

MEMO

TO: District Manager

FROM: Director of Operations

SUBJECT: OPERATIONS DEPARTMENT STATUS REPORT
APRIL 2019

DATE: MAY 16, 2019

RECOMMENDATION:

It is recommended that the District Manager review and file the Operations Department Project Status Report for the month of April 2019.

BACKGROUND:

BLUE TANK REPLACEMENT

Delivery and install of the new tank by Superior Tank Company is complete, District Staff is in the process of completing the plumbing of the tank to the distribution system. After plumbing is complete the tank will be disinfected and sampled to be put online. Once back online full fire flow will be restored in the Manana Woods area.

During routine inspection it was discovered that the Districts Blue Tank in Manana Woods has experienced extensive corrosion to the upper ring of staves, roof and internal roof structure system. In addition to corrosion the tank experienced buckling damage from the 1989 Loma Prieta Earthquake.

PROBATION TANK REPLACEMENT

The contractor is in full construction on the replacement of the Probation tank. The old redwood tank has been taken down and off site. The contractor has been doing grading and road repairs for access of heavy equipment to the tank site. Construction is expected to continue until October 2019.

The Old 100,000 gallon redwood tank at the probation site was in very poor condition and was leaking towards the end of its life at an estimated 35-40 gallons per minute. Temporary poly tanks were installed by District staff in the summer of 2018. The system is running on minimal storage through construction. The residents of this area have been cautioned to conserve water during this time.

FELTON LIBRARY MAIN LOWERING

District staff removed and lowered a 180 feet of 6 inch main line that was discovered to be very shallow at the Felton library location fronting the parcel.

During construction it was discovered that the Districts main line running along Gushee St. in Felton fronting the new library site was only 6 inches underground. With new sidewalks and construction going on it was in the Districts best interest to lower this main line to industry standards in this area.

PASO WELL #8

The new Paso Well #8 construction continues. Well head design has been approved by the State Water Resources Control Board. The District has been working with the concrete contractor to get pricing on the construction of the Well head pad and chlorination building.

Paso Well #8 is a replacement to Paso Well #6 that began splitting in its casing in 2015, which was allowing sand to overcome the pump and motor. Many attempts to fix and seal the casing on the Well were unsuccessful leading to full replacement of the Well.

PASO WELL #5A

After staff had been running multiple different scenarios of flushing and disinfection of this Well they have achieved collecting two consecutive passing samples. Staff was able to put the Well back online and in to the distribution system.

The District received multiple calls in the Scott's Valley area of brown and dirty water in December 2018. The water quality group found that Paso Well #5A was pumping sand and gravel. The Well was pulled and video of the Well was taken. There was an area found in the screens where there was sand and gravel coming through the gravel pack and screen. It is undetermined what caused the sand and smaller gravel to begin to come through the gravel pack and screens, could have been ground movement or the pump and motor hitting the side of the Well column during a start or stop.

SCADA (Supervisory control and data acquisition) UPGRADE

In April 2019 the new SCADA system was put in to live operation. The SCADA system will continue to be fine-tuned. With the new SCADA system up and operational District staff continues adjusting and making changes to the system.

The District is about 99% done with conversion of the new SCADA and HMI system. Our equipment and software were out of date and had been crashing needing restarting and rebooting several times a month, leading to this upgrade. District staff has been working with an outside contractor that was contracted to do the upgrade and replacement.

FELTON WATER SYSTEM WATER METER REPLACEMENT

Domestic water meters are being replaced as existing meters have reached their life expectancy. Meters are being changed to the new Beacon "Eye on Water" system that will allow customers to monitor their water usage over the internet.

MAINTENANCE ISSUES

Service Line Replacement Lompico
Service Line Replacement:
12120 Colman Ave.

Main Line Repairs
Replaced 30 feet of main line on San Lorenzo Ave. in Felton

System Wide
Constructed 60 feet of a 4 foot retaining wall on the Blue tank site
Hazel St. and River Rd. replaced two main line valves
Installed a production meter and pressure gauges at Sprig booster
Investigation of a sink hole at Gushee and Kirby St. Felton
Installed a new Badger 4 inch compound meter at SLV High School
Replaced a two inch valve on the back wash basins at Kirby Treatment Plant
Completed main line flushing
Remodeled the Engineering office in the Administrations building
Installed a backflow at 685 Fiddlesticks Rd. Ben Lomond
15+/- Mainline/Service Line Leaks Were Repaired.

James Furtado

Director of Operations

SAN LORENZO VALLEY WATER DISTRICT

PRODUCTION COMPARRISON

Source	April-18	March-18	April-13	Difference This Year To 2013
North System				
Surface Water Sources				
Foreman Creek	21,817,480	16,583,277	25,458,000	
Peavine Creek + Hydro	1,350,040	296,674	4,340,000	
Clear Creek	6,786,288	8,314,829	0	
Sweetwater Creek	4,524,192	5,543,220	0	
Sub-Total (Streams)	34,478,000	30,738,000	29,798,000	15.71%
Wells (North)				
Olympia No. 2	1,000	4,365,000	0	
Olympia No. 3	-	290,000	0	
Quail Well No. 4-A	516,000	924,000	5,506,000	
Quail Well No. 5-A	203,900	316,700	2,161,800	
Sub Total North Wells	720,900	5,895,700	7,667,800	-90.60%
South System Wells				
Pasatiempo 5A	7,093,700	5,869,500	N/A	
Pasatiempo 6	-	-	7,713,000	
Pasatiempo 7	-	-	2,456,000	
Sub Total Pasatiempo Wells	7,093,700	5,869,500	10,169,000	-30.24%
North South All Sources Combined	42,292,600	42,503,200	47,634,800	-11.21%
Felton System - Surface Water				
Fall Creek	4,366,435	3,741,598	8,284,270	
Bennett Spring	2,680,832	4,087,820	3,020,500	
Bull 1 & 2	822,052	1,608,200	3,561,900	
Total Felton System Sources	7,869,319	9,437,618	14,866,670	-47.07%
Manana Woods System				
Well 1	-	-	386,725	
Total Manana Woods Sources	-	-	386,725	
Sub - Total Production				
North / Felton / Manana	50,161,919	51,940,818	62,888,195	-20.24%
Surface	42,347,319	40,175,618	44,664,670	-5.19%
Wells	7,814,600	11,765,200	18,223,525	-57.12%
Total Surface Water Percentage	84.42	77.35	71.02	18.87%
Total Wells Percentage	15.58	22.65	28.98	-46.24%

**SAN LORENZO VALLEY WATER DISTRICT
PRODUCTION BY SYSTEM
+/- INTERTIES
April 2018**

North System All Sources	<u>42,292,600</u>
Interties IN +	<u>186,157</u>
Interties OUT -	<u>1,633,836</u>
TOTAL NORHT SYSTEM	<u>40,844,921</u>
Felton Water system All Sources	<u>7,869,319</u>
Interties IN +	<u>861,219</u>
Interties OUT -	<u>0</u>
TOTAL FELTON SYSTEM	<u>8,730,538</u>
Manana Woods System	
Manana Woods Well 1	<u>0</u>
Interties IN +	<u>402,816</u>
TOTAL MANANA WOODS	<u>402,816</u>

SAN LORENZO VALLEY WATER DISTRICT
INTERTIE USAGE
April 2018

INTERTIE 2

SLVWD to SVWD 0

SVWD to SLVWD 0

INTERTIE 3

SLV SOUTH to SLV NORTH 186,157

SLV NORTH to SLV SOUTH 772,617

INTERTIE 4

SLVWD to MHWD 0

MHWD to SLVWD 0

INTERTIE 6

SLV NORTH to SLV FELTON 861,219

SLV FELTON to SLV NORTH -

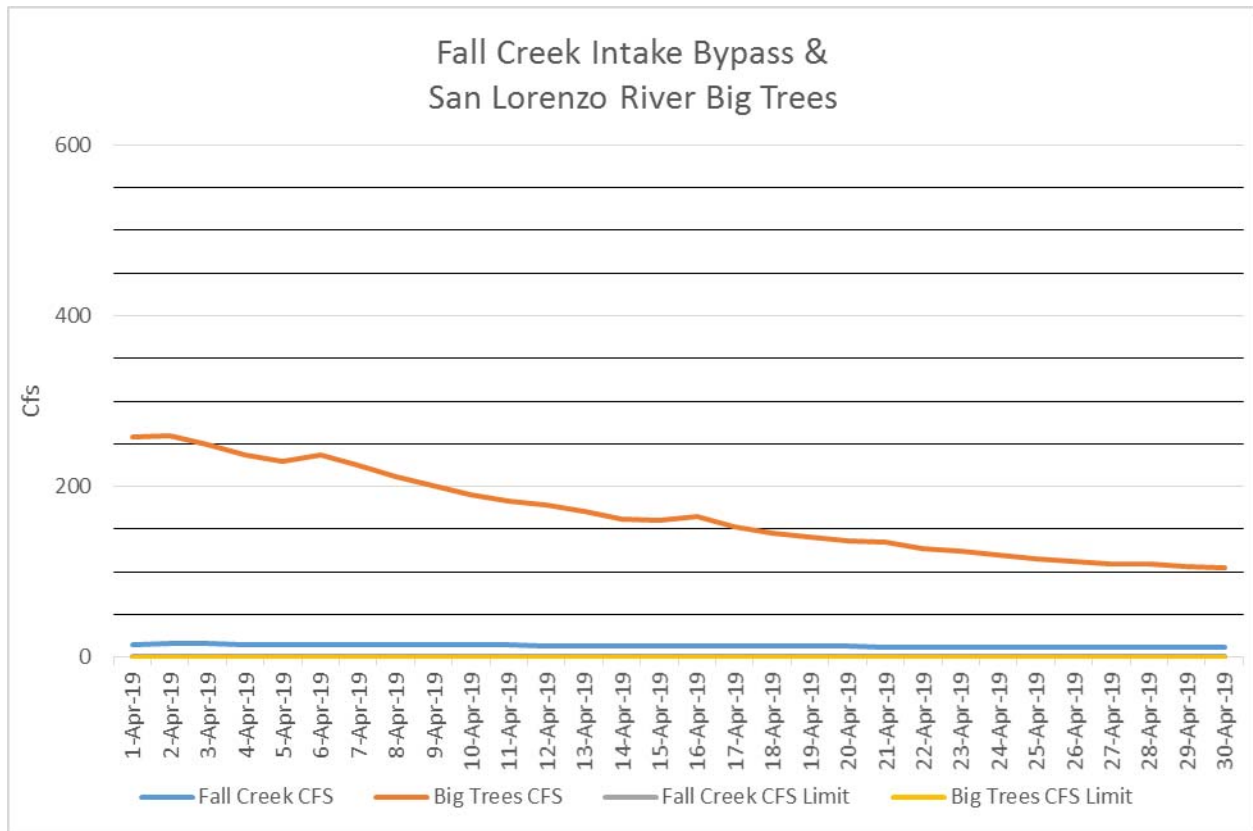
LOMPICO INTERTIE

SLV NORTH to LOMPICO

MANANA WOODS INTERTIE

SLVWD to MANANA WOODS

Fall Creek Intake April 2019



Normal Rainfall Fall Creek Intake Bypass Requirements

April 1 through October 31 1.0 cubic feet per second

November 1 through March 31 1.5 cubic feet per second

Dry Conditions Fall Creek Intake Bypass Requirements

April 1 through October 31 0.5 cubic feet per second

November 1 through March 31 0.75 cubic feet per second

Number of Days in month 0.5 cfs or below, ZERO days

San Lorenzo River USGS Big Trees Flow Requirements

September 11 cubic feet per second

October 26 cubic feet per second

November 1 through May 31 21 cubic feet per second

June - August No Requirements

Fall Creek Intake April 2019

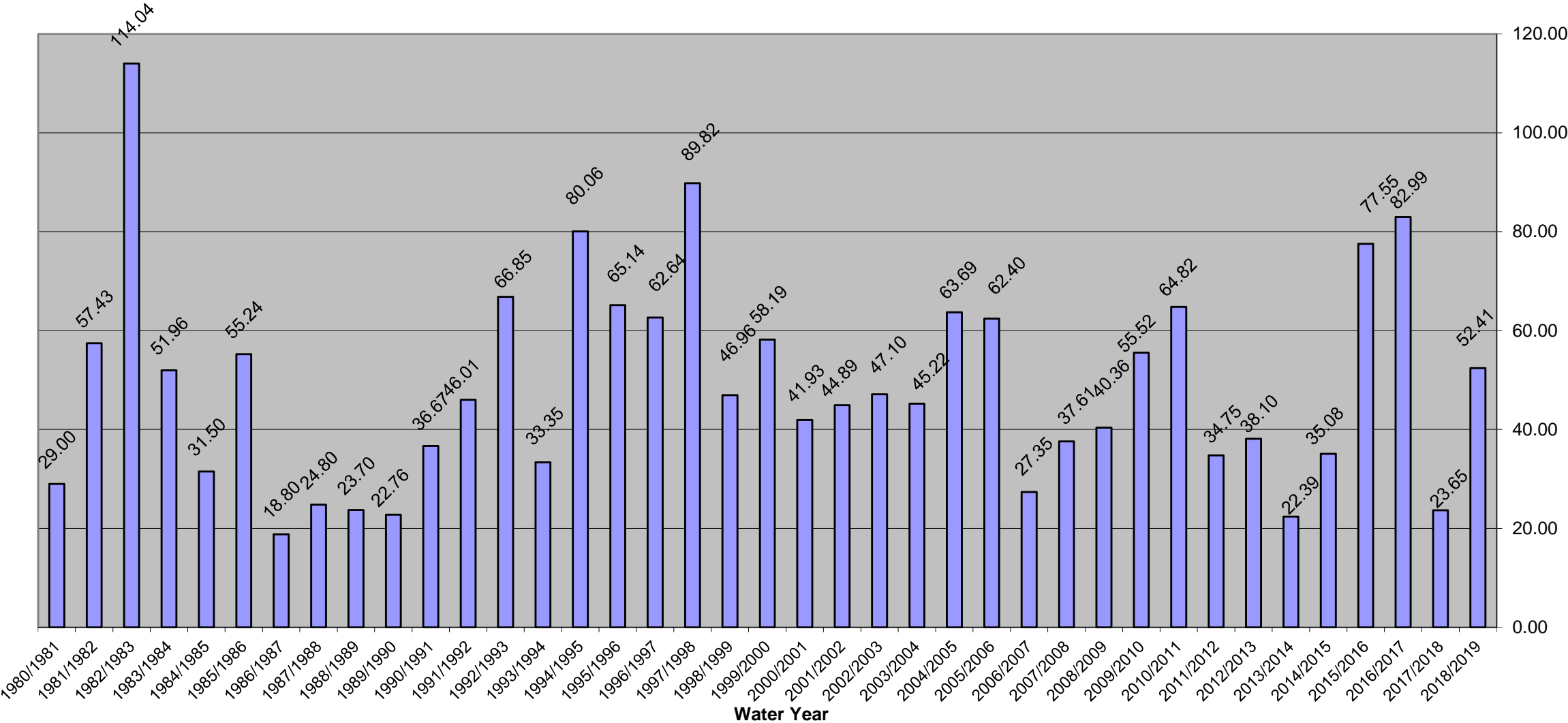
For the protection of fish and wildlife, during the period: (a) April 1 through October 31 bypass a minimum of 0.5 cfs; (b) November 1 through March 31 bypass a minimum of 1.5 cfs past the Fall Creek point of diversion. The natural streamflow shall be bypassed whenever it is less than 1.5 cfs; provided, however, that during a dry year, the bypass requirement shall be reduced from 1.5 to 0.75 cfs. A dry year is defined on a monthly basis of cumulative runoff beginning October 1 of each season in the San Lorenzo River at the USGS gage at Big Trees. These runoff figures are based on approximately 50 percent of normal runoff as the dividing level between normal and dry year runoff and are as follows:

- November 1 for the month of October 500 af
- December 1 for October-November, inclusive 1,500 af
- January 1 for October-December, inclusive 5,000 af
- February 1 for October-January, inclusive 12,500 af
- March 1 for October-February, inclusive 26,500 af

Fall Creek Weir Measurement											
	Month:	April		Year:	2019	Big Trees > 26,500 Acre-ft Oct-Feb Normal Year			Big Trees <26,500 Acre-ft Oct-Feb Dry Year		
								<input checked="" type="checkbox"/>			<input type="checkbox"/>
Date	Time	Initials	Pump #	Fall Cr. GPM into Kirby plant	Weir Board Height (inches)	Fall Creek Bypass (CFS)	Big Trees Bypass (CFS)	Rainfall (Felton gauge)	Met Fall Cr, Bypass Requirement: Normal Year April 1 - Oct 31 1.0 cfs; Nov 1 - March 31 1.5 cfs Dry Year April 1 - Oct 31 0.5 cfs Nov. 1 - March 31 0.75 cfs (yes/no)	Met Big Trees Requirement Nov-May 20cfs Sept 10 cfs Oct 25 cfs (yes/no)	Notes
1	0744	SS	1	106	25	15.1	258	0	Yes	Yes	
2	0745	JG	1	0	25	15.88	260	0.45	Yes	Yes	Plant Off
3	1110	TH	1	101	25	15.49	249	0.15	Yes	Yes	
4	0730	JG	1	85	25	15.32	237	0.05	Yes	Yes	
5	0745	SS	1	80	25	15.15	229	0.04	Yes	Yes	
6	1245	JG	1	82	25	15.33	237	0.50	Yes	Yes	
7	0920	JG	1	75	25	15.29	225	0	Yes	Yes	
8	0900	KS	1	74	25	15.02	211	0	Yes	Yes	
9	0800	SS	1	145	25	14.78	201	0	Yes	Yes	
10	1010	SS	1	133	25	14.33	190	0	Yes	Yes	
11	0830	KS	1	70	25	14.01	183	0	Yes	Yes	
12	0730	SS	1	90	25	13.83	178	0	Yes	Yes	
13	1000	HO	1	85	25	13.62	171	0	Yes	Yes	
14	0945	HO	1	83	25	13.44	162	0	Yes	Yes	
15	0800	SS	1	113	25	13.18	160	0	Yes	Yes	
16	0800	JG	1	61	25	13.44	165	0.30	Yes	Yes	
17	0800	JG	1	85	25	12.94	153	0	Yes	Yes	
18	0800	SS	1	77	25	12.87	146	0	Yes	Yes	
19	0750	SS	1	80	25	12.60	141	0	Yes	Yes	
20	0720	KS	1	58	25	12.54	137	0	Yes	Yes	
21	0730	KS	1	84	25	12.23	135	0	Yes	Yes	
22	0735	SS	1	102	25	12.13	128	0	Yes	Yes	
23	0805	SS	1	101	25	12.04	125	0	Yes	Yes	
24	1030	KS	1	87	25	11.82	120	0	Yes	Yes	
25	0900	KS	1	65	25	11.76	116	0	Yes	Yes	
26	0730	JG	1	80	25	11.48	113	0	Yes	Yes	
27	0910	HO	1	98	25	11.40	109	0	Yes	Yes	
28	0935	HO	1	105	25	11.41	109	0	Yes	Yes	

[illegible]

San Lorenzo Valley Water District
Annual Rainfall History Graph



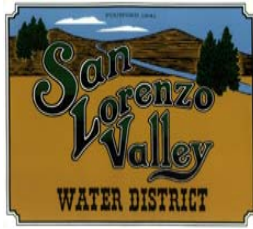
SAN LORENZO VALLEY WATER DISTRICT
MONTHLY RAINFALL DATA SUMMARY
DATA COLLECTED AT SLVWD OFFICE 13060 HIGHWAY 9, BOULDER CREEK

WATER YEAR 2018/2019

<u>Date</u>	<u>Oct-18</u>	<u>Nov-18</u>	<u>Dec-18</u>	<u>Jan-19</u>	<u>Feb-19</u>	<u>Mar-19</u>	<u>Apr-19</u>	<u>May-19</u>	<u>Jun-19</u>	<u>Jul-19</u>	<u>Aug-19</u>	<u>Sep-19</u>	<u>Total</u>
1	0.00	0.00	0.18	0.00	0.78	0.06	0.03	0.00	0.00	0.00	0.00	0.00	1.05
2	0.00	0.00	0.01	0.00	2.94	1.24	0.33	0.00	0.00	0.00	0.00	0.00	4.52
3	0.00	0.00	0.00	0.00	1.15	0.09	0.00	0.00	0.00	0.00	0.00	0.00	1.24
4	0.01	0.00	0.24	0.00	1.76	0.01	0.00	0.00	0.00	0.00	0.00	0.00	2.02
5	0.00	0.00	0.26	1.39	0.33	0.51	0.33	0.00	0.00	0.00	0.00	0.00	2.82
6	0.00	0.00	0.00	4.51	0.01	2.21	0.03	0.00	0.00	0.00	0.00	0.00	6.76
7	0.00	0.00	0.01	0.00	0.01	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.09
8	0.00	0.00	0.00	0.23	0.74	0.06	0.00	0.00	0.00	0.00	0.00	0.00	1.03
9	0.00	0.00	0.01	0.62	0.58	0.69	0.00	0.00	0.00	0.00	0.00	0.00	1.90
10	0.00	0.00	0.00	0.00	0.38	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.73
11	0.00	0.00	0.01	0.47	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50
12	0.00	0.00	0.00	0.01	0.26	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.28
13	0.00	0.00	0.01	0.00	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.61
14	0.00	0.00	0.00	0.15	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.63
15	0.00	0.00	0.01	2.44	0.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.10
16	0.00	0.00	1.77	2.41	0.49	0.01	0.01	0.00	0.00	0.00	0.00	0.00	4.69
17	0.00	0.00	0.20	0.48	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.85
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.03
20	0.00	0.00	0.00	0.47	0.01	0.96	0.00	0.00	0.00	0.00	0.00	0.00	1.44
21	0.00	1.72	0.01	0.02	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	1.76
22	0.00	0.99	0.01	0.01	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	1.10
23	0.00	0.82	0.00	0.00	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	1.16
24	0.00	0.04	0.55	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.60
25	0.00	0.00	0.08	0.01	0.01	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.78
26	0.00	0.00	0.01	0.01	1.84	0.12	0.00	0.00	0.00	0.00	0.00	0.00	1.98
27	0.00	0.26	0.00	0.00	1.97	0.64	0.00	0.00	0.00	0.00	0.00	0.00	2.87
28	0.00	1.72	0.00	0.00	<u>0.02</u>	0.11	0.00	0.00	0.00	0.00	0.00	0.00	1.85
29	0.00	1.33	0.00	0.00		0.01	0.00	0.00	0.00	0.00	0.00	0.00	1.34
30	0.00	<u>0.00</u>	0.00	0.23		0.00	<u>0.00</u>	0.00	0.00	0.00	0.00	<u>0.00</u>	0.23
31	<u>0.00</u>		<u>0.00</u>	<u>0.45</u>		<u>0.00</u>		0.00		<u>0.00</u>	<u>0.00</u>		<u>0.45</u>
TOTAL	0.01	6.88	3.37	13.92	19.21	8.29	0.73	0.00	0.00	0.00	0.00	0.00	52.41

WATER YEAR 2017/2018

<u>Date</u>	<u>Oct-17</u>	<u>Nov-17</u>	<u>Dec-17</u>	<u>Jan-18</u>	<u>Feb-18</u>	<u>Mar-18</u>	<u>Apr-18</u>	<u>May-18</u>	<u>Jun-18</u>	<u>Jul-18</u>	<u>Aug-18</u>	<u>Sep-18</u>	<u>Total</u>
1	0.00	0.00	0.01	0.00	0.01	2.44	0.00	0.00	0.00	0.00	0.00	0.00	2.46
2	0.00	0.00	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00	0.00	0.00	0.55
3	0.00	0.15	0.03	0.40	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.77
4	0.00	0.03	0.00	0.20	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.24
5	0.00	0.00	0.00	0.38	0.01	0.01	0.30	0.00	0.00	0.00	0.00	0.00	0.70
6	0.00	0.01	0.00	0.10	0.00	0.00	1.26	0.00	0.00	0.00	0.00	0.00	1.37
7	0.00	0.00	0.01	0.01	0.00	0.00	0.86	0.00	0.00	0.00	0.00	0.00	0.88
8	0.00	0.58	0.00	3.66	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	4.28
9	0.00	0.79	0.01	0.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.41
10	0.00	0.06	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08
11	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.25
12	0.00	0.00	0.01	0.00	0.00	0.56	0.08	0.00	0.00	0.00	0.00	0.00	0.65
13	0.00	0.08	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.98
14	0.00	0.00	0.01	0.01	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.32
15	0.00	0.12	0.00	0.01	0.00	0.67	0.08	0.00	0.00	0.00	0.00	0.00	0.88
16	0.00	2.46	0.01	0.00	0.00	0.27	0.25	0.00	0.00	0.00	0.00	0.00	2.99
17	0.00	0.02	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.15
18	0.00	0.01	0.00	0.16	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18
19	0.05	0.01	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08
20	0.16	0.00	0.14	0.01	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.64
21	0.00	0.00	0.01	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
22	0.00	0.01	0.01	0.57	0.06	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.98
23	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.04
24	0.00	0.00	0.00	0.59	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.60
25	0.00	0.01	0.00	0.06	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.11
26	0.00	0.76	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.06
27	0.00	0.45	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.46
28	0.00	0.01	0.00	0.01	<u>0.43</u>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.45
29	0.00	0.00	0.01	0.01		0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.03
30	0.00	<u>0.01</u>	0.01	0.00		0.00	<u>0.00</u>	0.00	0.00	0.00	0.00	<u>0.00</u>	0.02
31	<u>0.00</u>		<u>0.00</u>	<u>0.00</u>		<u>0.00</u>		0.00		<u>0.00</u>	<u>0.00</u>		<u>0.00</u>
TOTAL	0.21	5.57	0.29	6.81	0.86	6.78	3.09	0.04	0.00	0.00	0.00	0.00	23.65

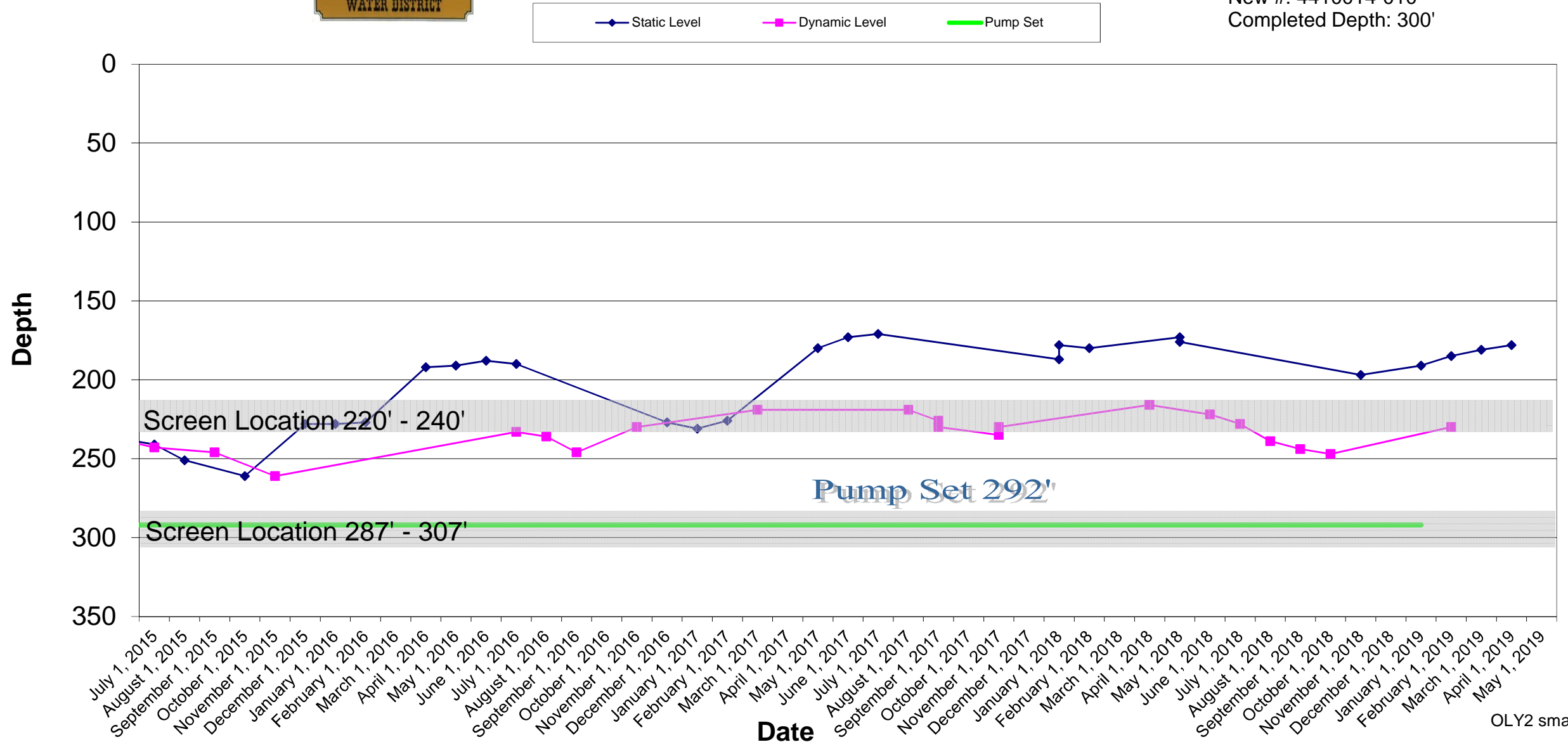


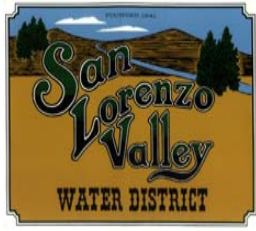
SAN LORENZO VALLEY WATER DISTRICT

Well Drawdown Report

Olympia 2

Location: 7701 E. Zayante Rd.
Elevation: 525'
Installed: April 28, 1980
State Well #:10S/O2W-11P01
New #: 4410014-010
Completed Depth: 300'



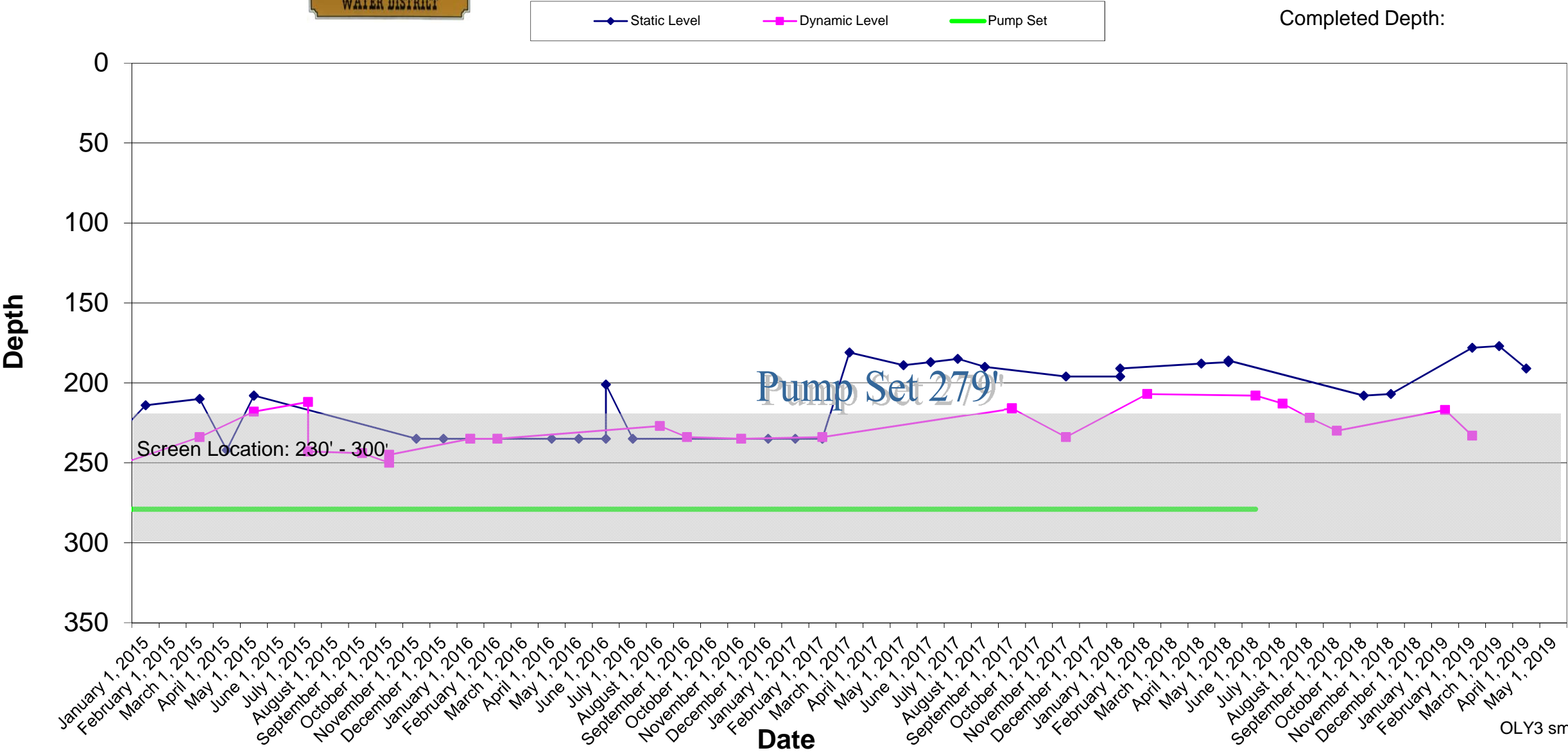


SAN LORENZO VALLEY WATER DISTRICT

Well Drawdown Report

Olympia 3

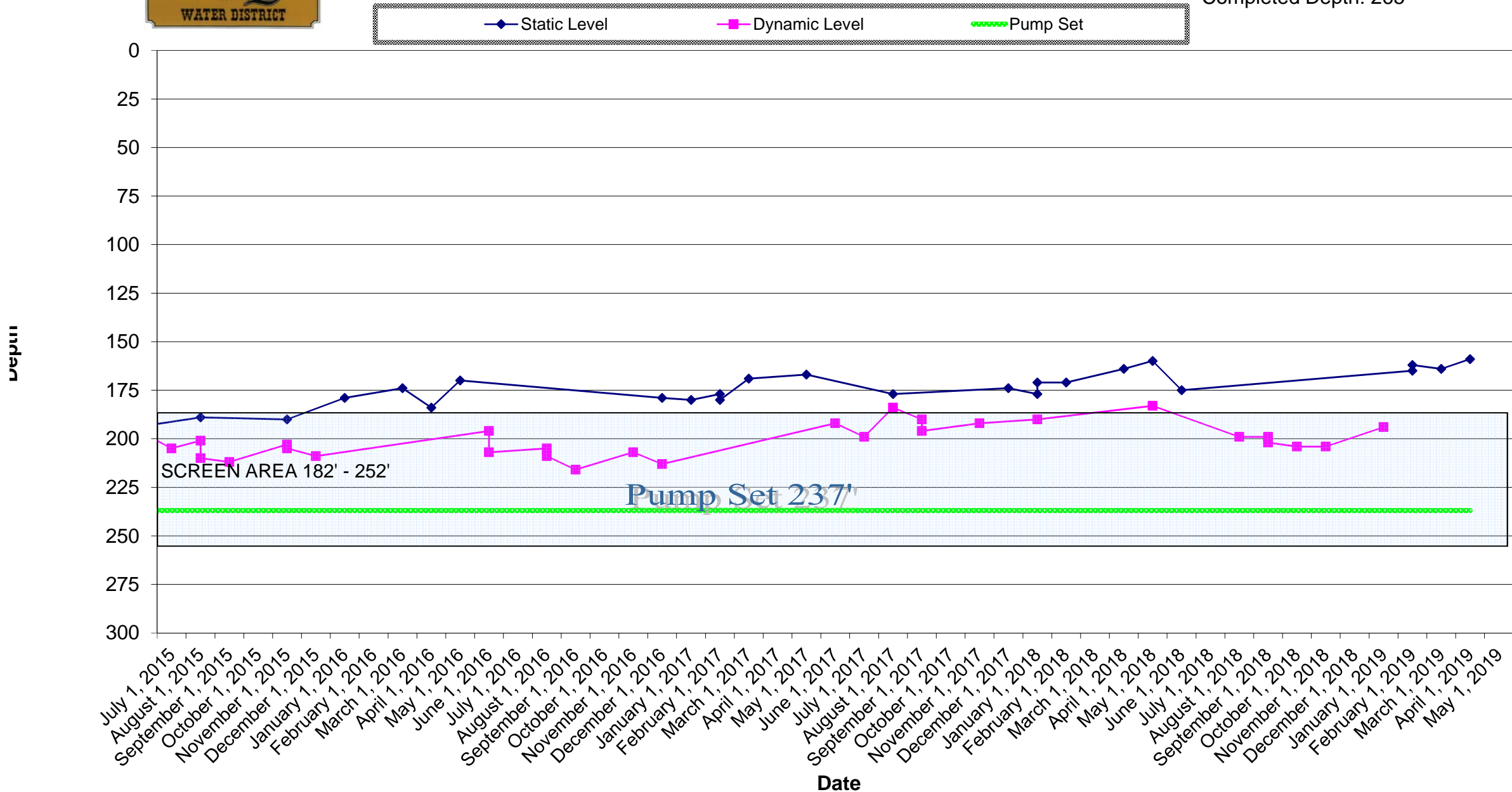
Location: 7701 E. Zayante Rd
Elevation: 538' Mean Sea Level
Installed: 8-15-90
State Well #: 4410014-022
Completed Depth:

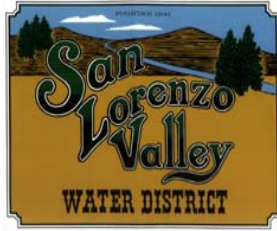




SAN LORENZO VALLEY WATER DISTRICT
Well Drawdown Report
Quail Well 4-A

Location: Cumora Ln. Ben Lomond
Elevation: 596.54 ft @ Pad
Installed: 6-07-2001
State Well #: 4410014-026
Completed Depth: 265



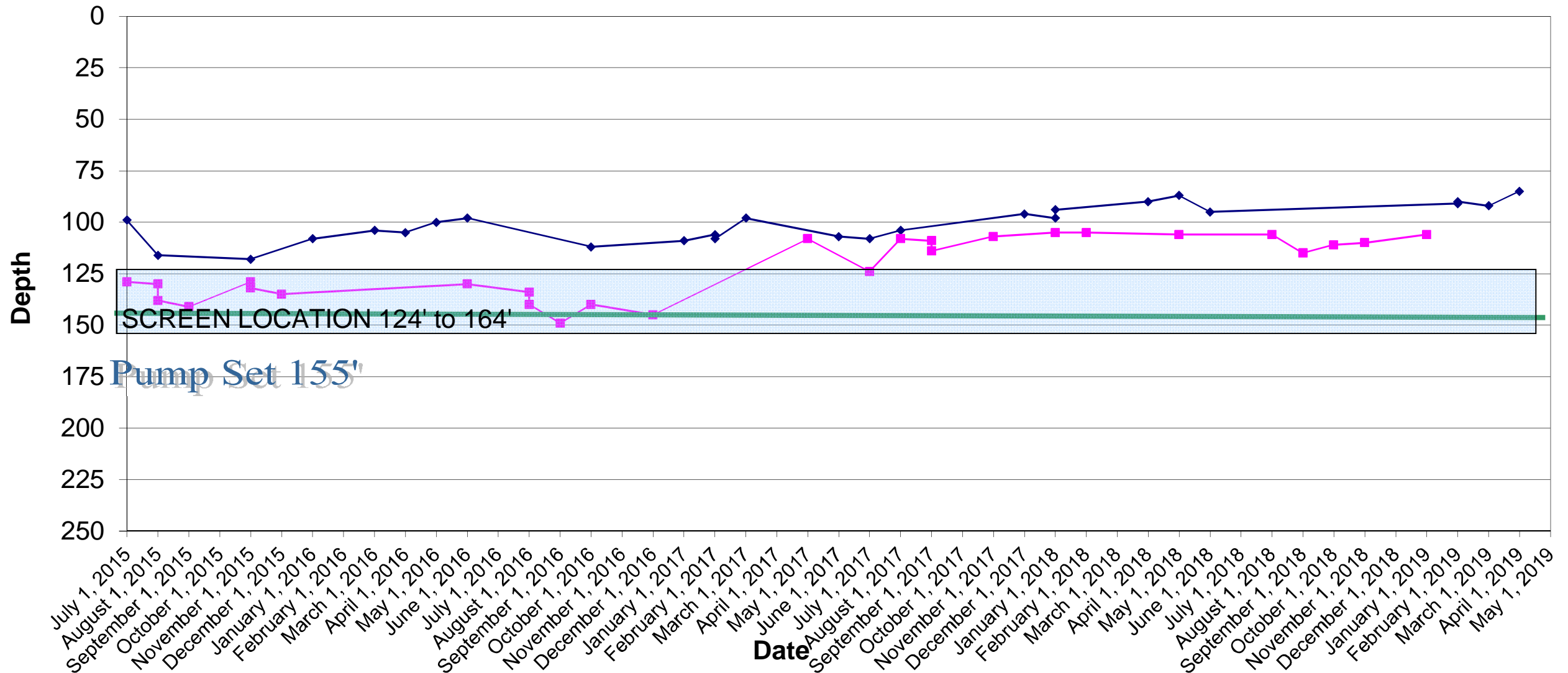
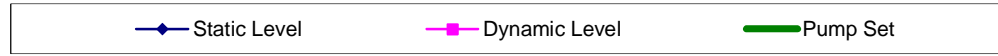


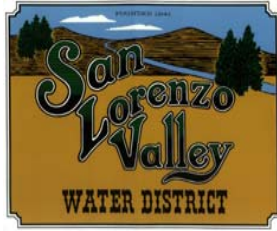
SAN LORENZO VALLEY WATER DISTRICT

Well Drawdown Report

Quail Well 5-A

Location: 1161 Quail Hollow Rd.
Ben Lomond
Elevation: 517.65 ft. @ Pad
Installed: March 2000
State Well #: 4410014-025
Completed Depth: 174'



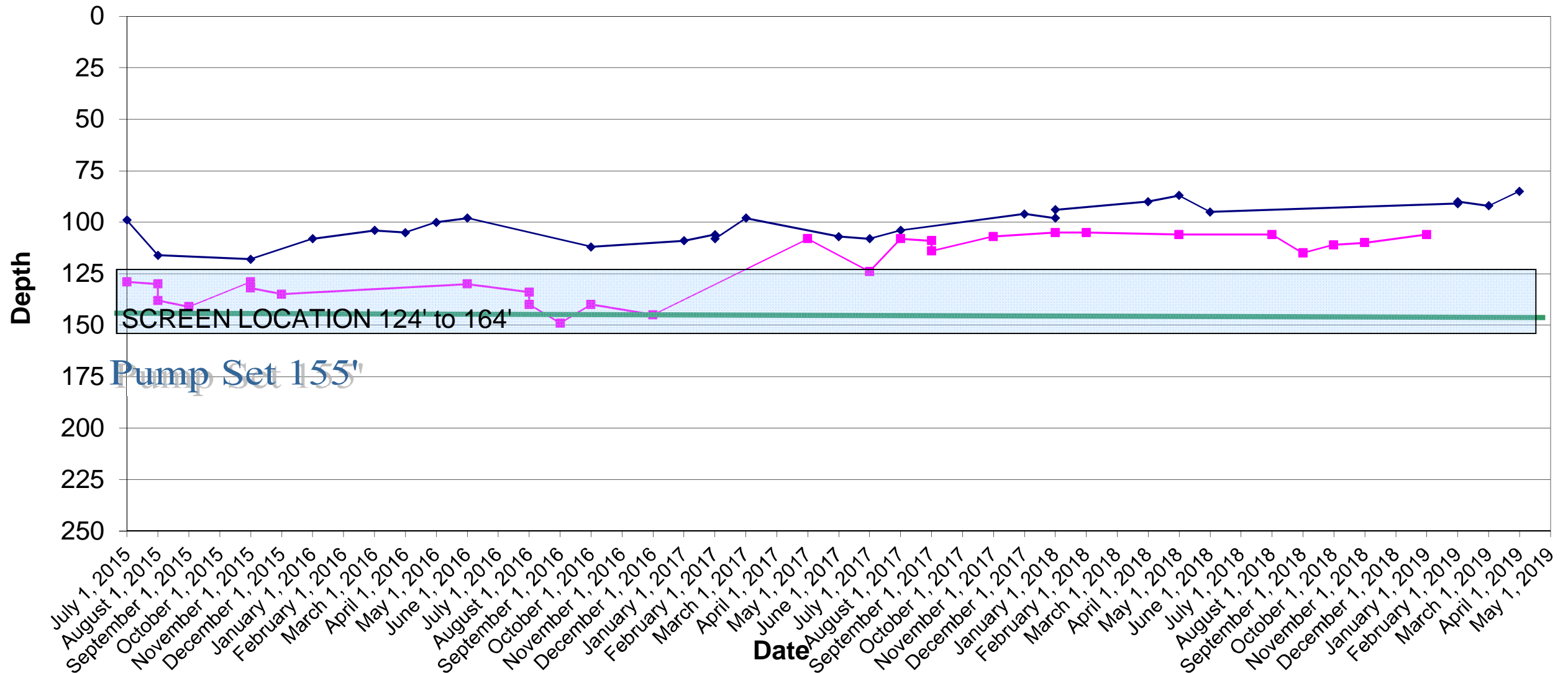
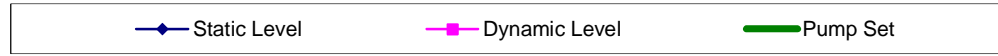


SAN LORENZO VALLEY WATER DISTRICT

Well Drawdown Report

Quail Well 5-A

Location: 1161 Quail Hollow Rd.
Ben Lomond
Elevation: 517.65 ft. @ Pad
Installed: March 2000
State Well #: 4410014-025
Completed Depth: 174'



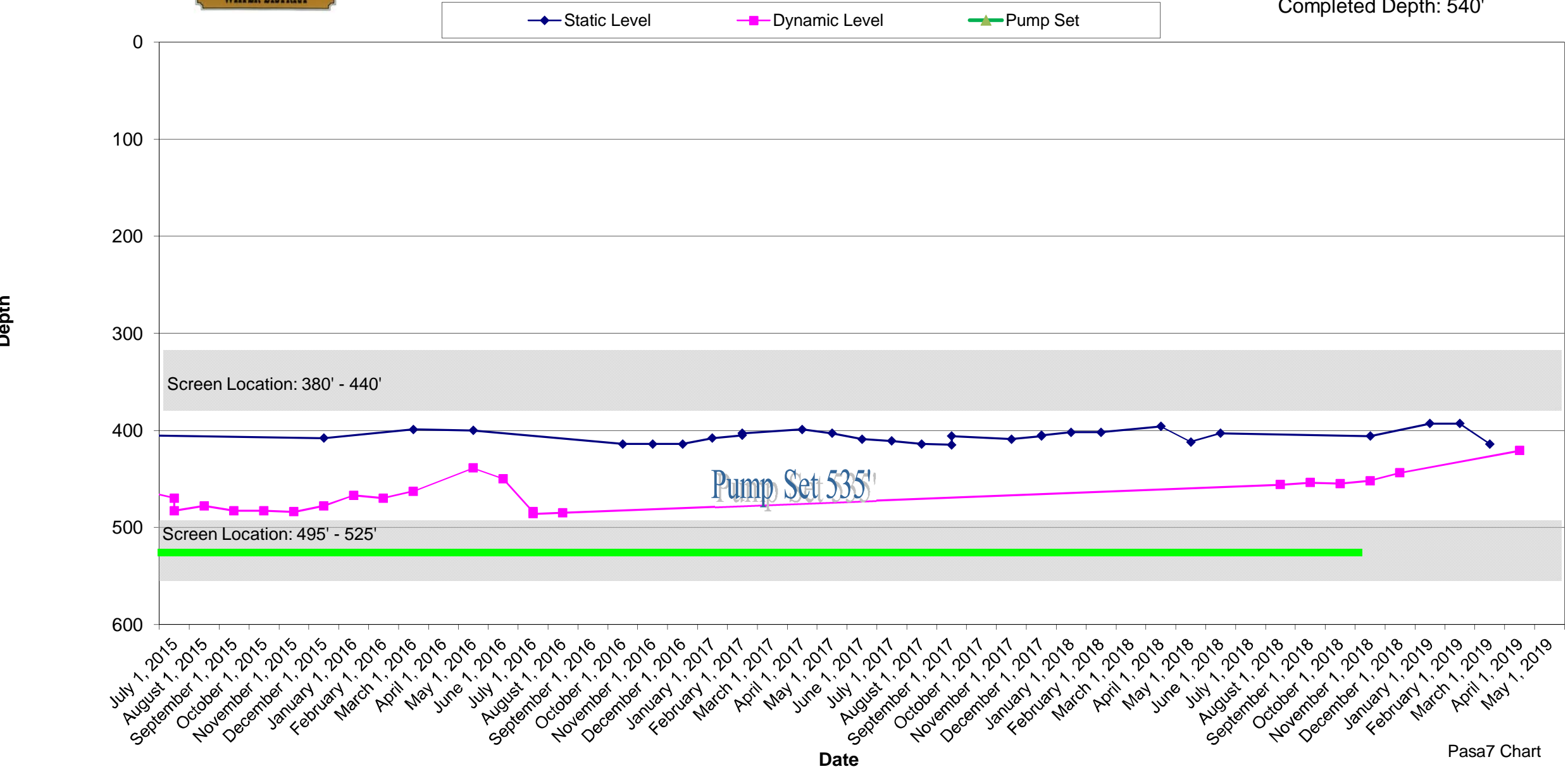


SAN LORENZO VALLEY WATER DISTRICT

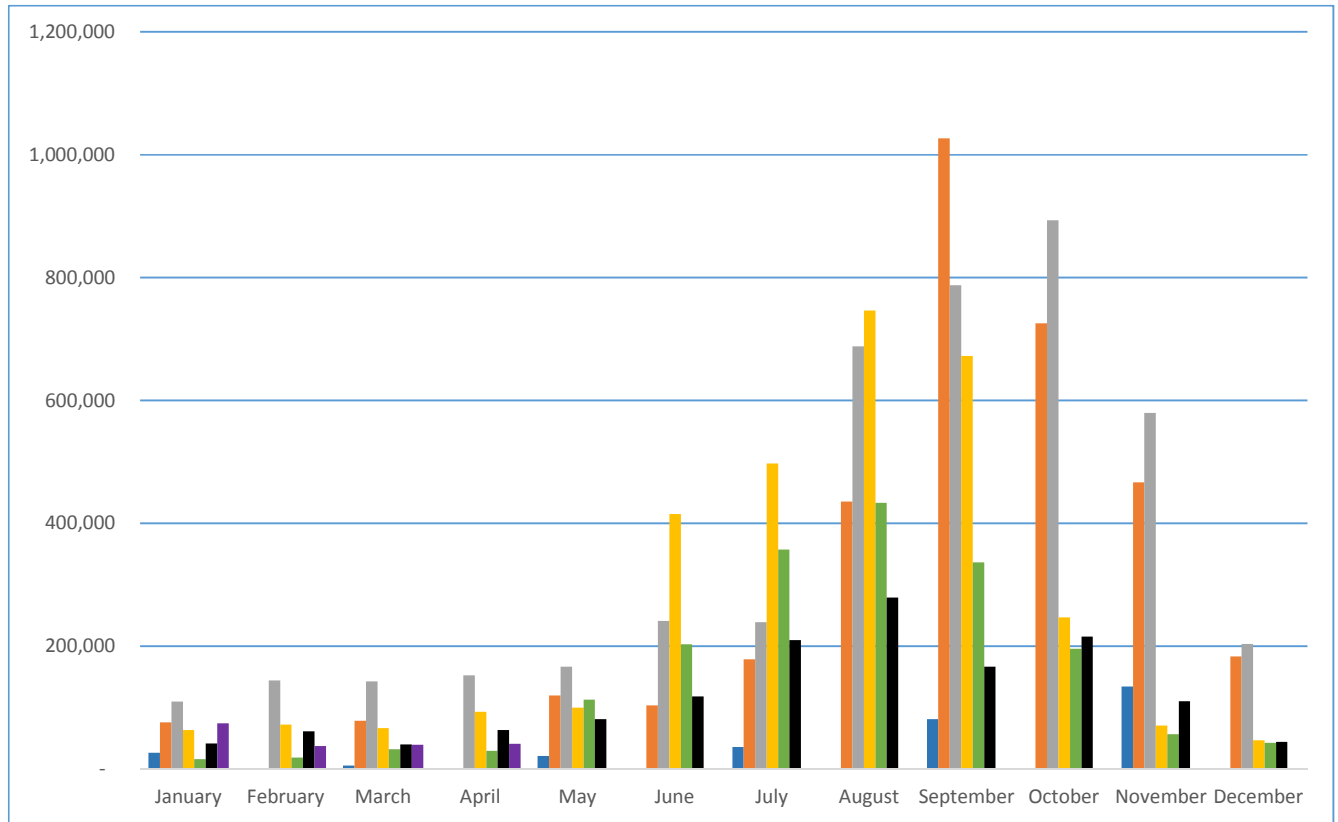
Well Drawdown Report

Pasatiempo 7

Location: South of Probation
Center
Elevation: 734' MSL
Installed: July 21, 1990
State Well #: 4410014-024
Completed Depth: 540'



SAN LORENZO VALLEY WATER DISTRICT
BULK WATER SALES
GALLONS
April 2019



<u>Month</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>
January	26,928	76,296	109,965	63,850	16,456	41,888	74,800
February			144,364	72,556	18,700	61,366	37,400
March	5,984	78,540	142,868	66,572	32,164	40,392	39,644
April			152,592	93,500	29,920	63,580	41,140
May	21,692	119,680	166,804	100,232	112,948	81,532	
June		103,972	240,983	415,140	203,179	118,184	
July	35,904	178,772	239,360	497,420	357,544	210,188	
August		435,336	688,160	746,504	433,092	279,004	
September	81,352	1,026,256	787,644	672,183	336,570	166,804	
October		725,560	893,112	246,840	195,976	215,424	
November	134,640	466,752	579,700	71,060	56,848	110,704	
December		183,260	203,456	47,124	42,636	44,132	
Totals	306,500	3,394,424	4,349,008	3,092,981	1,836,033	1,433,198	192,984

SAN LORENZO VALLEY WATER DISTRICT
MONTHLY LEAK REPORT
April 2019

Leak Type	Location - NORTH SYSTEM	Town	Gallons Lost
400 MAIN LEAKING	135 MADRONE WAY	BEN LOMOND	120
400 MAIN LEAKING	135 MADRONE WAY	BEN LOMOND	2520
400 MAIN LEAKING	SCINIC WAY/HILLCREST	BEN LOMOND	240
400 MAIN LEAKING	8945 REDWOOD	BEN LOMOND	9,360
400 MAIN LEAKING	LOVE CREEK	BEN LOMOND	56,160
400 MAIN LEAKING	822 RIVER DR.	BOULDER CREEK	1,440
400 MAIN LEAKING	230 APPLE KNOLL	BOULDER CREEK	200
400 MAIN LEAKING	FAIRVIEW SOUTH SIDE OF BRIDGE	BOULDER CREEK	200
400 MAIN LEAKING	635 SUNSET RD	BOULDER CREEK	720
400 MAIN LEAKING	CORNER OF JANITA RD. APPLE KNOLL	BOULDER CREEK	4,320
400 MAIN LEAKING	206 MADRONA	BOULDER CREEK	25,900
400 MAIN LEAKING	225 BRIER DRIVE	BOULDER CREEK	17,280
400 MAIN LEAKING	635 SUNSET RD	BOULDER CREEK	100
400 MAIN LEAKING	SHILOH CT	BOULDER CREEK	23,040
400 MAIN LEAKING	RIVERSIDE & ANNIES WAY	BROOKDALE	2,520
Total North			144,120
FELTON SYSTEM			
412 TANK LEAKING	981 MADRONA DR.	FELTON	76,500
400 MAIN LEAKING	12120 COLEMAN AVE	FELTON	4,320.00
Total Felton			80,820
LOMPICO			
400 MAIN LEAKING	10825 LAKE BLVD	LOMPICO	100
Total Lompico			100
SCOTTS VALLEY			
Total Scotts Valley			-
Total All Systems			225,040

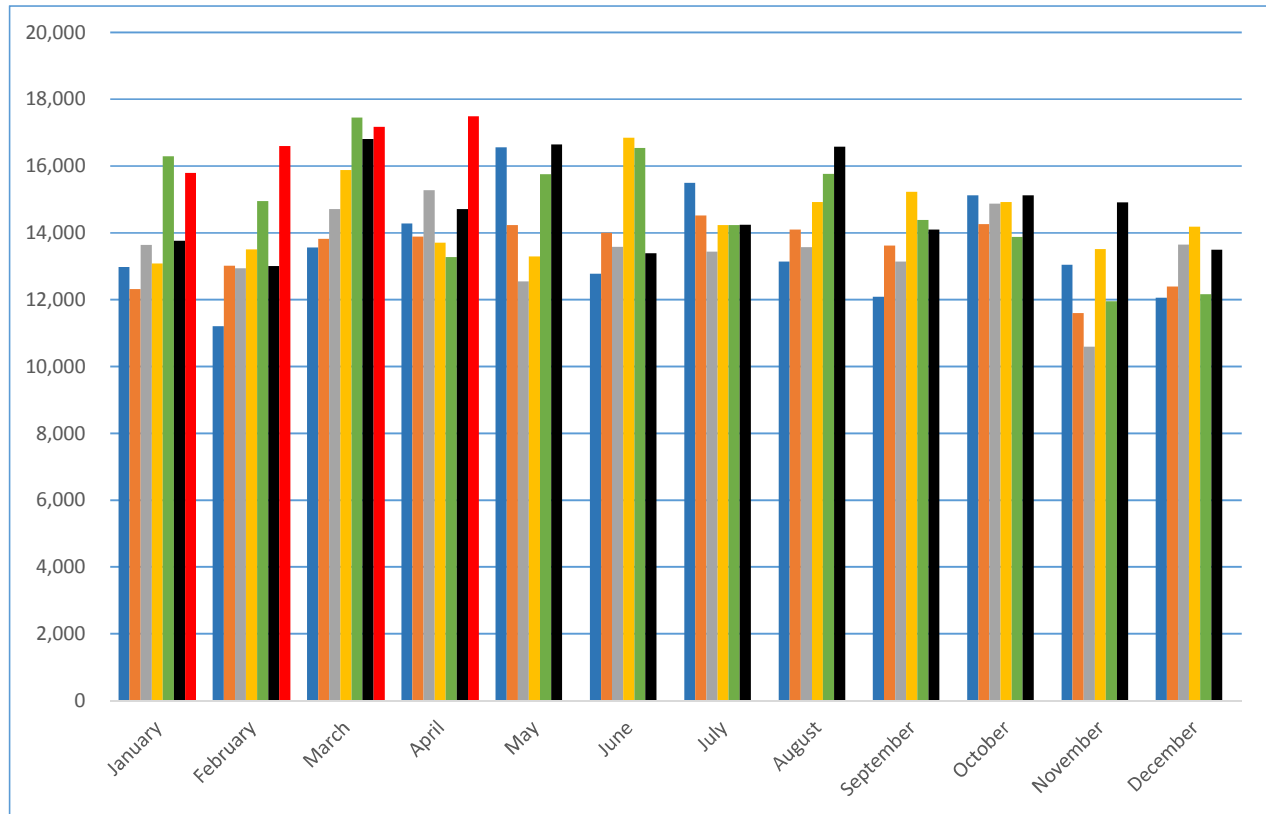
SLV Monthly Water Quality Service Order Summary

				Water Quality Complaint List						
Date Received	Type Of Complaint							Address	Conclusion	System
	Taste/ Odor	Color	Turbidity/ Particles	Worms/ Other Visible Organisms	Pressure (High/Low)	Illness (Waterborne)	Other (Specify)			
4/1/2019	X						Customer stated that water had a strong chlorine odor.	182 Russell Dr	Upon investigation by SLVWD staff at customers residence, water quality results appeared to be normal and within range at customers front hose bib. Free chlorine was 0.9 mg/L. Customer was notified of results.	SLVWD-Felton
4/2/2019		X					Customer noticed reddish/brown water on the evening of 4/1/2019	870 Madrona Dr	Upon investigation by SLVWD staff at customers residence, water quality results appeared to be normal and within range at customers front hose bib. Free chlorine was 0.8 mg/L, turbidity was 1.2 NTU and no color was detected in the water in a field visual examination. Customer was asked to collect a sample if the colored water returns.	SLVWD-Felton
4/18/2019	X						Customer states that water has smelled like plastic or playdough for last few weeks	615 Robinhoods Hollow	Upon investigation by SLVWD staff, water quality results were normal and within range at customers front hose bib. Free chlorine was 0.9 mg/L and only a slight chlorine odor was noticed in field odor sample. Notified customer of results and instructed customer to flush all internal plumbing if odor is still detected.	SLVWD-North
4/23/2019		X					Customer states that water appears murky after filling hot tub.	250 Fox Ct	Upon investigation by SLVWD staff, water quality results were normal and within range at customers front hose bib. Free chlorine was 0.6 mg/L, turbidity was 0.88 NTU and the water visually was running clear. It was determined that the source of the murky water was located somewhere within the hot tub components. Customer was advised to contact a spa technician..	SLVWD-North

SAN LORENZO VALLEY WATER DISTRICT

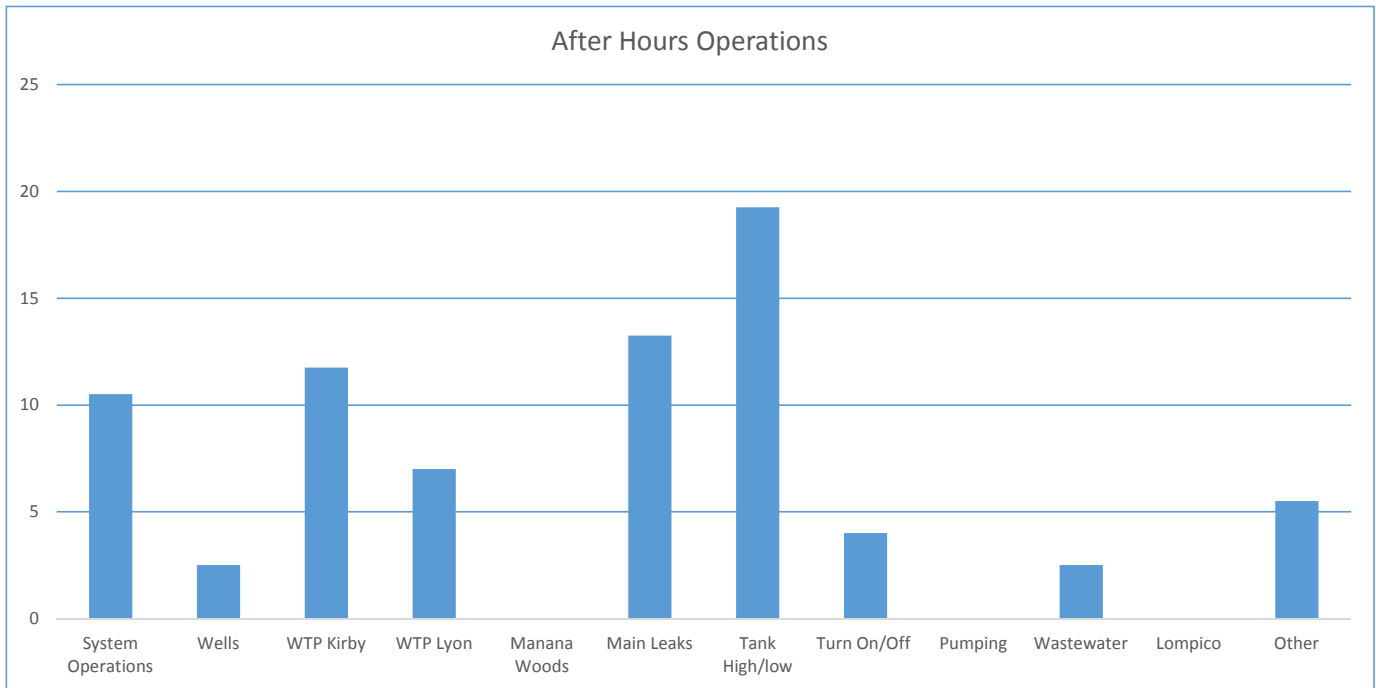
VEHICLE MILEAGE

April 2019



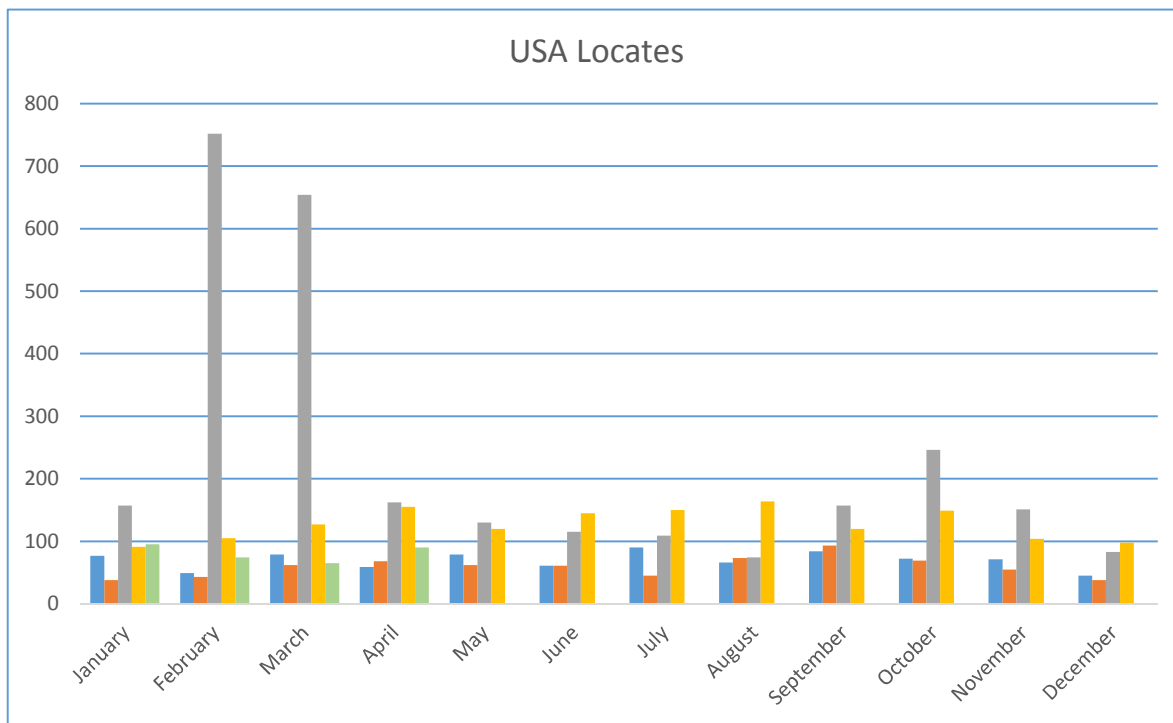
<u>Month</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>
January	12,976	12,317	13,633	13,082	16,286	13,763	15,790
February	11,201	13,015	12,934	13,505	14,945	13,003	16,599
March	13,558	13,817	14,714	15,882	17,451	16,809	17,167
April	14,283	13,883	15,279	13,704	13,270	14,711	17,488
May	16,560	14,228	12,550	13,290	15,757	16,646	
June	12,780	14,000	13,582	16,841	16,534	13,390	
July	15,497	14,519	13,441	14,228	14,229	14,242	
August	13,136	14,096	13,569	14,923	15,761	16,576	
September	12,087	13,622	13,137	15,229	14,388	14,094	
October	15,120	14,261	14,868	14,924	13,880	15,126	
November	13,046	11,594	10,591	13,510	11,952	14,908	
December	12,060	12,394	13,648	14,187	12,158	13,492	
Totals	162,304	161,746	161,946	173,305	176,611	176,760	67,044

SAN LORENZO VALLEY WATER DISTRICT
OPERATIONS DEPARTMENT
 April 2019



<u>Description</u>	<u>Hours</u>		<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>
System Operations	10.5	January	N/A	145.00	280.75	90.50	96.50
Wells	2.5	February	N/A	86.50	192.25	72.00	180.00
WTP Kirby	11.75	March	N/A	153.75	105.75	80.25	106.25
WTP Lyon	7	April	82.50	72.00	128.75	19.00	76.25
Manana Woods	0	May	104.75	49.25	132.75	105.5	
Main Leaks	13.25	June	172.50	83.25	112.75	89.00	
Tank High/low	19.25	July	124.25	80.25	162.00	145.25	
Turn On/Off	4	August	111.75	81.25	141.25	134.5	
Pumping	0	September	230.25	175.00	201.25	155.25	
Wastewater	2.5	October	128.25	78.50	104.00	111.5	
Lompico	0	November	114.25	96.25	122.50	197.5	
Other	5.5	December	186.25	130.75	134.00	220.25	
Total	76.25		1254.75	1231.75	1818.00	1420.50	459.00

SAN LORENZO VALLEY WATER DISTRICT
OPERATIONS DEPARTMENT
 April 2019



<u>Month</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>
January	77	38	157	91	95
February	49	43	752	105	74
March	79	62	654	127	65
April	59	68	162	155	90
May	79	62	130	120	
June	61	61	115	145	
July	90	45	109	150	
August	66	73	74	164	
September	84	93	157	120	
October	72	69	246	149	
November	71	55	151	104	
December	45	38	83	98	
Total to Date	832	707	2,790	1528	324

