

MEMO

TO: District Manager

FROM: Director of Operations

SUBJECT: OPERATIONS DEPARTMENT STATUS REPORT
MAY 2020

DATE: June 18, 2020

RECOMMENDATION:

It is recommended that the District Manager review and file the Operations Department Project Status Report for the month of May 2020.

BACKGROUND:

COVID 19

Due to the continued pandemic, staff has been isolated and working separately out of District Vehicles, and separated into two crews. The District has an essential responsibility to keep safe drinking water flowing to the tap. Staff has continued to operate the water system in a safe manner.

GENERATORS

Staff is in the process of installing and putting into service stand-by generators and propane tanks to supply power to five additional sites throughout the District. With an addition of four mobile generators that will be able to be deployed to multiple sites. With the new PSPS with PG&E this is going to allow the District to maintain water supply to the Districts customers. The installation of these generators will greatly reduce the overtime associated with power outages in the District.

MAINTENANCE ISSUES

Contractor collapsed thirty feet of six inch main line Glenn Arbor Rd. Ben Lomond

Spring site maintenance of seven District facilities throughout the District

Moved meter due to tree roots at 107 Star View Place Boulder Creek

Installed main on Alta Via Road for county contractor working on a slide area

Installation of a new pressure tank on Wells Road Felton

Relocated the meter at 142 Spring Creek Road to avoid vehicle traffic damage

Six inch main break Rancho Rio bridge Ben Lomond

Clean up of multiple fallen trees on the Bull Creek access

Full service line replacement 10649 Visitar Lompico

Full service line replacement 300 Riverside Park Drive Ben Lomond

Repaired approximately 20 Leaks District wide

James Furtado

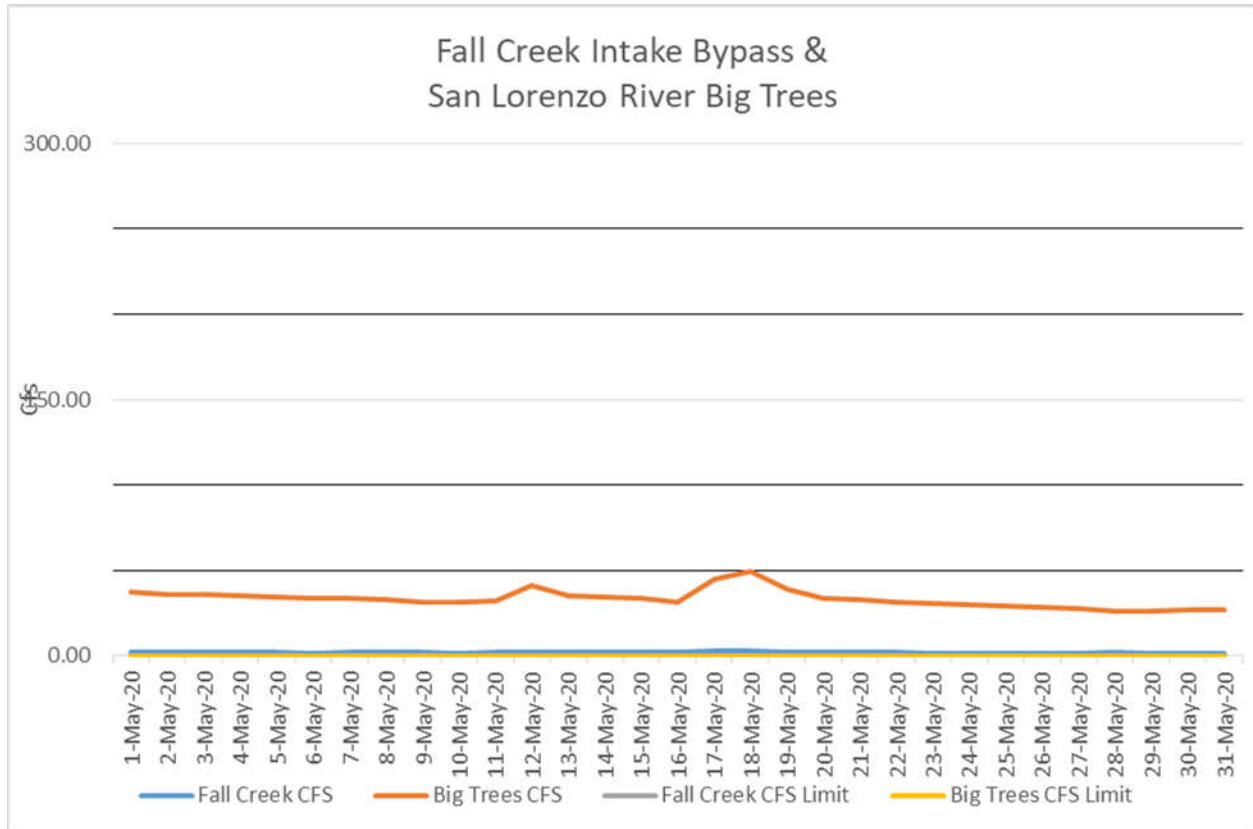
Director of Operations

SAN LORENZO VALLEY WATER DISTRICT

PRODUCTION COMPARRISON

Source	May-20	April-20	May-13	Difference This Year To 2013
North System				
Surface Water Sources				
Foreman Creek	10,123,990	4,558,248	21,521,000	
Peavine Creek + Hydro	3,129,910	1,601,237	4,149,000	
Clear Creek	5,461,560	6,220,509	0	
Sweetwater Creek	3,641,040	4,147,006	0	
Sub-Total (Streams)	22,356,500	16,527,000	25,670,000	-12.91%
Wells (North)				
Olympia No. 2	4,249,000	1,765,000	4,254,000	
Olympia No. 3	9,000	-	8,646,000	
Quail Well No. 4-A	8,749,000	3,763,000	14,783,000	
Quail Well No. 5-A	2,883,700	727,700	1,985,200	
Sub Total North Wells	15,890,700	6,255,700	29,668,200	-46.44%
South System Wells				
Pasatiempo 5A	5,376,700	8,268,700	N/A	
Pasatiempo 6			9,548,000	
Pasatiempo 7	1,398,000	1,077,000	3,016,000	
Pasatiempo 8	3,519,210	2,871,800	N/A	
Sub Total Pasatiempo Wells	10,293,910	12,217,500	12,564,000	-18.07%
North South All Sources Combined	48,541,110	35,000,200	67,902,200	-28.51%
Felton System - Surface Water				
Fall Creek	6,540,339	4,600,517	10,571,789	
Bennett Spring	1,699,456	2,285,888	0	
Bull 1 & 2	1,797,444	1,383,800	0	
Total Felton System Sources	10,037,239	8,270,205	10,571,789	-5.06%
Manana Woods System				
Well 1	-	-	0	
Total Manana Woods Sources	-	-	0	
Sub - Total Production				
North / Felton / Manana	58,578,349	43,270,405	78,473,989	-25.35%
Surface	32,393,739	24,797,205	36,241,789	-10.62%
Wells	26,184,610	18,473,200	42,232,200	-38.00%
Total Surface Water Percentage	55.30	57.31	46.18	19.74%
Total Wells Percentage	44.70	42.69	53.82	-16.94%

Fall Creek Intake May 2020



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 0.75 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 May 2020

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:	May		Year:	2020	Big Trees > 26,500 Acre-ft Oct-Feb Normal Year			Big Trees <26,500 Acre-ft Oct-Feb Dry Year		
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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	840	TH	2	139	25	1.926	37.4	0	yes	yes	
2	745	SS	1	128	25	1.926	36.2	0	yes	yes	
3	750	SS	1	128	25	1.916	35.6	0	yes	yes	
4	900	KM	1	187	25	1.76	35	0	yes	yes	
5	815	TH	1	189	25	1.711	34.4	0	yes	yes	
6	800	KM	1	178	25	1.379	33.9	0	yes	yes	
7	730	KM	1	134	25	1.848	33.3	0	yes	yes	
8	800	KM	1	188	25	1.789	32.8	0	yes	yes	
9	815	JT	1	196	25	1.681	31.7	0	yes	yes	
10	740	JT	1	196	25	1.642	31.7	0	yes	yes	
11	840	TH	1	185	25	1.701	32.2	0	yes	yes	
12	810	TH	1	131	25	2.239	41.1	0.72	yes	yes	
13	800	KM	1	122	25	1.916	35	0.01	yes	yes	
14	830	KM	1	123	25	2.17	34.4	0.03	yes	yes	
15	830	KM	1	98	25	1.945	33.9	0	yes	yes	
16	1120	TH	1	129	25	1.75	31.7	0	yes	yes	
17	745	TH	1	126	25	3.099	45.1	0.55	yes	yes	
18	745	KM	1	132	25	2.512	49.3	0.42	yes	yes	
19	825	TH	1	89	25	2.053	39.2	0.03	yes	yes	
20	730	KM	1	90	25	1.828	33.9	0	yes	yes	
21	900	JG	1	101	25	1.828	32.8	0	yes	yes	
22	1000	JG	1	124	25	1.72	31.7	0	yes	yes	
23	1050	HO	1	147	25	1.652	30.6	0	yes	yes	
24	1030	HO	1	164	25	1.583	29.5	0	yes	yes	
25	830	HO	1	185	25	1.544	29	0	yes	yes	
26	840	TH	1	202	25	1.474	28	0	yes	yes	
27	745	KM	1	222	25	1.447	27.5	0	yes	yes	
28	915	KM	1	218	25	1.88	26	0	yes	yes	
29	745	KM	1	219	25	1.369	26	0	yes	yes	
30	1115	JG	1	153	25	1.515	26.5	0.06	yes	yes	
31	1045	JG	1	142	25	1.573	27	0.05	yes	yes	

San Lorenzo Valley Water District
Loch Lomond Water Supply
May 2020

Loch Lomond Water Level



Week ending Wednesday 6 / 7 / 2020

(in feet above mean sea level; lake spills at 577.15 feet)

Currently: 574.6 ft

Percent of Capacity: 94.3%

In 1958 SLVWD sold 2,500 acres of property in the vicinity of the Newell Creek Watershed to the City of Santa Cruz, with the agreement that SLVWD would be entitled to purchase 12 ½ percent of the annual safe yield from a future Newell Creek reservoir, up to a maximum of 500 AF/yr. Based on the 1958 agreement, SLVWD began receiving deliveries of Loch Lomond water from the City in 1963. In 1965 the District constructed the Glen Arbor Water treatment plant for treating Loch Lomond water. Toward the end of the 1976-77 drought, the City stipulated that the District was not entitled to an allocation of 500 AF/yr, merely 12.5% of the safe yield. This decision based on a reduction to the estimated annual safe yield from the Newell Creek Reservoir, reduced the Districts contractual allocation. On June 7, 1977, the District filed a Complaint for Declaratory Relief, which requested the court to make a judicial determination of the respective parties' duties and rights. In June 1980 a court order fixed the estimated safe yield from Newell Creek Reservoir at reduced quantity, which resulted in a reduction to the Districts contractual allocation to 313 AF/yr.

Production Loch Lomond to SLVWD

Date	Total Used	Total Available
1976 July to June 1977	353 AF	
1977 July to June 2015	0	313 AF
2015 July to 02/2016	0	313 AF
2/20/16 to Current	0	313 AF

Last time District used Loch Lomond water was June 1977

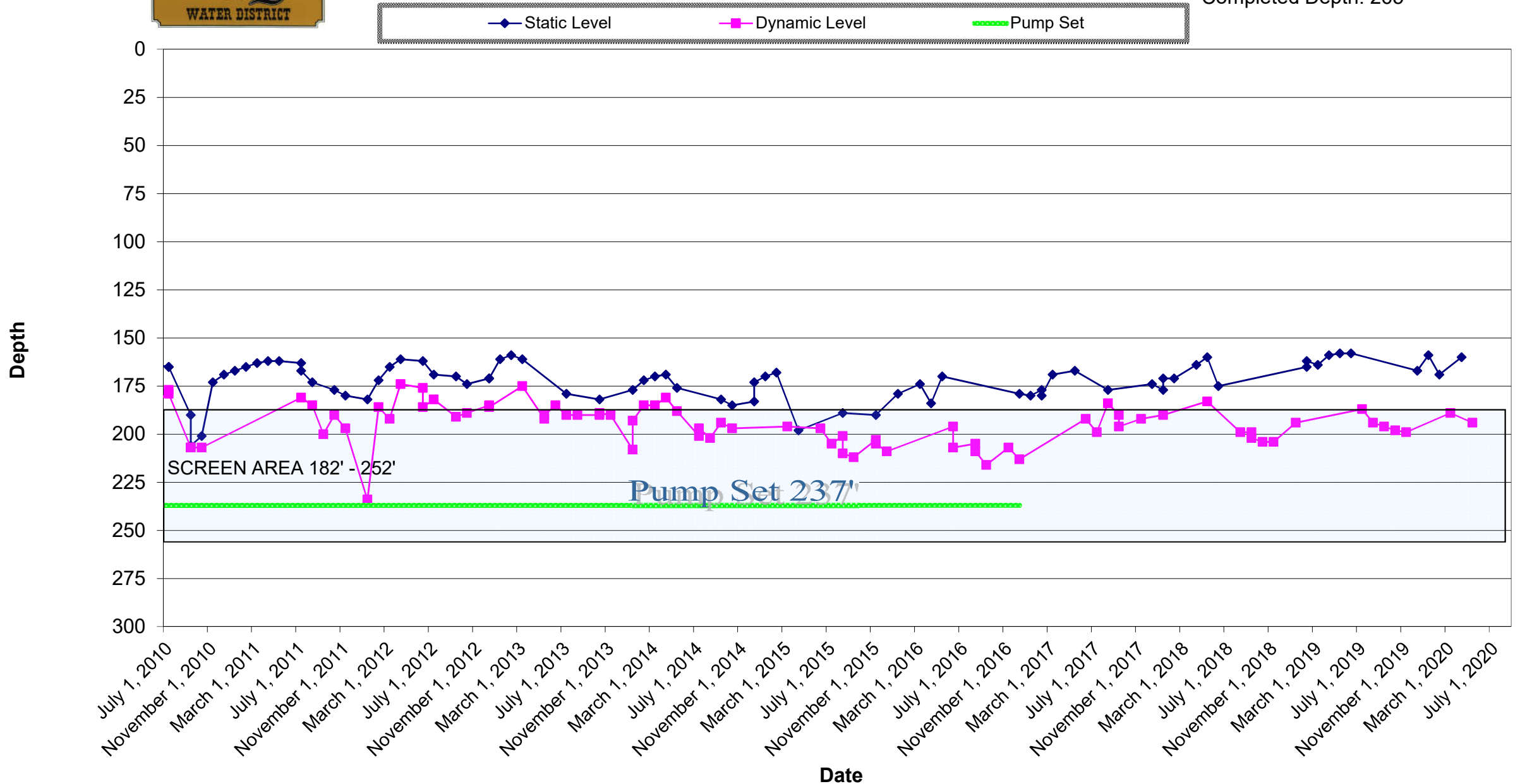


SAN LORENZO VALLEY WATER DISTRICT

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



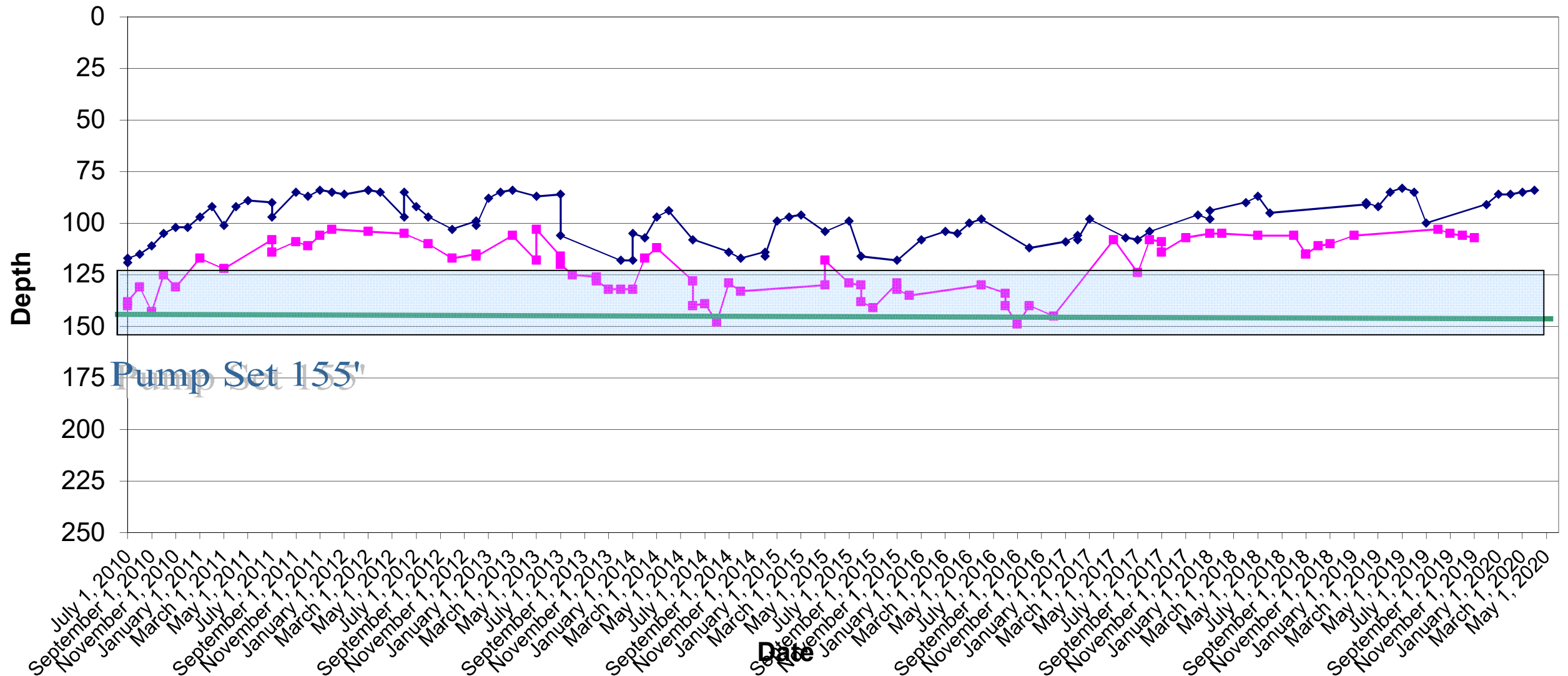


SAN LORENZO VALLEY WATER DISTRICT

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'



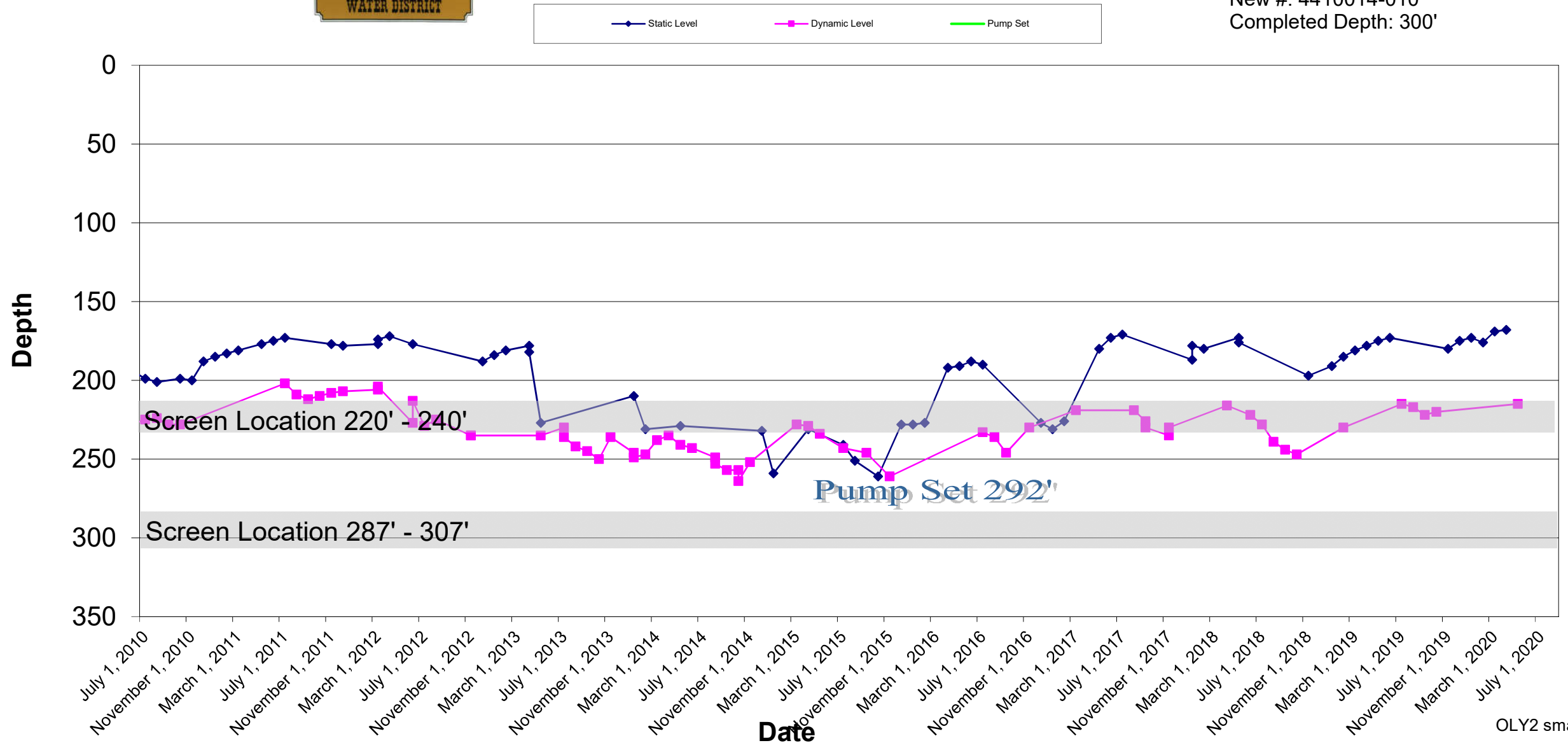


SAN LORENZO VALLEY WATER DISTRICT

Well Drawdown Report

Olympia 2

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



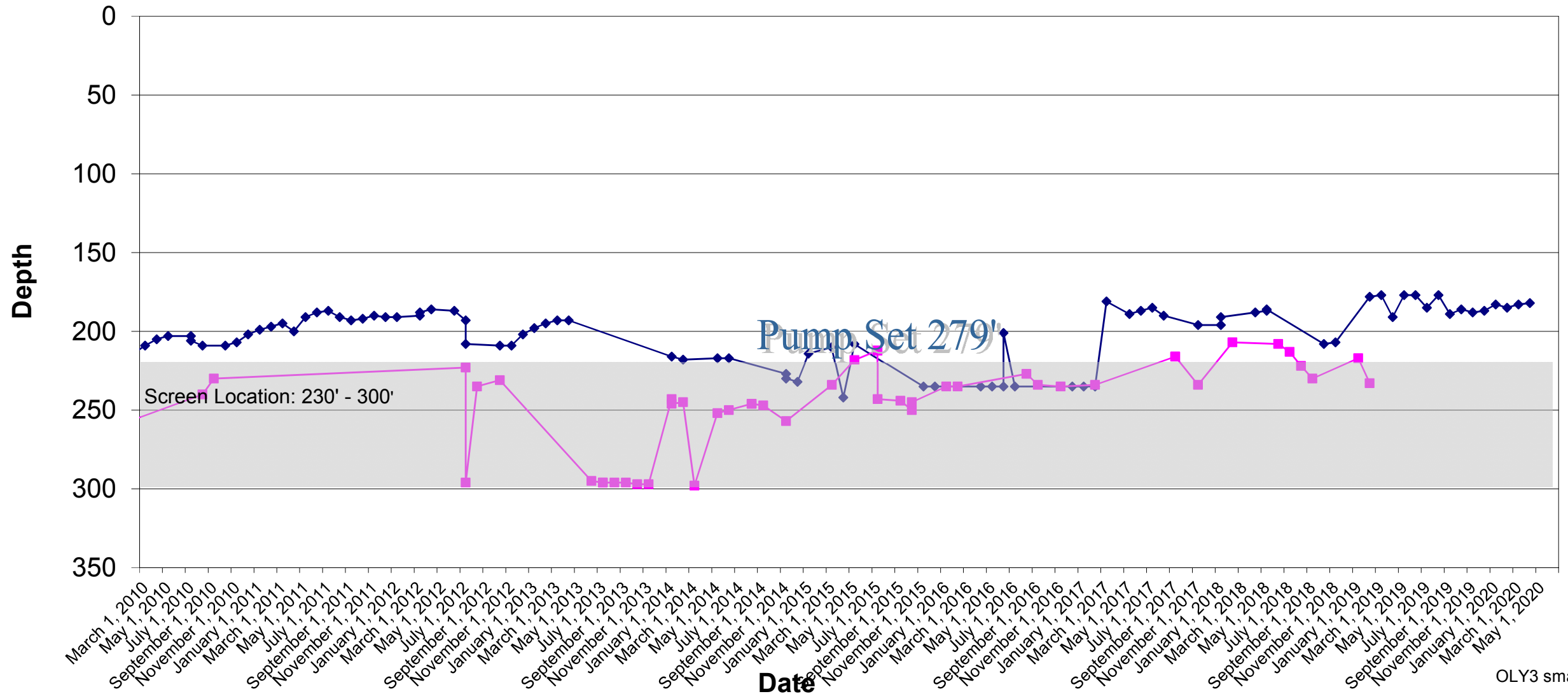


SAN LORENZO VALLEY WATER DISTRICT

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:



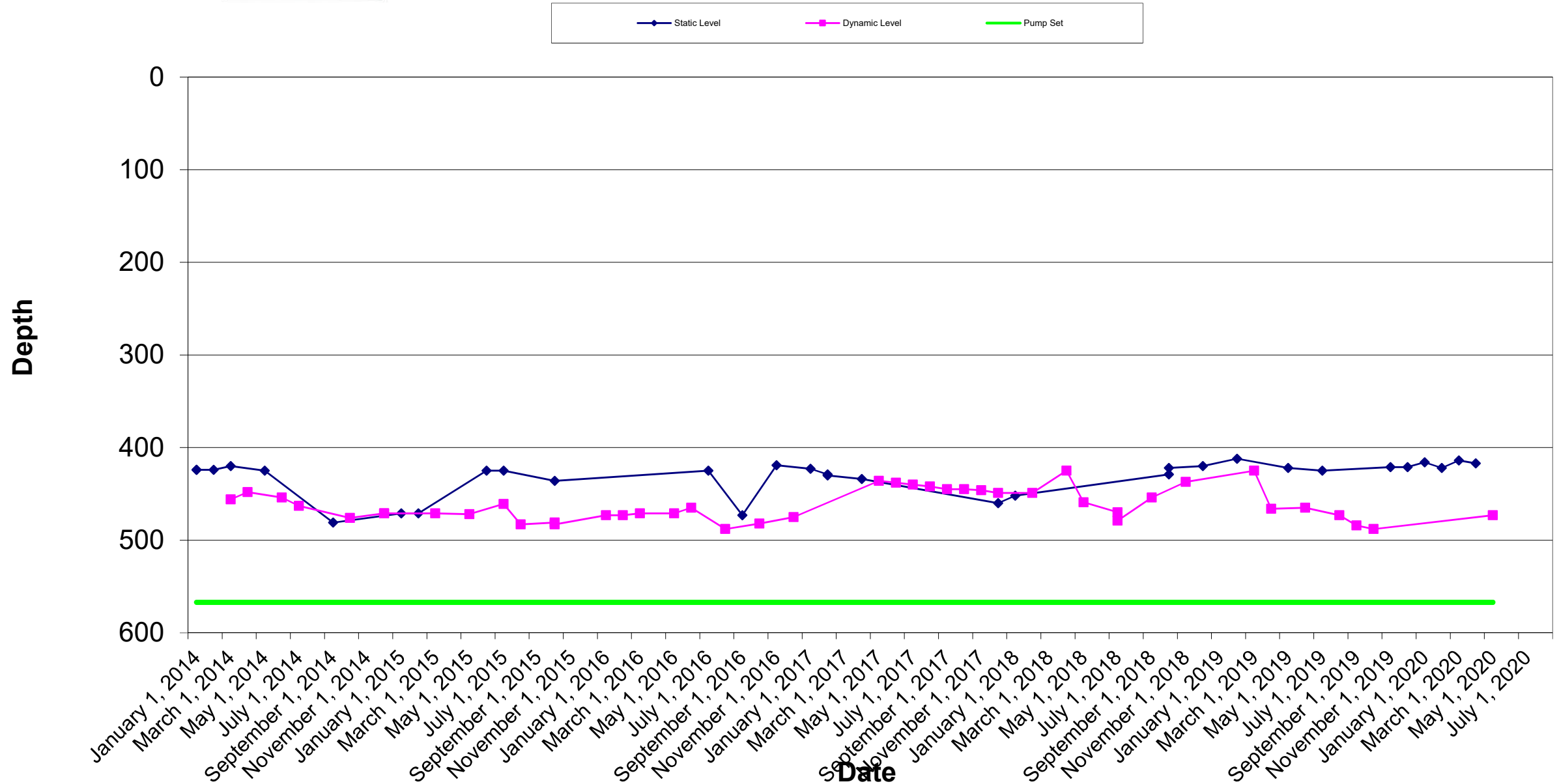


SAN LORENZO VALLEY WATER DISTRICT

Well Drawdown Report

Pasatiempo 5-A

Location: So. Of 3650 Graham Hill Rd
Elevation: 752'
Installed 1-1-14
State Well #:4410014-014
Completed Depth: 710'



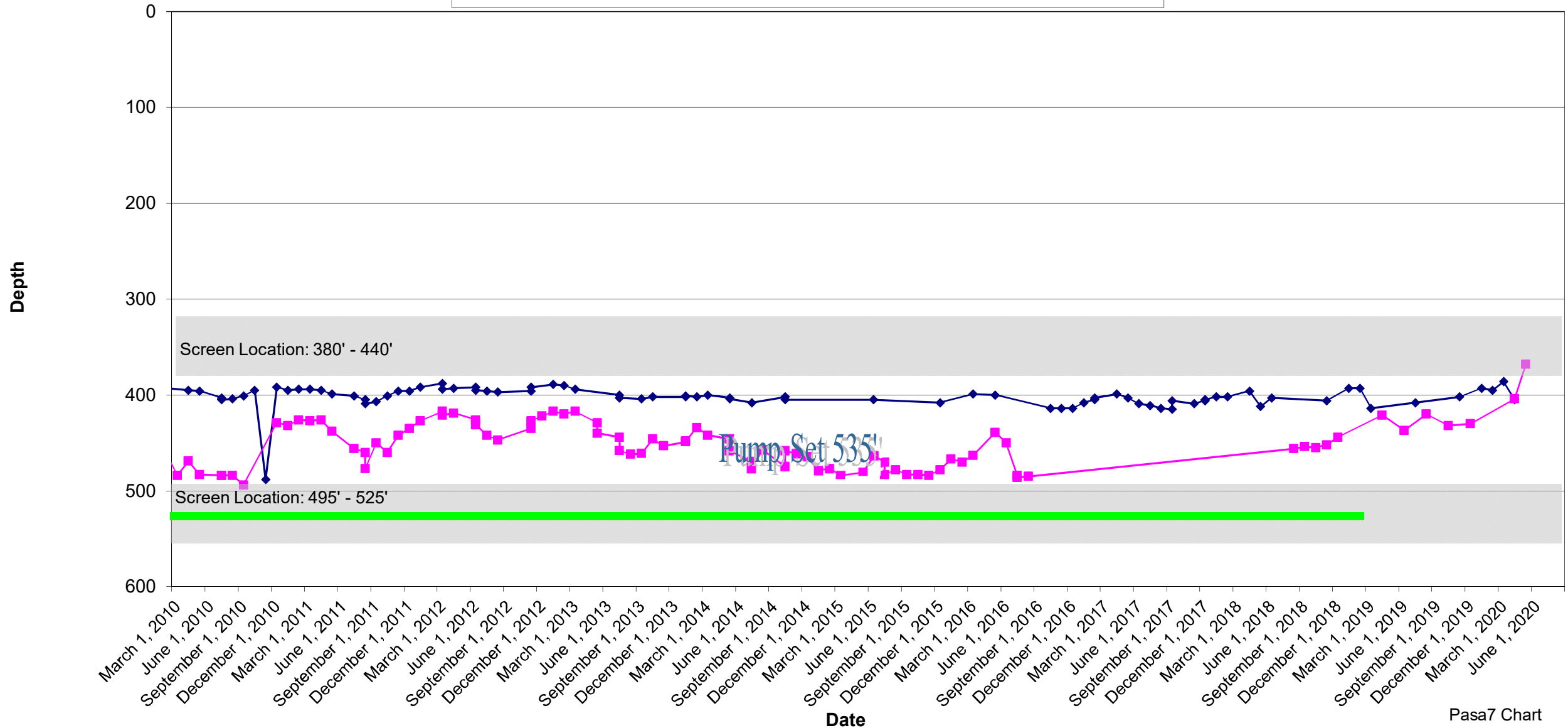


SAN LORENZO VALLEY WATER DISTRICT

Well Drawdown Report

Pasatiempo 7

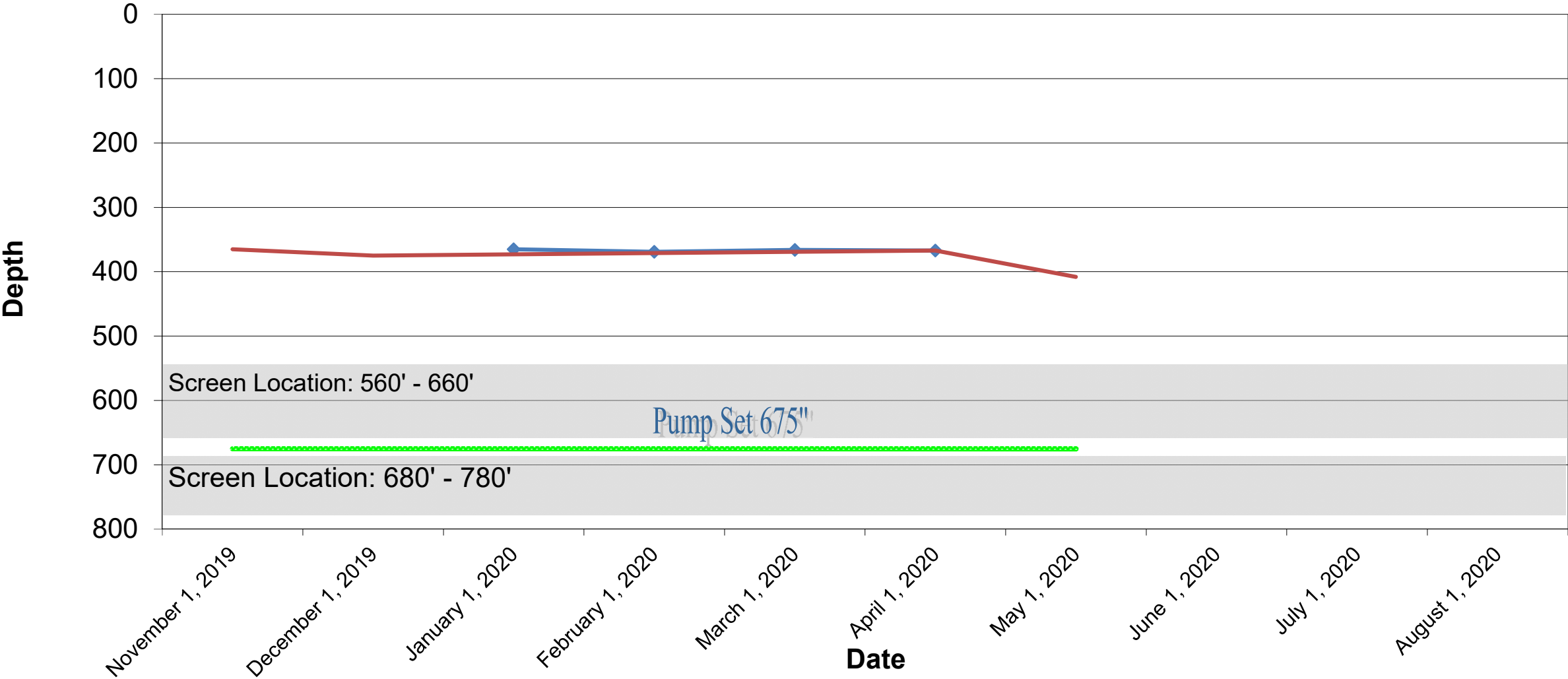
Location: South of Probation
Center
Elevation: 734' MSL
Installed: July 21, 1990
State Well #: 4410014-024
Completed Depth: 540'



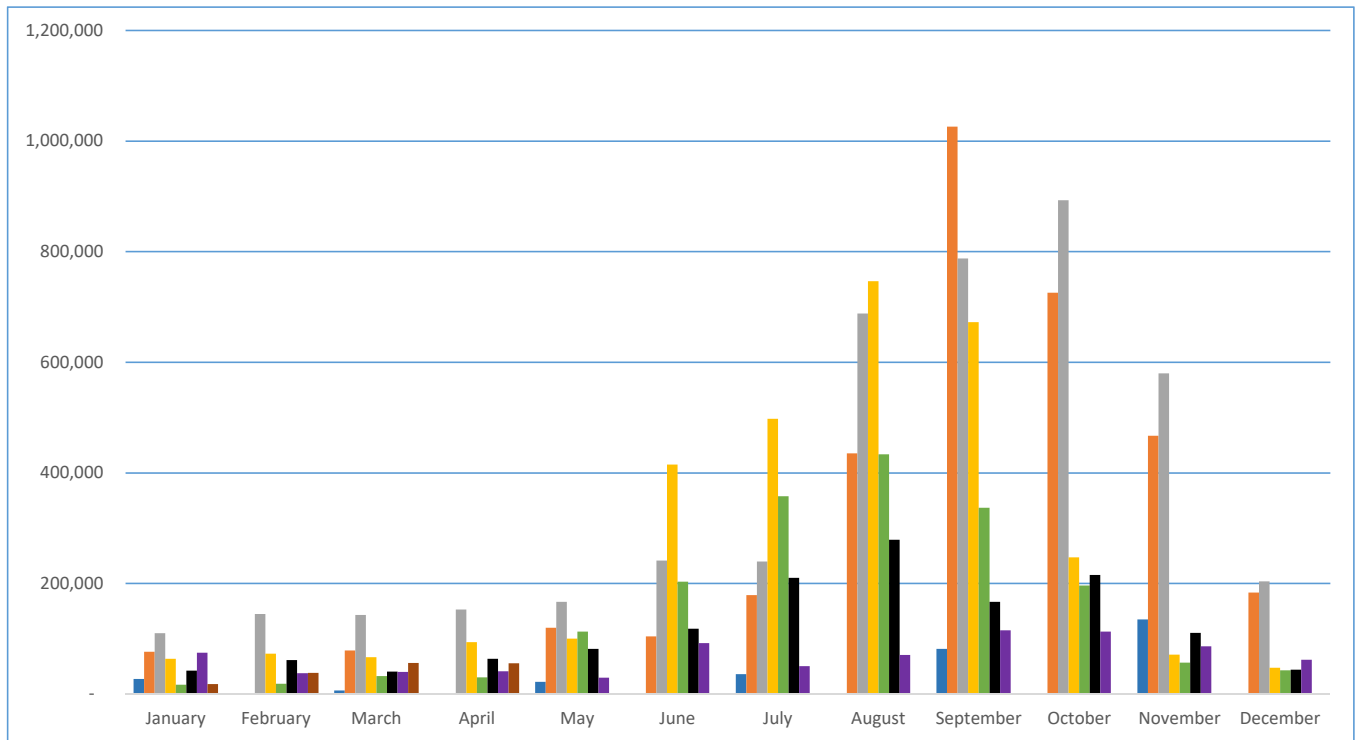


SAN LORENZO VALLEY WATER DISTRICT
Well Drawdown Report
Pasatiempo 8

Location: Behind 3650 Graham Hill Rd.
Elevation: 775'
Installed: 11-20-2019
State Well #: 4410014-041
Completed Depth: 805'



SAN LORENZO VALLEY WATER DISTRICT
BULK WATER SALES
GALLONS
April 2020



Month	2013	2014	2015	2016	2017	2018	2019	2020
January	26,928	76,296	109,965	63,850	16,456	41,888	74,800	17,952
February			144,364	72,556	18,700	61,366	37,400	38,148
March	5,984	78,540	142,868	66,572	32,164	40,392	39,644	56,100
April			152,592	93,500	29,920	63,580	41,140	55,352
May	21,692	119,680	166,804	100,232	112,948	81,532	29,172	
June		103,972	240,983	415,140	203,179	118,184	92,004	
July	35,904	178,772	239,360	497,420	357,544	210,188	50,116	
August		435,336	688,160	746,504	433,092	279,004	70,312	
September	81,352	1,026,256	787,644	672,183	336,570	166,804	115,192	
October		725,560	893,112	246,840	195,976	215,424	112,948	
November	134,640	466,752	579,700	71,060	56,848	110,704	86,020	
December		183,260	203,456	47,124	42,636	44,132	62,084	
Totals	306,500	3,394,424	4,349,008	3,092,981	1,836,033	1,433,198	810,832	167,552

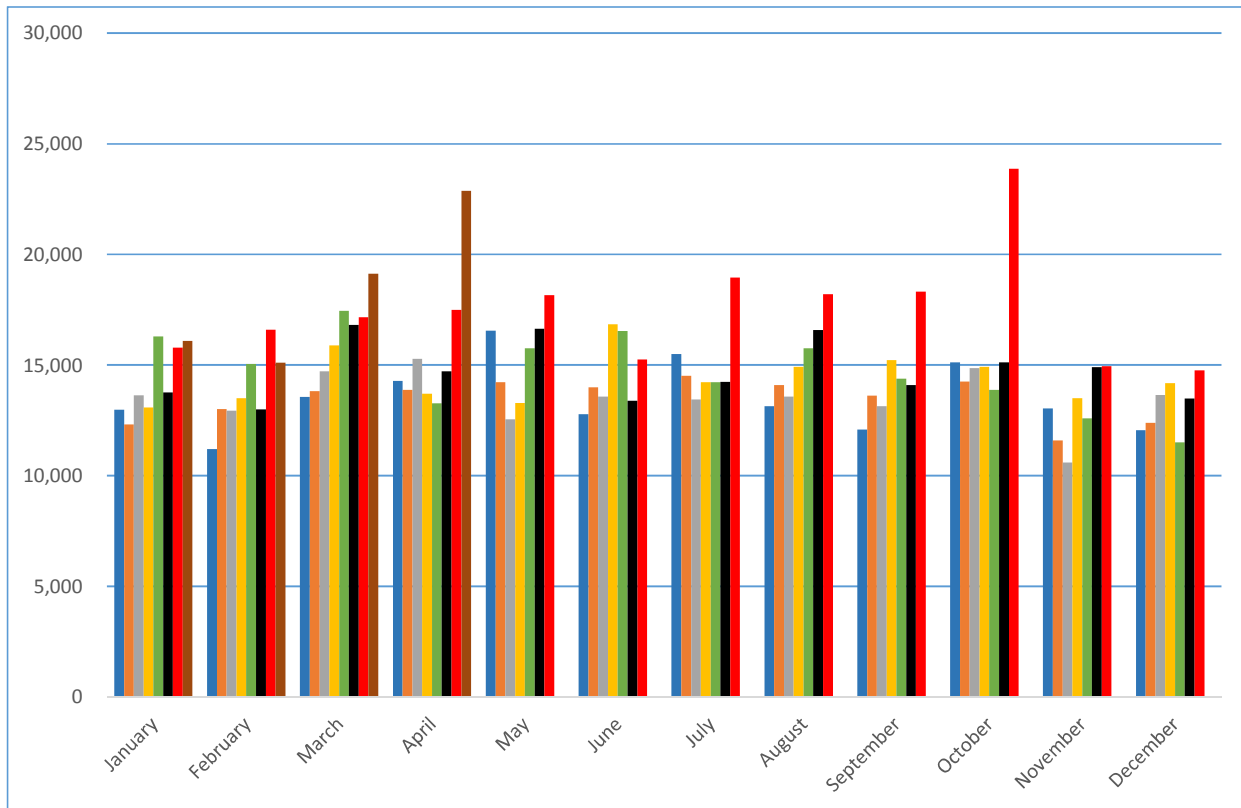
SAN LORENZO VALLEY WATER DISTRICT
MONTHLY LEAK REPORT
April 2020

Leak Type	Location - NORTH SYSTEM	Town	Gallons Lost
400 MAIN LEAKING	200 CALEDONIUM AVE.	BEN LOMOND	4,320
420 HYDRANT LEAK/REPAIRS	850 BLOCK OF HWY 9	BEN LOMOND	72,000
400 MAIN LEAKING	140 APPLE KNOLL	BOULDER CREEK	360
400 MAIN LEAKING	CRESCENT DR	BOULDER CREEK	180
400 MAIN LEAKING	155 CREEK COURT	BOULDER CREEK	2,880
400 MAIN LEAKING	266 BLUE RIDGE DR	BOULDER CREEK	90
400 MAIN LEAKING	250 KELLER DR	BOULDER CREEK	2,880
400 MAIN LEAKING	10408 RAILROAD AVE	BOULDER CREEK	500
400 MAIN LEAKING	115 TEILH DRIVE	BOULDER CREEK	10,080
400 MAIN LEAKING	13220 RAILROAD AVE.	BOULDER CREEK	7,200
400 MAIN LEAKING	15 BRIMBLECOM RD	BOULDER CREEK	2,288
Total North			102,778
FELTON SYSTEM			
400 MAIN LEAKING	1141 LAUREL AVE.	FELTON	24000
400 MAIN LEAKING	KIRBY ST	FELTON	5400
400 MAIN LEAKING	255 ZAYANTE SCHOOL RD	FELTON	5760
Total Felton			35,160
LOMPICO			
400 MAIN LEAKING	12299 LA LENA ST.	LOMPICO	16,200
Total Lompico			16,200
SCOTTS VALLEY			
400 MAIN LEAKING	119 ROYAL OAK CT.	SCOTTS VALLEY	2880
Total Scotts Valley			2,880
Total All Systems			157,018

SAN LORENZO VALLEY WATER DISTRICT

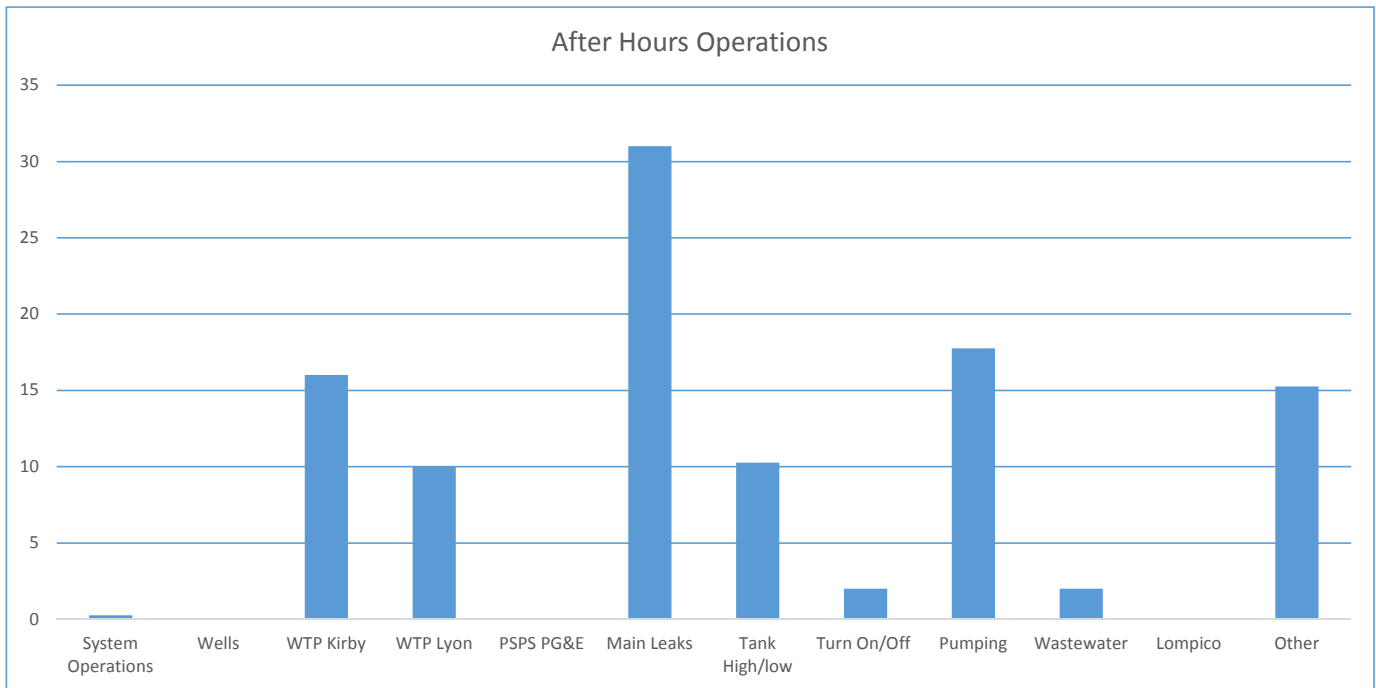
VEHICLE MILEAGE

April 2020



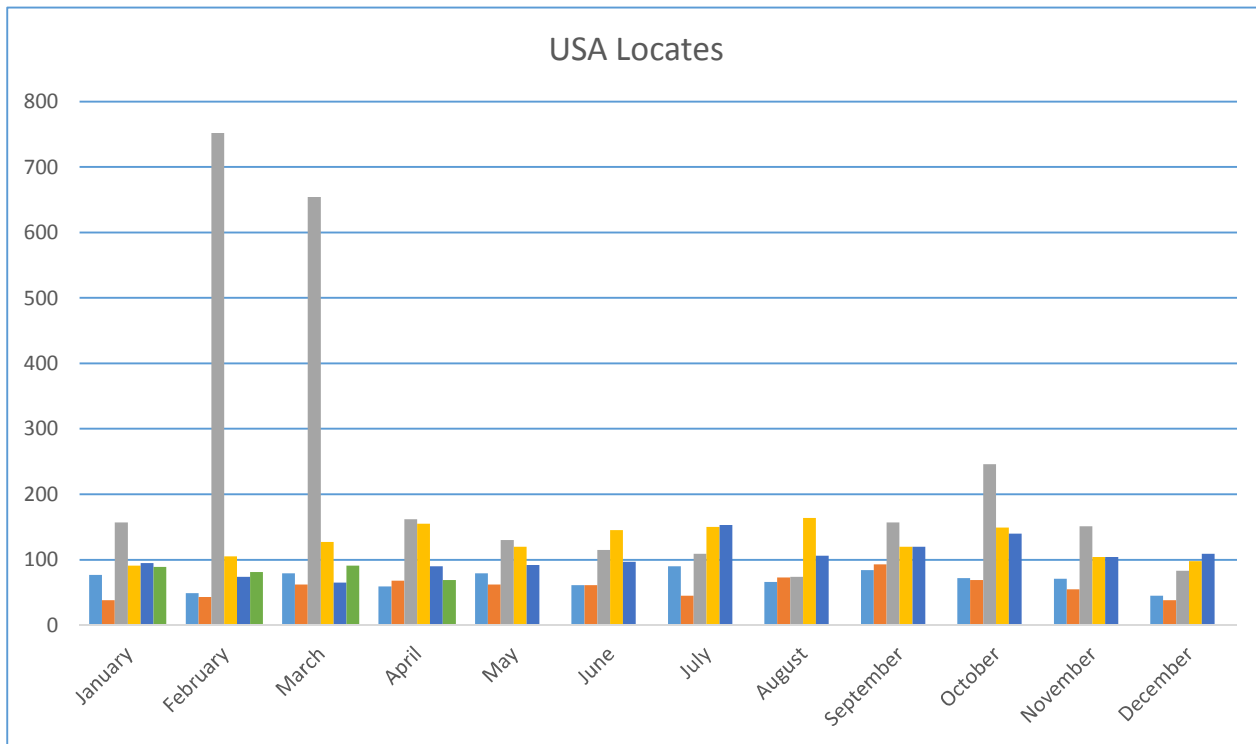
<u>Month</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>
January	12,976	12,317	13,633	13,082	16,286	13,763	15,790	16,088
February	11,201	13,015	12,934	13,505	15,045	13,003	16,599	15,113
March	13,558	13,817	14,714	15,882	17,451	16,809	17,167	19,132
April	14,283	13,883	15,279	13,704	13,270	14,711	17,488	22,868
May	16,560	14,228	12,550	13,290	15,757	16,646	18,156	
June	12,780	14,000	13,582	16,841	16,534	13,390	15,249	
July	15,497	14,519	13,441	14,228	14,229	14,242	18,955	
August	13,136	14,096	13,569	14,923	15,761	16,576	18,194	
September	12,087	13,622	13,137	15,229	14,388	14,094	18,321	
October	15,120	14,261	14,868	14,924	13,880	15,126	23,864	
November	13,046	11,594	10,591	13,510	12,598	14,908	14,942	
December	12,060	12,394	13,648	14,187	11,512	13,492	14,763	
Totals	162,304	161,746	161,946	173,305	176,711	176,760	209,488	73,201

SAN LORENZO VALLEY WATER DISTRICT
OPERATIONS DEPARTMENT
 April 2020



<u>Description</u>	<u>Hours</u>		2015	2016	2017	2018	2019	2020
System Operations	0.25	January	N/A	145.00	280.75	90.50	96.50	109.00
Wells	0	February	N/A	86.50	192.25	72.00	180.00	89.50
WTP Kirby	16	March	N/A	153.75	105.75	80.25	106.25	55.75
WTP Lyon	10	April	82.50	72.00	128.75	156.75	76.25	104.50
PSPS PG&E	0	May					82.50	
Main Leaks	31	June	172.50	83.25	112.75	89.00	136.75	
Tank High/low	10.25	July	124.25	80.25	162.00	145.25	158.30	
Turn On/Off	2	August	111.75	81.25	141.25	134.5	119.75	
Pumping	17.75	September	230.25	175.00	201.25	155.25	133.00	
Wastewater	2	October	128.25	78.50	104.00	111.5	605.75	
Lompico	0	November	114.25	96.25	122.50	197.5	182.00	
Other	15.25	December	186.25	130.75	134.00	220.25	195.50	
Total	104.50		1150.00	1182.50	1685.25	1452.75	2072.55	

SAN LORENZO VALLEY WATER DISTRICT
OPERATIONS DEPARTMENT
 April 2020



Month	2015	2016	2017	2018	2019	2020
January	77	38	157	91	95	89
February	49	43	752	105	74	81
March	79	62	654	127	65	91
April	59	68	162	155	90	69
May	79	62	130	120	92	
June	61	61	115	145	97	
July	90	45	109	150	153	
August	66	73	74	164	106	
September	84	93	157	120	120	
October	72	69	246	149	140	
November	71	55	151	104	104	
December	45	38	83	98	109	
Total to Date	832	707	2,790	1528	1245	330

