

MEMO

TO: District Manager

FROM: Director of Operations

SUBJECT: OPERATIONS DEPARTMENT STATUS REPORT
June 2020

DATE: July 16, 2020

RECOMMENDATION:

It is recommended that the District Manager review and file the Operations Department Project Status Report for the month of June 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 has continued 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.

METER CHANGE OUT FOR ACCURACY TESTING

District staff worked on changing out 25 meters for accuracy testing. The meters have been pulled and changed. They are waiting for acceptance to the meter testing facility. Due to the COVID 19 we are having to wait for a scheduled drop off.

FRENCH BROOM PULL OLYMPIA WATERSHED

District staff and consultants pulled French broom in the Olympia Conservation Area. This was to catch up on the maintenance for the Habitat Management and Monitoring Plan for this sensitive protected area.

DISTRICT INVENTORY

District staff completed fiscal year end inventory counting. This has to be done annually for District auditing.

MAINTENANCE ISSUES

451 La Questa Drive full service line replacement Scotts Valley Manana Woods

300 Riverside Park Drive full service line replacement Ben Lomond

Replaced 20 feet of 2 inch deteriorated main line

15675 Hwy 9 contractor drilled through the District's 8 inch main installing sign's

Madrone Avenue Boulder Creek tree contractor crushed a steel 8 inch main line

Installed repaired pump echo booster Boulder Creek

Replaced Broken Stairs Fairview Booster

Sewer lateral clogged Forest Hill Drive Bear Creek Estates

Abandon service 11049 Lake Blvd.

891 San Lorenzo Ave. meter relocation for installation of new driveway

5995 Glenn Arbor Road meter relocation for landscaping

District facilities site maintenance at multiple locations throughout the District

Installation of covers on Paso Well cages for sun and freeze protection

Repaired approximately 26 Leaks District wide

James Furtado

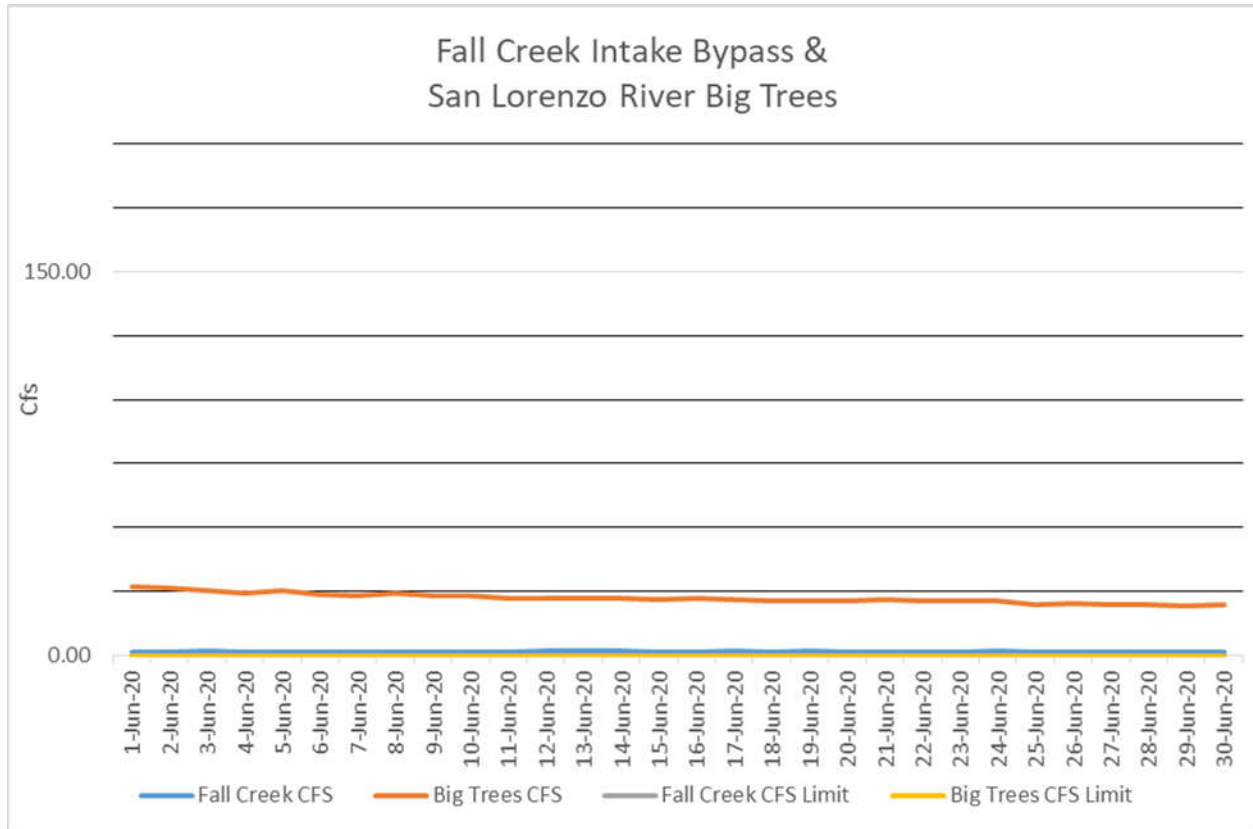
Director of Operations

SAN LORENZO VALLEY WATER DISTRICT

PRODUCTION COMPARRISON

Source	June-20	May-20	June-13	Difference This Year To 2013
North System				
Surface Water Sources				
Foreman Creek	7,107,579	10,123,990	16,483,000	
Peavine Creek + Hydro	2,262,820	3,129,910	2,974,000	
Clear Creek	4,075,561	5,461,560	0	
Sweetwater Creek	2,717,040	3,641,040	0	
Sub-Total (Streams)	16,163,000	22,356,500	19,457,000	-16.93%
Wells (North)				
Olympia No. 2	8,122,000	4,249,000	8,416,000	
Olympia No. 3	4,127,000	9,000	13,697,000	
Quail Well No. 4-A	9,673,000	8,749,000	0	
Quail Well No. 5-A	4,473,700	2,883,700	798,700	
Sub Total North Wells	26,395,700	15,890,700	22,911,700	15.21%
South System Wells				
Pasatiempo 5A	7,528,200	5,359,400	N/A	
Pasatiempo 6	-	-	10,420,000	
Pasatiempo 7	1,946,000	1,398,000	3,249,000	
Pasatiempo 8	4,714,870	3,519,210	N/A	
Sub Total Pasatiempo Wells	14,189,070	10,276,610	13,669,000	3.80%
North South All Sources Combined	56,747,770	48,523,810	56,037,700	1.27%
Felton System - Surface Water				
Fall Creek	7,518,921	6,540,339	10,380,000	
Bennett Spring	1,546,116	1,699,456	5,898,000	
Bull 1 & 2	1,795,948	1,797,444	1,989,900	
Total Felton System Sources	10,860,985	10,037,239	18,267,900	-40.55%
Manana Woods System				
Well 1	-	-	0	
Total Manana Woods Sources	-	-	0	
Sub - Total Production				
North / Felton / Manana	67,608,755	58,561,049	74,305,600	-9.01%
Surface	27,023,985	32,393,739	37,724,900	-28.37%
Wells	40,584,770	26,167,310	36,580,700	10.95%
Total Surface Water Percentage	39.97	55.32	50.77	-21.27%
Total Wells Percentage	60.03	44.68	49.23	21.94%

Fall Creek Intake June 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 June 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
1997	1.0	1.0
1998	1.0	1.0
1999	1.0	1.0
2000	1.0	1.0
2001	1.0	1.0
2002	1.0	1.0
2003	1.0	1.0
2004	1.0	1.0
2005	1.0	1.0
2006	1.0	1.0
2007	1.0	1.0
2008	1.0	1.0
2009	1.0	1.0
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2021	1.0	1.0
2022	1.0	1.0
2023	1.0	1.0
2024	1.0	1.0
2025	1.0	1.0
2026	1.0	1.0
2027	1.0	1.0
2028	1.0	1.0
2029	1.0	1.0
2030	1.0	1.0
2031	1.0	1.0
2032	1.0	1.0
2033	1.0	1.0
2034	1.0	1.0
2035	1.0	1.0
2036	1.0	1.0
2037	1.0	1.0
2038	1.0	1.0
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2041	1.0	1.0
2042	1.0	1.0
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2046	1.0	1.0
2047	1.0	1.0
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2077	1.0	1.0
2078	1.0	1.0
2079	1.0	1.0
2080	1.0	1.0
2081	1.0	1.0
2082	1.0	1.0
2083	1.0	1.0
2084	1.0	1.0
2085	1.0	1.0
2086	1.0	1.0
2087	1.0	1.0
2088	1.0	1.0
2089	1.0	1.0
2090	1.0	1.0
2091	1.0	1.0
2092	1.0	1.0
2093	1.0	1.0
2094	1.0	1.0
2095	1.0	1.0
2096	1.0	1.0
2097	1.0	1.0
2098	1.0	1.0
2099	1.0	1.0
2100	1.0	1.0

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San Lorenzo Valley Water District
Loch Lomond Water Supply
June 2020

Loch Lomond Water Level



Week ending Wednesday 6 / 28 / 2020

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

Currently: 574.15 ft

Percent of Capacity: 93.5%

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

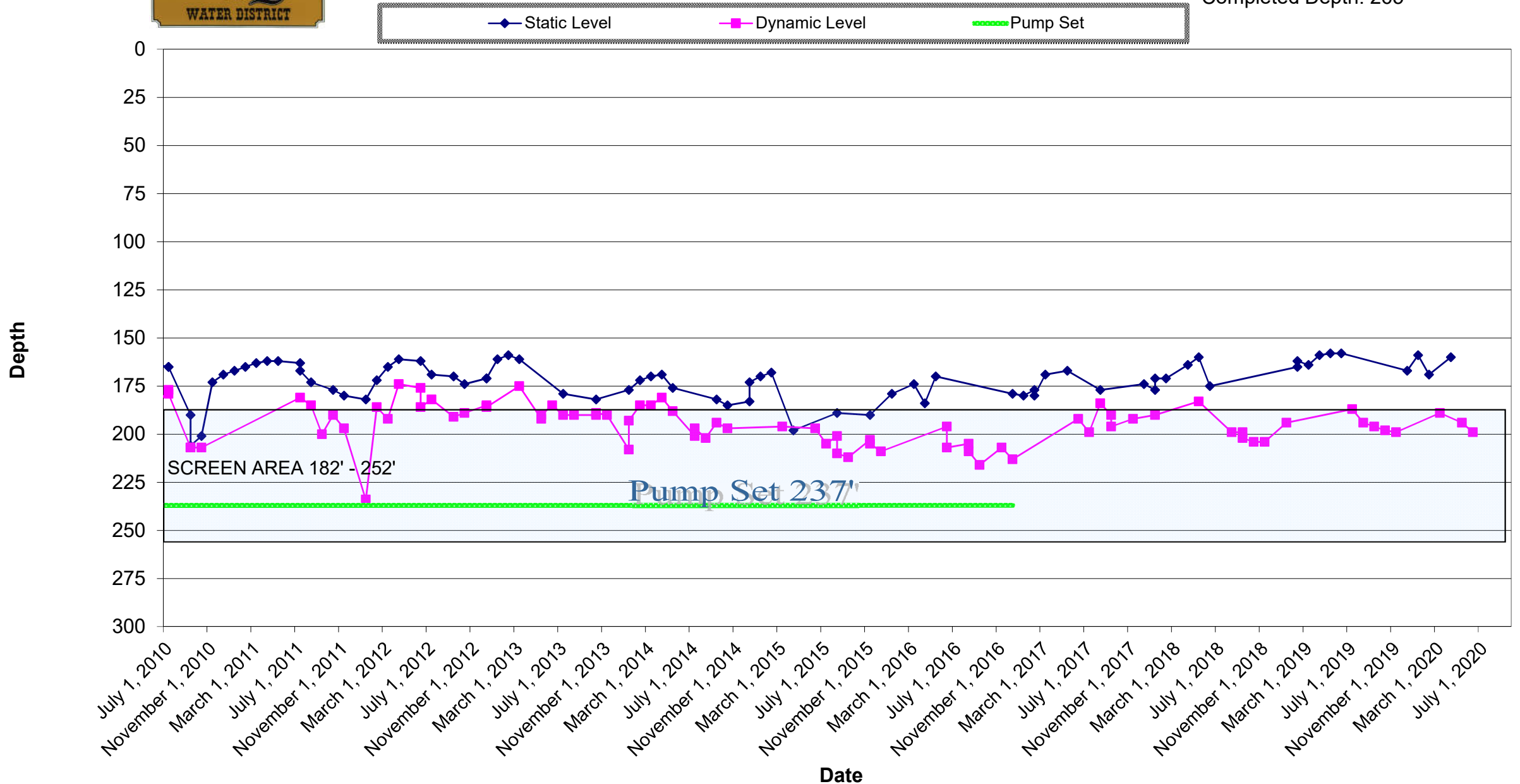


SAN LORENZO VALLEY WATER DISTRICT

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



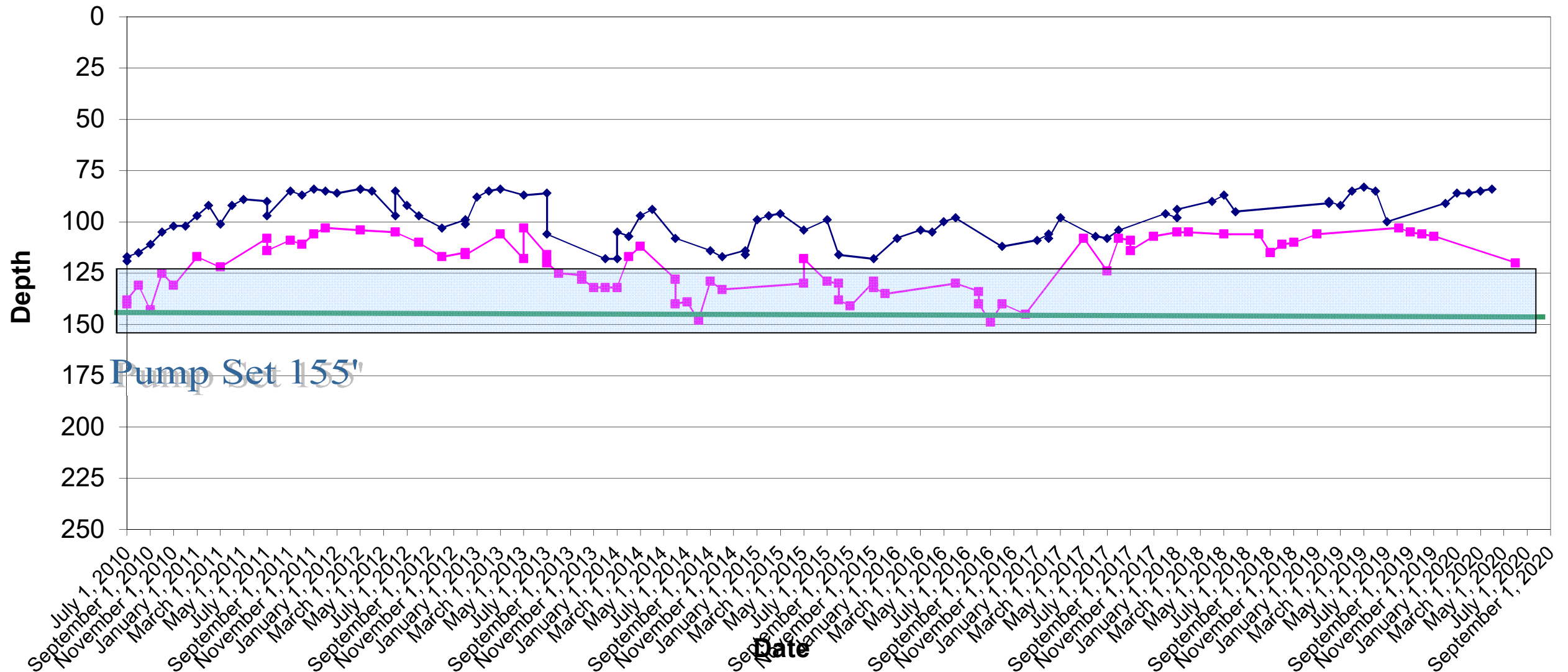


SAN LORENZO VALLEY WATER DISTRICT

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'



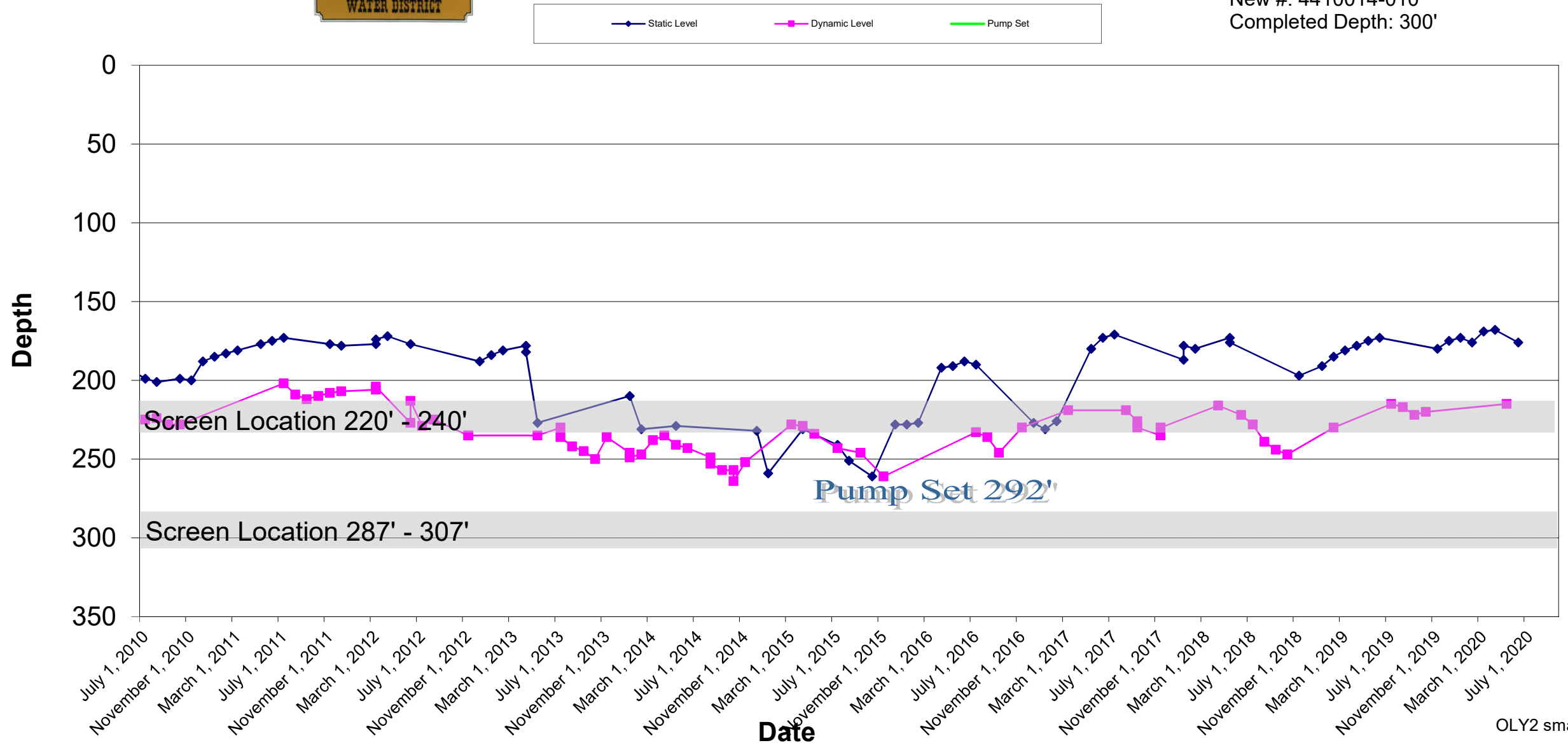


SAN LORENZO VALLEY WATER DISTRICT

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'



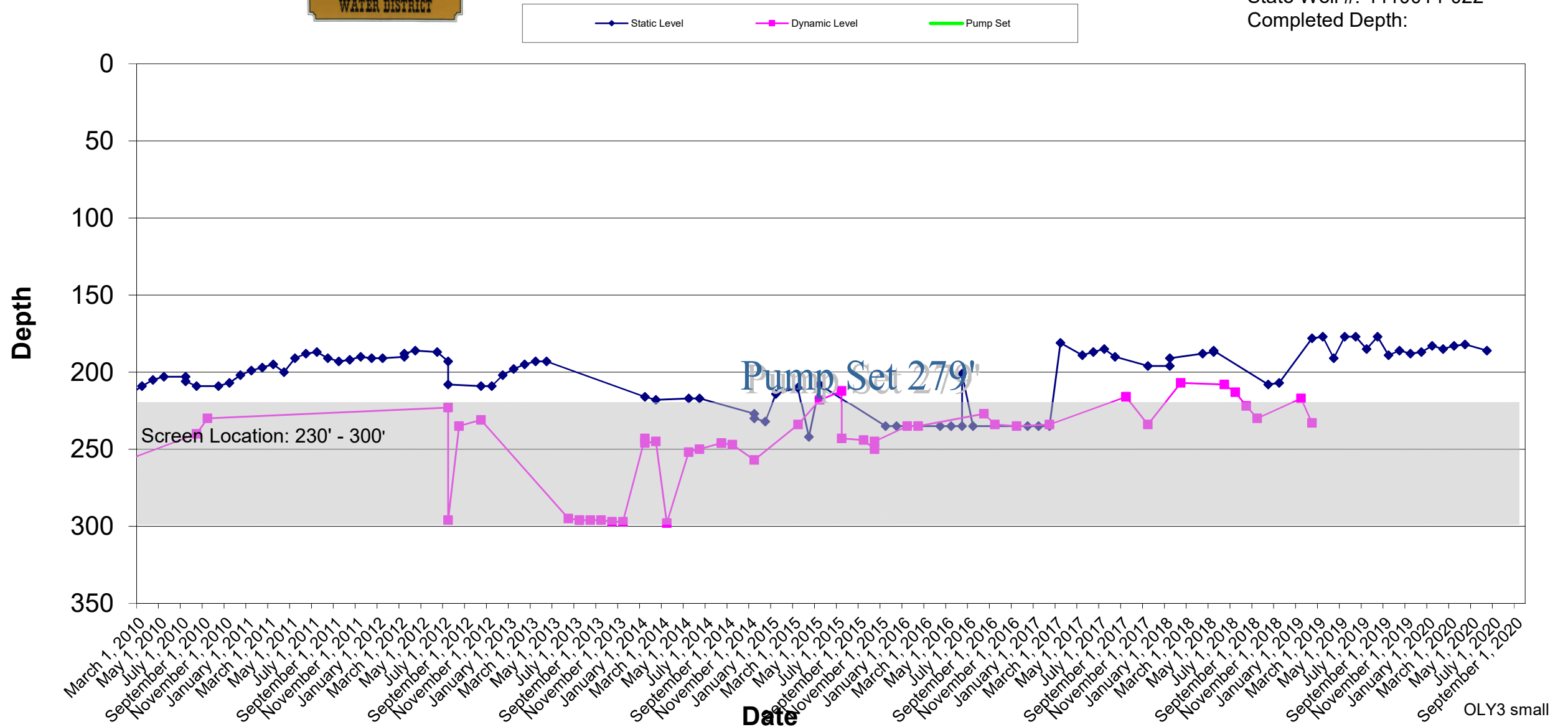


SAN LORENZO VALLEY WATER DISTRICT

Well Drawdown Report

Olympia 3

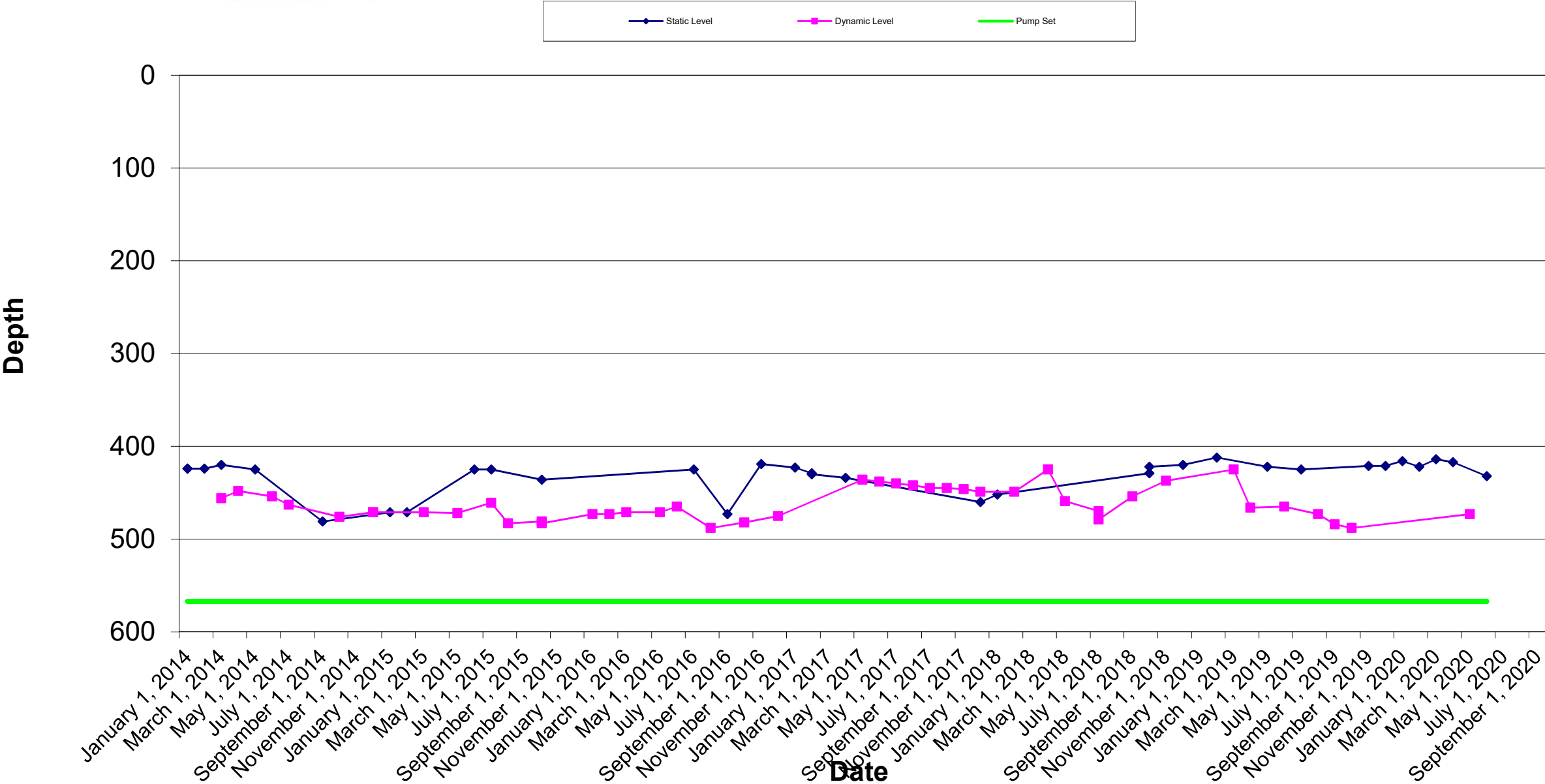
Location: 7701 E. Zayante Rd
Elevation: 538' Mean Sea Level
Installed: 8-15-90
State Well #: 4410014-022
Completed Depth:





SAN LORENZO VALLEY WATER DISTRICT
Well Drawdown Report
Pasatiempo 5-A

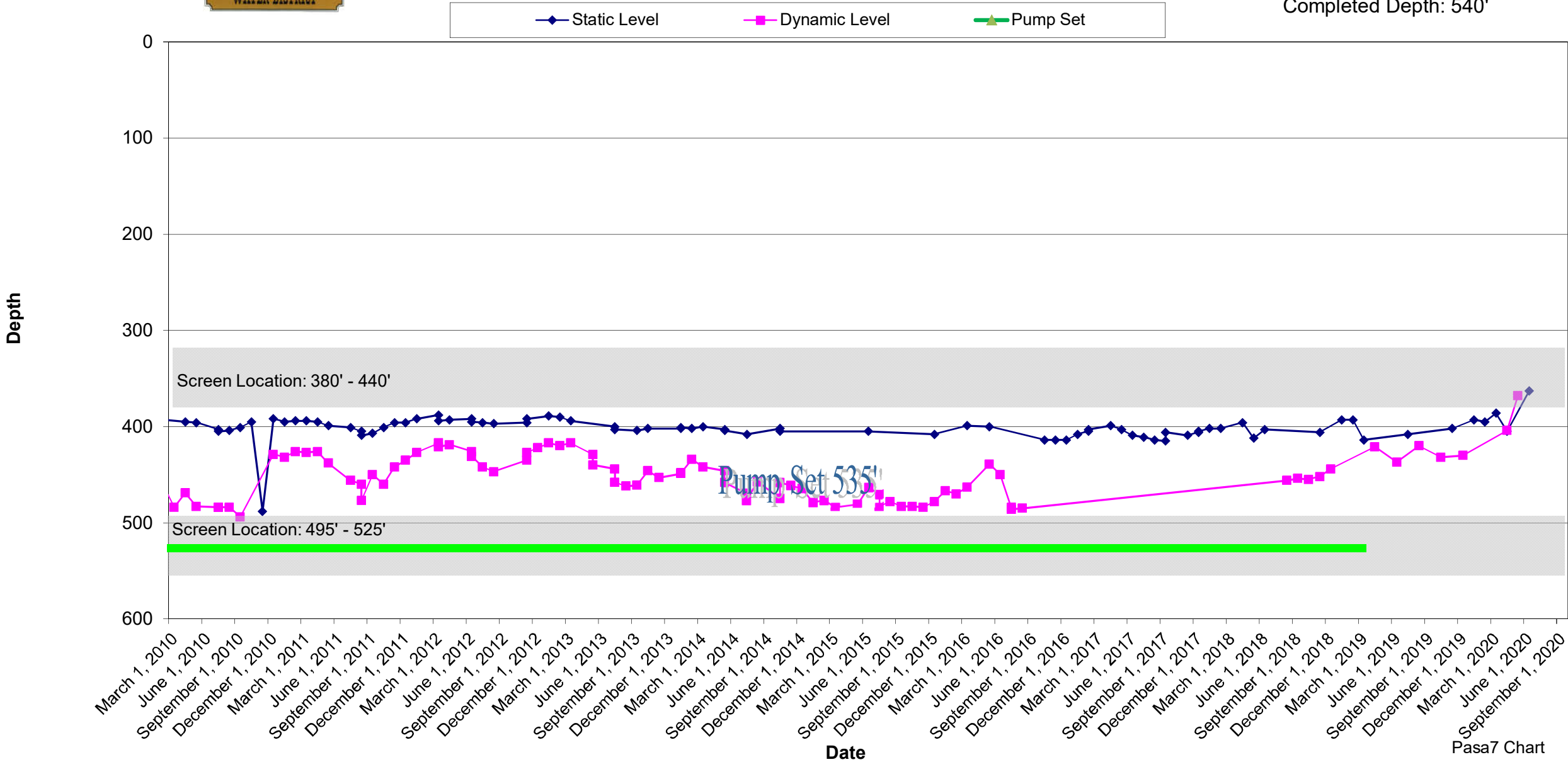
Location: So. Of 3650 Graham Hill Rd
Elevation: 752'
Installed 1-1-14
State Well #:4410014-014
Completed Depth: 710'





SAN LORENZO VALLEY WATER DISTRICT
Well Drawdown Report
Pasatiempo 7

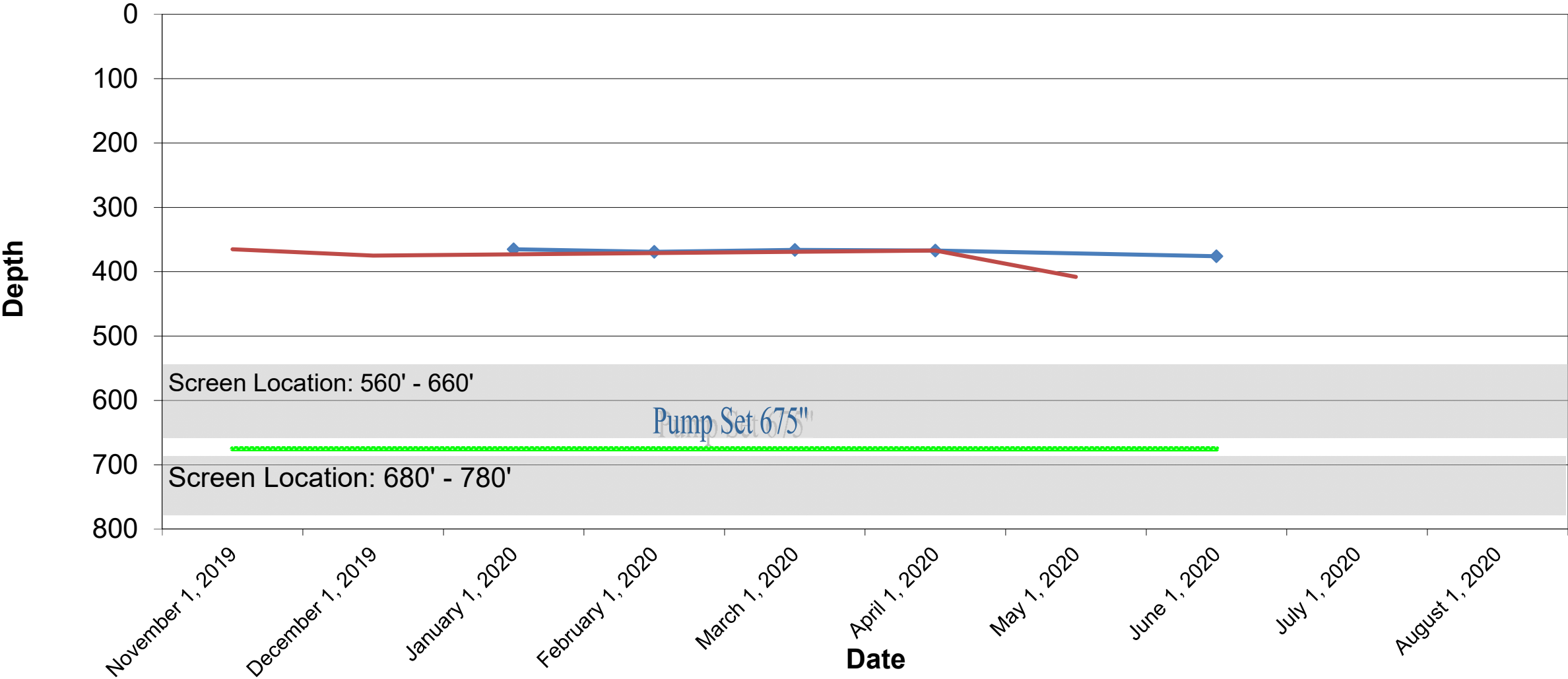
Location: South of Probation
Center
Elevation: 734' MSL
Installed: July 21, 1990
State Well #: 4410014-024
Completed Depth: 540'



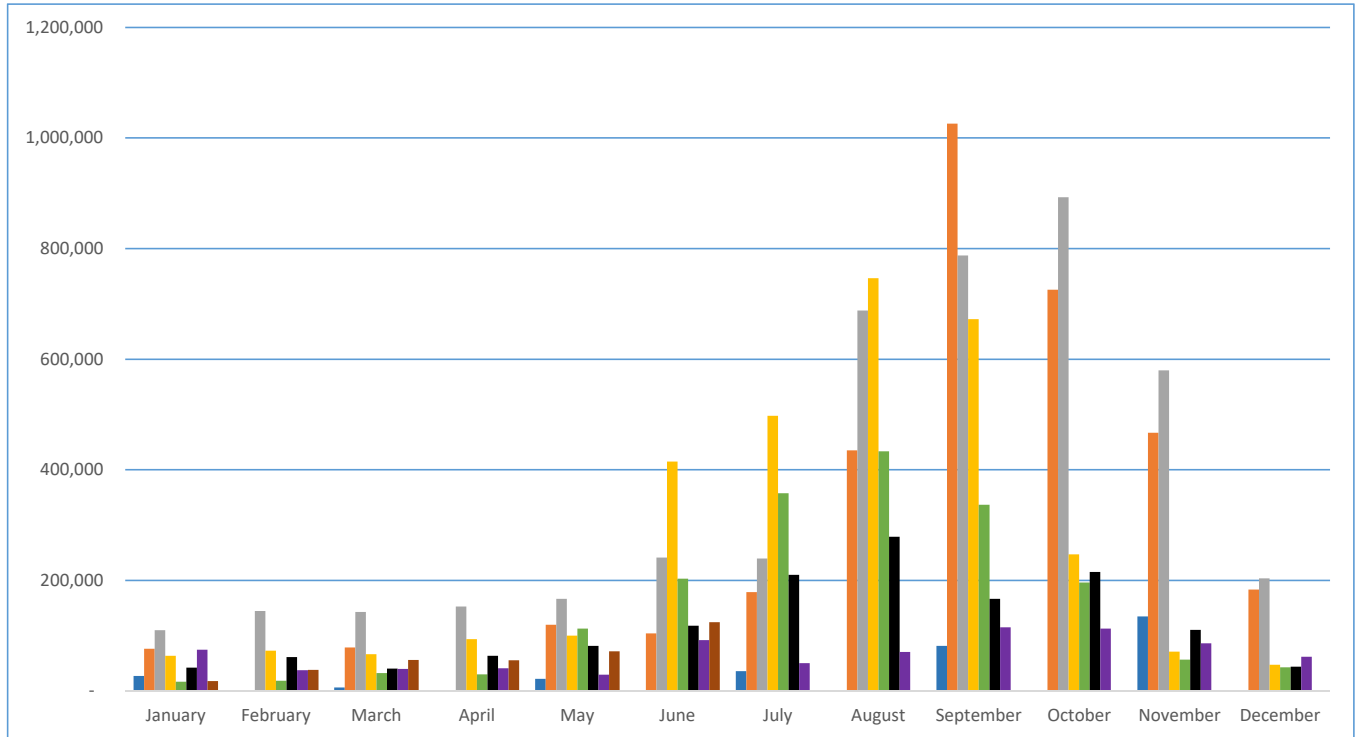


SAN LORENZO VALLEY WATER DISTRICT
Well Drawdown Report
Pasatiempo 8

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
June 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	71,808
June		103,972	240,983	415,140	203,179	118,184	92,004	124,168
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	363,528

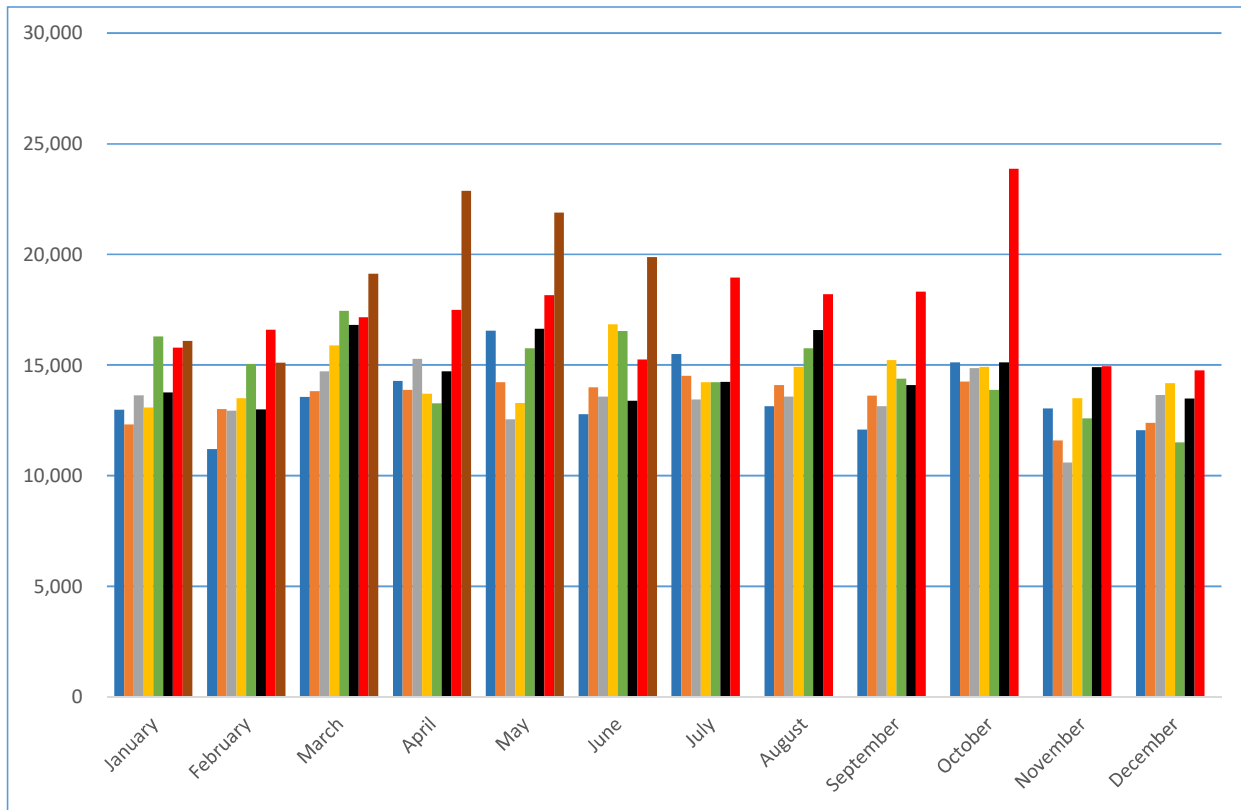
SAN LORENZO VALLEY WATER DISTRICT
MONTHLY LEAK REPORT
June 2020

Leak Type	Location - NORTH SYSTEM	Town	Gallons Lost
400 MAIN LEAKING	400 BERTS DR	BEN LOMOND	5,760
400 MAIN LEAKING	417 BAHR DR.	BEN LOMOND	1,800
400 MAIN LEAKING	9737 MANZANITA AVE.	BEN LOMOND	1
400 MAIN LEAKING	GLEN ARBOR RD	BEN LOMOND	47,500
400 MAIN LEAKING	151 S. REDWOOD DR.	BOULDER CREEK	16,800
400 MAIN LEAKING	180 KELLER DR.	BOULDER CREEK	1,440
400 MAIN LEAKING	HIAWATHA	BOULDER CREEK	7,200
400 MAIN LEAKING	280 MESA DR.	BOULDER CREEK	7,200
400 MAIN LEAKING	BEAR CREEK RD & HIAWATHA	BOULDER CREEK	1,200
400 MAIN LEAKING	170 BRIER DR	BOULDER CREEK	240
400 MAIN LEAKING	320 JUANITA RD	BOULDER CREEK	100
400 MAIN LEAKING	15115 HWY 9	BOULDER CREEK	240
400 MAIN LEAKING	MANZANITA RD & RIVER DR	BOULDER CREEK	300
400 MAIN LEAKING	482 ALDER RD	BOULDER CREEK	11,520
400 MAIN LEAKING	END OF SUNBEAM AVE	BOULDER CREEK	5,040
400 MAIN LEAKING	241 MITCHELL DR	BOULDER CREEK	1,800
412 TANK LEAKING	360 BLUERIDGE DR.	BOULDER CREEK	10,080
400 MAIN LEAKING	15675 HWY 9	BOULDER CREEK	30,650
Total North			148,871
FELTON SYSTEM			
400 MAIN LEAKING	5390 MCKINLEY WAY	FELTON	10
412 TANK LEAKING	1079 PINE DR	FELTON	2.5
Total Felton			13
LOMPICO			
400 MAIN LEAKING	11409 UTILITY POLE	LOMPICO	1,440
400 MAIN LEAKING	12089 COLEMAN AVE.	LOMPICO	1,440
Total Lompico			2,880
SCOTTS VALLEY			
Total Scotts Valley			-
Total All Systems			151,764

SAN LORENZO VALLEY WATER DISTRICT

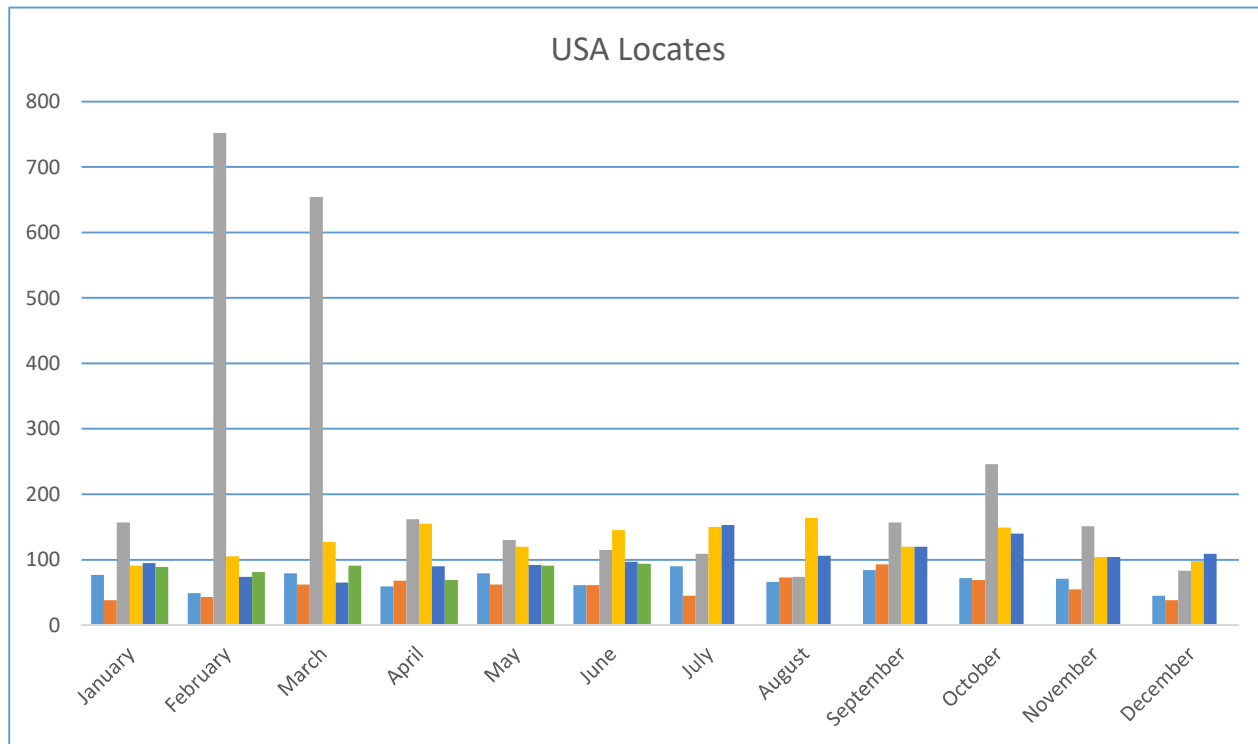
VEHICLE MILEAGE

June 2020



Month	2013	2014	2015	2016	2017	2018	2019	2020
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	21,879
June	12,780	14,000	13,582	16,841	16,534	13,390	15,249	19,882
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	114,962

SAN LORENZO VALLEY WATER DISTRICT
OPERATIONS DEPARTMENT
 June 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	91
June	61	61	115	145	97	94
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	515

