



**Date:** August 26, 2019

**To:** **Engineering and Operations Committee**  
Tom Campbell, Chair  
Ed Colley  
William Cooper  
Gary Martin  
Lynne Plambeck

**From:** Brian J. Folsom, Chief Engineer *BJF*  
Keith Abercrombie, Chief Operating Officer *KA*

The **Engineering and Operations Committee** is scheduled to meet on **Thursday, September 5, 2019 at 5:30 PM at Earl Schmidt Filtration Plant** located at 32700 Lake Hughes Road, Castaic, CA 91384 in the Conference Room.

### MEETING AGENDA

<u>ITEM</u>		<u>PAGE</u>
1.	Public Comments	
2.	Tour of the Earl Schmidt Filtration Plant	
3. *	Recommend Approval of the Purchase of a Chlorine Scrubber System for the Rio Vista Water Treatment Plant	3
4. *	Recommend Approval for an Agreement Amendment to The Newhall Land and Farming Company, LLC, for the Magic Mountain Water Pipeline Installation Agreement	5
5. *	Operations and Production Report	7
6. *	Capital Improvement Projects Construction Status Report	65
7. *	Committee Planning Calendar	67
8.	General Report on Treatment, Distribution, Operations and Maintenance Services Section Activities	
9.	General Report on Engineering Services Section Activities	

10. Adjournment

\* Indicates attachments

◆ To be distributed

**NOTICES:**

Any person may make a request for a disability-related modification or accommodation needed for that person to be able to participate in the public meeting by telephoning (661) 297-1600, or writing to Santa Clarita Valley Water Agency at 27234 Bouquet Canyon Road, Santa Clarita, CA 91350. Requests must specify the nature of the disability and the type of accommodation requested. A telephone number or other contact information should be included so that Agency staff may discuss appropriate arrangements. Persons requesting a disability-related accommodation should make the request with adequate time before the meeting for the Agency to provide the requested accommodation.

Pursuant to Government Code Section 54957.5, non-exempt public records that relate to open session agenda items and are distributed to a majority of the Board less than seventy-two (72) hours prior to the meeting will be available for public inspection at the Santa Clarita Valley Water Agency, located at 27234 Bouquet Canyon Road, Santa Clarita, California 91350, during regular business hours. When practical, these public records will also be made available on the Agency's Internet Website, accessible at <http://www.yourscvwater.com>.

Posted on August 28, 2019.

MGS



# COMMITTEE MEMORANDUM

**DATE:** August 20, 2019

**TO:** Engineering and Operations Committee

**FROM:** Keith Abercrombie *KA*  
Chief Operating Officer

**SUBJECT:** Recommend Approval of the Purchase of a Chlorine Scrubber System for the Rio Vista Water Treatment Plant

## SUMMARY

The Rio Vista Water Treatment Plant (RVWTP) Chlorine Scrubber system is a 'wet-type' scrubber system which utilizes caustic soda to neutralize chlorine. The scrubber was installed in 2001, underwent extensive refurbishment in 2009 and has now reached the end of its useful life. Staff has received bids to replace the scrubber with a 'dry-type scrubber' which uses pellets formulated with activated alumina, activated carbon, bonded sodium thiosulfate or other similar formulations to neutralize chlorine. Unlike the 'wet-type' media (caustic soda), this pelletized media is classified as a non-hazardous waste. Bids have been received and staff is recommending award of a purchase contract.

## DISCUSSION

The RVWTP utilizes chlorine gas to disinfect the treated water. A chlorine scrubber is part of the required emergency equipment that serves to neutralize any chlorine leaks before they are released into the environment. The current 'wet-type' chlorine scrubber has reached the end of its useful life and needs to be replaced. The trend in water treatment systems over the past 10+ years has been to move away from 'wet-type' scrubbers which utilize caustic soda which is a hazardous material and requires specialized training and precautions, to 'dry-type' scrubbers which use a dry media that is classified as a non-hazardous waste and is much safer to use.

Staff solicited bids from four vendors and two vendors provided proposals.

Bidder	Total Base Bid Price
Pure Air Filtration LLC	\$ 200,658
De Nora Water Technologies, Inc.	\$ 232,000

The apparent low bid is from Pure Air Filtration for a total of \$200,658.

## CEQA DETERMINATION

The proposed actions are categorically exempt under the provisions of CEQA and the State CEQA Guidelines. The proposed actions consist of awarding a contract to modify the existing RVWTP chlorine scrubber system. The modification to the chlorine scrubber system will not result in expansion of treatment capacity beyond current levels. The proposed actions will not have a significant effect on the physical environment. Accordingly, the CEQA determination is

that the proposed action qualifies as a Class 1 Categorical Exemption (Section 15301 of the State CEQA Guidelines).

**FINANCIAL CONSIDERATIONS**

The replacement of the RVWTP emergency chlorine scrubber is included in the SCV Water FY 2019/20 Minor Capital budget with sufficient funding for this project.

**RECOMMENDATION**

That the Engineering and Operations Committee recommends that the Board of Directors approve the purchase of a new 'dry-type' emergency chlorine scrubber from Pure Air Filtration, LLC, in the amount of \$200,658.

MBS



## COMMITTEE MEMORANDUM

**DATE:** August 19, 2019

**TO:** Engineering and Operations Committee

**FROM:** Brian J. Folsom, P.E. *BJF*  
Chief Engineer

**SUBJECT:** Recommend Approval for an Agreement Amendment to The Newhall Land and Farming Company, LLC, for the Magic Mountain Water Pipeline Installation Agreement

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### SUMMARY

On February 11, 2015, the Castaic Lake Water Agency (CLWA) Board of Directors authorized the General Manager to execute the Magic Mountain Water Pipeline Installation Agreement (Agreement) with The Newhall Land and Farming Company, LLC, (Newhall Land) for installation of the Agency's Magic Mountain Pipeline Phases 4-6. Staff is recommending amending the Agreement to include installation of the Commerce Center Drive Pipeline.

### DISCUSSION

On February 11, 2015, the Castaic Lake Water Agency (CLWA) Board of Directors authorized the General Manager to execute the Magic Mountain Water Pipeline Installation Agreement with Newhall Land for installation of the Agency's Magic Mountain Pipeline Phases 4-6. The Agreement provides that Newhall Land constructs the pipelines in accordance with the Agency's plans and specifications and the Agency reimburses Newhall Land for the construction costs. In accordance with the terms of the agreement Magic Mountain Pipeline Phases 4 and 5 are currently in construction and design of Phases 6A and 6B is underway.

The proposed Commerce Center Drive Pipeline is a 1,000 foot long, 30-inch diameter pipeline that will connect the two future Replacement Wells, which are currently in design, to the Magic Mountain Pipeline Phase 5 pipeline. The estimated construction cost of the Commerce Center Drive Pipeline is \$600,000. Similar to the construction of the Magic Mountain Pipeline Phases 4-6, it would be beneficial, from both a schedule and cost standpoint, to construct the Commerce Center Drive Pipeline as part of the Mission Village road improvements.

Staff is recommending that the Magic Mountain Water Pipeline Installation Agreement be amended to include the Commerce Center Drive Pipeline. With the exception of adding the Commerce Center Drive Pipeline to the Agreement, all other terms and conditions of the Agreement would remain the same.

### FINANCIAL CONSIDERATIONS

The Commerce Center Drive Pipeline is part of the Replacement Wells Project, is included in the Agency's FY 2019/20 Budget and there are adequate funds remaining to initiate this work. In accordance with the Castaic Lake Litigation Settlement Agreement, the Agency's costs for the Replacement Wells Project will be reimbursed by Whitaker-Bermite.

## **RECOMMENDATION**

That the Engineering and Operations Committee recommends that the Board of Directors authorize the General Manager to execute an agreement amendment with Newhall Land and Farming Company, LLC, for the Magic Mountain Water Pipeline Installation Agreement to include the Commerce Center Drive Pipeline.

BJF

MGS



# Monthly Operations & Production Report

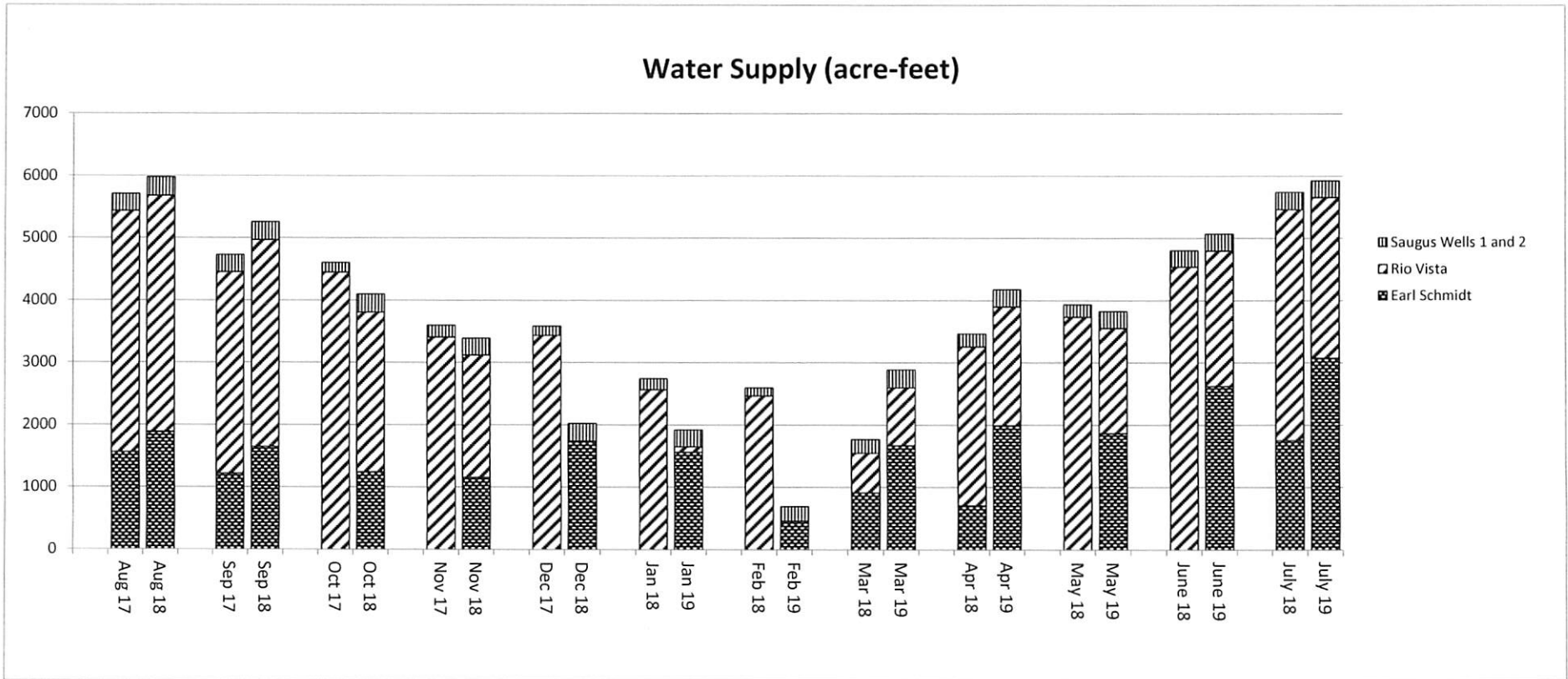
July 2019

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# SANTA CLARITA VALLEY WATER AGENCY

## July 2019 Regional Operations Report



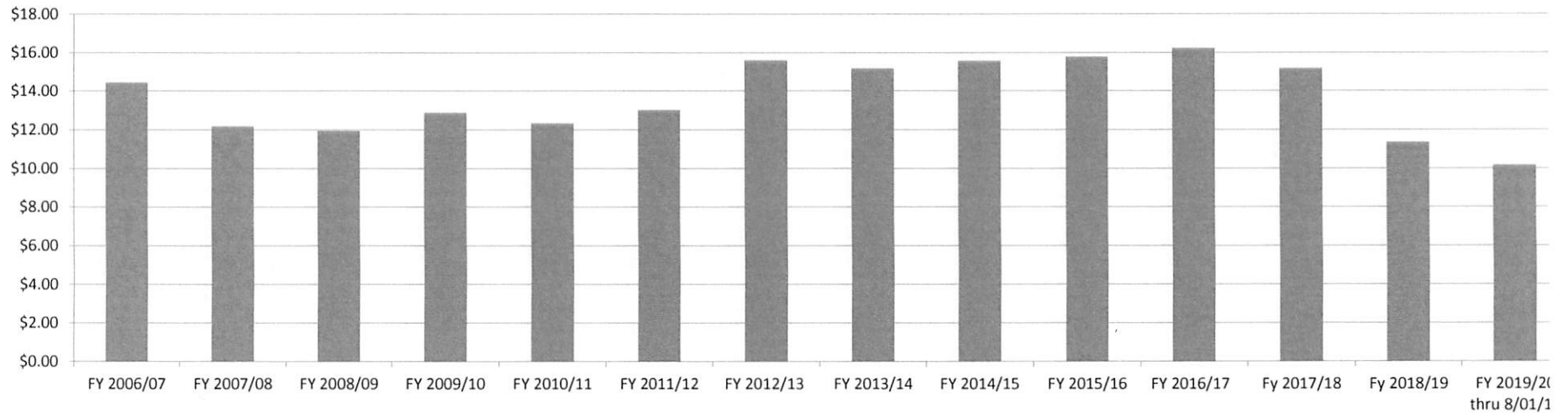
Source	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Total
Earl Schmidt	1885	1645	1237	1154	1736	1560	458	1665	1992	1869	2622	3071	20894
Rio Vista	3793	3322	2570	1961	0	85	0	933	1910	1683	2175	2588	21020
Saugus 1 and 2	300	289	292	272	286	275	230	288	276	277	273	267	3325
<b>Total</b>	<b>5978</b>	<b>5256</b>	<b>4099</b>	<b>3387</b>	<b>2022</b>	<b>1920</b>	<b>688</b>	<b>2886</b>	<b>4178</b>	<b>3829</b>	<b>5070</b>	<b>5926</b>	<b>39313</b>
<b>Total Sold</b>	<b>5855</b>	<b>5160</b>	<b>4011</b>	<b>3349</b>	<b>1947</b>	<b>1805</b>	<b>802</b>	<b>2735</b>	<b>4016</b>	<b>3754</b>	<b>4985</b>	<b>5823</b>	<b>44242</b>
RVWTP Use/Storage	44.11	17.82	60	72	9	80	-78	52.55	66.96	17.54	22.04	35.68	364.02
<b>Total Use</b>	<b>5899.11</b>	<b>5177.82</b>	<b>4071</b>	<b>3421</b>	<b>1956</b>	<b>1885</b>	<b>724</b>	<b>2787.55</b>	<b>4082.96</b>	<b>3771.54</b>	<b>5007.04</b>	<b>5858.68</b>	<b>38783.02</b>
Water Loss	-1.32%	-1.49%	-0.68%	1.00%	-3.26%	-1.82%	5.23%	-3.41%	-2.27%	-1.50%	-1.24%	-1.14%	-1.35%
<b>Recycled Water</b>	<b>Aug-18</b>	<b>Sep-18</b>	<b>Oct-18</b>	<b>Nov-18</b>	<b>Dec-18</b>	<b>Jan-19</b>	<b>Feb-19</b>	<b>Mar-19</b>	<b>Apr-19</b>	<b>May-19</b>	<b>Jun-19</b>	<b>Jul-19</b>	<b>Total</b>
Valencia	75	17	0	0	0	2	0	10	50	36	59	76	325

\* Water loss includes water usage at Rio Vista Water Treatment Plant facilities and system storage.

**Treatment Process  
JULY 2019**

	Perchlorate Raw Water	Perchlorate Finished Water	Raw NTU	Treated NTU	Percent Reduction	Raw Ph	Adjusted pH	Ferric Chloride Dosage	Polymer Dosage	Chlorine Dosage	Ammonia Dosage
Rio Vista			2.23	0.05	97.76%	7.62	8.14	1.11	0.89	4.19	0.84
Earl Schmidt			2.39	0.05	97.91%	7.61	8.04	1.27	1.25	5.14	0.73
Saugus 1 and 2	16	<1				7.52	7.54			3.3	0.66

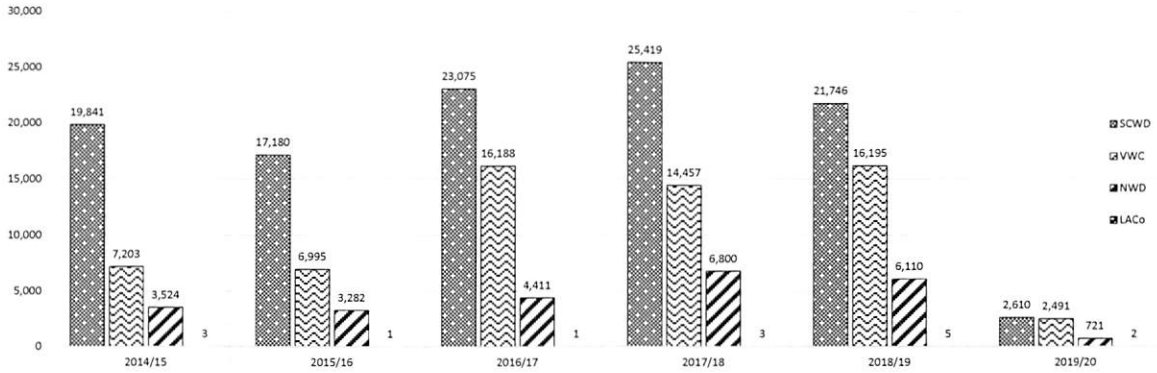
**Chemical Treatment Cost**



	FY 2006/07	FY 2007/08	FY 2008/09	FY 2009/10	FY 2010/11	FY 2011/12	FY 2012/13	FY 2013/14	FY 2014/15	FY 2015/16	FY 2016/17	Fy 2017/18
Acre Feet Treated Imported Water	44,493	44,732	38,275	34,610	33,441	35,653	41,504	44,909	30,571	27,456	43,670	46,672
Chemical Cost Per Acre Foot*	\$14.46	\$12.19	\$11.95	\$12.89	\$12.35	\$13.04	\$15.62	\$15.20	\$15.60	\$15.80	\$16.24	\$15.20

\* The cost per acre foot includes all chemicals used the treatment process: Chlorine Gas, Sodium Hypochlorite, Caustic Soda (Sodium Hydroxide), Ferric Chloride, Ammonia, and Cationic, non-ionic, and anionic polymers as well as the cost of liquid Oxygen, but does not include the electrical costs to produce the Ozone.

### HISTORICAL FY Production 2014-2020



HISTORICAL FY PRODUCTION 2014-2020													
2014/15	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total
SCWD	2,912	2,491	2,177	2,110	1,536	746	990	1,036	1,174	1,365	1,458	1,844	19,841
VWC	1,143	897	718	545	410	340	408	398	400	658	587	700	7,203
NCWD	461	410	389	341	268	135	205	200	244	283	253	334	3,524
LACo	0	0	0	0	0	0	0	0	0	0	0	0	3
<b>Total</b>	<b>4,517</b>	<b>3,798</b>	<b>3,285</b>	<b>2,996</b>	<b>2,215</b>	<b>1,221</b>	<b>1,603</b>	<b>1,635</b>	<b>1,818</b>	<b>2,306</b>	<b>2,299</b>	<b>2,879</b>	<b>30,571</b>
Cum. FYTD	4,517	8,315	11,599	14,596	16,811	18,032	19,635	21,270	23,088	25,393	27,692	30,571	
2015/16	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total
SCWD	1,731	1,800	1,616	1,629	1,427	1,180	829	1,060	1,185	1,176	1,612	1,935	17,180
VWC	691	773	583	550	547	364	157	366	412	462	715	1,375	6,995
NCWD	347	373	325	276	233	199	148	195	206	250	319	411	3,282
LACo	0	0	0	0	0	0	0	1	0	0	0	0	1
<b>Total</b>	<b>2,769</b>	<b>2,946</b>	<b>2,524</b>	<b>2,455</b>	<b>2,207</b>	<b>1,743</b>	<b>1,134</b>	<b>1,622</b>	<b>1,803</b>	<b>1,888</b>	<b>2,646</b>	<b>3,721</b>	<b>27,458</b>
Cum. FYTD	2,769	5,715	8,239	10,694	12,901	14,644	15,778	17,400	19,203	21,091	23,737	27,458	
2016/17	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total
SCWD	2,404	2,663	2,368	2,128	1,712	1,377	952	844	1,359	2,040	2,456	2,772	23,075
VWC	1,565	1,640	1,305	1,080	607	620	643	764	1,123	1,728	2,499	2,614	16,188
NCWD	478	467	418	372	293	234	141	109	216	384	604	695	4,411
LACo	0	0	0	0	0	0	0	0	0	0	0	0	1
<b>Total</b>	<b>4,447</b>	<b>4,770</b>	<b>4,091</b>	<b>3,580</b>	<b>2,612</b>	<b>2,231</b>	<b>1,736</b>	<b>1,716</b>	<b>2,699</b>	<b>4,152</b>	<b>5,559</b>	<b>6,081</b>	<b>43,674</b>
Cum. FYTD	4,447	9,218	13,309	16,888	19,501	21,732	23,467	25,184	27,882	32,034	37,593	43,674	
2017/18	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total
SCWD	3,085	3,035	2,589	2,462	1,922	1,955	1,578	1,580	969	1,905	2,076	2,264	25,419
VWC	2,089	1,723	1,184	1,260	966	969	853	676	619	1,160	1,336	1,622	14,457
NCWD	785	856	845	801	640	556	253	275	157	349	473	808	6,800
LACo	0	0	0	0	0	0	0	1	0	0	1	0	3
<b>Total</b>	<b>5,958</b>	<b>5,615</b>	<b>4,619</b>	<b>4,522</b>	<b>3,528</b>	<b>3,481</b>	<b>2,684</b>	<b>2,532</b>	<b>1,746</b>	<b>3,414</b>	<b>3,885</b>	<b>4,695</b>	<b>46,680</b>
Cum. FYTD	5,958	11,573	16,192	20,714	24,242	27,723	30,407	32,939	34,685	38,099	41,984	46,680	
2018/19	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total
SCWD	2,694	2,816	2,535	2,174	1,882	1,274	1,110	493	1,177	1,770	1,632	2,189	21,746
VWC	1,921	2,026	1,743	1,300	1,084	459	513	232	1,205	1,819	1,701	2,193	16,195
NWD	1,023	1,012	881	537	382	214	181	76	352	428	422	603	6,110
LACo	1	0	0	1	0	0	1	1	1	0	0	0	5
<b>Total</b>	<b>5,639</b>	<b>5,855</b>	<b>5,160</b>	<b>4,011</b>	<b>3,349</b>	<b>1,947</b>	<b>1,805</b>	<b>802</b>	<b>2,735</b>	<b>4,016</b>	<b>3,754</b>	<b>4,985</b>	<b>44,057</b>
Cum. FYTD	5,639	11,494	16,654	20,665	24,014	25,961	27,766	28,567	31,302	35,318	39,072	44,057	
2019/20	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total
SCWD	2,610	0	0	0	0	0	0	0	0	0	0	0	2,610
VWC	2,491	0	0	0	0	0	0	0	0	0	0	0	2,491
NWD	721	0	0	0	0	0	0	0	0	0	0	0	721
LACo	2	0	0	0	0	0	0	0	0	0	0	0	2
<b>Total</b>	<b>5,823</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5,823</b>
Cum. FYTD	5,823	5,823	5,823	5,823	5,823	5,823	5,823	5,823	5,823	5,823	5,823	5,823	

\*Total does not include recycled water.

**SANTA CLARITA VALLEY WATER AGENCY**

*Record of Weather Observations*

July 2019

<b>DATE</b>	<b>High Temperature</b>	<b>Low Temperature</b>	<b>Precipitation 2019</b>	<b>Precipitation 2018</b>
1-Jul	90	53	0.00	0.00
2-Jul	86	55	0.00	0.00
3-Jul	82	60	0.00	0.00
4-Jul	81	56	0.00	0.00
5-Jul	84	52	0.00	0.00
6-Jul	85	54	0.00	0.00
7-Jul	79	57	0.00	0.00
8-Jul	77	56	0.00	0.00
9-Jul	86	55	0.00	0.00
10-Jul	90	53	0.00	0.00
11-Jul	95	55	0.00	0.00
12-Jul	97	59	0.00	0.00
13-Jul	95	59	0.00	0.00
14-Jul	97	57	0.00	0.00
15-Jul	101	61	0.00	0.00
16-Jul	91	63	0.00	0.00
17-Jul	86	59	0.00	0.00
18-Jul	85	59	0.00	0.00
19-Jul	82	56	0.00	0.00
20-Jul	84	56	0.00	0.00
21-Jul	93	53	0.00	0.00
22-Jul	96	58	0.00	0.00
23-Jul	101	68	0.00	0.00
24-Jul	102	65	0.00	0.00
25-Jul	95	72	0.00	0.00
26-Jul	99	64	0.00	0.00
27-Jul	103	62	0.00	0.00
28-Jul	99	64	0.00	0.00
29-Jul	90	57	0.00	0.00
30-Jul	92	63	0.00	0.00
31-Jul	90	58	0.00	0.00

**TOTAL**

**0.00**

**0.00**

**2018-2019**

**2017-2018**

*Total Precipitation of Current Month*

0.00

0.00

*Total Precipitation End of Previous Month*

27.65

11.13

**Total Precipitation Since October 1st**

**27.65**

**11.13**

*Temperature Averages for Current Month*

**HIGH**

90.7

95.4

**LOW**

58.7

64.4

## Santa Clarita Valley Water Agency

### Summary of Annual Precipitation

October 1st through September 30th

(Total in Inches)

	<i>1997-98</i>	<i>1998-99</i>	<i>1999-00</i>	<i>2000-01</i>	<i>2001-02</i>	<i>2002-03</i>	<i>2003-04</i>	<i>2004-05</i>	<i>2005-06</i>	<i>2006-07</i>	<i>2007-08</i>
Oct	0.00	0.33	0.00	1.13	0.22	0.00	1.10	4.79	1.91	0.42	0.25
Nov	3.73	1.39	0.00	0.00	3.18	3.01	0.63	0.64	0.59	0.05	0.50
Dec	6.72	1.39	0.05	0.00	1.30	5.85	2.57	8.54	0.14	0.83	2.67
Jan	3.49	2.08	1.21	5.84	1.55	0.00	0.65	17.06	3.27	1.66	17.54
Feb	22.00	0.65	9.43	10.76	0.51	9.03	8.07	16.69	3.78	1.38	1.82
Mar	5.15	3.00	3.15	3.38	0.38	2.38	0.37	2.70	5.68	0.17	0.10
Apr	2.28	3.78	2.10	2.56	0.05	2.35	0.20	1.42	4.22	0.71	0.07
May	5.50	0.00	0.00	0.00	0.12	1.70	0.00	0.45	0.99	0.00	0.17
Jun	0.06	0.48	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
Jul	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.04	0.00
Aug	0.00	0.00	0.31	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00
Sep	0.21	0.01	0.00	0.00	0.02	0.00	0.00	0.17	0.00	1.32	0.00
<b>TOTAL</b>	<b>49.14</b>	<b>13.11</b>	<b>16.25</b>	<b>23.67</b>	<b>7.34</b>	<b>24.34</b>	<b>13.59</b>	<b>52.55</b>	<b>20.58</b>	<b>6.58</b>	<b>23.12</b>
	<i>2008-09</i>	<i>2009-10</i>	<i>2010-11</i>	<i>2011-12</i>	<i>2012-13</i>	<i>2013-14</i>	<i>2014-15</i>	<i>2015-16</i>	<i>2016-17</i>	<i>2017-18</i>	<i>2018-19</i>
Oct	0.09	4.04	1.34	1.97	0.15	0.11	0.32	0.17	0.43	0.00	0.52
Nov	1.78	0.08	1.87	2.50	2.20	1.41	0.64	0.21	1.49	0.06	1.87
Dec	3.01	4.28	11.97	1.19	1.54	0.37	6.16	0.49	3.44	0.01	2.77
Jan	0.69	9.13	0.96	1.23	1.94	0.06	1.44	6.07	10.30	3.18	8.08
Feb	6.78	4.96	5.36	0.13	0.42	5.26	0.74	0.69	8.98	0.35	8.56
Mar	1.18	0.69	8.86	4.99	1.21	1.64	1.09	2.75	0.33	7.50	4.15
Apr	0.07	2.40	0.12	4.02	0.00	0.31	0.16	0.37	0.09	0.02	0.09
May	0.01	0.07	0.74	0.01	0.74	0.00	0.66	0.09	0.26	0.01	1.60
Jun	0.03	0.00	0.04	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.01
Jul	0.00	0.00	0.01	0.00	0.08	0.02	0.87	0.00	0.01	0.00	0.00
Aug	0.00	0.00	0.00	0.01	0.00	0.05	0.00	0.02	0.07	0.00	
Sep	0.00	0.00	0.00	0.02	0.00	0.00	0.78	0.00	0.13	0.02	
<b>TOTAL</b>	<b>13.64</b>	<b>25.65</b>	<b>31.27</b>	<b>16.07</b>	<b>8.28</b>	<b>9.23</b>	<b>12.87</b>	<b>10.87</b>	<b>25.53</b>	<b>11.15</b>	<b>27.65</b>

SANTA CLARITA VALLEY WATER AGENCY  
WATER PRODUCTION BY WELL 2019 (ACRE-FEET)

NEWHALL WATER DIVISION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
N12	85	72	17	60	41	0	147	0	0	0	0	0	423
N13	95	79	21	139	108	168	78	0	0	0	0	0	688
C1	21	13	3	23	31	36	46	0	0	0	0	0	173
C2	6	5	0	13	18	20	24	0	0	0	0	0	87
C7	22	18	4	29	40	47	59	0	0	0	0	0	218
P1	0	0	0	0	0	0	0	0	0	0	0	0	0
P3	0	0	0	0	0	0	0	0	0	0	0	0	0
P4	0	0	0	0	0	0	0	0	0	0	0	0	0
P5	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>TOTAL NWD</b>	<b>229</b>	<b>187</b>	<b>45</b>	<b>265</b>	<b>238</b>	<b>271</b>	<b>353</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1588</b>

SANTA CLARITA WATER DIVISION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
LOST CANYON NO.2	0	8	0	0	0	14	16	0	0	0	0	0	38
LOST CANYON NO.2A	0	24	1	30	59	50	33	0	0	0	0	0	197
SAND CANYON	3	29	1	38	69	91	27	0	0	0	0	0	258
MITCHELL 5A	0	0	0	0	0	0	0	0	0	0	0	0	0
MITCHELL 5B	0	0	0	0	0	0	0	0	0	0	0	0	0
SIERRA	15	54	1	1	6	41	5	0	0	0	0	0	123
NORTH OAKS EAST	2	35	1	2	1	2	1	0	0	0	0	0	44
NORTH OAKS CENTRAL	2	47	2	2	1	3	2	0	0	0	0	0	59
NORTH OAKS WEST	0	0	0	0	0	0	0	0	0	0	0	0	0
HONBY	1	2	0	0	0	0	1	0	0	0	0	0	4
GUIDA	25	31	0	41	34	53	13	0	0	0	0	0	197
CLARK	19	32	0	29	25	39	7	0	0	0	0	0	151
SANTA CLARA	1	37	1	1	1	2	0	0	0	0	0	0	43
VALLEY CENTER	54	55	1	72	75	2	0	0	0	0	0	0	259
<b>TOTAL SCWD</b>	<b>122</b>	<b>354</b>	<b>8</b>	<b>216</b>	<b>271</b>	<b>297</b>	<b>105</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1373</b>

VALENCIA WATER DIVISION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
D	34	28	8	5	5	6	7	0	0	0	0	0	93
E15	35	21	1	6	9	8	11	0	0	0	0	0	92
N	20	36	5	25	30	37	43	0	0	0	0	0	195
N7	91	23	8	23	40	49	43	0	0	0	0	0	277
N8	39	16	2	33	27	37	100	0	0	0	0	0	254
Q2	64	52	4	20	18	0	0	0	0	0	0	0	157
T7	8	4	2	4	6	7	21	0	0	0	0	0	52
U6	2	3	2	5	6	8	33	0	0	0	0	0	59
U4	3	2	1	3	3	3	18	0	0	0	0	0	31
S6	64	74	13	33	50	64	26	0	0	0	0	0	324
S7	24	24	8	5	13	8	10	0	0	0	0	0	93
S8	9	30	4	9	9	13	2	0	0	0	0	0	76
W11	24	30	2	56	49	73	88	0	0	0	0	0	321
W9	22	9	5	39	36	41	98	0	0	0	0	0	250
W10	87	61	8	36	52	74	71	0	0	0	0	0	389
159 (GOLF COURSE IRRIGATION)	0	0	0	0	0	5	0	0	0	0	0	0	5
160 (SYSTEM)	2	2	1	1	2	1	2	0	0	0	0	0	11
160 (GOLF COURSE IRRIGATION)	10	4	19	56	45	66	90	0	0	0	0	0	291
201 (SYSTEM)	0	0	0	0	0	0	0	0	0	0	0	0	0
205	0	0	0	0	0	0	0	0	0	0	0	0	0
206	95	84	7	42	37	54	58	0	0	0	0	0	376
207	120	66	6	57	54	50	116	0	0	0	0	0	468
<b>TOTAL VWD</b>	<b>752</b>	<b>569</b>	<b>106</b>	<b>457</b>	<b>491</b>	<b>605</b>	<b>834</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3814</b>

S1	143	116	149	146	149	142	140	0	0	0	0	0	984
S2	132	114	139	130	128	131	127	0	0	0	0	0	901
<b>TOTAL S1 &amp; S2</b>	<b>275</b>	<b>230</b>	<b>288</b>	<b>276</b>	<b>277</b>	<b>273</b>	<b>267</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1886</b>

<b>TOTAL WELL PRODUCTION</b>	<b>1378</b>	<b>1340</b>	<b>447</b>	<b>1214</b>	<b>1276</b>	<b>1446</b>	<b>1559</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>8660</b>
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WELL 201 (NON-SYSTEM)	106	31	106	99	108	101	105	0	0	0	0	0	655
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NEWHALL WATER DIVISION  
WATER PRODUCTION 2019 (ACRE-FEET)

GROUNDWATER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
<b>NEWHALL SYSTEM</b>													
N12	85	72	17	60	41	0	147						423
N13	95	79	21	139	108	168	78						688
<b>CASTAIC SYSTEM</b>													
C1	21	13	3	23	31	36	46						173
C2	6	5	0	13	18	20	24						87
C7	22	18	4	29	40	47	59						218
<b>PINETREE SYSTEM</b>													
P1	0	0	0	0	0	0	0						0
P3	0	0	0	0	0	0	0						0
P4	0	0	0	0	0	0	0						0
P5	0	0	0	0	0	0	0						0
S1 & S2	74	62	77	74	74	73	72						505
<b>TOTAL GROUNDWATER</b>	<b>303</b>	<b>249</b>	<b>122</b>	<b>338</b>	<b>312</b>	<b>344</b>	<b>425</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2093</b>
<b>IMPORT + S1 &amp; S2</b>													
<b>NEWHALL SYSTEM</b>													
N-3	13	1	156	109	162	216	233						890
<b>CASTAIC SYSTEM</b>													
N-1	39	18	69	76	46	67	74						389
<b>PINETREE SYSTEM</b>													
N-2	87	48	88	156	139	197	233						949
<b>TESORO SYSTEM</b>													
N-4	41	10	40	86	75	122	180						554
<b>TOTAL IMPORT + S1 &amp; S2</b>	<b>181</b>	<b>76</b>	<b>352</b>	<b>428</b>	<b>422</b>	<b>603</b>	<b>721</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2782</b>
<b>TOTAL GROUNDWATER (INCLUDES S1 &amp; S2)</b>	<b>303</b>	<b>249</b>	<b>122</b>	<b>338</b>	<b>312</b>	<b>344</b>	<b>425</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2093</b>
<b>TOTAL IMPORT (NO S1 &amp; S2)</b>	<b>107</b>	<b>15</b>	<b>275</b>	<b>354</b>	<b>348</b>	<b>530</b>	<b>649</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2277</b>
<b>TOTAL GROSS PRODUCTION (GW + IMPORT)</b>	<b>410</b>	<b>263</b>	<b>397</b>	<b>692</b>	<b>660</b>	<b>874</b>	<b>1074</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4370</b>
<b>TOTAL INTERTIE TRANSFERS</b>	<b>0</b>	<b>50</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-13</b>	<b>-52</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-15</b>
<b>TOTAL NET PRODUCTION</b>	<b>410</b>	<b>314</b>	<b>397</b>	<b>692</b>	<b>660</b>	<b>861</b>	<b>1022</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4355</b>
<b>% BY SOURCE</b>													
GROUNDWATER	74%	79%	31%	49%	47%	40%	42%						48%
IMPORT	26%	5%	69%	51%	53%	62%	64%						52%
INTERTIE	0%	16%	0%	0%	0%	-2%	-5%						0%

**SANTA CLARITA WATER DIVISION  
WATER PRODUCTION 2019 (ACRE-FEET)**

<b>GROUNDWATER</b>	<b>JAN</b>	<b>FEB</b>	<b>MAR</b>	<b>APR</b>	<b>MAY</b>	<b>JUN</b>	<b>JUL</b>	<b>AUG</b>	<b>SEP</b>	<b>OCT</b>	<b>NOV</b>	<b>DEC</b>	<b>TOTAL</b>
LOST CANYON NO.2	0	8	0	0	0	14	16						38
LOST CANYON NO.2A	0	24	1	30	59	50	33						197
SAND CANYON	3	29	1	38	69	91	27						258
MITCHELL 5A	0	0	0	0	0	0	0						0
MITCHELL 5B	0	0	0	0	0	0	0						0
SIERRA	15	54	1	1	6	41	5						123
NORTH OAKS EAST	2	35	1	2	1	2	1						44
NORTH OAKS CENTRAL	2	47	2	2	1	3	2						59
NORTH OAKS WEST	0	0	0	0	0	0	0						0
HONBY	1	2	0	0	0	0	1						4
GUIDA	25	31	0	41	34	53	13						197
CLARK	19	32	0	29	25	39	7						151
SANTA CLARA	1	37	1	1	1	2	0						43
VALLEY CENTER	54	55	1	72	75	2	0						259
<b>TOTAL ALLUVIUM</b>	<b>122</b>	<b>354</b>	<b>8</b>	<b>216</b>	<b>271</b>	<b>297</b>	<b>105</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1373</b>
<b>SAUGUS WELLS S1 &amp; S2</b>	<b>201</b>	<b>168</b>	<b>211</b>	<b>202</b>	<b>203</b>	<b>200</b>	<b>196</b>						<b>1380</b>
<b>TOTAL GROUNDWATER</b>	<b>323</b>	<b>522</b>	<b>219</b>	<b>418</b>	<b>474</b>	<b>497</b>	<b>301</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2753</b>
<b>IMPORT + S1 &amp; S2</b>	<b>JAN</b>	<b>FEB</b>	<b>MAR</b>	<b>APR</b>	<b>MAY</b>	<b>JUN</b>	<b>JUL</b>	<b>AUG</b>	<b>SEP</b>	<b>OCT</b>	<b>NOV</b>	<b>DEC</b>	<b>TOTAL</b>
SC-1 BOUQUET	191	83	175	136	143	171	233						1131
SC-2 HONBY	179	2	126	166	171	250	307						1202
SC-3 WILEY	50	52	52	93	79	111	185						622
SC-4 HONBY #2	200	119	284	320	354	520	614						2410
SC-5 RIO VISTA	0	0	38	194	204	250	237						923
SC-6 LOST CANYON	55	68	26	219	95	126	200						789
SC-7	26	12	50	52	52	110	117						419
SC-8	79	20	112	131	215	303	324						1185
SC-9	40	50	70	85	46	52	130						473
SC-10	35	17	76	172	67	25	24						416
SC-11	38	2	17	0	6	2	5						70
SC-12	180	66	115	140	125	166	176						967
SC-13	37	1	37	62	73	104	59						372
<b>TOTAL IMPORT + S1 &amp; S2</b>	<b>1110</b>	<b>493</b>	<b>1,177</b>	<b>1,770</b>	<b>1,632</b>	<b>2,189</b>	<b>2,610</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>10,980</b>
<b>METERING ADJUSTMENT</b>	<b>-9</b>	<b>-5</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-3</b>	<b>0</b>						<b>-18</b>
<b>NET IMPORT + S1 &amp; S2</b>	<b>1,100</b>	<b>488</b>	<b>1,177</b>	<b>1,770</b>	<b>1,632</b>	<b>2,186</b>	<b>2,610</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>10,963</b>
<b>TOTAL GROUNDWATER (INCLUDES S1 &amp; S2)</b>	<b>323</b>	<b>522</b>	<b>219</b>	<b>418</b>	<b>474</b>	<b>497</b>	<b>301</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2753</b>
<b>TOTAL IMPORT (NO S1 &amp; S2)</b>	<b>908</b>	<b>324</b>	<b>967</b>	<b>1,568</b>	<b>1,429</b>	<b>1,989</b>	<b>2,415</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>9,600</b>
<b>TOTAL GROSS PRODUCTION (GW + IMPORT)</b>	<b>1,232</b>	<b>847</b>	<b>1,185</b>	<b>1,986</b>	<b>1,903</b>	<b>2,486</b>	<b>2,715</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>12,353</b>
<b>TOTAL INTERTIE TRANSFERS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>						<b>0</b>
<b>TOTAL NET PRODUCTION</b>	<b>1,232</b>	<b>847</b>	<b>1,185</b>	<b>1,986</b>	<b>1,903</b>	<b>2,486</b>	<b>2,715</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>12,353</b>
<b>% BY SOURCE</b>													
GROUNDWATER	26%	62%	18%	21%	25%	20%	11%						22%
IMPORT	74%	38%	82%	79%	75%	80%	89%						78%
INTERTIE	0%	0%	0%	0%	0%	0%	0%						0%



VALENCIA WATER DIVISION  
WATER PRODUCTION 2019 (ACRE-FEET)

ALLUVIUM	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
D	34	28	8	5	5	6	7						93
E15	35	21	1	6	9	8	11						92
N	20	36	5	25	30	37	43						195
N7	91	23	8	23	40	49	43						277
N8	39	16	2	33	27	37	100						254
Q2	64	52	4	20	18	0	0						157
T7	8	4	2	4	6	7	21						52
U6	2	3	2	5	6	8	33						59
U4	3	2	1	3	3	3	18						31
S6	64	74	13	33	50	64	26						324
S7	24	24	8	5	13	8	10						93
S8	9	30	4	9	9	13	2						76
W11	24	30	2	56	49	73	88						321
W9	22	9	5	39	36	41	98						250
W10	87	61	8	36	52	74	71						389
<b>TOTAL ALLUVIUM</b>	<b>525</b>	<b>412</b>	<b>73</b>	<b>302</b>	<b>353</b>	<b>428</b>	<b>568</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2662</b>
SAUGUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
159	0	0	0	0	0	5	0						5
160 - DOM	2	2	1	1	2	1	2						11
160 - VGC*	10	4	19	56	45	66	90						291
201	0	0	0	0	0	0	0						0
205	0	0	0	0	0	0	0						0
206	95	84	7	42	37	54	58						376
207	120	66	6	57	54	50	116						468
<b>TOTAL SAUGUS</b>	<b>226</b>	<b>157</b>	<b>33</b>	<b>156</b>	<b>138</b>	<b>177</b>	<b>265</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1151</b>
IMPORT WATER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
V-1	83	23	115	160	204	240	323						1147
V-2	65	42	180	351	289	427	452						1805
V-4	25	14	154	251	229	266	311						1250
V-5	96	63	180	143	159	307	447						1395
V-6	99	37	84	60	67	67	70						484
V-7	18	8	61	160	115	148	150						659
V-8	128	46	431	694	637	738	738						3412
<b>TOTAL IMPORT</b>	<b>513</b>	<b>232</b>	<b>1205</b>	<b>1,819</b>	<b>1,701</b>	<b>2,193</b>	<b>2,491</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>10,152</b>
<b>TOTAL GROUNDWATER</b>	<b>752</b>	<b>569</b>	<b>106</b>	<b>457</b>	<b>491</b>	<b>605</b>	<b>834</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3,814</b>
<b>TOTAL IMPORT</b>	<b>513</b>	<b>232</b>	<b>1,205</b>	<b>1,819</b>	<b>1,701</b>	<b>2,193</b>	<b>2,491</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>10,152</b>
<b>TOTAL GROSS PRODUCTION</b>	<b>1,265</b>	<b>801</b>	<b>1,311</b>	<b>2,276</b>	<b>2,192</b>	<b>2,797</b>	<b>3,324</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>13,966</b>
<b>TOTAL INTERTIE TRANSFERS</b>	<b>0</b>	<b>-50</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>13</b>	<b>52</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>15</b>
<b>TOTAL NET PRODUCTION</b>	<b>1,265</b>	<b>751</b>	<b>1,311</b>	<b>2,276</b>	<b>2,192</b>	<b>2,811</b>	<b>3,377</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>13,981</b>
<b>% BY SOURCE</b>													
GROUNDWATER	59%	71%	7%	18%	21%	20%	23%						26%
IMPORT WATER	41%	29%	93%	82%	79%	80%	77%						74%
INTERTIE	0%	-7%	0%	0%	0%	0%	2%						0%
<b>RECYCLED WATER</b>	<b>2</b>	<b>0</b>	<b>10</b>	<b>50</b>	<b>36</b>	<b>59</b>	<b>76</b>						<b>233</b>
<b>Well 201 Discharge *</b>	<b>106</b>	<b>31</b>	<b>106</b>	<b>99</b>	<b>108</b>	<b>101</b>	<b>105</b>						<b>655</b>

\*Not used in the calculation for % by source

**LOS ANGELES COUNTY WATERWORKS DISTRICT 36**

**SOURCE**

<b>TURNOUT</b>	<b>Jan-19</b>	<b>Feb-19</b>	<b>Mar-19</b>	<b>Apr-19</b>	<b>May-19</b>	<b>Jun-19</b>	<b>Jul-19</b>	<b>Aug-19</b>	<b>Sep-19</b>	<b>Oct-19</b>	<b>Nov-19</b>	<b>Dec-19</b>	<b>TOTAL</b>
LA 1	0.0491	0	0.0276	0.046	0	0.00	0						0.12
LA 2	1.0925	0.5371	0.5432	0	0	0.00	1.989						4.16
<b>TOTAL</b>	<b>1.1416</b>	<b>0.5371</b>	<b>0.5708</b>	<b>0.046</b>	<b>0</b>	<b>0</b>	<b>1.989</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.00</b>	<b>4.28</b>

**RAW WATER**

<b>SOURCE</b>	<b>Jan-19</b>	<b>Feb-19</b>	<b>Mar-19</b>	<b>Apr-19</b>	<b>May-19</b>	<b>Jun-19</b>	<b>Jul-19</b>	<b>Aug-19</b>	<b>Sep-19</b>	<b>Oct-19</b>	<b>Nov-19</b>	<b>Dec-19</b>	<b>TOTAL</b>
RVTP	85	0	933	1,910	1683	2175	2,588						9,374.04
ESTP	1,560	458	1,665	1,992	1869	2622	3,071						13,236.70
Wells	275	230	288	276	277	273	267						1,885.67
<b>TOTAL</b>	<b>1,920</b>	<b>688</b>	<b>2,886</b>	<b>4,178</b>	<b>3,828</b>	<b>5,071</b>	<b>5,926</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>24,496.40</b>

**S1/S2 TREATMENT**

<b>SOURCE</b>	<b>Jan-19</b>	<b>Feb-19</b>	<b>Mar-19</b>	<b>Apr-19</b>	<b>May-19</b>	<b>Jun-19</b>	<b>Jul-19</b>	<b>Aug-19</b>	<b>Sep-19</b>	<b>Oct-19</b>	<b>Nov-19</b>	<b>Dec-19</b>	<b>TOTAL</b>
S1	143.2	115.9	148.82	145.9	148.67	142.1	139.7						984.31
S2	131.98	114.01	138.91	129.74	128.26	131.08	127.4						901.35
<b>TOTAL</b>	<b>275.17</b>	<b>229.91</b>	<b>287.73</b>	<b>275.65</b>	<b>276.93</b>	<b>273.18</b>	<b>267.1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1885.67</b>



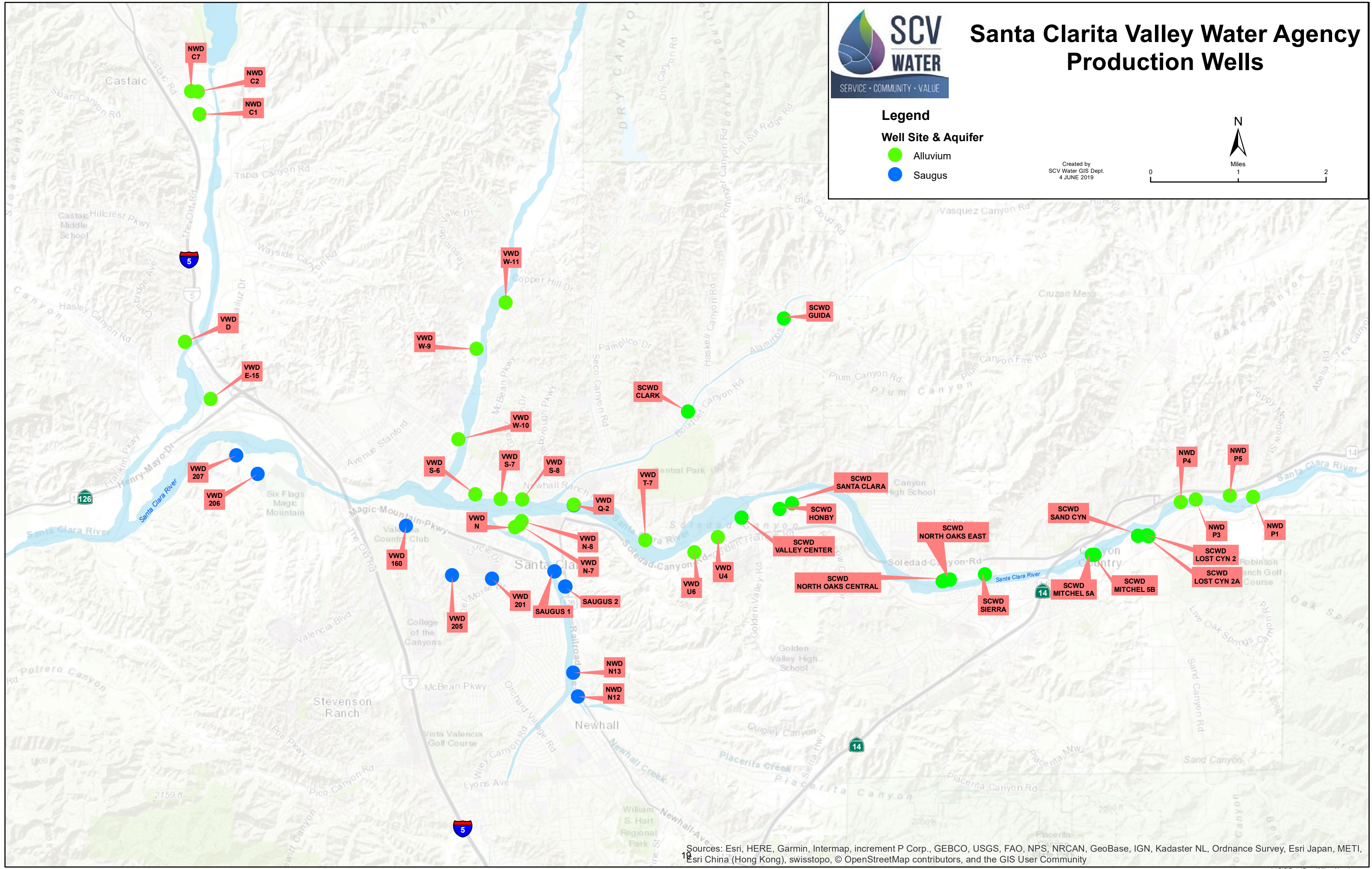
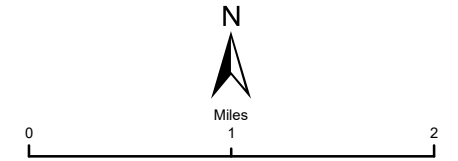
# Santa Clarita Valley Water Agency Production Wells

## Legend

### Well Site & Aquifer

- Alluvium (Green dot)
- Saugus (Blue dot)

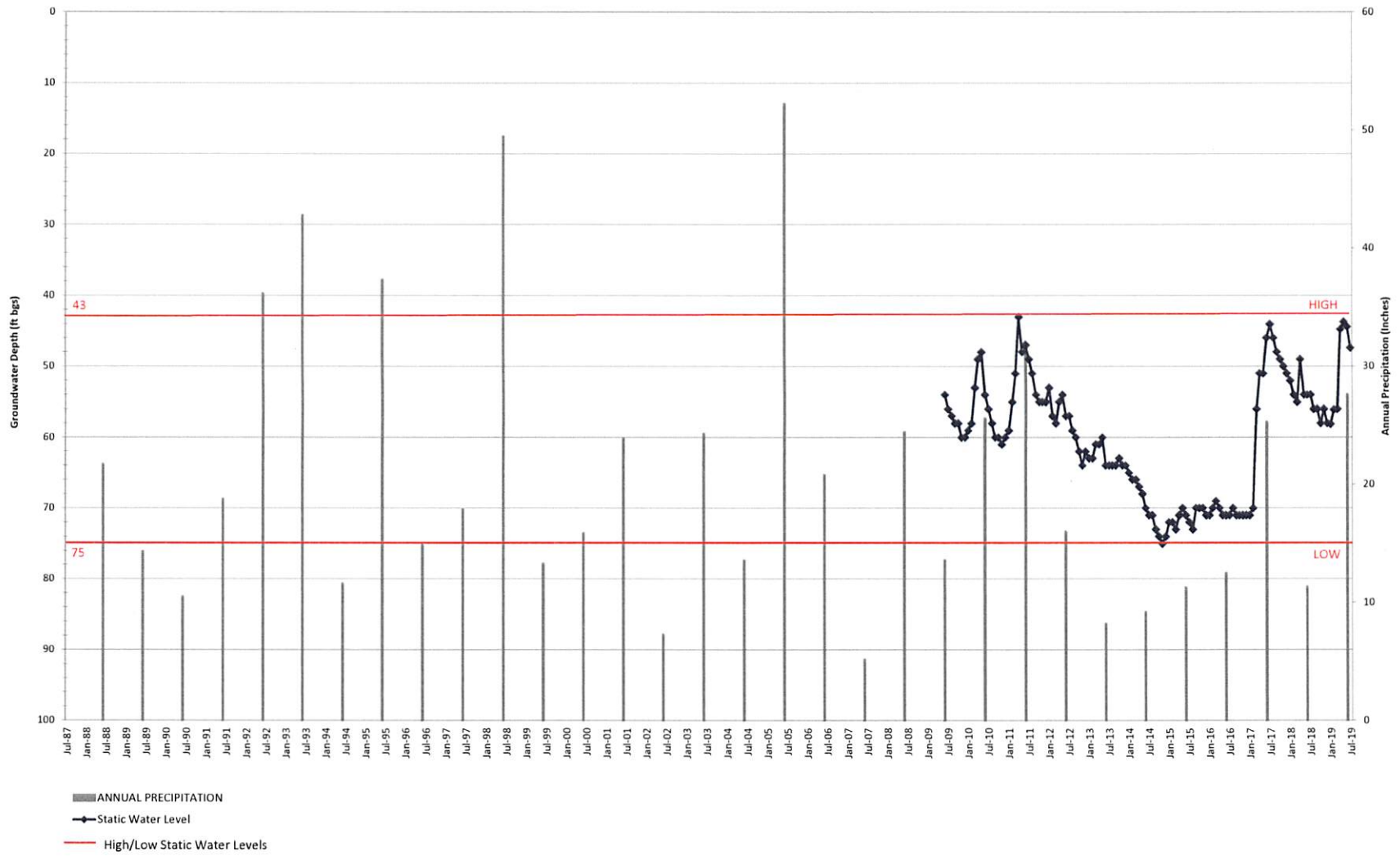
Created by  
SCV Water GIS Dept.  
4 JUNE 2019



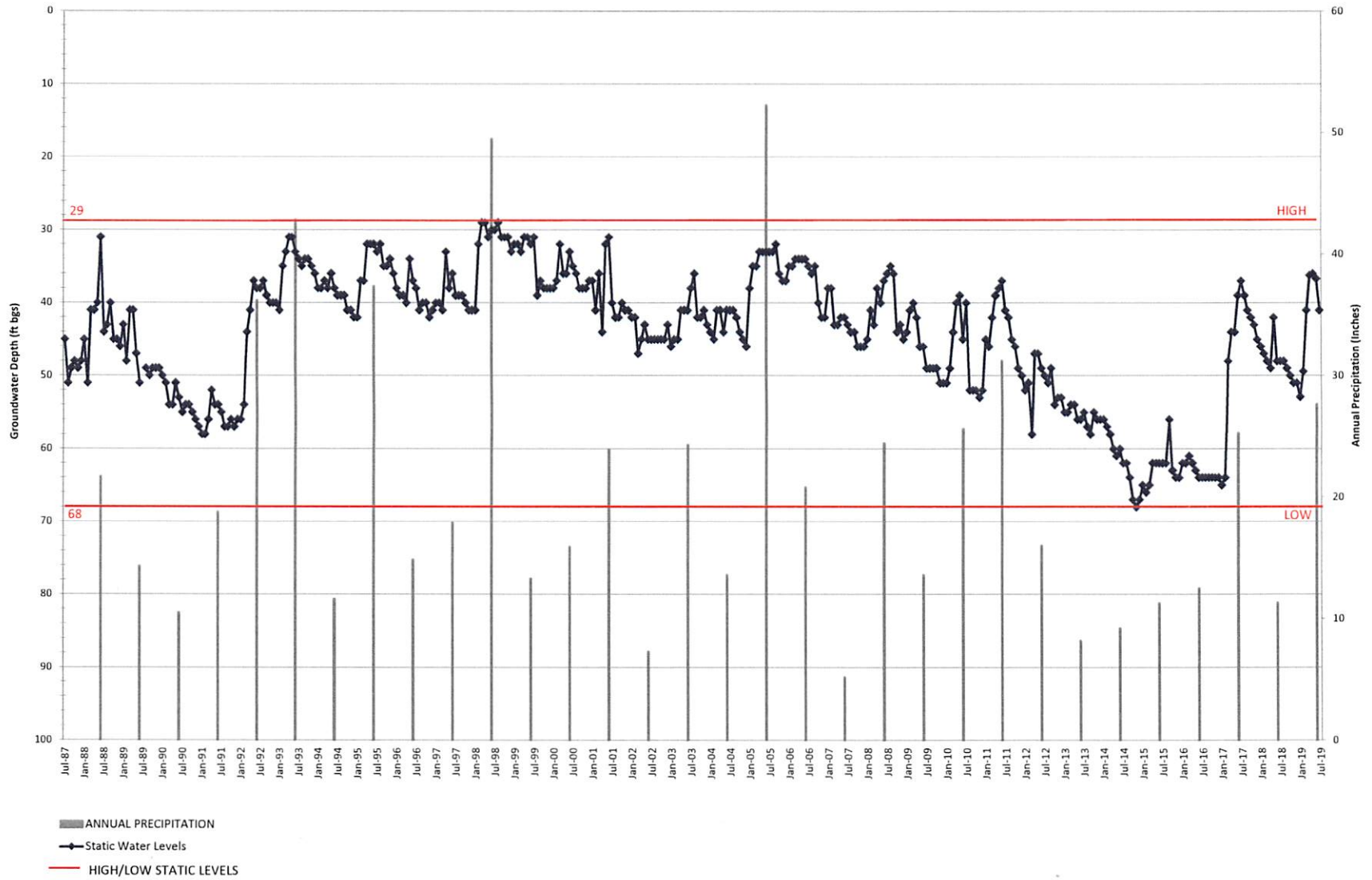
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

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**SCV WATER WELL C7**  
**STATIC WATER LEVEL VS PRECIPITATION**



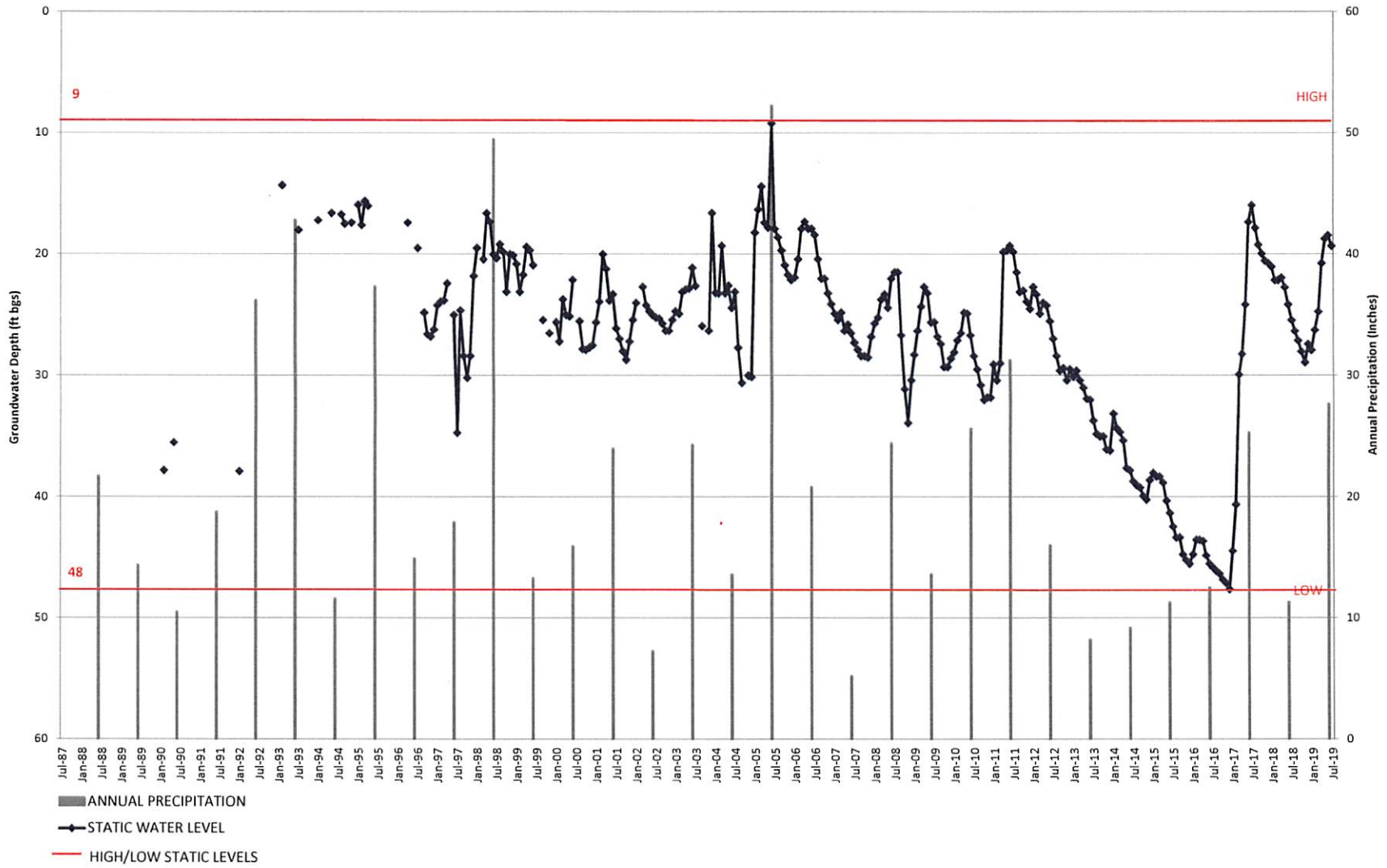
**SCV WATER WELL C2**  
 STATIC WATER LEVEL VS PRECIPITATION



SCV WATER WELL C1  
 STATIC WATER LEVEL VS PRECIPITATION

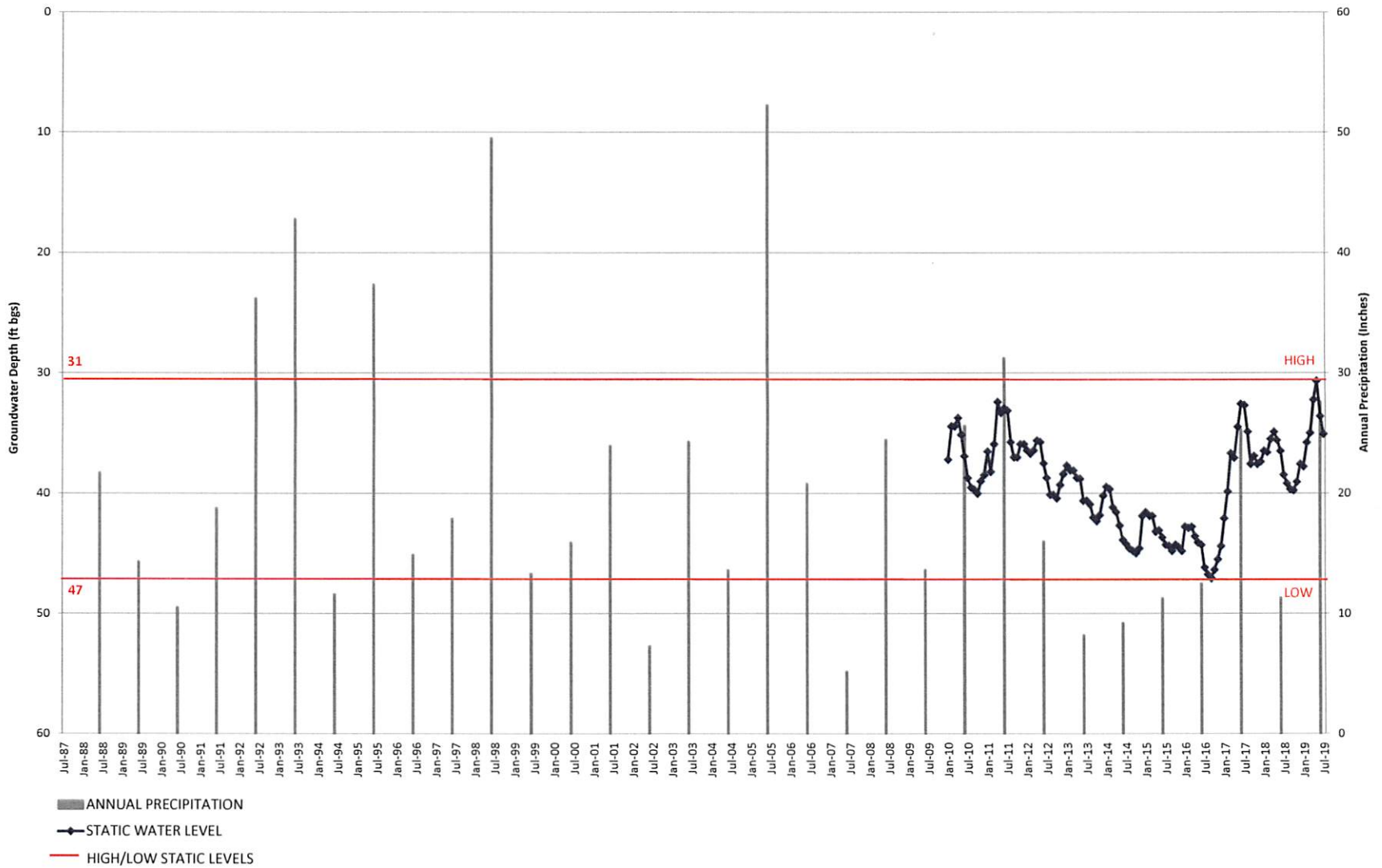


**SCV WATER WELL D**  
 STATIC WATER LEVEL VS PRECIPITATION

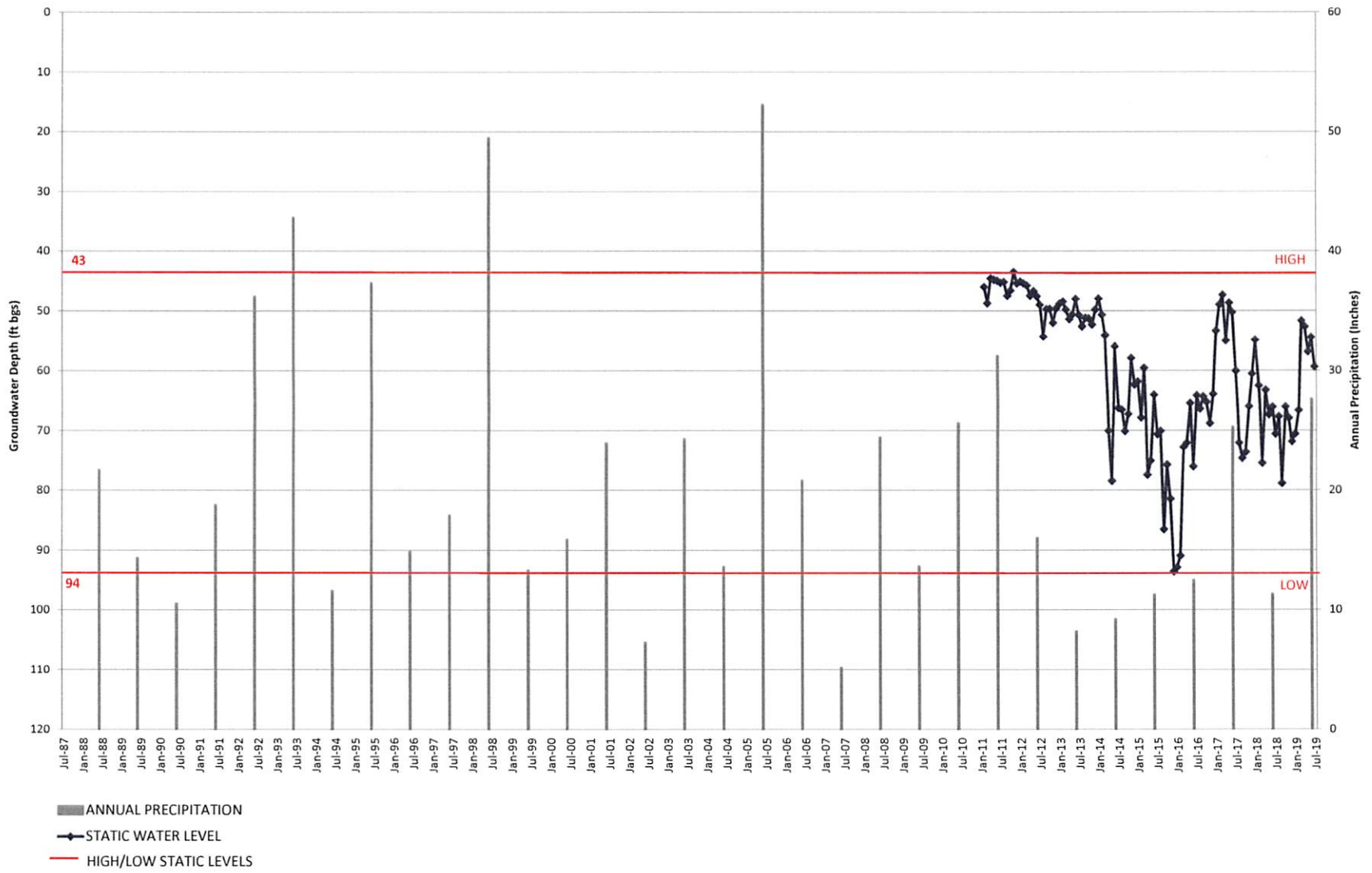




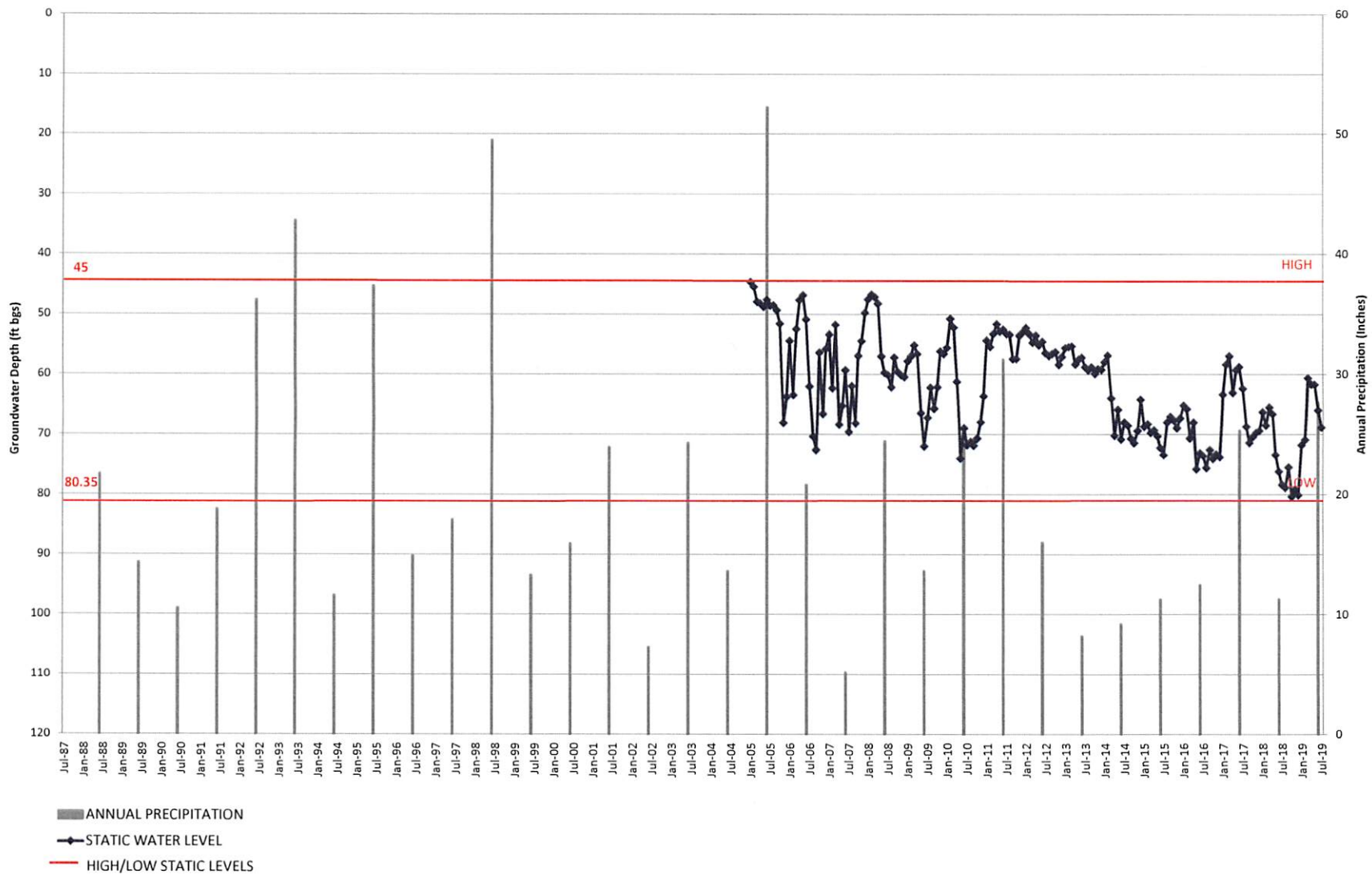
**SCV WATER WELL E15**  
 STATIC WATER LEVEL VS. PRECIPITATION



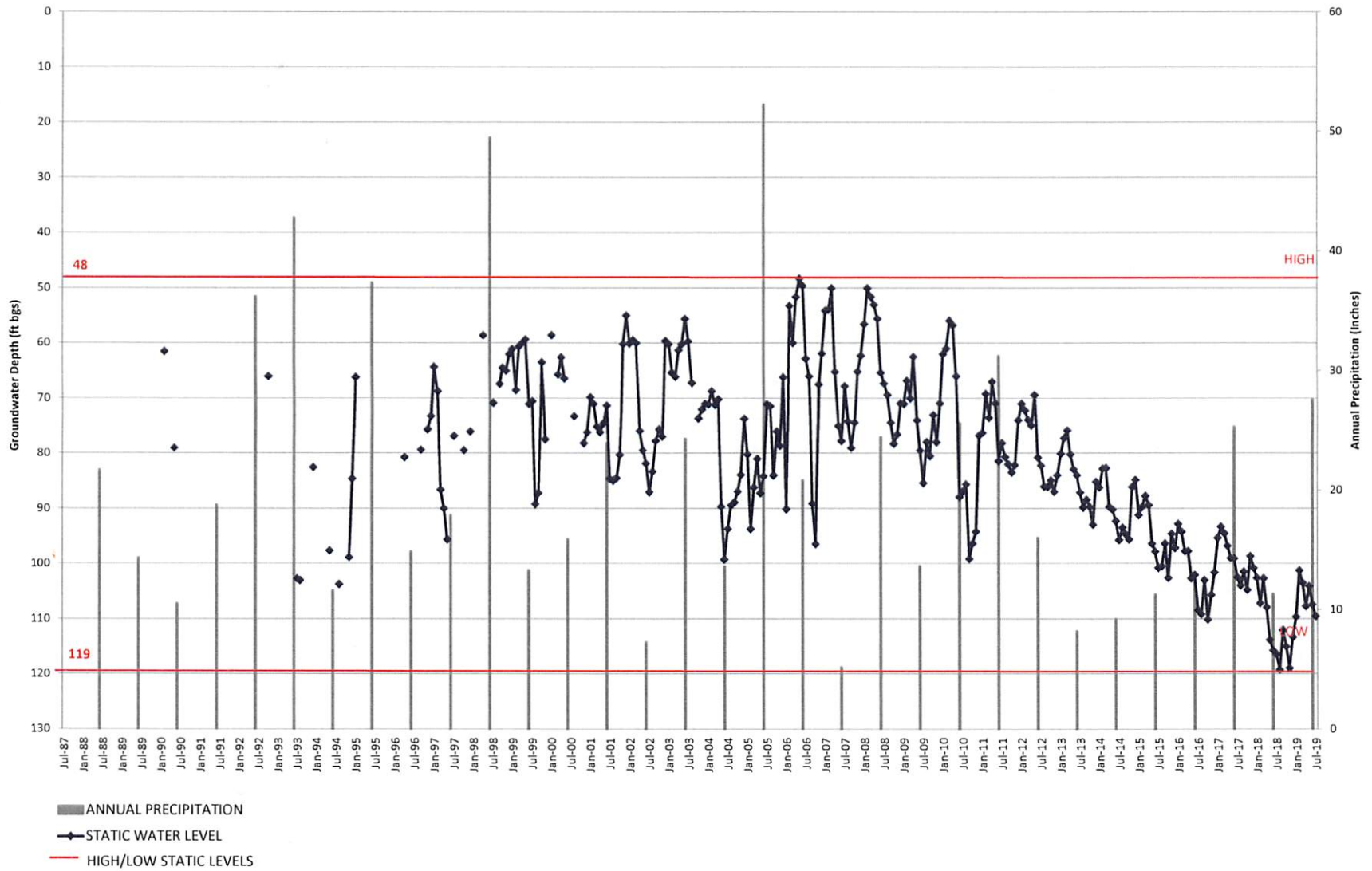
**SCV WATER WELL 207**  
**STATIC WATER LEVEL VS PRECIPITATION**



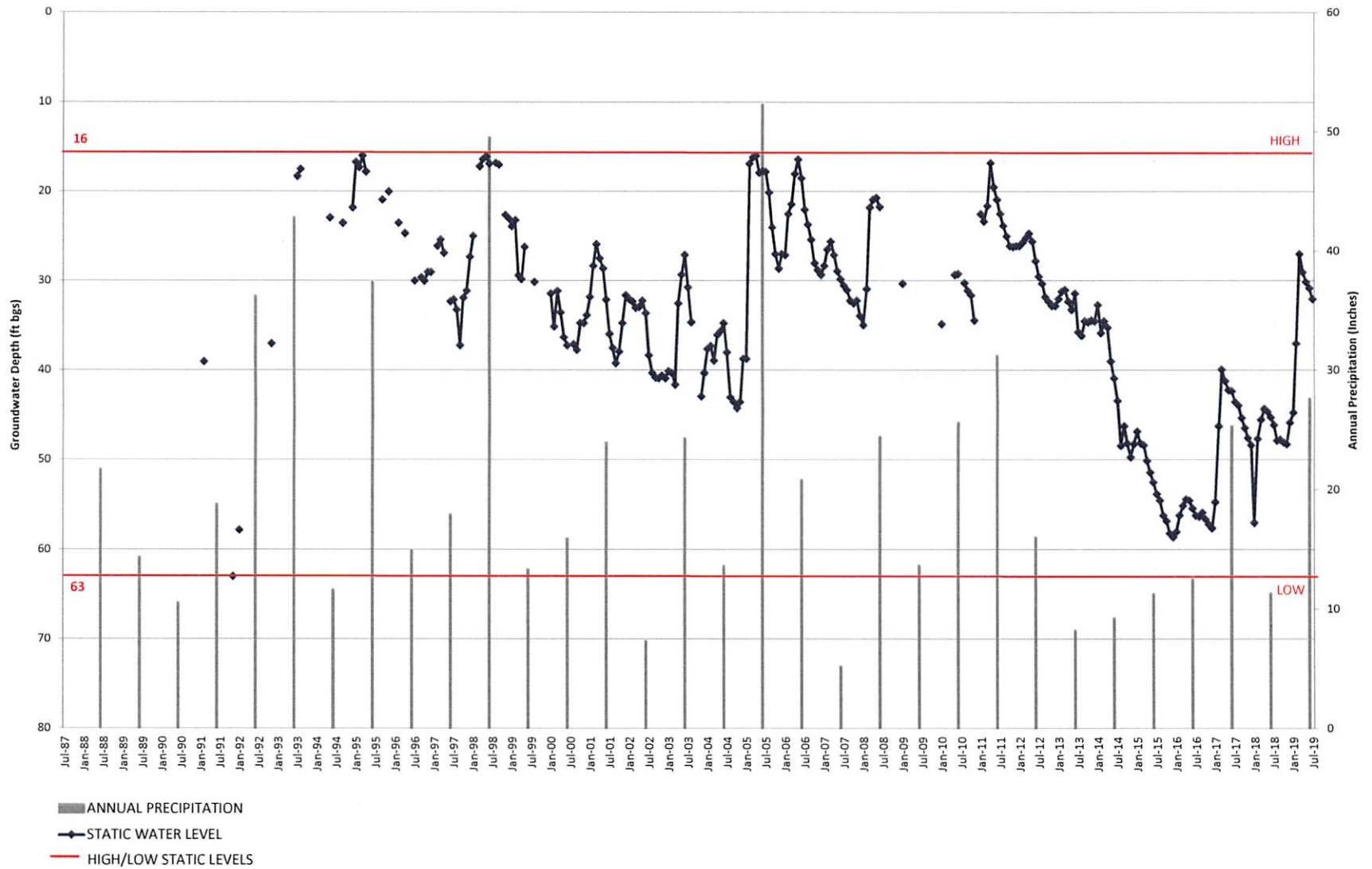
**SCV WATER WELL 206**  
 STATIC WATER LEVEL VS PRECIPITATION



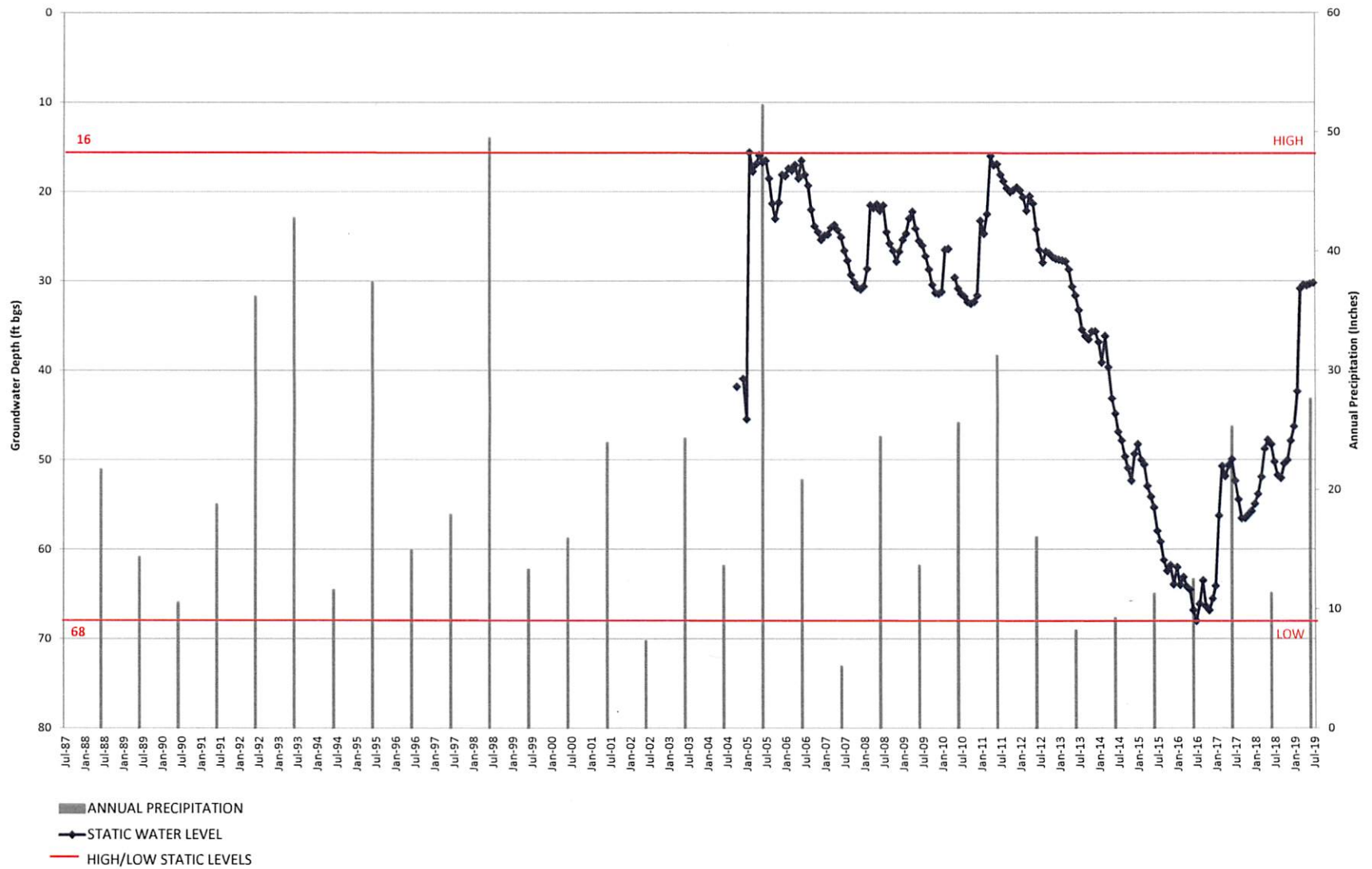
**SCV WATER WELL 160**  
 STATIC WATER LEVEL VS PRECIPITATION



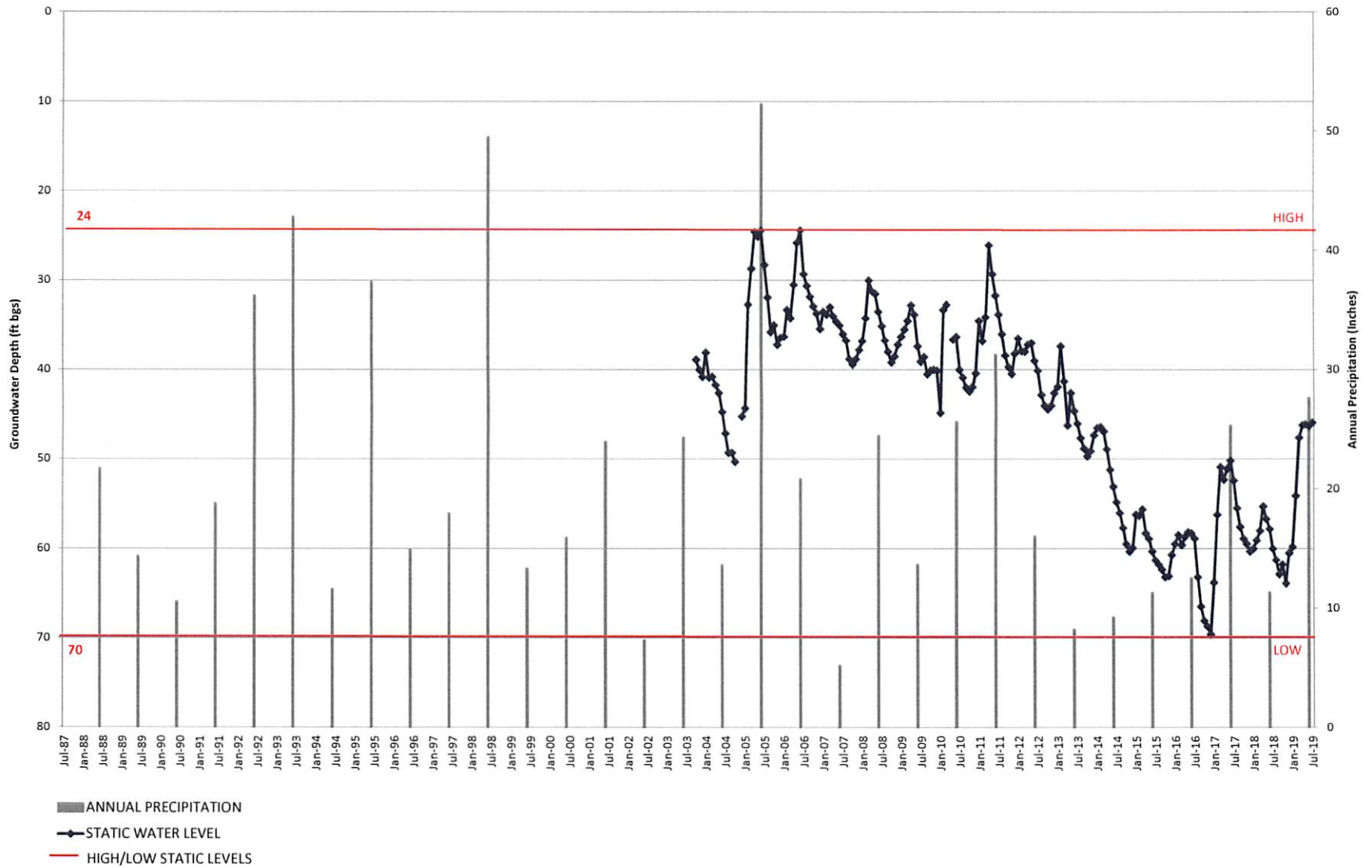
**SCV WATER WELL W9**  
 STATIC WATER LEVEL VS PRECIPITATION



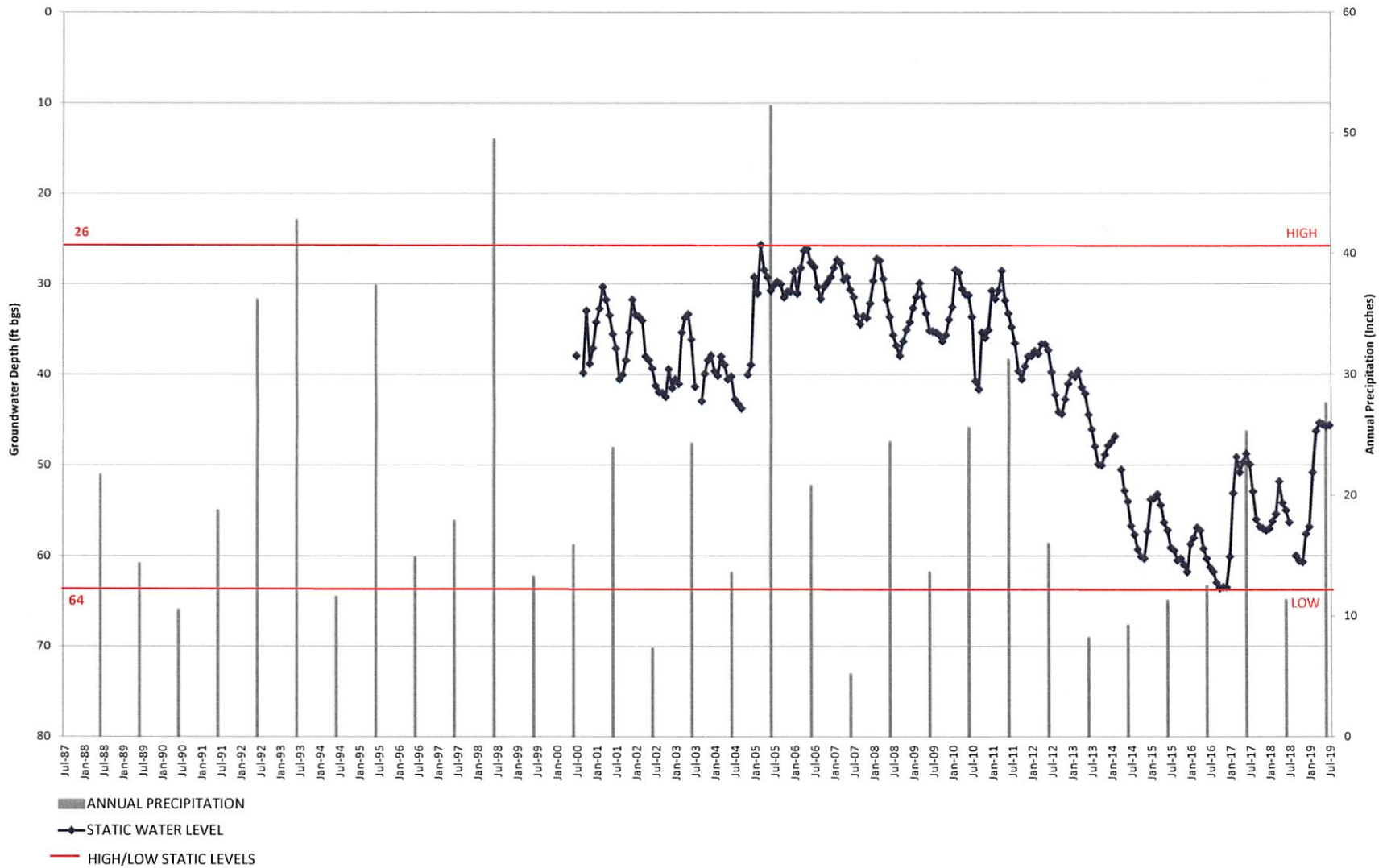
**SCV WATER WELL W11**  
**STATIC WATER LEVEL PRECIPITATION**



**SCV WATER WELL W10**  
**STATIC WATER LEVEL VS PRECIPITATION**

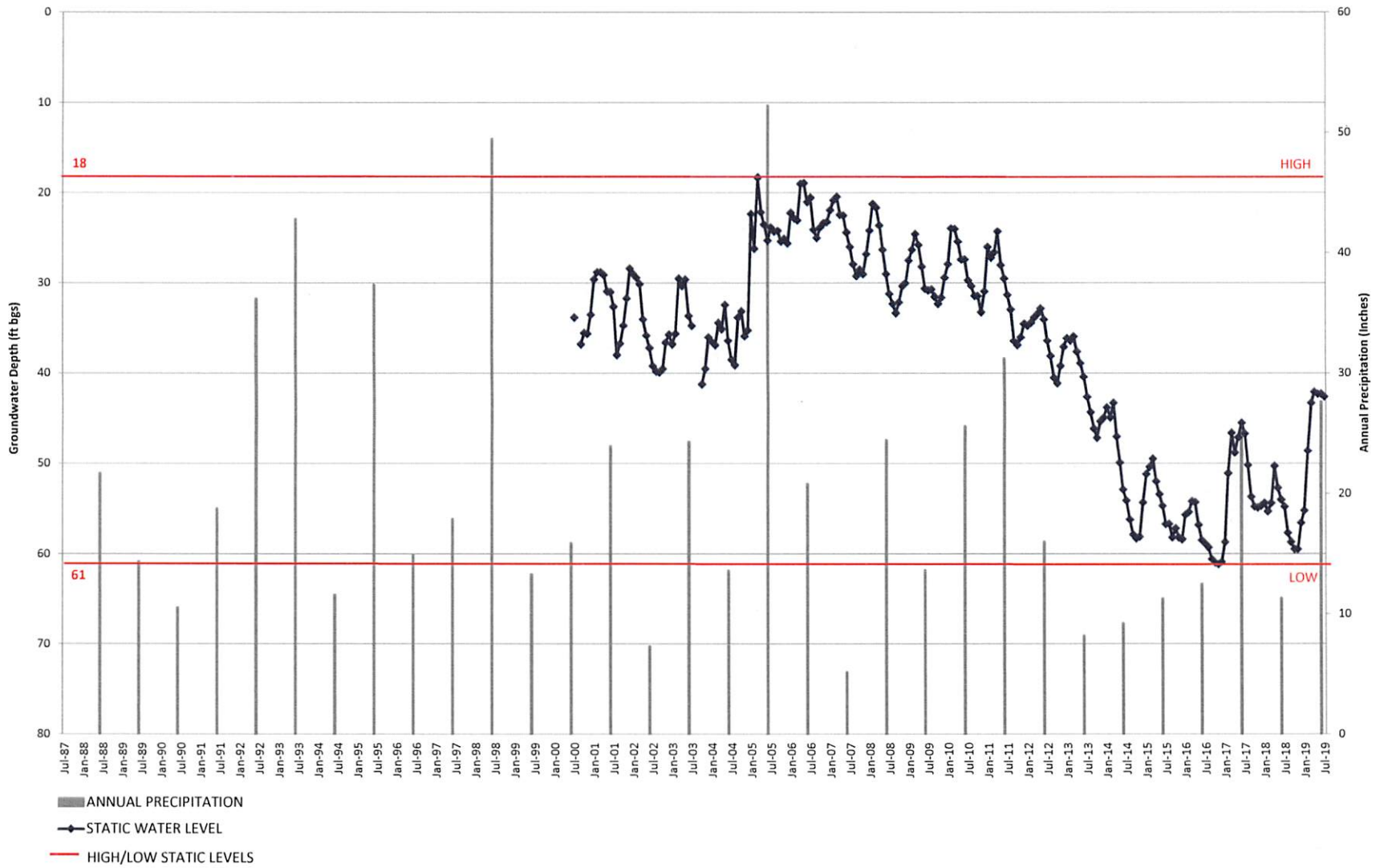


**SCV WATER WELL S6**  
 STATIC WATER LEVEL VS PRECIPITATION

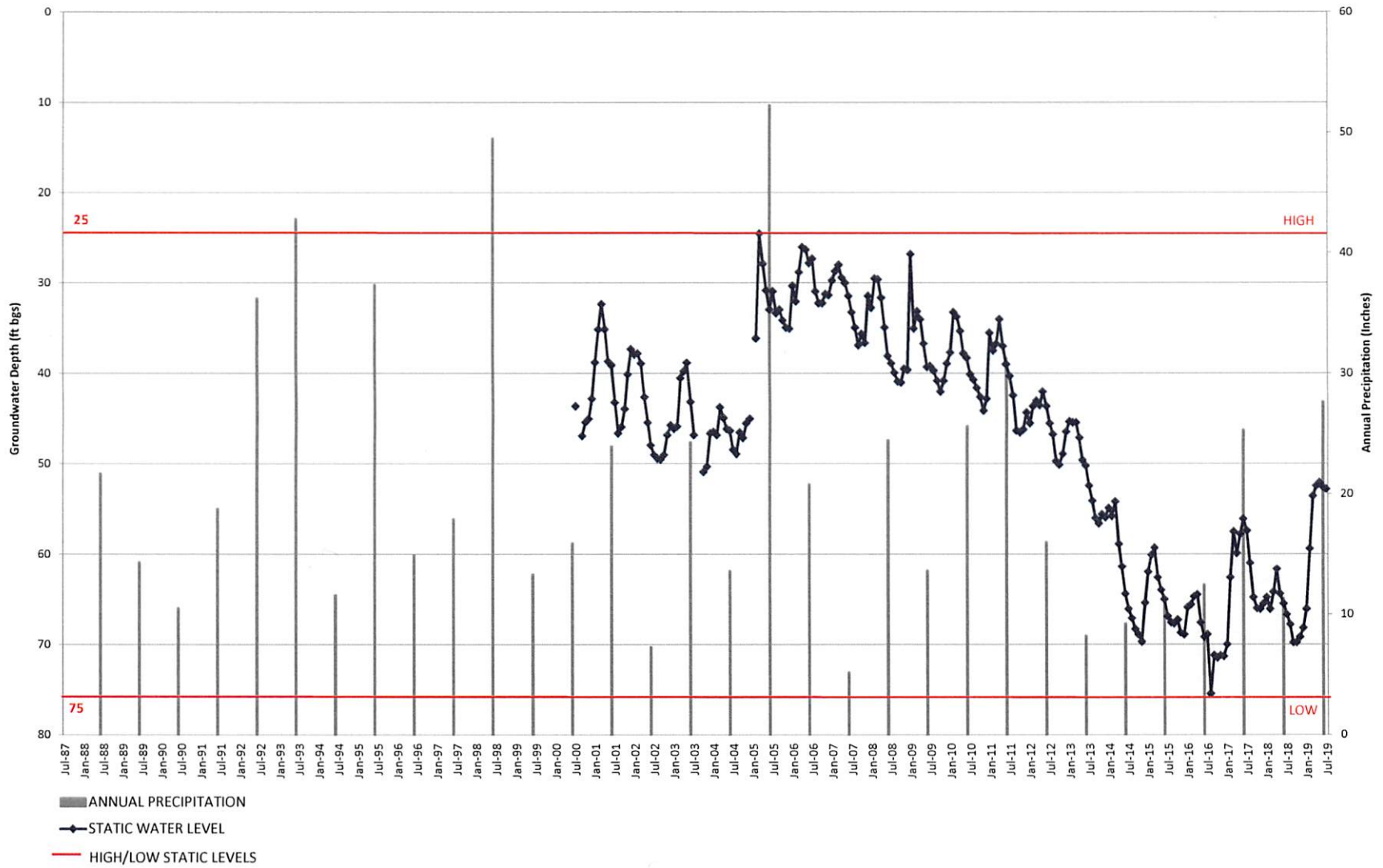




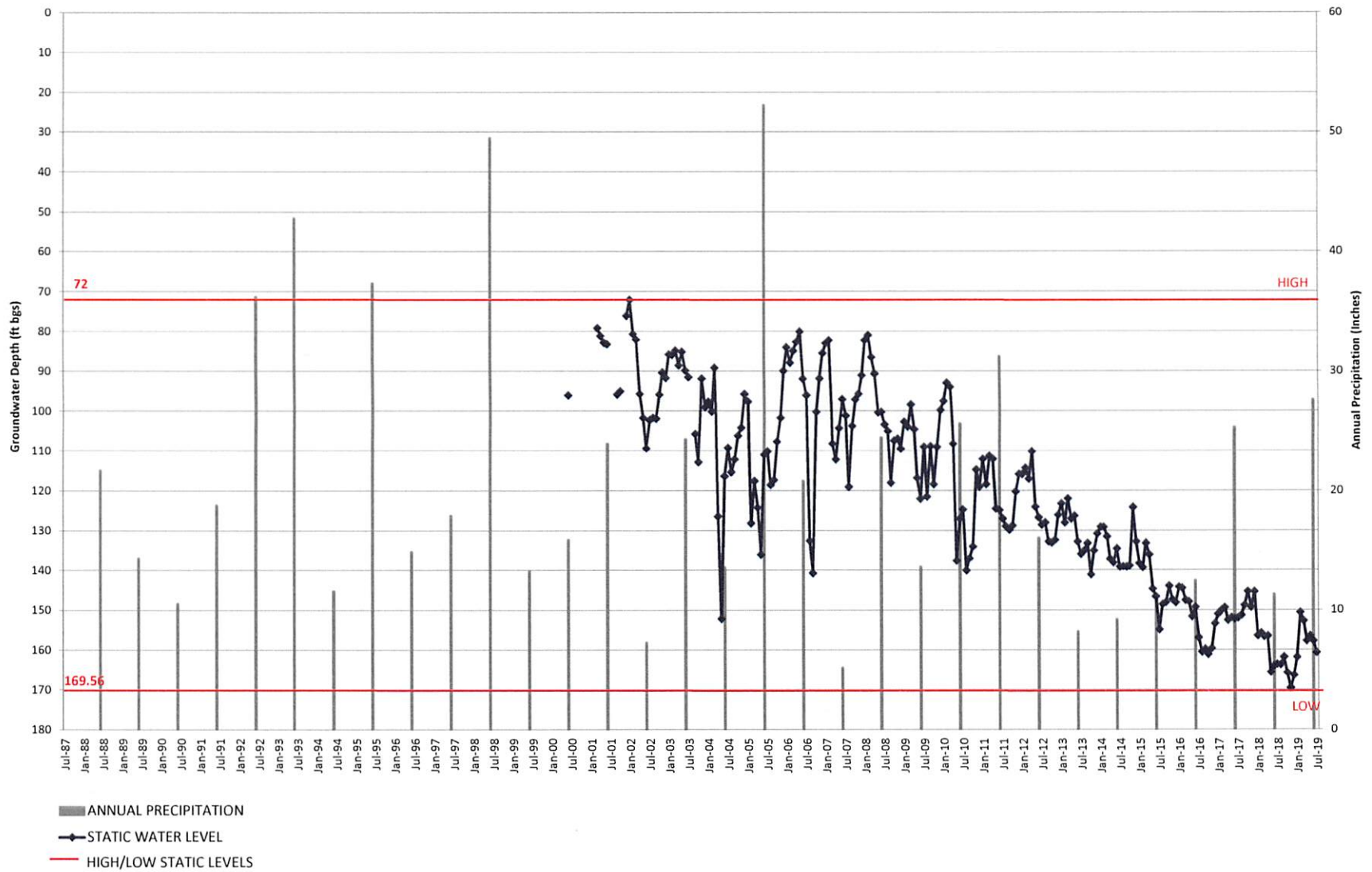
**SCV WATER WELL S7**  
**STATIC WATER LEVEL VS PRECIPITATION**



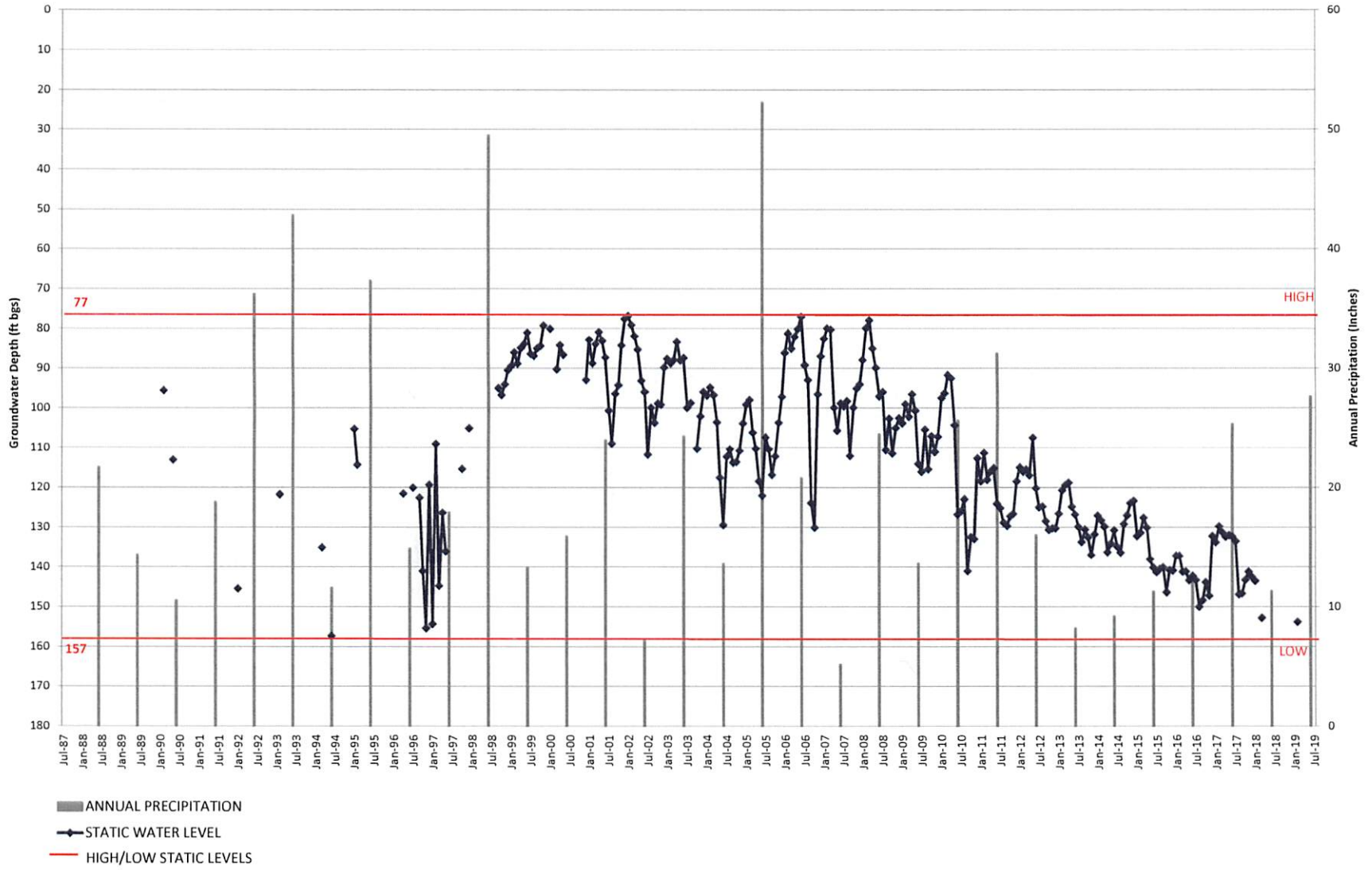
**SCV WATER WELL S8**  
 STATIC WATER LEVEL VS PRECIPITATION



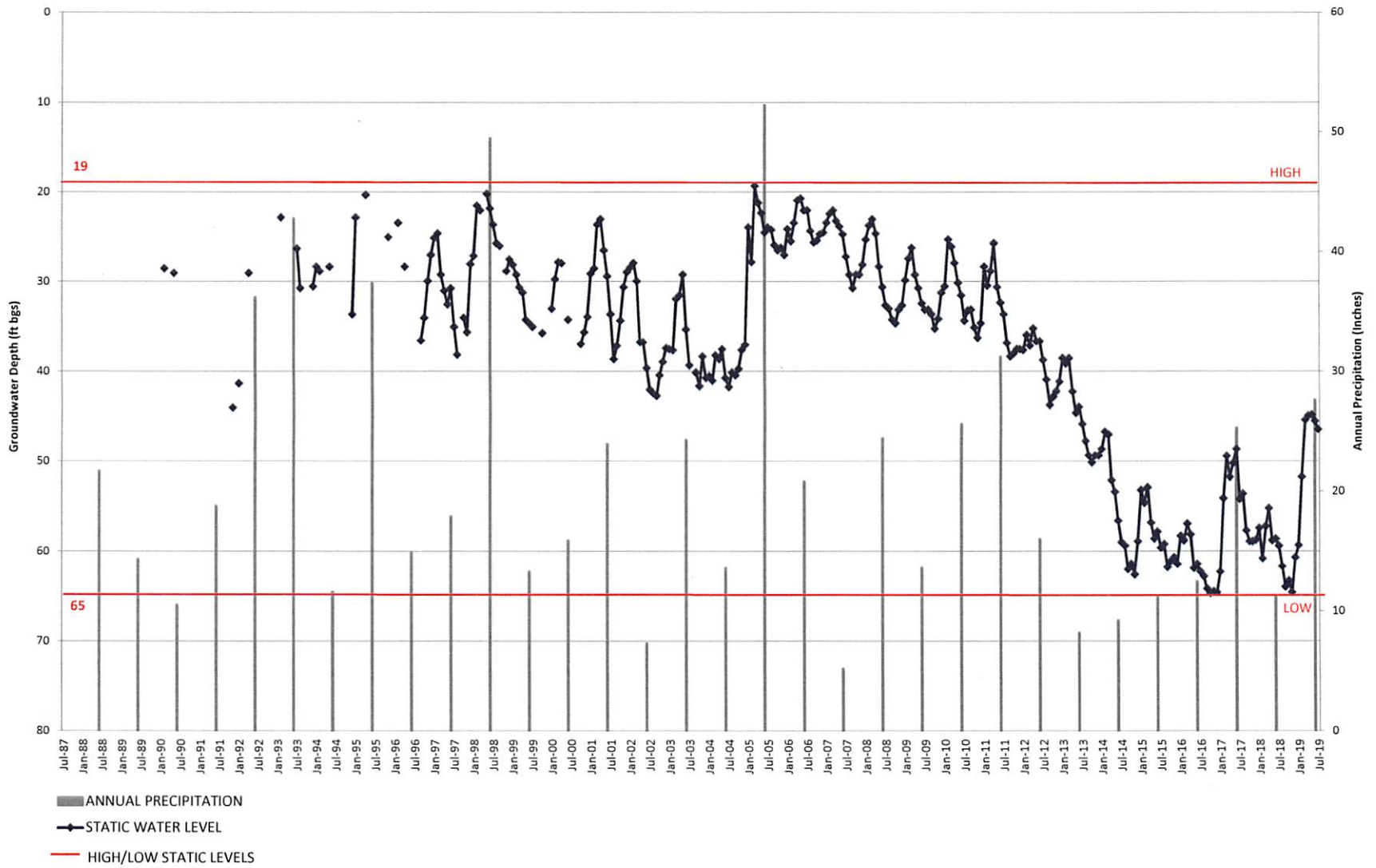
**SCV WATER WELL 205**  
 STATIC WATER LEVEL VS PRECIPITATION



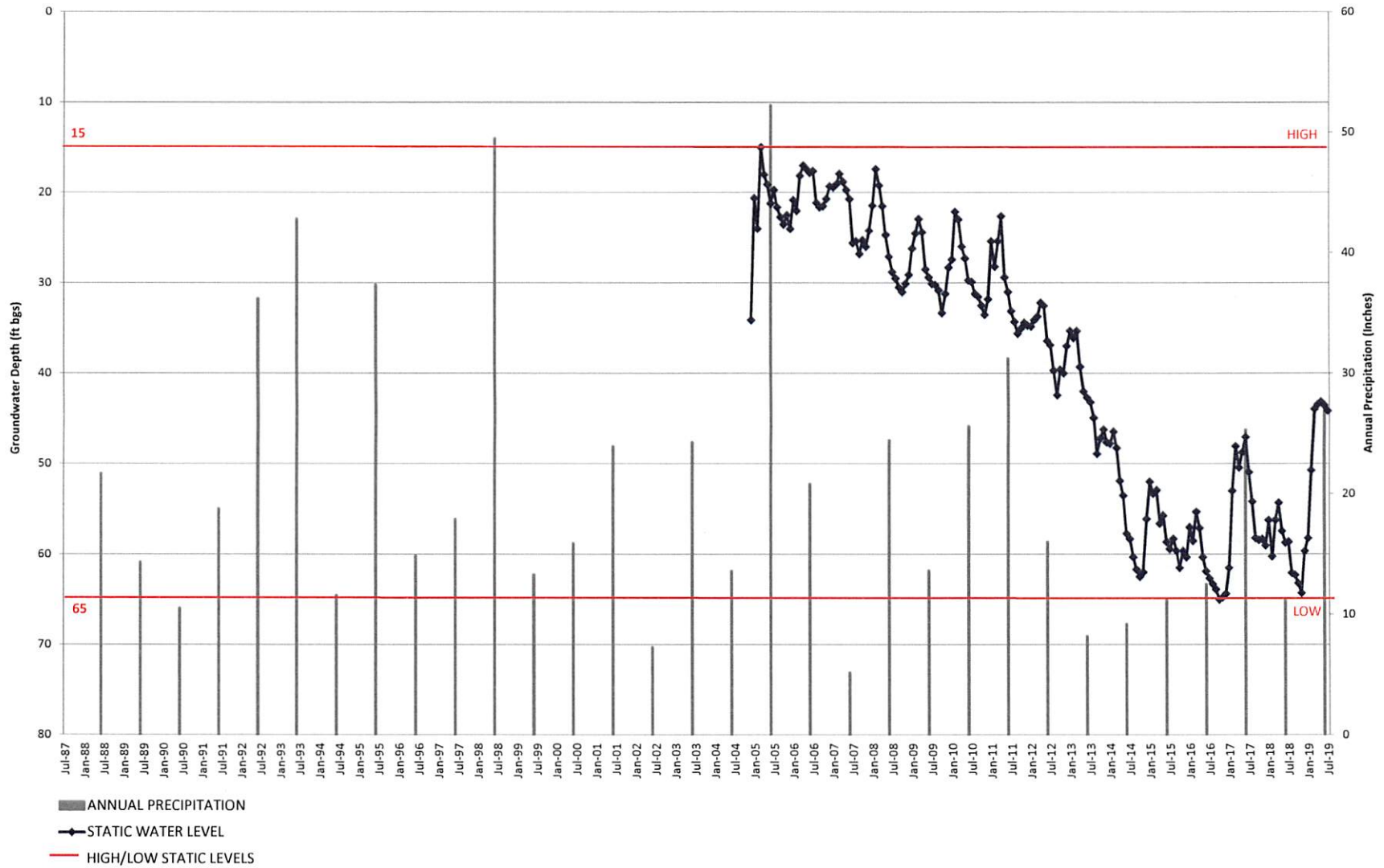
**SCV WATER WELL 201**  
 STATIC WATER LEVEL VS PRECIPITATION



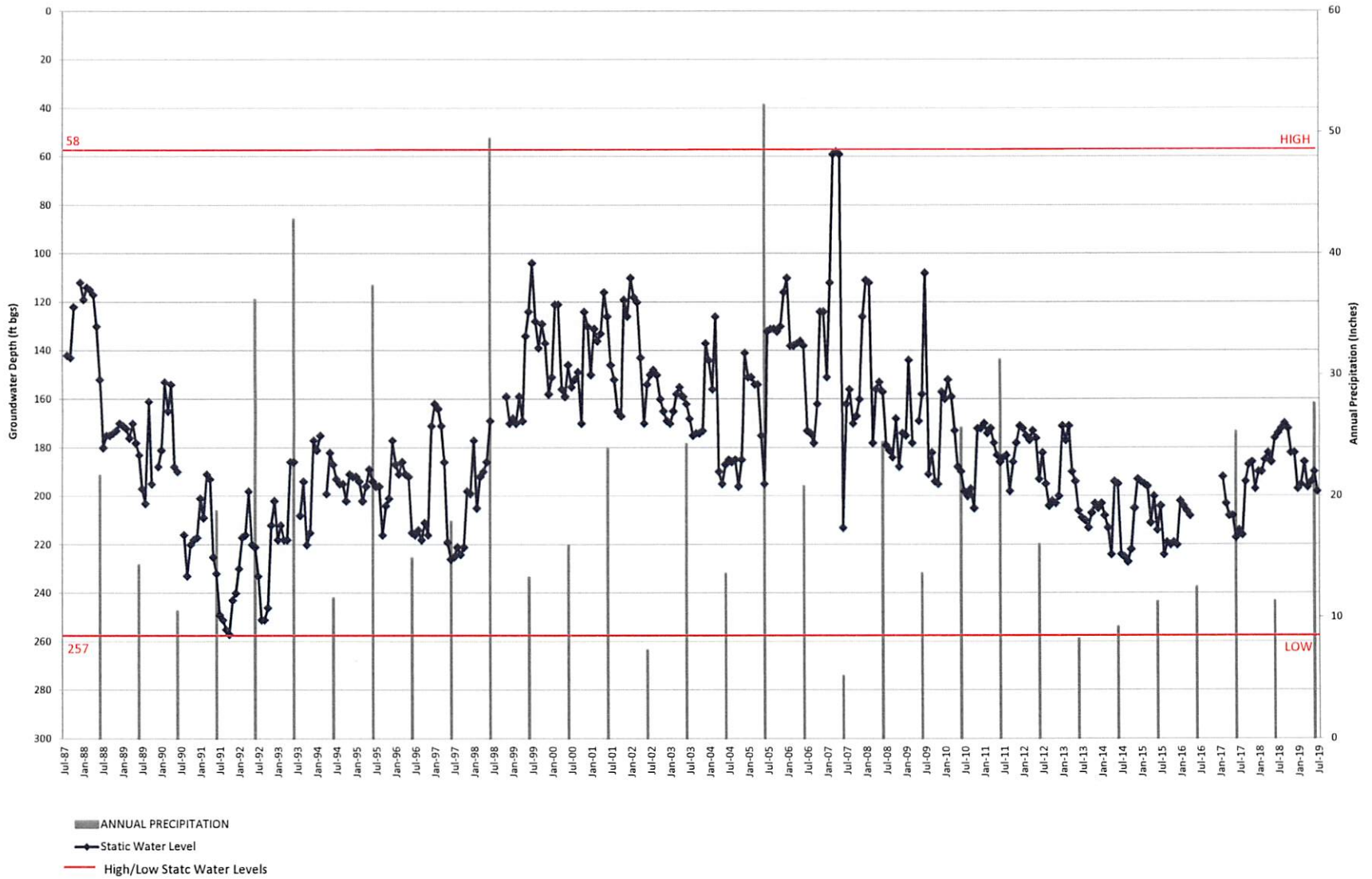
**SCV WATER WELL N**  
 STATIC WATER LEVEL VS PRECIPITATION



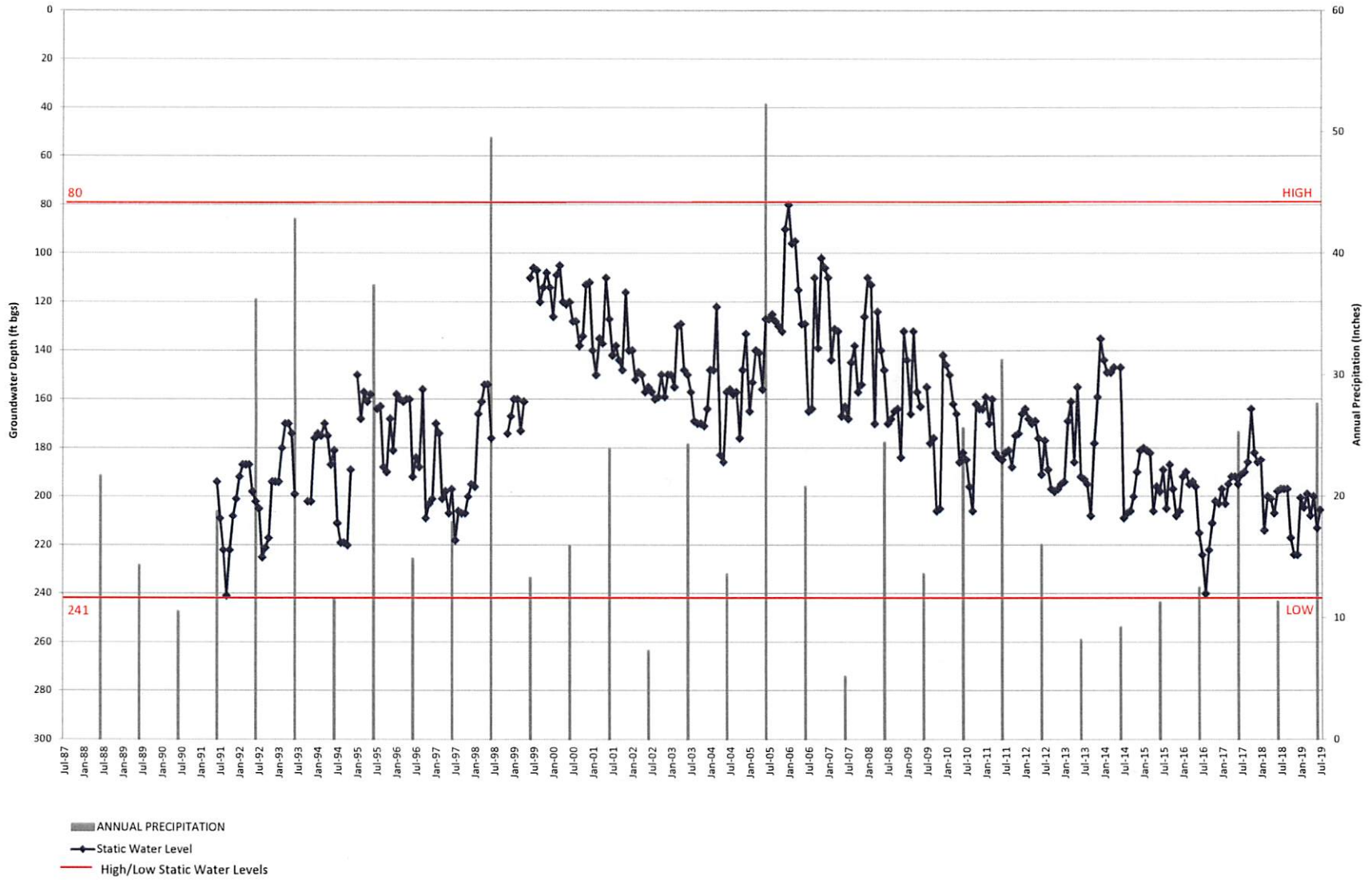
**SCV WATER WELL N7**  
**STATIC WATER LEVEL VS PRECIPITATION**



**SCV WATER WELL N12**  
 STATIC WATER LEVEL VS PRECIPITATION

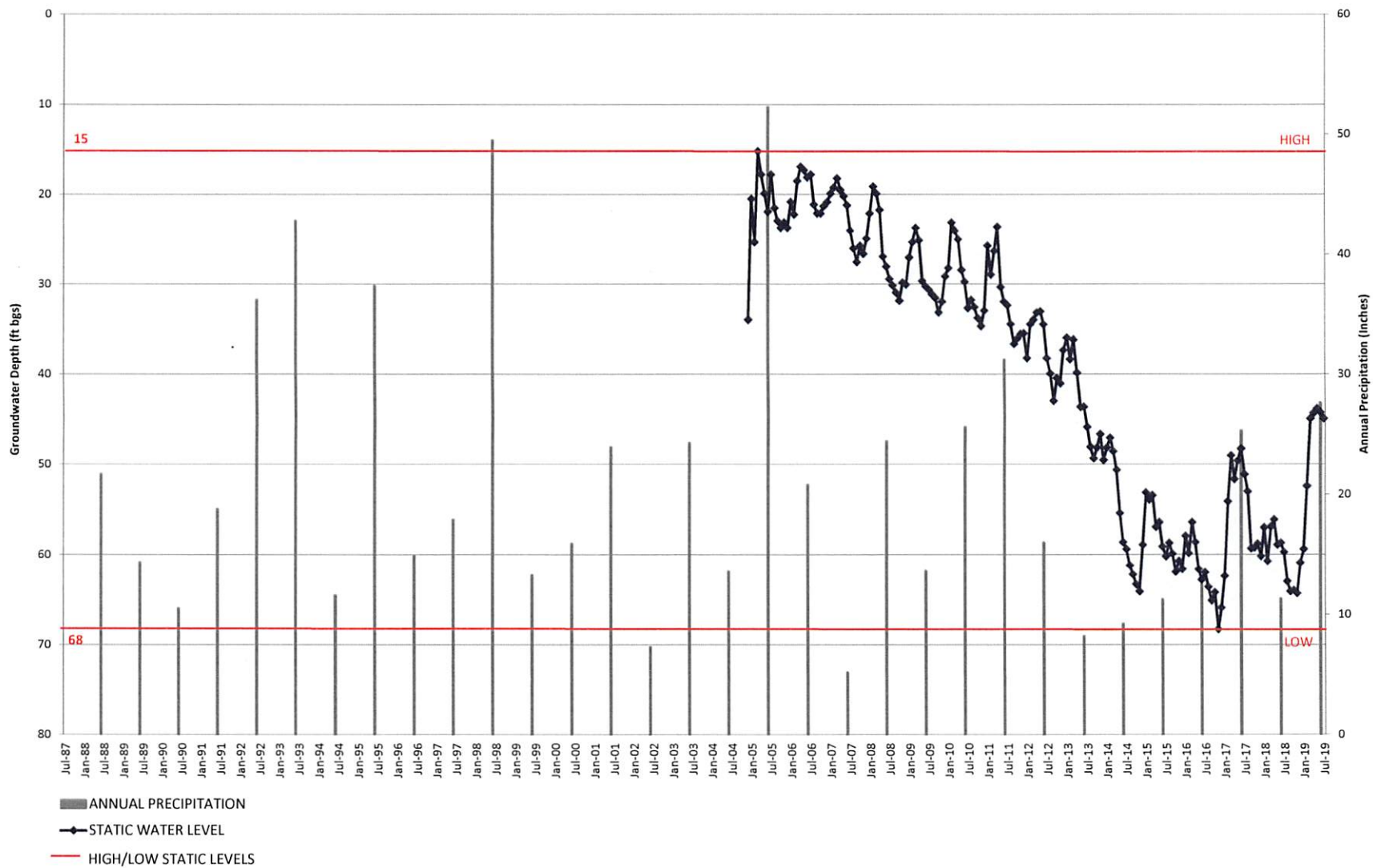


**SCV WATER WELL N13**  
 STATIC WATER LEVEL VS PRECIPITATION

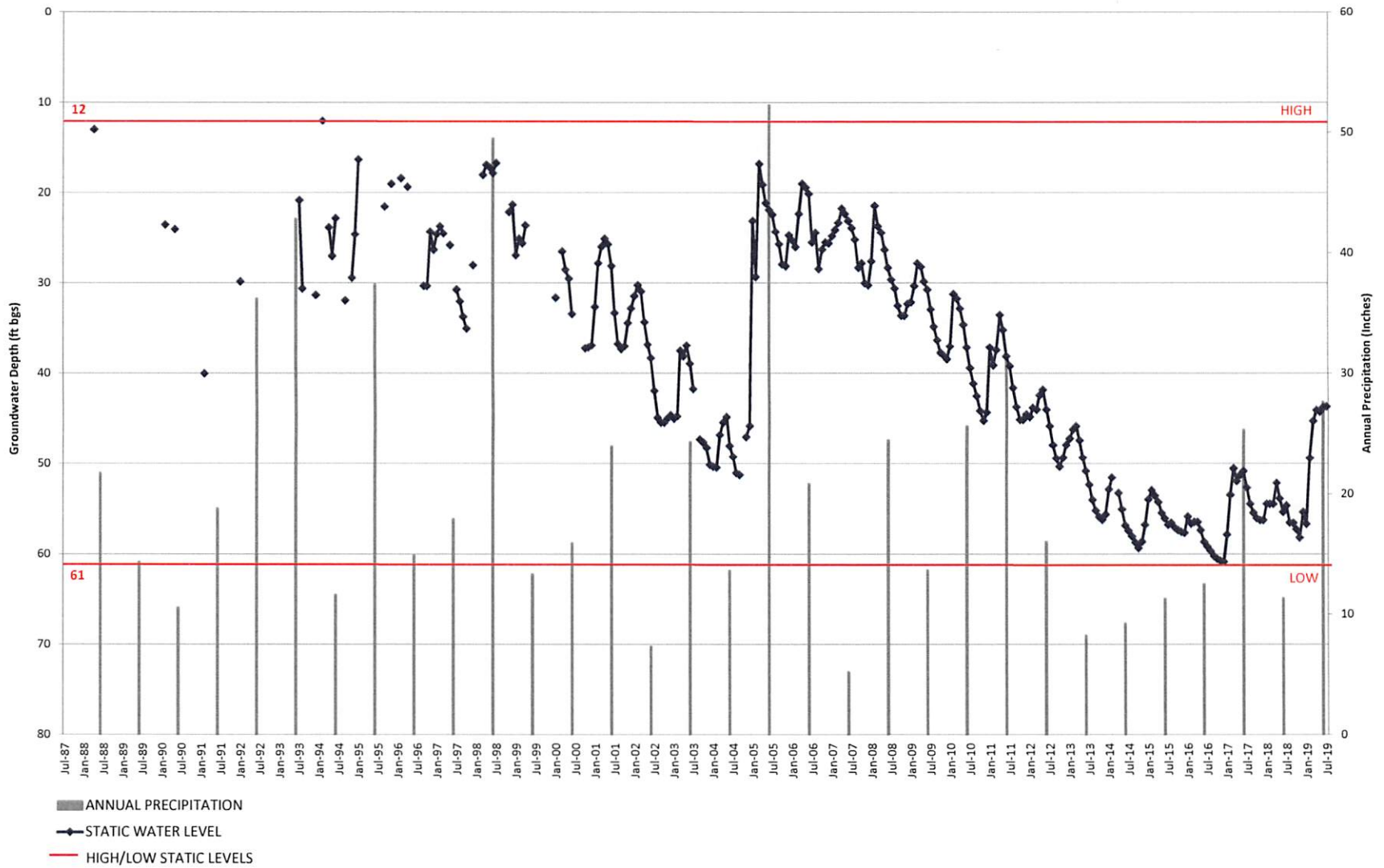




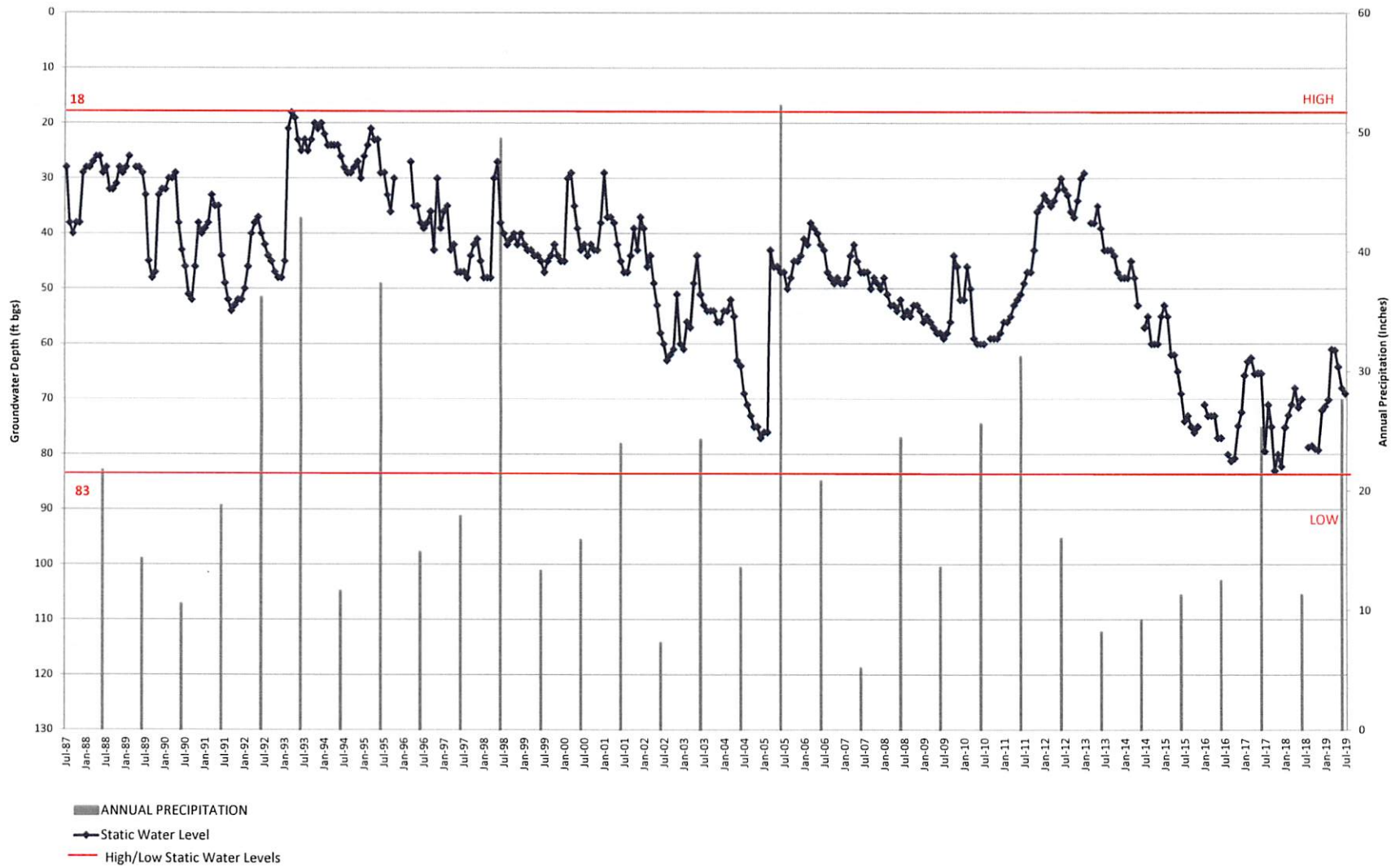
**SCV WATER WELL N8**  
**STATIC WATER LEVEL VS PRECIPITATION**



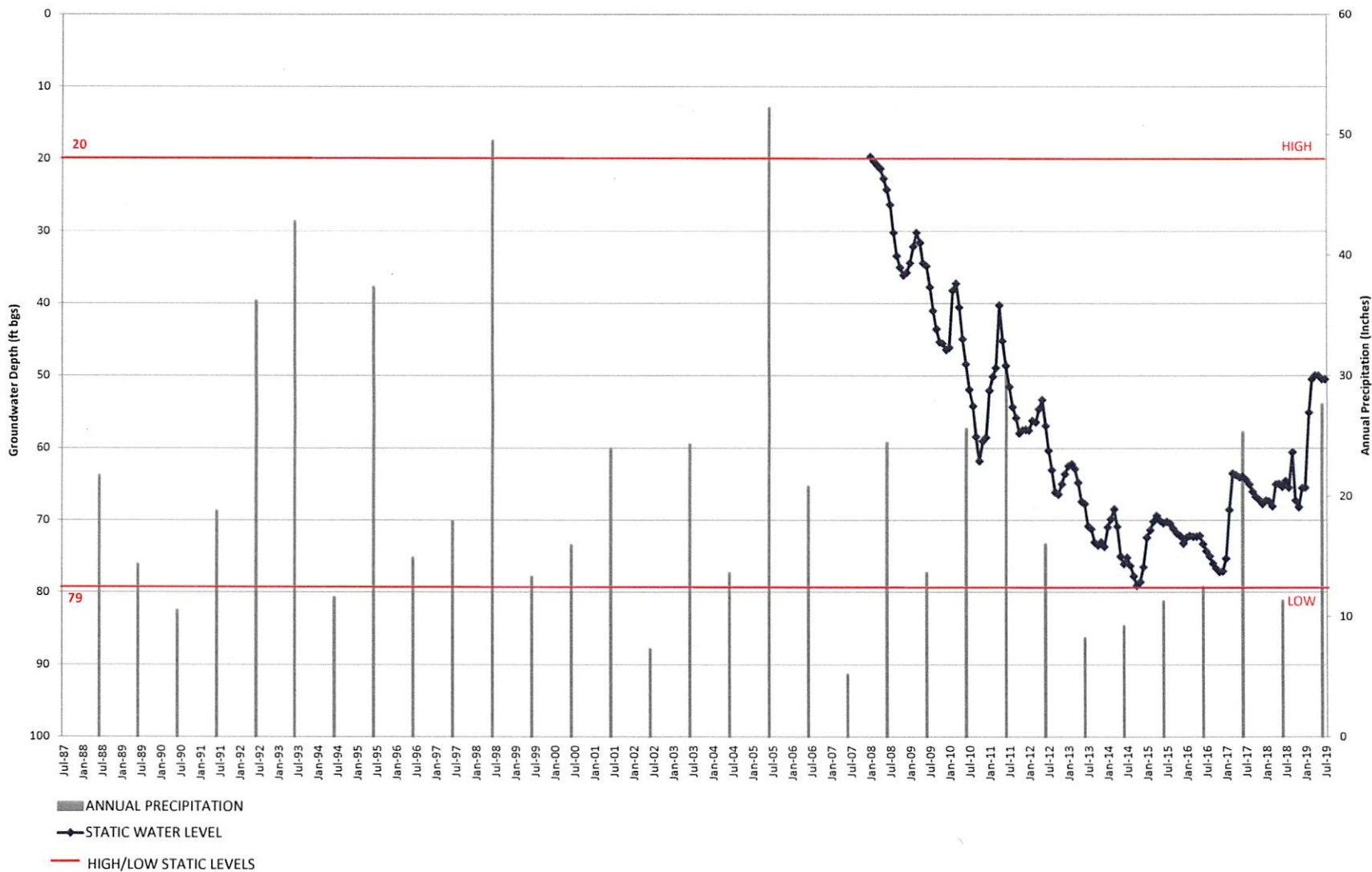
**SCV WATER WELL Q2**  
 STATIC WATER LEVEL VS PRECIPITATION



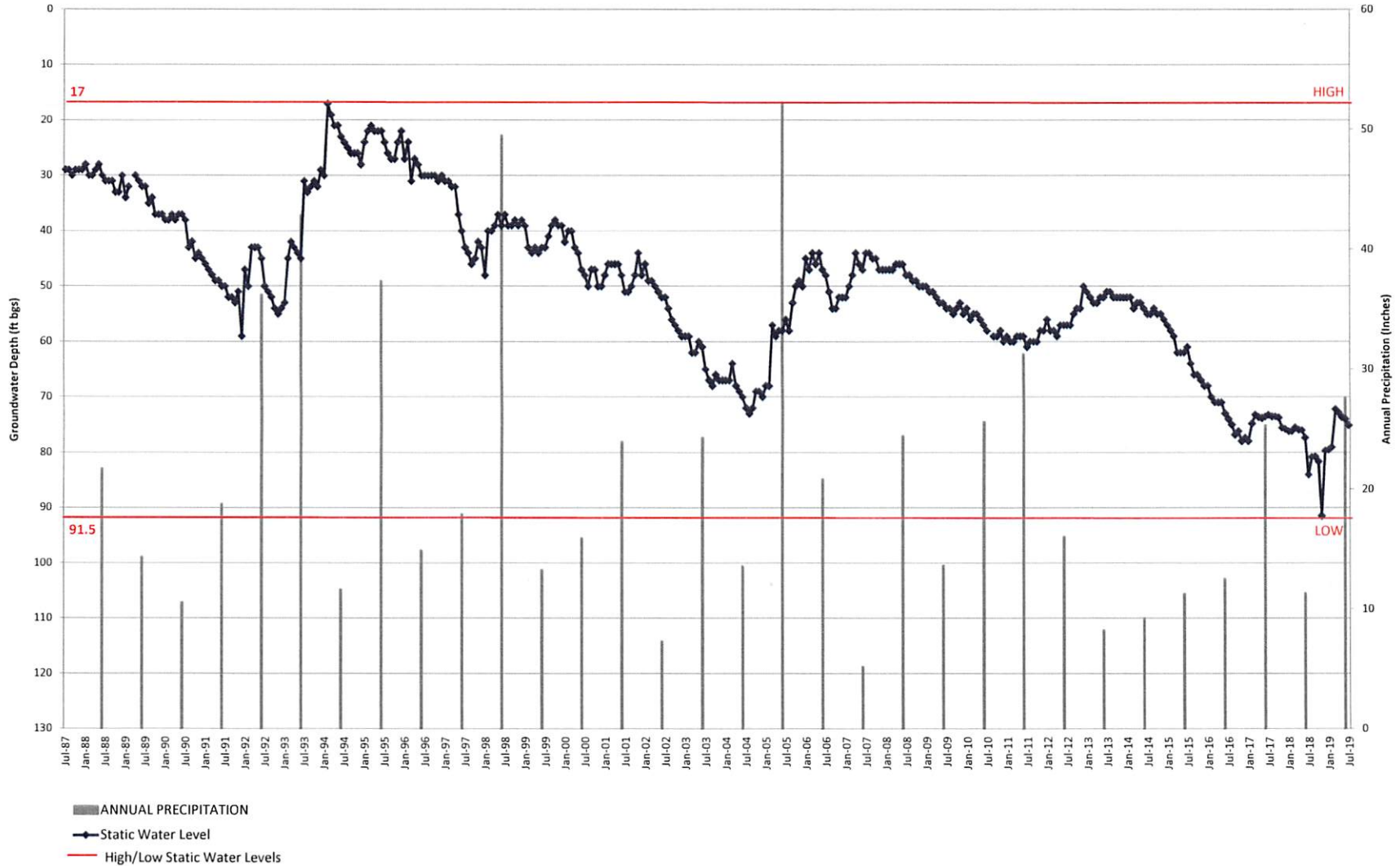
**SCV WATER WELL GUIDA #14**  
**STATIC WATER LEVEL VS PRECIPITATION**



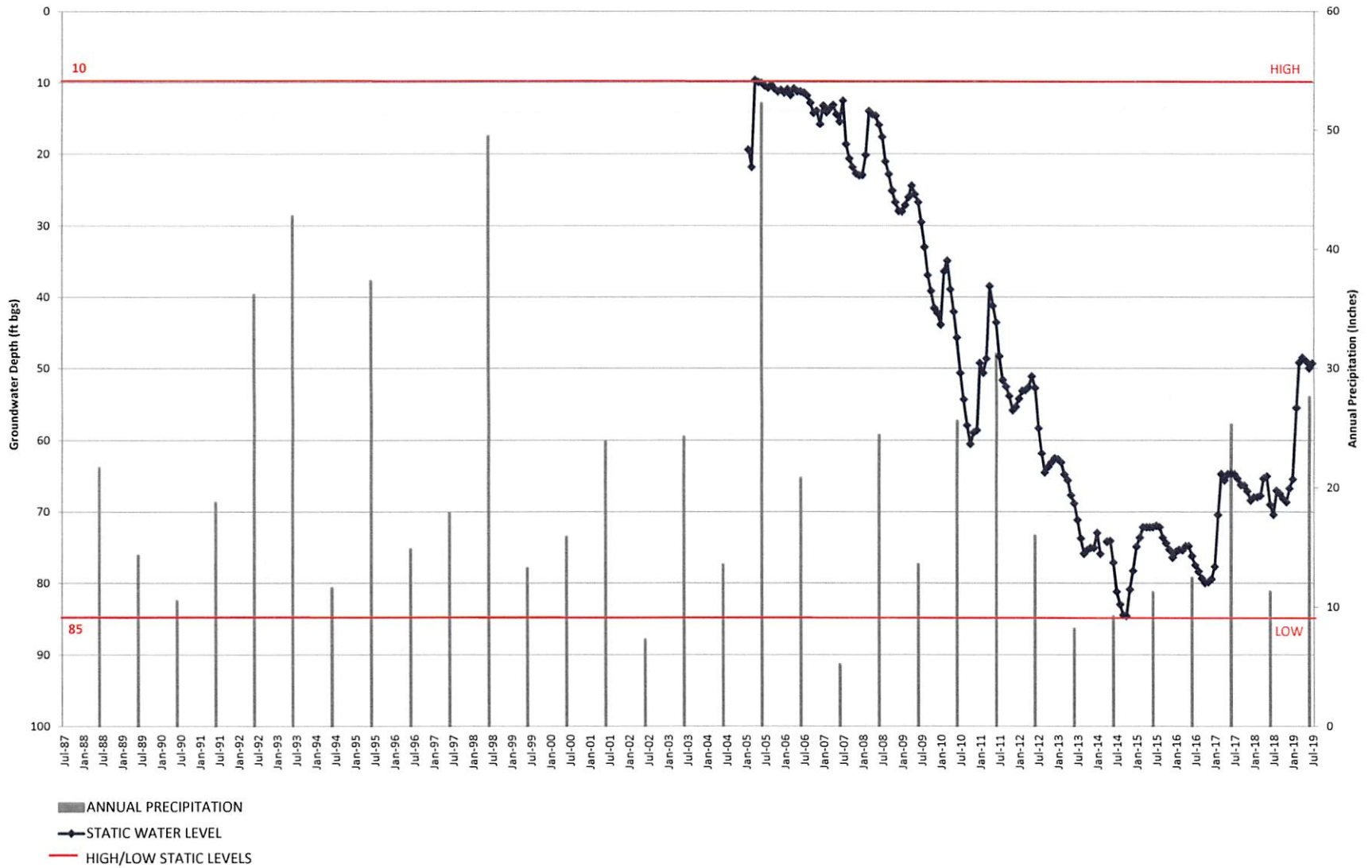
**SCV WATER WELL T7**  
**STATIC WATER LEVEL VS PRECIPITATION**



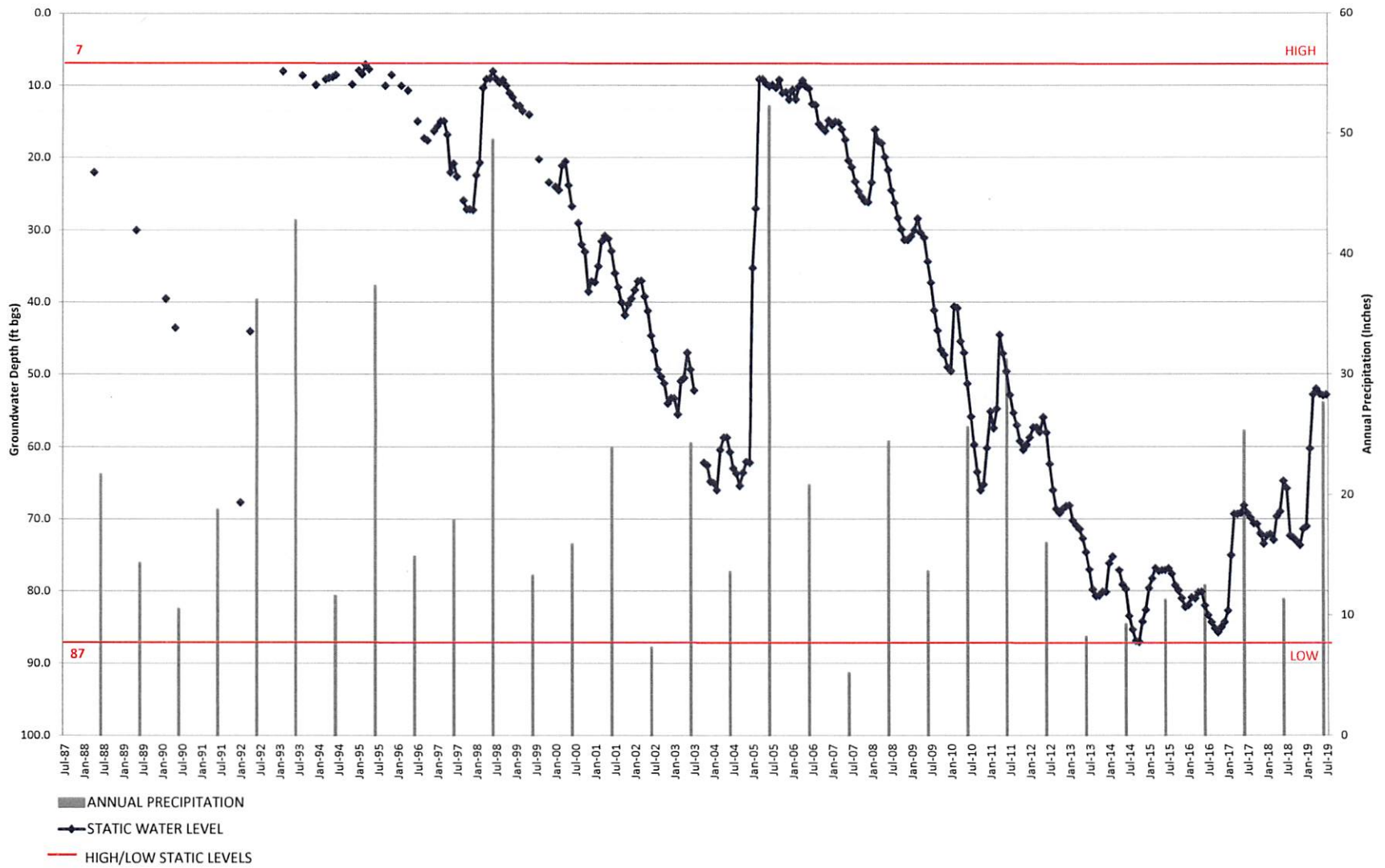
**SCV WATER WELL CLARK #15**  
**STATIC WATER LEVEL VS PRECIPITATION**



**SCV WATER WELL U6**  
 STATIC WATER LEVEL VS PRECIPITATION



**SCV WATER WELL U4**  
 STATIC WATER LEVEL VS PRECIPITATION

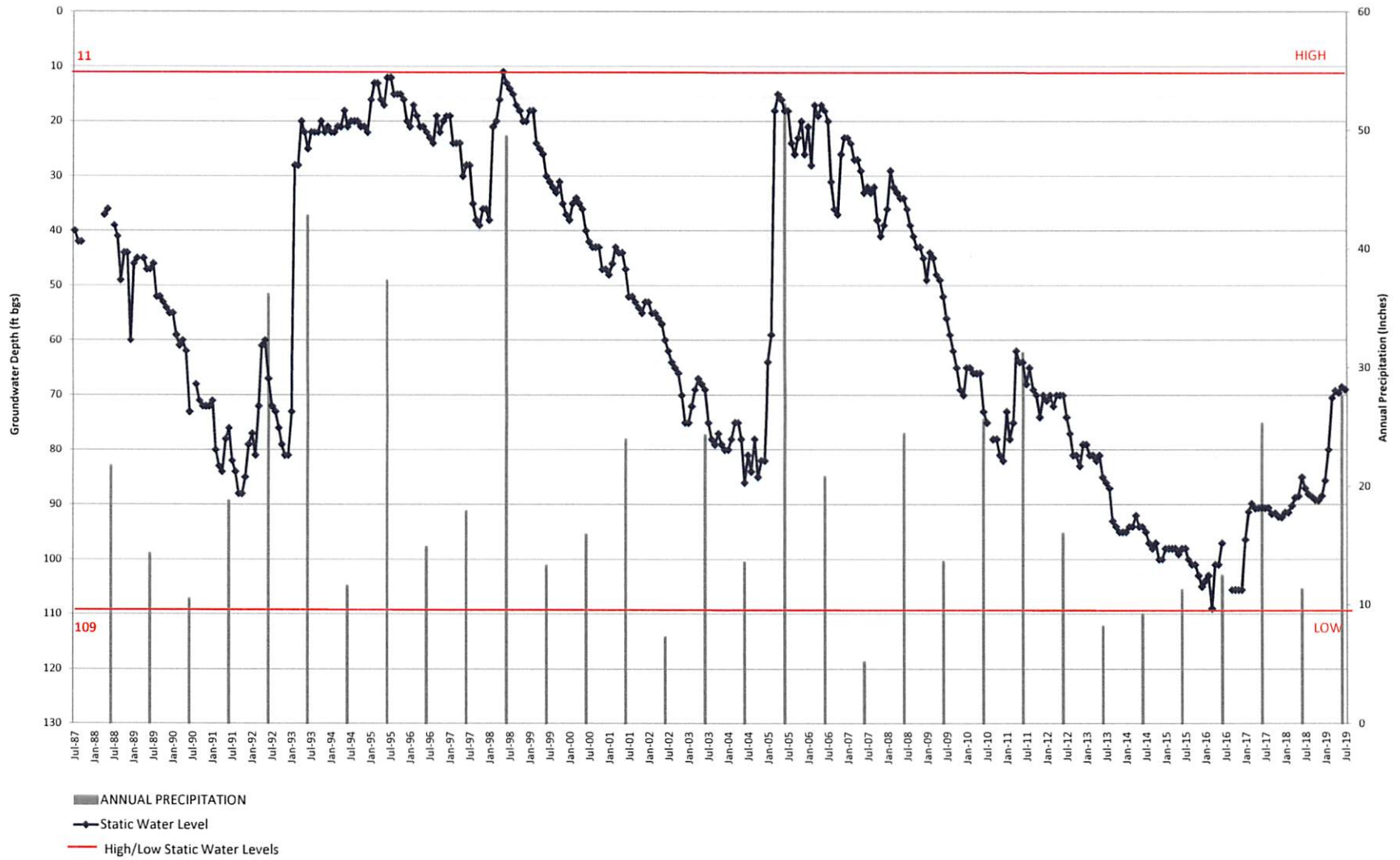


**SCV WATER WELL VALLEY CENTER**  
**STATIC WATER LEVEL VS PRECIPITATION**

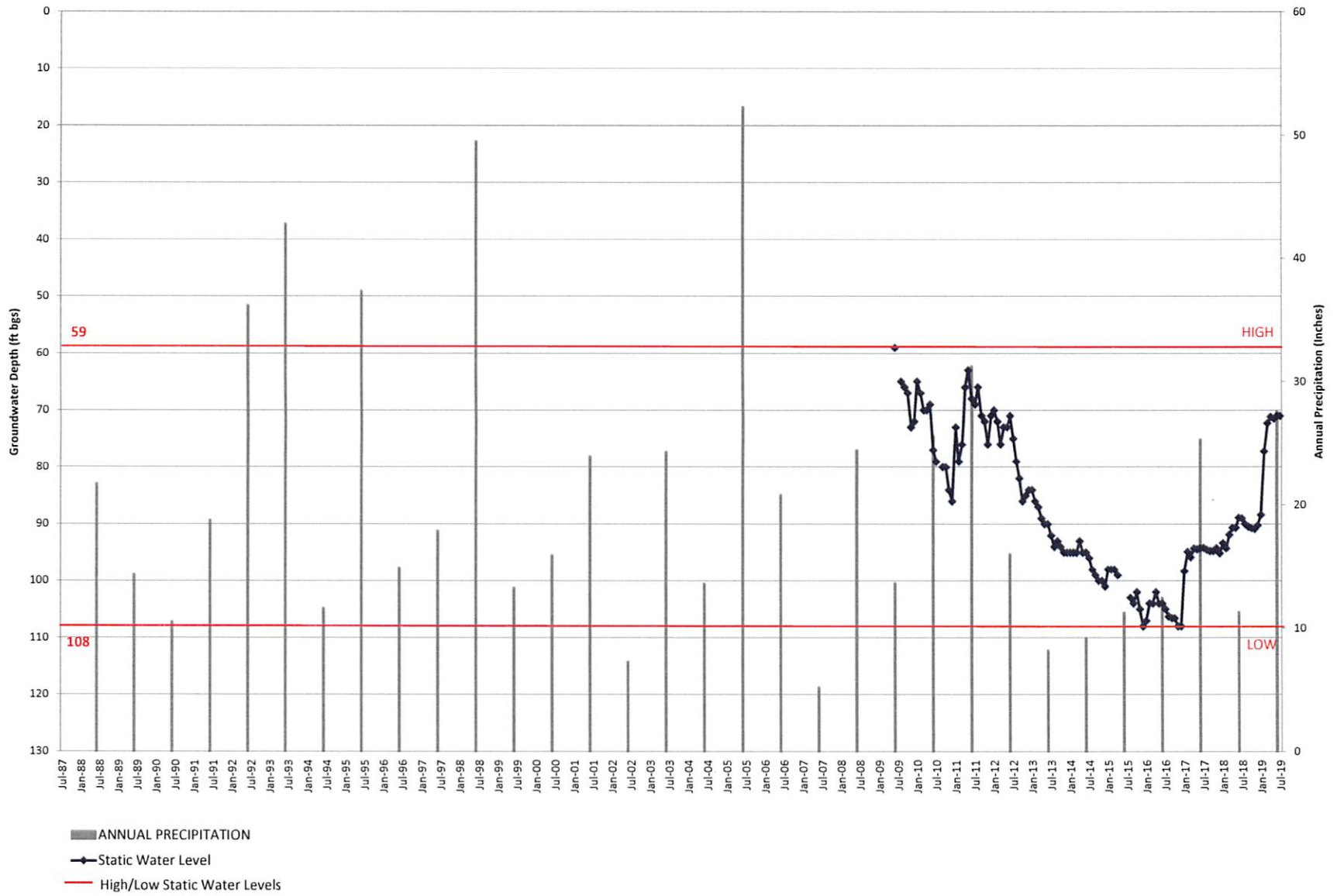




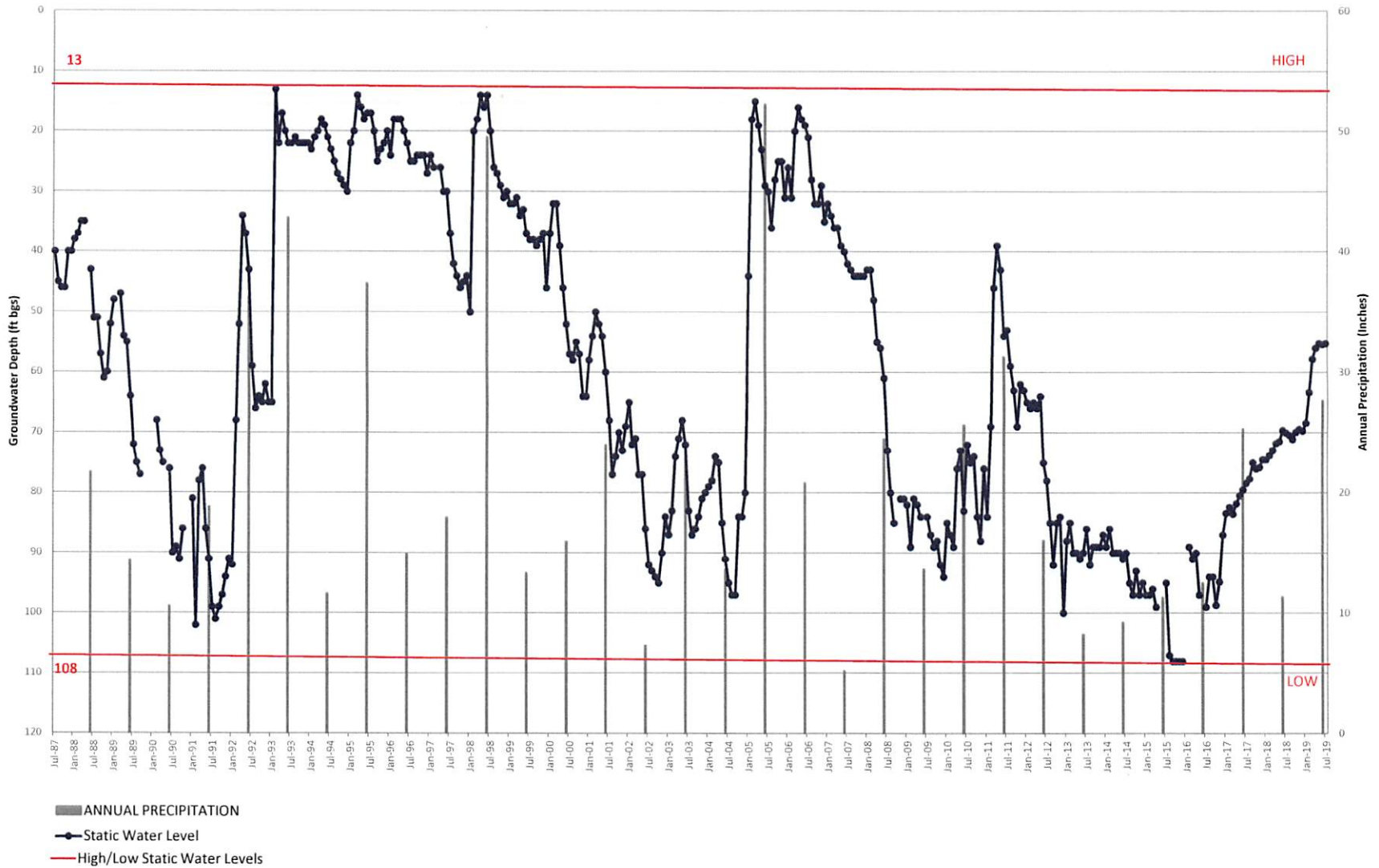
SCV WATER WELL HONBY #12  
 STATIC WATER LEVEL VS PRECIPITATION



**SCV WATER WELL SANTA CLARA**  
**STATIC WATER LEVEL VS PRECIPITATION**



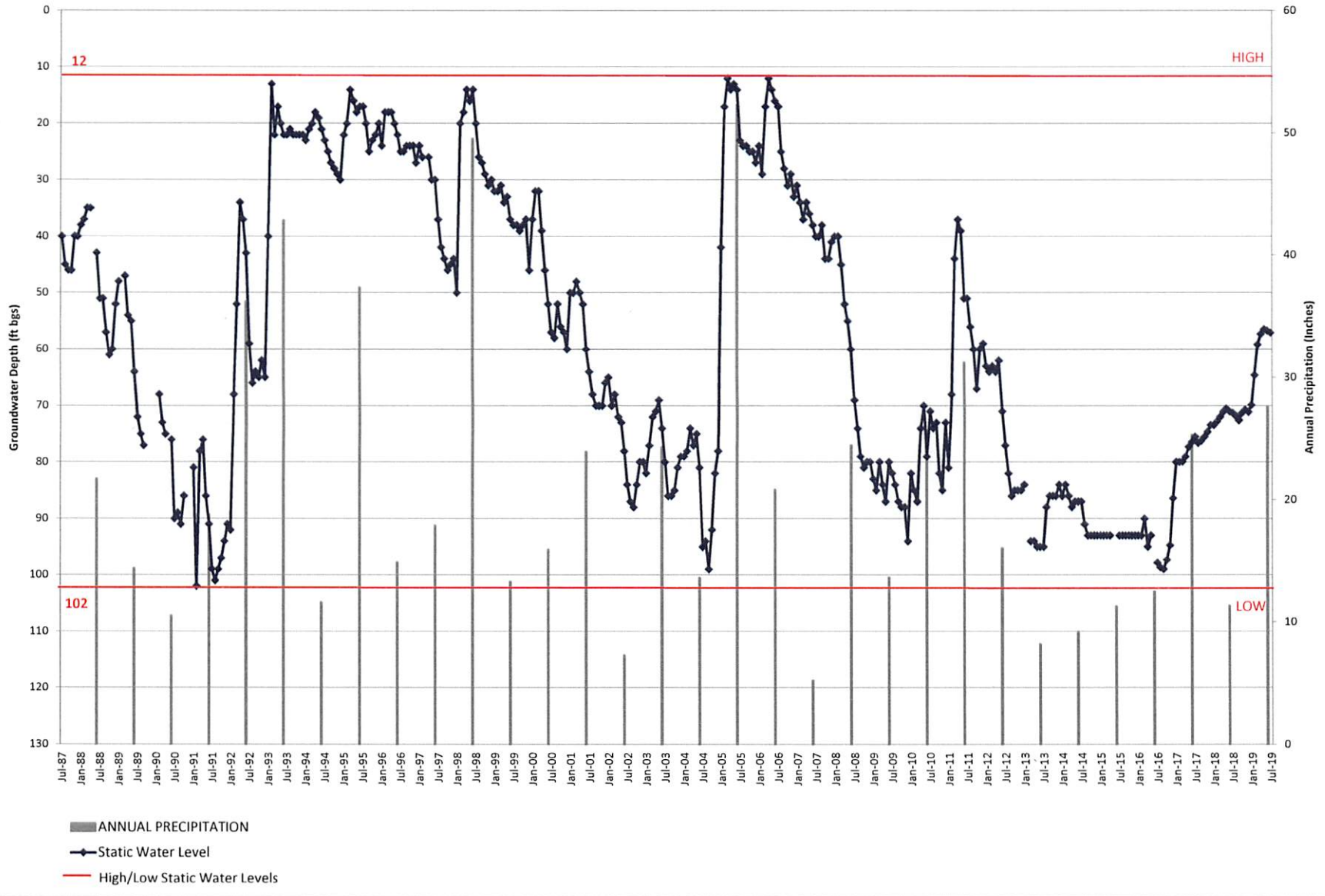
**SCV WATER WELL NORTH OAKS CENTRAL #8**  
 STATIC WATER LEVEL VS. PRECIPITATION



SCV WATER WELL NORTH OAKS WEST #9  
 STATIC WATER LEVEL VS PRECIPITATION



SCV WATER WELL NORTH OAKS EAST #7  
 STATIC WATER LEVEL VS PRECIPITATION



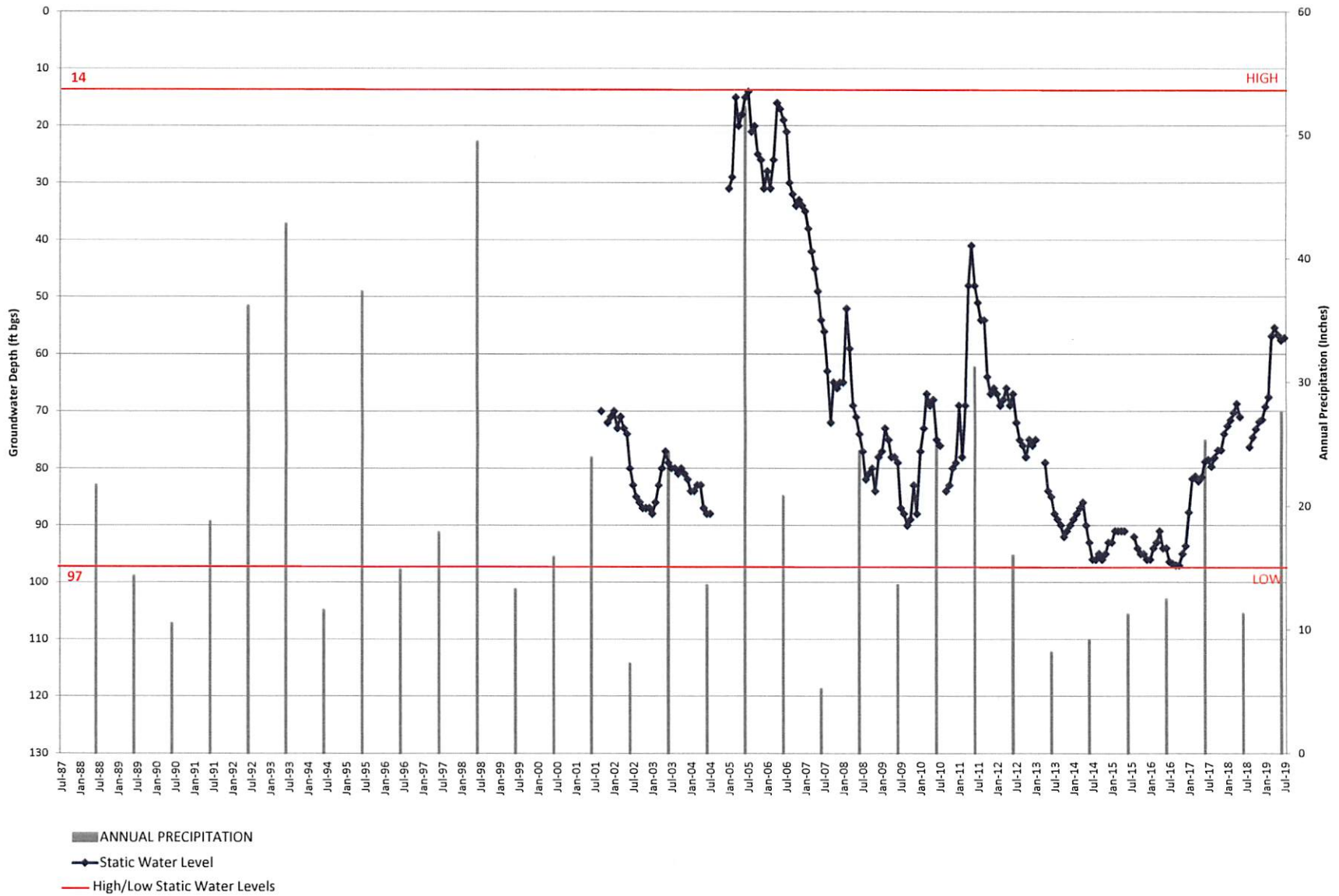
**SCV WATER WELL SIERRA #6**  
**STATIC WATER LEVEL VS PRECIPITATION**



SCV WATER WELL MITCHELL #5A  
 STATIC WATER LEVEL VS PRECIPITATION

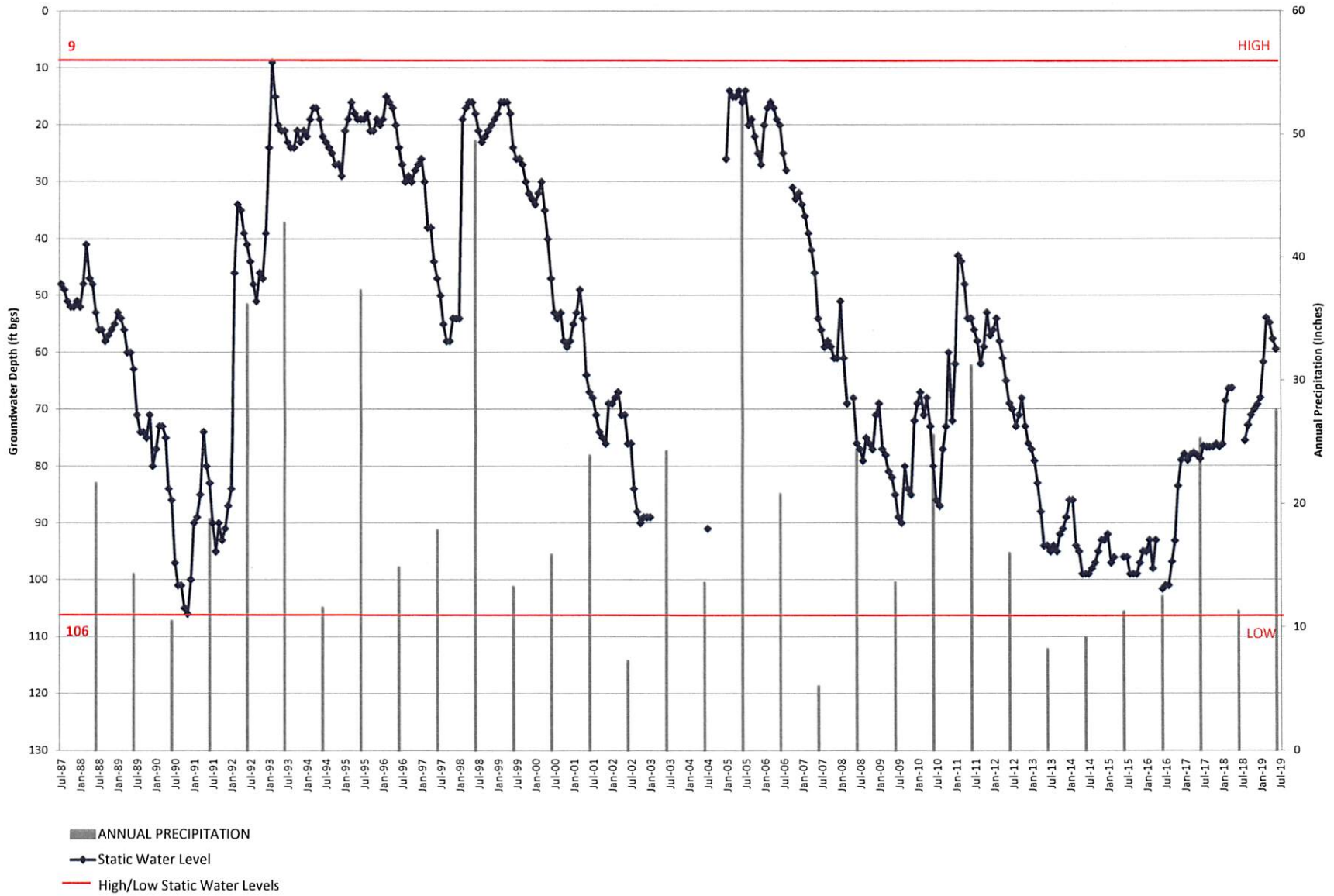


**SCV WATER WELL MITCHELL #5B**  
**STATIC WATER LEVEL VS PRECIPITATION**

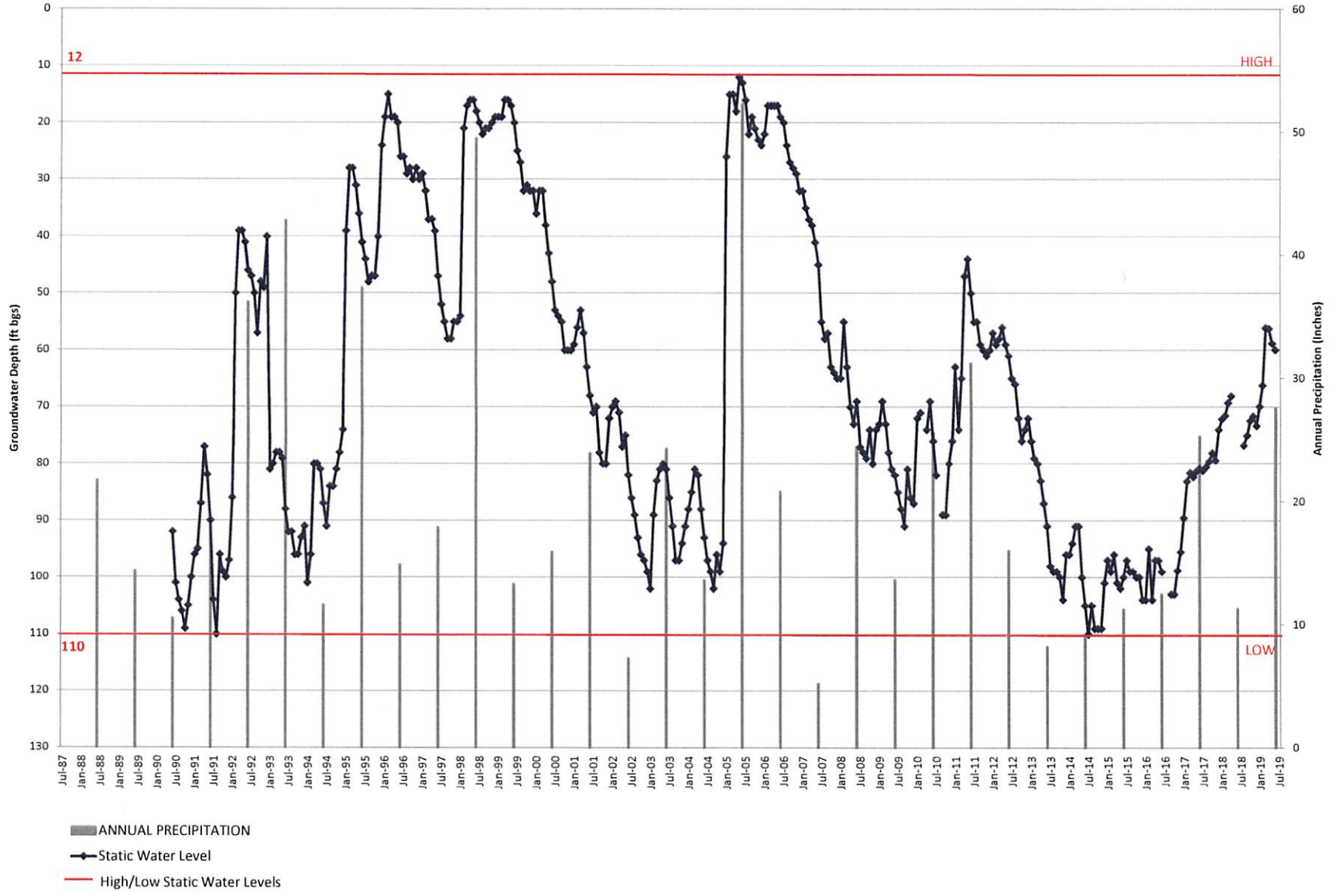




SCV WATER WELL SAND CANYON #3  
 STATIC WATER LEVEL VS PRECIPITATION



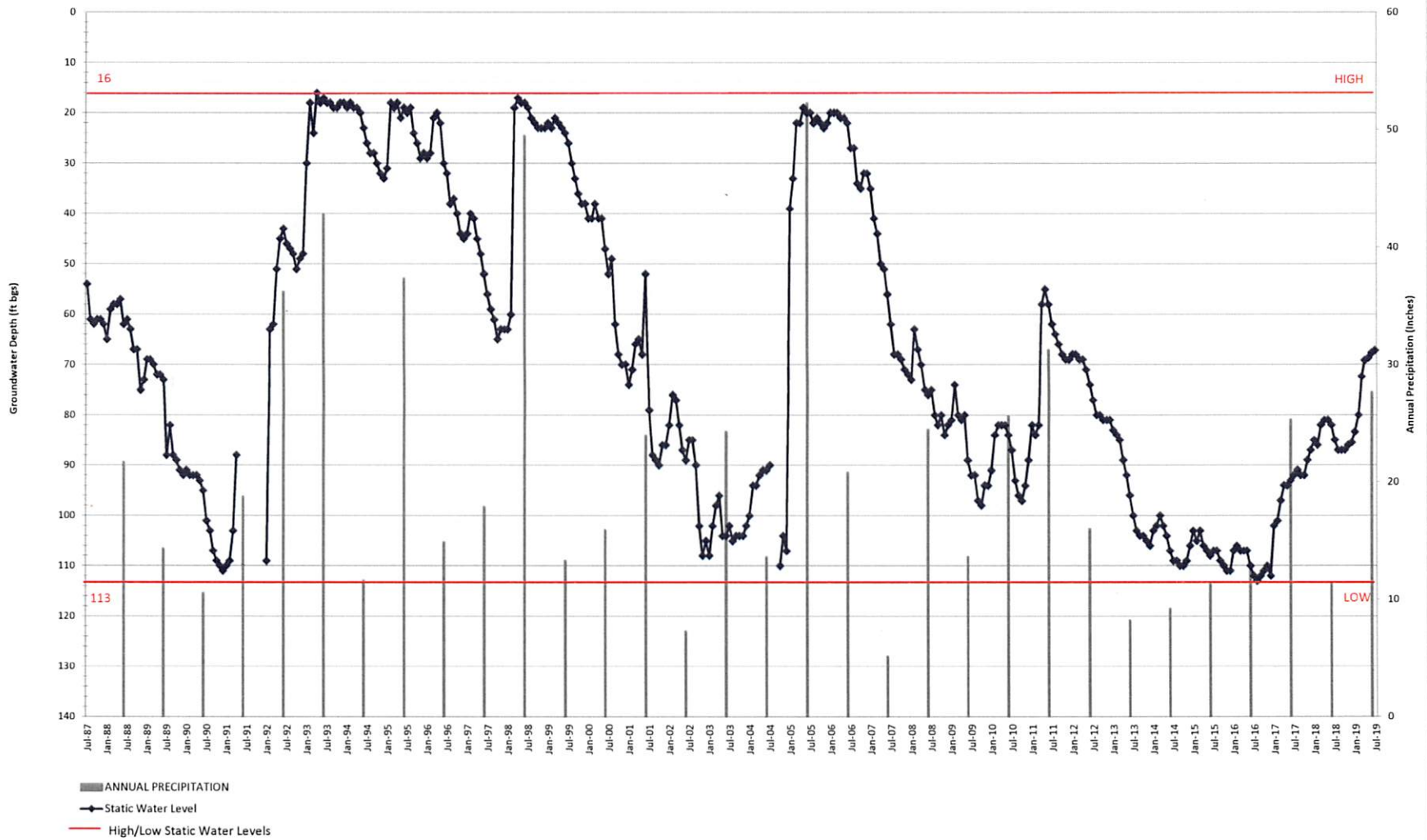
SCV WATER WELL LOST CANYON #2A  
 STATIC WATER LEVEL VS PRECIPITATION



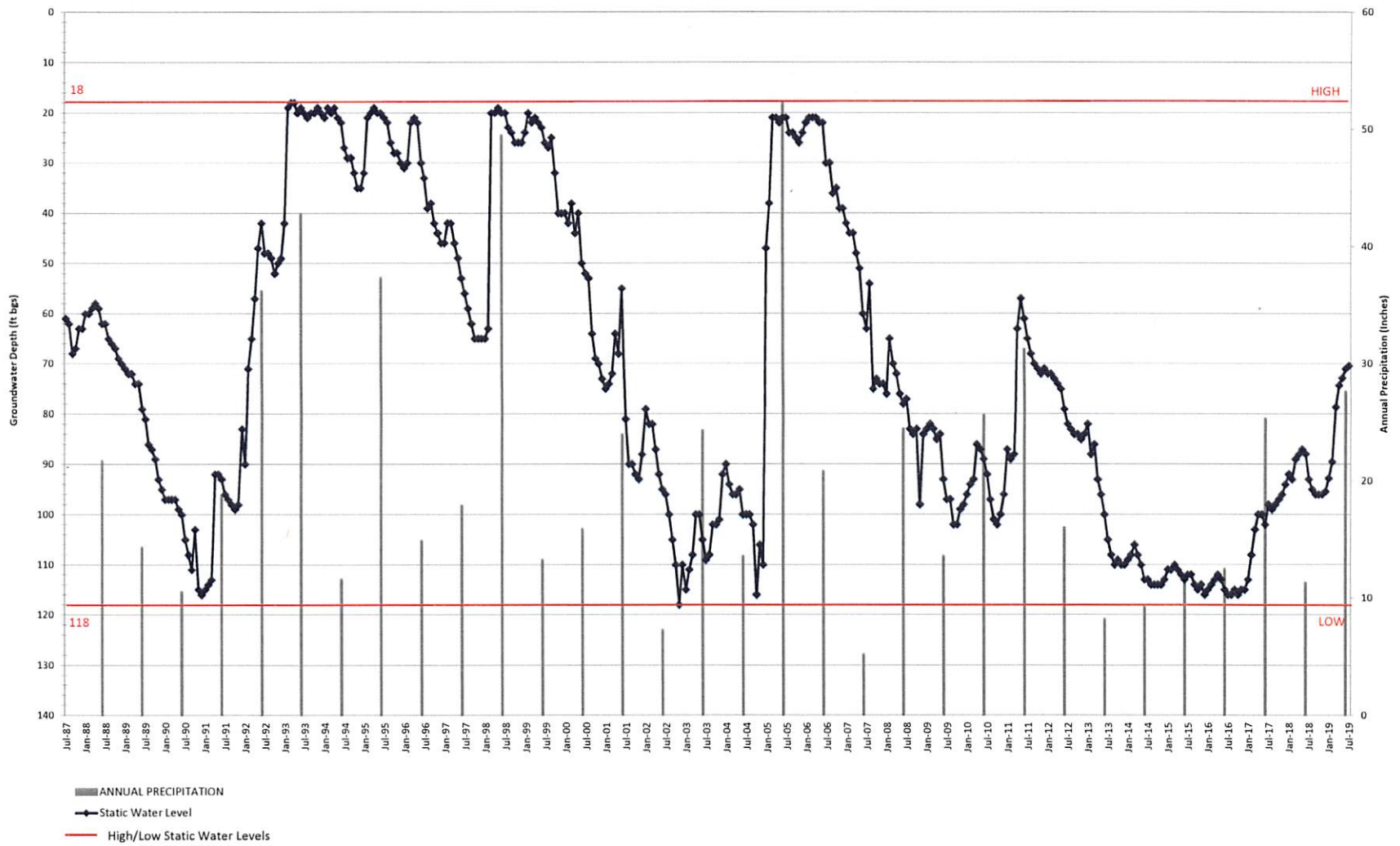
**SCV WATER WELL LOST CANYON #2**  
**STATIC WATER LEVEL VS PRECIPITATION**



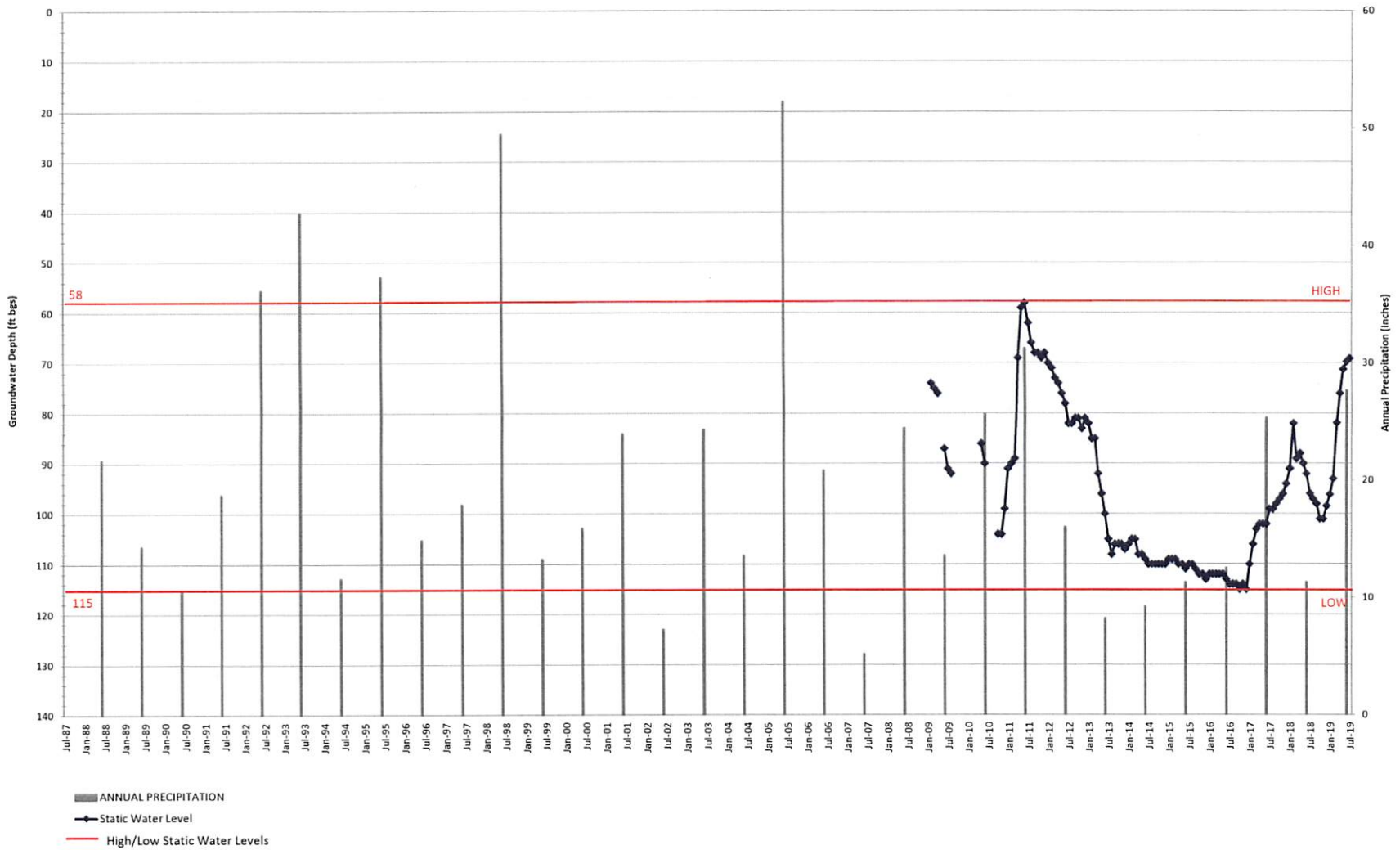
**SCV WATER WELL P4**  
 STATIC WATER LEVEL VS PRECIPITATION



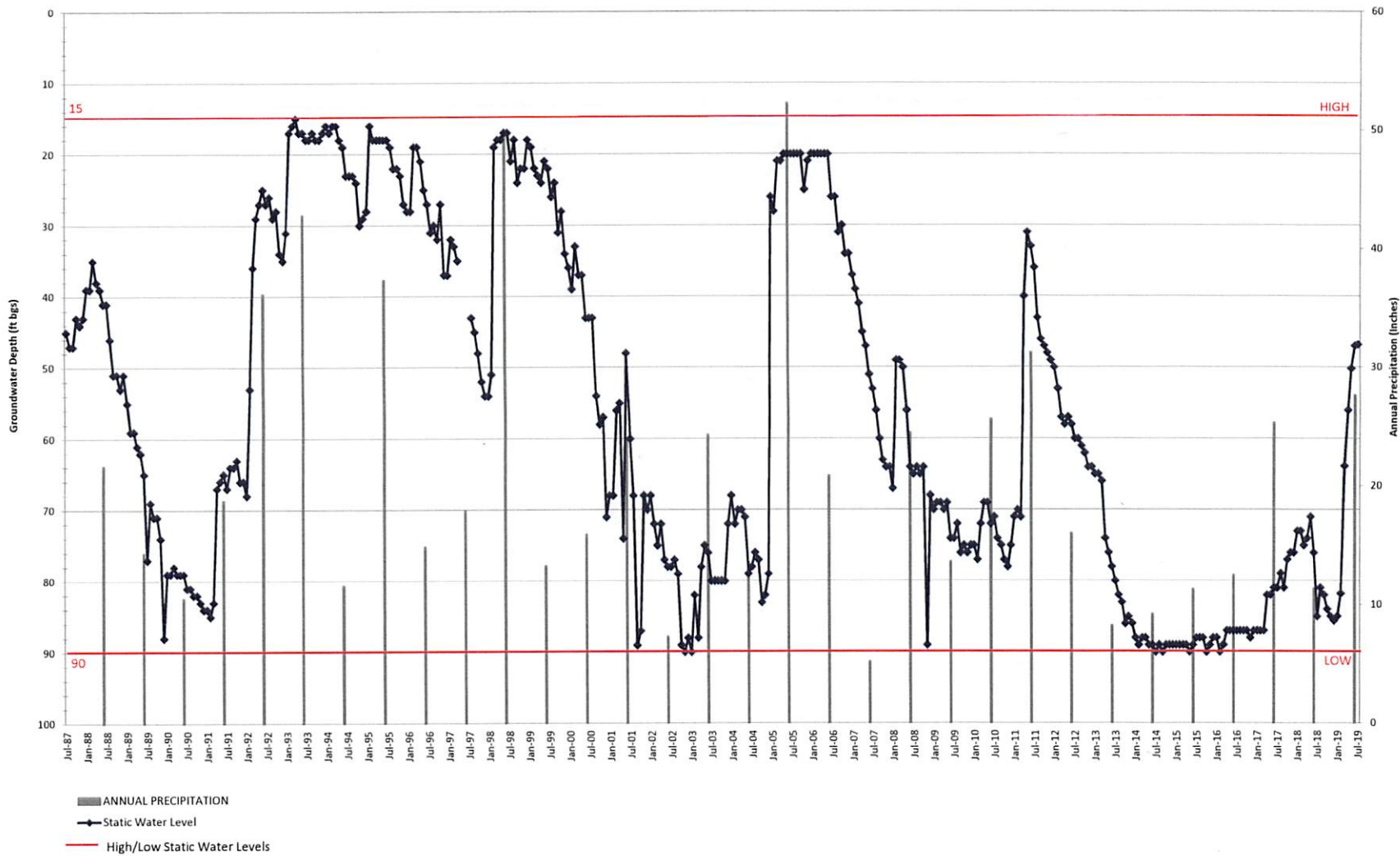
**SCV WATER WELL P3**  
**STATIC WATER LEVEL VS PRECIPITATION**



**SCV WATER WELL P5**  
**STATIC WATER LEVEL VS PRECIPITATION**



**SCV WATER WELL P1**  
 STATIC WATER LEVEL VS PRECIPITATION



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**Santa Clarita Valley Water Agency**  
**Capital Improvement Projects (CIP) Construction Status Report**  
**As of August 15, 2019**

<b>Project</b>	<b>Contractor</b>	<b>Original Contract Amount</b>	<b>Change Orders to Date</b>	<b>% Change Orders</b>	<b>Current Contract Amount</b>	<b>Scheduled Completion</b>	<b>Estimated % of Work Completed</b>	<b>Status</b>
Foothill Feeder Turnout	GSE Construction	\$2,691,300	\$260,459	9.7%	\$2,951,759	September 30, 2019	98%	Construction is complete. Testing and start-up will take place during September 2019.
Well E-17 and Water Improvements	Staats Construction, Padilla Electric, and General Pump	\$571,734	\$0	0%	\$571,734	September 15, 2019	95%	Construction in progress.
Magic Mountain Pipeline Phase 4*	FivePoint / Toro Enterprises	\$3,084,725	\$187,586.20	6.1%	\$3,272,311.20	September 30, 2019	85%	Construction in progress.
Magic Mountain Pipeline Phase 5	FivePoint / Toro Enterprises	\$3,269,978.85	\$0	0%	\$3,269,978.85	January 31, 2020	10%	Construction in progress.
Honby Tank No. 1 – Recoat Roof Interior/Exterior and Interior Spot Repair	Olympus and Associates	\$338,848	\$11,000	3.2%	\$349,848	September 12, 2019	50%	Construction in progress.

\*As of July 26, 2019, expenditures for Kennedy/Jenks Consultants' inspection services work authorization are \$353,073 (91%) of the Board authorized amount of \$386,200

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**Engineering and Operations Committee  
Planning Calendar  
FY 2019/20**

	Item	PowerPoint Presentation (Y/N/Length)	Jul 11 Comm	Aug 1 Comm	Aug 6 Board	Sep 3 Board	Sep 5 Comm	Oct 1 Board	Oct 3 Comm	Nov 5 Board	Nov 7 Comm	Dec 3 Board	Dec 5 Comm	Jan 2 Comm	Jan 7 Board	Feb 4 Board	Feb 6 Comm	Mar 3 Board	Mar 5 Comm	Apr 2 Comm	Apr 7 Board	May 5 Board	May 7 Comm	Jun 2 Board	Jun 4 Comm	Jul 7 Board
1	Monthly Committee Planning Calendar	None	C	C			P		P		P		P	P			P		P	P			P		P	
2	CIP Construction Status Report	None	C	C			P		P		P		P	P			P		P	P			P		P	
3	Monthly Operations and Production Report	None	C	C			P		P		P		P	P			P		P	P			P		P	
4	Third Party Funded Agreements Quarterly Report	None		C							P						P						P			
5	Quarterly Safety Program Presentation	Yes 15 min		C							P						P						P			
6	Annual Safety Program Update (FY 18-19)	Yes 15 min				P																				
7	Recommend Approval of New Golden Triangle Modular Lease	None	C		C																					
8	Tour of Earl Schmidt Filtration Plant	None					P																			
9	Recommend Approval of the Purchase of a Chlorine Scrubber System for the Rio Vista Water Treatment Plant	None					P	P																		
10	Recommend Approval for an Agreement Amendment to The Newhall Land and Farming Company, LLC, for the Magic Mountain Water Pipeline Installation Agreement	None					P	P																		
11	Recommend Approval of Resolution Awarding Construction Contract to TBD for West Ranch Recycled Water Main Extension (Phase 2D) Project	TBD							P	P																
12	Recommend Approval of Construction Contract Funding and a Work Authorization for Replacement Wells Commerce Center Drive Pipeline	TBD							P	P																
13	Recommend Approval of Construction Contract Funding and a Work Authorization for Inspection Services for Magic Mountain Pipeline No. 6A	TBD							P	P																
14	Recommend Approval of a Work Authorization for Final Design of the Replacement Wells On-Site Pipeline/Infrastructure	TBD							P	P																
15	Recommend Approval of Purchase for a Backhoe Replacement - Unit 15								P	P																
16	Recommend Approval of Resolution Awarding Construction Contract for Recycled Water Vista Canyon (Phase 2B) Pipelines	TBD									P	P														
17	Recommend Approval of Resolution Awarding Construction Contract for ESFP Washwater Return and Sludge Systems Project	TBD									P	P														
18	Recommend Approval of Resolution Awarding Contract to TBD for Newhall Tank 2 Recoat and Repairs	None									P	P														

**Engineering and Operations Committee  
Planning Calendar  
FY 2019/20**

	Item	PowerPoint Presentation (Y/N/Length)	Jul 11 Comm	Aug 1 Comm	Aug 6 Board	Sep 3 Board	Sep 5 Comm	Oct 1 Board	Oct 3 Comm	Nov 5 Board	Nov 7 Comm	Dec 3 Board	Dec 5 Comm	Jan 2 Comm	Jan 7 Board	Feb 4 Board	Feb 6 Comm	Mar 3 Board	Mar 5 Comm	Apr 2 Comm	Apr 7 Board	May 5 Board	May 7 Comm	Jun 2 Board	Jun 4 Comm	Jul 7 Board	
19	Recommend Approval of Resolution Awarding Construction Contract to TBD for Recycled Water Vista Canyon (Phase 2B) Tank	TBD											P		P												
20	Recommend Approval of Resolution Awarding Contract to TBD for SC12 Facility Construction	None											P		P												
21	Recommend Approval of Resolution Authorizing SCV Water to Execute Consolidation and Water Service Agreement with State Water Resources Control Board and Los Angeles Residential Community	TBD											P		P												
22	Recommend Approval of Resolution Awarding Construction Contract for Pipeline to the Los Angeles Residential Community	TBD												P		P											
23	Recommend Approval of Construction Contract Funding and a Work Authorization for Replacement Wells Construction	TBD												P		P											
24	Recommend Approval of a Work Authorization for Final Design of the Magic Mountain Reservoir	TBD												P		P											
25	Review FY 2020/21 Major Capital Projects	TBD																	P								
26	Recommend Approval of a Work Authorization for Final Design of the Groundwater Treatment Improvements	TBD																	P		P						
27	Recommend Approval of Construction of a New Deane Zone Pump Station and Cost Sharing Agreement with Developer	TBD																	P		P						
28	Recommend Approval of Construction of Two New 2.5 MG Deane Tank and Cost Sharing Agreement with Developer	TBD																		P		P					
29	Recommend Approval of Work Authorization for Groundwater Modeling Services for Perchlorate Containment Evaluation																								P	P	