



NOTICE AND CALL OF SPECIAL MEETING

Notice is hereby given that I, DEAN EFSTATHIOU, Chair of the Engineering and Operations Committee of the Santa Clarita Valley Water Agency, have called a SPECIAL MEETING of the Engineering and Operations Committee.

Said SPECIAL MEETING of the Committee to be held on:

WEDNESDAY, OCTOBER 3, 2018 AT 5:30 PM

Held at
Santa Clarita Valley Water Agency
27234 Bouquet Canyon Road
Santa Clarita, California 91350
Board and Training Room

Enclosed with and as part of this Notice and Call is an Agenda for the meeting.

Signed: 
Dean Efstathiou, Chair

Date: 9/24/18

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Date: September 19, 2018

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

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

A special meeting of the **Engineering & Operations Committee** is scheduled to meet on **Wednesday, October 3, 2018 at 5:30 PM at Rio Vista Water Treatment Plant** located at 27234 Bouquet Canyon Road, Santa Clarita, CA 91350 in the Training Room.

SPECIAL MEETING AGENDA

<u>ITEM</u>		<u>PAGE</u>
1.	Public Comments	
2. *	Recommend Approval of a Work Authorization for Michael Baker International for Design of the Magic Mountain Pipeline Phase 6 Project	3
3. *	Operations and Production Report	5
4. *	Capital Improvement Projects Construction Status Report	61
5. *	Committee Planning Calendar	63
6.	General Report on Treatment, Distribution, Operations and Maintenance Services Section Activities	
7.	General Report on Engineering Services Section Activities	
8.	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 September 24, 2018.

MGS



COMMITTEE MEMORANDUM

DATE: September 17, 2018

TO: Engineering and Operations Committee

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

SUBJECT: Recommend Approval of a Work Authorization for Michael Baker International for Design of the Magic Mountain Pipeline Phase 6 Project

SUMMARY

The Agency's Capital Improvement Program includes construction of new pipelines to extend its existing Magic Mountain Pipeline to the future Magic Mountain Reservoir. The pipeline extension will be constructed in three phases (Phases 4, 5 and 6). Design has been completed for Phase 4 and is nearing completion for Phase 5. On August 23, 2018 staff issued a Request for Proposal (RFP) for design of the Magic Mountain Pipeline Phase 6 (Phase 6 Pipeline) project to three of its on-call engineering consultants. On September 11, 2018, in response to the RFP, three proposals were received. Staff has evaluated the proposals and is recommending approval of a work authorization for Michael Baker International (MBI) to provide design services for the Phase 6 Pipeline.

DISCUSSION

The Phase 6 Pipeline is approximately 6,900 feet long and 42-inches in diameter. The pipeline will be installed along Magic Mountain Parkway, beginning near the intersection of Commerce Center Drive and ending at the future Magic Mountain Reservoir.

Staff prepared and issued an RFP to three of its on-call engineering consultants to provide design services. Kennedy/Jenks Consultants, Lee & Ro Inc., and MBI submitted proposals. After evaluation of the proposals, staff is recommending MBI for the work based on its team qualifications. The general scope of work includes the following items:

- Provide overall project management, coordination and administration.
- Review various documents (plans, geotechnical report, etc.).
- Design the pipeline, pipe appurtenances, and reservoir access road.
- Prepare a 30% alignment plan.
- Prepare plans, technical specifications, and construction cost estimates for 75%, 90%, and 100% submittals.
- Prepare the Waterworks Standards Main Separation Alternative Request Checklist, as required.

CEQA Determination

The proposed action was previously evaluated by CLWA's Board of Directors. On February 11, 2015, CLWA, as a Responsible Agency under CEQA, certified the Mission Village Final Environmental Impact Report (Final EIR) and adopted the Lead Agency's (the County of Los

Angeles) findings, the Statement of Overriding Considerations and the Mitigation Monitoring and Reporting Programs with the adoption of Resolution No. 3023. CLWA filed the Notice of Determination with the Los Angeles County Clerk's Office and the State Clearinghouse on February 24, 2015. There are no substantial changes to the project and no further CEQA documentation is necessary for the Board to act with regards to the proposed actions.

FINANCIAL CONSIDERATIONS

Work would be performed on a time and expense basis with a design budget of \$230,000. The project is budgeted in the Agency's FY 2018/19 Budget for the Magic Mountain Pipeline No. 6 Project. The project's total estimated cost is \$12,895,000. The project's overall design budget is \$340,000 and the FY 2018/19 portion of the design budget is \$100,000. Although the design expenses are expected to exceed the design budget for FY 2018/19, it is anticipated that the remaining FY 2018/19 budget for other projects will be adequate to cover the difference. As of June 30, 2018, the project expenditures are \$307.

RECOMMENDATION

That the Engineering and Operations Committee recommends that the Board of Directors authorize the General Manager to execute a work authorization for a not-to-exceed amount of \$230,000 for Michael Baker International to provide design services for the Magic Mountain Pipeline Phase 6 project.

ES



Monthly Operations & Production Report

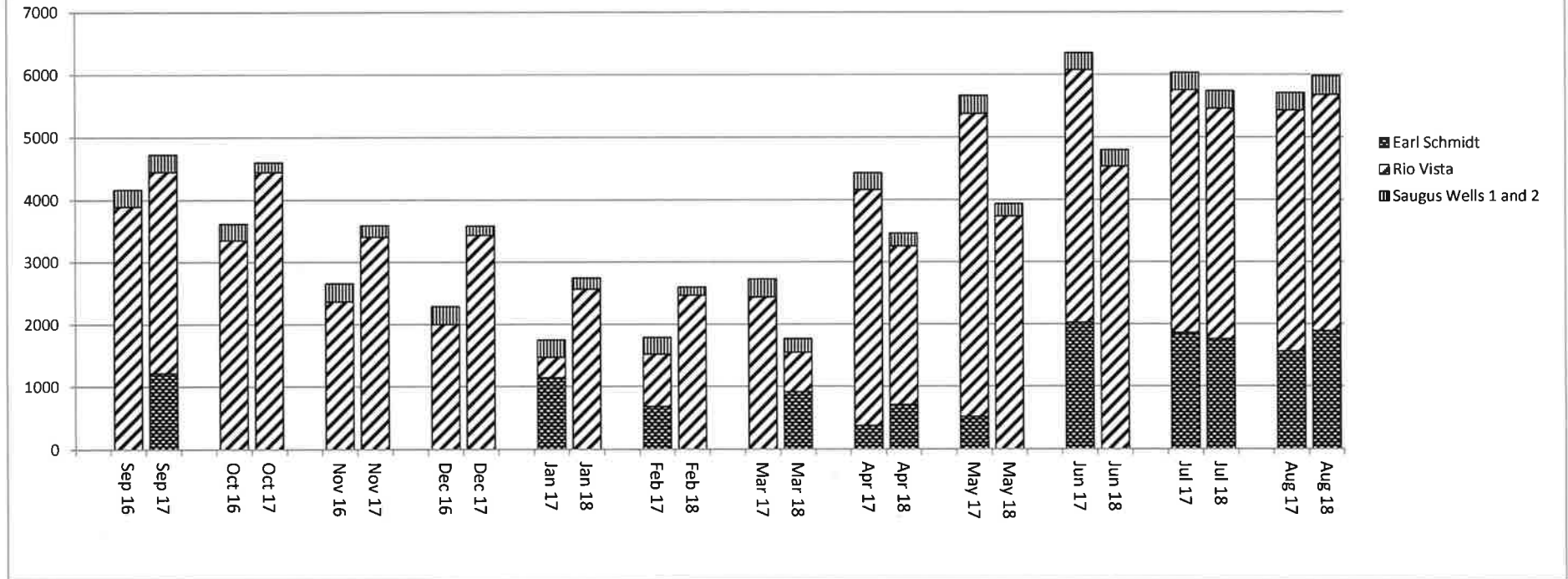
August 2018

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SANTA CLARITA VALLEY WATER AGENCY

August 2018 Import Operations Report

Water Supply (acre-feet)



9

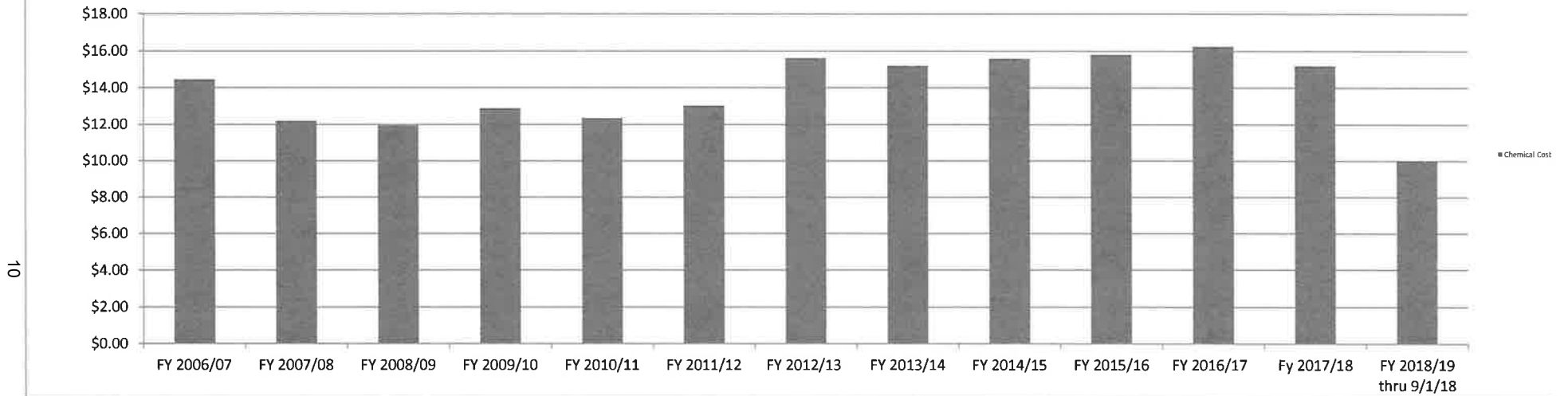
Source	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Total
Earl Schmidt	1218	0	0	0	0	0	909	710	0	0	3705	1886	8428
Rio Vista	3234	4450	3403	3434	2564	2465	637	2544	3735	4539	1755	3793	36553
Saugus 1 and 2	274	154	191	150	176	128	220	210	201	260	283	300	2547
Total	4726	4604	3594	3584	2740	2593	1766	3464	3936	4799	5743	5979	47528
Total Sold	4619	4522	3527	3481	2684	2532	1746	3414	3885	4695	5639	5835	46579
RVWTP Use/Storage	36	39	35	19.29	37.6	23.58	0.71	21.8	67	10	22.7	44.11	356.79
Total Use	4655	4561	3562	3500.29	2721.6	2555.58	1746.71	3435.8	3952	4705	5661.7	5879.11	46935.79
Water Loss	-1.50%	-0.93%	-0.89%	-2.34%	-0.67%	-1.44%	-1.09%	-0.81%	0.41%	-1.96%	-1.42%	-1.67%	-1.25%
Recycled Water	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Total
Valencia	62	65	24	24	15	14	9	39	39	64	79	75	509

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

**Treatment Process
August 2018**

	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	Ozone Dosage
Rio Vista			1.5	0.04	97%	7.08	8.08	0.75	0.73	3.91	0.89	1.1
Earl Schmidt			0.71	0.04	94%	7.38	7.6	1.49	1.51	9.38	0.92	1.1
Saugus 1 and 2	17	>1				7.5	7.61			3.35	0.67	

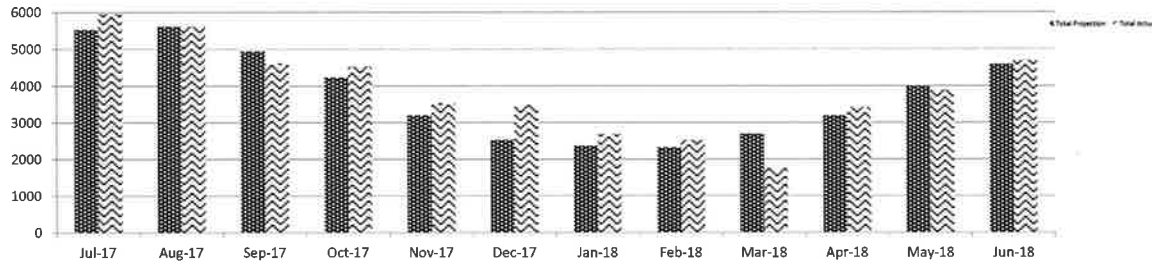
Chemical Treatment Cost



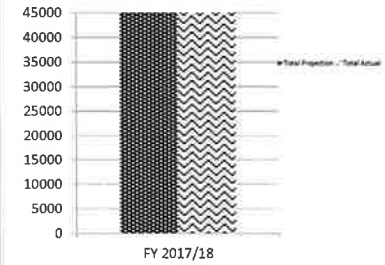
	FY 2006/07	FY 2007/08	FY 2008/09	FY 2009/10	FY 2010/11	FY 2011/12	FY 2012/13	FY 2013/14	FY 2014/15	FY 2015/16	FY 2016/17	Fy 2017/18
Acre Feet Treated Imported Water	44,493	44,732	38,275	34,610	33,441	35,653	41,504	44,909	30,571	27,456	43,670	46,672
Chemical Cost Per Acre Foot*	\$14.46	\$12.19	\$11.95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

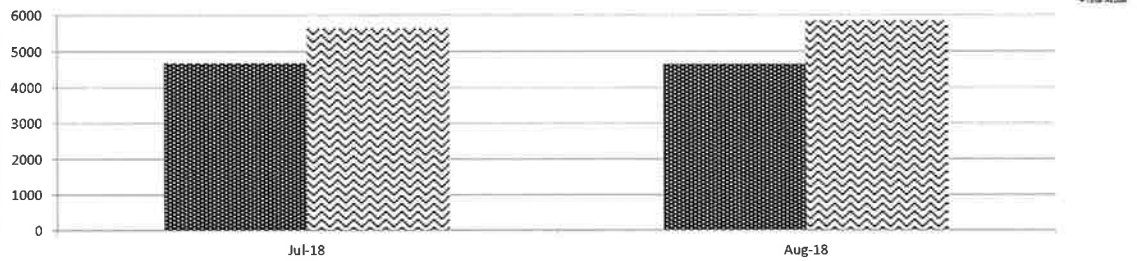
FY 2017/18 Purveyor Projections vs. Actual (acre-feet)



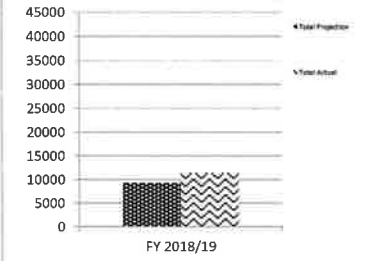
FY 2017/18 Purveyor Projections vs. Actual (acre-feet)



FYTD 2018/19 Purveyor Projections vs. Actual (acre-feet)



FY 2018/19 Purveyor Projections vs. Actual (acre-feet)



11

Purveyor Projections vs. Actual

Month	SCWD Projection	SCWD Actual	%	Valencia Projection	Valencia Actual	%	Newhall Projection	Newhall Actual	%	LA County Projection	LA County Actual	%	Total Projection	Total Actual	Percentage of Estimate
Jul-17	2505	3084	123%	2380	2088	88%	544	785	144%	101	0	0	5530	5957	108%
Aug-17	2585	3035	117%	2345	1723	73%	544	856	157%	140	0	0	5614	5614	100%
Sep-17	2265	2589	114%	2070	1184	57%	480	845	176%	134	0	0	4949	4618	93%
Oct-17	2025	2462	122%	1690	1260	75%	430	804	187%	85	0	0	4230	4526	107%
Nov-17	1545	1921	124%	1300	965	74%	350	640	183%	0	0	0	3195	3526	110%
Dec-17	1265	1955	155%	970	969	100%	290	556	192%	0	0	0	2525	3480	138%
Jan-18	1145	1578	138%	990	853	86%	229	253	110%	0	0	0	2364	2684	114%
Feb-18	1225	1580	129%	880	676	77%	210	275	131%	0	0	0	2315	2531	109%
Mar-18	1305	969	74%	1125	619	55%	260	157	60%	0	0	0	2690	1745	65%
Apr-18	1465	1905	130%	1410	1160	82%	310	349	113%	0	0	0	3185	3414	107%
May-18	1785	2075	116%	1880	1335	71%	330	473	143%	0	0	0	3995	3883	97%
Jun-18	2105	2264	108%	2080	1622	78%	410	808	197%	0	0	0	4595	4694	102%
FY 2017/18	21220	25417	120%	19120	14454	76%	4387	6801	155%	460	0	0	45187	46672	103%
Jul-18	2453	2694	110%	1655	1921	116%	558	1023	183%	0	0	0	4666	5638	121%
Aug-18	2453	2796	114%	1637	2026	124%	558	1012	181%	0	0.42	0	4648	5835	126%
FY 2018/19	4906	5490	112%	3292	3947	120%	1116	2035	182%	0	0.42	0	9314	11473	123%

SANTA CLARITA VALLEY WATER AGENCY
Record of Weather Observations
 August 2018

DATE	High Temperature	Low Temperature	Precipitation 2018	Precipitation 2017
1-Aug	97.9	75.2	0.00	0.00
2-Aug	95.4	64.8	0.00	0.00
3-Aug	96.8	63.1	0.00	0.00
4-Aug	95.4	58.5	0.00	0.00
5-Aug	97.7	60.3	0.00	0.00
6-Aug	103.5	59.7	0.00	0.00
7-Aug	104	61	0.00	0.00
8-Aug	96.1	64.9	0.00	0.00
9-Aug	102	62.6	0.00	0.00
10-Aug	95	64.4	0.00	0.00
11-Aug	92	63	0.00	0.00
12-Aug	91	67	0.00	0.00
13-Aug	90	64	0.00	0.00
14-Aug	91	68.5	0.00	0.00
15-Aug	93	60	0.00	0.00
16-Aug	93	62	0.00	0.00
17-Aug	94	64	0.00	0.00
18-Aug	92	63	0.00	0.00
19-Aug	95	62	0.00	0.00
20-Aug	87	65	0.00	0.00
21-Aug	88	62	0.00	0.00
22-Aug	91	62	0.00	0.00
23-Aug	91	57	0.00	0.00
24-Aug	86	53	0.00	0.00
25-Aug	86	57	0.00	0.00
26-Aug	86	61	0.00	0.00
27-Aug	83	59	0.00	0.00
28-Aug	84	53	0.00	0.00
29-Aug	89	57	0.00	0.00
30-Aug	93	53	0.00	0.00
31-Aug	91	58	0.00	0.07

TOTAL			0.00	0.07
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		2017-2018	2016-2017
<i>Total Precipitation of Current Month</i>		0.00	0.07
<i>Total Precipitation End of Previous Month</i>		11.13	25.33
Total Precipitation Since October 1st		11.13	25.40
<i>Temperature Averages for Current Month</i>	HIGH	92.6	93.2
	LOW	61.5	61.7

Santa Clarita Valley Water Agency
Summary of Annual Precipitation
October 1st through September 30th
(Total in Inches)

	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
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
TOTAL	49.14	13.11	16.25	23.67	7.34	24.34	13.59	52.55	20.58	6.58	23.12

	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18
Oct	0.09	4.04	1.34	1.97	0.15	0.11	0.32	0.17	0.43	0.00
Nov	1.78	0.08	1.87	2.50	2.20	1.41	0.64	0.21	1.49	0.06
Dec	3.01	4.28	11.97	1.19	1.54	0.37	6.16	0.49	3.44	0.01
Jan	0.69	9.13	0.96	1.23	1.94	0.06	1.44	6.07	10.30	3.18
Feb	6.78	4.96	5.36	0.13	0.42	5.26	0.74	0.69	8.98	0.35
Mar	1.18	0.69	8.86	4.99	1.21	1.64	1.09	2.75	0.33	7.50
Apr	0.07	2.40	0.12	4.02	0.00	0.31	0.16	0.37	0.09	0.02
May	0.01	0.07	0.74	0.01	0.74	0.00	0.66	0.09	0.26	0.01
Jun	0.03	0.00	0.04	0.00	0.00	0.00	0.01	0.01	0.00	0.00
Jul	0.00	0.00	0.01	0.00	0.08	0.02	0.87	0.00	0.01	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	0.00
TOTAL	13.64	25.65	31.27	16.07	8.28	9.23	12.87	10.87	25.53	11.13

**NEWHALL WATER DIVISION
WATER PRODUCTION 2018 (ACRE-FEET)**

GROUNDWATER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Total
NEWHALL SYSTEM													
N12	0	0	0	0	0	0	0	0	0				0
N13	216	214	164	274	272	53	0	0					1192
CASTAIC SYSTEM													
C1	30	30	20	33	41	37	43	48					283
C2	15	15	9	16	19	17	20	22					133
C7	34	33	22	19	0	0	0	0					108
PINETREE SYSTEM													
P1	0	0	0	0	0	0	0	0					0
P3	0	0	0	0	0	0	0	0					0
P4	0	0	0	0	0	0	0	0					0
P5	0	0	0	0	0	0	0	0					0
S1 & S2	47	34	59	56	54	70	76	80					477
TOTAL GROUNDWATER	342	327	273	398	386	177	139	151					2192
IMPORT + S1 & S2													
NEWHALL SYSTEM													
N-3	51	62	33	61	112	377	500	496					1693
CASTAIC SYSTEM													
N-1	33	33	24	58	87	120	144	132					629
PINETREE SYSTEM													
N-2	120	120	75	153	184	204	244	242					1342
TESORO SYSTEM													
N-4	50	60	25	77	90	108	136	141					687
TOTAL IMPORT + S1 & S2	253	275	157	349	473	808	1023	1012					4351
VWD- INTERTIE	5	0	0	0	0	0	0	0	0	0	0	0	5
TOTAL GROUNDWATER (INCLUDES S1 & S2)	342	327	273	398	386	177	139	151					2192
TOTAL IMPORT (NO S1 & S2)	206	241	98	292	420	738	947	931					3875
TOTAL VWD INTERTIE	5	0	0	0	0	0	0	0					5
TOTAL PRODUCTION	553	568	372	690	806	915	1087	1082					6072
% BY SOURCE													
GROUNDWATER	62%	58%	74%	58%	48%	19%	13%	14%					36%
IMPORT	37%	42%	26%	42%	52%	81%	87%	86%					64%
INTERTIE	1%	0%	0%	0%	0%	0%	0%	0%					0%

**SANTA CLARITA WATER DIVISION
WATER PRODUCTION 2018 (ACRE-FEET)**

GROUNDWATER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
LOST CANYON NO.2	0	10	0	2	0	0	0	0					12
LOST CANYON NO.2A	5	28	20	37	68	88	85	40					371
SAND CANYON	0	0	18	22	68	85	81	42					316
MITCHELL 5A	0	0	13	1	33	0	39	0					86
MITCHELL 5B	0	0	0	2	0	55	39	1					97
SIERRA	2	1	19	2	25	54	31	64					198
NORTH OAKS EAST	1	1	12	5	1	1	1	2					24
NORTH OAKS CENTRAL	1	1	0	2	1	2	2	3					12
NORTH OAKS WEST	1	2	18	4	6	0	0	0					31
HONBY	0	0	12	1	0	0	1	1					15
GUIDA	10	10	21	10	29	26	51	44					201
CLARK	14	7	21	12	23	24	52	48					201
SANTA CLARA	1	6	13	1	0	1	0	1					23
VALLEY CENTER	0	1	19	2	1	36	117	99					275
TOTAL ALLUVIUM	35	67	186	103	255	372	499	345	0	0	0	0	1862
SAUGUS WELLS S1 & S2	129	94	161	154	147	191	207	219					1302
TOTAL GROUNDWATER	164	161	347	256.81	402	563	706.21	564.44	0	0	0	0	3164
IMPORT + S1 & S2	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
SC-1 BOUQUET	138	152	31	47	197	233	283	301					1381
SC-2 HONBY	473	445	275	548	626	730	804	809					4710
SC-3 WILEY	43	44	47	84	87	91	107	107					610
SC-4 HONBY #2	0	0	0	0	80	41	0	0					122
SC-5 RIO VISTA	177	174	50	319	171	230	230	229					1581
SC-6 LOST CANYON	160	239	186	314	243	163	199	144					1649
SC-7	49	204	108	126	154	177	295	257					1370
SC-8	181	62	32	77	222	185	230	332					1321
SC-9	107	99	48	94	177	191	206	141					1064
SC-10	57	52	18	87	9	52	68	76					419
SC-11	46	37	38	103	10	60	95	76					465
SC-12	76	0	0	0	0	0	41	183					300
SC-13	71	71	136	106	99	110	135	141					870
TOTAL IMPORT + S1 & S2	1,578	1,580	969	1,905	2,076	2,264	2,694	2,796	0	0	0	0	15,862
METERING ADJUSTMENT	0	0	-4	0	0	0	0						-4
NET IMPORT + S1 & S2	1,578	1,580	965	1,905	2,076	2,264	2,694	2,796	0	0	0	0	15,858
TOTAL GROUNDWATER (INCLUDES S1 & S2)	164	161	347	257	402	563	706	564	0	0	0	0	3164.01
TOTAL IMPORT (NO S1 & S2)	1,449	1,486	808	1,751	1,929	2,074	2,487	2,577	0	0	0	0	14,560
TOTAL VWD INTERTIE	0	0	8	0	0	0	0	0	0	0	0	0	8
TOTAL PRODUCTION	1,613	1,647	1,163	2,008	2,331	2,636	3,193	3,141	0	0	0	0	17,732
% BY SOURCE													
GROUNDWATER	10%	10%	30%	13%	17%	21%	22%	18%					18%
IMPORT	90%	90%	69%	87%	83%	79%	78%	82%					82%
VWD INTERTIE	0%	0%	1%	0%	0%	0%	0%	0%					0%

**VALENCIA WATER DIVISION
WATER PRODUCTION 2018 (ACRE-FEET)**

ALLUVIUM	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
D	43	49	27	60	62	79	93	92					505
E15	51	44	31	32	43	53	78	70					402
N	63	67	31	84	72	115	139	112					685
N7	61	138	69	101	137	78	104	118					805
N8	65	100	58	92	130	75	107	122					749
Q2	39	69	40	90	92	113	130	123					698
T7	4	7	16	7	8	10	6	4					61
U6	5	8	12	14	11	4	9	8					71
U4	3	6	10	6	6	7	5	4					47
S6	65	124	39	81	104	95	147	189					845
S7	15	28	25	43	57	45	68	51					331
S8	24	32	17	44	62	60	53	89					380
W11	41	34	28	23	37	65	124	110					462
W9	3	2	8	29	29	20	24	21					136
W10	65	118	28	111	120	143	169	150					905
TOTAL ALLUVIUM	548	825	441	817	970	963	1255	1263					7082

SAUGUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
159	3	4	1	12	6	0	0	0					27
160 - DOM	1	1	1	1	1	1	1	1					9
160 - VGC*	22	28	11	57	58	82	93	77					428
201	0	0	0	0	0	0	0	0					0
205	0	0	0	0	0	0	0	0					0
206	71	59	30	95	153	141	131	134					814
207	66	68	92	94	112	147	186	157					922
TOTAL SAUGUS	162	161	135	261	330	371	411	369					2200

IMPORT WATER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
V-1	95	96	58	94	101	136	174	186					940
V-2	220	108	131	273	315	436	510	518					2510
V-4	91	62	22	40	119	108	234	246					924
V-5	183	153	172	307	348	411	394	374					2343
V-6	150	137	111	164	202	185	144	144					1237
V-7	24	36	25	51	71	61	71	93					432
V-8	91	84	100	230	180	284	393	465					1827
TOTAL IMPORT	853	676	619	1,160	1,336	1,622	1,921	2,026					10,214

TOTAL GROUNDWATER	710	986	575	1,077	1,300	1,334	1,666	1,633					9,282
TOTAL IMPORT	853	676	619	1,160	1,336	1,622	1,921	2,026					10,214
TOTAL PRODUCTION	1,564	1,662	1,194	2,237	2,636	2,957	3,587	3,659					19,495

% BY SOURCE													
GROUNDWATER	45%	59%	48%	47%	48%	44%	45%	43%					46%
IMPORT WATER	55%	41%	52%	53%	52%	56%	55%	57%					54%
RECYCLED WATER	15	14	9	39	39	64	79	75					335
Well 201 Discharge	224	201	128	155	154	149	153	148					1312

*Not used in the calculation for % by source

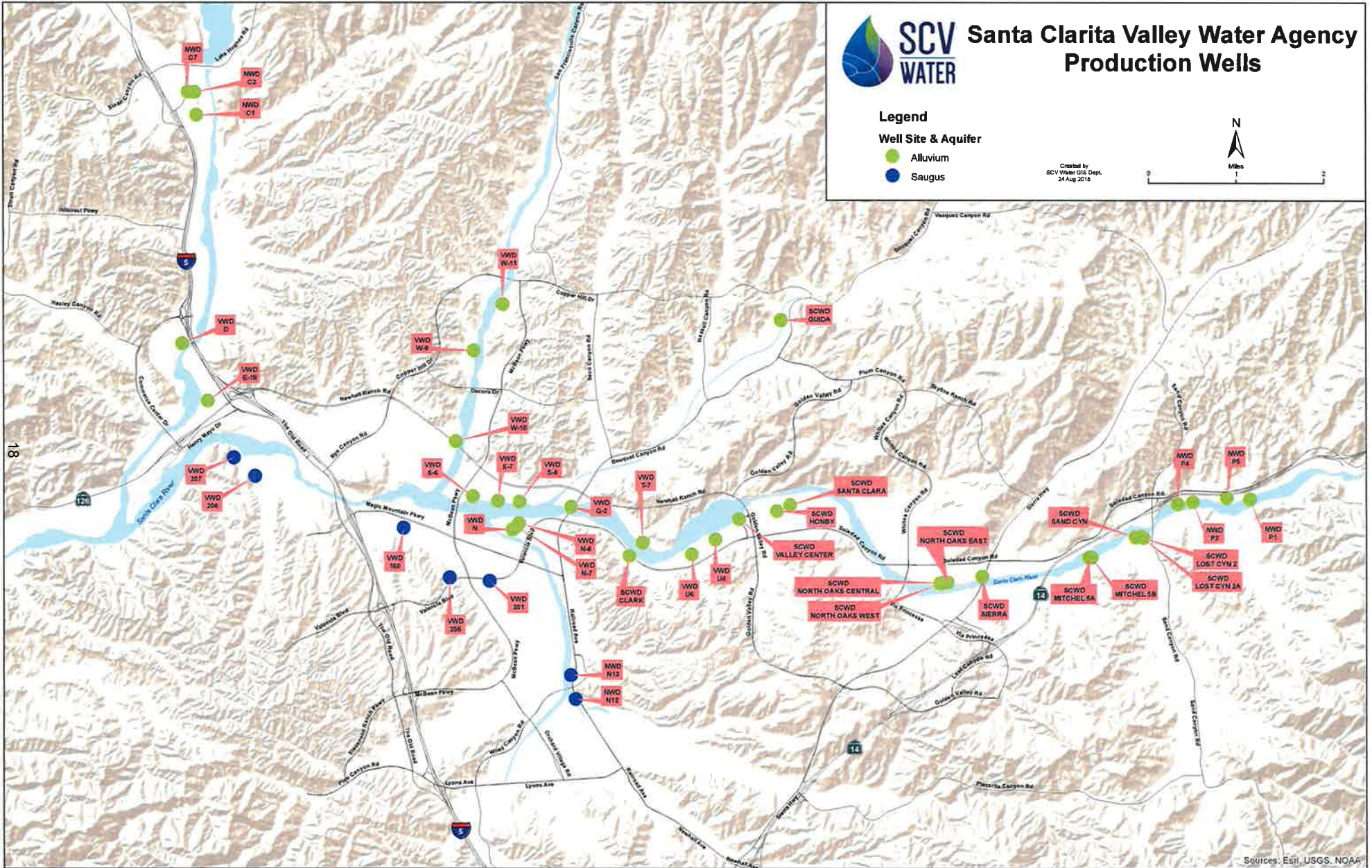
LOS ANGELES COUNTY WATERWORKS DISTRICT 36

SOURCE

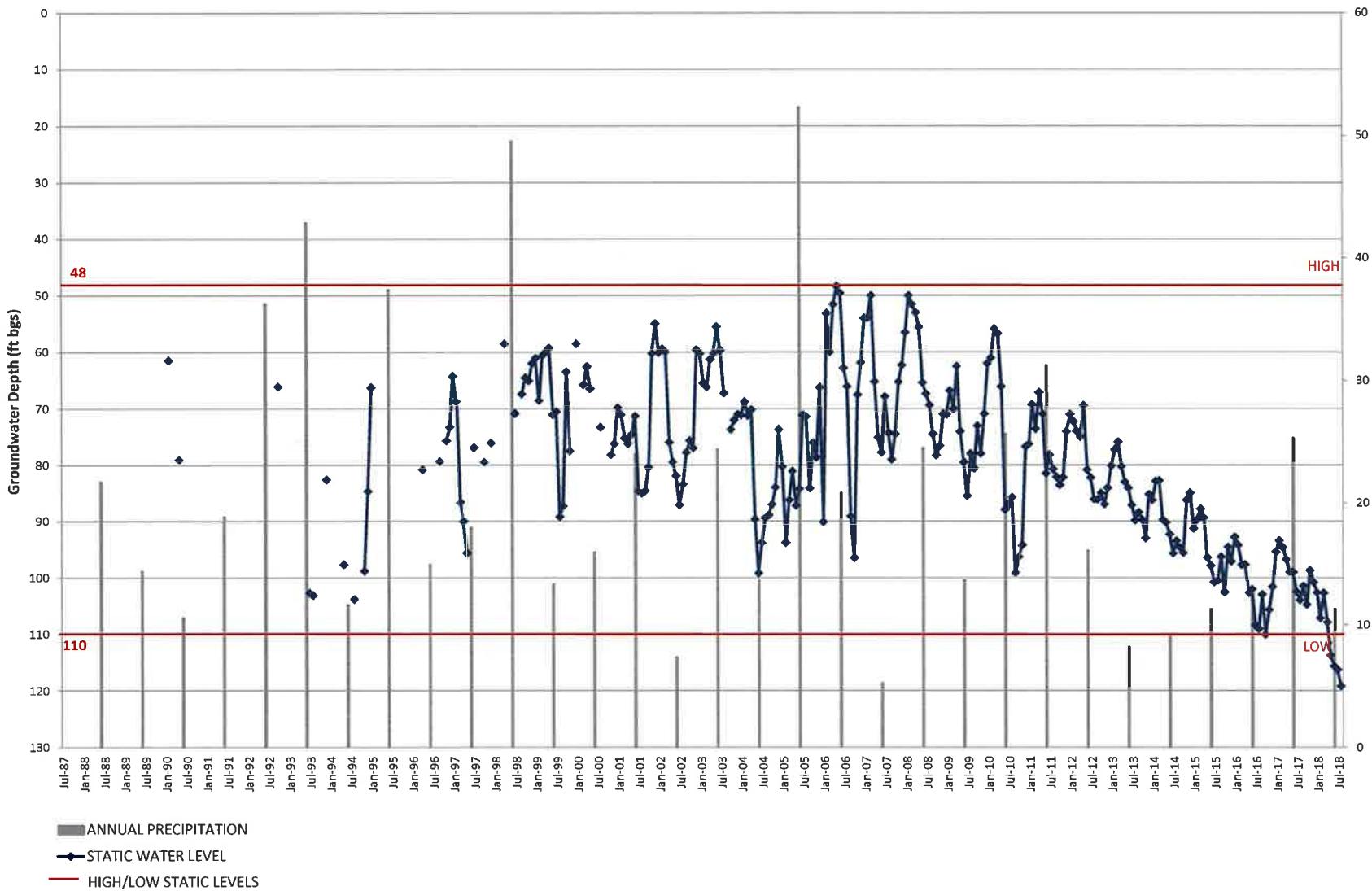
TURNOUT	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	TOTAL
LA 1	0	0.02	0	0.01	0	0.00	0.009	0					0.04
LA 2	0	1.04	0.44	0.38	0.6046	0.43	0.623	0.4204					3.94
TOTAL	0	1.06	0.44	0.39	0.6046	0.4296	0.632	0.4204					3.98

RAW WATER

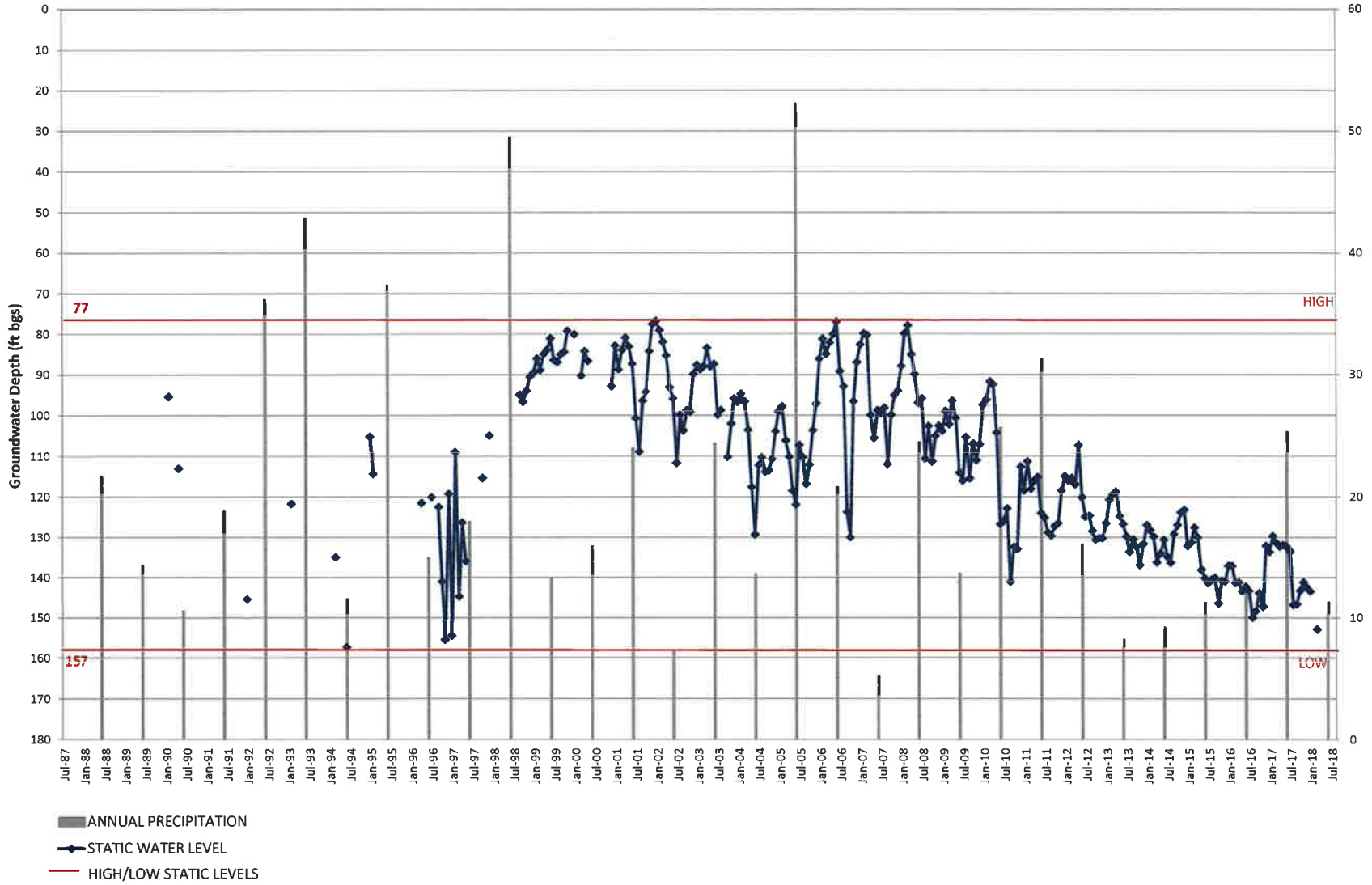
SOURCE	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	TOTAL
RVTP	2,564	2,465	637	2,545	3735	4539	3,705	3,793					23,981.80
ESTP	0	0	909	710	0	0	1,755	1,885					5,259.42
Wells	176	126	220	210	201	260	283	300					1,777.25
TOTAL	2,740	2,592	1,766	3,465	3,936	4,799	5,742	5,978					31,018.47



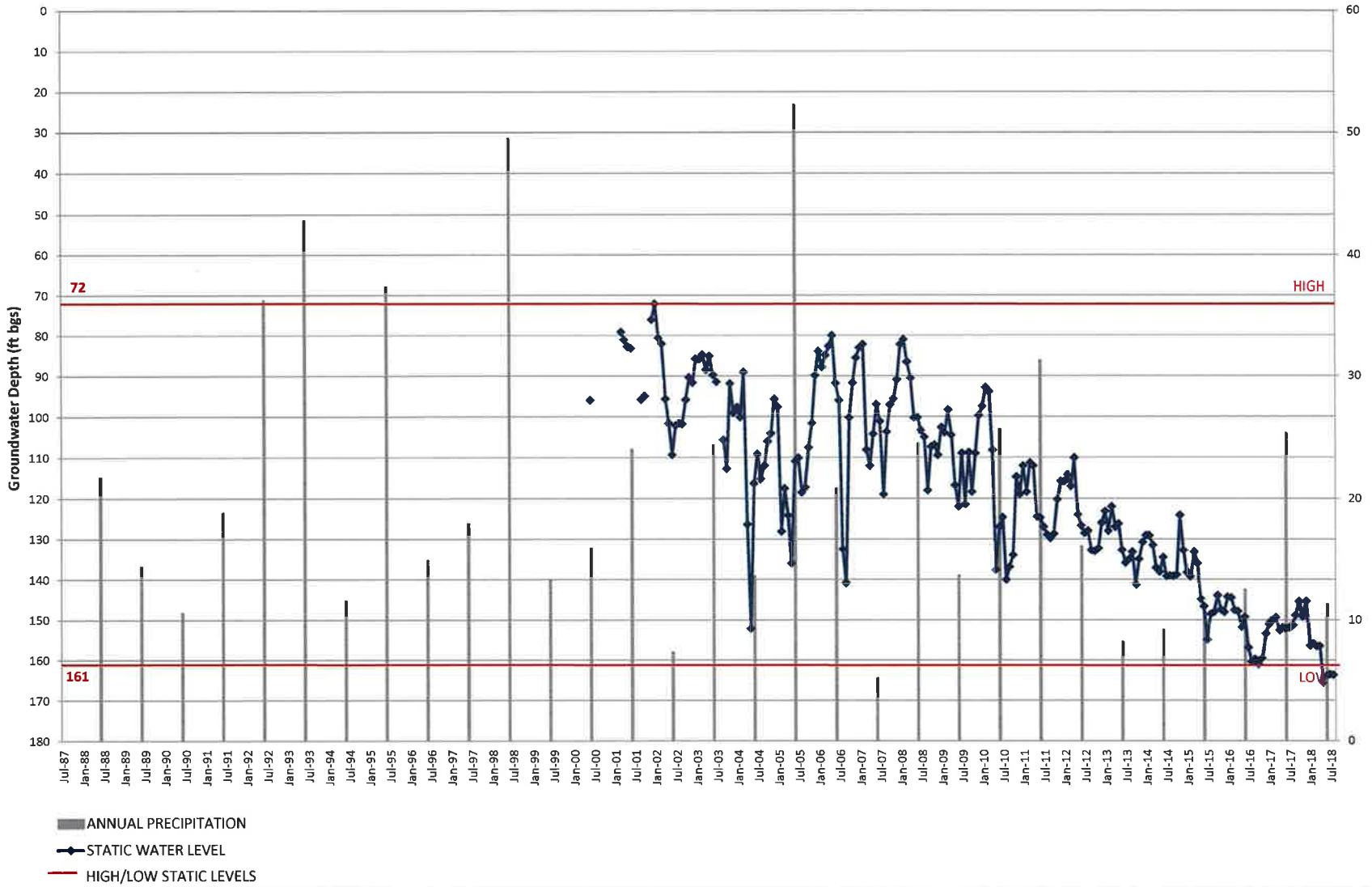
SCV WATER WELL 160
STATIC WATER LEVEL VS PRECIPITATION



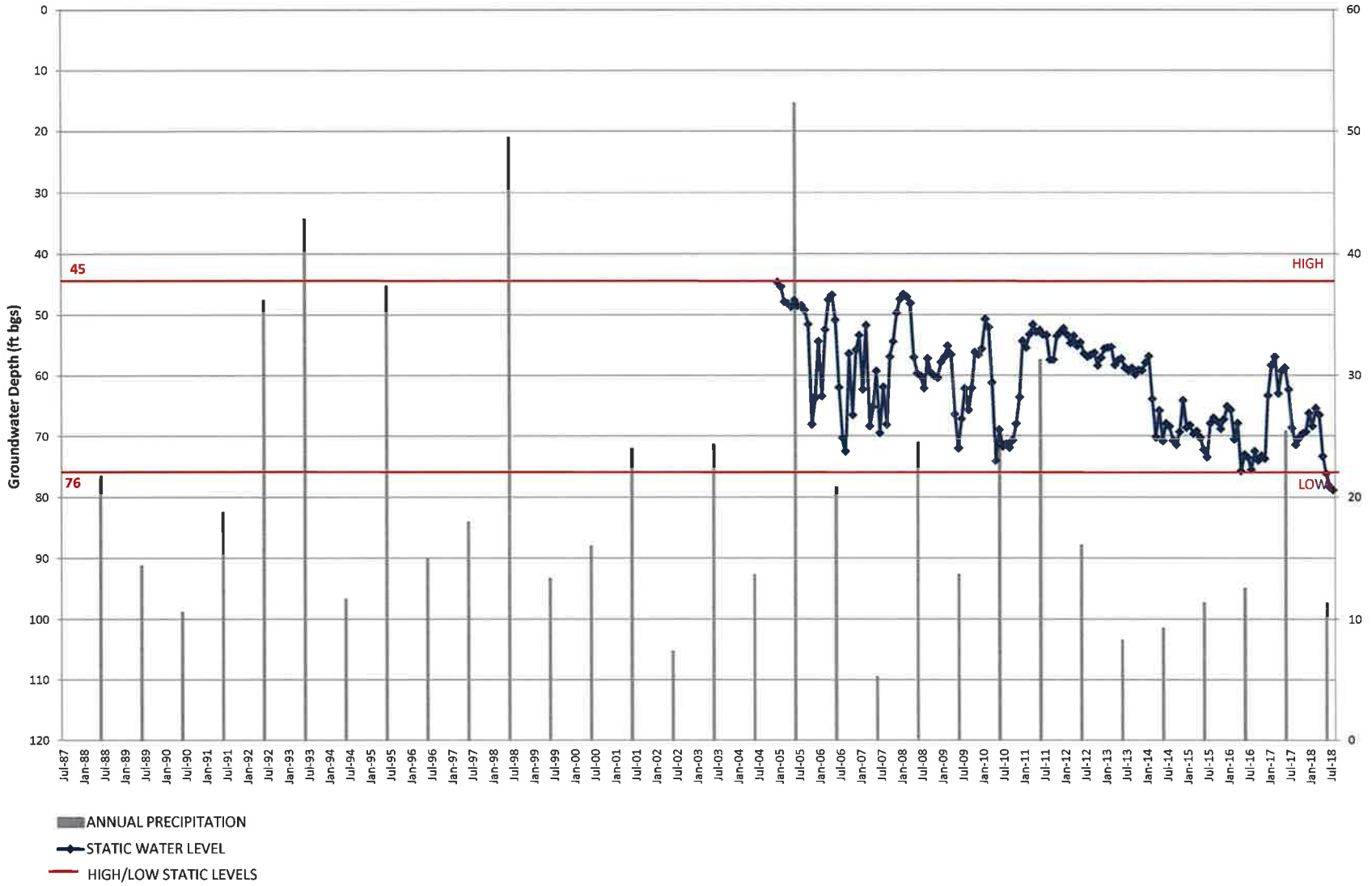
SCV WATER WELL 201
 STATIC WATER LEVEL VS PRECIPITATION



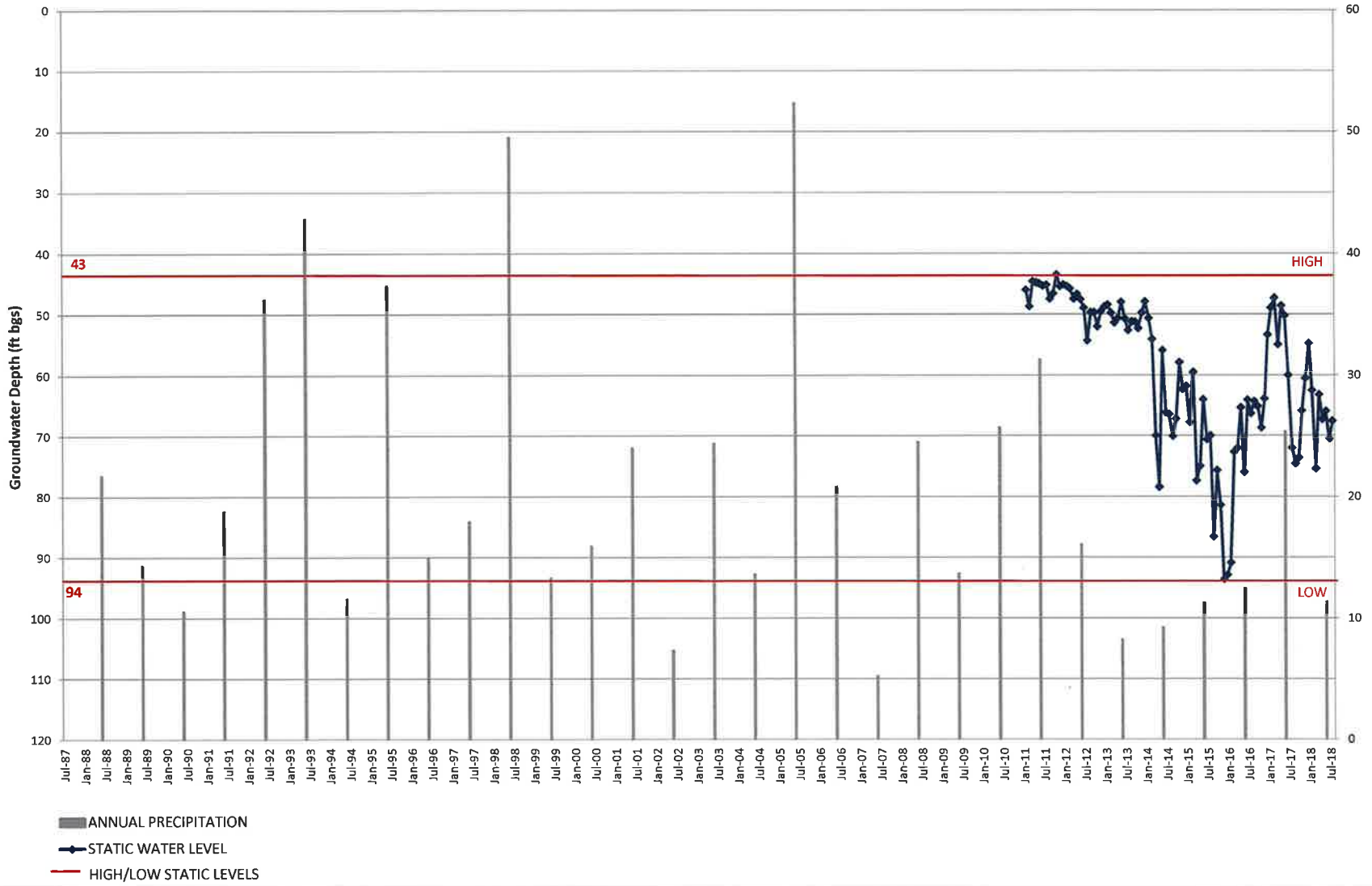
SCV WATER WELL 205
 STATIC WATER LEVEL VS PRECIPITATION



SCV WATER WELL 206
STATIC WATER LEVEL VS PRECIPITATION



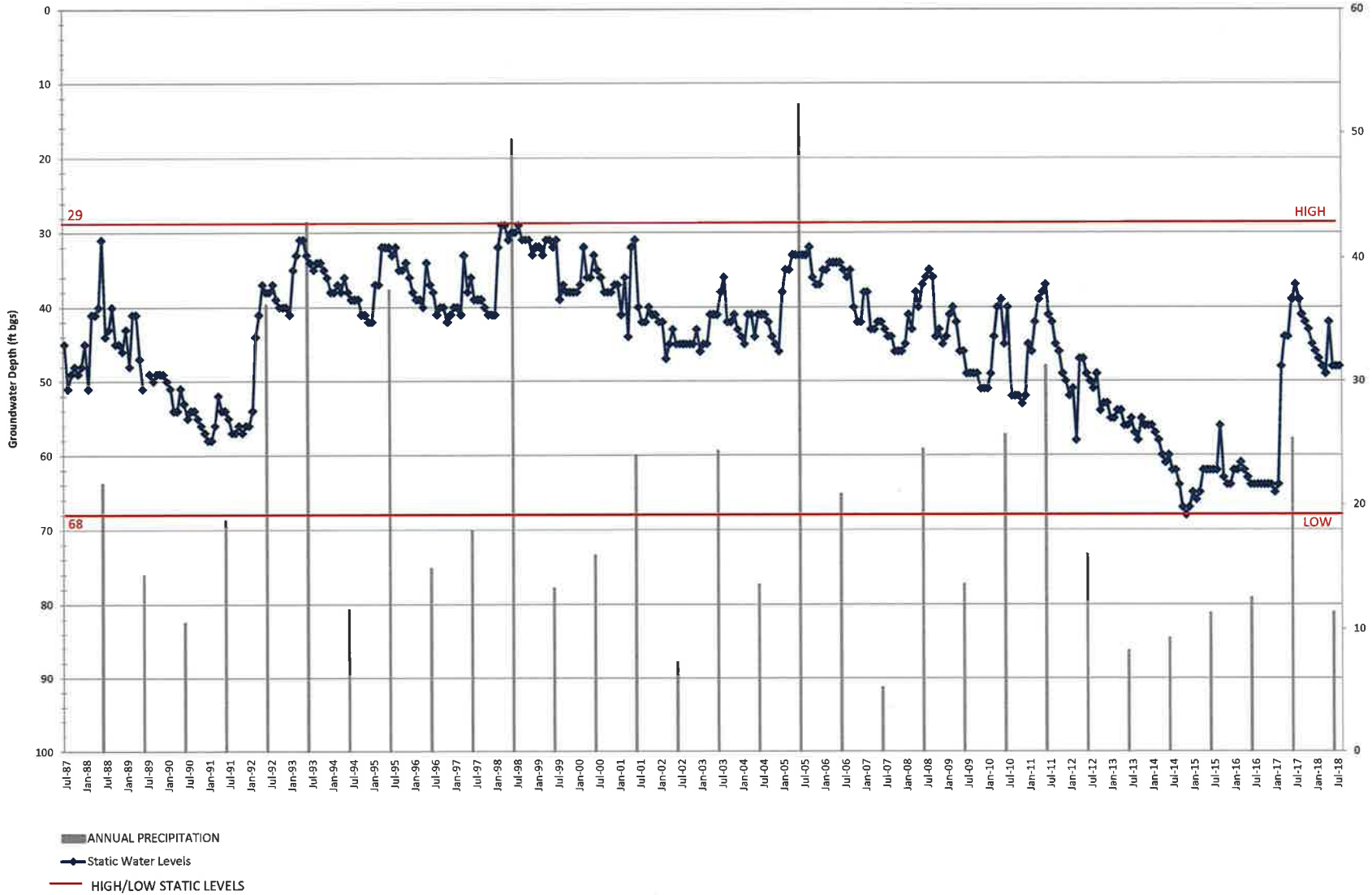
SCV WATER WELL 207
 STATIC WATER LEVEL VS PRECIPITATION



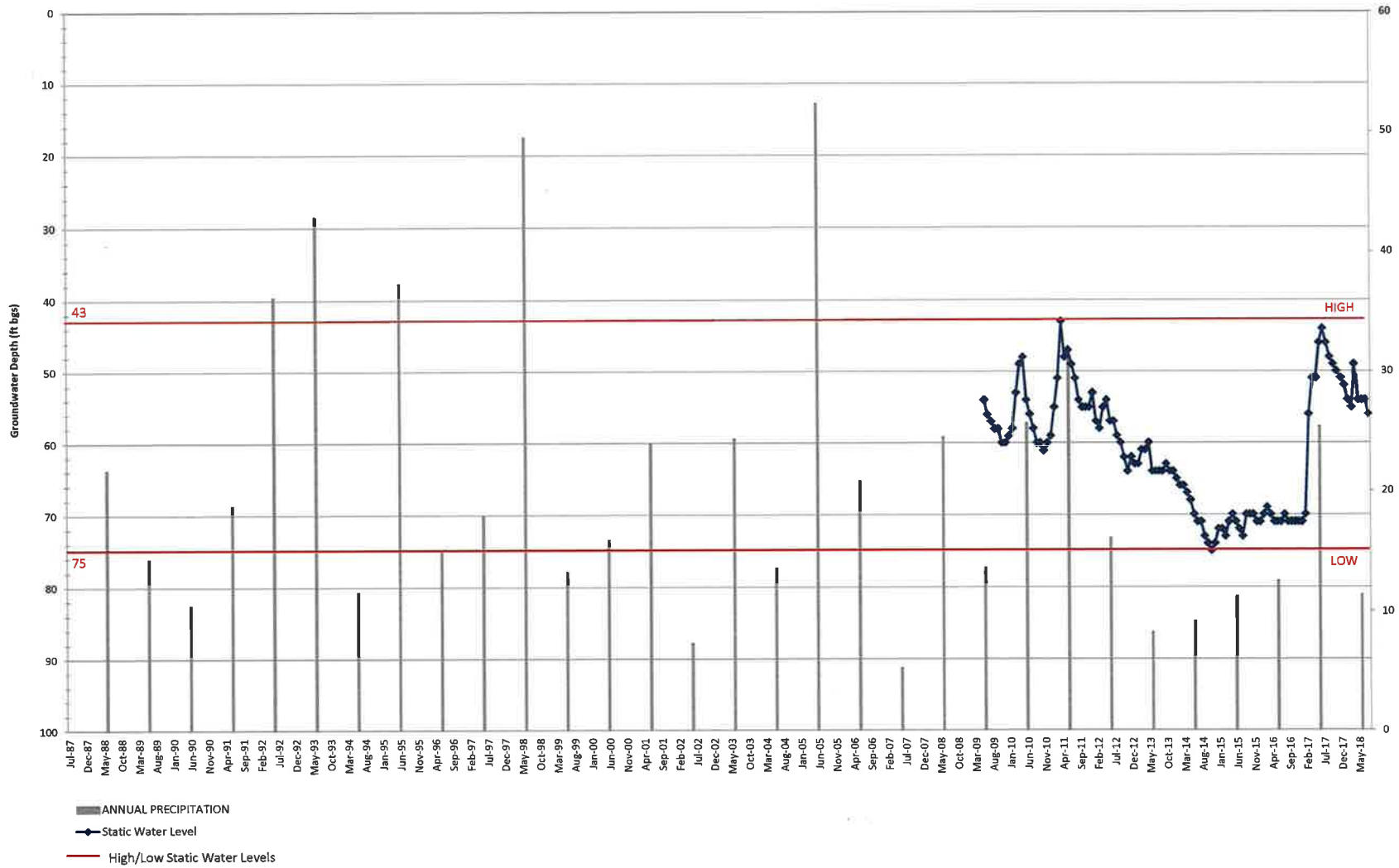
SCV WATER WELL C1
 STATIC WATER LEVEL VS PRECIPITATION



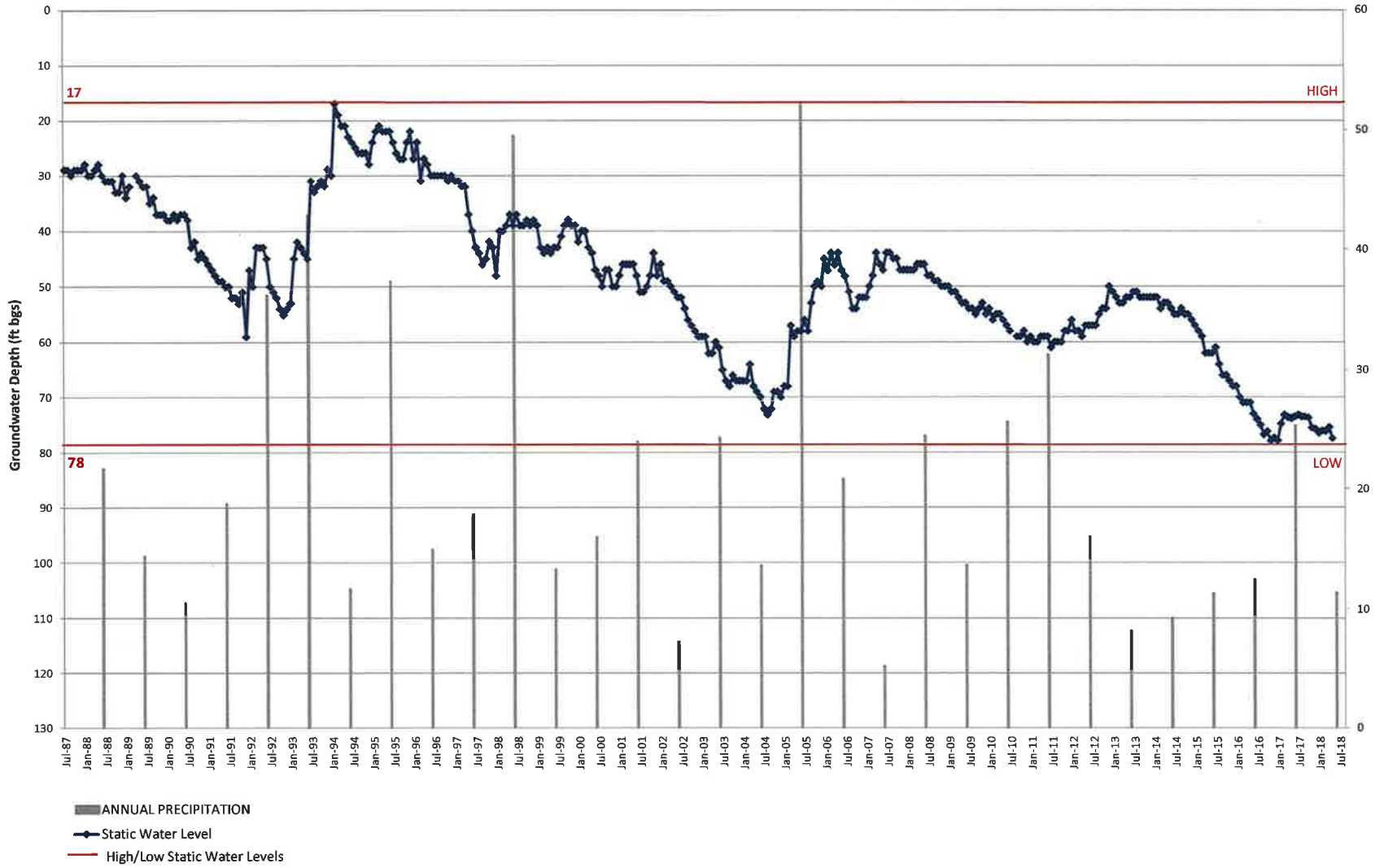
SCV WATER WELL C2
 STATIC WATER LEVEL VS PRECIPITATION



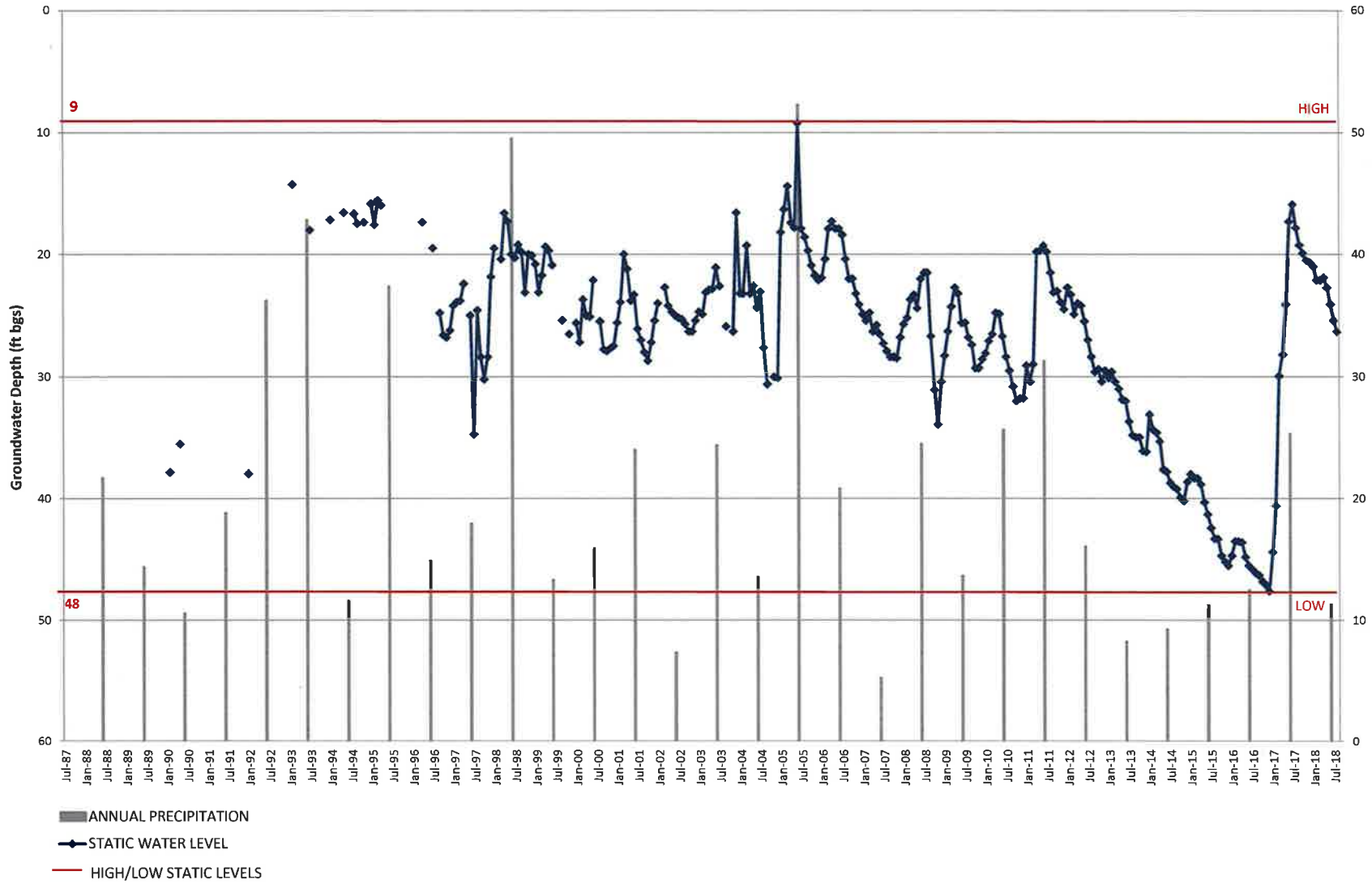
SCV WATER WELL C7 STATIC WATER LEVEL VS PRECIPITATION



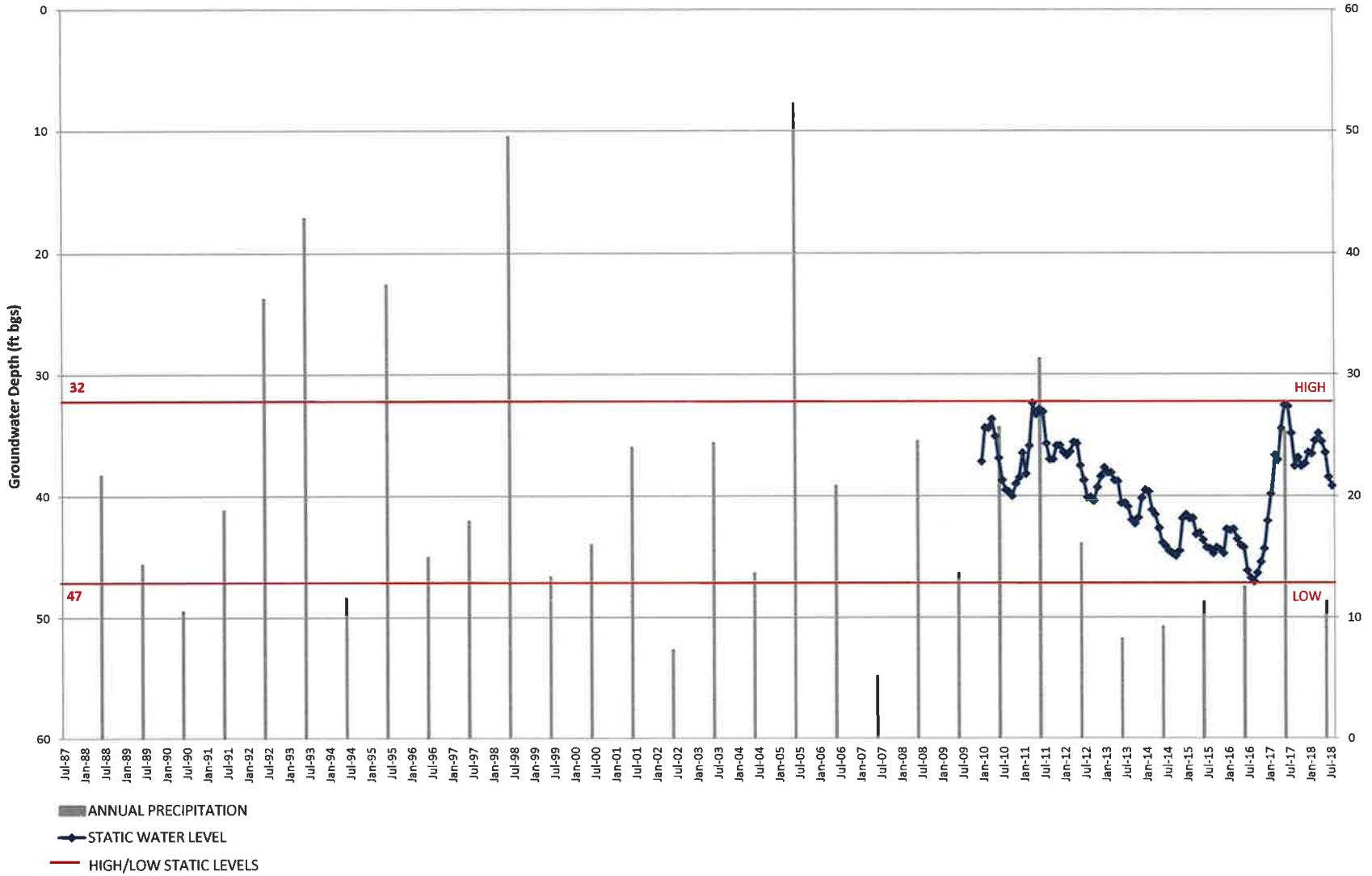
SCV WATER WELL CLARK #15
STATIC WATER LEVEL VS PRECIPITATION



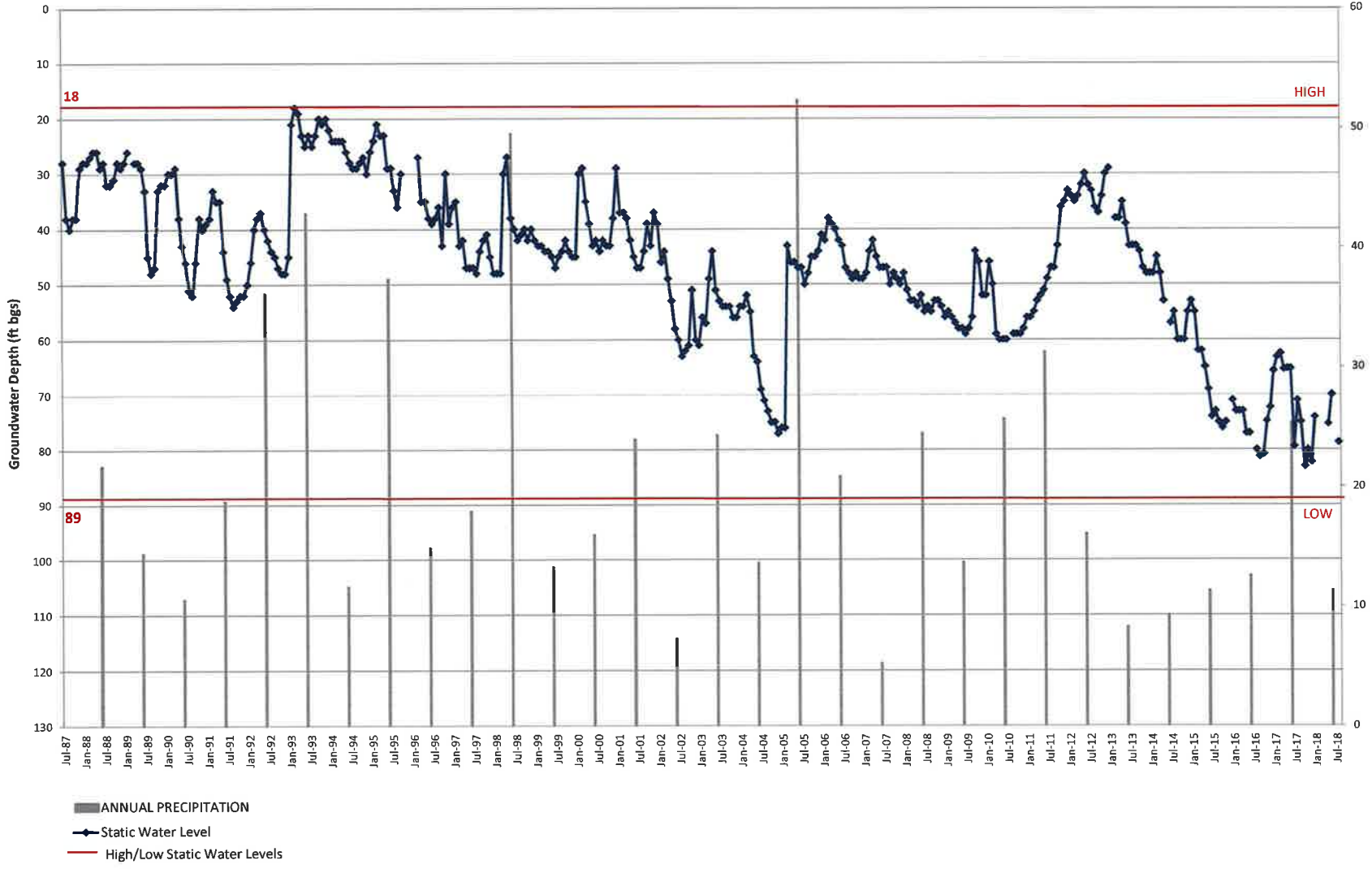
SCV WATER WELL D STATIC WATER LEVEL VS PRECIPITATION



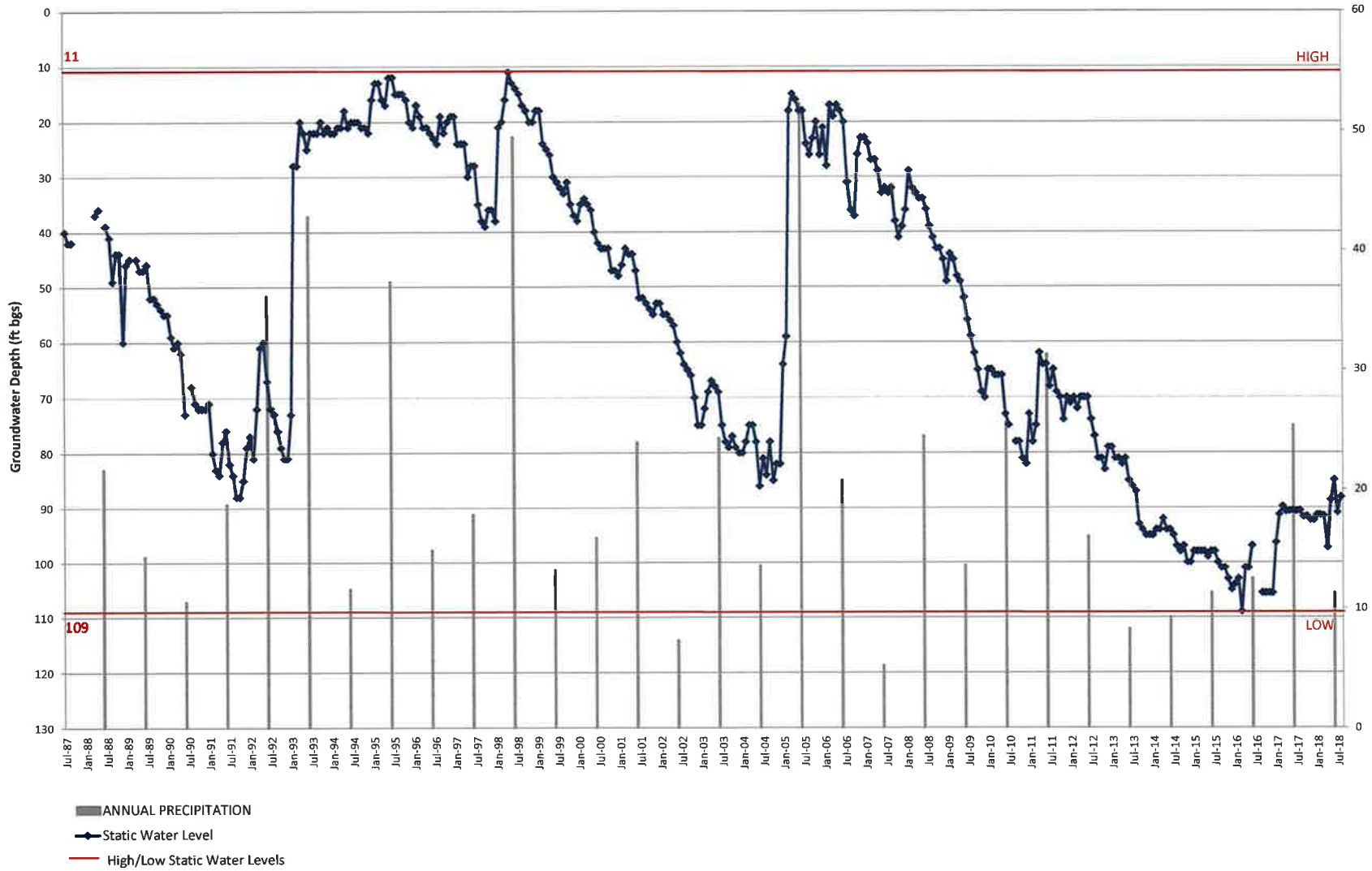
SCV WATER WELL E15 STATIC WATER LEVEL VS. PRECIPITATION



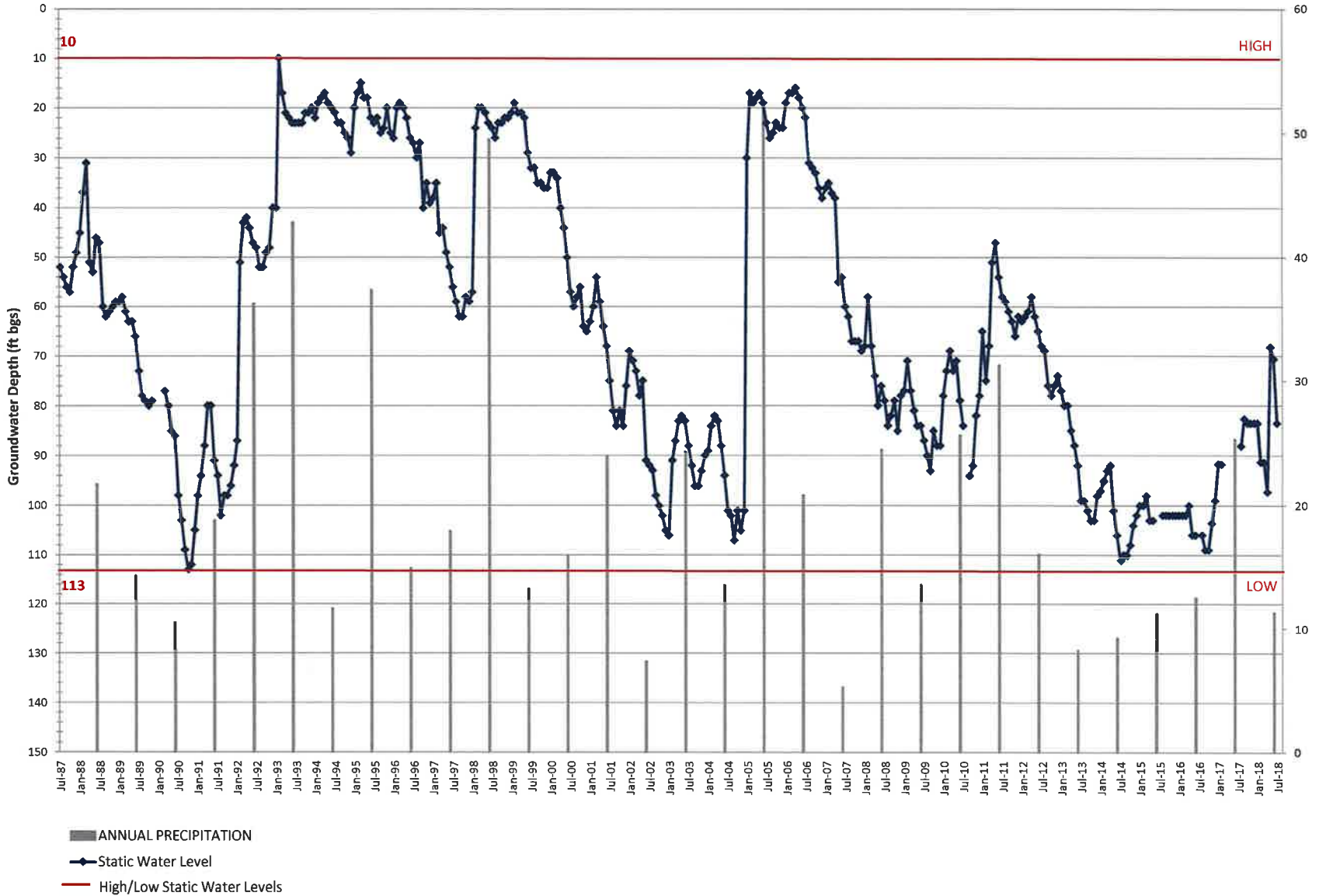
SCV WATER WELL GUIDA #14
STATIC WATER LEVEL VS PRECIPITATION



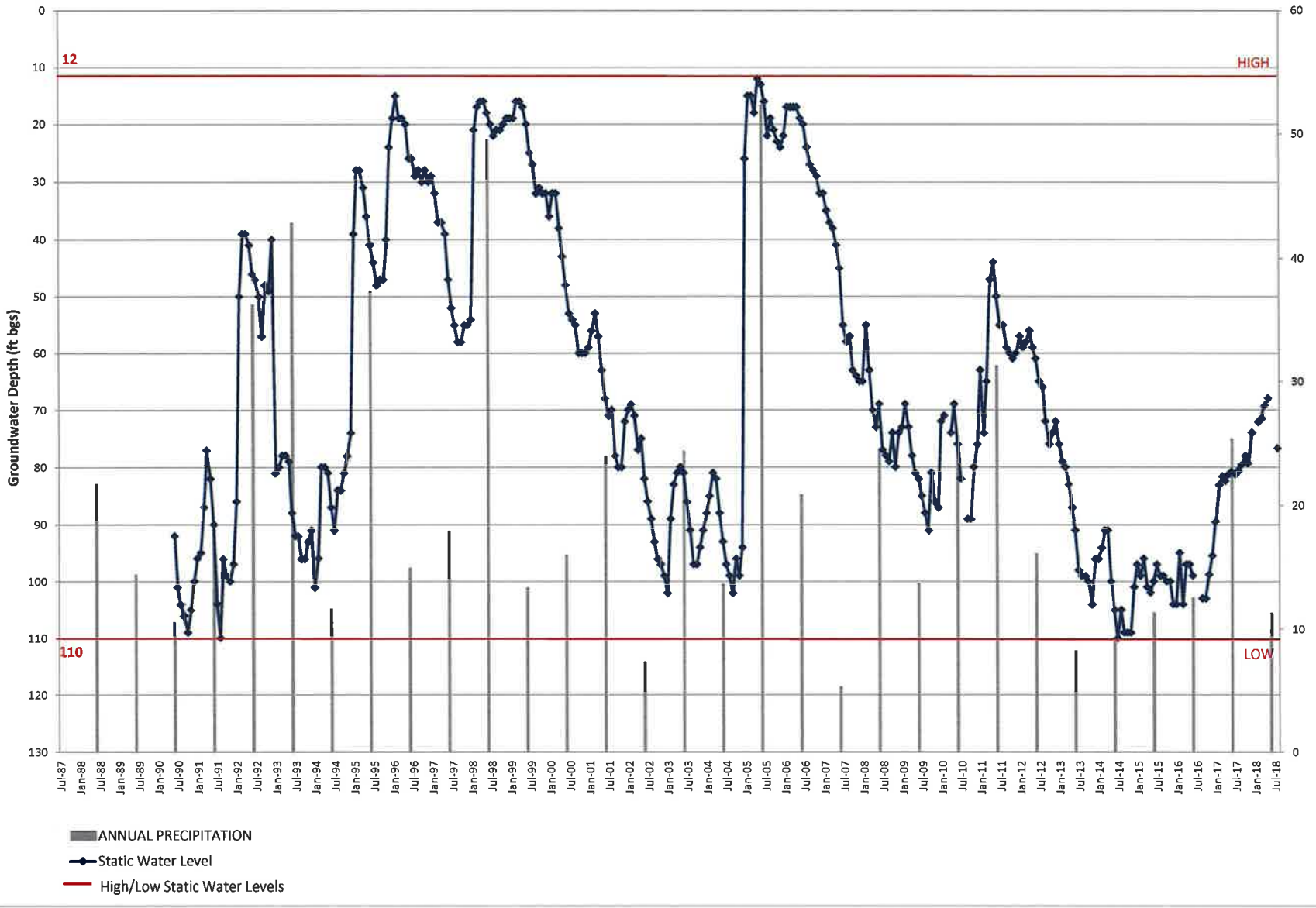
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 STATIC WATER LEVEL VS PRECIPITATION



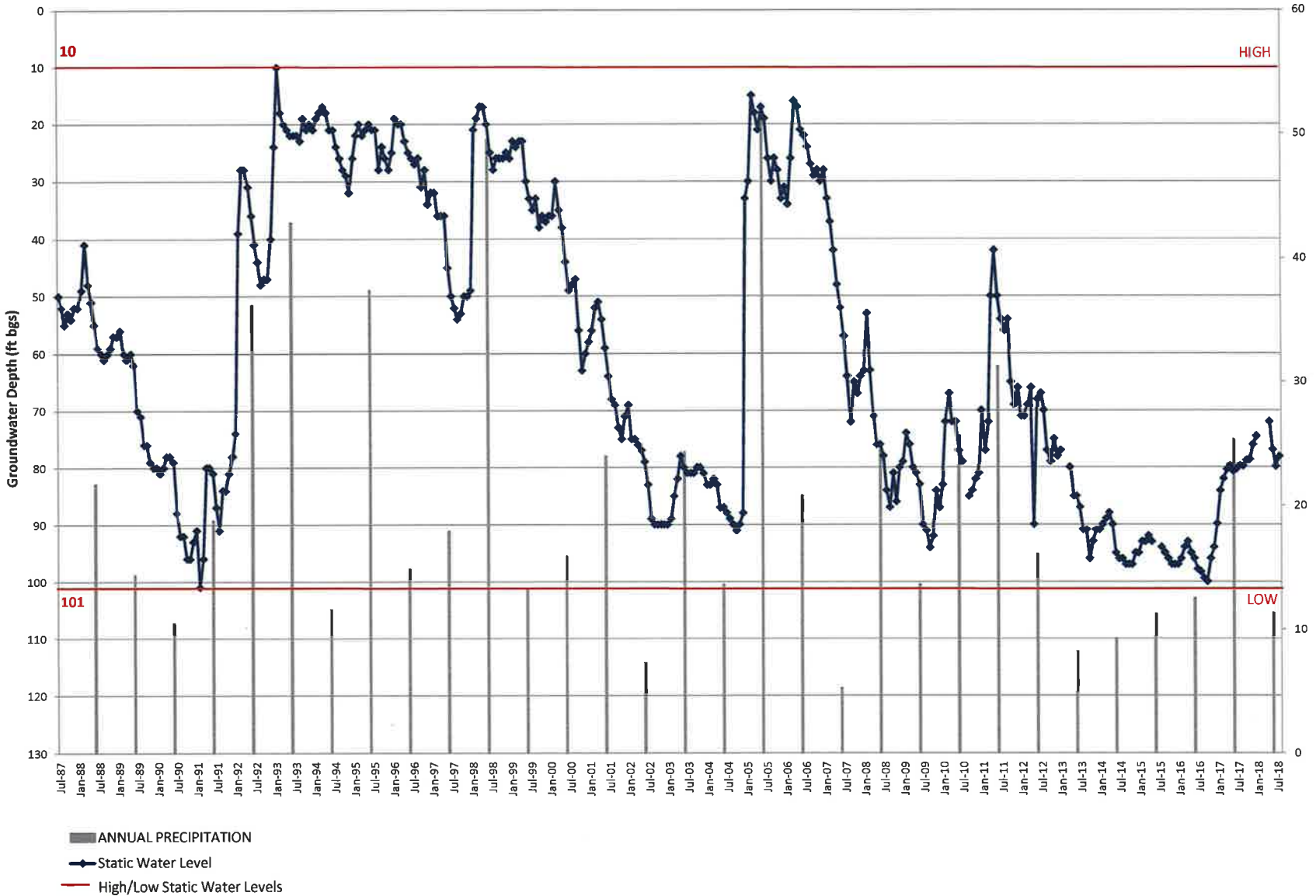
SCV WATER WELL LOST CANYON #2
 STATIC WATER LEVEL VS PRECIPITATION



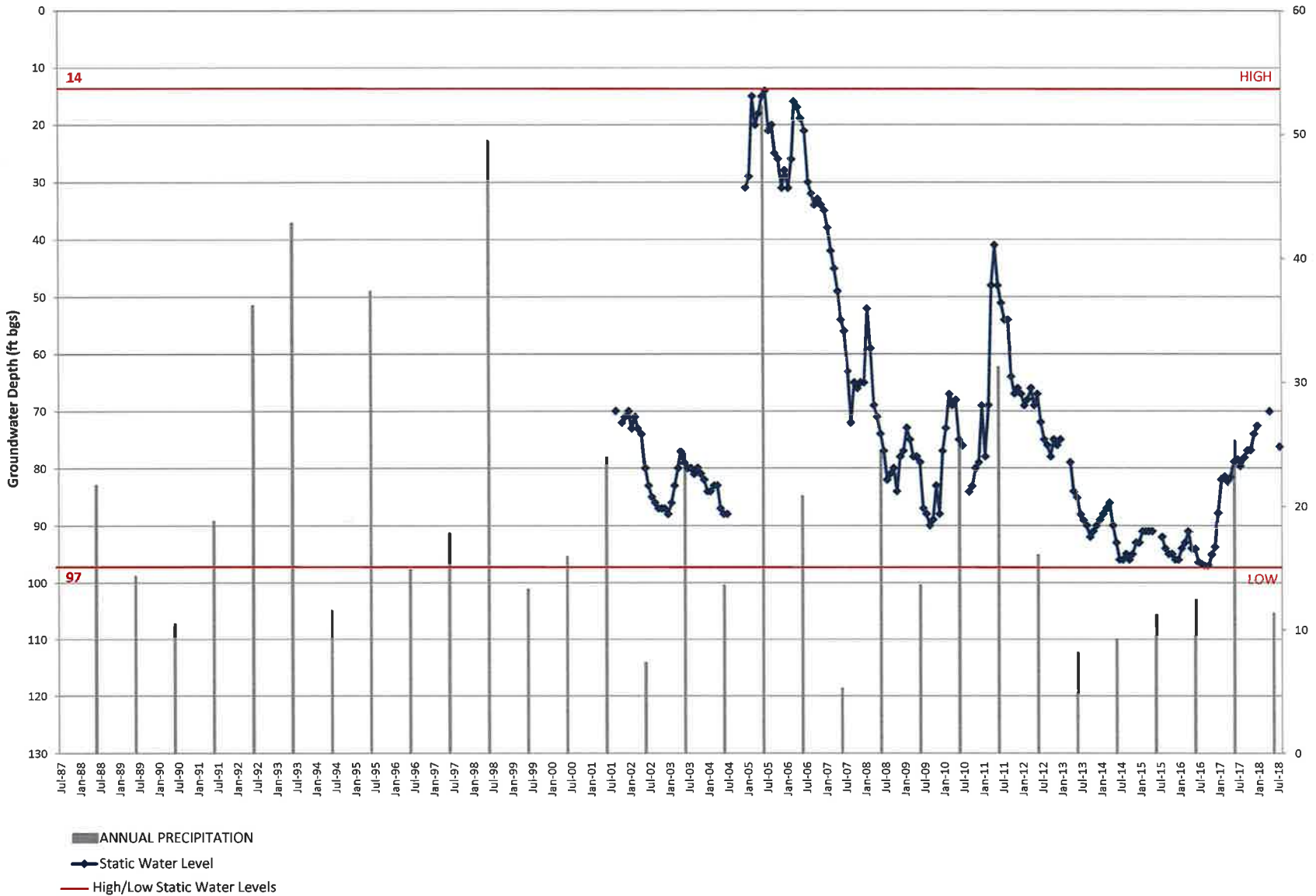
SCV WATER WELL LOST CANYON #2A
STATIC WATER LEVEL VS PRECIPITATION



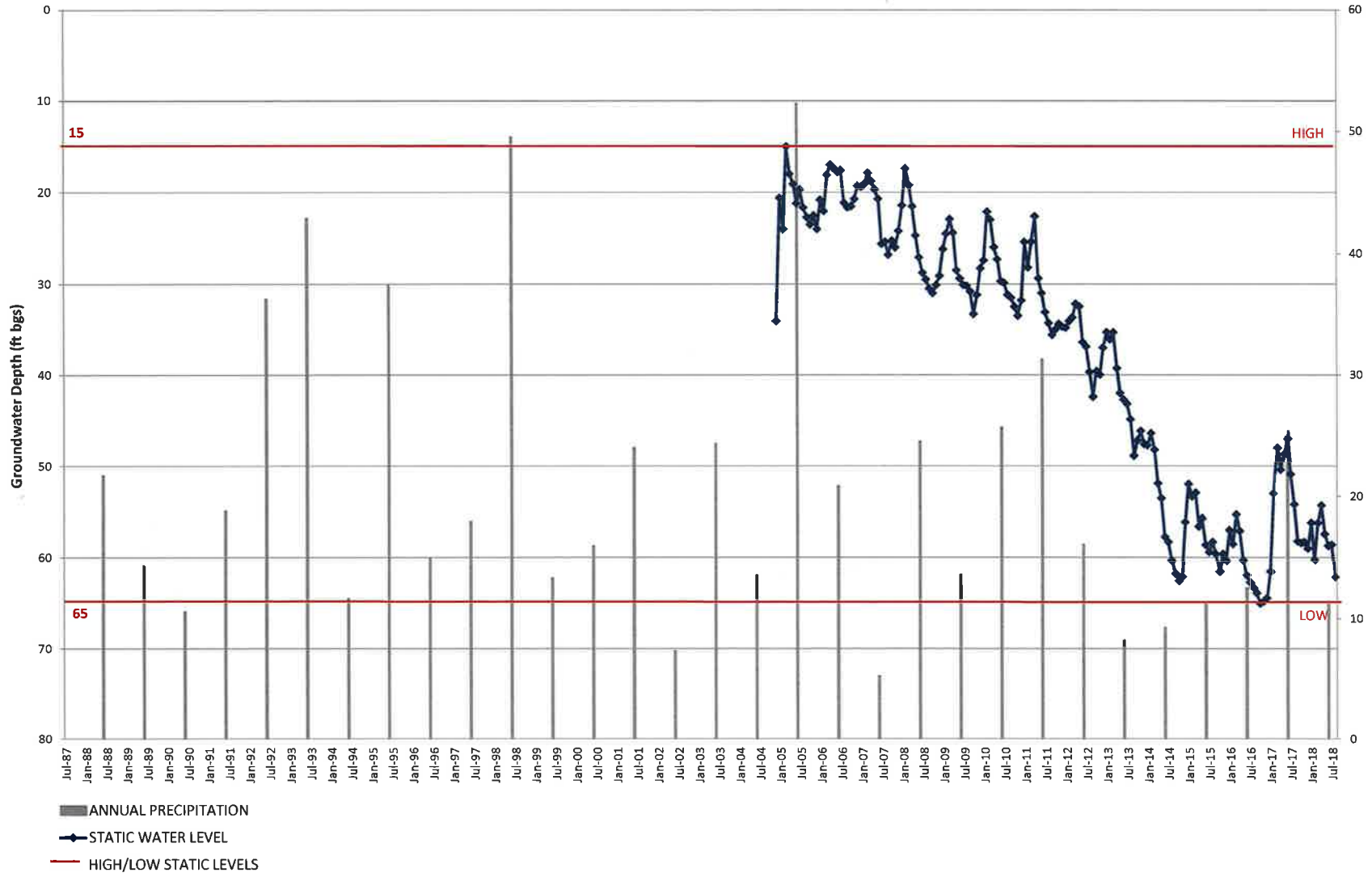
SCV WATER WELL MITCHELL #5A
 STATIC WATER LEVEL VS PRECIPITATION



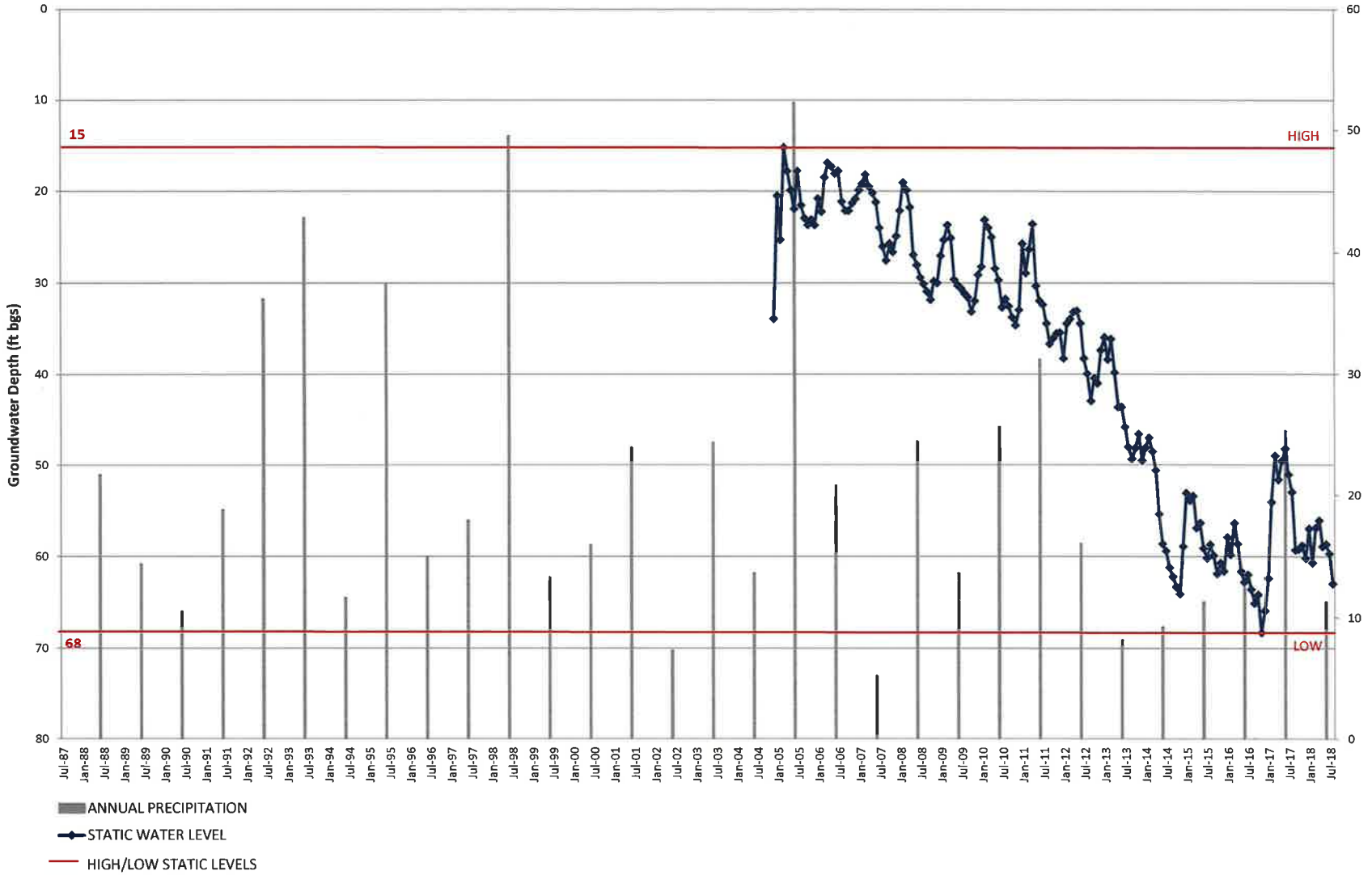
SCV WATER WELL MITCHELL #5B
 STATIC WATER LEVEL VS PRECIPITATION



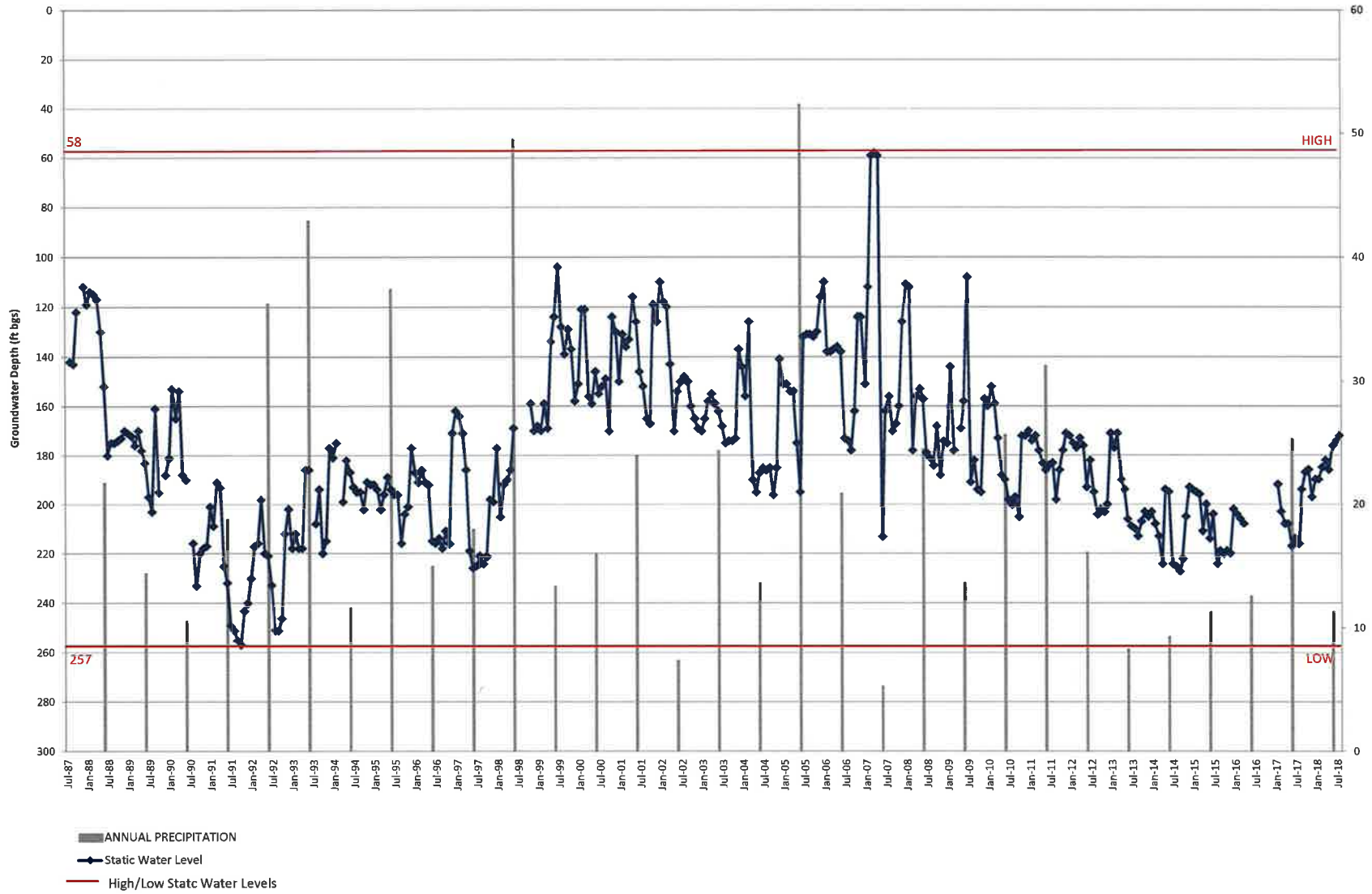
SCV WATER WELL N7 STATIC WATER LEVEL VS PRECIPITATION



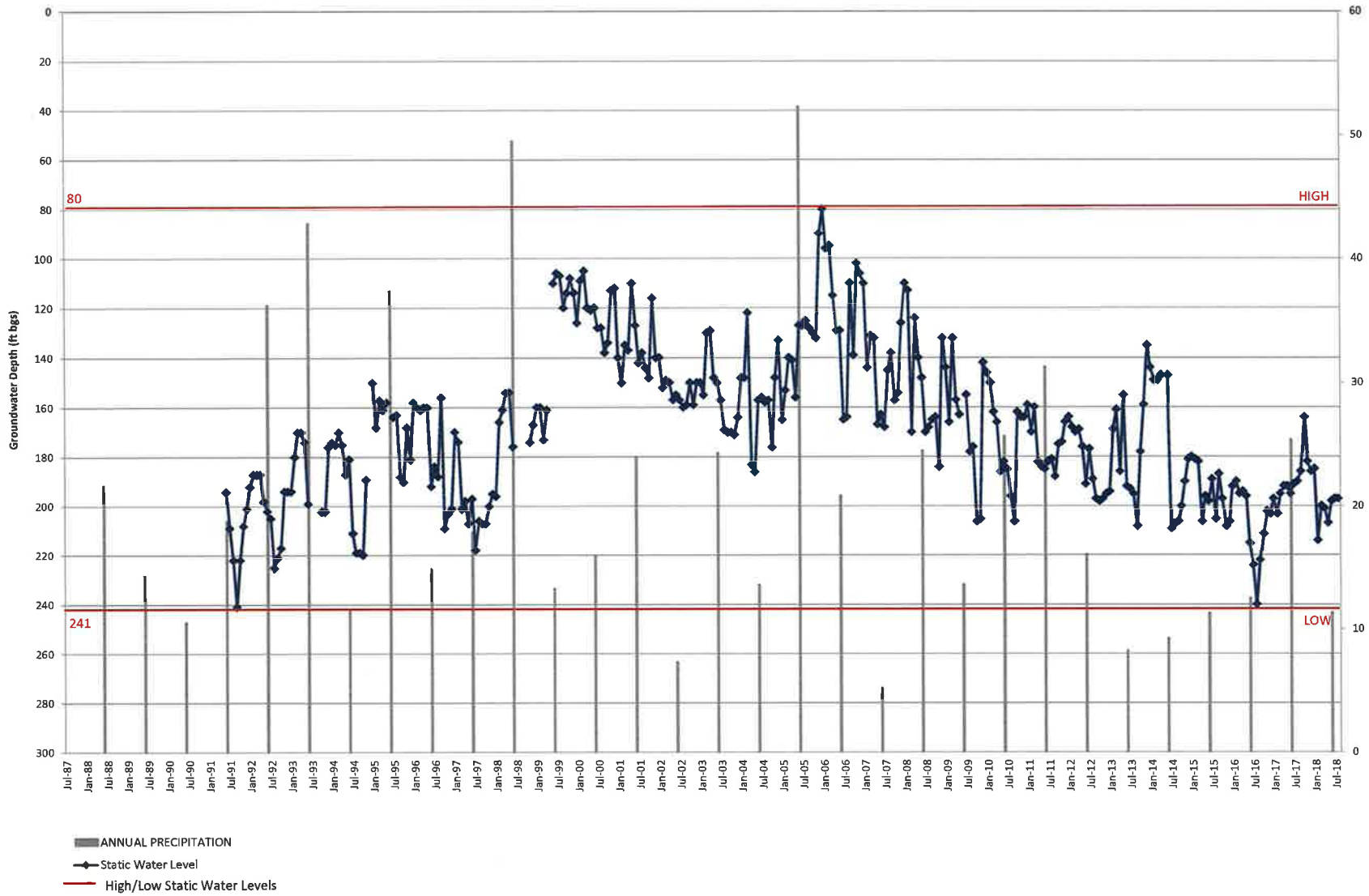
SCV WATER WELL N8
 STATIC WATER LEVEL VS PRECIPITATION



SCV WATER WELL N12 STATIC WATER LEVEL VS PRECIPITATION

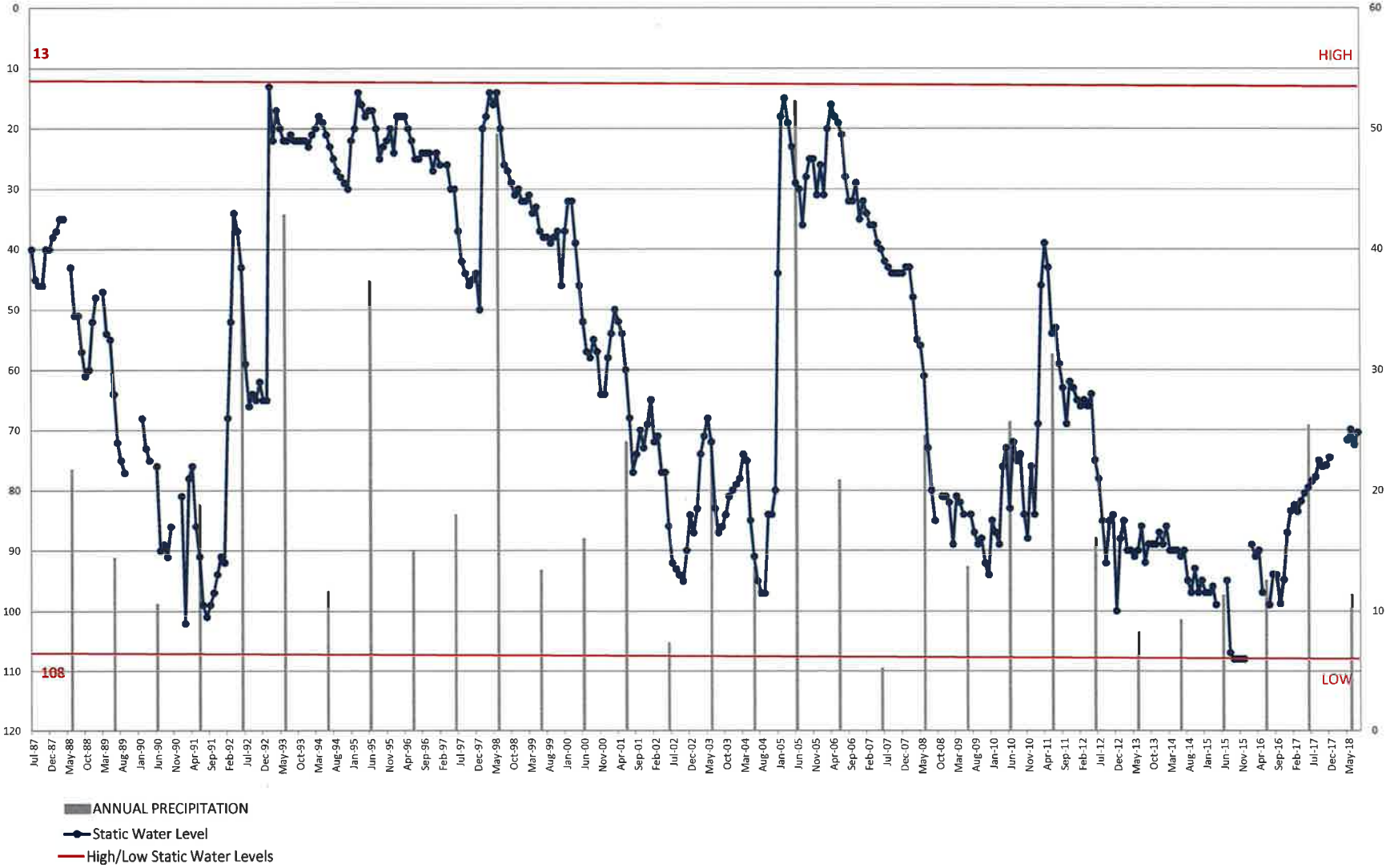


SCV WATER WELL N13 STATIC WATER LEVEL VS PRECIPITATION



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

40



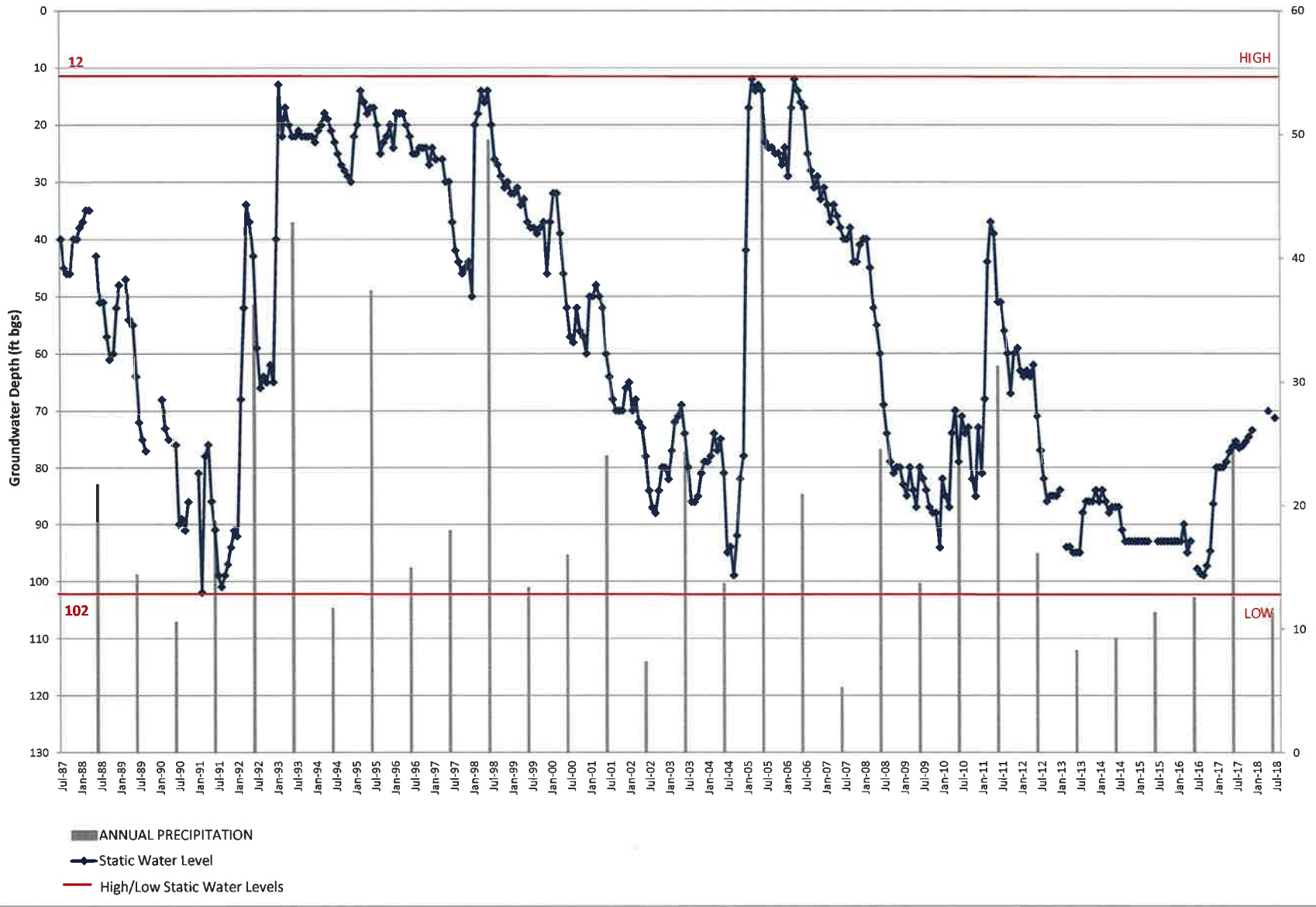
HIGH

13

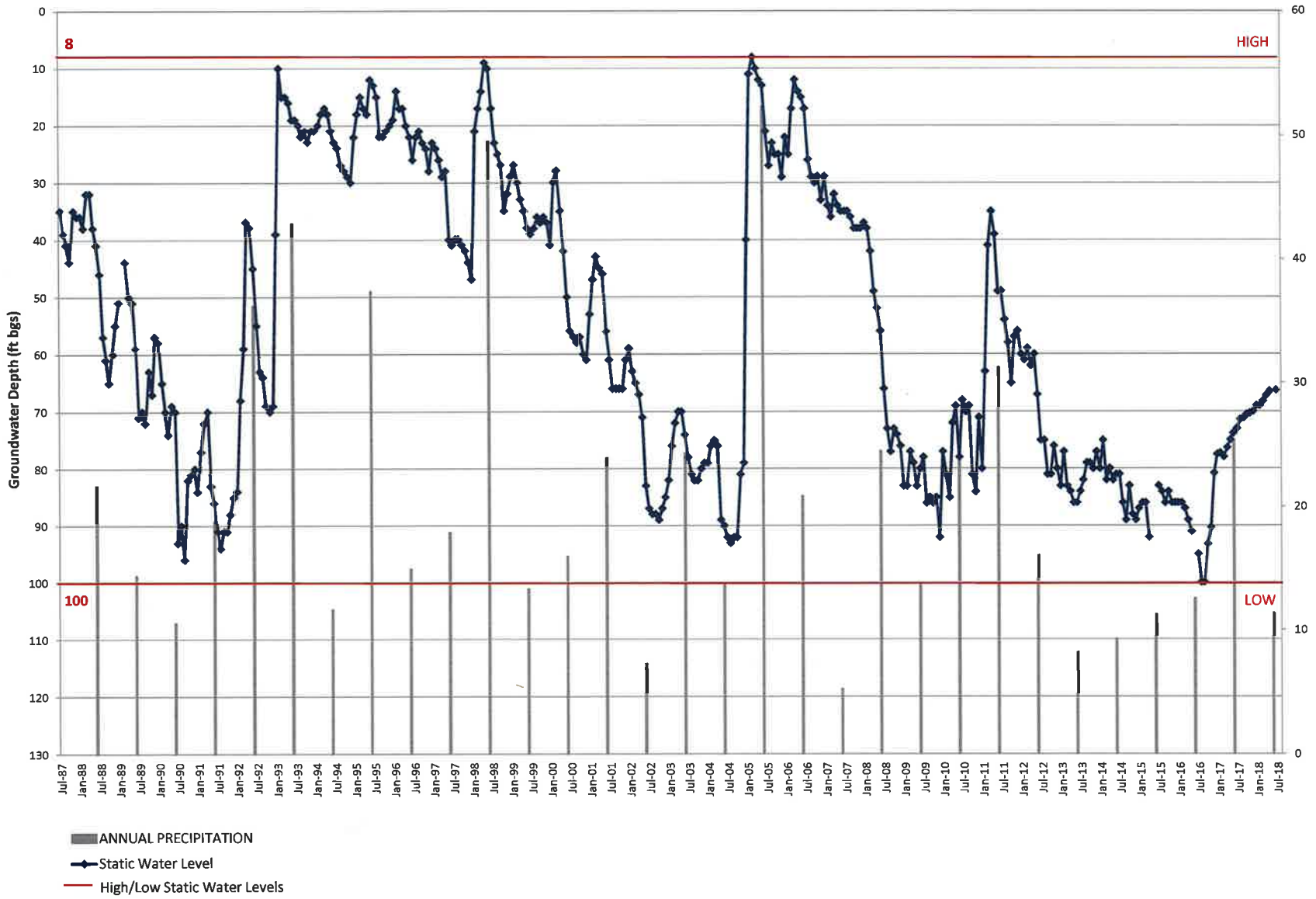
108

LOW

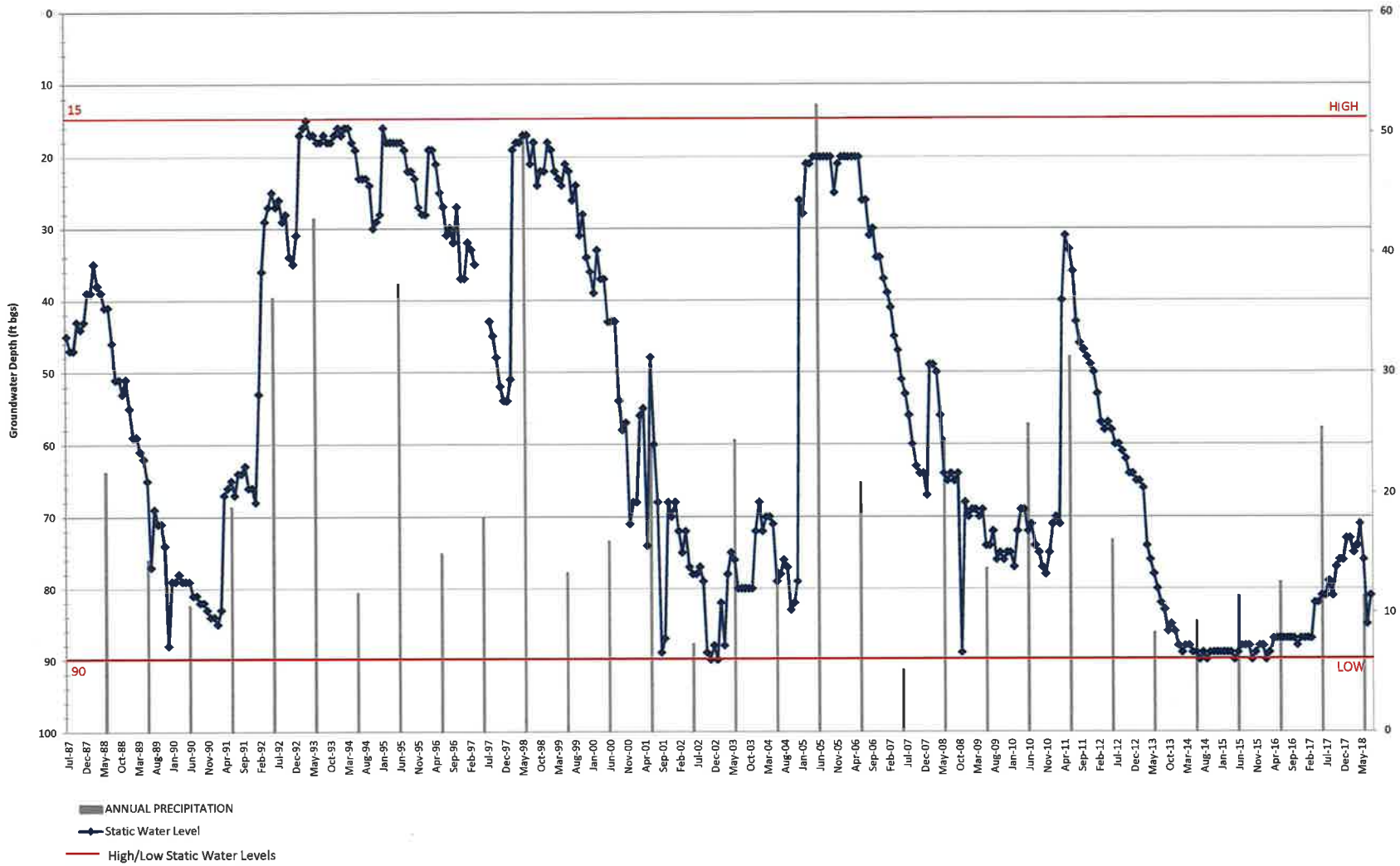
SCV WATER WELL NORTH OAKS EAST #7
 STATIC WATER LEVEL VS PRECIPITATION



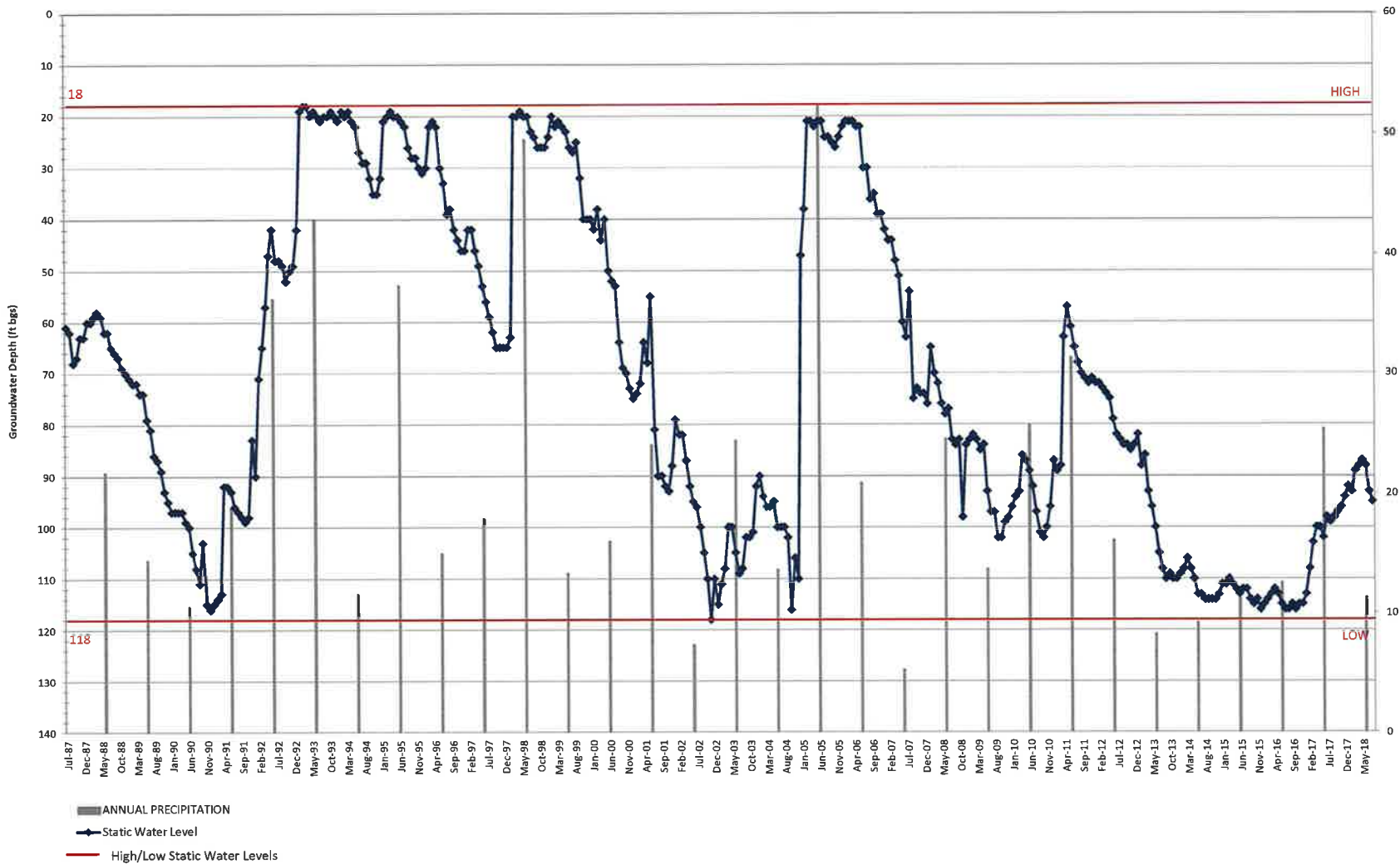
SCV WATER WELL NORTH OAKS WEST #9
 STATIC WATER LEVEL VS PRECIPITATION



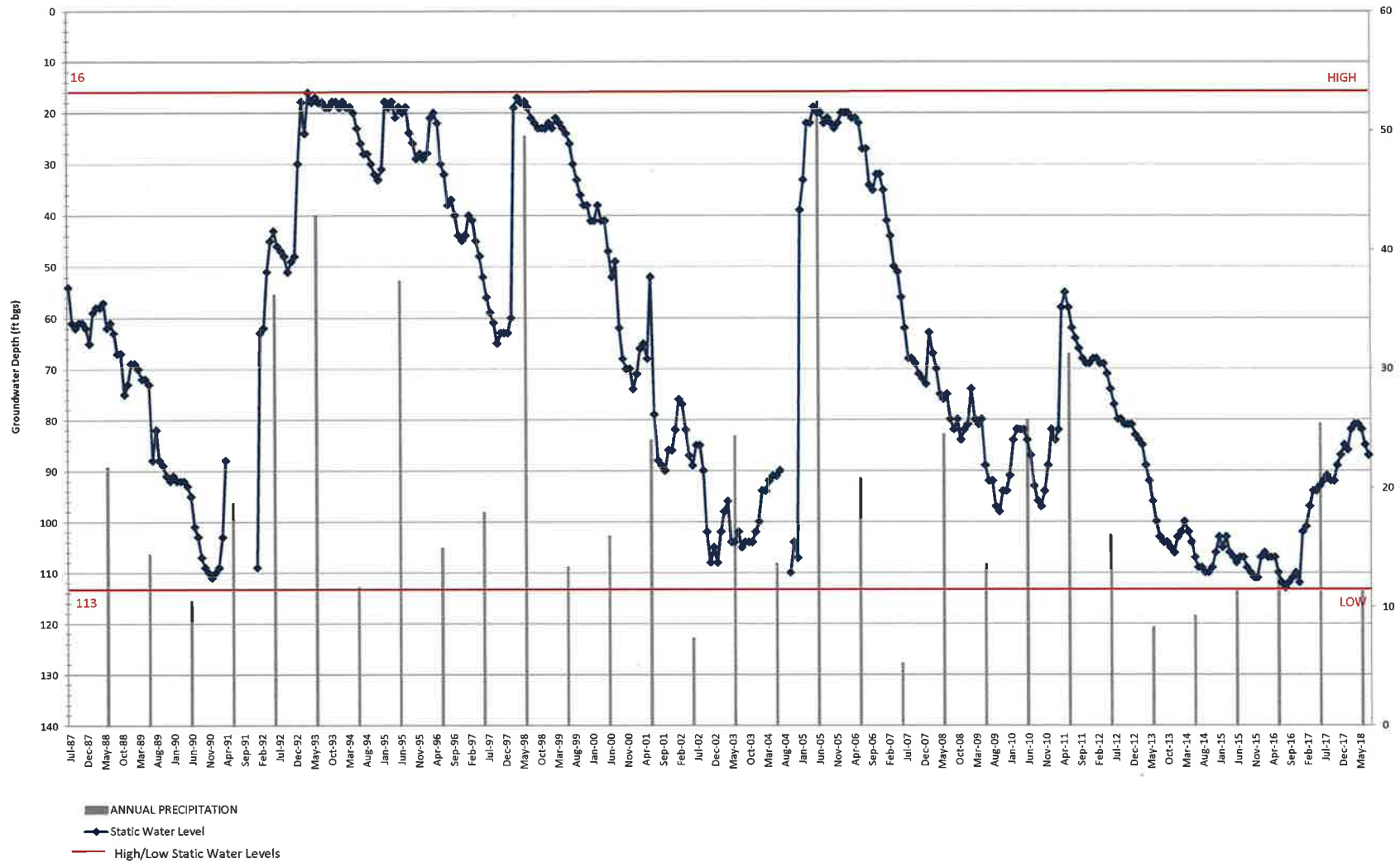
SCV WATER WELL P1 STATIC WATER LEVEL VS PRECIPITATION



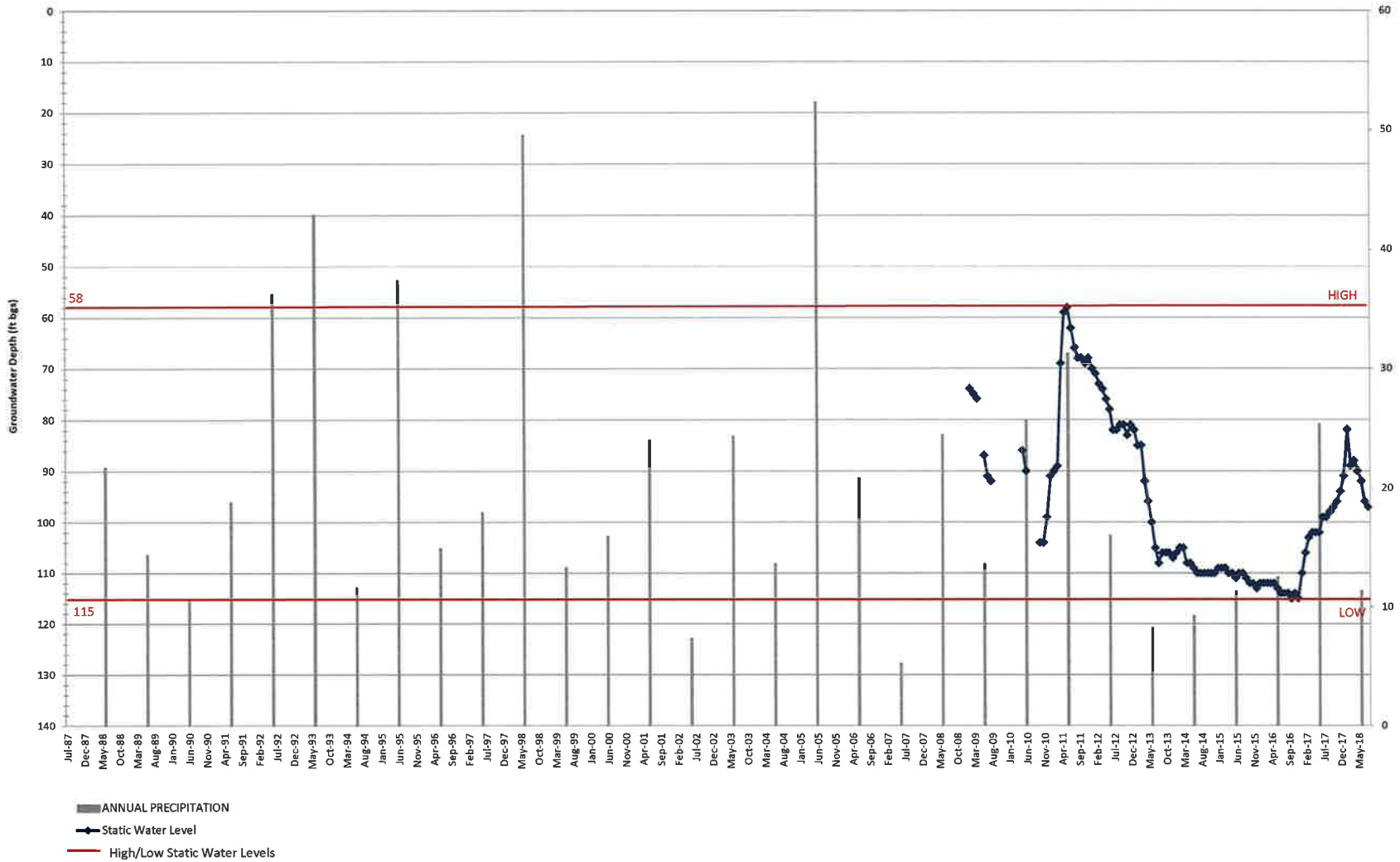
SCV WATER WELL P3
 STATIC WATER LEVEL VS PRECIPITATION



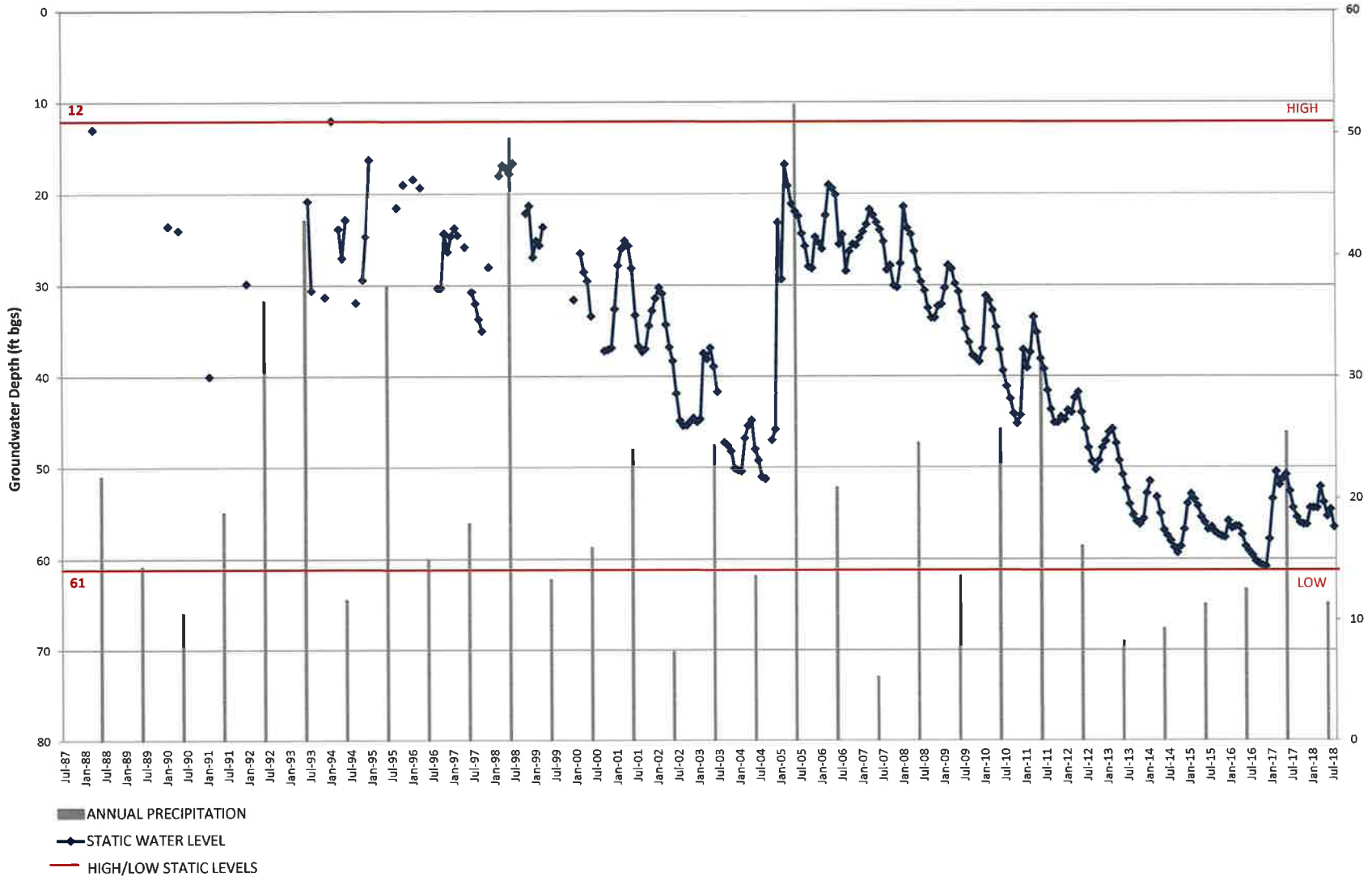
SCV WATER WELL P4 STATIC WATER LEVEL VS PRECIPITATION



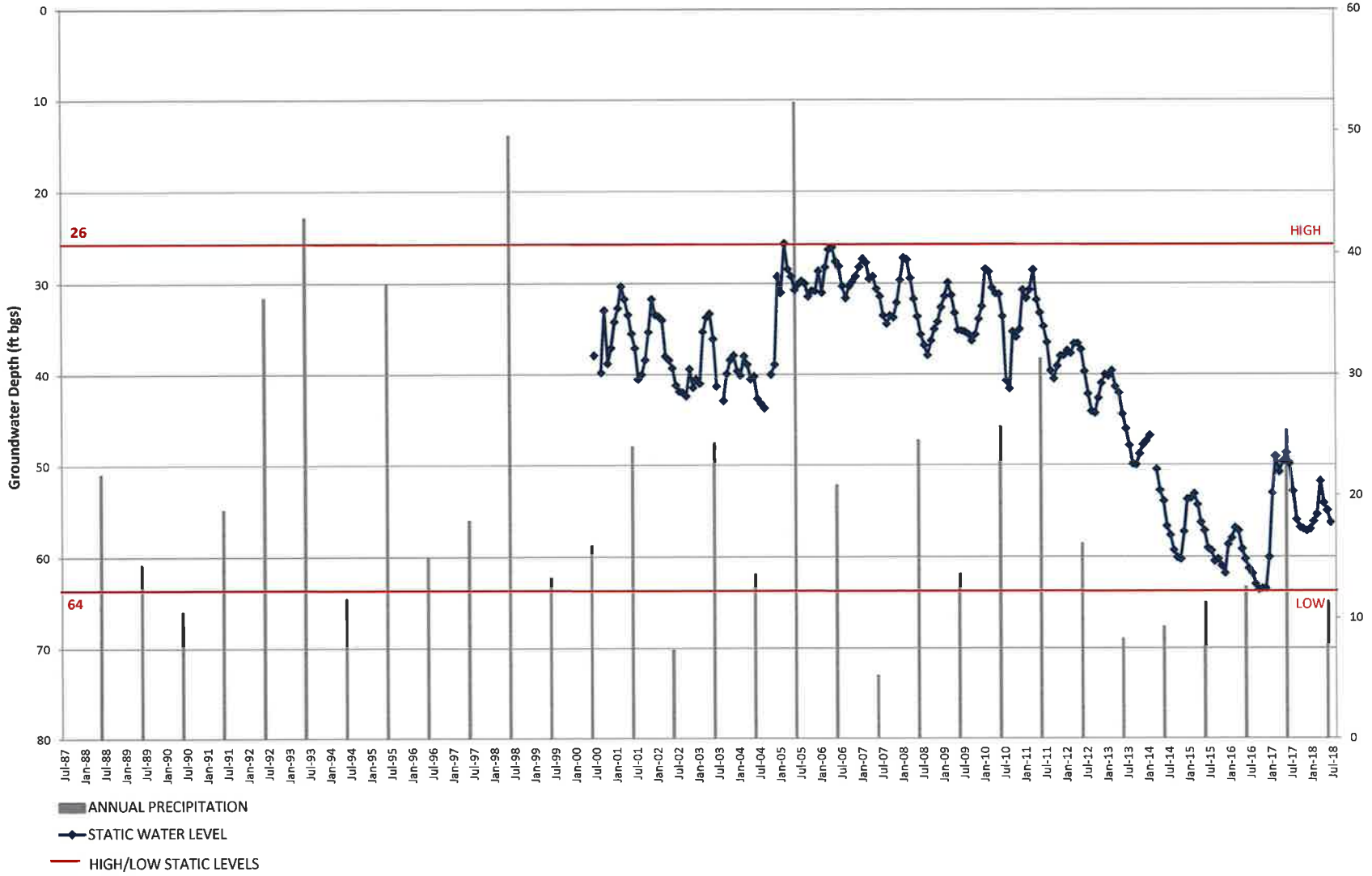
SCV WATER WELL P5 STATIC WATER LEVEL VS PRECIPITATION



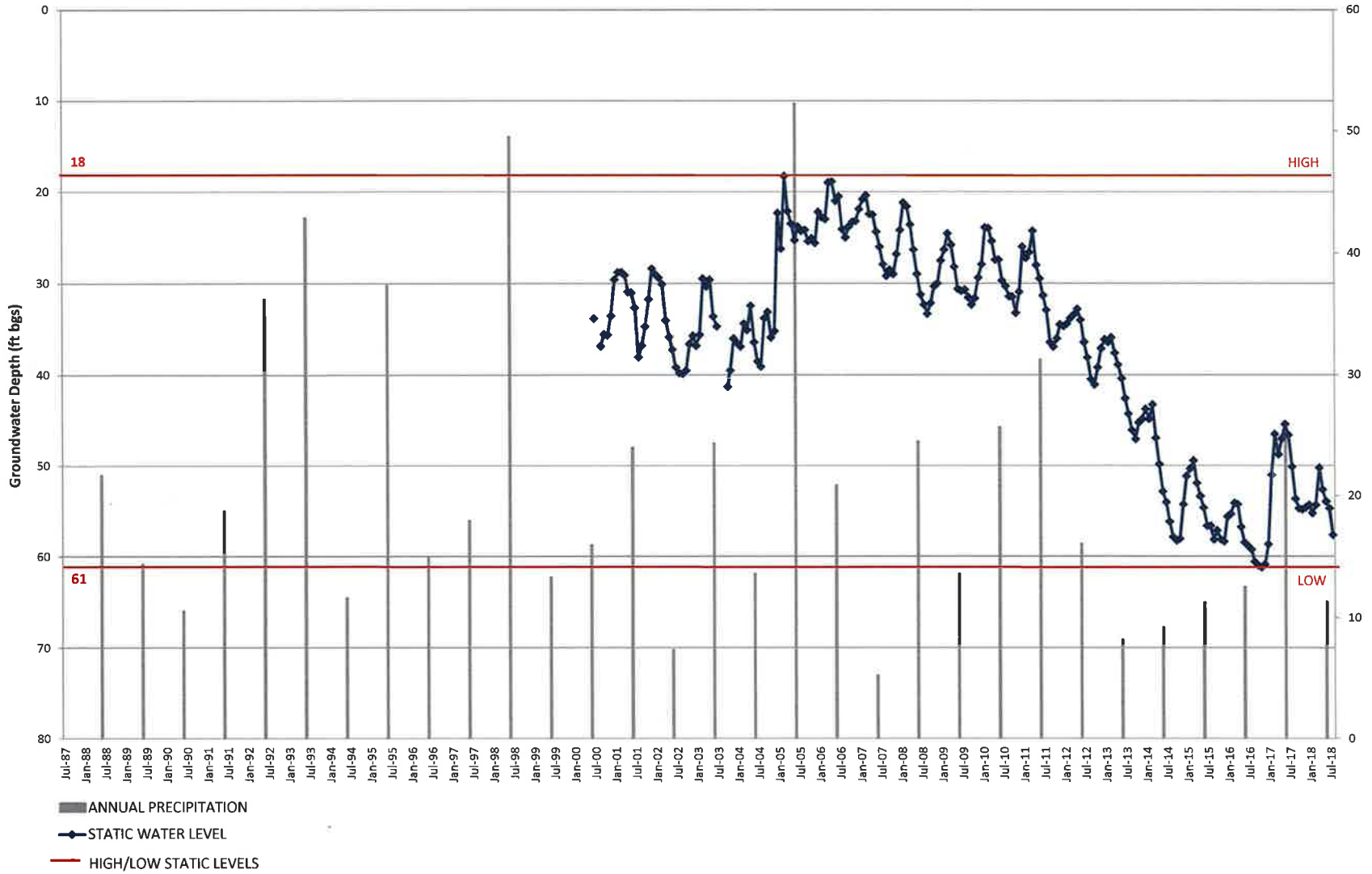
SCV WATER WELL Q2
 STATIC WATER LEVEL VS PRECIPITATION



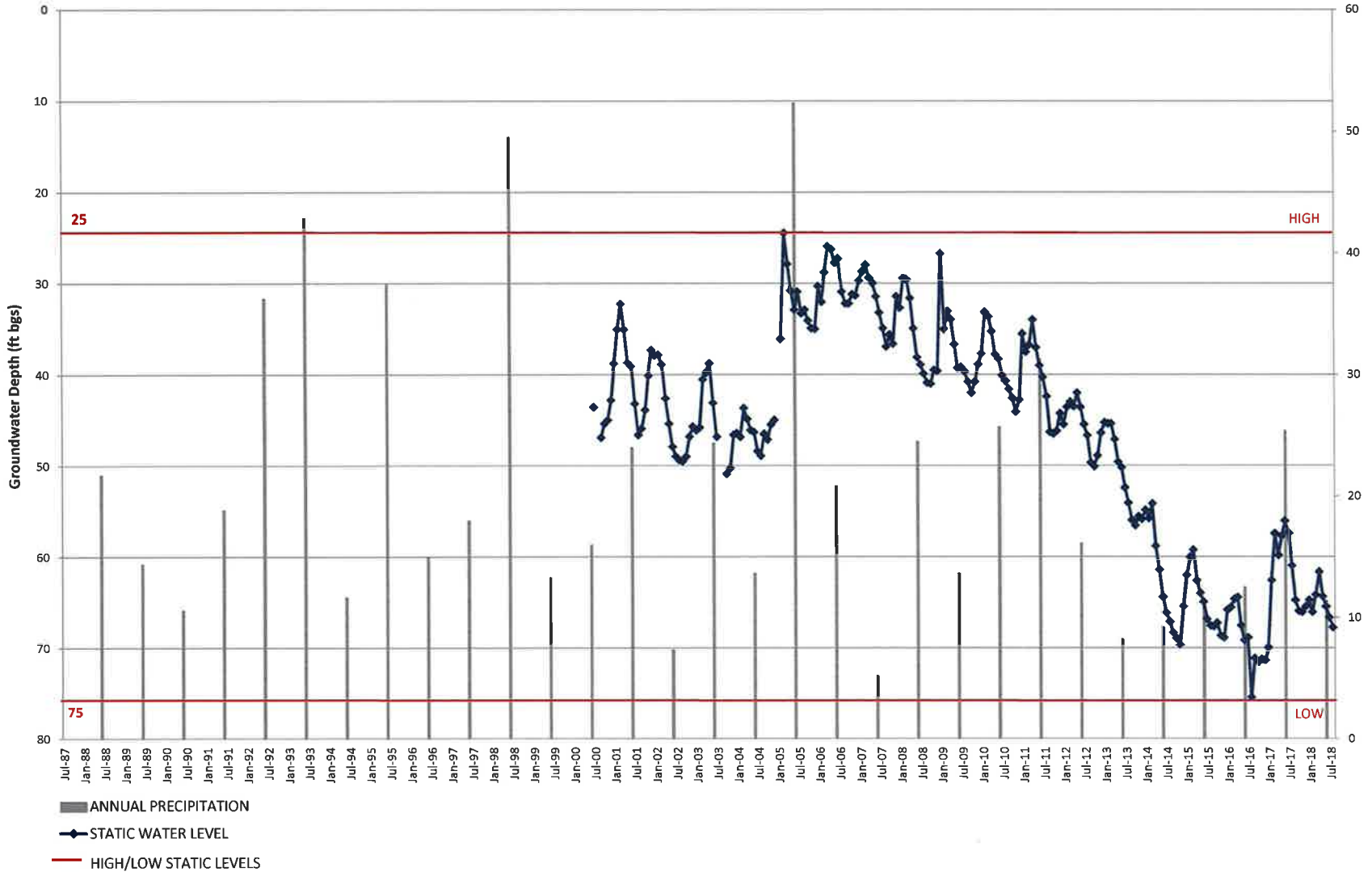
SCV WATER WELL S6
 STATIC WATER LEVEL VS PRECIPITATION



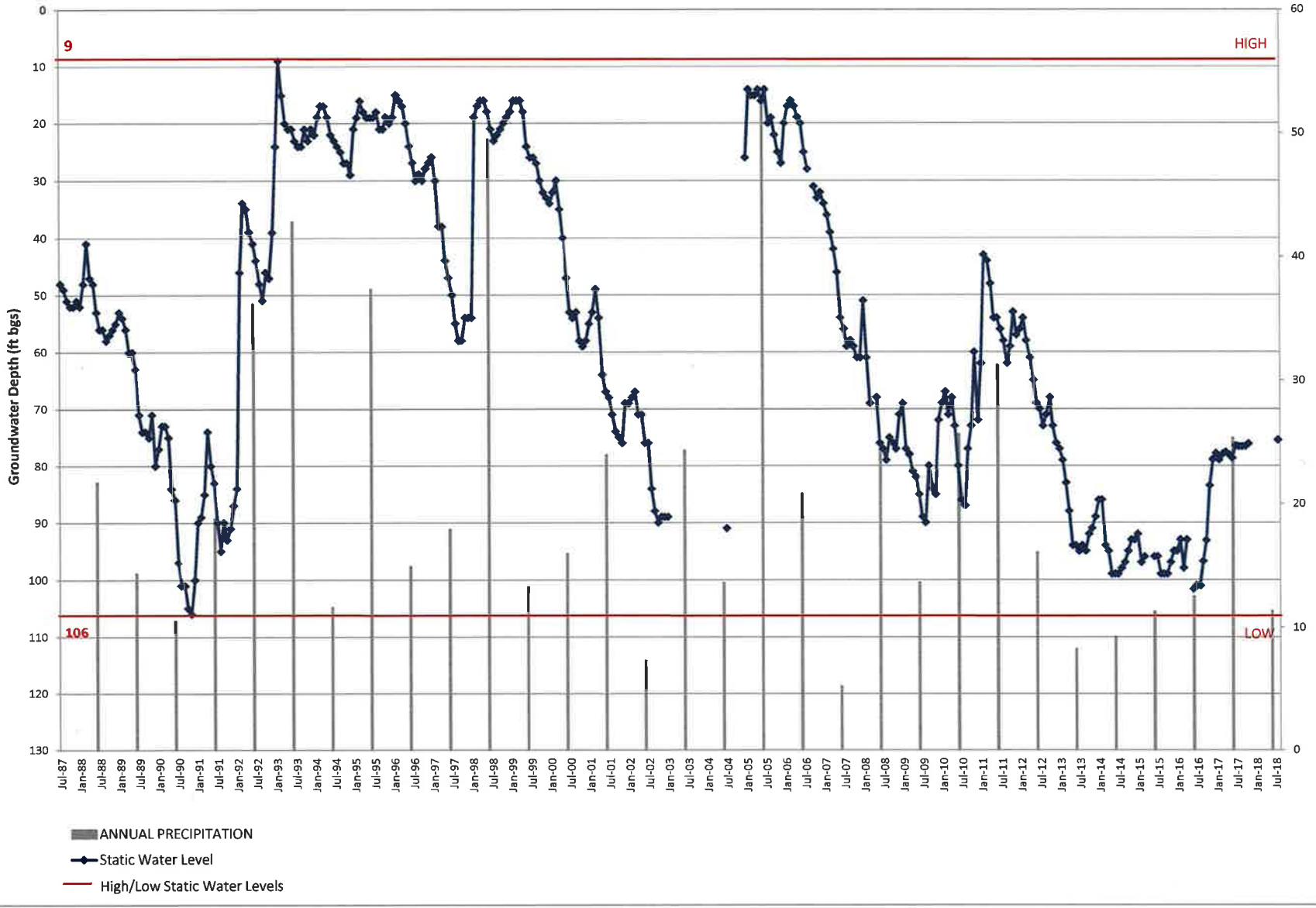
SCV WATER WELL S7
 STATIC WATER LEVEL VS PRECIPITATION



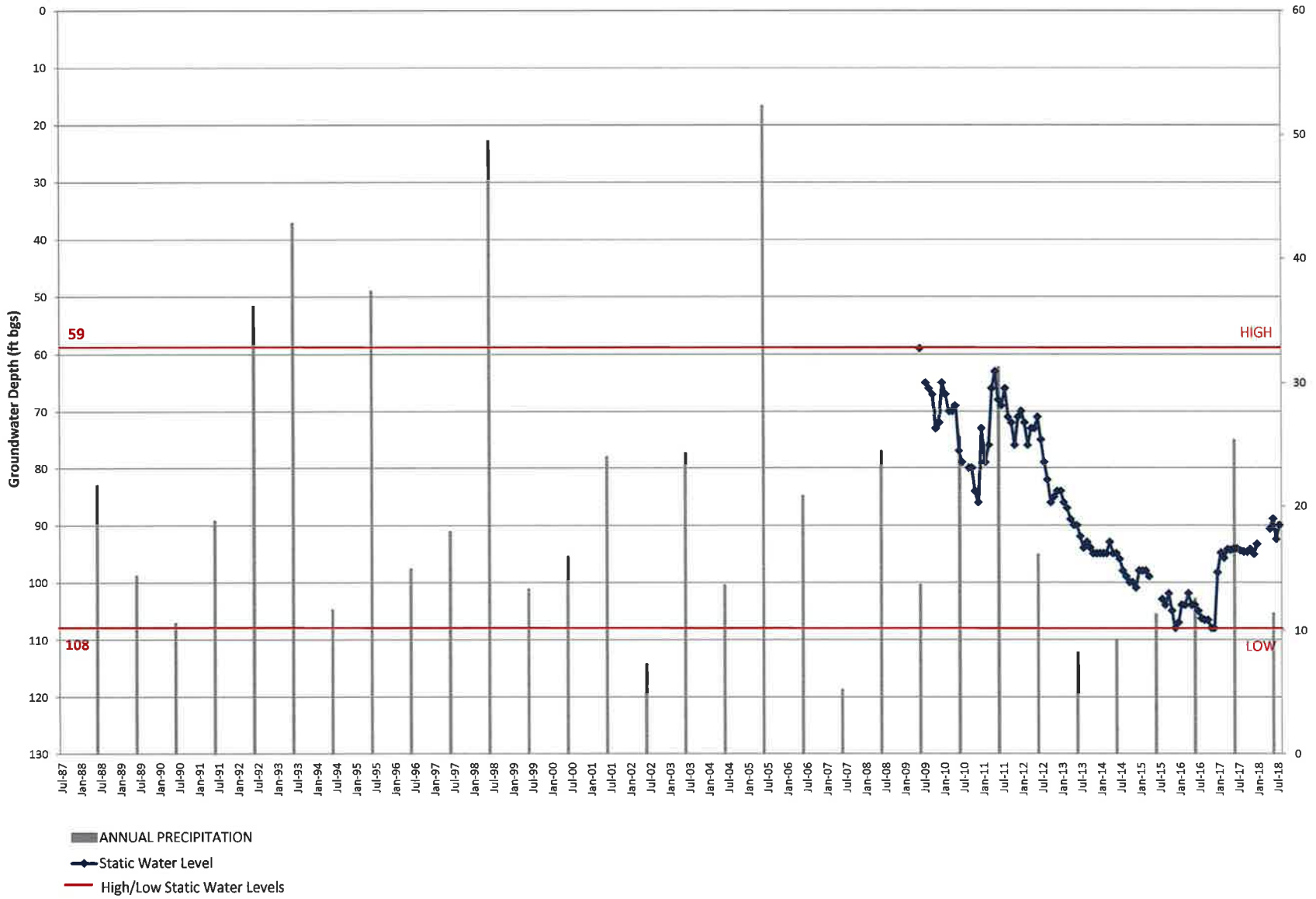
SCV WATER WELL S8 STATIC WATER LEVEL VS PRECIPITATION



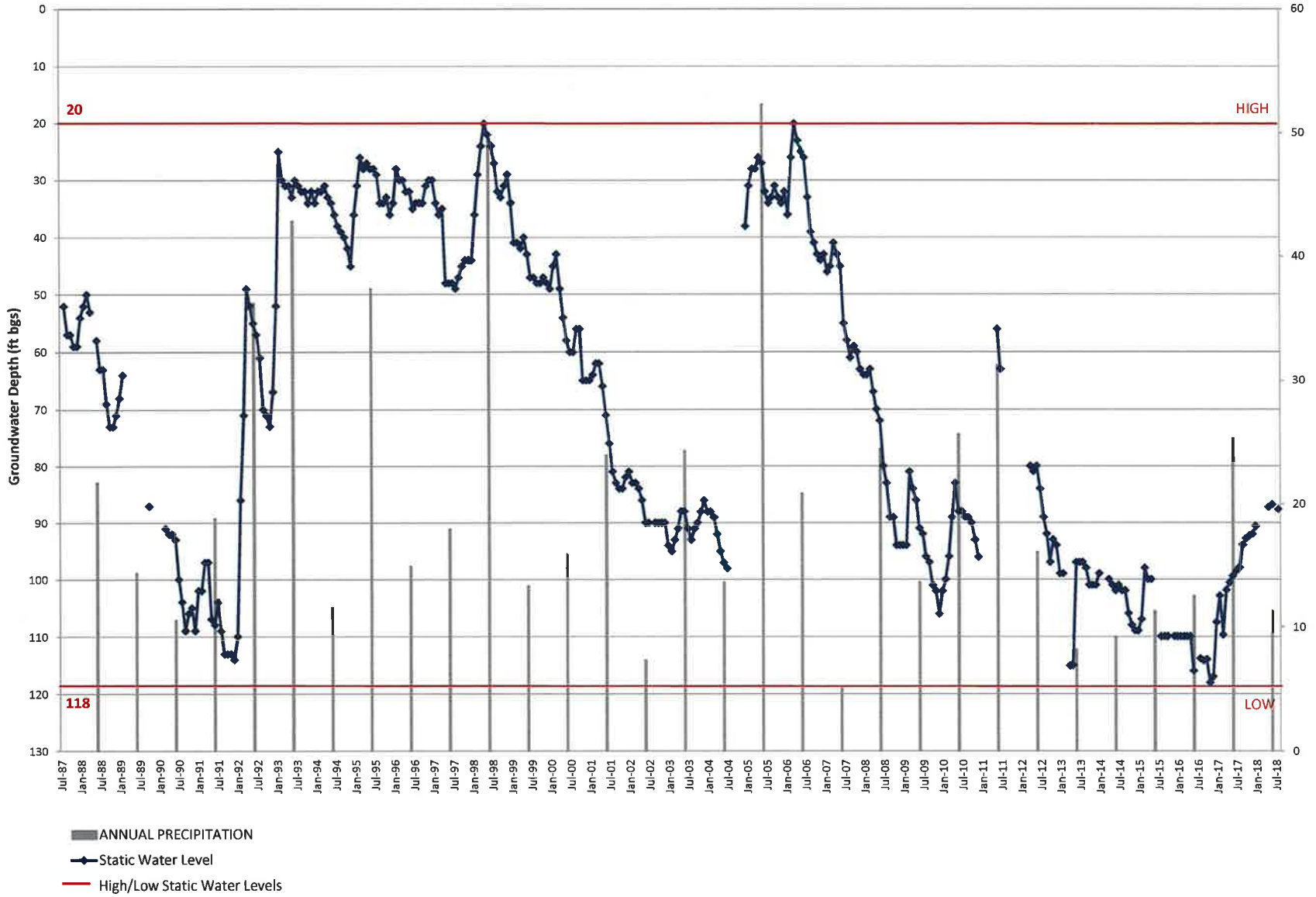
SCV WATER WELL SAND CANYON #3
 STATIC WATER LEVEL VS PRECIPITATION



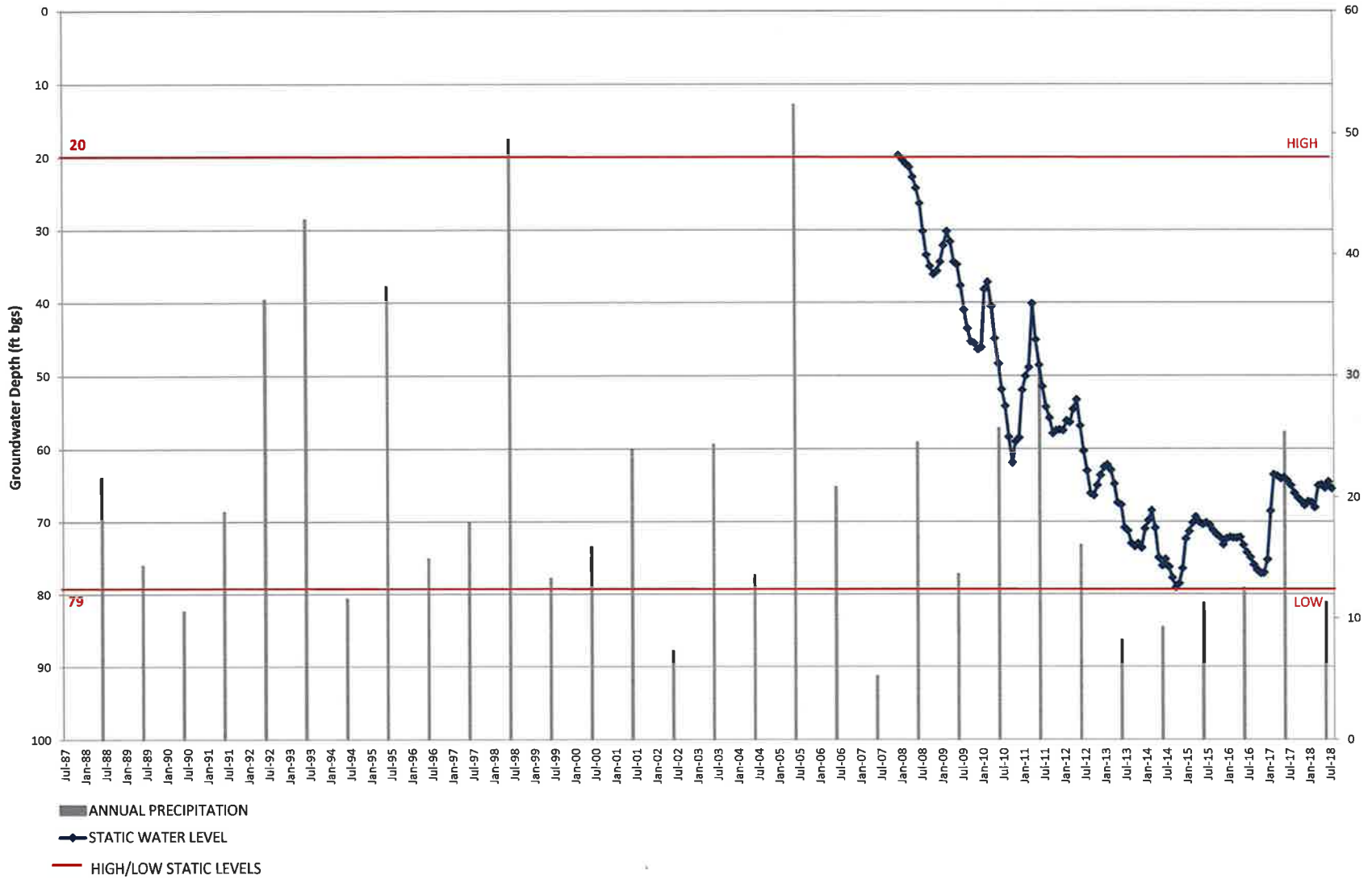
SCV WATER WELL SANTA CLARA
STATIC WATER LEVEL VS PRECIPITATION



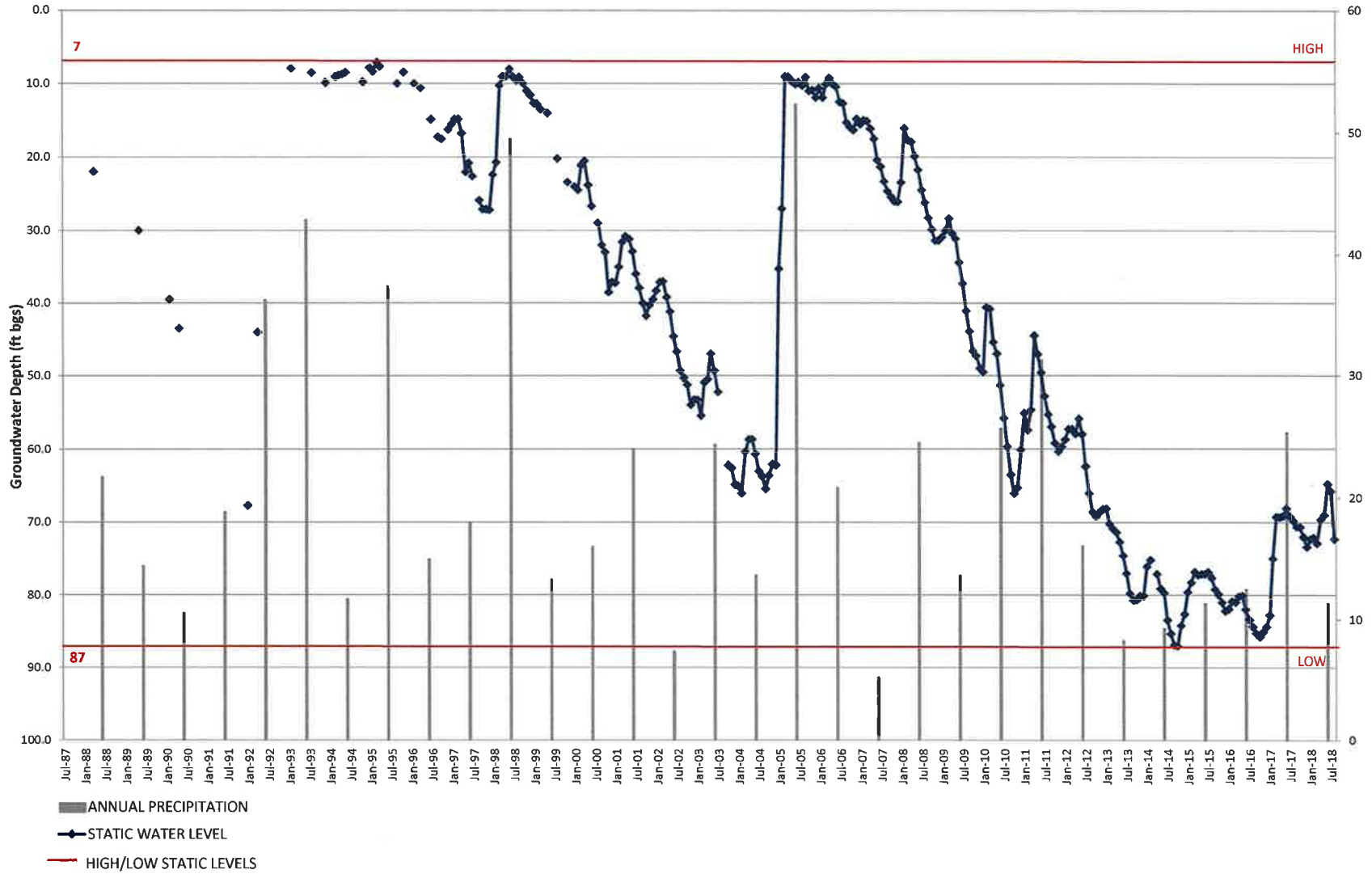
SCV WATER WELL SIERRA #6 STATIC WATER LEVEL VS PRECIPITATION



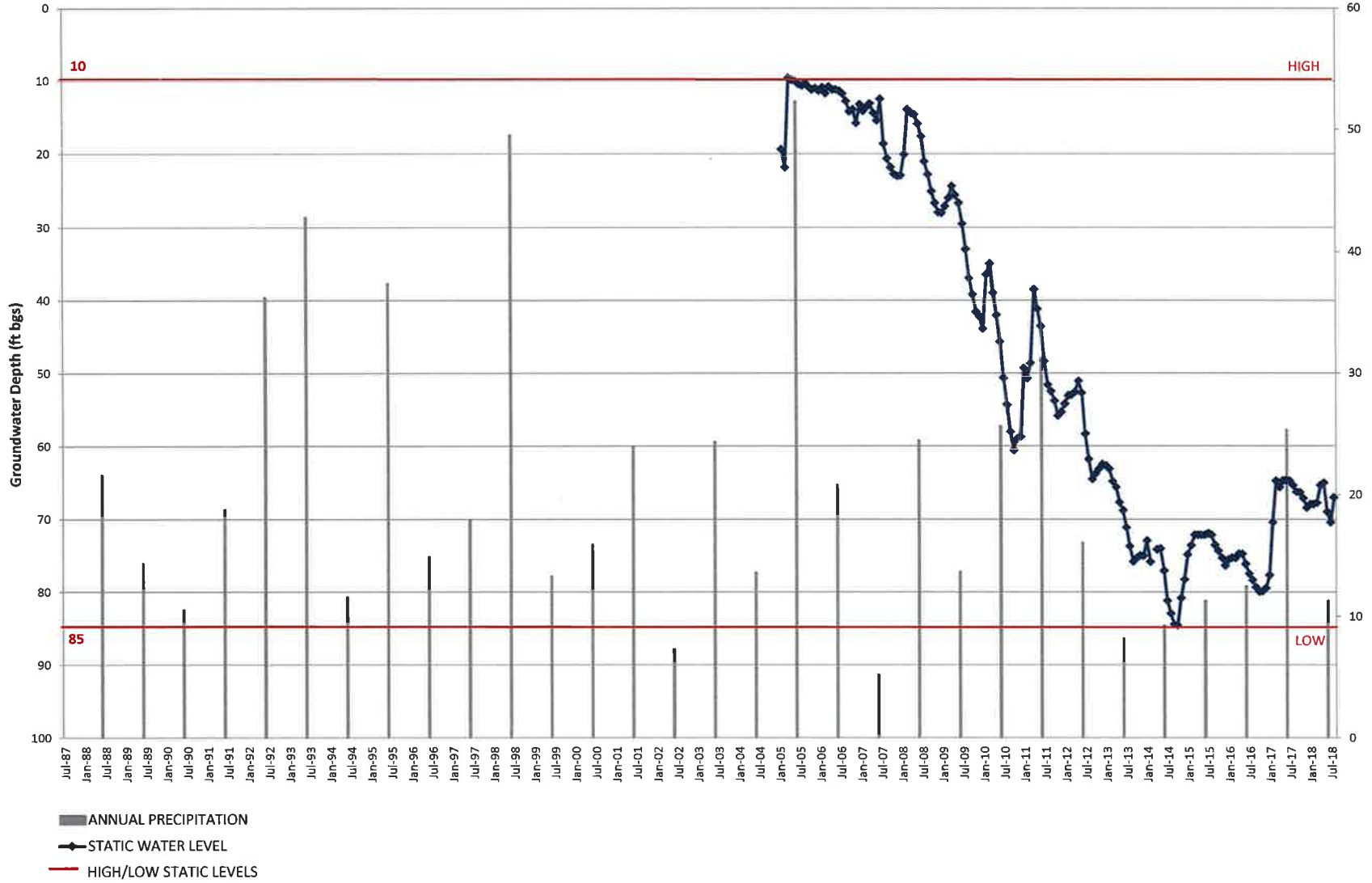
SCV WATER WELL T7 STATIC WATER LEVEL VS PRECIPITATION



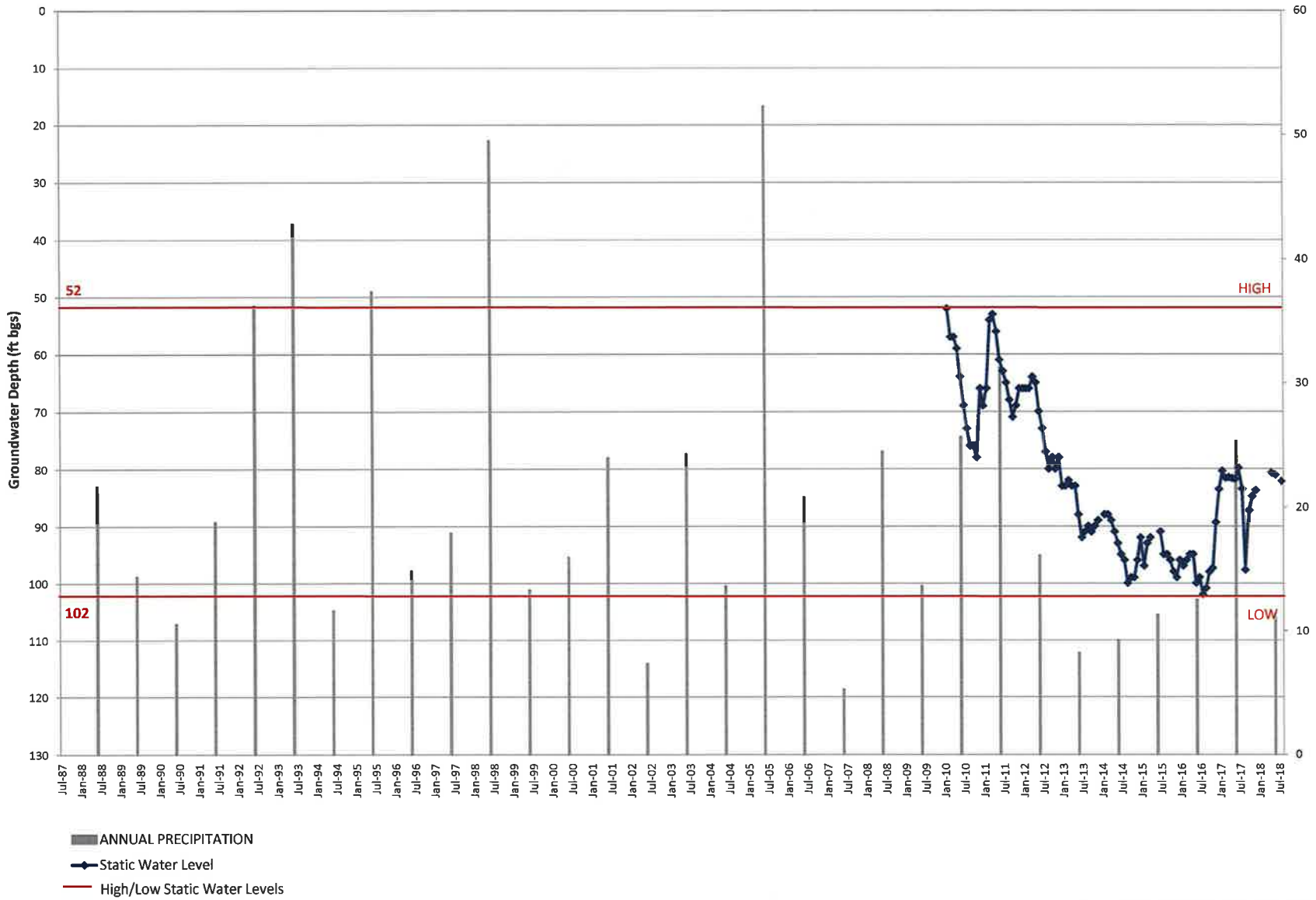
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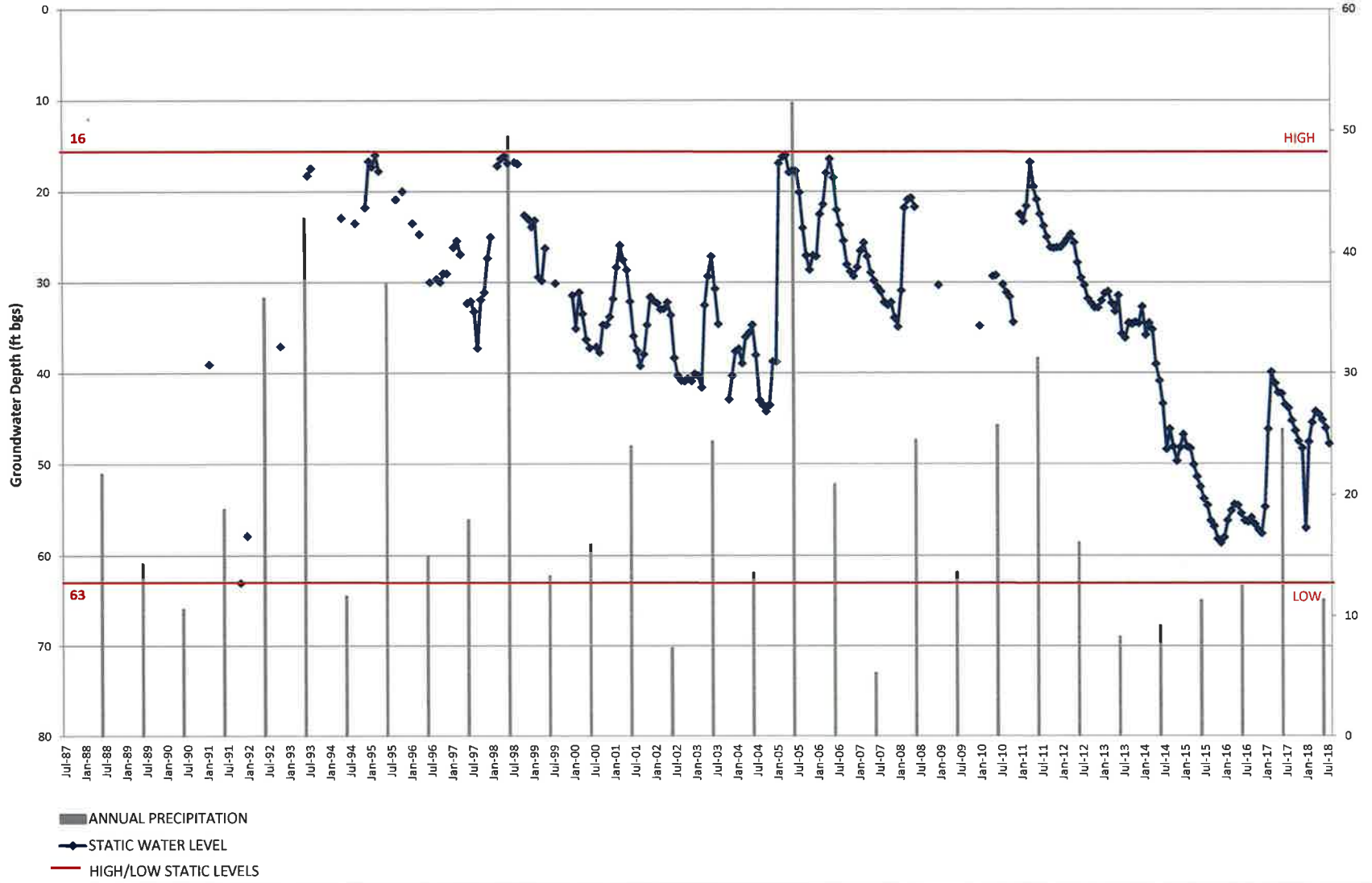
SCV WATER WELL U6 STATIC WATER LEVEL VS PRECIPITATION



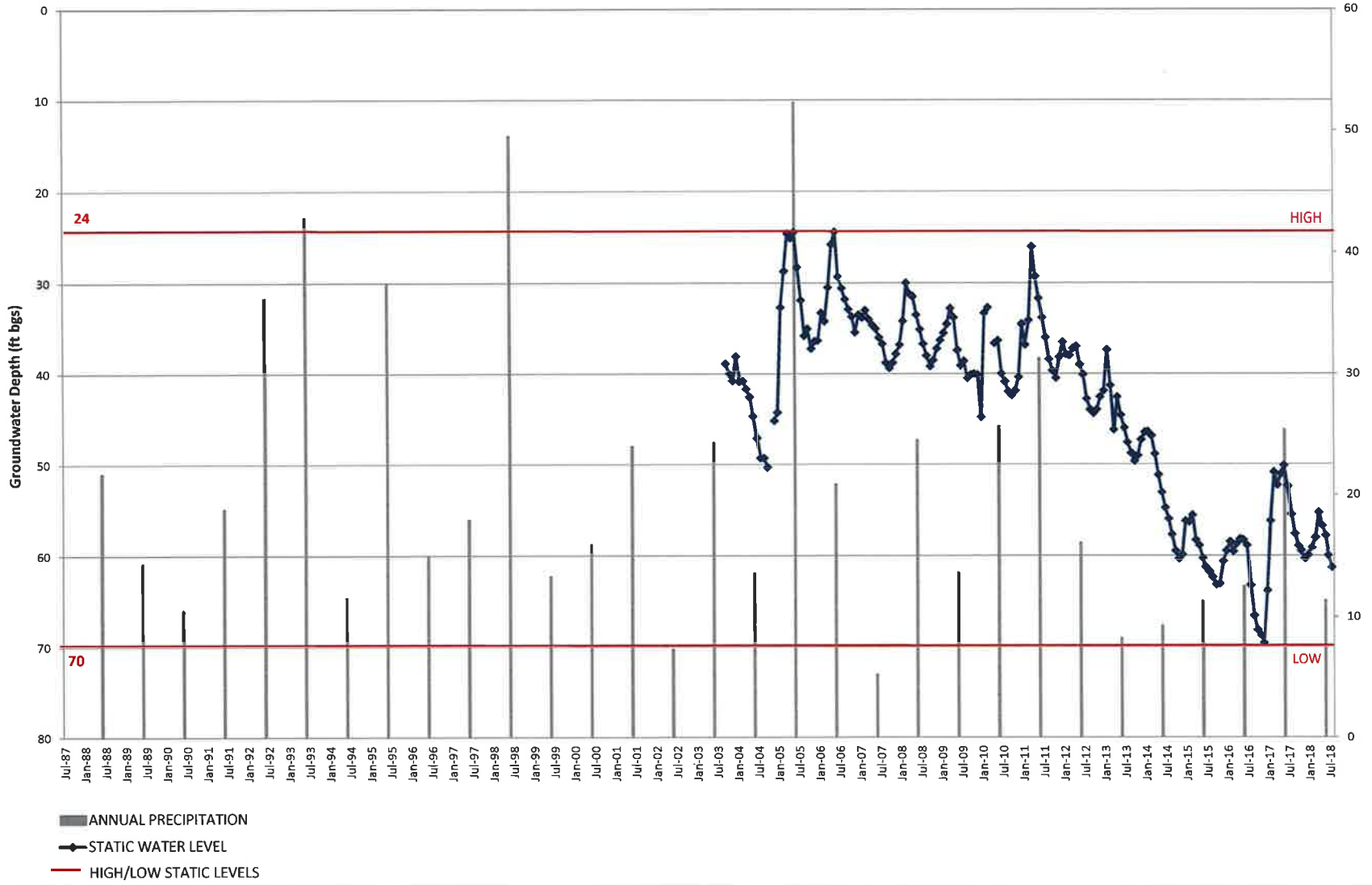
**SCV WATER WELL VALLEY CENTER
STATIC WATER LEVEL VS PRECIPITATION**



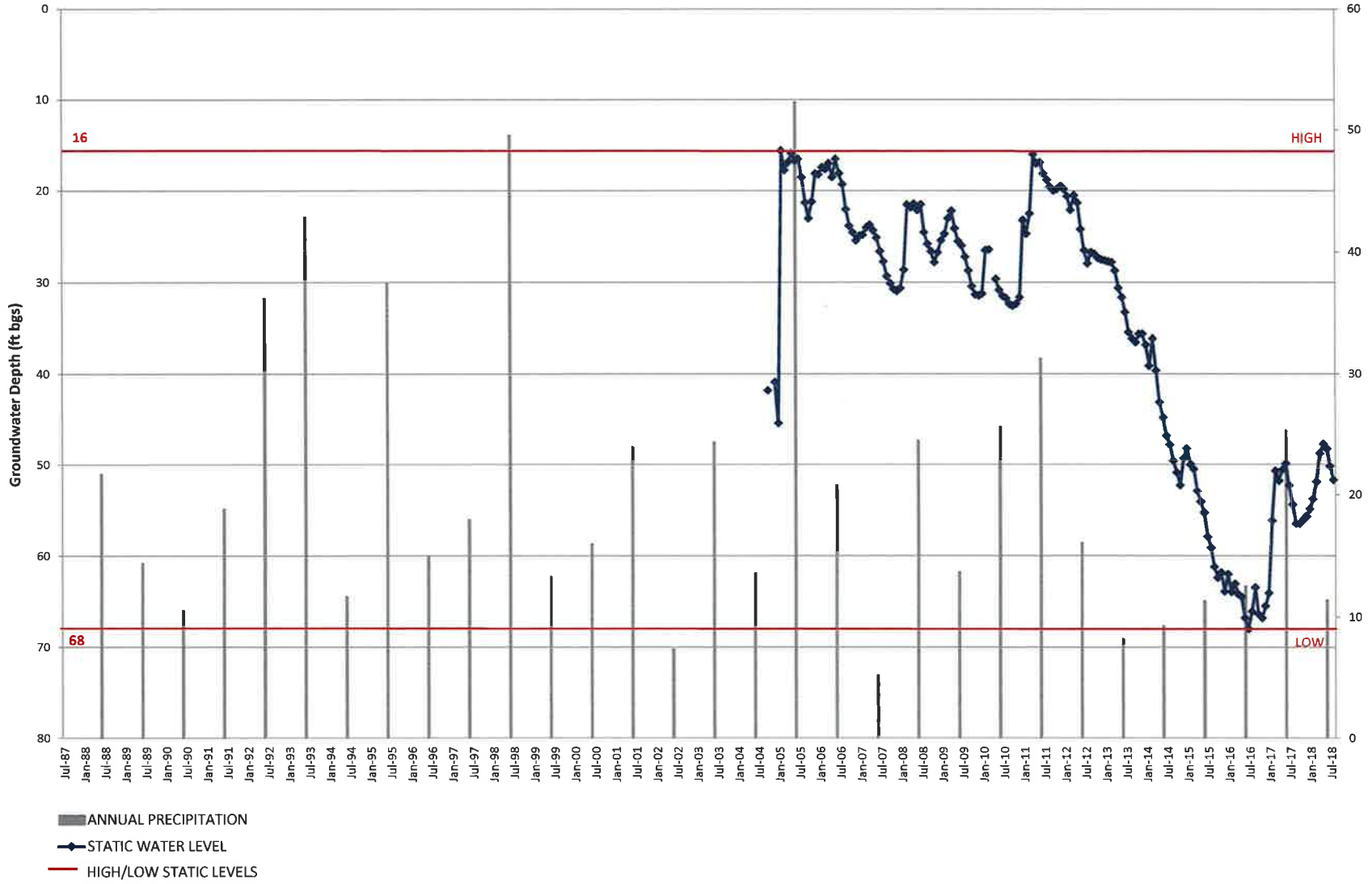
SCV WATER WELL W9 STATIC WATER LEVEL VS PRECIPITATION



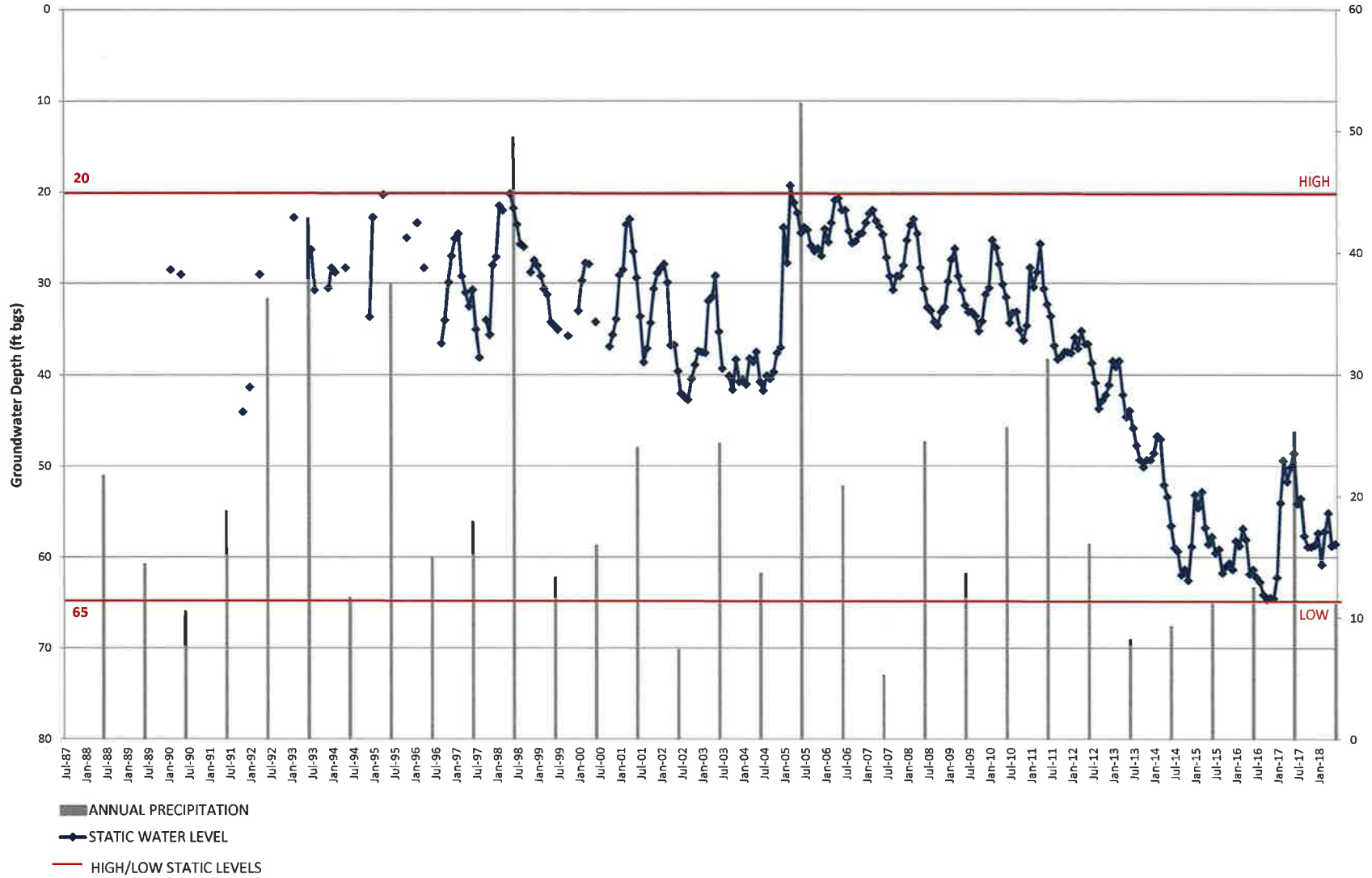
SCV WATER WELL W10 STATIC WATER LEVEL VS PRECIPITATION



SCV WATER WELL W11 STATIC WATER LEVEL PRECIPITATION



SCV WATER WELL N
 STATIC WATER LEVEL VS PRECIPITATION



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**Santa Clarita Valley Water Agency
Capital Improvement Projects (CIP) Construction Status Report
As of September 20, 2018**

Project	Contractor	Original Contract Amount	Change Orders to Date	% Change Orders	Current Contract Amount	Scheduled Completion	Estimated % of Work Completed	Status
Foothill Feeder Turnout	GSE Construction	\$2,691,300	\$107,044	4.0%	\$2,798,344	March 31, 2019	92%	Electrical and loop testing scheduled for September 2018. The 36" wafer check valve will be installed in October 2018. Connections to MWD and SCVWA lines scheduled for February 2019.
ESFP Clearwell / CT Improvements	Clark Brothers	\$5,623,745	(\$13,103.63)	(0.23%)	\$5,610,641.37	September 24, 2018	95%	Basin disinfection has been completed. Pavement work is in progress.
Pipeline Improvements for Newhall Ranch Road Bridge Widening	Staats Construction	\$24,591	\$0	0%	\$24,591	TBD	80%	Relocation of two fire hydrants and installation of irrigation service have been completed. Design plans to relocate one additional fire hydrant is being coordinated with the City.
Well E-17 and Water Improvements	Staats Construction, Padilla Electric, and General Pump	\$571,734	\$0	0%	\$571,734	June 30, 2019	15%	Drain line installed. Well pedestal construction in progress.
Magic Mountain Pipeline Phase 4	FivePoint / Toro Enterprises	\$3,084,725	\$0	0%	\$3,084,725	TBD	1%	FivePoint is securing the contractor's bonds and insurance certification. Construction submittals are in progress.

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**Engineering and Operations Committee
Planning Calendar
FY 2018/19**

**ITEM NO.
5**

	Item	PowerPoint Presentation (Y/N/Length)	July 3 Board CANCELLED	July 5 Comm CANCELLED	Aug 2 Comm	Aug 7 Board	Sept 4 Board	Sept 6 Comm	Sept 18 Board	Oct 2 Board	Oct 3 Comm	Nov 1 Comm	Nov 6 Board	Dec 4 Board	Dec 10 Comm	Jan 2 Board	Jan 3 Comm	Feb 5 Board	Feb 7 Comm	March 5 Board	March 7 Comm	April 2 Board	April 4 Comm	May 2 Comm	May 7 Board	June 4 Board	June 6 Comm	July 2 Board
1	Monthly Committee Planning Calendar	None			C			C			P	P			P		P		P		P		P				P	
2	CIP Construction Status Report	None			C			C			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	
4	Third Party Funded Agreements Quarterly Report	None			C							P							P									
5	Quarterly Safety Program Presentation	Yes 10 min			C		C					P		P					P	P					P		P	
6	Recommend Approval of Construction Contract Funding and a Work Authorization for Inspection Services for Magic Mountain Pipeline No. 4	Yes 10 min			C		C																					
7	Approve Community Workforce Agreement	None			C			C	C																			
8	Recommend Approval of a Change Order to Contract with GSE Construction to Increase Budget for Foothill Feeder Connection Construction	None						C	C																			
9	Recommend Approval of a Work Authorization for TBD for final design of the Magic Mountain Pipeline No. 6	Yes 10 min									P		P															
10	Recommend approval of a Work Authorization for TBD for Engineering Services for VOC Response Action/NCP	TBD										P		P														
11	Recommend Approval of a Change Order with GSE Construction, Increase Vali Cooper's budget for Construction Management Services and increase MWDSC's Work Authorization for the Foothill Feeder Connection Project	TBD										P		P														
12	Recommend Approval of a Work Authorization for TBD for final design of the Magic Mountain Reservoir	TBD										P		P														
13	Recommend Approval of a Work Authorization for TBD for final design of the Replacement Wells Pipeline/Infrastructure	TBD										P		P														
14	Recommend Approval of a Work Authorization for TBD for final design of the Replacement Wells (Wells only)	TBD										P		P														
15	Recommend approval of Resolution Awarding Construction Contract to TBD for Recycled Water Vista Canyon (Phase 2B) Tank	TBD													P	P												

C = Completed Item
P = Planned Item

**Engineering and Operations Committee
Planning Calendar
FY 2018/19**

	Item	PowerPoint Presentation (Y/N/Length)	July 3 Board CANCELLED	July 5 Comm CANCELLED	Aug 2 Comm	Aug 7 Board	Sept 4 Board	Sept 6 Comm	Sept 18 Board	Oct 2 Board	Oct 3 Comm	Nov 1 Comm	Nov 6 Board	Dec 4 Board	Dec 10 Comm	Jan 2 Board	Jan 3 Comm	Feb 5 Board	Feb 7 Comm	March 5 Board	March 7 Comm	April 2 Board	April 4 Comm	May 2 Comm	May 7 Board	June 4 Board	June 6 Comm	July 2 Board	
16	Recommend Approval of Resolution Awarding Construction Contract to TBD to Recoat Roof Interior of Honby Tank #1	TBD													P	P													
17	Recommend Approval of Resolution Authorizing SCVWA to Execute Consolidation and Water Service Agreement, and Financing Agreement for Construction of Pipeline to the Los Angeles Residential Community	TBD													P	P													
18	Recommend Approval of Resolution Awarding Construction Contract to TBD for Pipeline to the Los Angeles Residential Community	TBD													P	P													
19	Recommend Approval of Resolution Awarding Construction Contract to TBD for Washwater Return and Sludge Systems Project	TBD															P	P											
20	Recommend approval of Resolution Awarding Construction Contract to TBD for Recycled Water Vista Canyon (Phase 2B) Pipelines	TBD															P	P											
21	Recommend Approval of Resolution Awarding Construction Contract to TBD to Recoat Exterior of Catala No. 4 Tank	TBD															P	P											
22	Recommend Approval of Resolution Awarding Construction Contract to TBD for West Ranch Recycled Water Main Extension (Phase 2D) Project	TBD															P	P											
23	Recommend Approval of Construction Contract Funding and a Work Authorization for Inspection Services for Magic Mountain Pipeline No. 5	TBD																	P	P									
24	Recommend Approval of Resolution Awarding Construction Contract to TBD for New Intertie and Pressure Regulating Station with Newhall County Water District at Gary Street	TBD																			P	P							
25	Recommend Approval of Construction Contract Funding and a Work Authorization for Inspection Services for Magic Mountain Pipeline No. 6	TBD																				P	P						
26	Recommend Approval of Resolution Awarding Construction Contract to TBD for Pipeline in Rainbow Glen Drive	TBD																			P	P							
27	Recommend Approval of Construction of a New 2.5 MG Deane Tank and Cost Sharing Agreement with Developer	TBD																					P	P					
28	Recommend Approval of Construction of a New Deane Zone Pump Station and Cost Sharing Agreement with Developer	TBD																					P	P					

C = Completed Item
P = Planned Item

**Engineering and Operations Committee
Planning Calendar
FY 2018/19**

	Item	PowerPoint Presentation (Y/N/Length)	July 3 Board CANCELLED	July 5 Comm CANCELLED	Aug 2 Comm	Aug 7 Board	Sept 4 Board	Sept 6 Comm	Sept 18 Board	Oct 2 Board	Oct 3 Comm	Nov 1 Comm	Nov 6 Board	Dec 4 Board	Dec 10 Comm	Jan 2 Board	Jan 3 Comm	Feb 5 Board	Feb 7 Comm	March 5 Board	March 7 Comm	April 2 Board	April 4 Comm	May 2 Comm	May 7 Board	June 4 Board	June 6 Comm	July 2 Board
29	Recommend Approval of a Work Authorization for final design of the Recycled Water Central Park (Phase 2A) Project	TBD																						P		P		
30	Recommend Approval of a Work Authorization for TBD for final design of the Groundwater Treatment Improvements (VOC Treatment)	TBD																						P		P		