



Date: December 23, 2020

To: **Engineering and Operations Committee**
William Cooper, Chair
Jeff Ford
Gary Martin
Piotr Orzechowski
Lynne Plambeck

From: Courtney Mael, Chief Engineer *CM*
Keith Abercrombie, Chief Operating Officer *KA*

The **Engineering and Operations Committee** is scheduled to meet via teleconference on **Thursday, January 7, 2021 at 5:30 PM**, dial in information is listed below.

TELECONFERENCE ONLY
NO PHYSICAL LOCATION FOR MEETING

TELECONFERENCE NOTICE

Pursuant to the provisions of Executive Order N-29-20 issued by Governor Gavin Newsom on March 17, 2020, any Director may call into an Agency Committee meeting using the Agency's **Call-In Number 1-877-309-2073 ,Access Code 324-367-429** **or GoToMeeting by clicking on the link <https://global.gotomeeting.com/join/324367429>** without otherwise complying with the Brown Act's teleconferencing requirements.

Pursuant to the above Executive Order, the public may not attend the meeting in person. Any member of the public may listen to the meeting or make comments to the Committee using the call-in number or GoToMeeting link above. Please see the notice below if you have a disability and require an accommodation in order to participate in the meeting.

We request that the public submit any comments in writing if practicable, which can be sent to **egallo@scvwa.org** or mailed to **Elizabeth Gallo, Administrative Analyst**, Santa Clarita Valley Water Agency, 26521 Summit Circle, Santa Clarita, CA 91350. All written comments received before 4:00 PM the day of the meeting will be distributed to the Committee members and posted on the Santa Clarita Valley Water Agency website prior to the meeting. Anything received after 4:00 PM the day of the meeting will be posted on the SCV Water website the following day.

MEETING AGENDA

<u>ITEM</u>		<u>PAGE</u>
1.	Public Comments – Members of the public may comment as to items not on the Agenda at this time. Members of the public wishing to comment on items covered in this Agenda may do so now or at the time each item is considered. (Comments may, at the discretion of the Committee Chair, be limited to three minutes for each speaker.)	
2.	* Recommend Approval of a Purchase Order to Cannon Corporation for Final Design Services for the New Deane Zone Tank, Pump Station and Disinfection Facility at Skyline Ranch	1
3.	* Monthly Operations and Production Report	13
4.	* Capital Improvement Projects Construction Status Report	117
5.	* Committee Planning Calendar	119
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 Elizabeth Gallo, Administrative Analyst, at (661) 259-2737, or in 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, CA 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 December 28, 2020.

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COMMITTEE MEMORANDUM

DATE: December 14, 2020

TO: Engineering and Operations Committee

FROM: Courtney Mael, P.E. *CM*
Chief Engineer

SUBJECT Recommend Approval of a Purchase Order to Cannon Corporation for Final Design Services for the New Deane Zone Tank, Pump Station and Disinfection Facility at Skyline Ranch

SUMMARY

Staff recommends approval of a purchase order to Cannon Corporation (Cannon) for final design of a new tank, pump station and disinfection facility for the SCV Water Deane Zone to be located at Skyline Ranch. This project provides necessary emergency storage and pumping improvements identified in the 2013 Water Master Plan for the Santa Clarita Water Division (SWCD).

DISCUSSION

The 2013 Water Master Plan for Santa Clarita Water Division recommends the construction of new storage and pumping facilities to address existing deficiencies in the Deane Pressure Zone that provides water to the east side of our service area. There is currently a storage deficiency of 4.22 Million Gallons (MG) and a pumping deficiency of 736 gallons per minute (gpm) in the existing Deane Zone system. The Deane Zone will undergo a significant expansion as a result of the Tract 60922 Skyline Ranch development currently in construction. The Skyline Ranch Development is expected to add approximately 0.87 MG of storage demand and 1237 gpm of pumping demand to the Deane Zone, resulting in a combined tank and pumping deficiency of 5.09 MG and 1,973 gpm, respectively.

The existing deficiencies and additional demands are being addressed jointly by SCV Water and the Skyline Ranch developer by constructing a new 2.08 MG tank, a pump station and disinfection facility that will serve existing Agency customers in the Deane Zone and the new Skyline Ranch community. The developer is providing land (by grant deed) and graded sites to SCV Water for these Shared Facilities within the limits of the Skyline Ranch development.

In addition, the developer will pay their fair share of the costs to design and construct the new tank, pump station and disinfection facility, as determined by the Skyline Ranch Planning Phase Analysis, dated September 9, 2020, prepared by Civiltec Engineering, Inc. The Planning Phase Analysis provided a hydraulic analysis and preliminary design for the new water system infrastructure required for the entire Skyline Ranch development, which included a total of four new tanks, three new pump stations, a disinfection facility, and pipelines. Based on the analysis, the developer will pay 100 percent of the costs for two new tanks, two new pump stations, the disinfection facility, and pipelines that are solely to serve the new development. Furthermore, since the Skyline Ranch development will add to the existing deficiencies in the existing Deane Zone, the developer will be responsible for its fair share of the costs to design and construct the

Shared Facilities, which will include a new tank and pump station in the Deane Zone. Based on the hydraulic analysis, the developer will contribute 41.8 percent of the cost for the new tank, and 39.7 percent of the cost for the new pump station. The developer's fair share will be applied to both design and construction costs for the new facilities.

Staff prepared a Request for Proposal (RFP) for final design of a complete, functional system that includes the new Deane tank, pump station and disinfection facility. On October 19, 2020, RFPs for final design were sent to seven (7) of the Agency's on-call engineering firms based on their qualifications and experience. On November 9, 2020, four (4) firm's submitted proposals in response to the RFP: Cannon, Civiltec Engineering, Michael Baker International, and West Yost. Three (3) firms declined to submit proposals: Black & Veatch, Kennedy/Jenks Consultants, and Woodard & Curran.

A selection committee reviewed the proposals and assigned a score based on the following criteria: project approach, qualifications, project team, and schedule. Based on a review of the proposals, staff recommends Cannon be awarded the purchase order to prepare the final design for the Deane tank, pump station, and disinfection facility. Cannon is well qualified with recent and relevant experience in working for SCV Water, including similar facilities for the Skyline Ranch development. Cannon's in-house multi-disciplinary team has sufficient depth to meet the aggressive schedule required for the project.

CEQA CONSIDERATIONS

The County of Los Angeles is the Lead Agency under the California Environmental Quality Act (CEQA) for the Skyline Ranch Development Project. The County prepared an Environmental Impact Report (EIR) for the Skyline Ranch Project pursuant to CEQA provisions. The EIR included all of the water infrastructure required for the Skyline Ranch Project. The Final EIR was approved by the Los Angeles County Board of Supervisors on December 7, 2010. The Notice of Determination was filed with Los Angeles County Clerk on December 9, 2010.

FINANCIAL CONSIDERATIONS

The project is included in the SCV Water's FY 2020/21 Capital Improvement Budget for design of the new Deane Tank and Pump Station. Since this is a joint project with the developer, these are Shared Facilities and as such, the approved CIP Design Budget of \$250,000 is for SCV Water's portion of the design. Cannon's proposal is \$384,057 for final design of the complete system including the Deane tank, pump station and disinfection facility. The developer is responsible for \$199,697, based on their fair share of the facilities (including 100% for the design of the disinfection facility). SCV Water's portion of the design is \$184,360 and is within the approved design budget of \$250,000. SCV Water's portion is broken down into \$68,489 for design of the Deane tank, and \$115,871 for design of the Deane pump station. (Note: Preliminary Design was paid for by the developer). Budget for construction will be included in the upcoming FY 2021/22 CIP Budget.

RECOMMENDATION

That the Engineering and Operations Committee recommends that the Board of Directors authorize the General Manager to issue a purchase order to Cannon for an amount not to exceed \$184,360 for SCV Water's portion of the Deane tank and Deane pump station.

TBP

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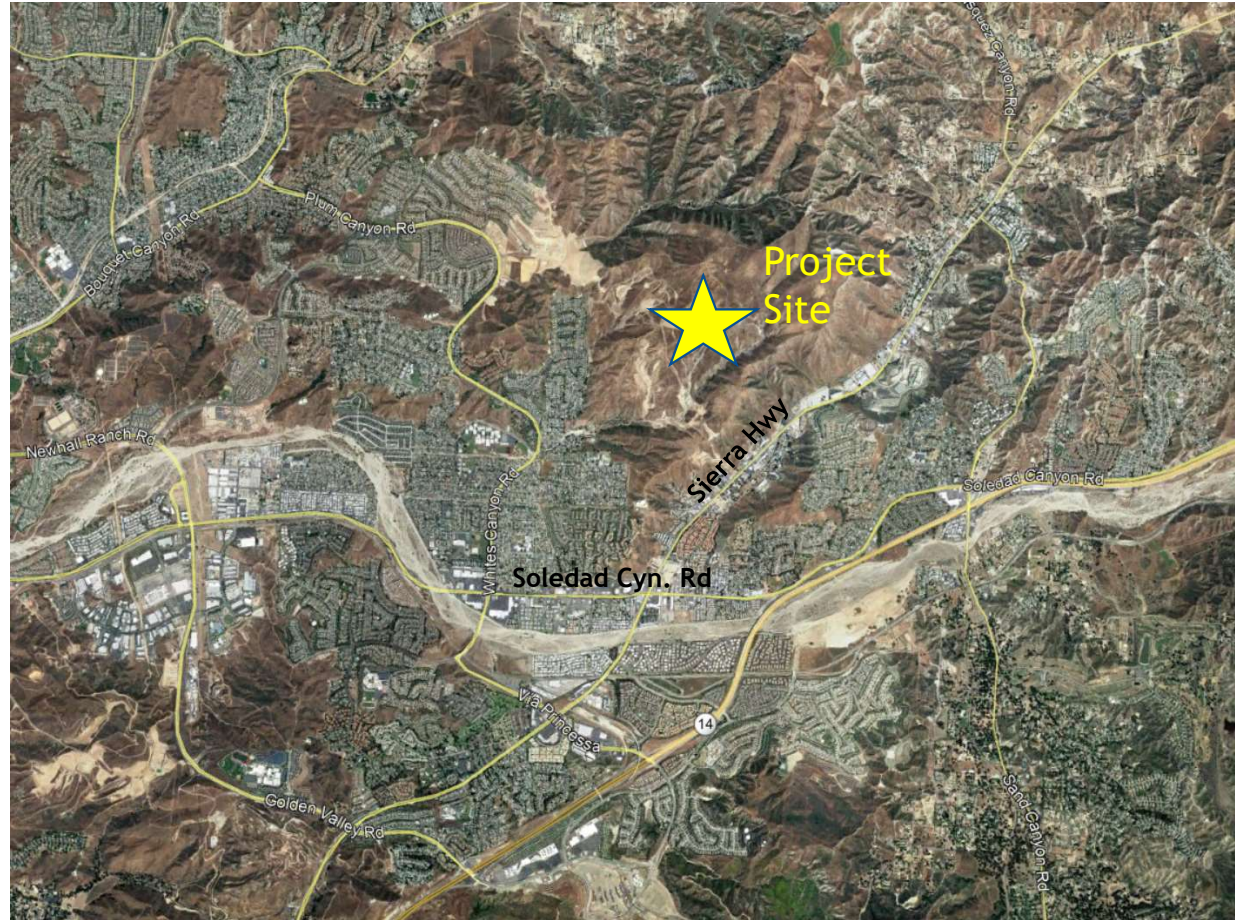
January 7, 2021

Skyline Ranch Project

Design of the Deane Zone Tank, Pump Station and Disinfection Facility

Engineering & Operations
Committee

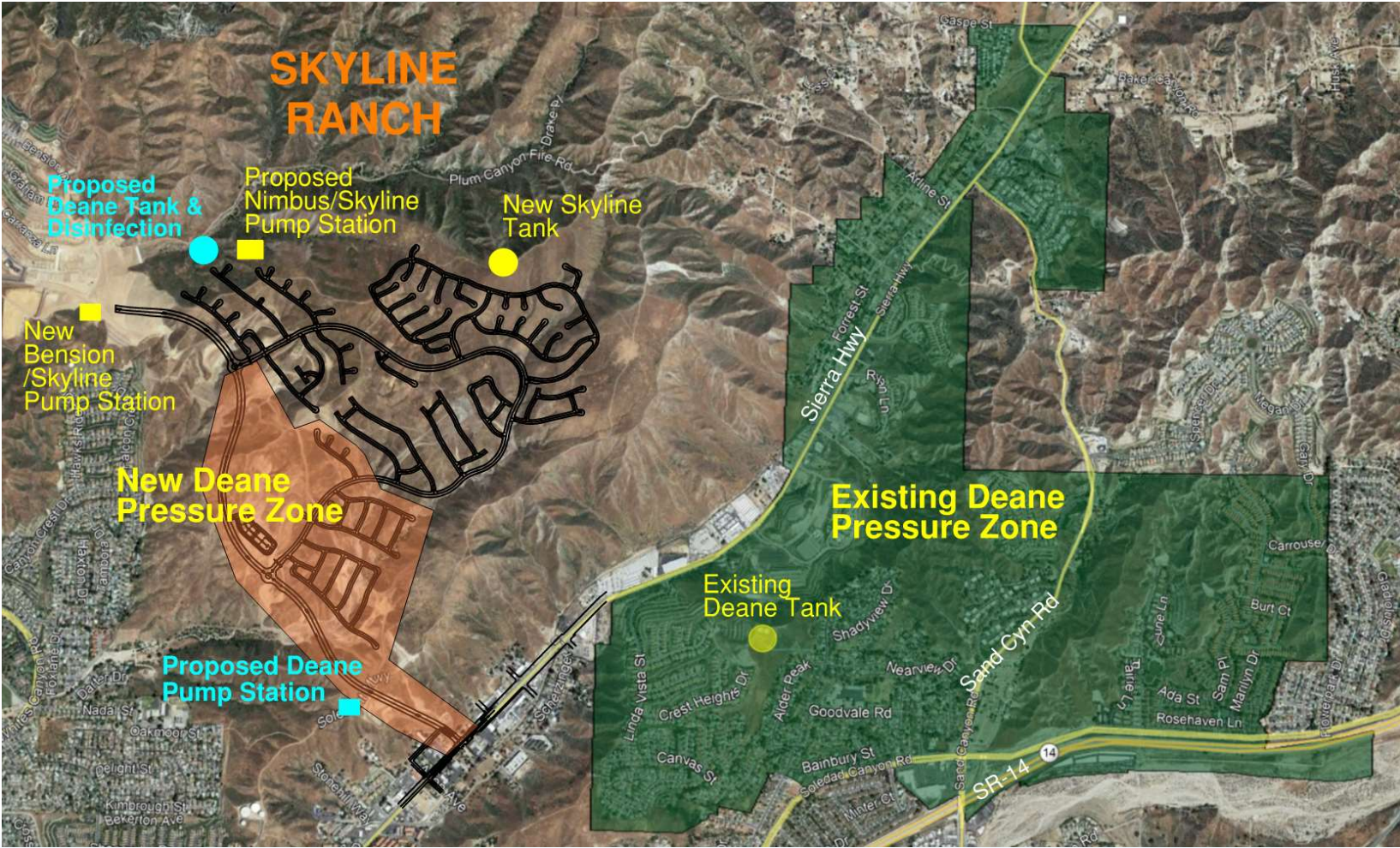
Vicinity Map



YOURSCVWATER.COM



Overview of the Deane Pressure Zone



Skyline Ranch Water Improvements Project Status

Skyline Ranch Zone (First Phase)

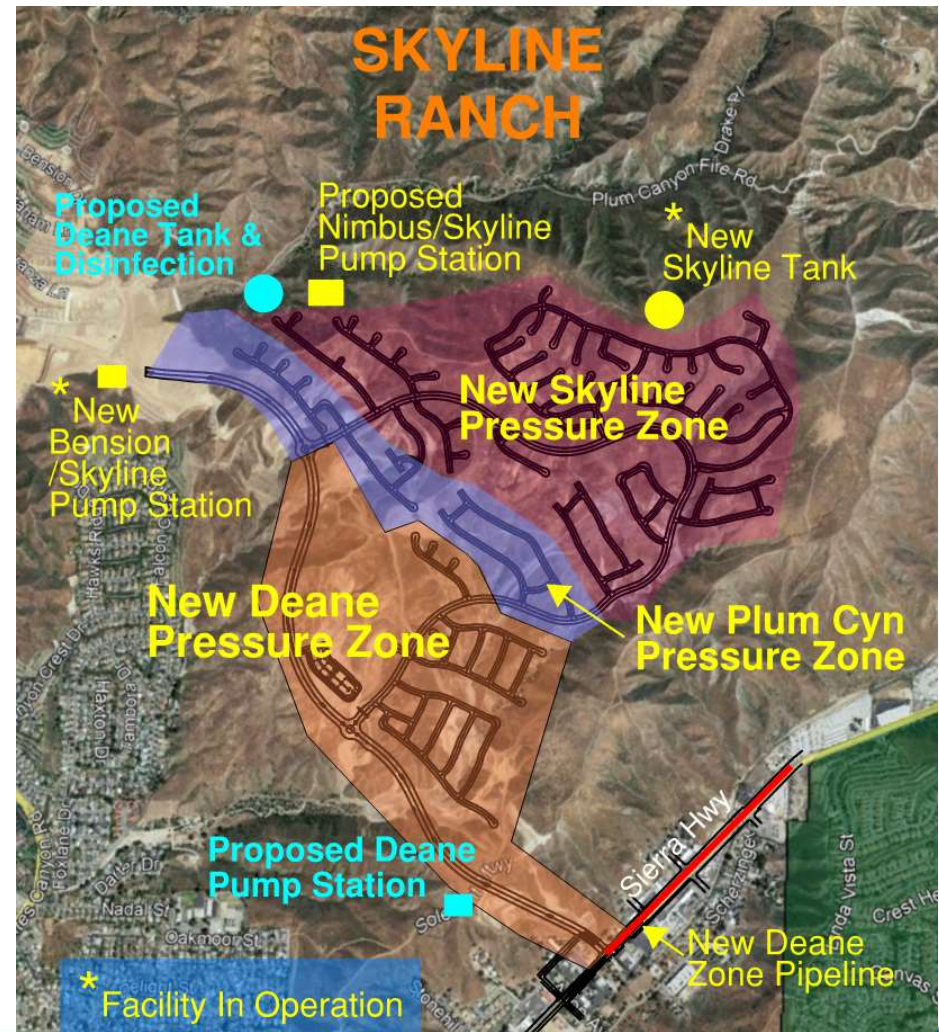
- ❖ Bension/Skyline pump station - developer funded (operational)
- ❖ Skyline tanks (2) - developer funded (operational)
- ❖ Backbone and In-Tract Pipelines - developer funded (In construction)

Plum Canyon Zone (First Phase)

- ❖ In-Tract Pipelines - developer funded (In construction)

Deane Zone (Second Phase)

- ❖ Sierra Highway Deane Pipeline - developer funded (In construction)
- ❖ Nimbus/Skyline Pump Station - developer funded (In design)
- ❖ New Deane Tank, Pump Station and Disinfection facility - Shared Facilities needed by Q4 2022 (Pending design award)



YOURSCVWATER.COM



Deane Zone Tank, Pump Station and Disinfection Facility Final Design-Scope of Work

Final engineering and preparation of construction documents (plans, specification and cost estimate) for the following improvements:

1. One - 2.08 million-gallon Deane Zone tank, piping, site work and appurtenances.
2. Deane Zone pump station with three 75 HP pumps (two duty and one stand-by), piping, site work and appurtenances.
3. Disinfection building with chloramine feed system.
4. Site/design will include provisions to add second 2.08 MG tank (future CIP project)



Deane Zone Tank, Pump Station and Disinfection Facility Evaluation of Final Design Proposals

- ❖ RFP was issued to 7 of the engineering firms from the on-call list.
- ❖ Received fee proposals from 4 engineering consultants.
- ❖ Selection committee scored consultants based on the following:
 - ✓ Project approach
 - ✓ Project team
 - ✓ Project schedule
 - ✓ Qualifications
- ❖ Consultant with the highest combined score was recommended for award of the project (Cannon Corporation)



Deane Zone Tank, Disinfection Facility and Pump Station Project Budget

Final Engineering Budget

Total Final Engineering Fee (Cannon): \$384,057

Facility	Final Design Fee per Facility	SCV Water Fair Share ⁽¹⁾ %	SCV Water Fair Share Amount ⁽²⁾	Developer Fair Share ⁽¹⁾ %	Developer Fair Share Amount
Deane Tank	\$117,679	58.2%	\$68,489	41.8%	\$49,190
Chloramine Disinfection Facility	\$74,220	0.0%	\$0	100%	\$74,220
Deane Pump Station	\$192,158	60.3%	\$115,871	39.7%	\$76,287
TOTAL	\$384,057		\$184,360		\$199,697

(1) Determined by Hydraulic Analysis (Civiltec, September 9, 2020)

(2) FY 2020/21 CIP Budget for Design is \$250,000

Estimated Construction Budget (Planning Level): \$5 Million



Deane Zone Tank, Pump Station and Disinfection Facility Anticipated Project Schedule

- December 6, 2021 - Final Design Plans, Specs & Cost Estimate Approval & Signatures
- February 1, 2022 - Board Meeting for Approval
- February 14, 2022 - Award Contract & Issue the Notice to Proceed
- February 14, 2022 - December 31, 2022 - Construction Period (320 calendar days)



Deane Zone Tank, Pump Station and Disinfection Facility Recommendation

That the Engineering & Operations Committee recommends that the Board of Directors:

- Authorize the General Manager to issue a purchase order with Cannon for an amount not to exceed \$184,360 for SCV Water's portion of the final design of the Deane Zone tank and pump station at Skyline Ranch.



Questions?

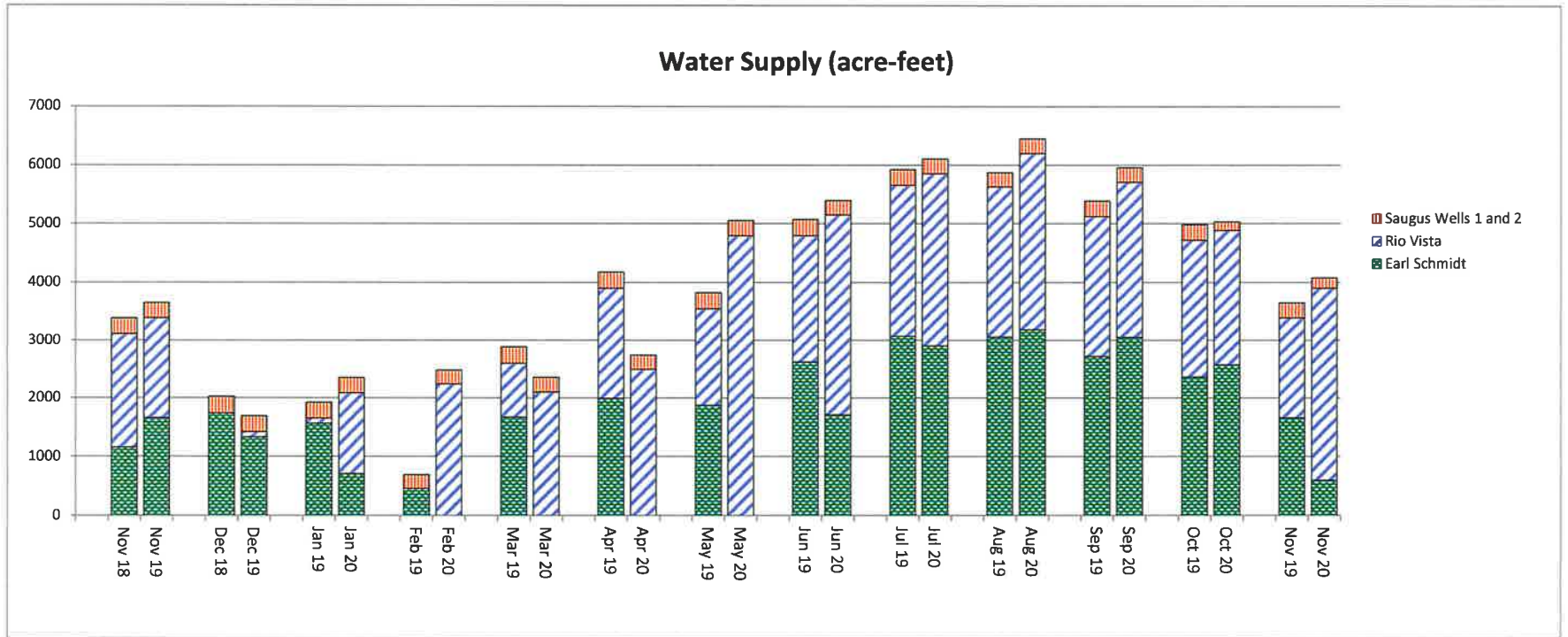




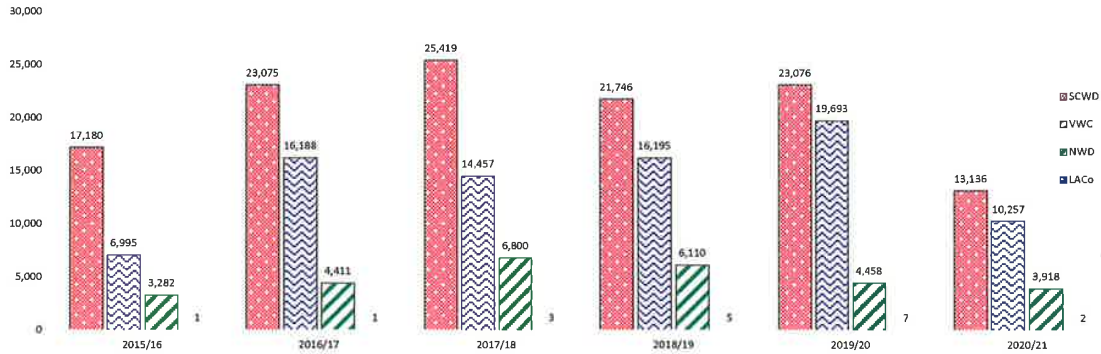
Monthly Operations & Production Report

November 2020

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HISTORICAL FY Production 2015-2021



HISTORICAL FY PRODUCTION 2015-2021

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	384	157	366	412	462	715	1,375	6,995
NCWD	347	373	325	278	233	199	148	195	206	250	319	411	3,282
LACo	0	0	0	0	0	0	0	1	0	0	0	0	1
Total	2,769	2,946	2,524	2,455	2,207	1,743	1,134	1,622	1,803	1,888	2,646	3,721	27,458
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	907	620	643	764	1,123	1,728	2,489	2,614	16,188
NCWD	478	467	418	372	293	234	141	109	216	384	604	685	4,411
LACo	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	4,447	4,770	4,091	3,580	2,612	2,231	1,736	1,716	2,699	4,152	5,559	6,081	43,674
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	1,805	2,076	2,264	25,419
VWC	2,089	1,723	1,184	1,260	906	969	853	676	619	1,180	1,338	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
Total	5,958	5,615	4,619	4,522	3,528	3,481	2,684	2,632	1,746	3,414	3,885	4,695	46,680
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
VWD	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	362	214	181	76	352	428	422	603	6,110
LACo	1	0	0	1	0	0	1	1	1	0	0	0	5
Total	5,639	5,855	5,160	4,011	3,349	1,947	1,805	802	2,735	4,016	3,754	4,985	44,057
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	2,743	2,475	2,310	1,845	980	1,207	1,416	1,212	1,368	2,358	2,552	23,076
VWD	2,491	2,518	2,348	2,145	1,526	604	957	762	919	1,086	2,171	2,186	19,693
NWD	721	518	492	422	280	130	188	232	177	226	475	597	4,458
LACo	2	0	0	1	1	1	1	0	0	0	0	0	7
Total	5,823	5,779	5,316	4,879	3,651	1,715	2,353	2,411	2,309	2,660	5,004	5,336	47,234
Cum. FYTD	5,823	11,602	16,918	21,796	25,448	27,162	29,515	31,926	34,235	36,894	41,898	47,234	
2019/20	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total
SCWD	2,849	3,117	2,792	2,470	1,907	0	0	0	0	0	0	0	13,136
VWD	2,316	2,257	2,115	1,915	1,653	0	0	0	0	0	0	0	10,257
NWD	882	999	963	584	490	0	0	0	0	0	0	0	3,918
LACo	0	0	0	0	0	0	0	0	0	0	0	0	2
Total	6,048	6,373	5,870	4,970	4,050	0	0	0	0	0	0	0	27,312
Cum. FYTD	6,048	12,422	18,292	23,262	27,312	27,312	27,312	27,312	27,312	27,312	27,312	27,312	

* Total does not include recycled water.

SANTA CLARITA VALLEY WATER AGENCY
Record of Weather Observations
 November 2020

DATE	High Temperature	Low Temperature	Precipitation 2020	Precipitation 2019
1-Nov	88	47	0.00	0.00
2-Nov	85	48	0.00	0.00
3-Nov	83	47	0.00	0.00
4-Nov	89	45	0.00	0.00
5-Nov	88	50	0.00	0.00
6-Nov	75	53	0.00	0.00
7-Nov	57	40	0.09	0.00
8-Nov	57	38	0.04	0.00
9-Nov	61	28	0.01	0.00
10-Nov	64	28	0.00	0.00
11-Nov	69	30	0.00	0.00
12-Nov	71	34	0.00	0.00
13-Nov	68	34	0.00	0.00
14-Nov	80	41	0.00	0.00
15-Nov	84	40	0.00	0.00
16-Nov	81	47	0.00	0.00
17-Nov	78	42	0.00	0.00
18-Nov	68	38	0.00	0.00
19-Nov	76	41	0.00	0.00
20-Nov	76	40	0.00	0.18
21-Nov	75	41	0.00	0.00
22-Nov	78	41	0.00	0.01
23-Nov	71	37	0.00	0.00
24-Nov	70	38	0.00	0.00
25-Nov	67	34	0.00	0.00
26-Nov	62	36	0.00	0.00
27-Nov	64	44	0.00	0.93
28-Nov	67	37	0.00	1.31
29-Nov	71	36	0.00	0.01
30-Nov	74	37	0.00	0.17

TOTAL	0.14	2.61
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	2020-2021	2019-2020
<i>Total Precipitation of Current Month</i>	0.14	2.61
<i>Total Precipitation End of Previous Month</i>	0.04	0.01
Total Precipitation Since October 1st	0.18	2.62
<i>Temperature Averages for Current Month</i>		
HIGH	73.2	73.8
LOW	39.7	40.5

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

	<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>	<i>2008-09</i>	<i>2009-10</i>
Oct	0.00	1.13	0.22	0.00	1.10	4.79	1.91	0.42	0.25	0.09	4.04
Nov	0.00	0.00	3.18	3.01	0.63	0.64	0.59	0.05	0.50	1.78	0.08
Dec	0.05	0.00	1.30	5.85	2.57	8.54	0.14	0.83	2.67	3.01	4.28
Jan	1.21	5.84	1.55	0.00	0.65	17.06	3.27	1.66	17.54	0.69	9.13
Feb	9.43	10.76	0.51	9.03	8.07	16.69	3.78	1.38	1.82	6.78	4.96
Mar	3.15	3.38	0.38	2.38	0.37	2.70	5.68	0.17	0.10	1.18	0.69
Apr	2.10	2.56	0.05	2.35	0.20	1.42	4.22	0.71	0.07	0.07	2.40
May	0.00	0.00	0.12	1.70	0.00	0.45	0.99	0.00	0.17	0.01	0.07
Jun	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00
Jul	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.04	0.00	0.00	0.00
Aug	0.31	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00
Sep	0.00	0.00	0.02	0.00	0.00	0.17	0.00	1.32	0.00	0.00	0.00
TOTAL	16.25	23.67	7.34	24.34	13.59	52.55	20.58	6.58	23.12	13.64	25.65
	<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>	<i>2019-20</i>	<i>2020-21</i>
Oct	1.34	1.97	0.15	0.11	0.32	0.17	0.43	0.00	0.52	0.01	0.04
Nov	1.87	2.50	2.20	1.41	0.64	0.21	1.49	0.06	1.87	2.61	0.14
Dec	11.97	1.19	1.54	0.37	6.16	0.49	3.44	0.01	2.77	5.12	
Jan	0.96	1.23	1.94	0.06	1.44	6.07	10.30	3.18	8.08	0.54	
Feb	5.36	0.13	0.42	5.26	0.74	0.69	8.98	0.35	8.56	0.12	
Mar	8.86	4.99	1.21	1.64	1.09	2.75	0.33	7.50	4.15	5.81	
Apr	0.12	4.02	0.00	0.31	0.16	0.37	0.09	0.02	0.09	4.45	
May	0.74	0.01	0.74	0.00	0.66	0.09	0.26	0.01	1.60	0.16	
Jun	0.04	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.01	0.01	
Jul	0.01	0.00	0.08	0.02	0.87	0.00	0.01	0.00	0.00	0.00	
Aug	0.00	0.01	0.00	0.05	0.00	0.02	0.07	0.00	0.00	0.00	
Sep	0.00	0.02	0.00	0.00	0.78	0.00	0.13	0.02	0.03	0.01	
TOTAL	31.27	16.07	8.28	9.23	12.87	10.87	25.53	11.15	27.68	18.84	0.18

SANTA CLARITA VALLEY WATER AGENCY
WATER PRODUCTION BY WELL 2020 (ACRE-FEET)

NEWHALL WATER DIVISION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
N12	104	108	96	94	178	175	164	177	179	183	115	0	1573
N13	120	126	111	109	127	197	183	74	49	205	128	0	1429
C1	19	27	17	29	53	58	60	61	27	50	32	0	434
C2	13	14	9	14	27	29	29	29	13	23	15	0	215
C7	35	37	25	38	71	78	79	79	36	66	43	0	586
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
TOTAL NWD	291	312	257	285	456	537	516	419	303	528	333	0	4237

SANTA CLARITA WATER DIVISION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
LOST CANYON NO.2	36	2	0	0	26	31	46	40	44	47	44	0	316
LOST CANYON NO.2A	70	45	13	18	62	64	87	61	100	107	94	0	721
SAND CANYON	80	50	15	20	66	60	76	66	54	100	99	0	686
MITCHELL 5A	0	0	0	0	0	0	0	0	0	0	0	0	0
MITCHELL 5B	0	0	1	1	0	0	0	0	0	0	0	0	2
SIERRA	7	18	6	11	13	8	0	0	0	0	0	0	63
NORTH OAKS EAST	0	0	0	0	0	0	0	0	0	0	0	0	0
NORTH OAKS CENTRAL	1	3	1	0	0	0	0	0	0	0	0	0	5
NORTH OAKS WEST	0	0	0	0	0	0	0	0	0	0	0	0	0
HONBY	1	15	0	0	0	0	0	0	0	0	0	0	16
GUIDA	24	46	0	23	69	52	69	54	54	62	37	0	490
CLARK	17	29	1	0	0	0	0	0	0	0	0	0	47
SANTA CLARA	1	20	3	0	0	0	0	0	0	0	0	0	24
VALLEY CENTER	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL SCWD	237	228	40	73	236	215	278	221	252	316	274	0	2370

VALENCIA WATER DIVISION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
D	20	56	20	23	71	59	36	58	52	48	19	0	462
E15	25	103	33	39	92	90	84	102	90	88	86	0	832
N	53	69	19	0	0	0	0	0	0	0	0	0	141
N7	29	120	9	0	0	0	0	0	0	0	0	0	157
N8	89	108	14	0	0	0	0	0	0	0	0	0	211
Q2	0	0	0	0	0	0	0	0	0	0	0	0	0
T7	3	19	2	0	0	0	0	0	0	0	0	0	23
U6	1	7	5	47	83	0	0	0	0	0	0	0	142
U4	1	4	0	0	0	0	0	0	0	0	0	0	6
S6	0	0	0	0	0	0	0	0	0	0	0	0	0
S7	13	31	0	0	0	0	0	0	0	0	0	0	44
S8	9	14	6	0	0	0	0	0	0	0	0	0	29
W11	40	29	18	36	55	68	91	86	67	34	7	0	531
W9	51	87	57	70	93	102	64	58	59	17	14	0	671
W10	75	63	10	0	0	0	0	0	0	0	0	0	148
159 (GOLF COURSE IRRIGATION)	0	1	0	1	4	7	4	5	4	2	1	0	29
160 (SYSTEM)	1	2	2	2	2	3	2	0	0	0	3	0	18
160 (GOLF COURSE IRRIGATION)	20	29	11	38	73	74	85	69	45	80	31	0	555
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	68	98	95	74	58	115	96	175	77	152	45	0	1052
207	78	116	62	109	150	139	192	89	158	63	94	0	1251
TOTAL VWD	575	956	362	438	680	656	654	644	553	484	300	0	6301

S1	137	129	131	131	132	129	134	135	131	124	128	0	1442
S2	128	114	125	122	117	120	117	117	114	21	47	0	1141
TOTAL S1 & S2	265	243	256	253	249	249	251	252	245	145	176	0	2583

TOTAL WELL PRODUCTION	1367	1739	915	1049	1621	1656	1700	1536	1353	1472	1083	0	15491
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WELL 201 (NON-SYSTEM)	107	61	108	103	102	102	111	102	104	106	103	0	1108
VALLEY CENTER (NON-SYSTEM)	0	0	0	0	0	0	0	0	0	0.46	3.48	0	3.94
Q2 (NON-SYSTEM)	0.12	0.03	0.05	0.05	0.13	0.30	0	0.17	0.17	0	0	0	1.01
205 (NON-SYSTEM)	0	0	0	0	0	0	0	0	0	0	0	0	0.00
N (NON-SYSTEM)	0	0	0.06	0	0	0	0	0	17.64	10.57	26.63	0	54.89
N7 (NON-SYSTEM)										15.23	30.15	0	45.38
N8 (NON-SYSTEM)	0	0	0	0	0	0	0	0	0.00	69.40	37.71	0	107.11
S8 (NON-SYSTEM)	0	0	0	0.00	0.00	0	0.00	0.00	38.40	0.60	0.39	0.0	39.38
W10 (NON-SYSTEM)	0	0	0	0.19	0.23	0.00	0.68	0.21	0.11	0.18	0.29	0.0	1.90
HONBY (NON-SYSTEM)						0.23	0	0	0	0	0	0	0.23
MITCHELL 5B (NON-SYSTEM)							0.54	0.30	0	0	0.24	0	1.08
NORTH OAKS CENTAL (NON-SYSTEM)										0.14	0.48	0.00	0.62

NEWHALL WATER DIVISION
WATER PRODUCTION 2020 (ACRE-FEET)

GROUNDWATER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
NEWHALL SYSTEM													
N12	104	108	96	94	178	175	164	177	179	183	115		1573
N13	120	126	111	109	127	197	183	74	49	205	128		1429
CASTAIC SYSTEM													
C1	19	27	17	29	53	58	60	61	27	50	32		434
C2	13	14	9	14	27	29	29	29	13	23	15		215
C7	35	37	25	38	71	78	79	79	36	66	43		586
PINETREE SYSTEM													
P1	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
P4	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
S1 & S2	71	65	68	68	67	67	67	68	66	39	47		692
TOTAL GROUNDWATER	362	377	326	352	523	603	583	487	369	567	380	0	4929
IMPORT + S1 & S2													
NEWHALL SYSTEM													
N-3	8	30	10	41	110	78	165	260	245	34	92		1073
CASTAIC SYSTEM													
N-1	25	27	36	20	45	36	42	54	123	39	54		501
PINETREE SYSTEM													
N-2	102	119	88	108	199	216	239	245	217	198	157		1888
TESORO SYSTEM													
N-4	53	56	43	57	120	268	436	440	378	313	187		2351
TOTAL IMPORT + S1 & S2	188	232	177	226	475	597	882	999	963	584	490	0	5813
TOTAL GROUNDWATER (INCLUDES S1 & S2)	362	377	326	352	523	603	583	487	369	567	380	0	4929
TOTAL IMPORT (NO S1 & S2)	117	167	109	158	408	531	815	931	897	545	443	0	5121
TOTAL PRODUCTION (GW + IMPORT)	479	544	434	510	931	1134	1398	1418	1266	1111	823	0	10050
% BY SOURCE													
GROUNDWATER	76%	69%	75%	69%	56%	53%	42%	34%	29%	51%	46%		49%
IMPORT	24%	31%	25%	31%	44%	47%	58%	66%	71%	49%	54%		51%

**SANTA CLARITA WATER DIVISION
WATER PRODUCTION 2020 (ACRE-FEET)**

GROUNDWATER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
LOST CANYON NO.2	36	2	0	0	26	31	46	40	44	47	44		316
LOST CANYON NO.2A	70	45	13	18	62	64	87	61	100	107	94		721
SAND CANYON	80	50	15	20	66	60	76	66	54	100	99		686
MITCHELL 5A	0	0	0	0	0	0	0	0	0	0	0		0
MITCHELL 5B	0	0	1	1	0	0	0	0	0	0	0		2
SIERRA	7	18	6	11	13	8	0	0	0	0	0		63
NORTH OAKS EAST	0	0	0	0	0	0	0	0	0	0	0		0
NORTH OAKS CENTRAL	1	3	1	0	0	0	0	0	0	0	0		5
NORTH OAKS WEST	0	0	0	0	0	0	0	0	0	0	0		0
HONBY	1	15	0	0	0	0	0	0	0	0	0		16
GUIDA	24	46	0	23	69	52	69	54	54	62	37		490
CLARK	17	29	1	0	0	0	0	0	0	0	0		47
SANTA CLARA	1	20	3	0	0	0	0	0	0	0	0		24
VALLEY CENTER	0	0	0	0	0	0	0	0	0	0	0		0
TOTAL ALLUVIUM	237	228	40	73	236	215	278	221	252	316	274	0	2370
SAUGUS WELLS S1 & S2	194	178	187	185	182	182	184	184	179	106	129		1890
TOTAL GROUNDWATER	431	406	227	258	418	397	462	405	431	422	403	0	4260
IMPORT + S1 & S2	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
SC-1 BOUQUET	129	99	161	164	184	191	233	287	346	320	249		2363
SC-2 HONBY	174	260	211	225	360	324	2	0	0	0	0		1555
SC-3 WILEY	97	103	93	112	148	153	170	176	155	135	100		1443
SC-4 HONBY #2	211	94	161	224	373	432	631	637	580	535	467		4345
SC-5 RIO VISTA	138	176	111	116	238	226	298	269	301	255	195		2324
SC-6 LOST CANYON	76	104	64	90	170	173	199	231	142	84	100		1433
SC-7	104	128	46	42	105	199	410	425	360	303	226		2348
SC-8	130	184	157	164	309	334	380	419	359	393	206		3035
SC-9	93	89	32	47	90	103	197	237	233	203	125		1449
SC-10	25	55	23	20	52	71	74	54	93	30	40		539
SC-11	1	2	1	1	1	0	1	0	0	0	0		5
SC-12	10	87	150	155	169	181	146	150	121	121	105		1396
SC-13	20	36	3	8	157	166	109	231	101	89	95		1015
TOTAL IMPORT + S1 & S2	1207	1,416	1,212	1,368	2,358	2,552	2,849	3,117	2,792	2,470	1,907	0	23,248
METERING ADJUSTMENT	-6.7	0.01	0	0	0	0	0	0	0	0	0		-7
NET IMPORT + S1 & S2	1,201	1,416	1,212	1,368	2,358	2,552	2,849	3,117	2,792	2,470	1,907	0	23,241
TOTAL GROUNDWATER (INCLUDES S1 & S2)	431	406	227	258	418	397	462	405	431	422	403	0	4260
TOTAL IMPORT (NO S1 & S2)	1,014	1,238	1,025	1,183	2,176	2,370	2,665	2,932	2,613	2,364	1,779	0	21,358
TOTAL PRODUCTION (GW + IMPORT)	1,444	1,644	1,252	1,441	2,594	2,767	3,127	3,338	3,044	2,786	2,181	0	25,618
% BY SOURCE													
GROUNDWATER	30%	25%	18%	18%	16%	14%	15%	12%	14%	15%	18%		17%
IMPORT	70%	75%	82%	82%	84%	86%	85%	88%	86%	85%	82%		83%
VALLEY CENTER (NON-SYSTEM) *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.46	3.48		3.94
HONBY (NON-SYSTEM) *						0.23	0.00	0.00	0.00	0.00	0.00		0.23
MITCHELL 5B (NON-SYSTEM) *							0.54	0.30	0.00	0.00	0.24		1.08
NORTH OAKS CENTRAL (NON-SYSTEM) *										0.14	0.48		0.62

* Not used in the calculation for % by Source

VALENCIA WATER DIVISION
WATER PRODUCTION 2020 (ACRE-FEET)

ALLUVIUM	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
D	20	56	20	23	71	59	36	58	52	48	19		462
E15	25	103	33	39	92	90	84	102	90	88	86		832
N	53	69	19	0	0	0	0	0	0	0	0		141
N7	29	120	9	0	0	0	0	0	0	0	0		157
N8	89	108	14	0	0	0	0	0	0	0	0		211
Q2	0	0	0	0	0	0	0	0	0	0	0		0
T7	3	19	2	0	0	0	0	0	0	0	0		23
U6	1	7	5	47	83	0	0	0	0	0	0		142
U4	1	4	0	0	0	0	0	0	0	0	0		6
S6	0	0	0	0	0	0	0	0	0	0	0		0
S7	13	31	0	0	0	0	0	0	0	0	0		44
S8	9	14	6	0	0	0	0	0	0	0	0		29
W11	40	29	18	36	55	68	91	86	67	34	7		531
W9	51	87	57	70	93	102	64	58	59	17	14		671
W10	75	63	10	0	0	0	0	0	0	0	0		148
TOTAL ALLUVIUM	408	711	192	214	393	318	275	305	268	187	127	0	3397
SAUGUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
159	0	1	0	1	4	7	4	5	4	2	1		29
160 - DOM	1	2	2	2	2	3	2	0	0	0	3		18
160 - VGC*	20	29	11	38	73	74	85	69	45	80	31		555
201	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
206	68	98	95	74	58	115	96	175	77	152	45		1052
207	78	116	62	109	150	139	192	89	158	63	94		1251
TOTAL SAUGUS	167	246	170	224	287	338	379	339	285	297	173	0	2904
IMPORT WATER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
V-1	143	65	126	146	197	213	254	237	239	213	182		2015
V-2	139	284	138	211	514	419	320	303	191	194	85		2797
V-4	105	1	68	90	402	327	229	224	207	158	182		1994
V-5	246	161	179	188	276	323	425	443	461	396	444		3543
V-6	85	198	134	133	185	136	68	53	77	123	126		1318
V-7	23	3	15	12	78	105	240	235	208	193	168		1280
V-8	217	50	259	285	520	664	780	761	733	639	465		5371
TOTAL IMPORT	957	762	919	1,066	2,171	2,186	2,316	2,257	2,115	1,915	1,653	0	18,318
TOTAL GROUNDWATER	575	956	362	438	680	656	654	644	553	484	300	0	6,301
TOTAL IMPORT	957	762	919	1,066	2,171	2,186	2,316	2,257	2,115	1,915	1,653	0	18,318
TOTAL PRODUCTION	1,531	1,718	1,282	1,505	2,851	2,842	2,970	2,901	2,668	2,399	1,952	0	24,619
% BY SOURCE													
GROUNDWATER	37%	55%	28%	27%	22%	21%	20%	20%	19%	17%	14%		24%
IMPORT WATER	63%	45%	72%	73%	78%	79%	80%	80%	81%	83%	86%		76%
RECYCLED WATER	10	22	8	22	64	70	76	68	64	18	27		449
Well 201 Discharge *	107	61	108	103	102	102	111	102	104	106	103		1108
Well Q2 Non-System *	0.12	0.03	0.05	0.05	0.13	0.30	0	0.17	0.17	0	0		1.01
Well 205 Non-System *	0	0	0	0	0	0	0	0	0	0	0		0.00
Well N Non-System *	0	0	0.06	0	0	0	0	0	17.64	10.57	26.63		54.89
Well N7 Non-System *	0	0	0	0	0	0	0	0	0	15.23	30.15		45.38
Well N8 Non-System *	0	0	0	0	0	0	0	0	38.40	69.4	37.71		145.51
Well S8 Non-System *	0	0	0	0.19	0.23	0	0.68	0.21	0.11	0.60	0.39		2.41
Well W10 Non-System *	0	0	0	0.25	0.11	0.16	0.17	0.29	0.36	0.18	0.29		1.81

*Not used in the calculation for % by source

LOS ANGELES COUNTY WATERWORKS DISTRICT 36

SOURCE

TURNOUT	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	TOTAL
LA 1	0	0.0031	0	0	0	0.00	0	0	0	0	0		0.00
LA 2	0.7764	0.4818	0.3621	0.4082	0.2793	0.42	0.424	0.4389	0.3928	0.445	0.3713		4.80
TOTAL	0.7764	0.4849	0.3621	0.4082	0.2793	0.4174	0.424	0.4389	0.3928	0.445	0.3713	0.00	4.80

RAW WATER

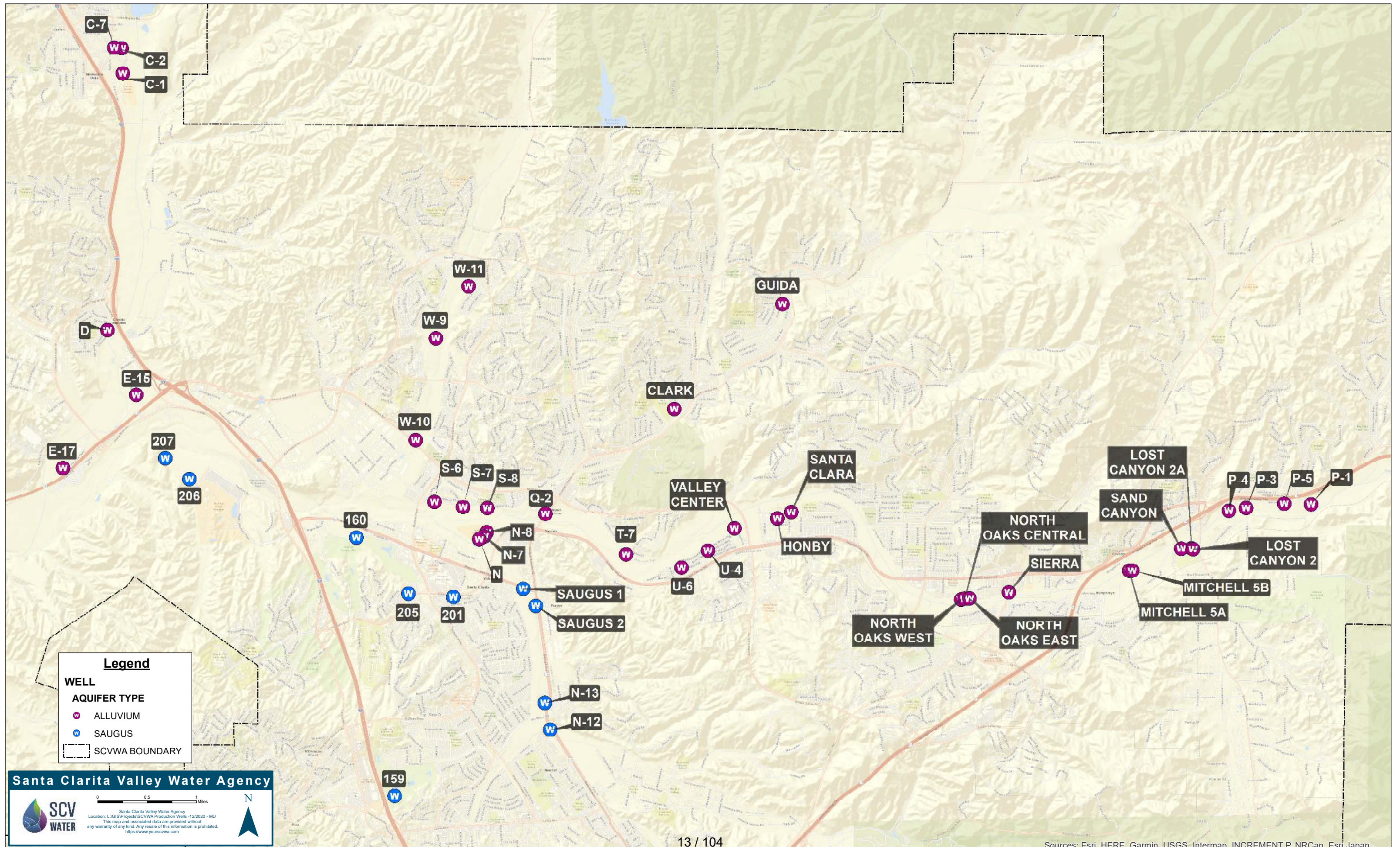
SOURCE	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	TOTAL
RVTP	1,374	2,235	2,096	2,490	4801	3445	2,950	3,013	2,662	2,314	3,302		30,682.53
ESTP	708	0	0	0	0	1706	2,906	3,187	3,050	2,571	601		14,729.40
Wells	265	243	256	253	249	249	251	252	245	145	176		2,582.63
TOTAL	2,347	2,478	2,351	2,742	5,049	5,400	6,107	6,453	5,957	5,030	4,079	0	47,994.56

S1/S2 TREATMENT

SOURCE	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	TOTAL
S1	137.13	129.09	130.51	130.97	132.2	129.15	134.3	134.95	131.29	124.05	128.45		1442.12
S2	127.54	114.13	125.05	121.57	116.52	119.61	117.1	117.00	113.86	20.85	47.325		1140.50
TOTAL	264.67	243.22	255.56	252.54	248.72	248.76	251.4	251.9556	245.15	144.9	175.77	0	2582.63

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SCVWA PRODUCTION WELLS



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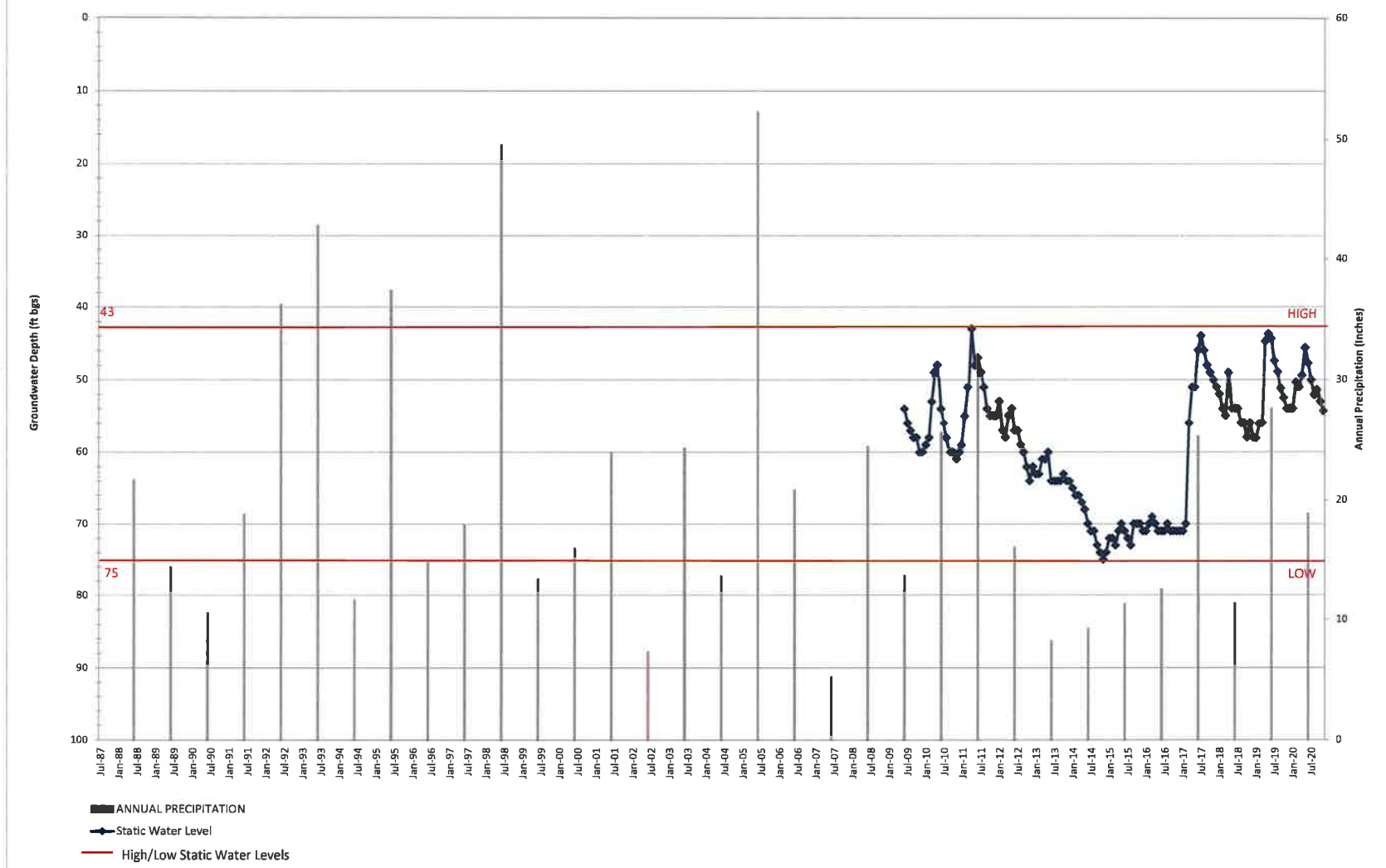
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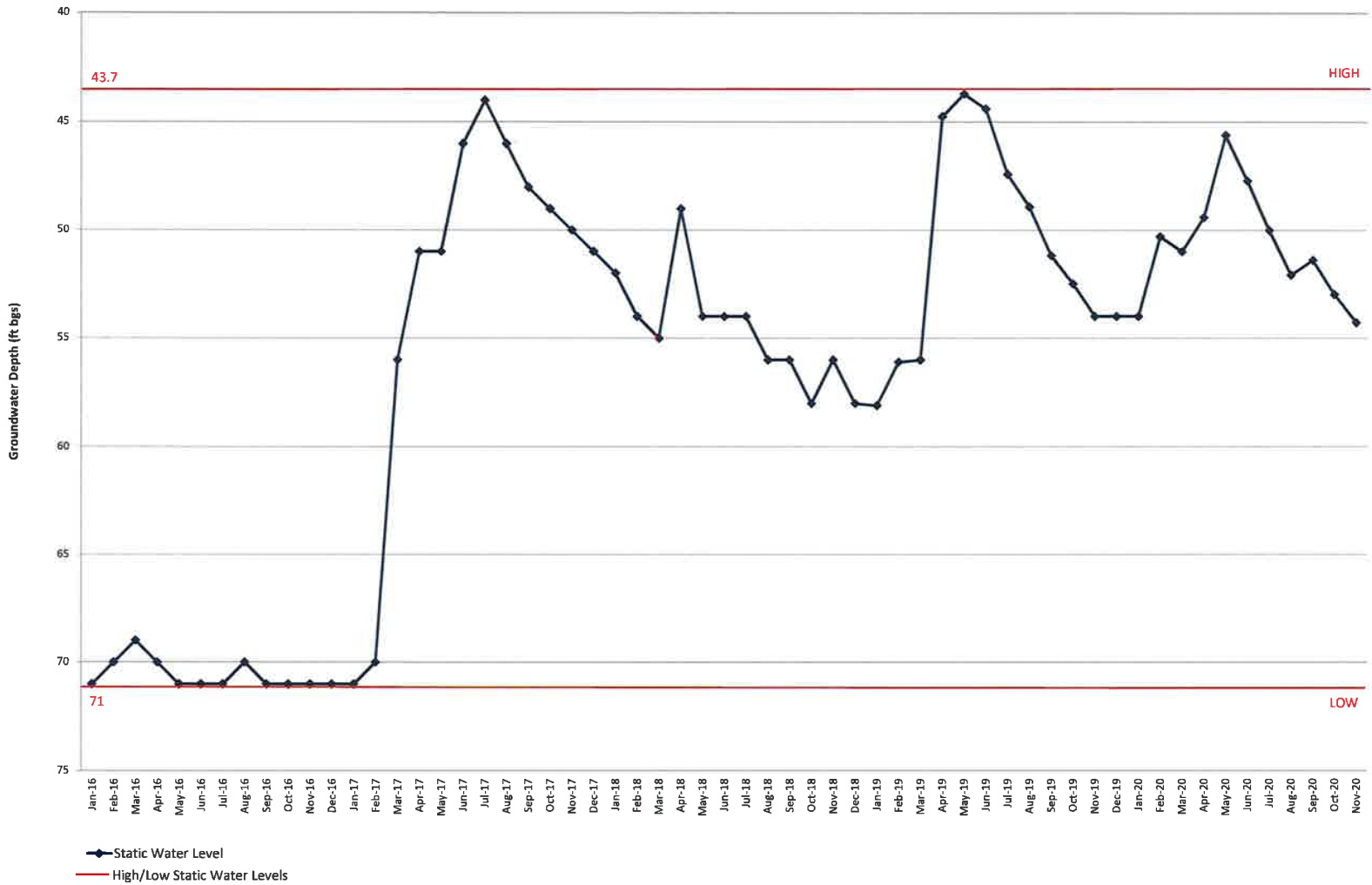
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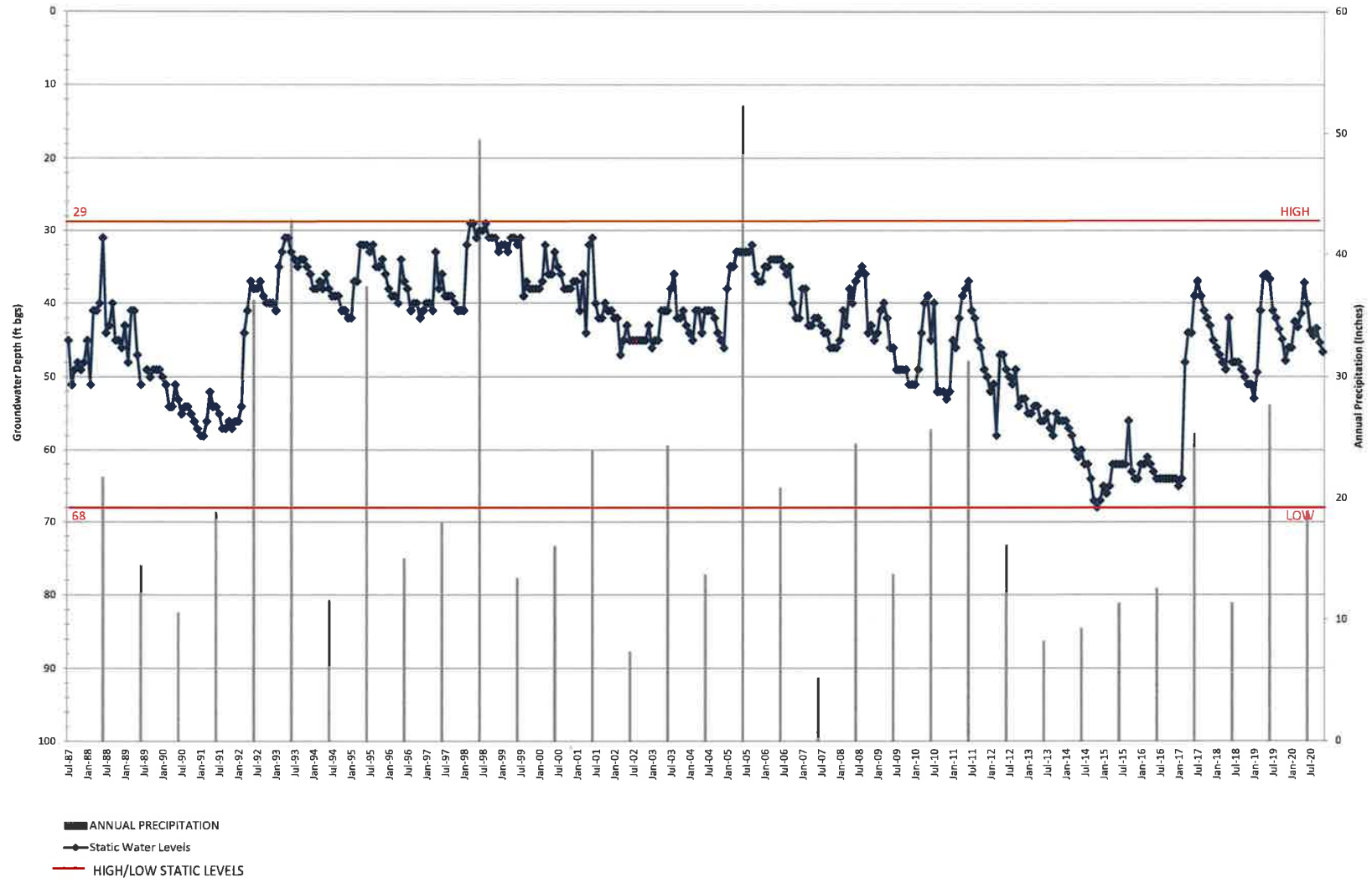
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STATIC WATER LEVEL VS PRECIPITATION

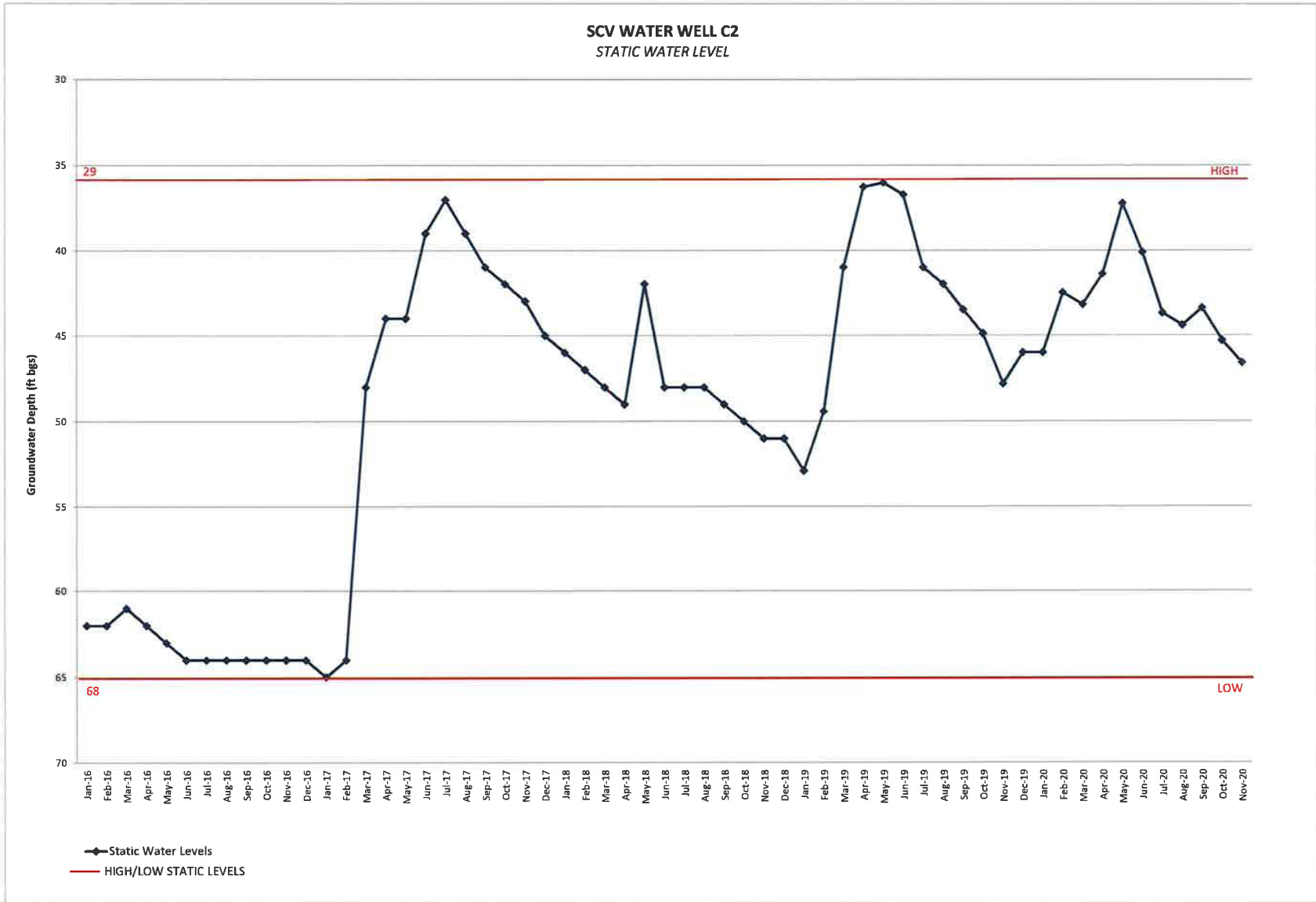


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STATIC WATER LEVEL

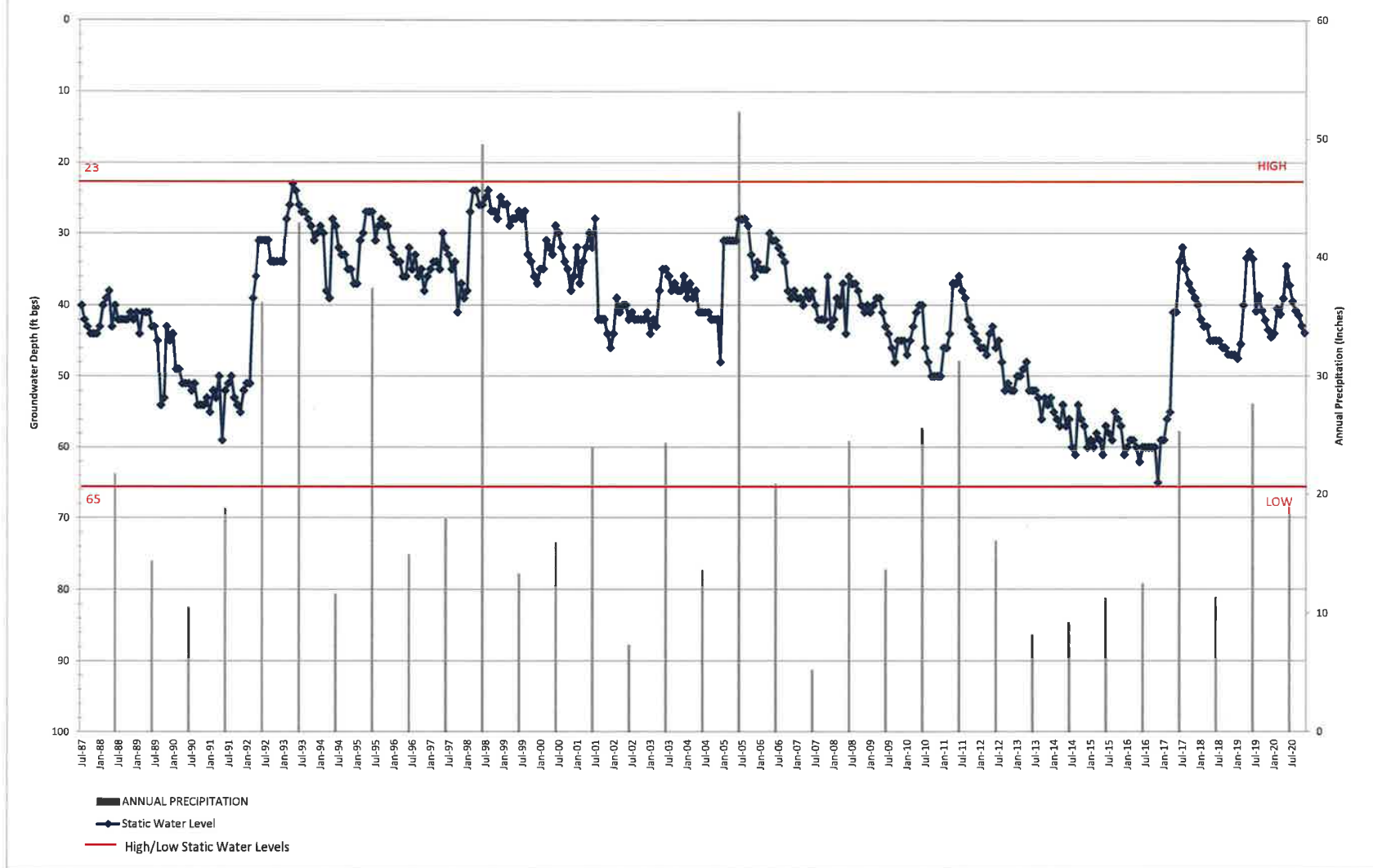


SCV WATER WELL C2
STATIC WATER LEVEL VS PRECIPITATION

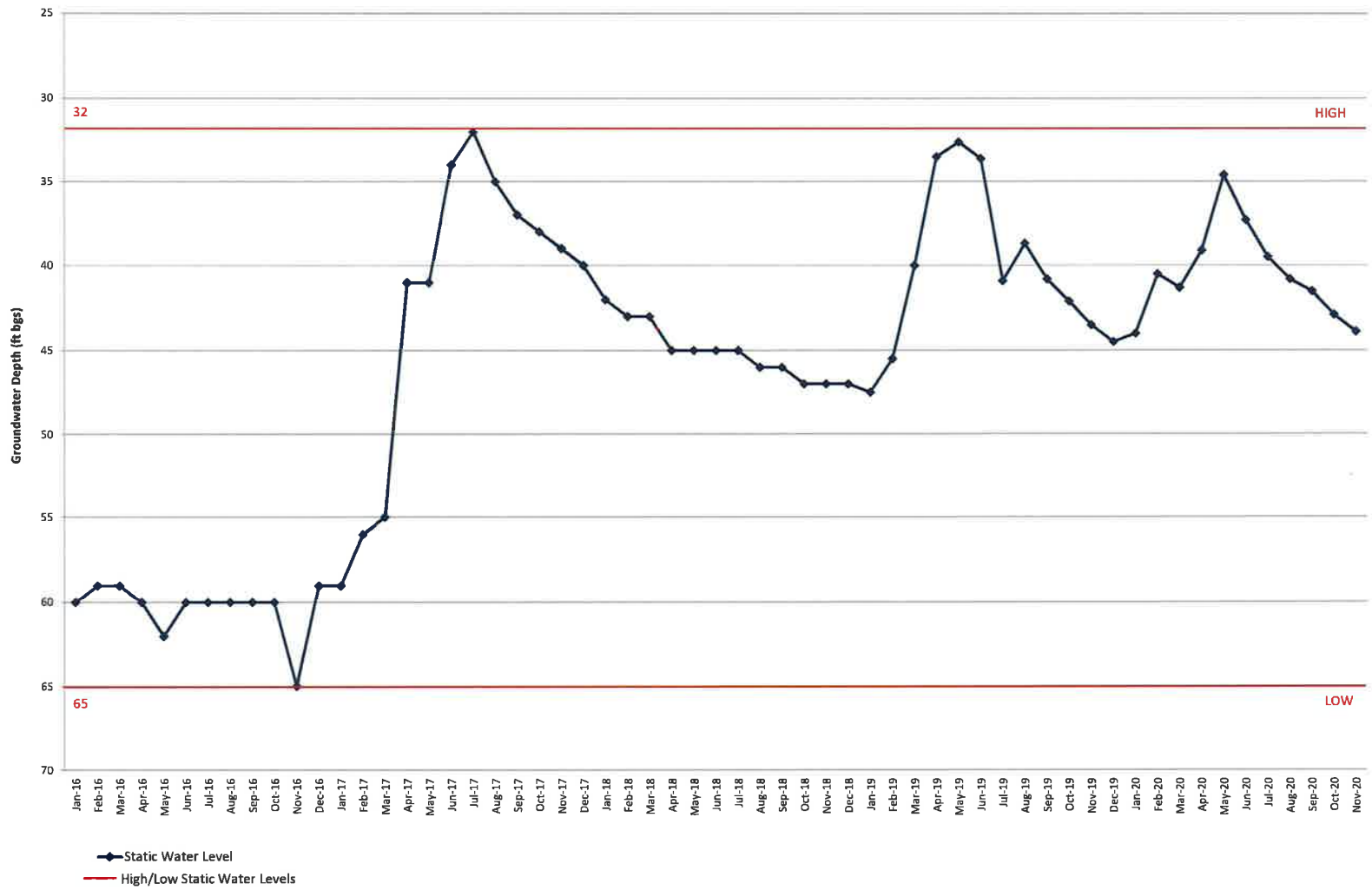




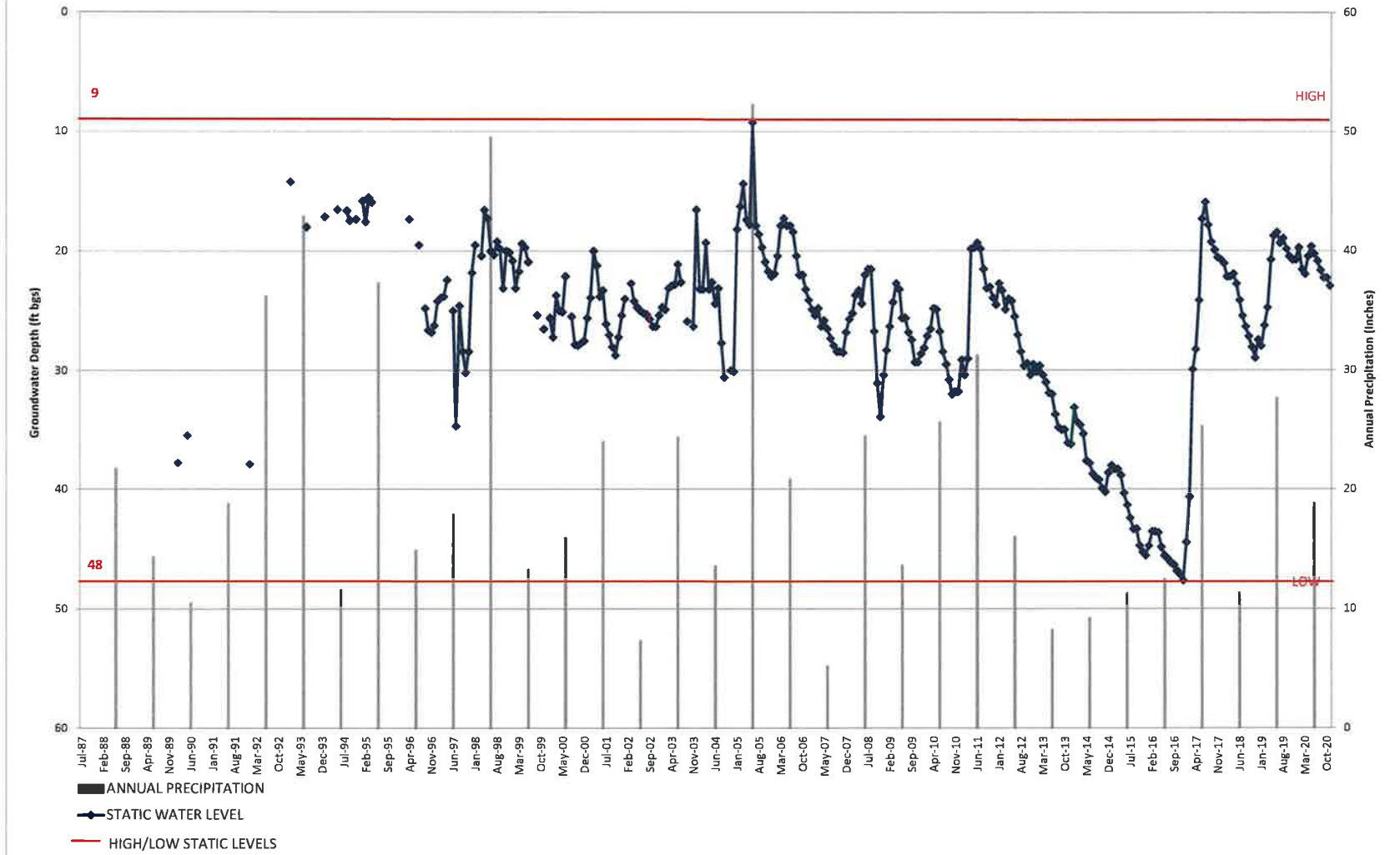
SCV WATER WELL C1
STATIC WATER LEVEL VS PRECIPITATION



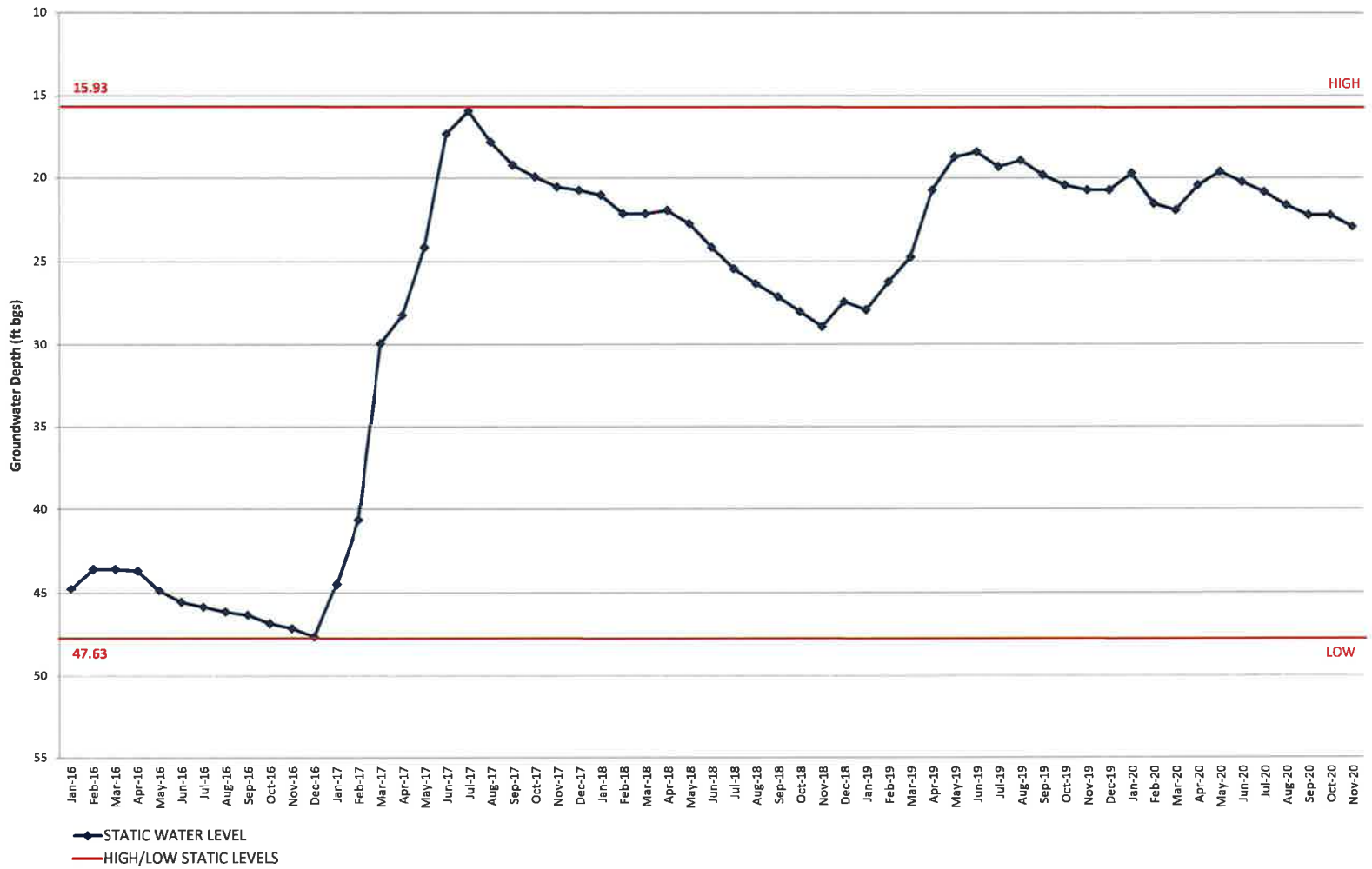
SCV WATER WELL C1
STATIC WATER LEVEL



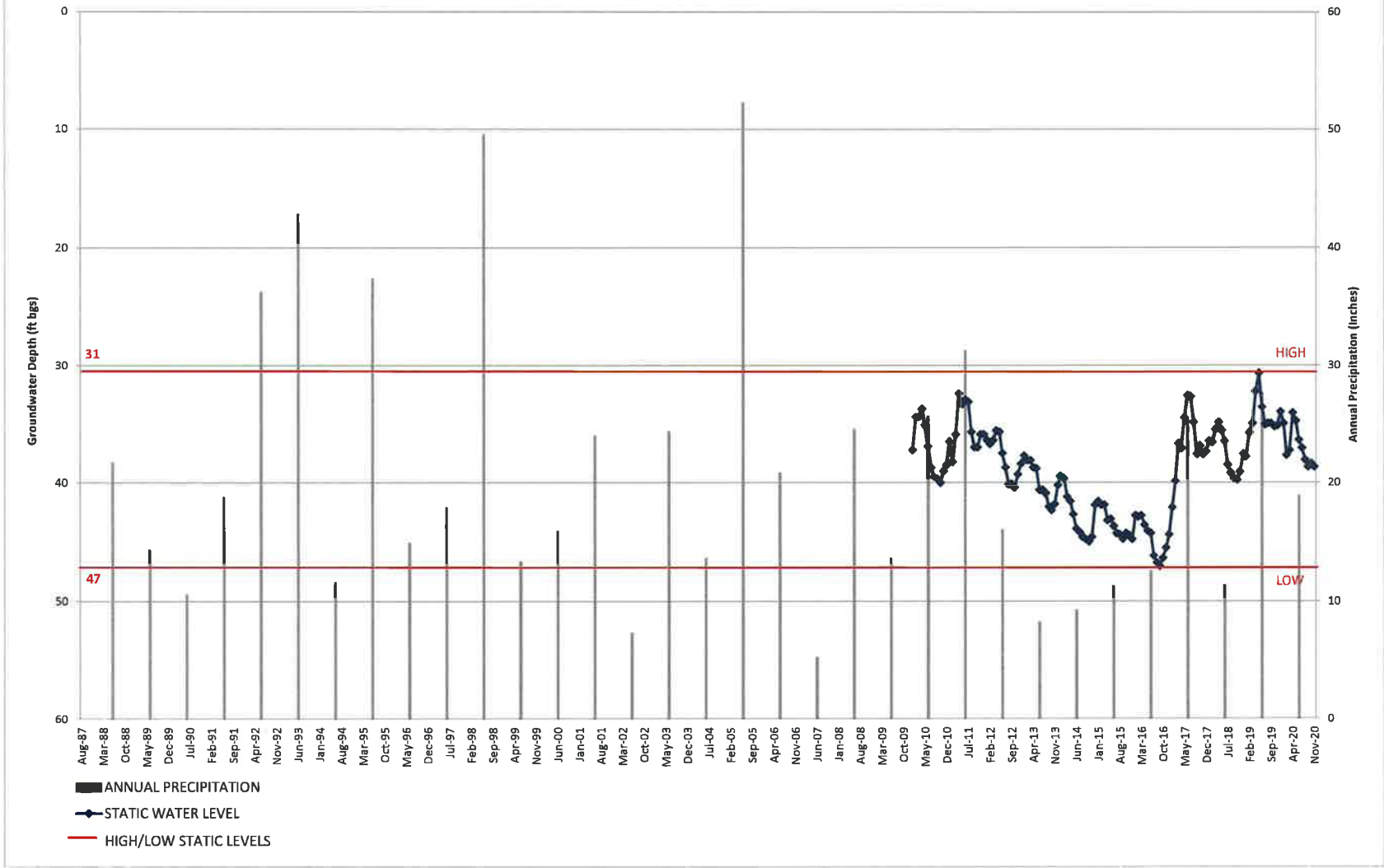
SCV WATER WELL D
 STATIC WATER LEVEL VS PRECIPITATION



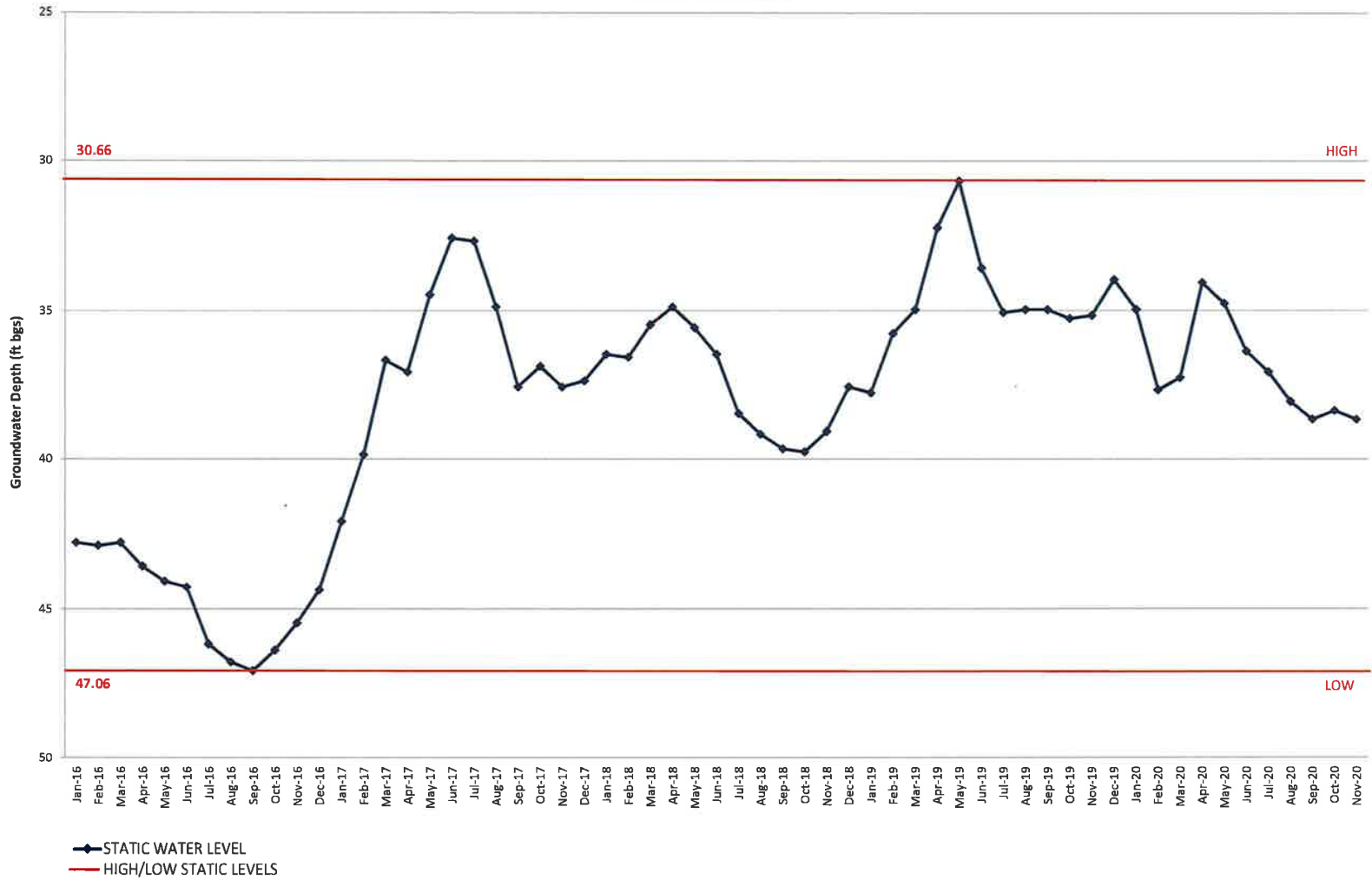
SCV WATER WELL D
STATIC WATER LEVEL



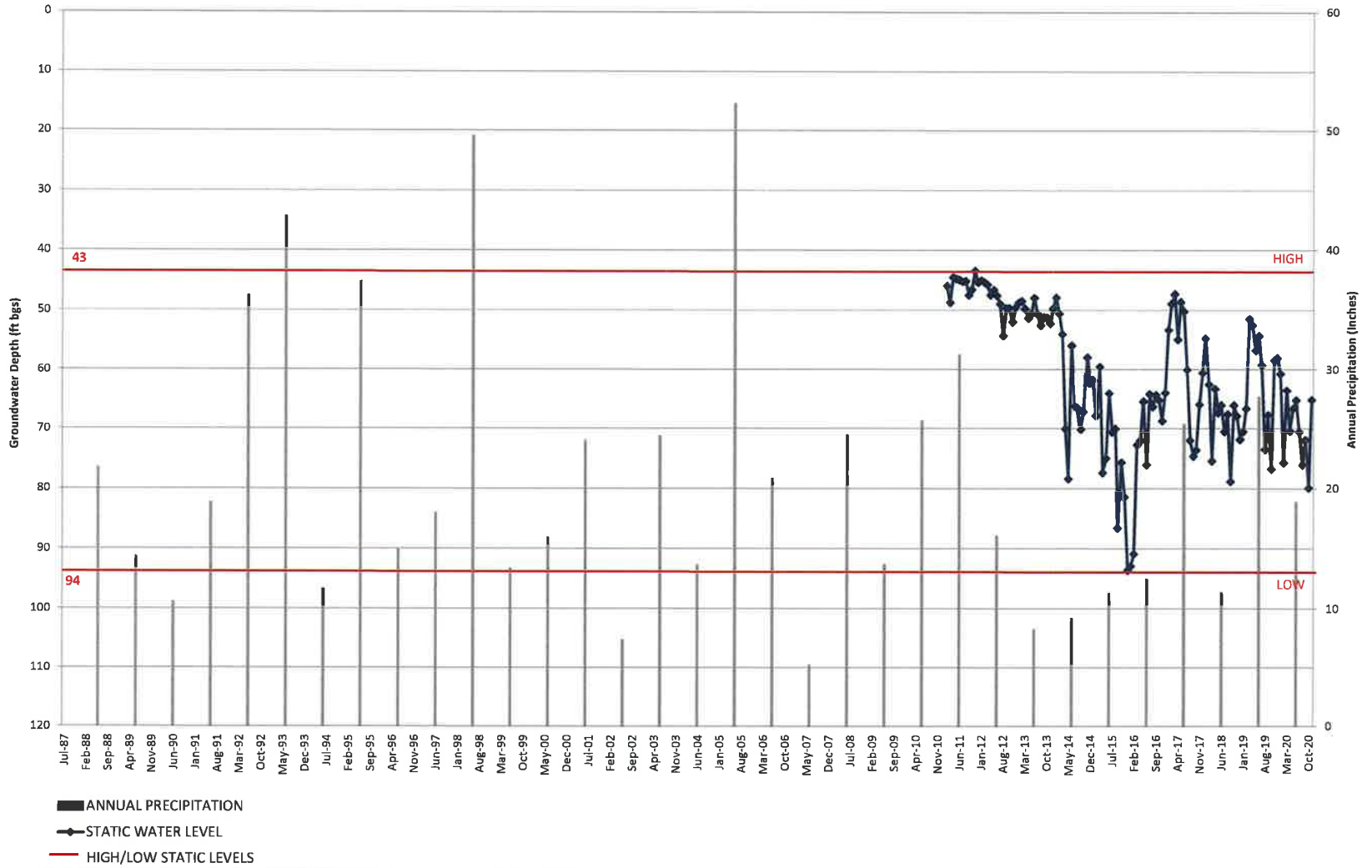
SCV WATER WELL E15
 STATIC WATER LEVEL VS. PRECIPITATION



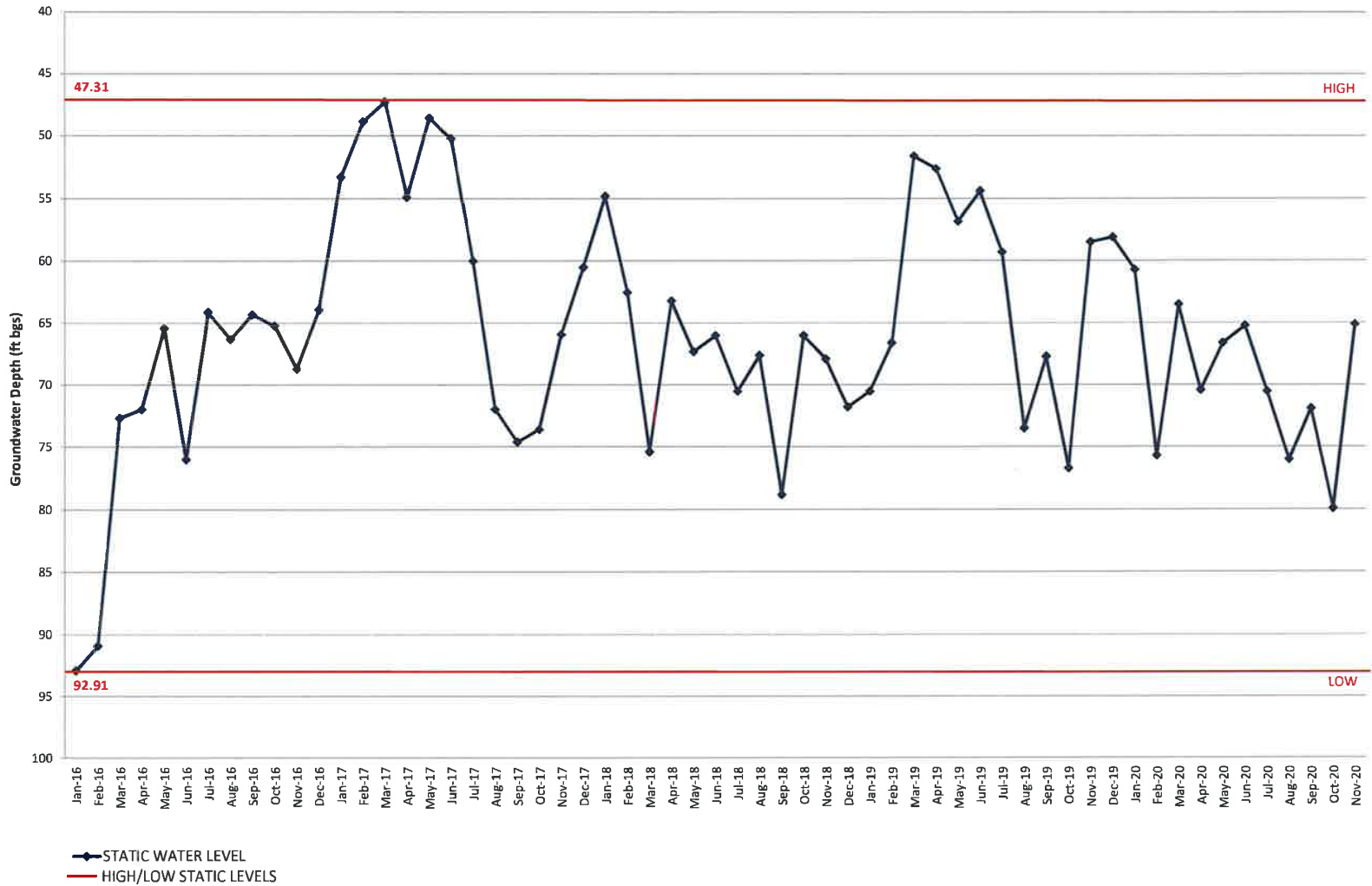
SCV WATER WELL E15
STATIC WATER LEVEL



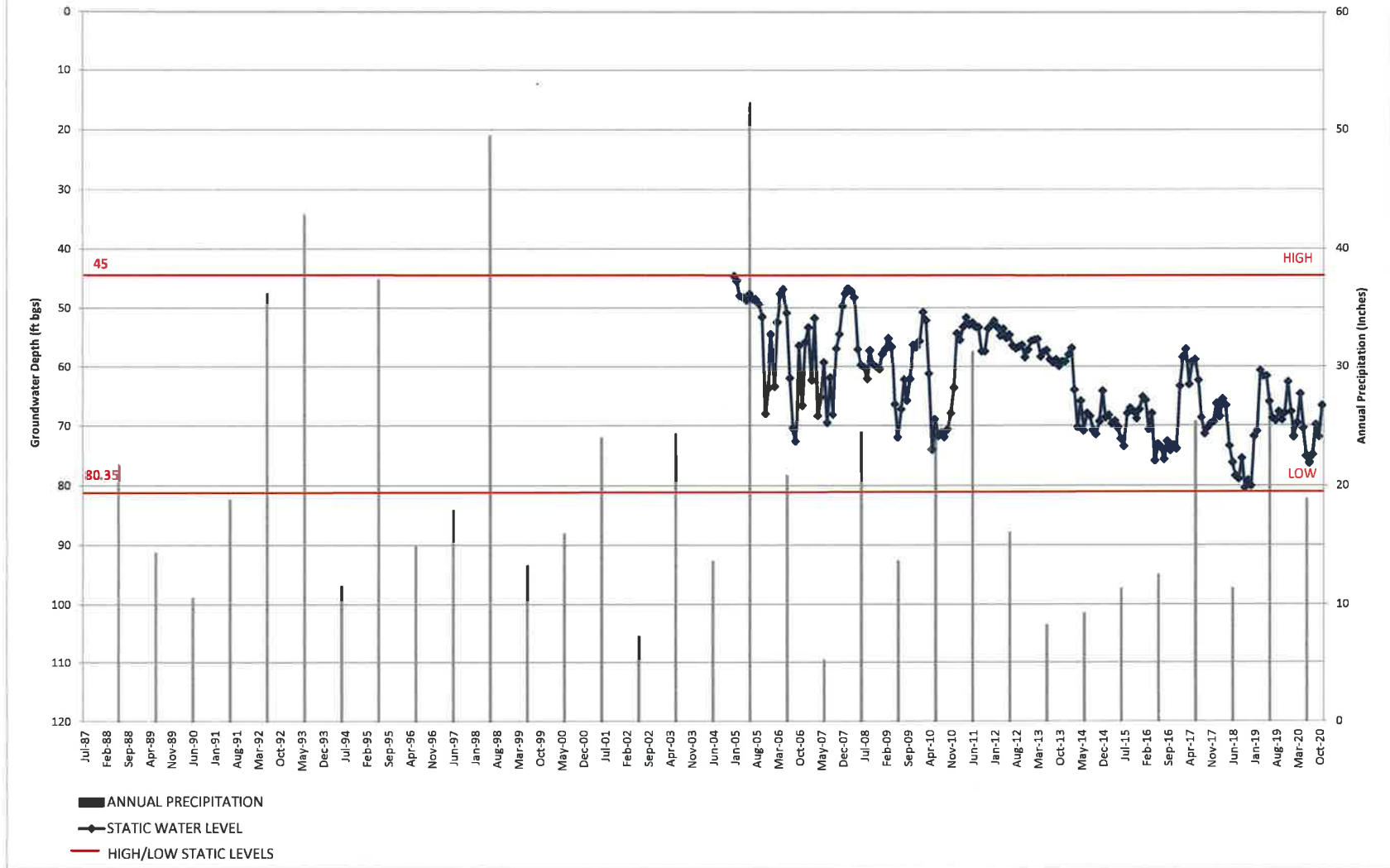
SCV WATER WELL 207
STATIC WATER LEVEL VS PRECIPITATION



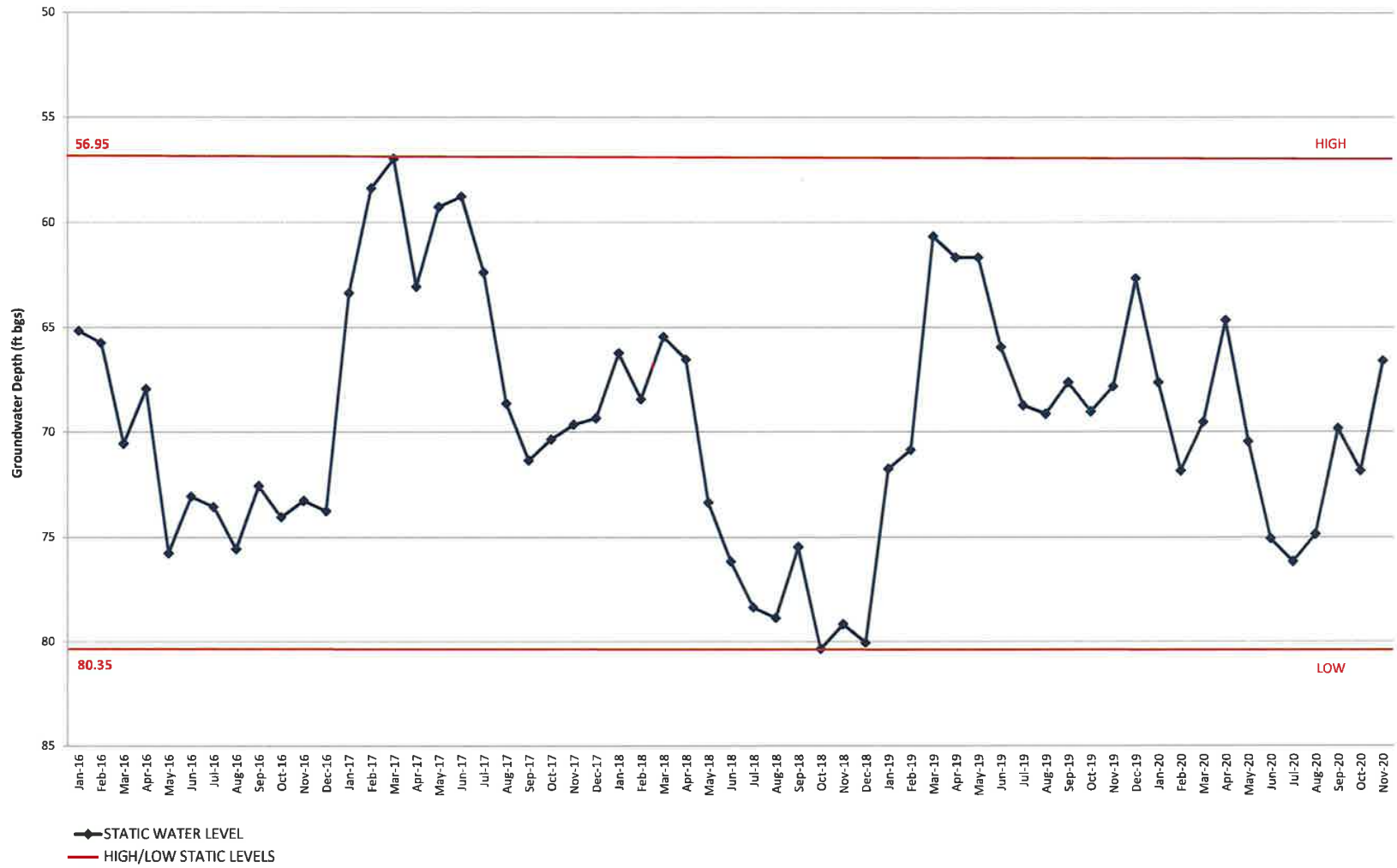
SCV WATER WELL 207
STATIC WATER LEVEL



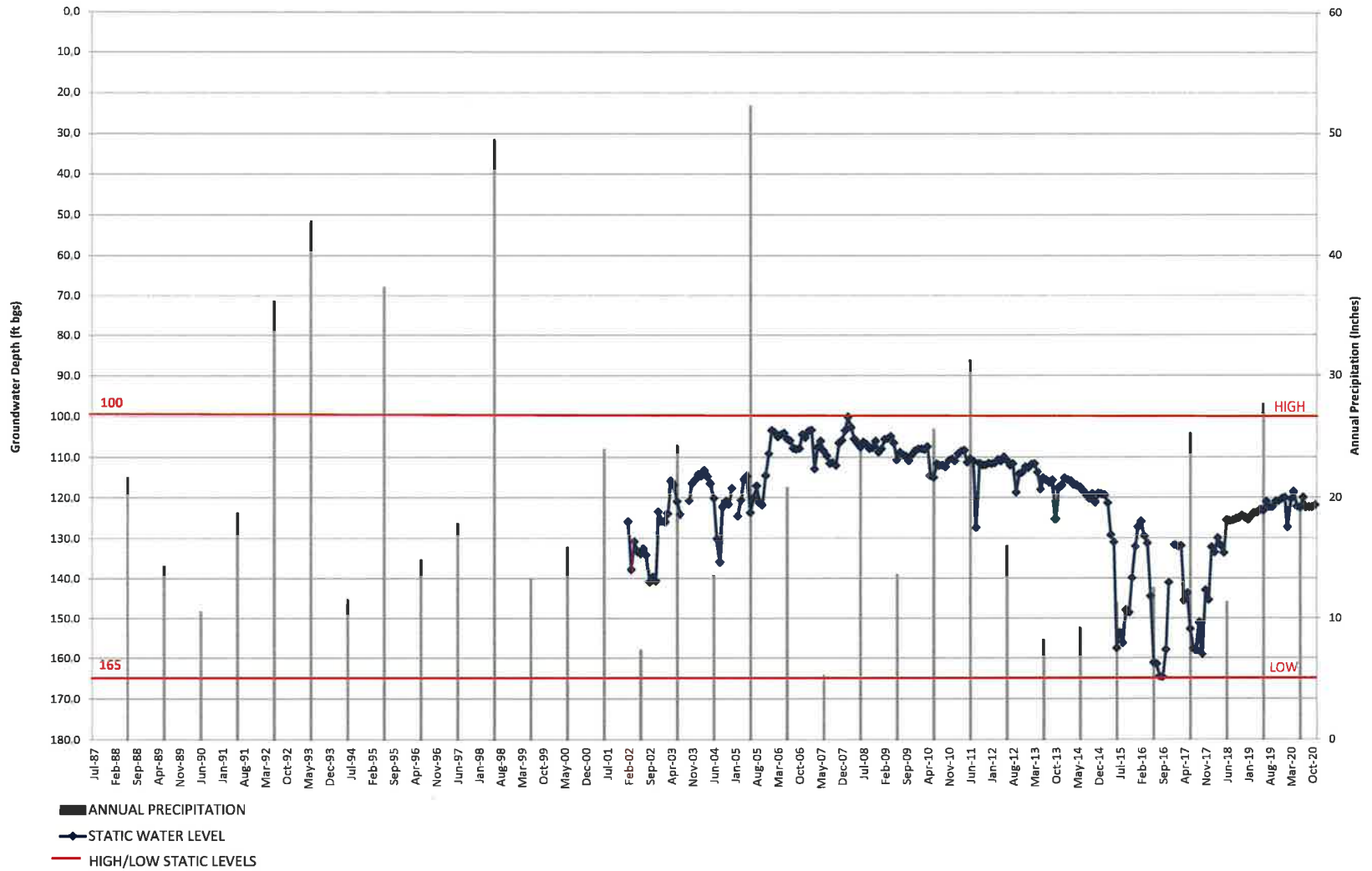
SCV WATER WELL 206
STATIC WATER LEVEL VS PRECIPITATION



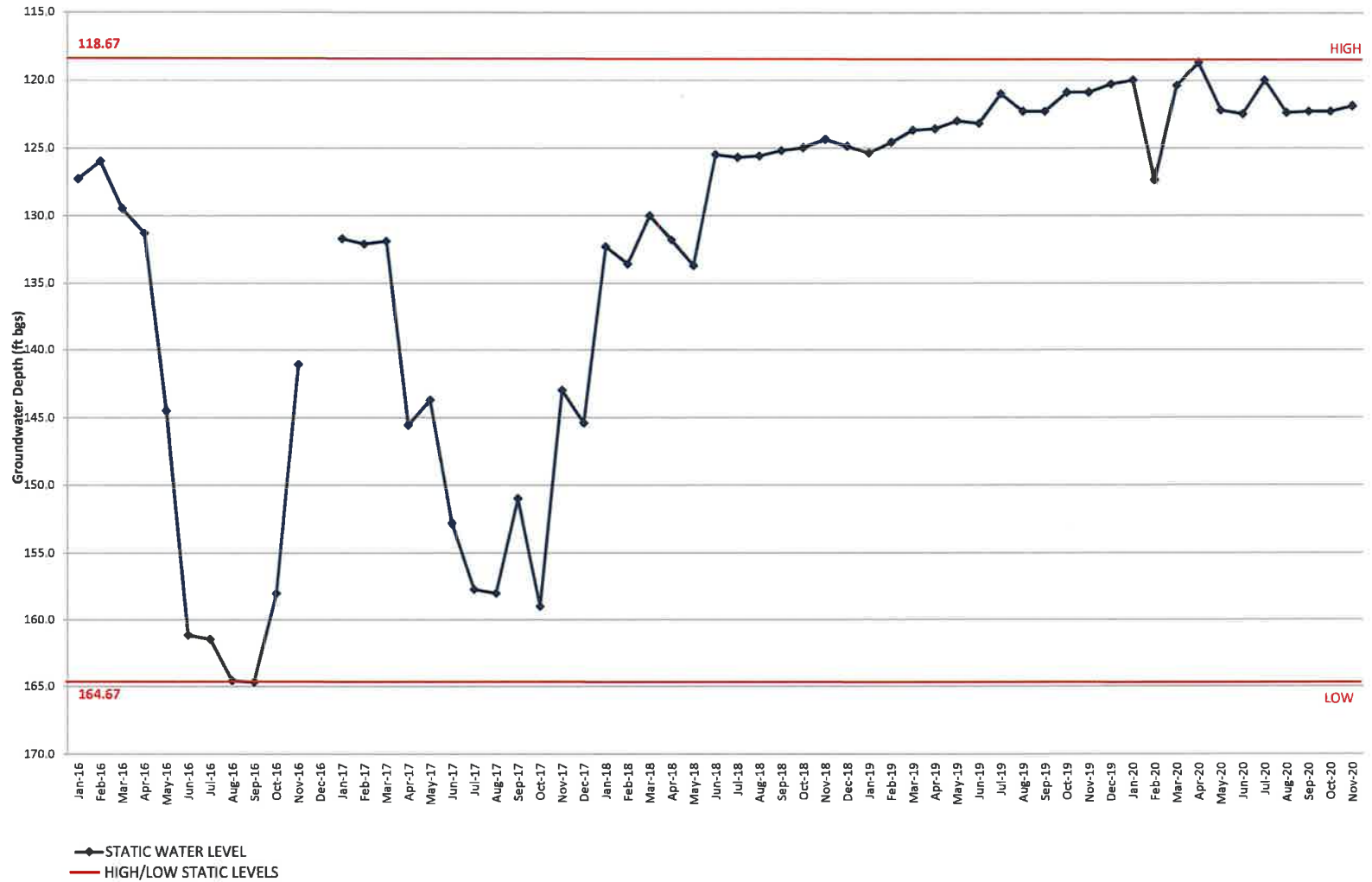
SCV WATER WELL 206
 STATIC WATER LEVEL



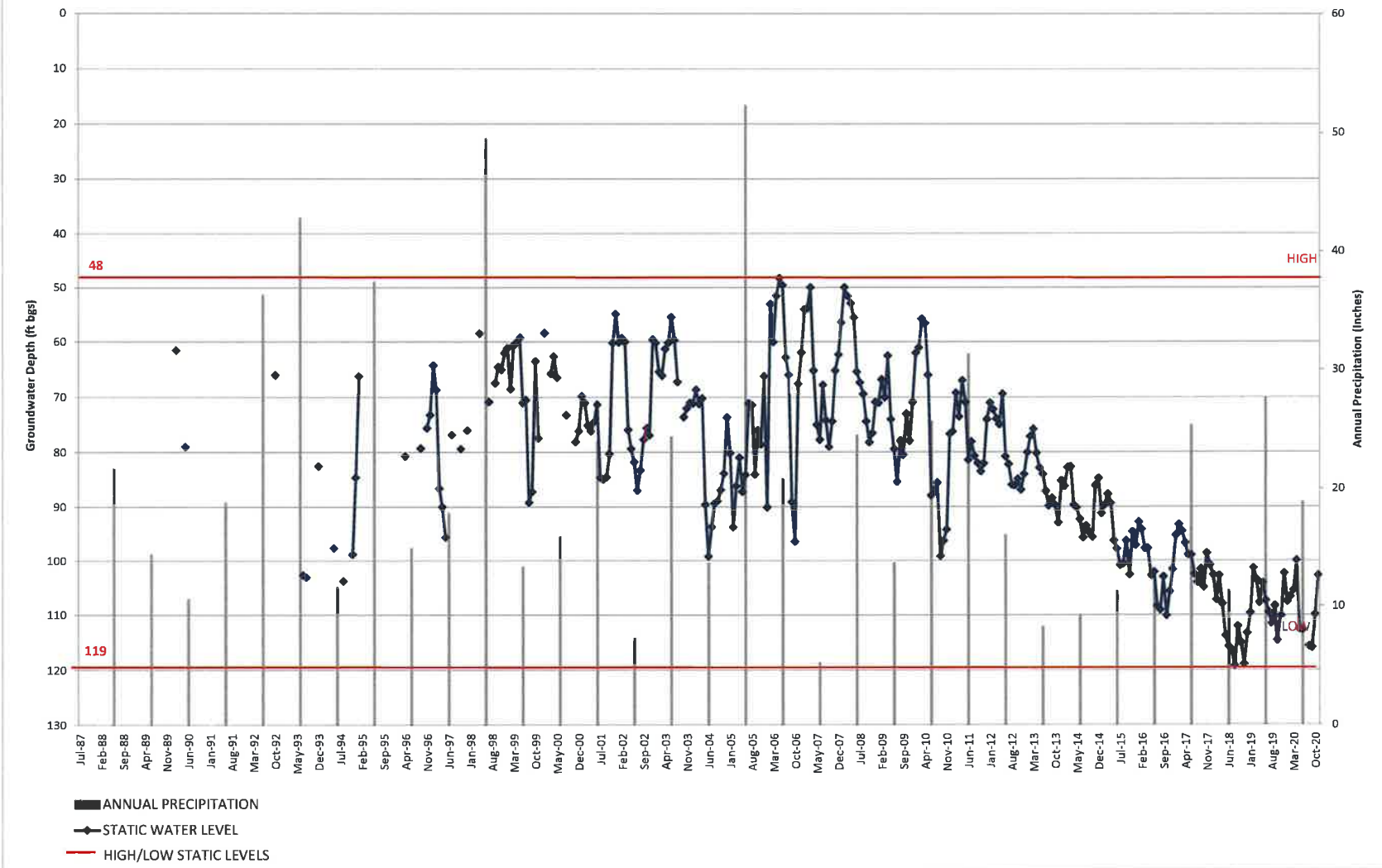
SCV WATER WELL 159
STATIC WATER LEVEL VS PRECIPITATION



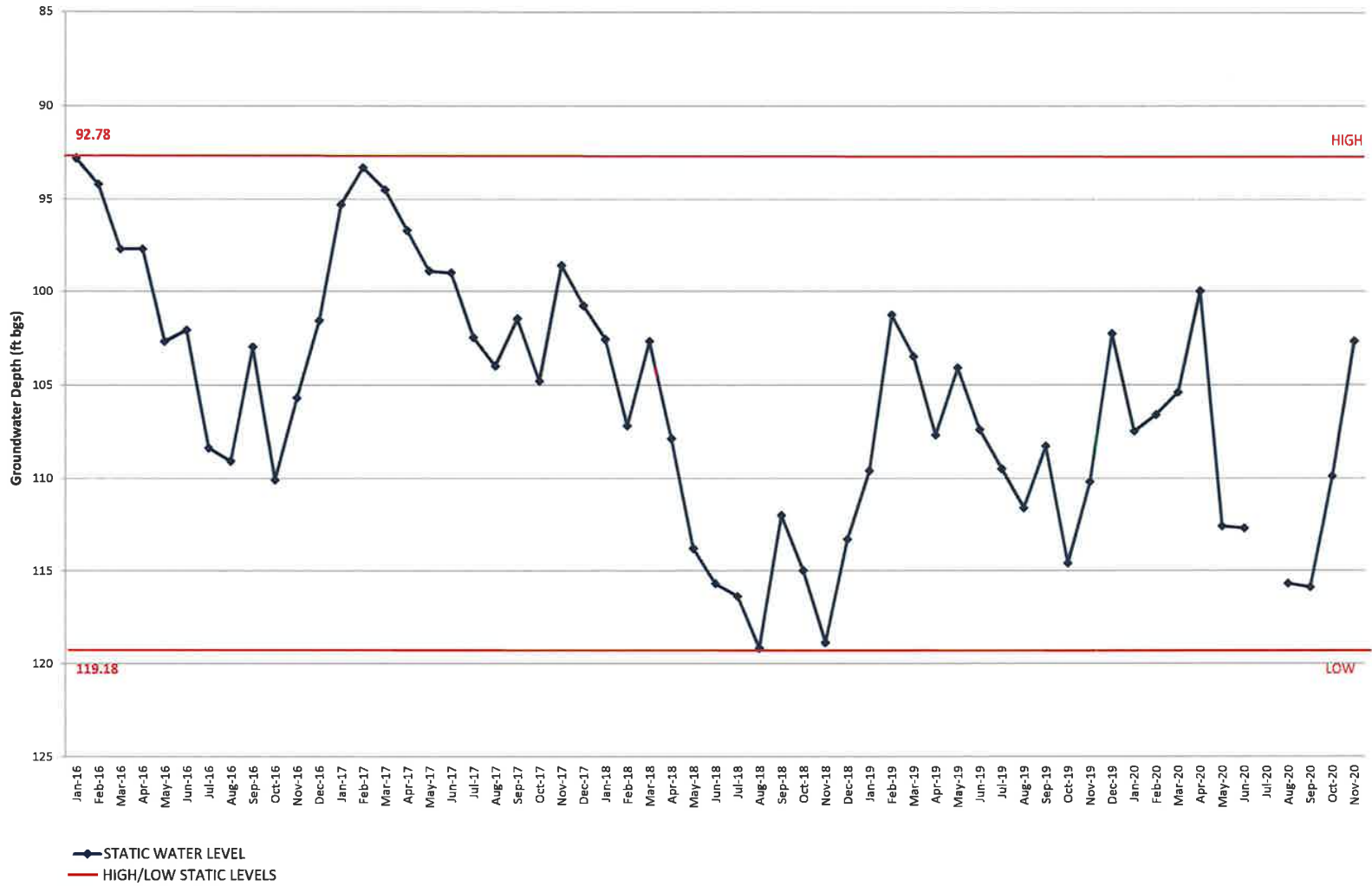
SCV WATER WELL 159
STATIC WATER LEVEL



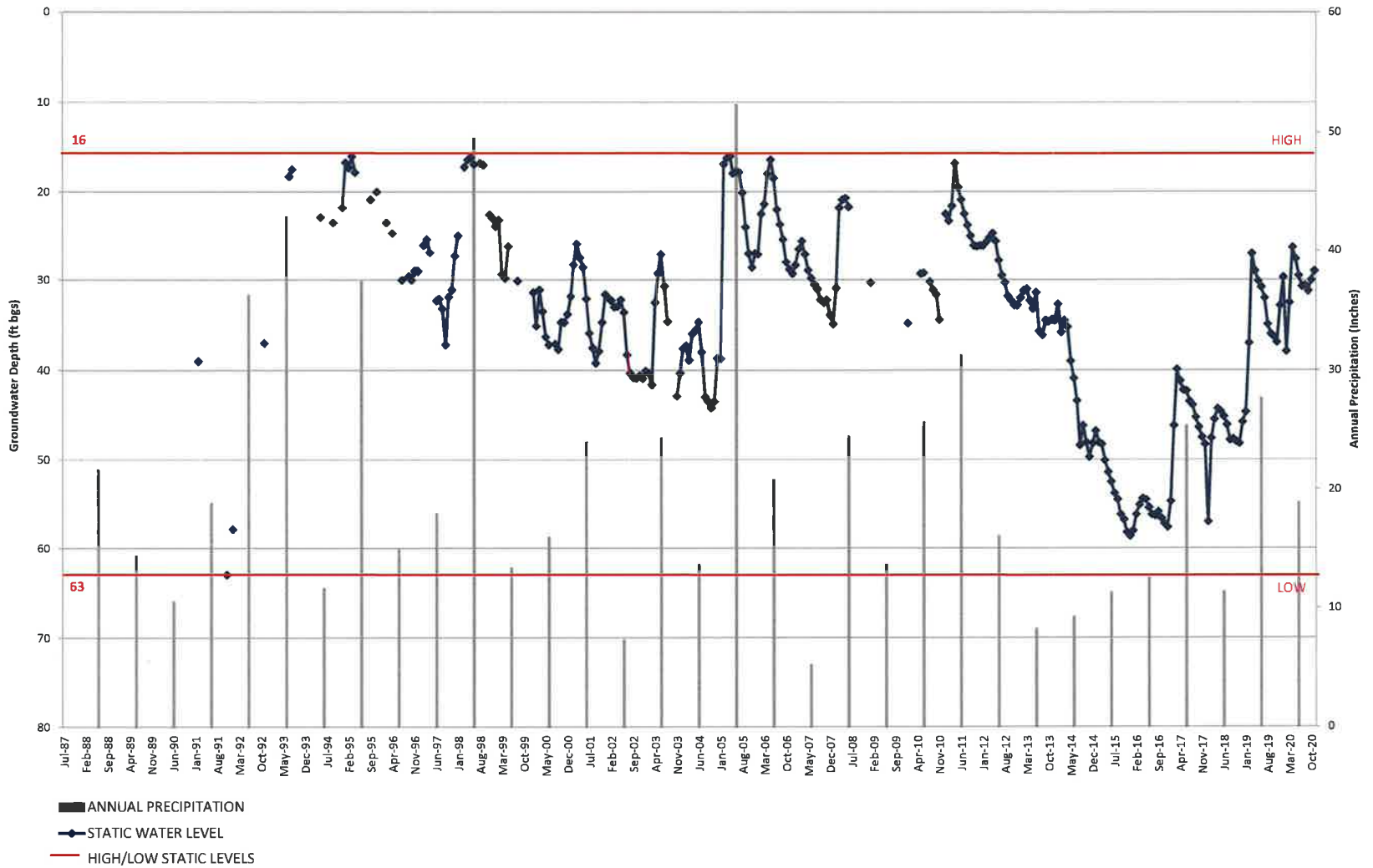
SCV WATER WELL 160
 STATIC WATER LEVEL VS PRECIPITATION



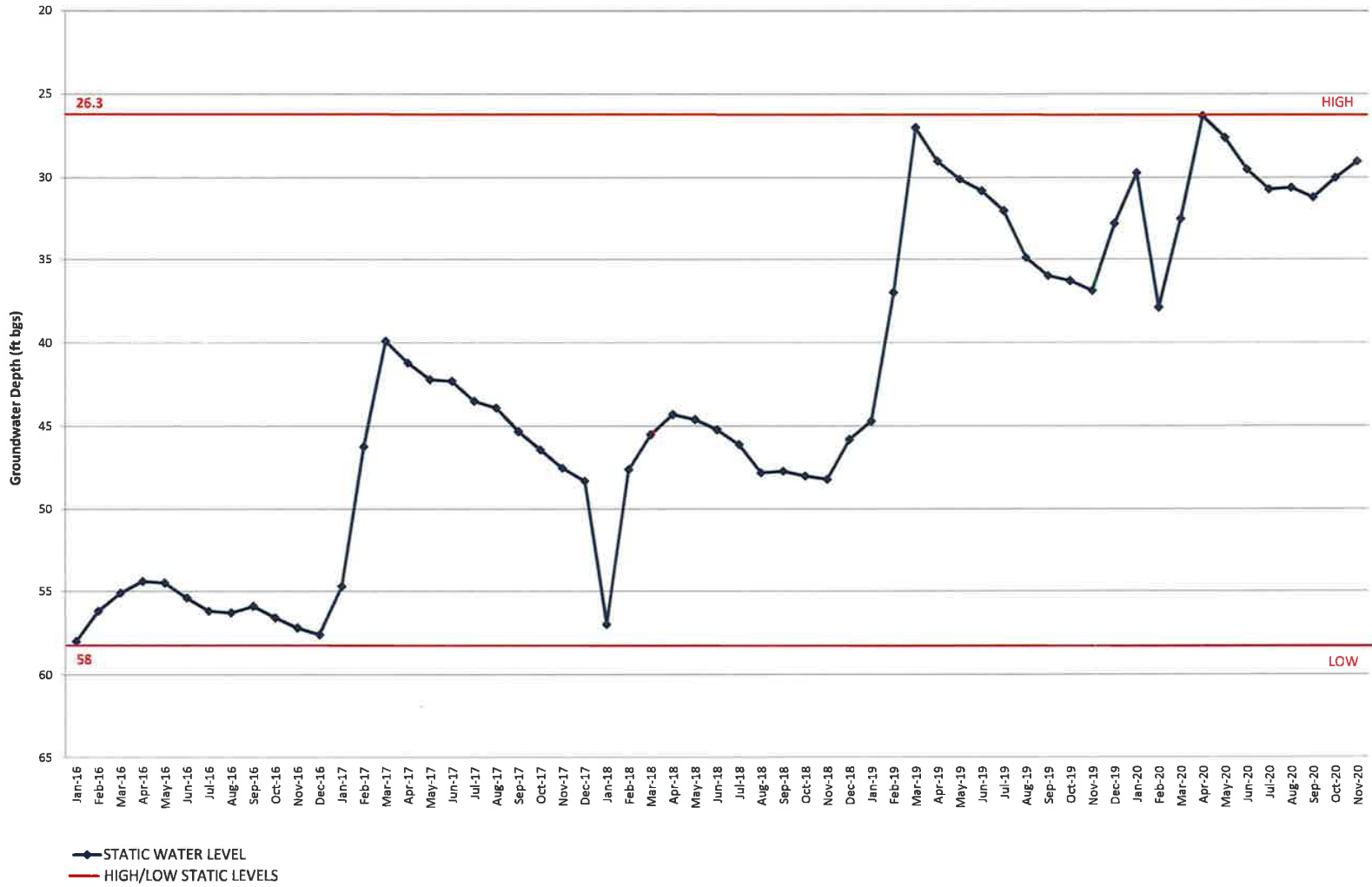
SCV WATER WELL 160
STATIC WATER LEVEL



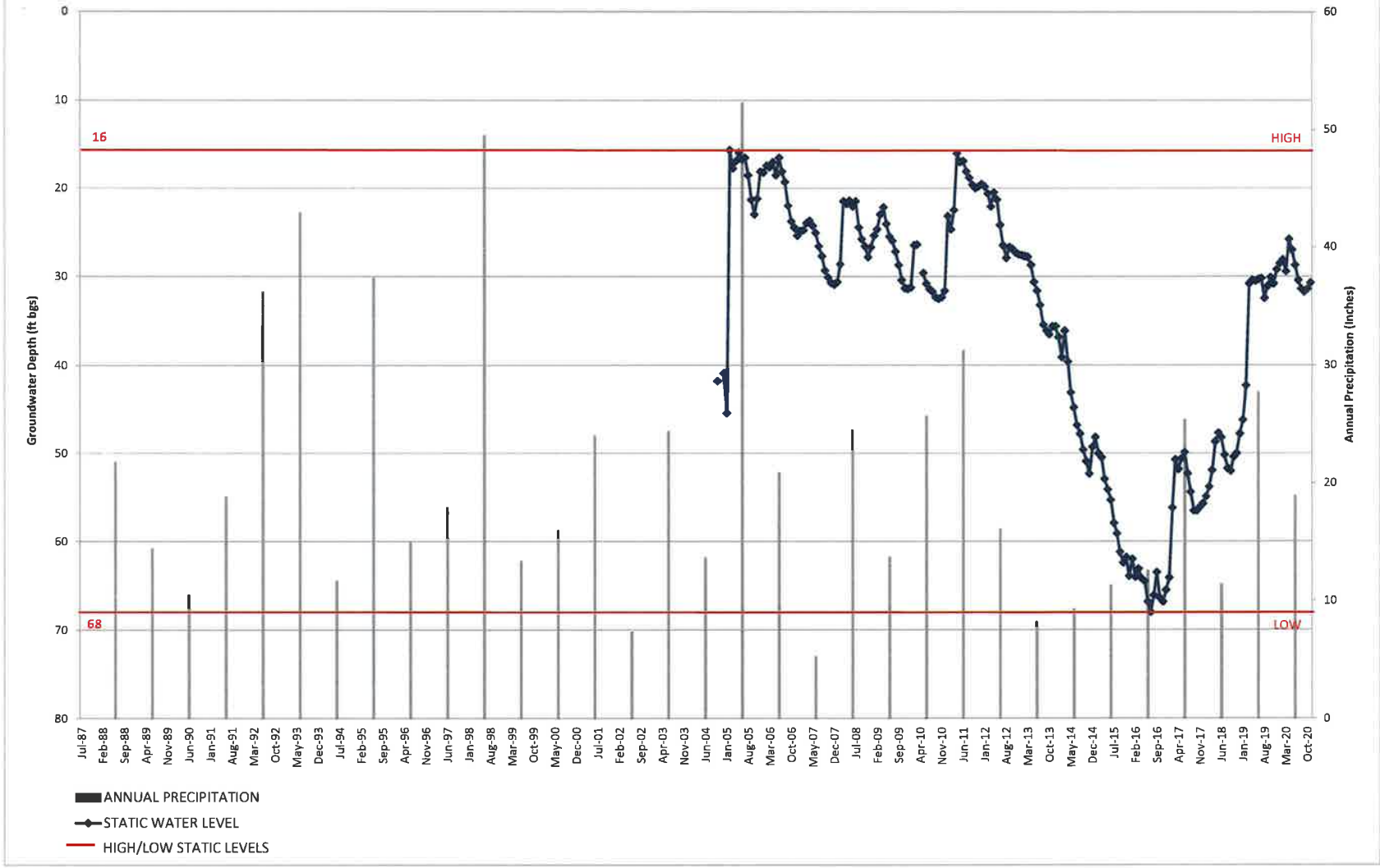
SCV WATER WELL W9
STATIC WATER LEVEL VS PRECIPITATION



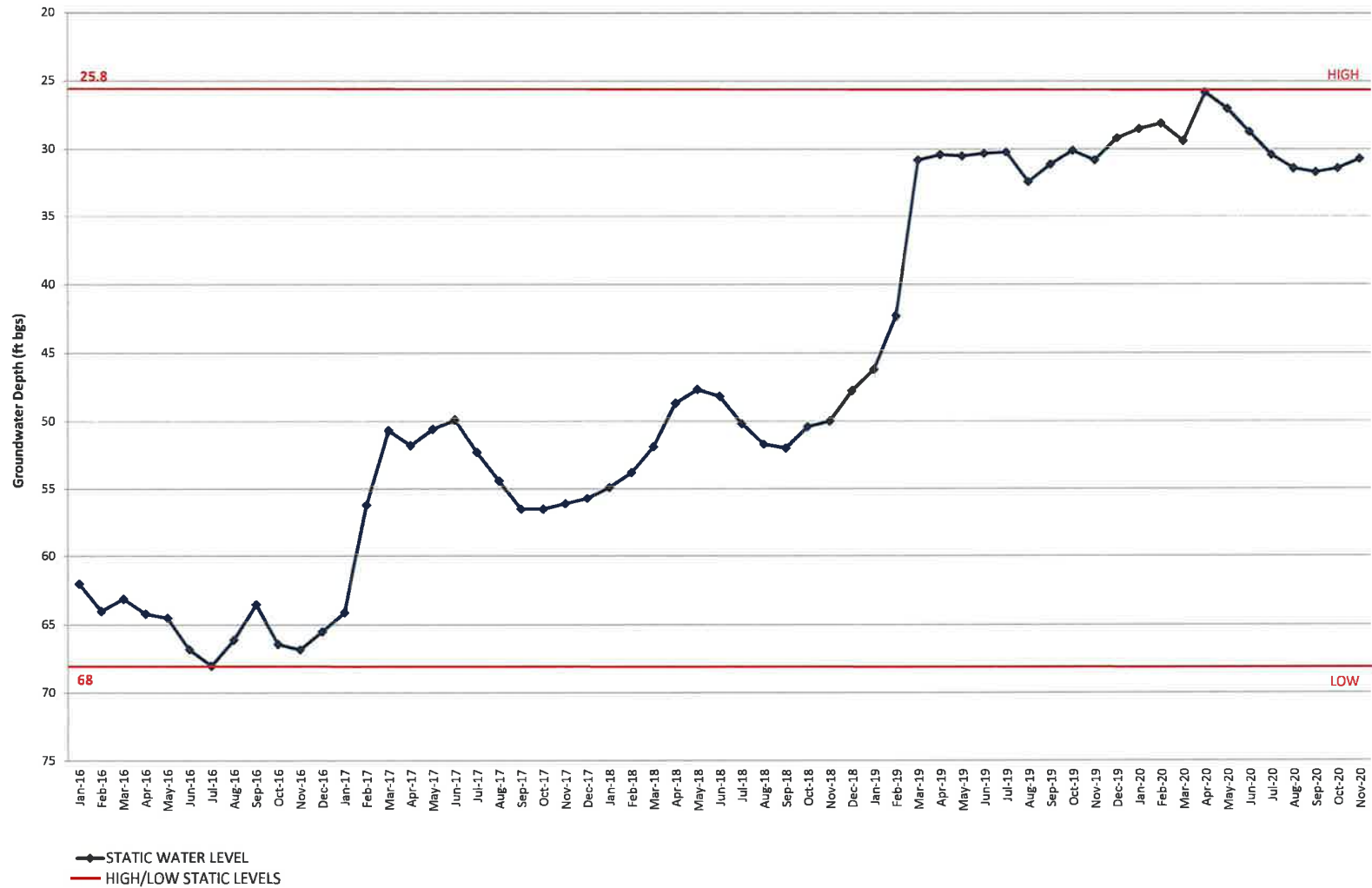
SCV WATER WELL W9
STATIC WATER LEVEL



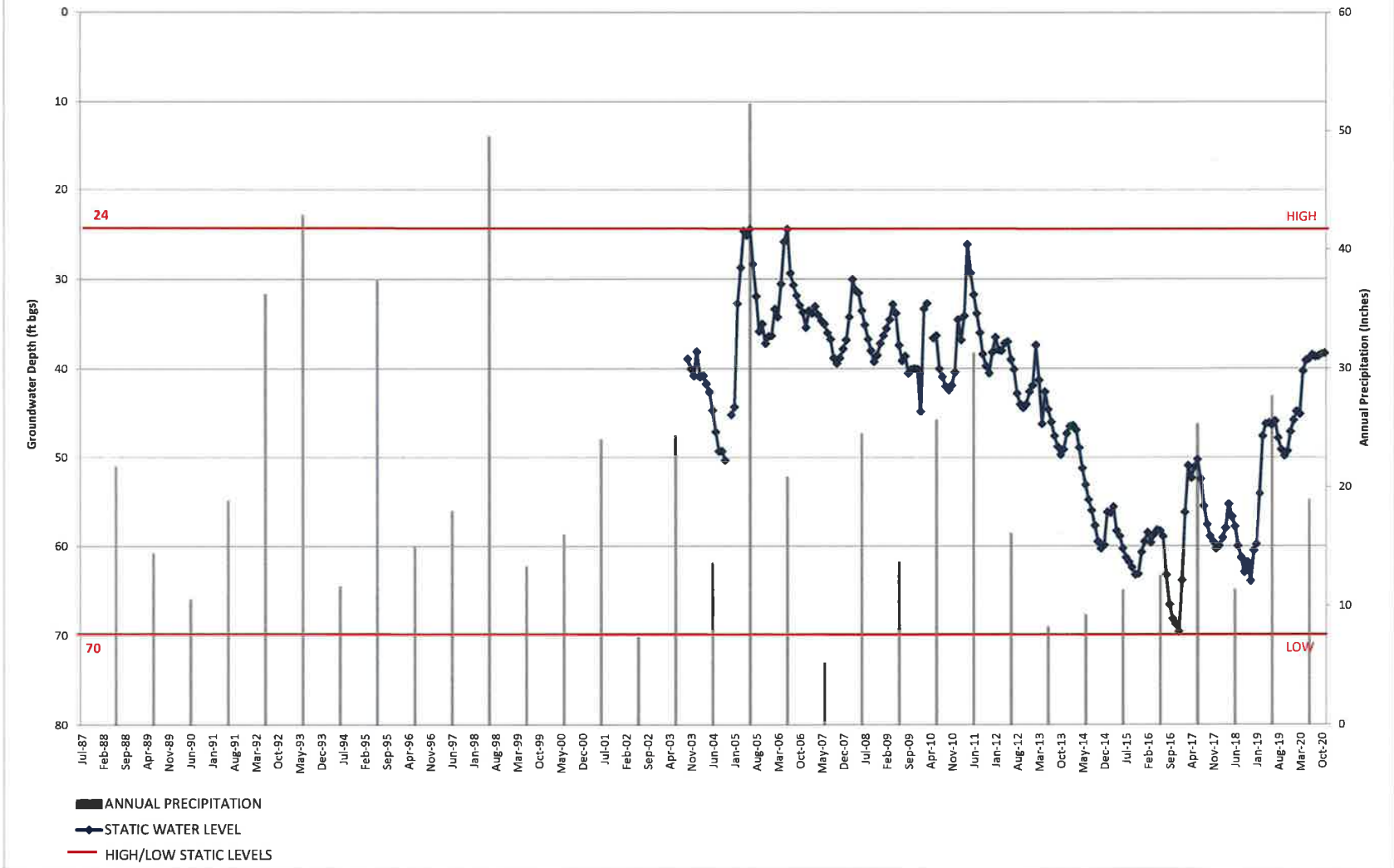
SCV WATER WELL W11
STATIC WATER LEVEL VS PRECIPITATION



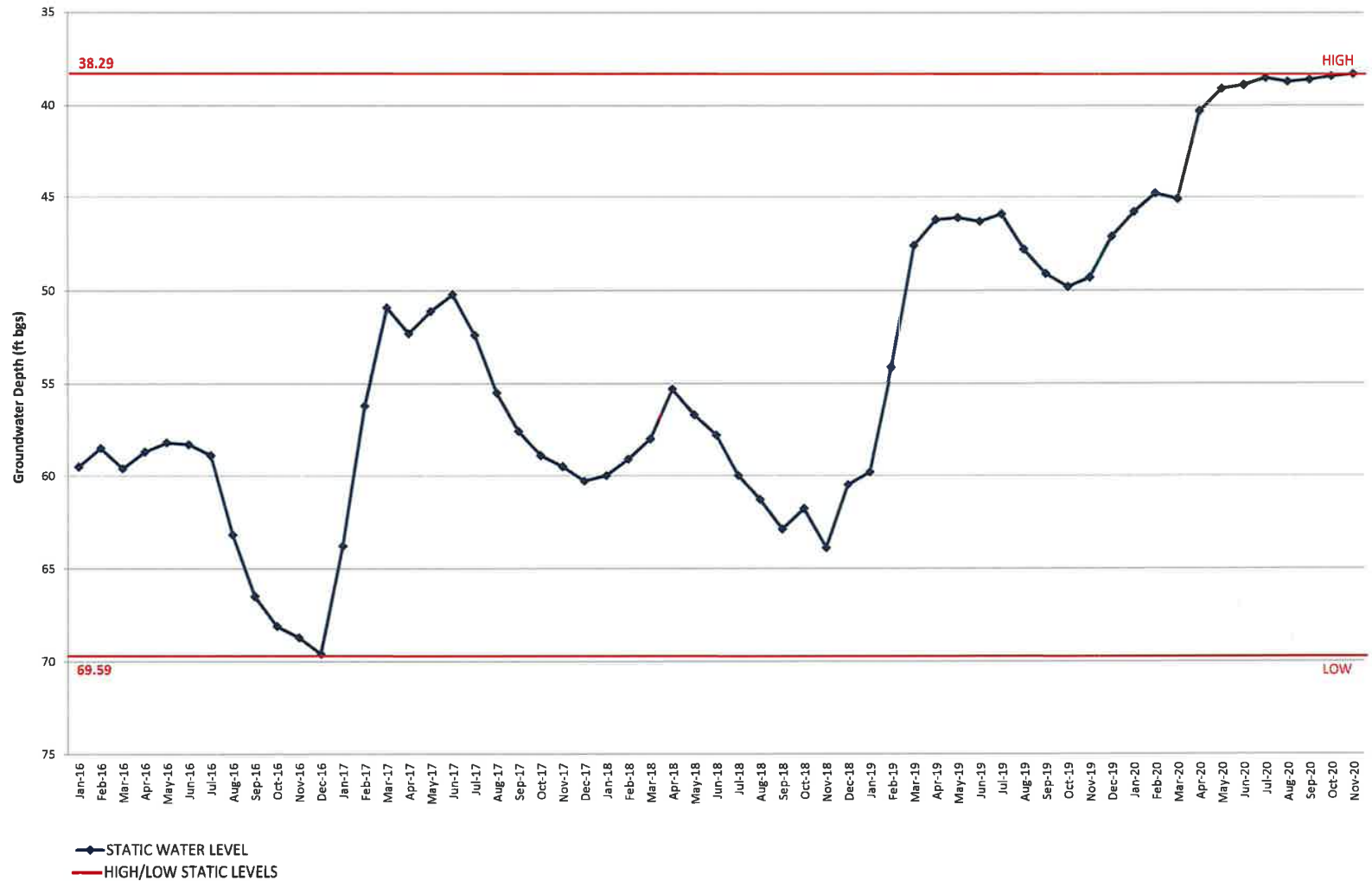
SCV WATER WELL W11
STATIC WATER LEVEL



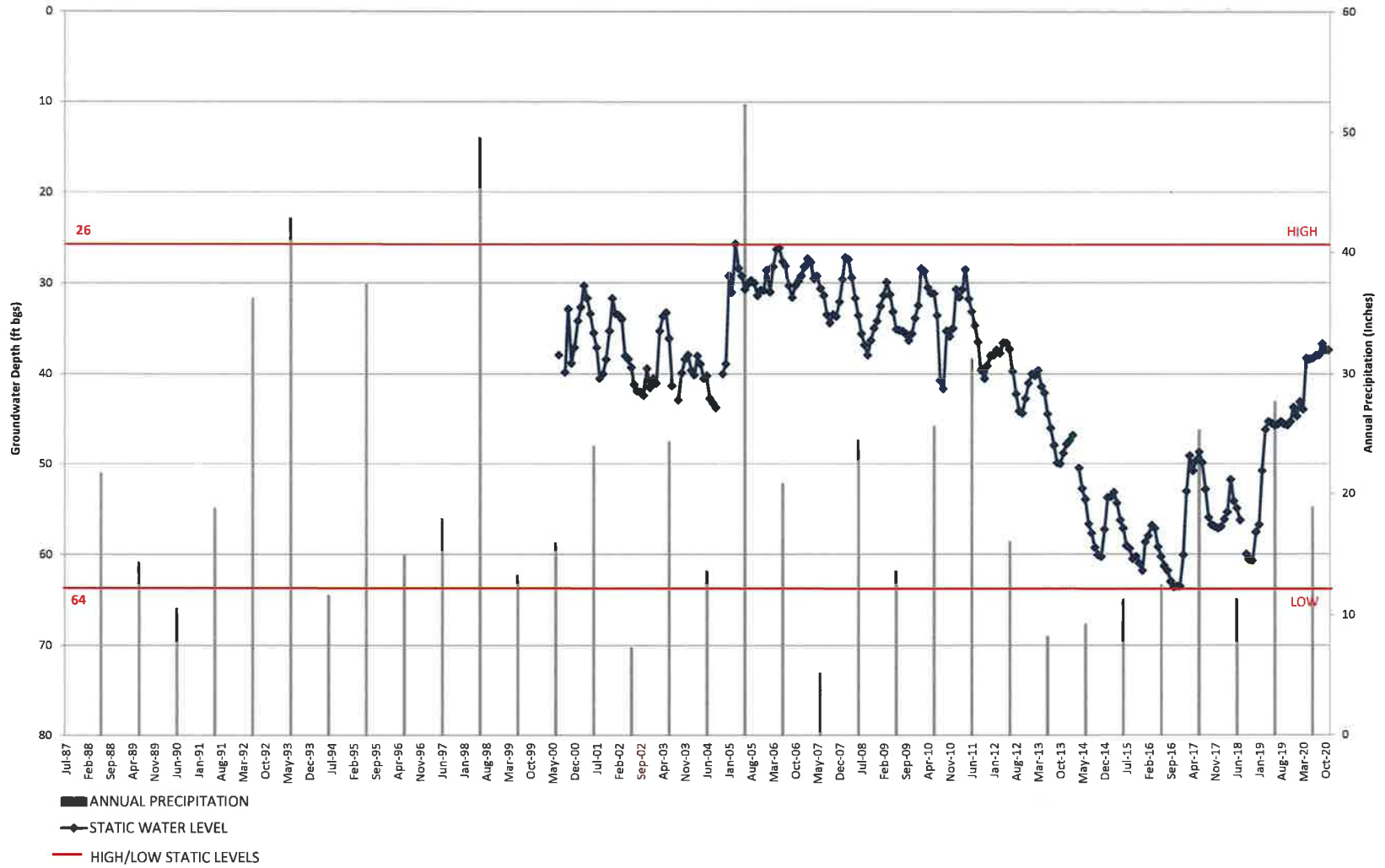
SCV WATER WELL W10
STATIC WATER LEVEL VS PRECIPITATION



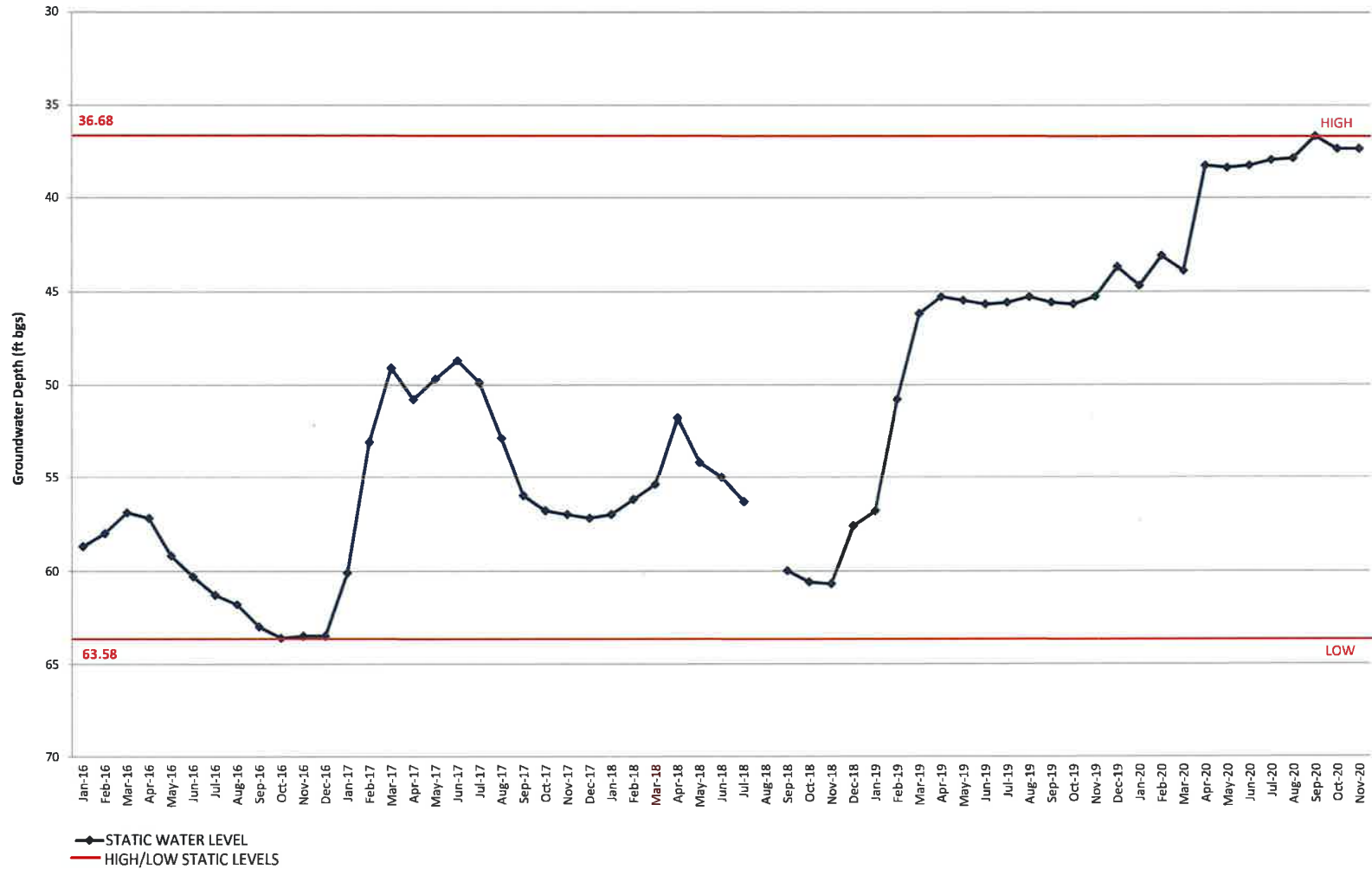
SCV WATER WELL W10
STATIC WATER LEVEL



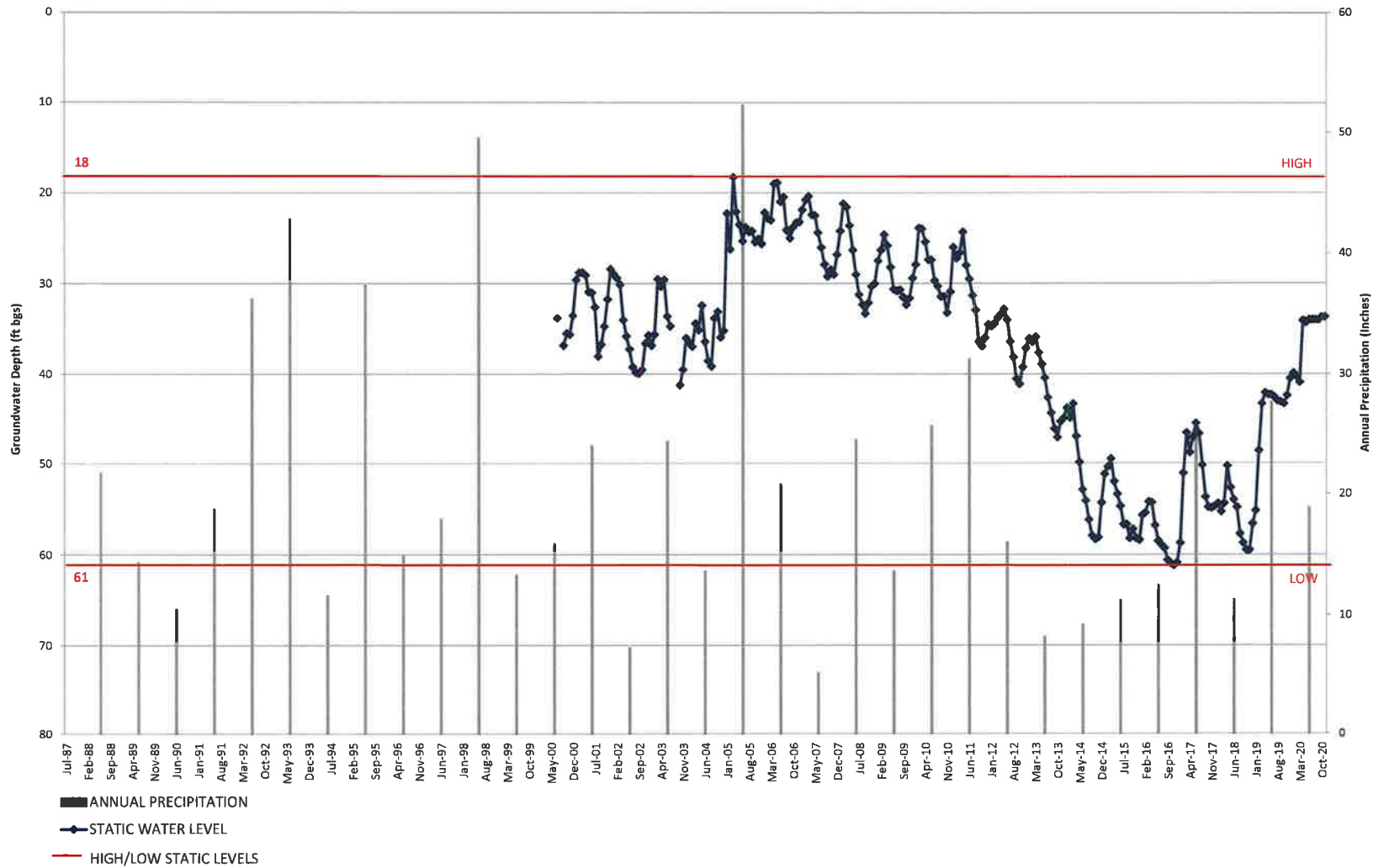
SCV WATER WELL S6
STATIC WATER LEVEL VS PRECIPITATION



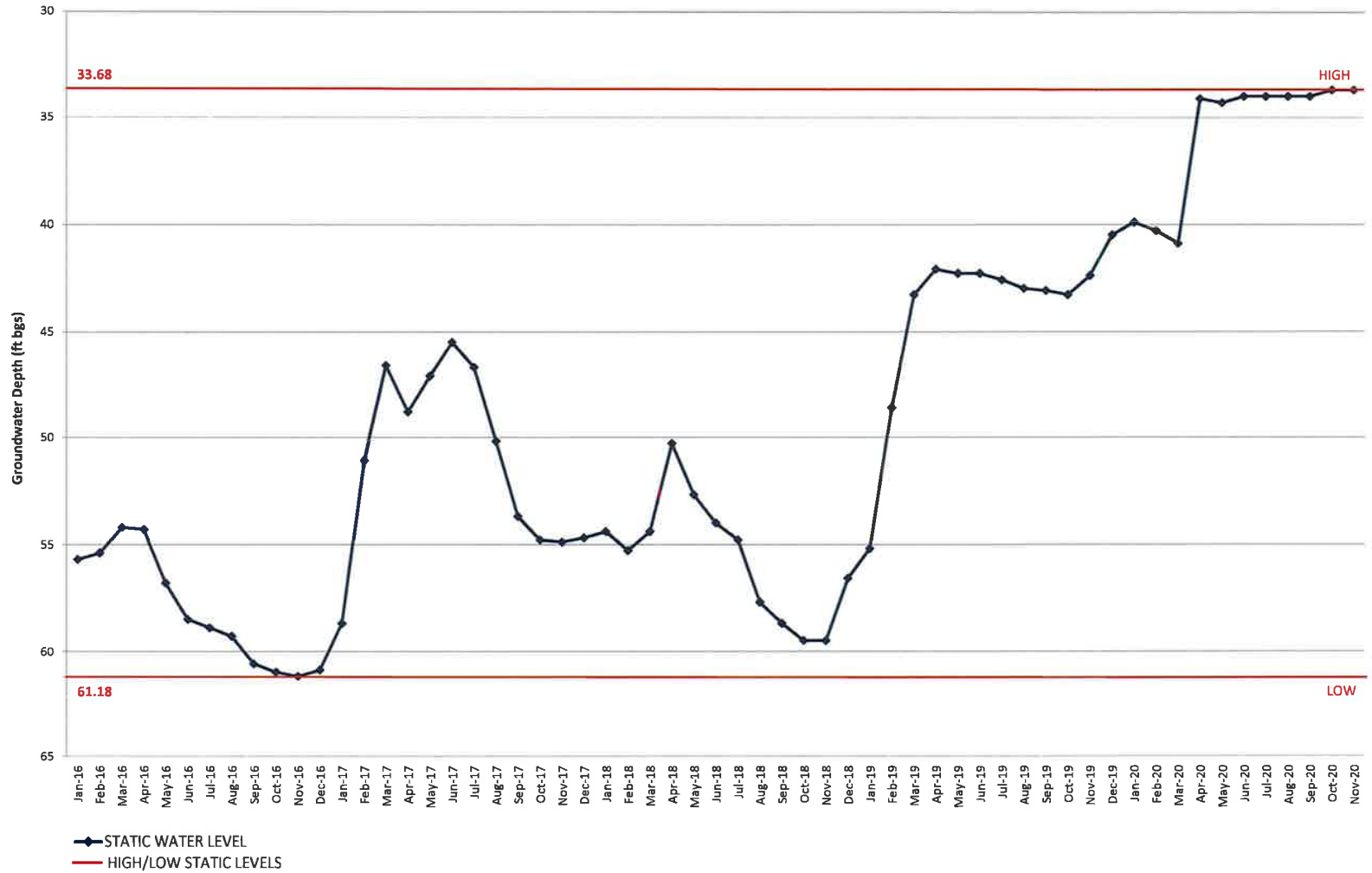
SCV WATER WELL S6
STATIC WATER LEVEL



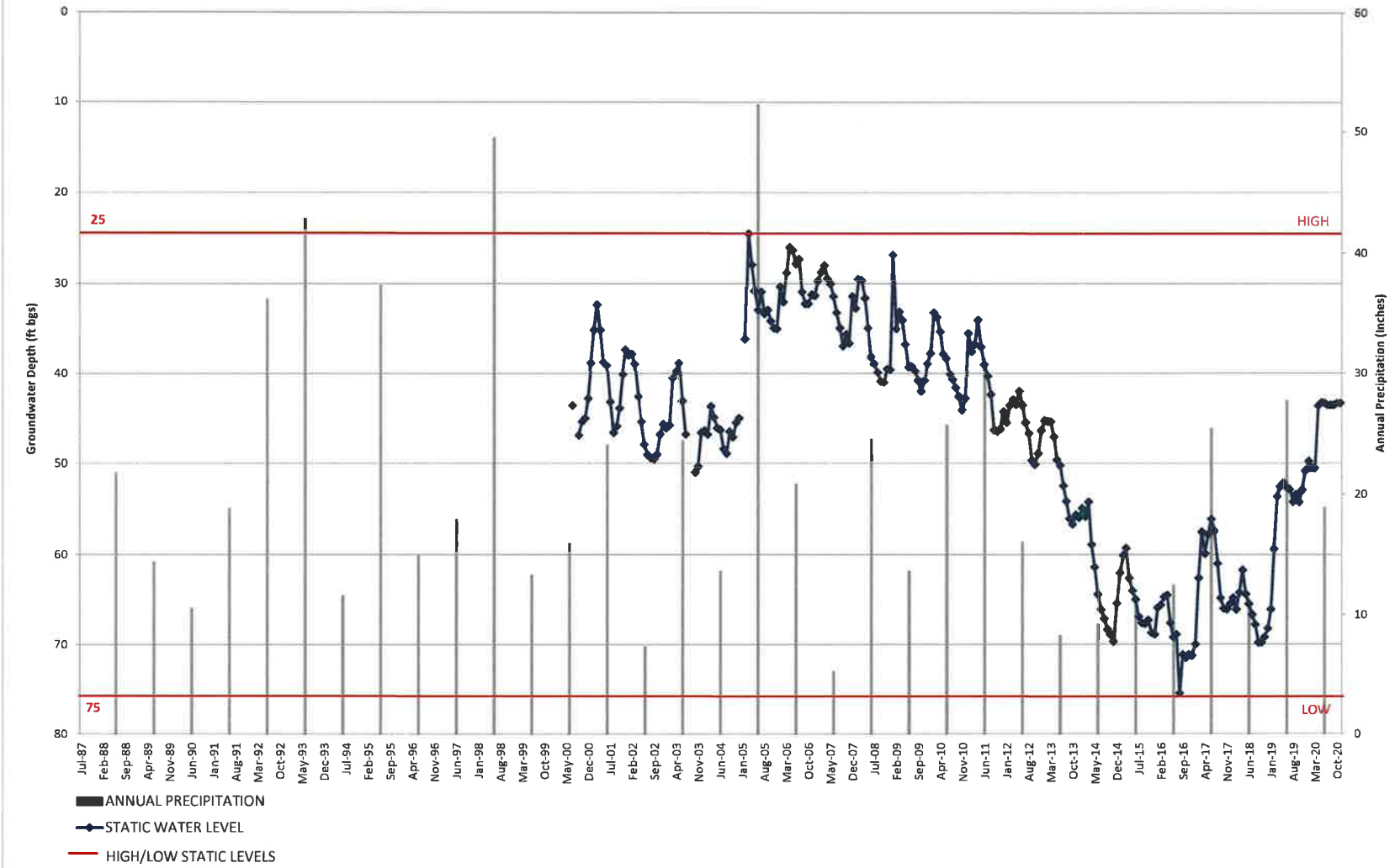
SCV WATER WELL S7
 STATIC WATER LEVEL VS PRECIPITATION



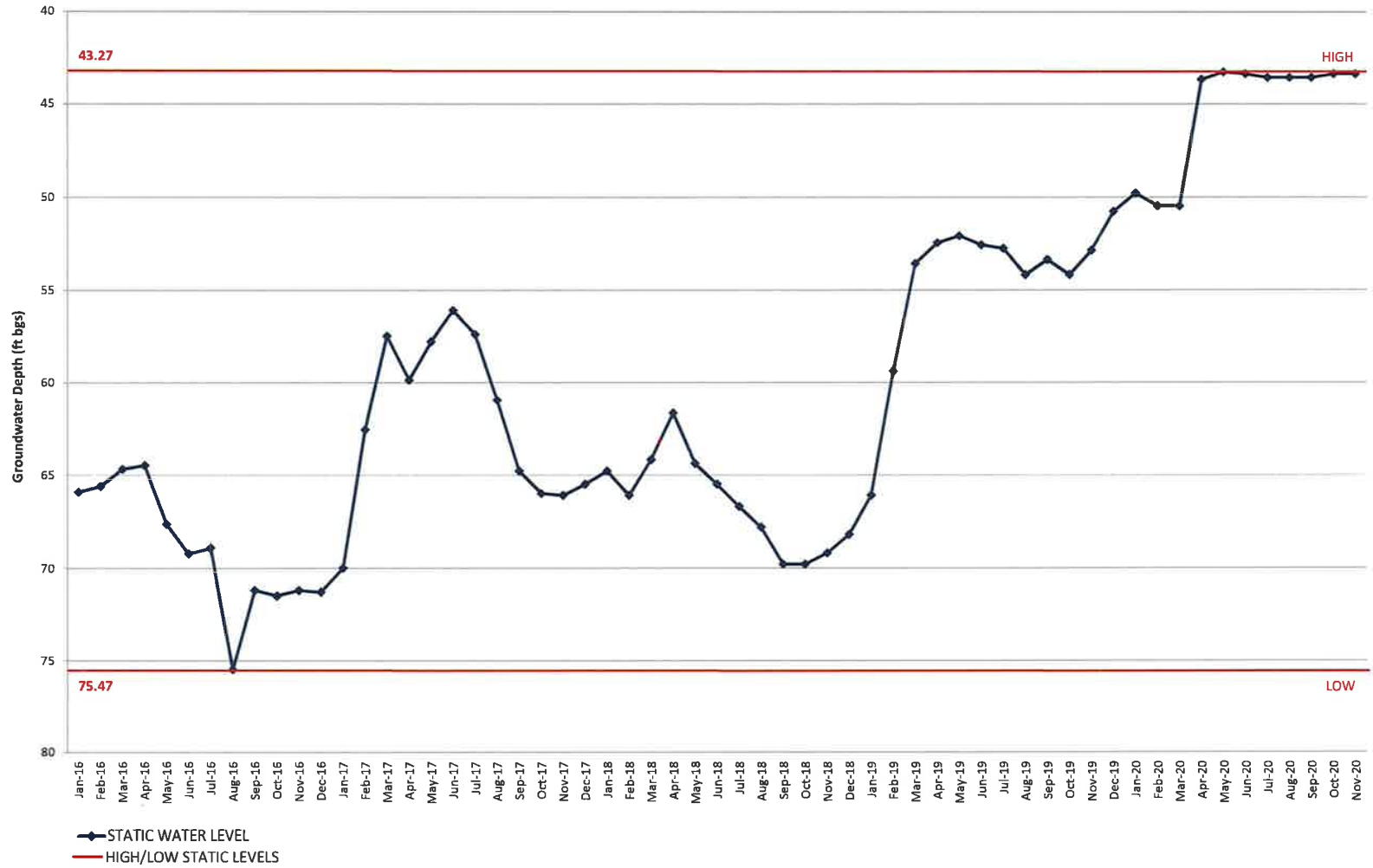
SCV WATER WELL S7
STATIC WATER LEVEL



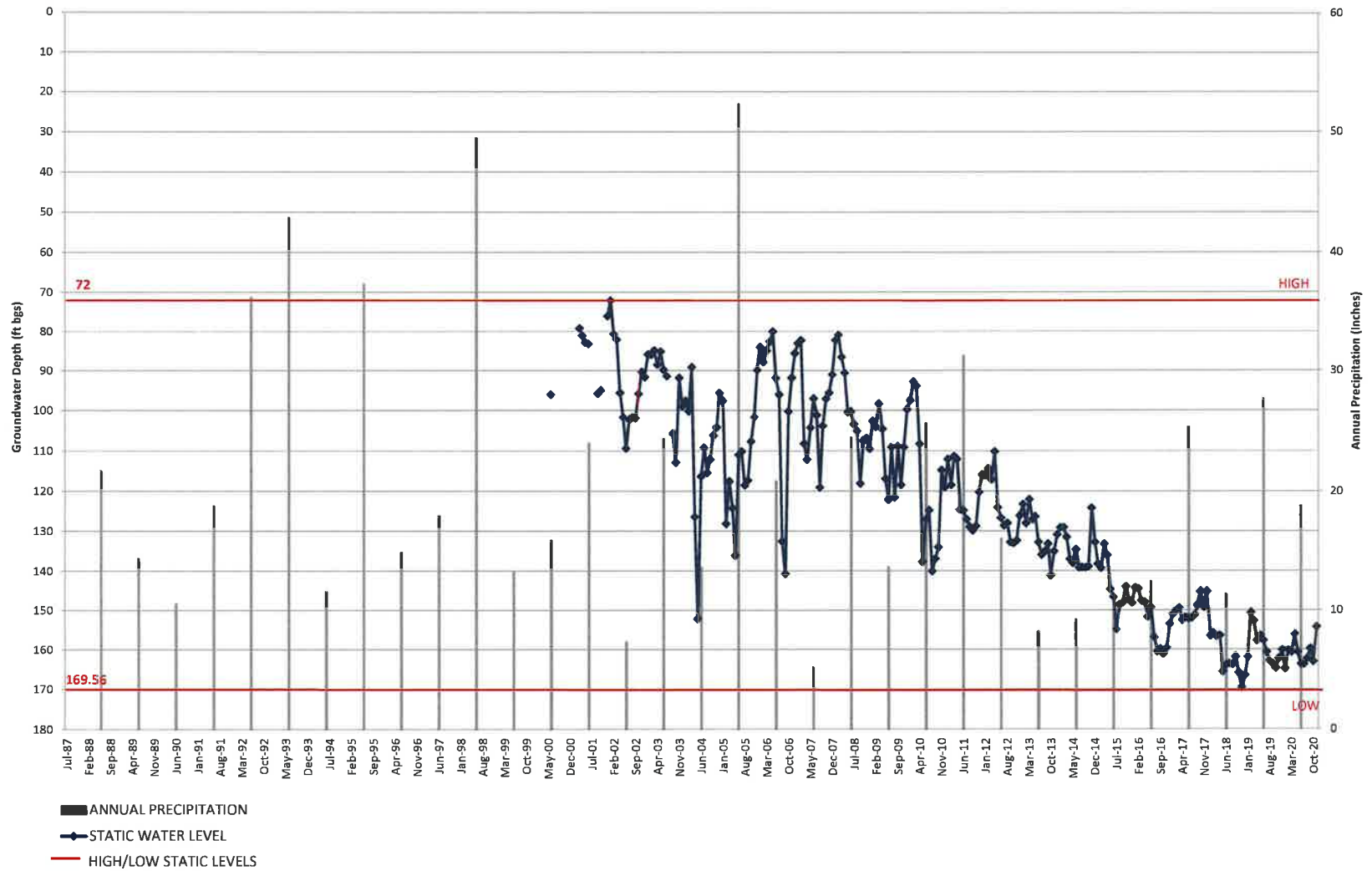
SCV WATER WELL S8
 STATIC WATER LEVEL VS PRECIPITATION



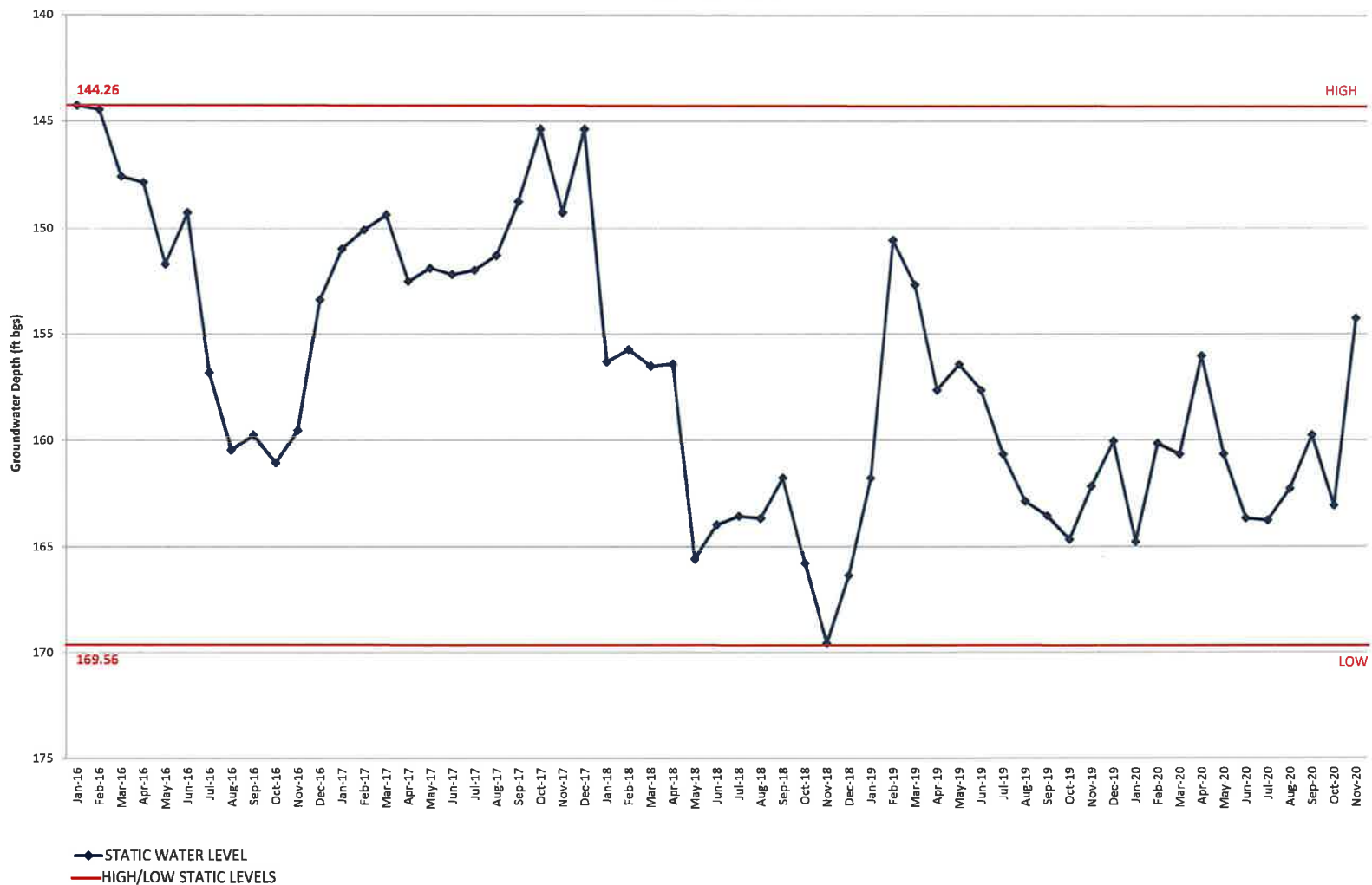
SCV WATER WELL S8
STATIC WATER LEVEL



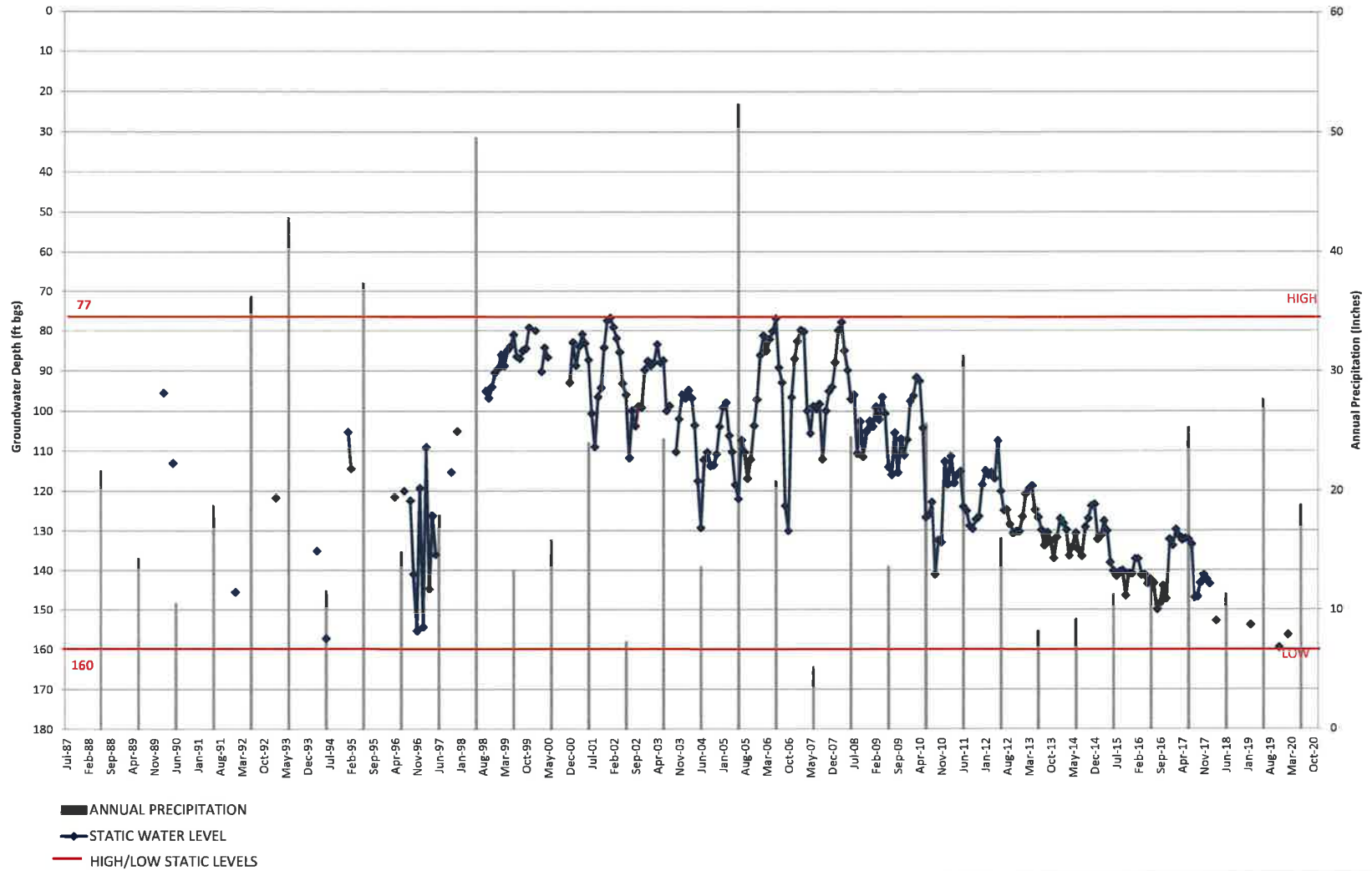
SCV WATER WELL 205
 STATIC WATER LEVEL VS PRECIPITATION



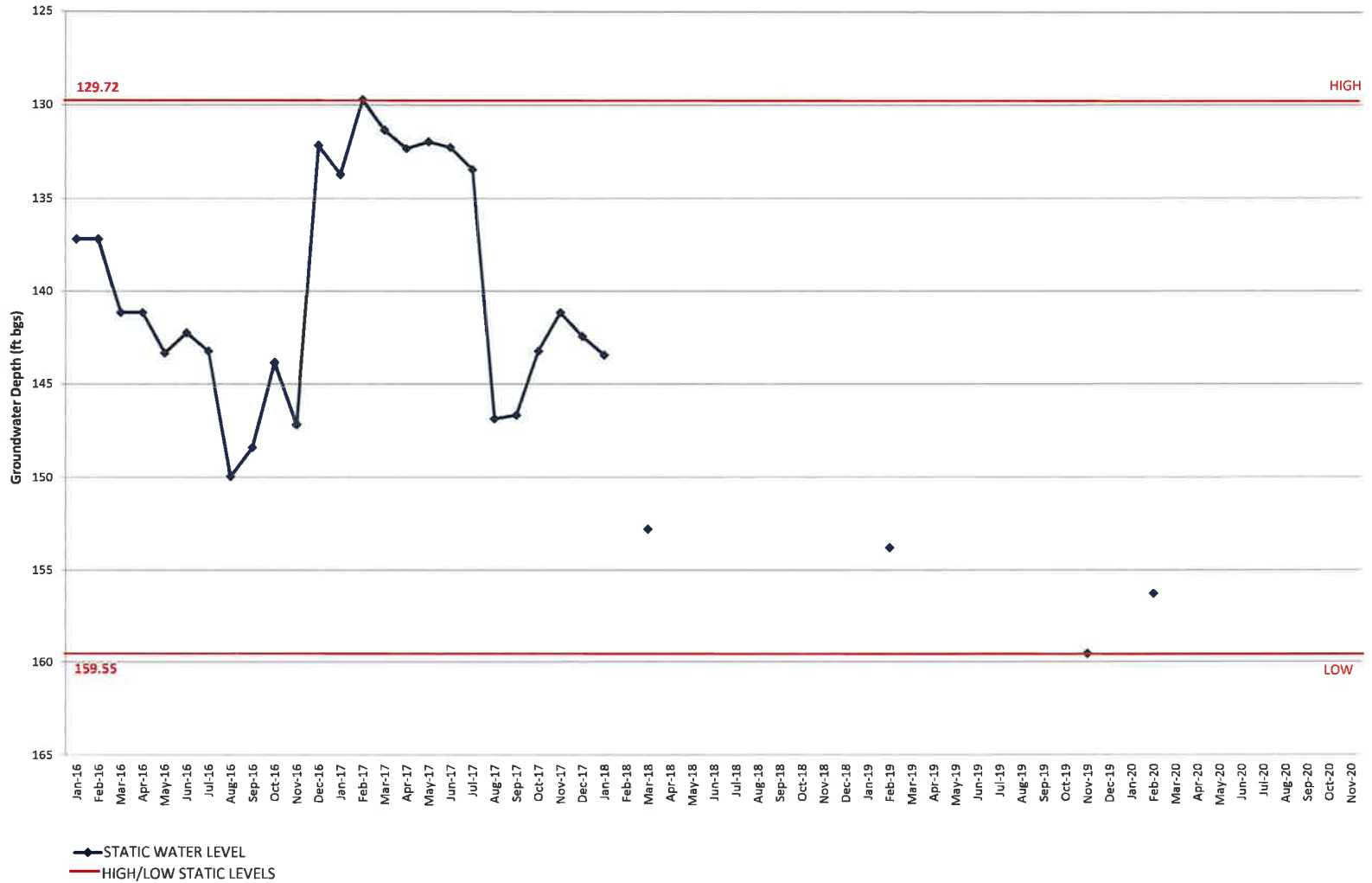
SCV WATER WELL 205
STATIC WATER LEVEL



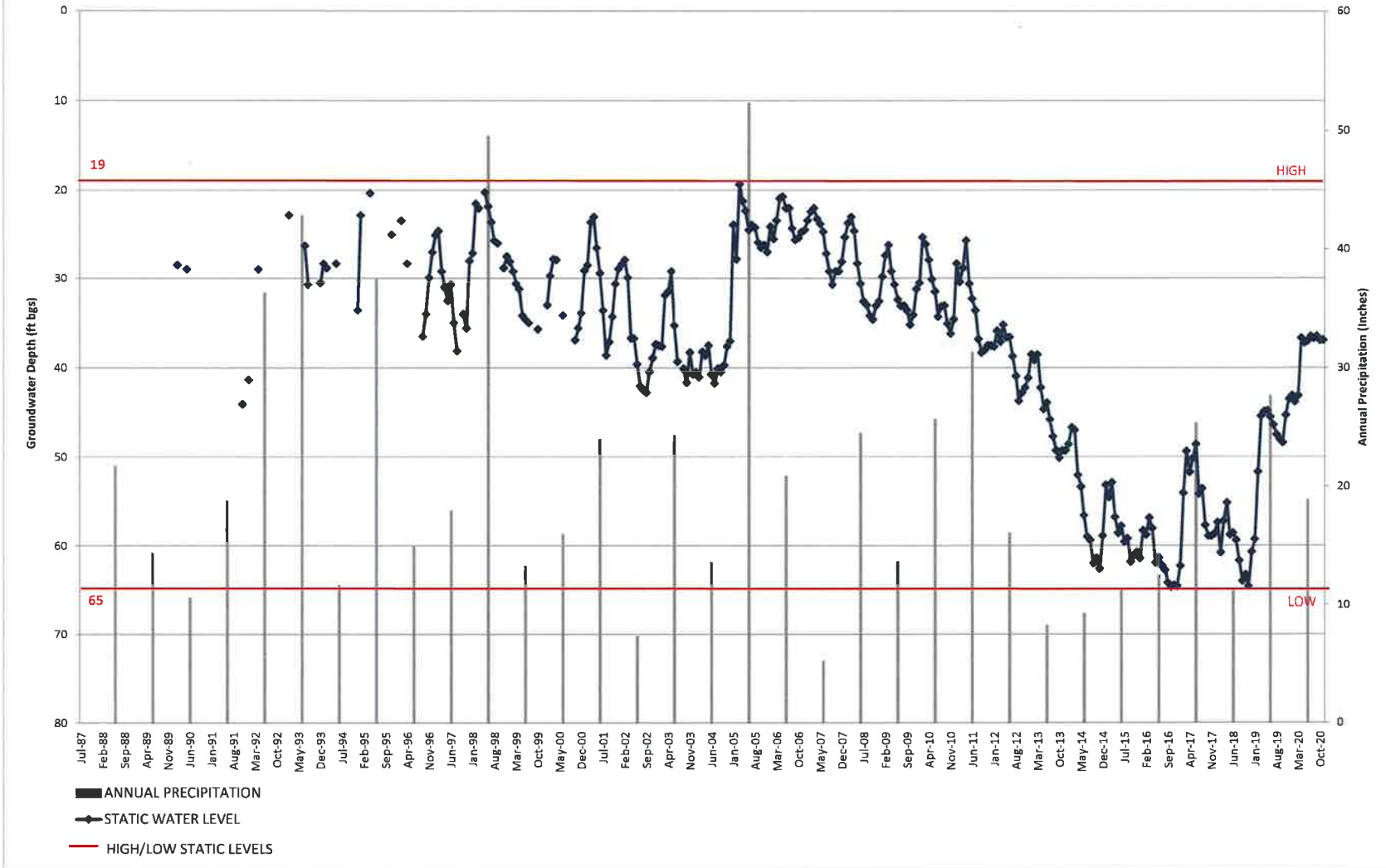
SCV WATER WELL 201
 STATIC WATER LEVEL VS PRECIPITATION



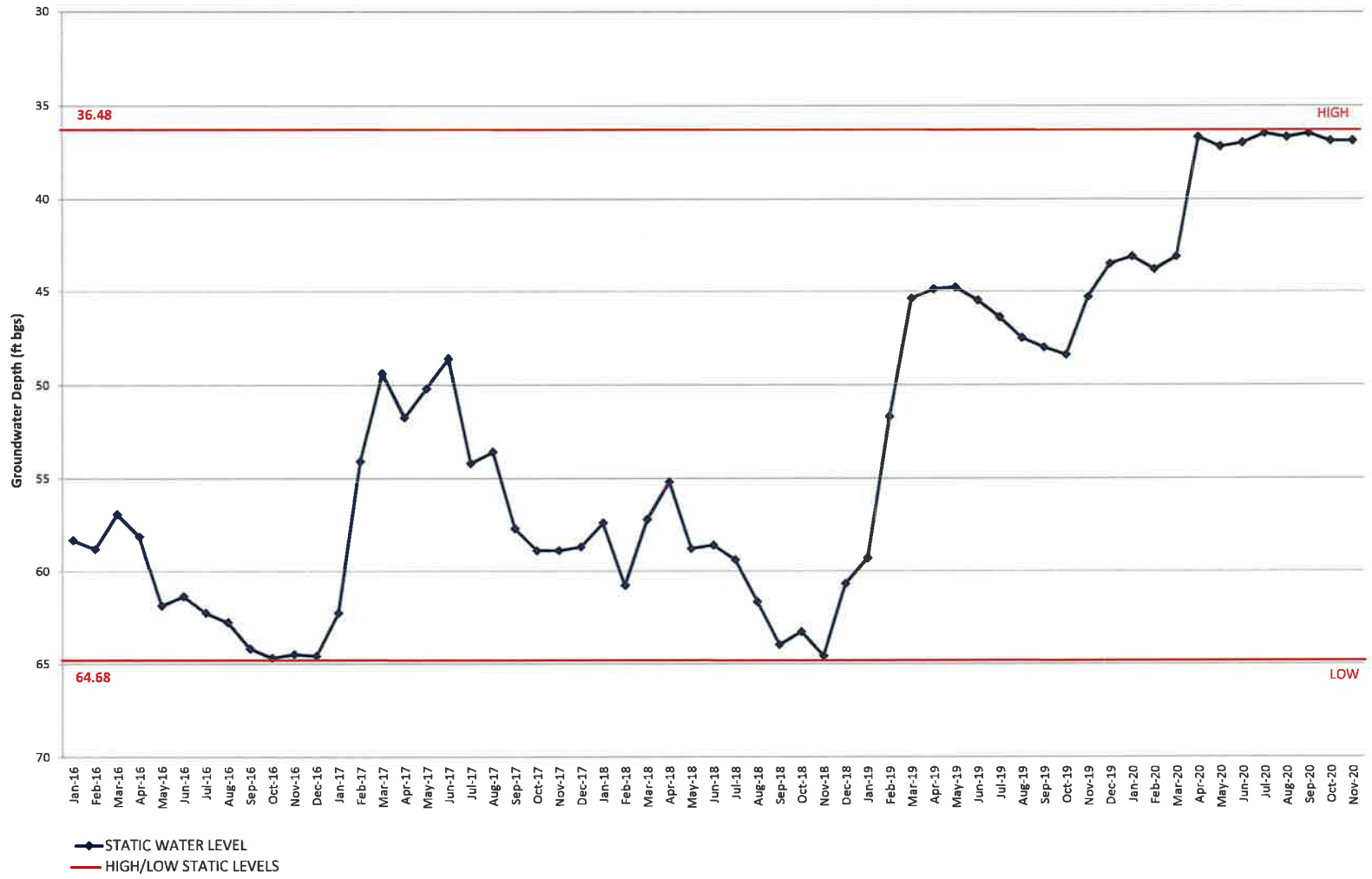
SCV WATER WELL 201
STATIC WATER LEVEL



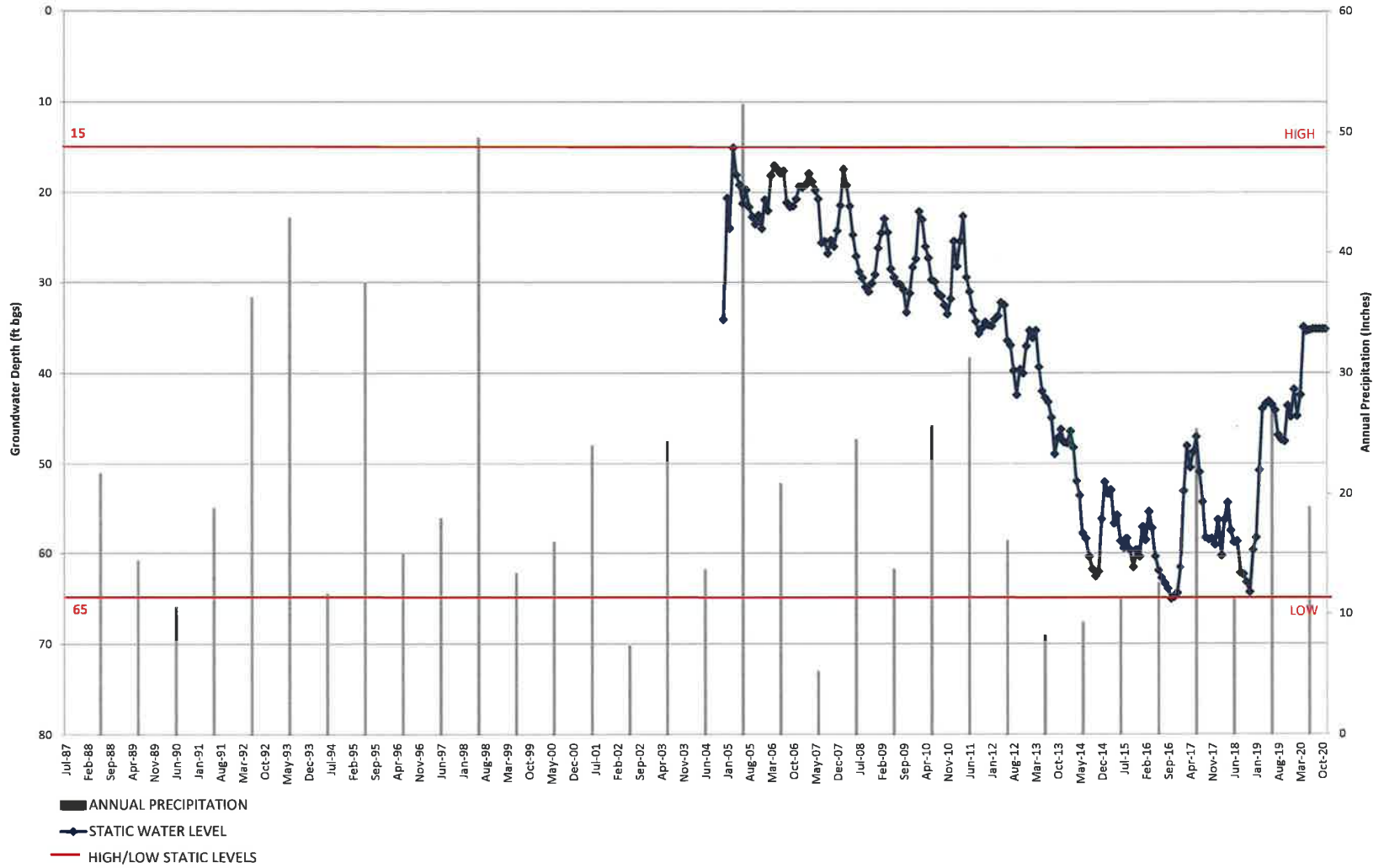
SCV WATER WELL N
STATIC WATER LEVEL VS PRECIPITATION



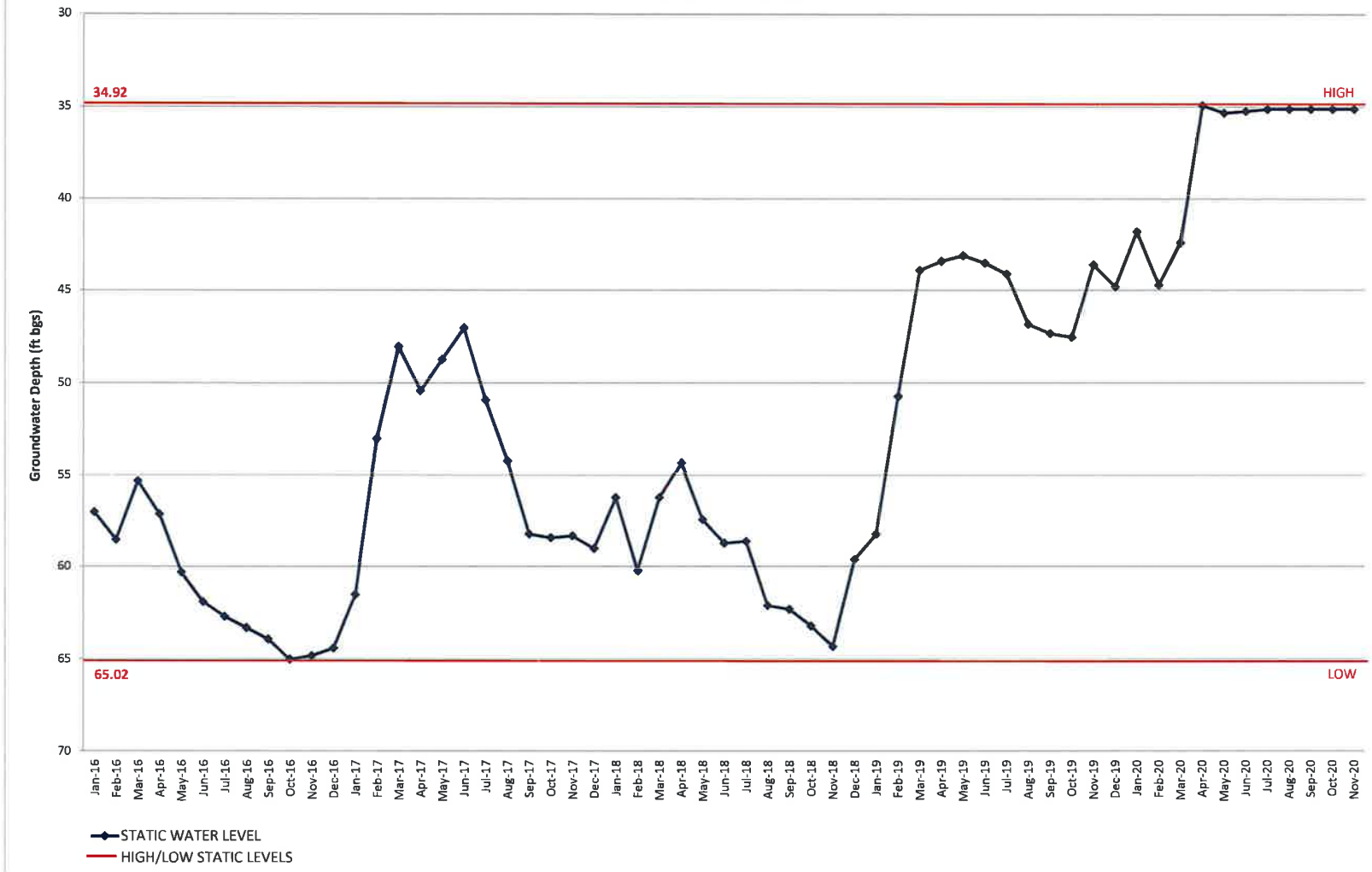
SCV WATER WELL N
STATIC WATER LEVEL



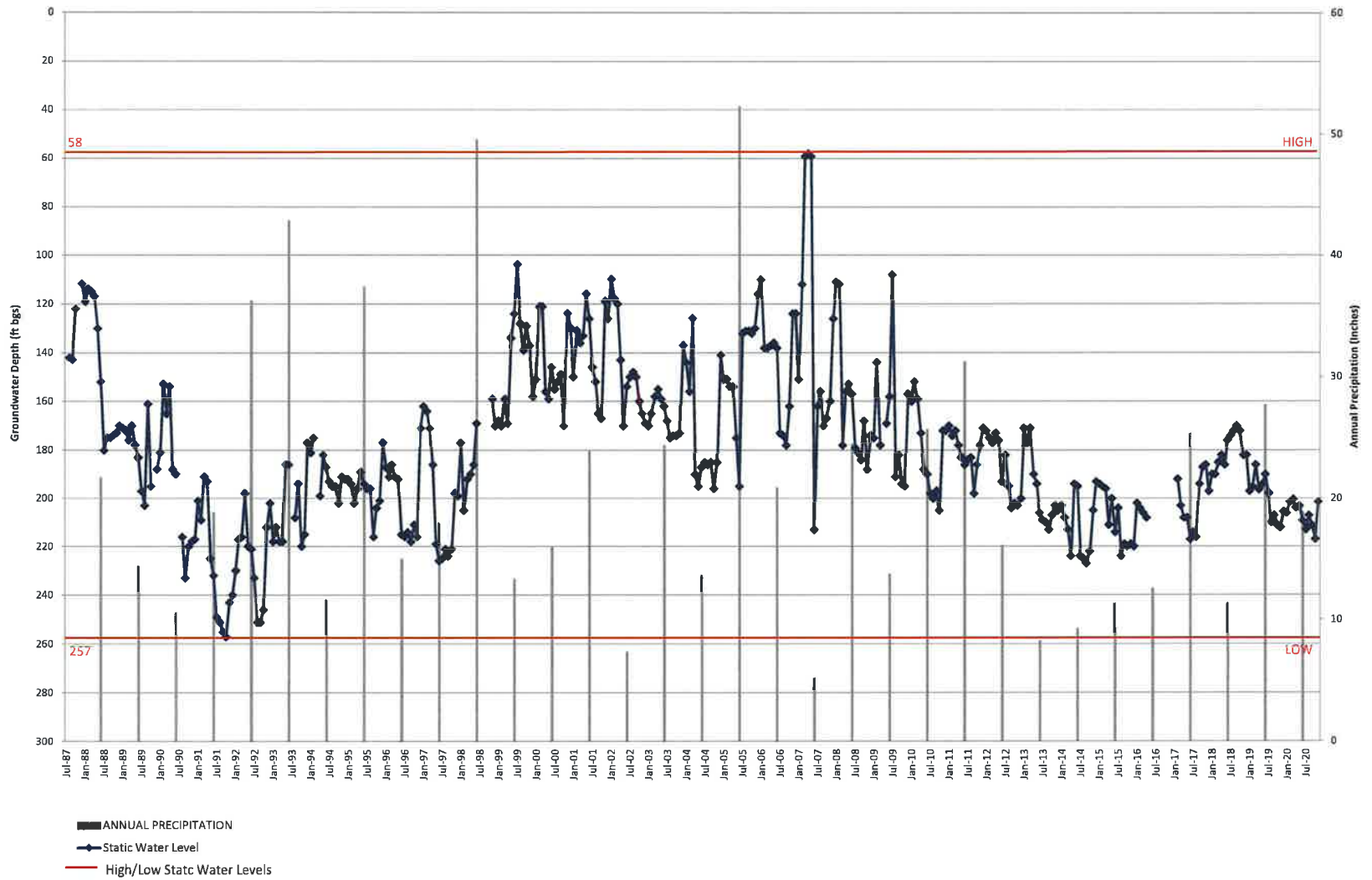
SCV WATER WELL N7
STATIC WATER LEVEL VS PRECIPITATION

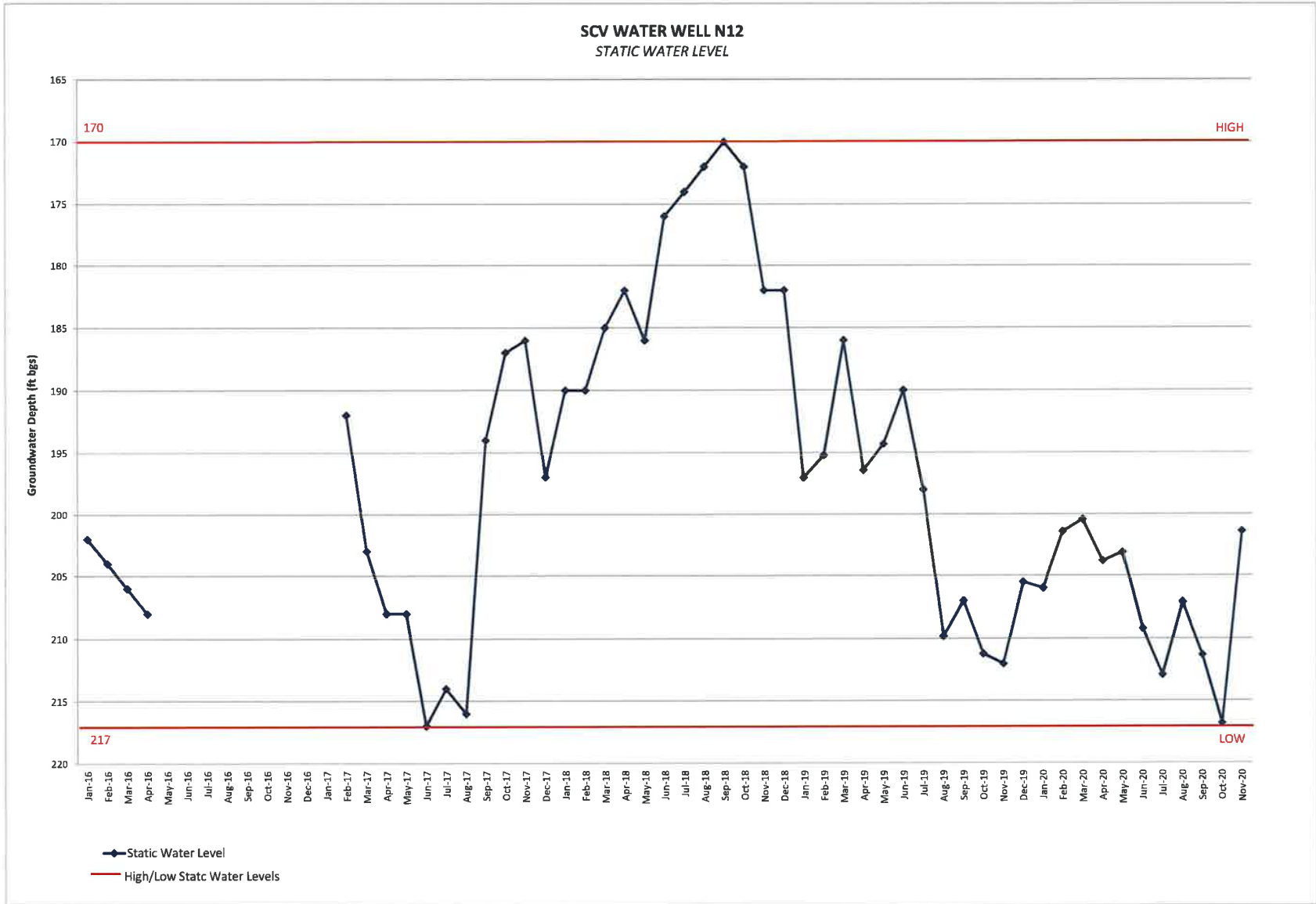


SCV WATER WELL N7
STATIC WATER LEVEL

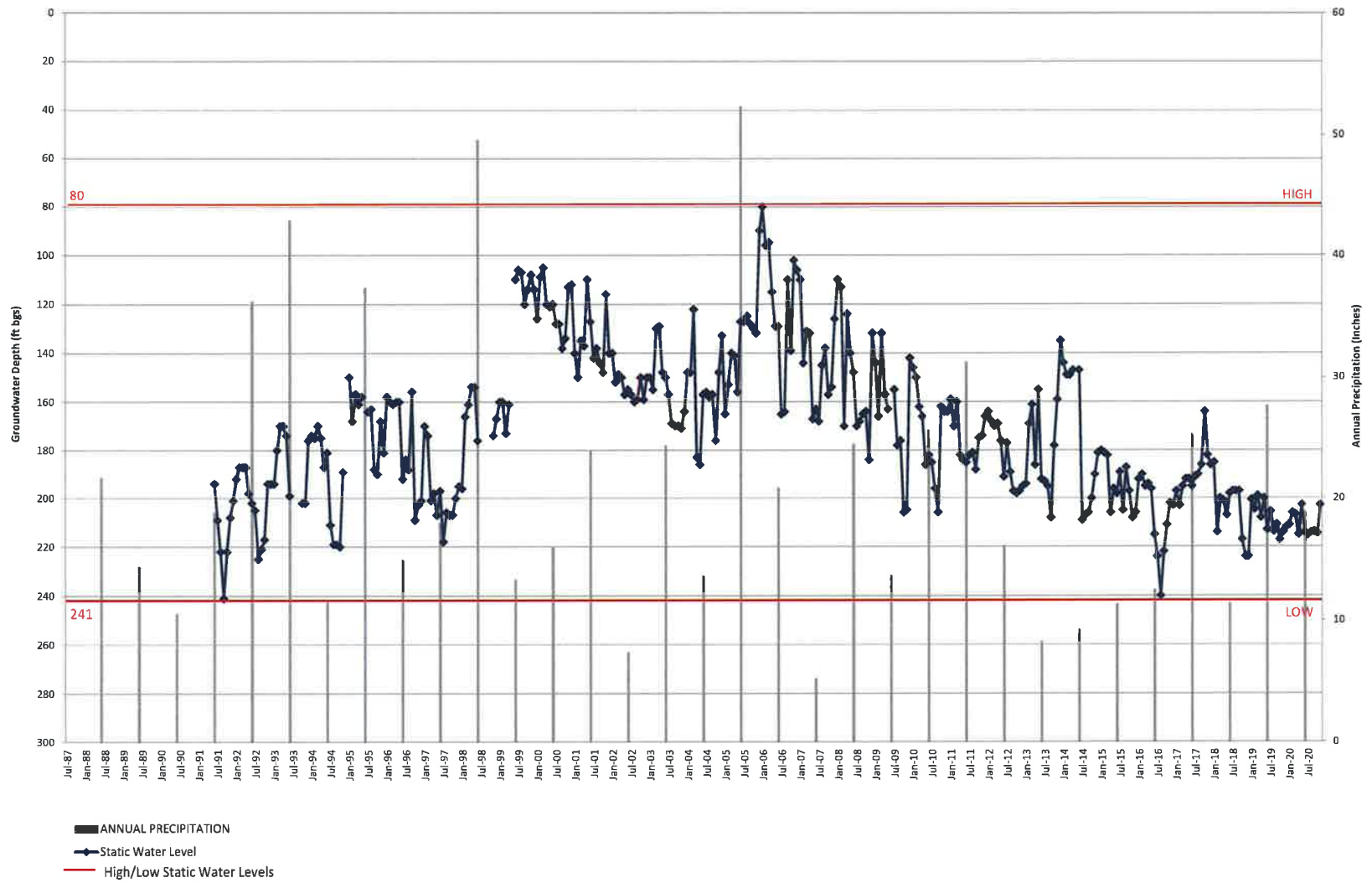


SCV WATER WELL N12
STATIC WATER LEVEL VS PRECIPITATION

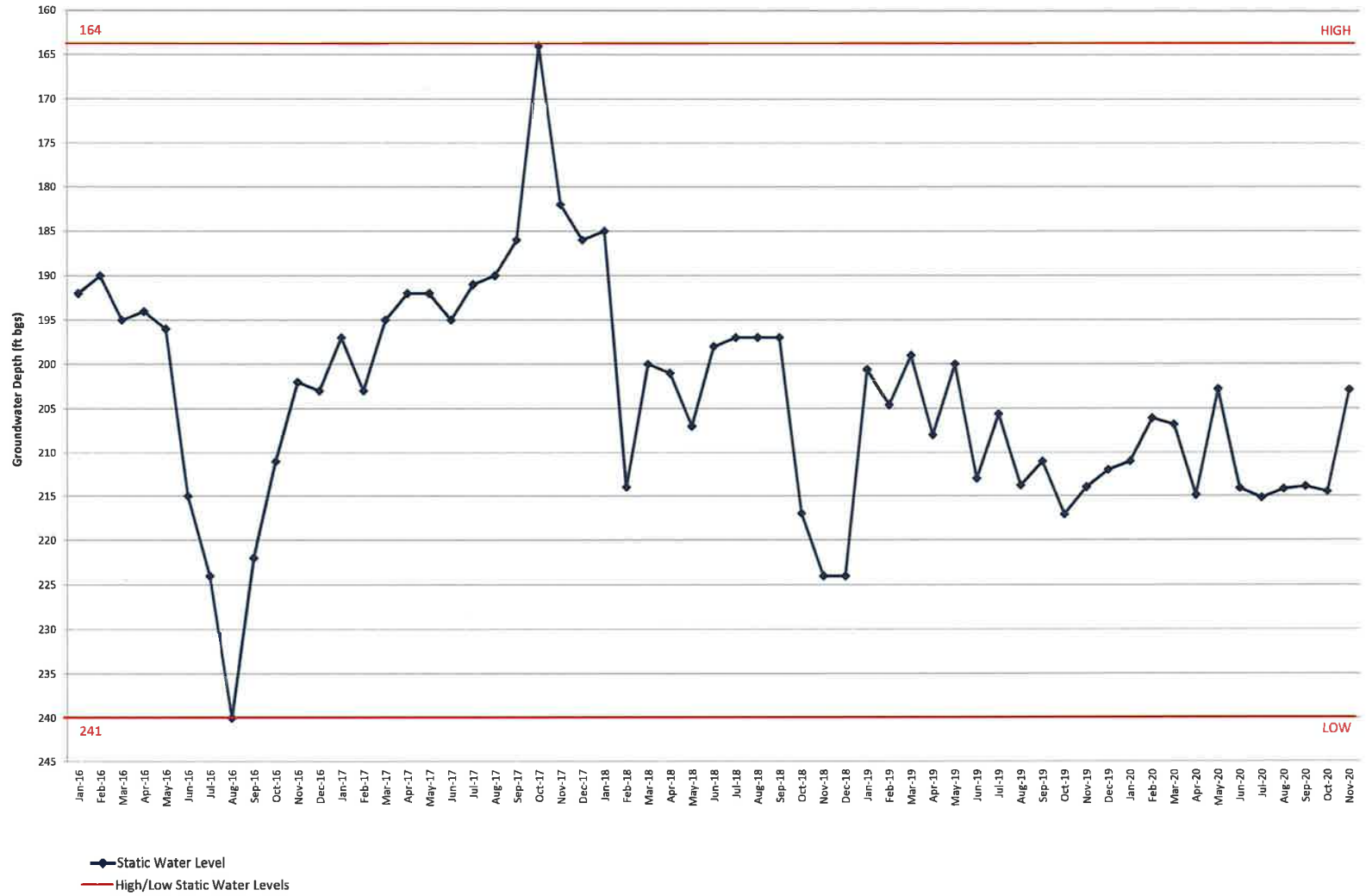




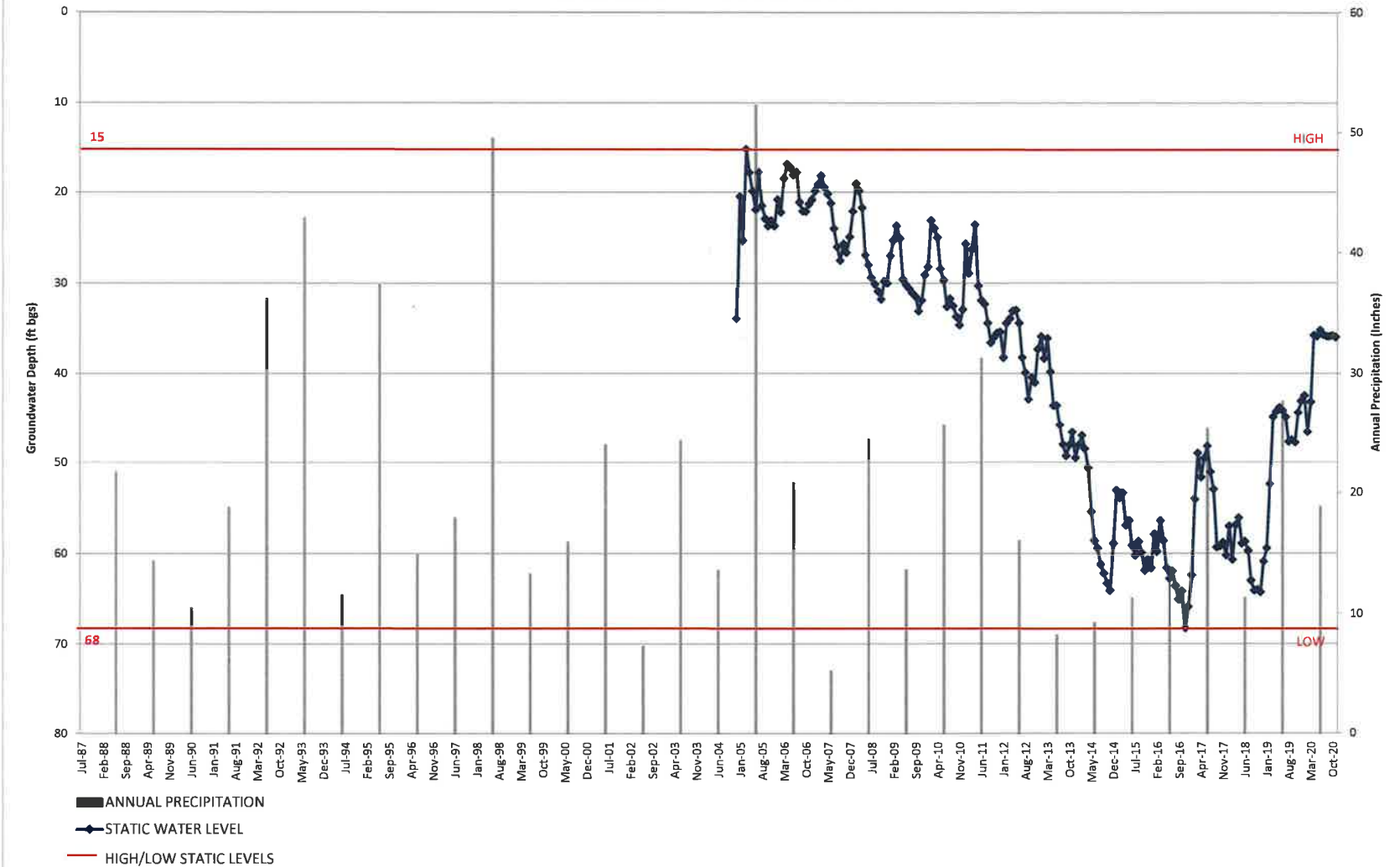
SCV WATER WELL N13
STATIC WATER LEVEL VS PRECIPITATION



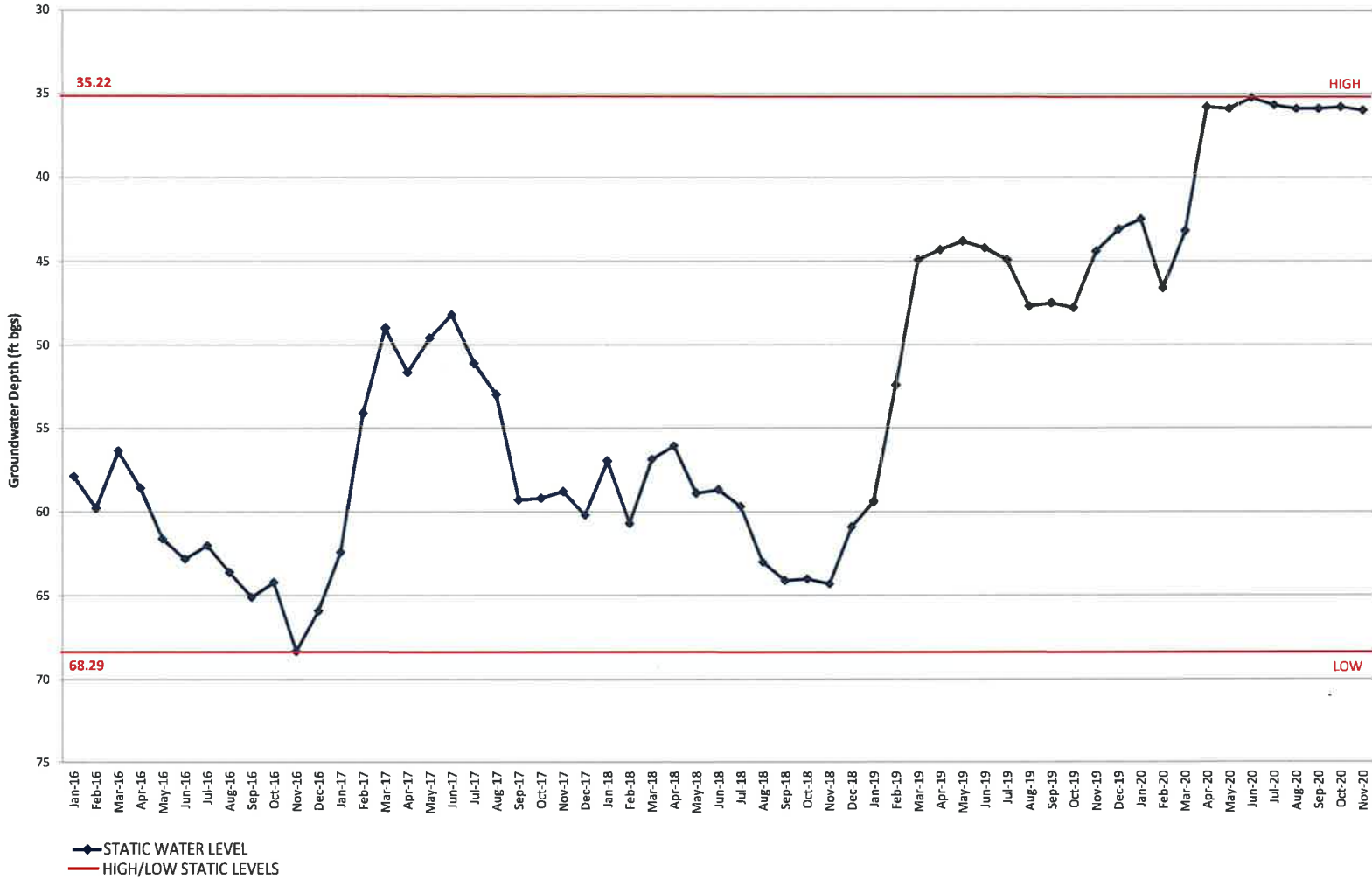
SCV WATER WELL N13
STATIC WATER LEVEL



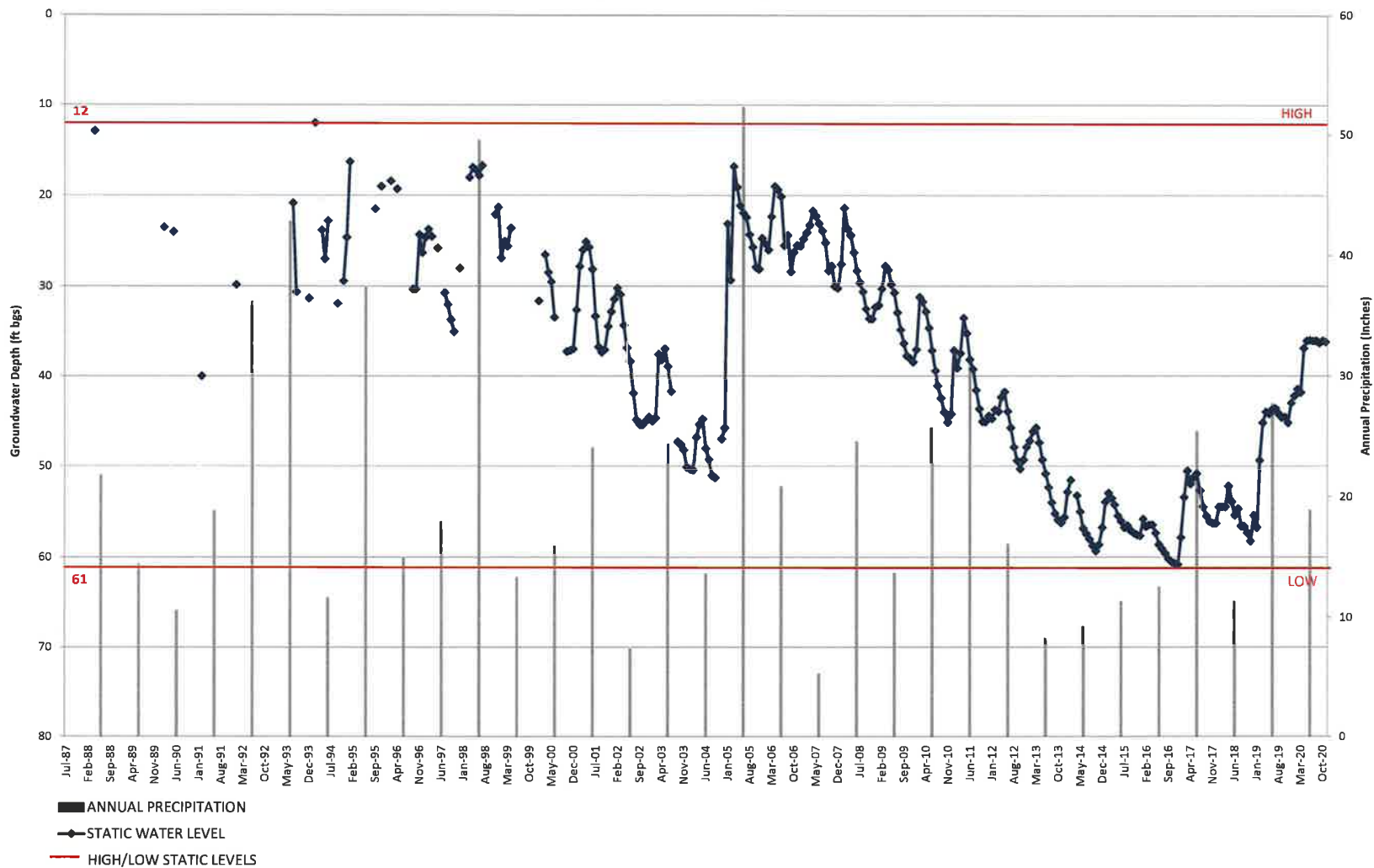
SCV WATER WELL N8
 STATIC WATER LEVEL VS PRECIPITATION



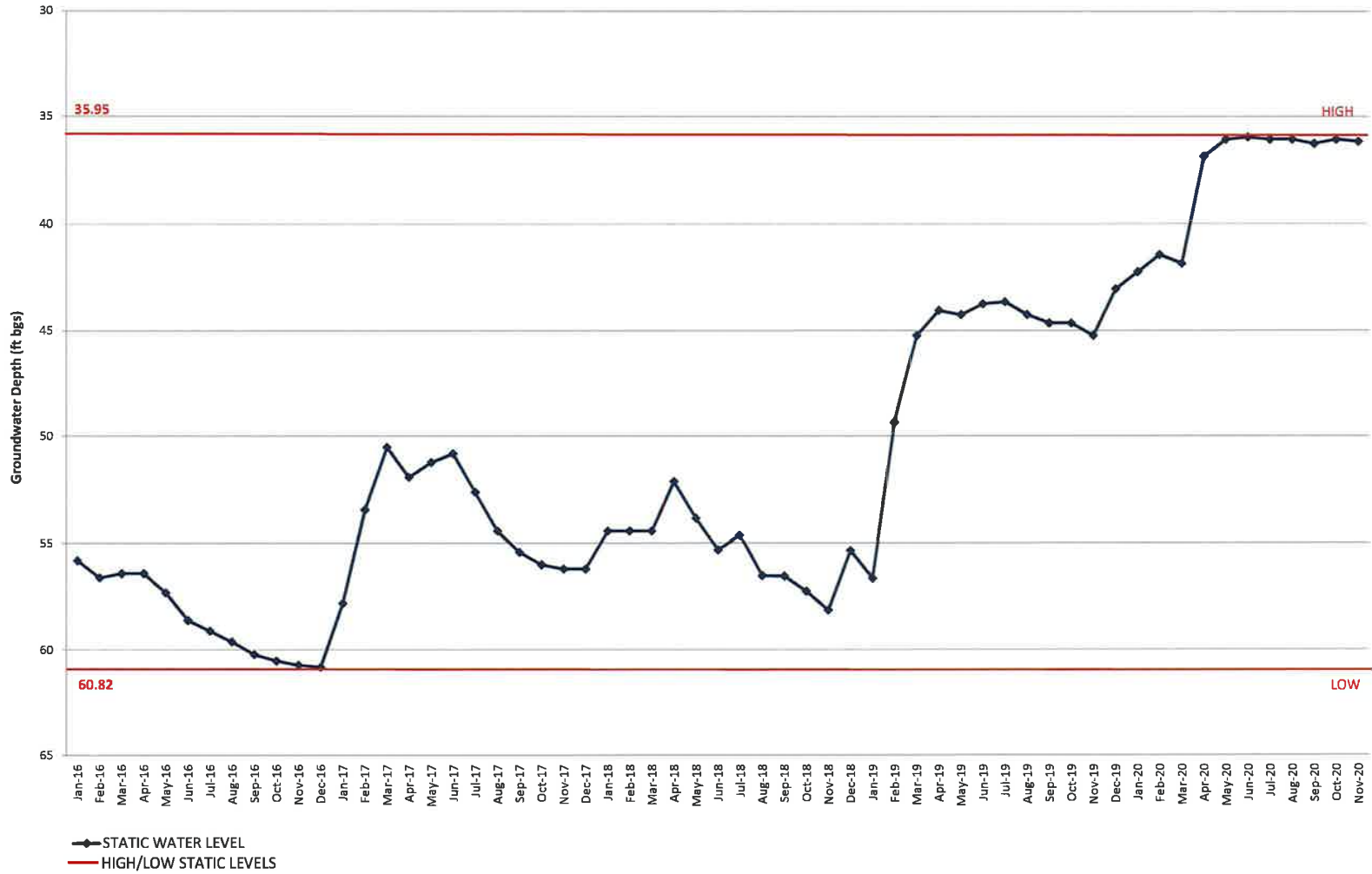
SCV WATER WELL N8
STATIC WATER LEVEL



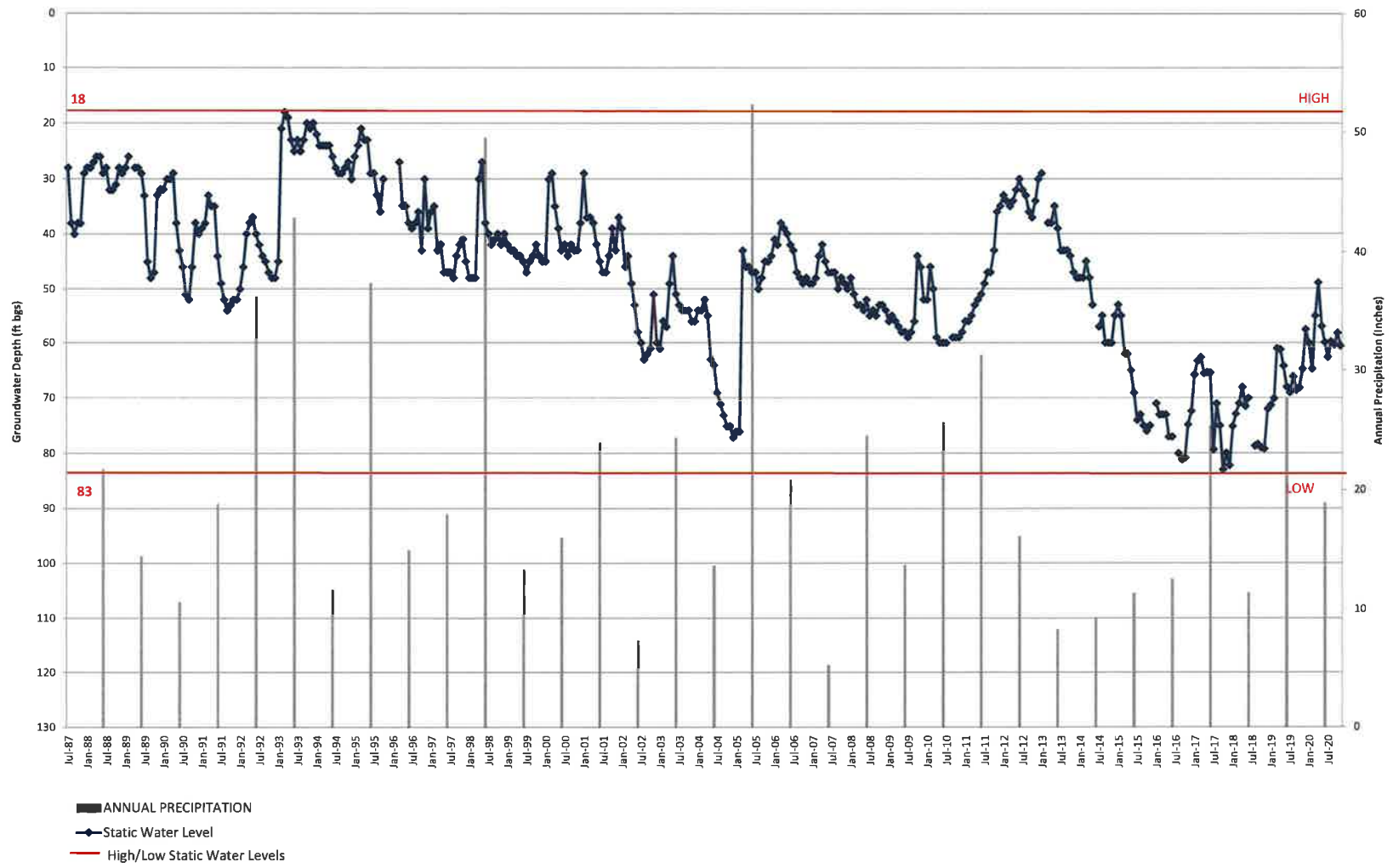
SCV WATER WELL Q2
STATIC WATER LEVEL VS PRECIPITATION



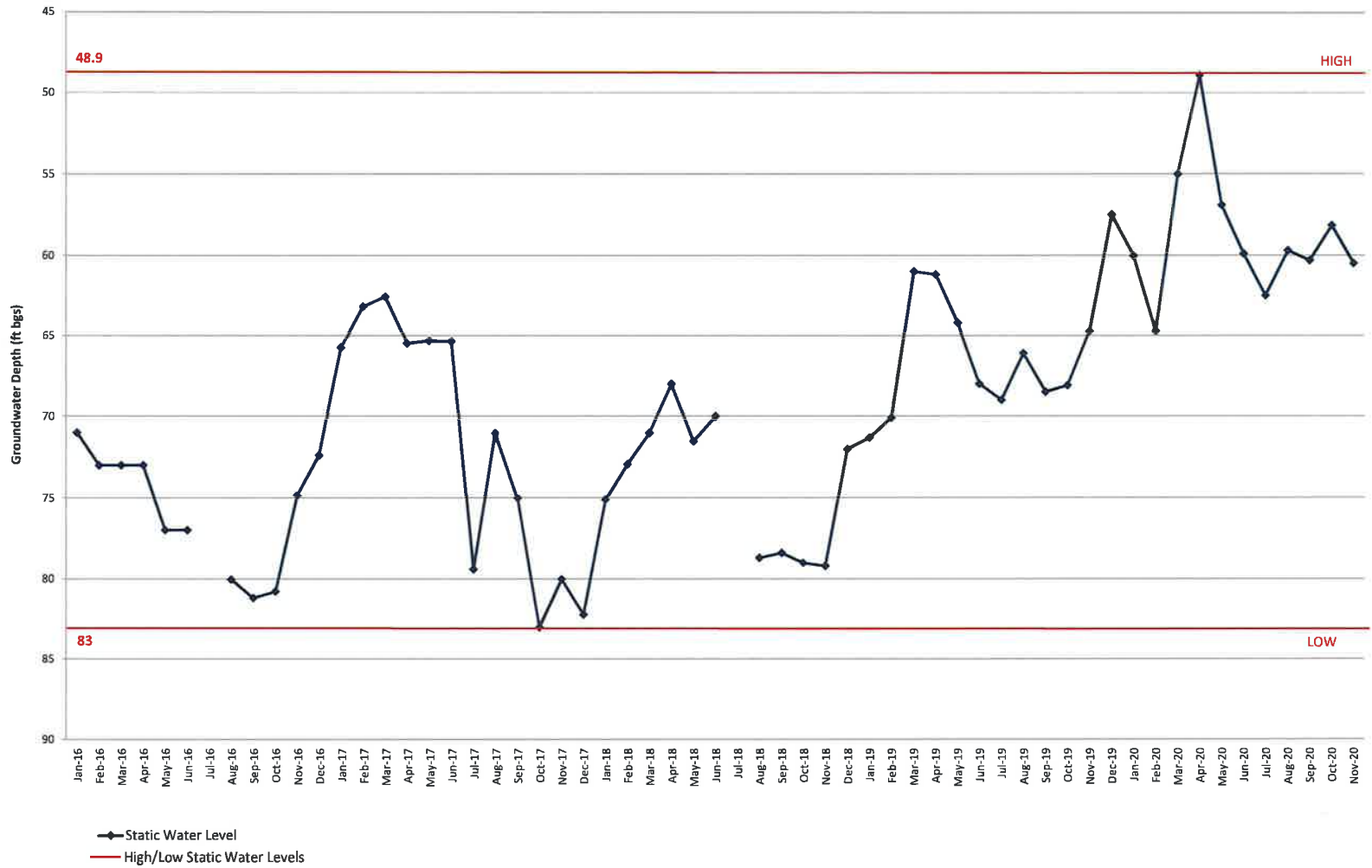
SCV WATER WELL Q2
STATIC WATER LEVEL



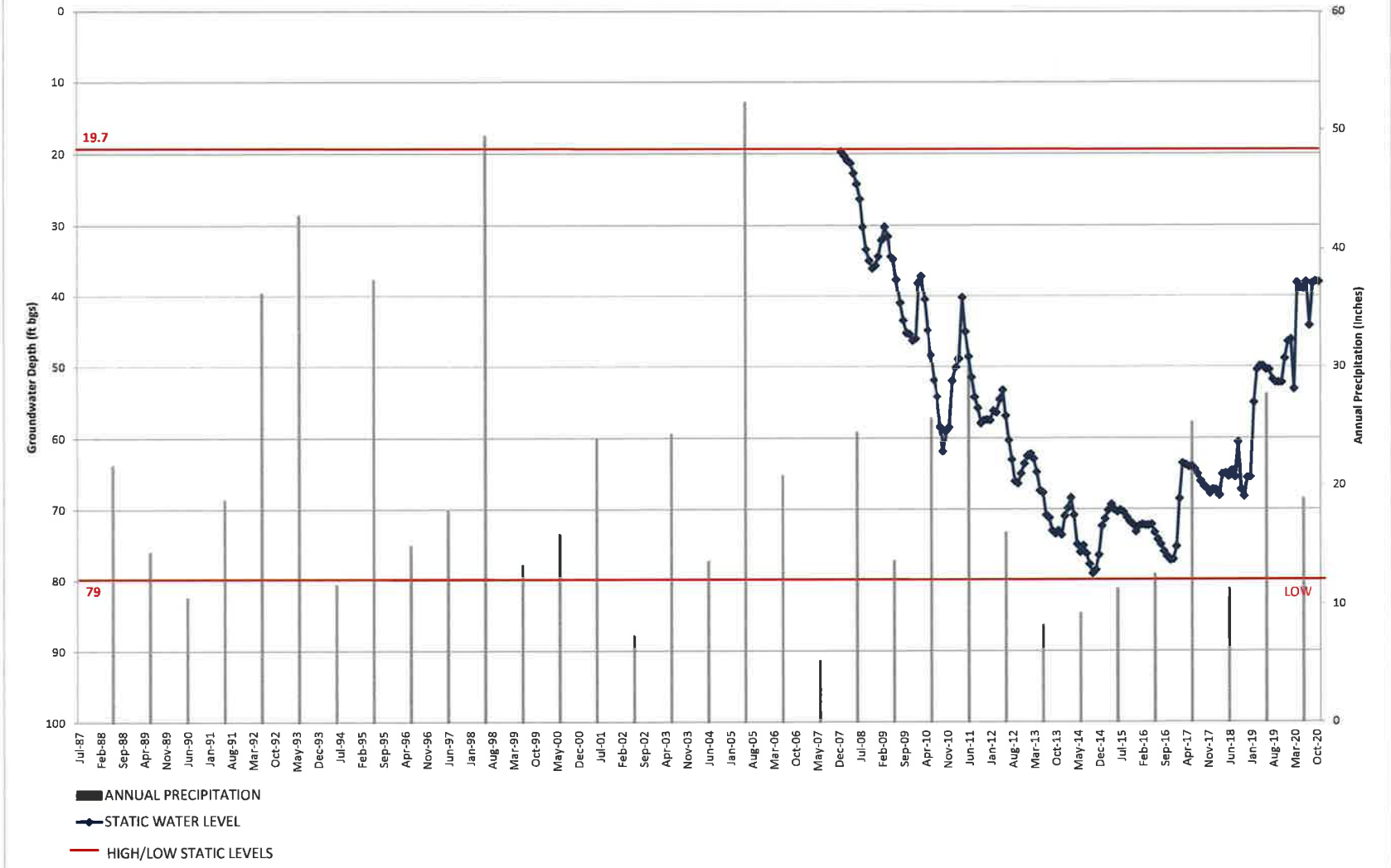
SCV WATER WELL GUIDA #14
STATIC WATER LEVEL VS PRECIPITATION



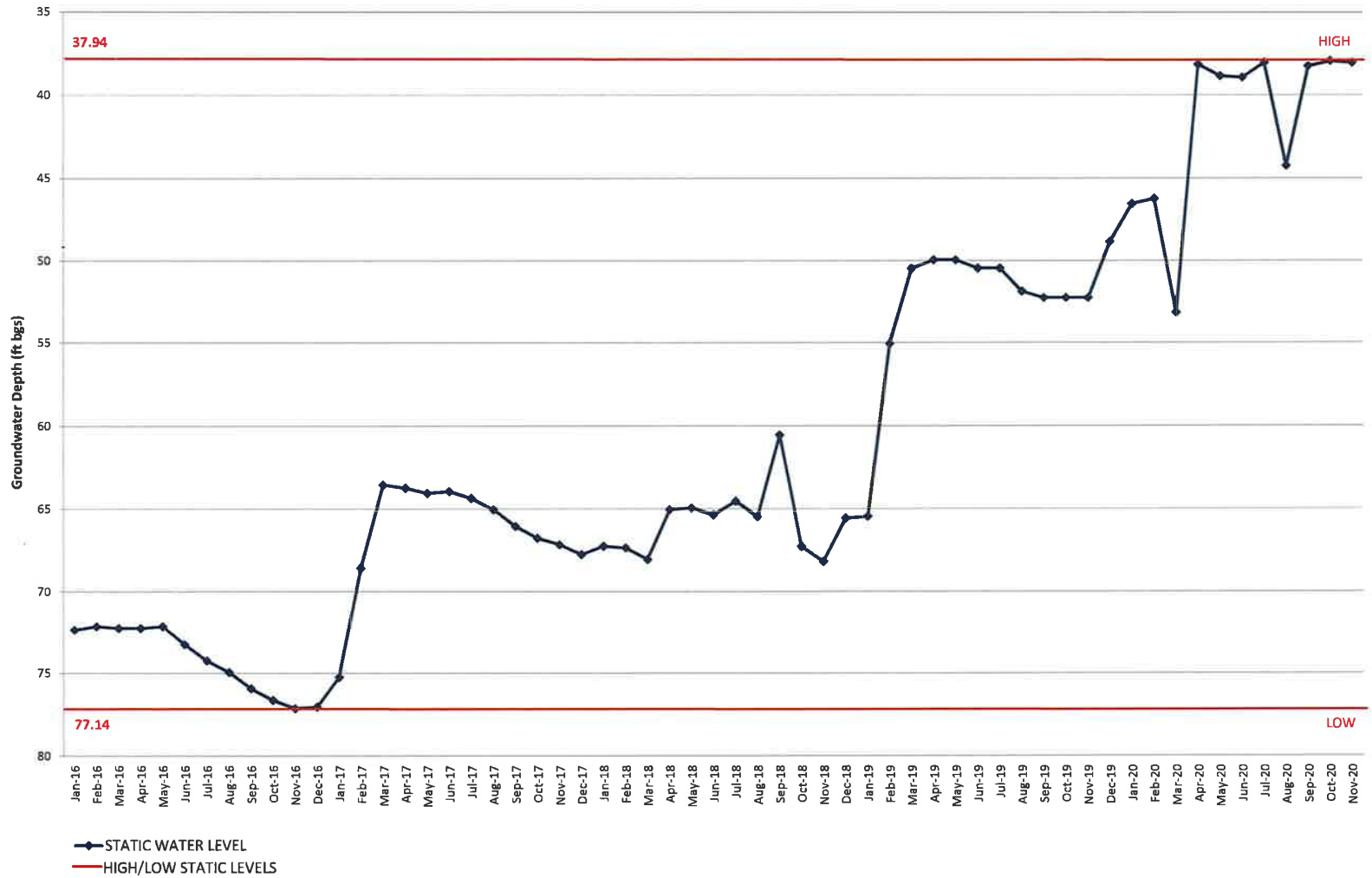
SCV WATER WELL GUIDA #14
STATIC WATER LEVEL



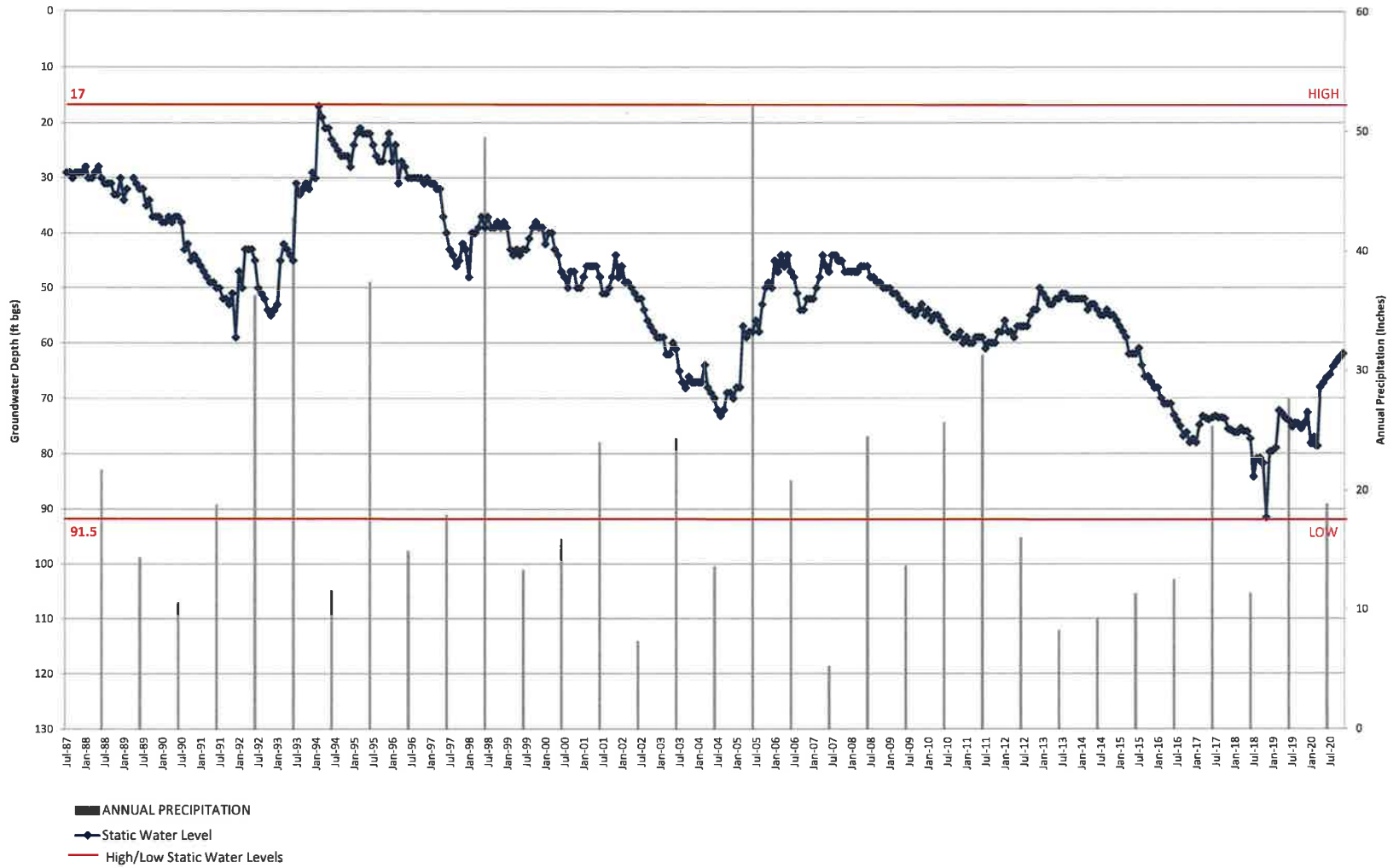
SCV WATER WELL T7
STATIC WATER LEVEL VS PRECIPITATION

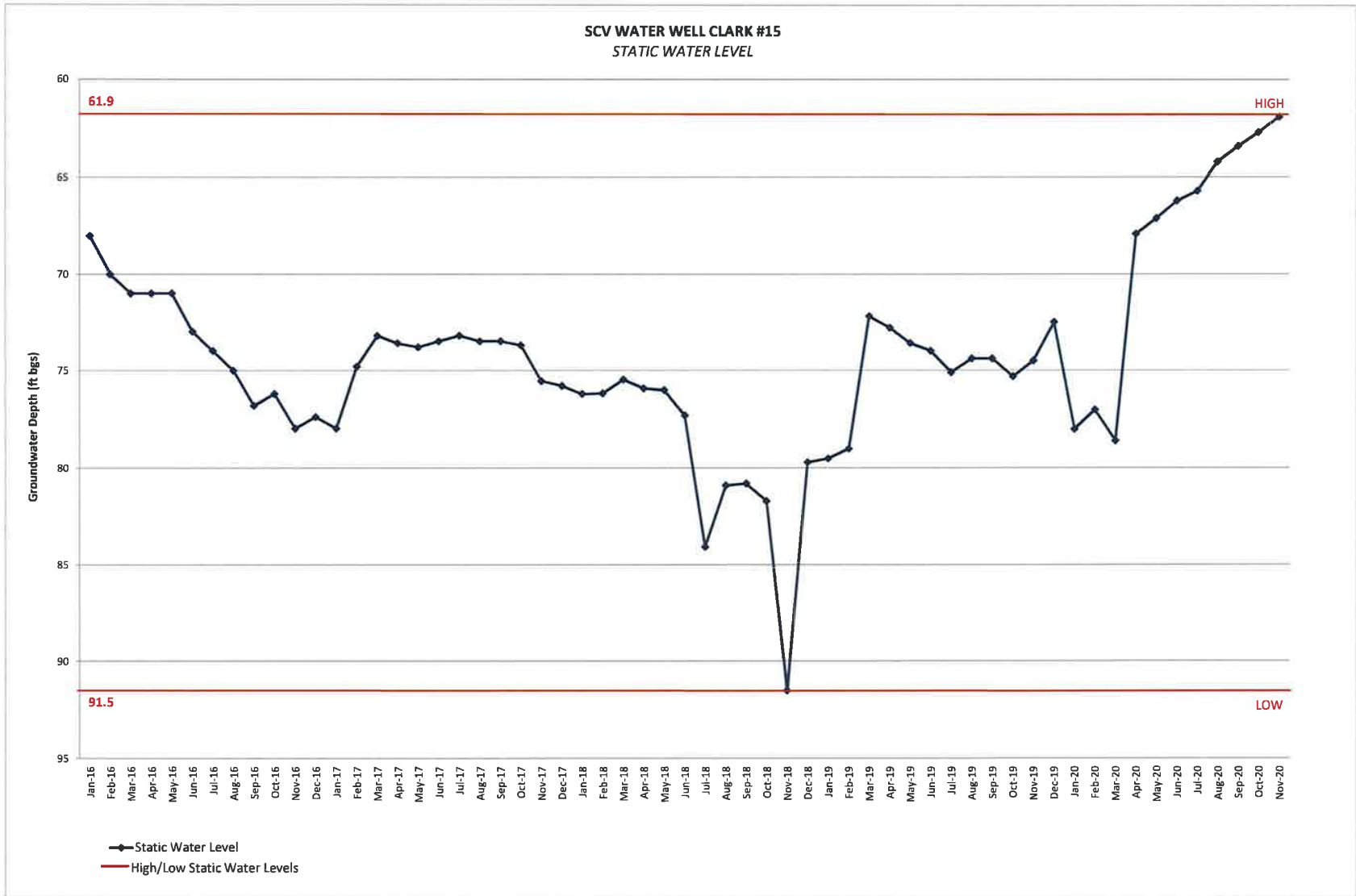


SCV WATER WELL T7
STATIC WATER LEVEL

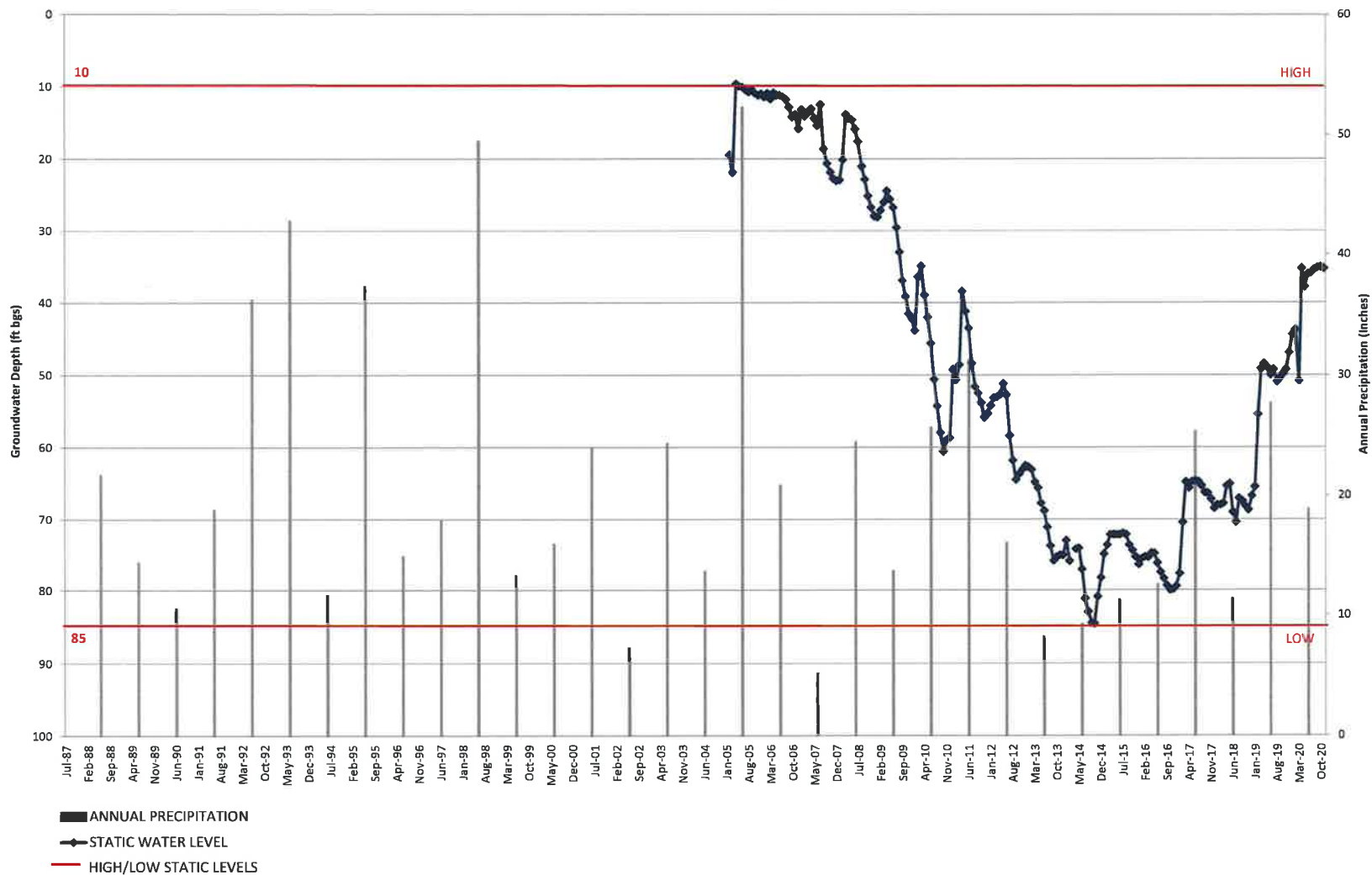


SCV WATER WELL CLARK #15
 STATIC WATER LEVEL VS PRECIPITATION

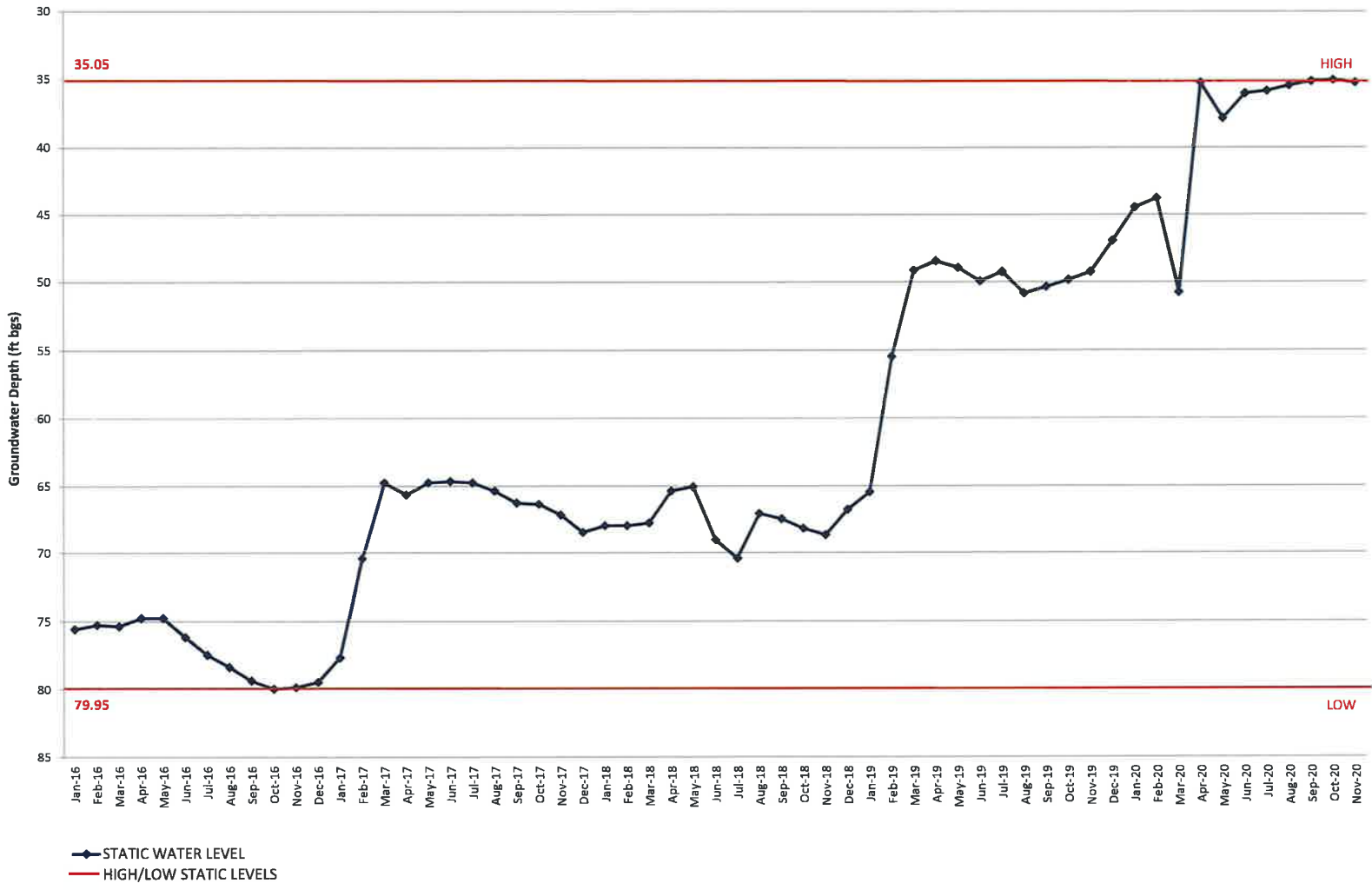




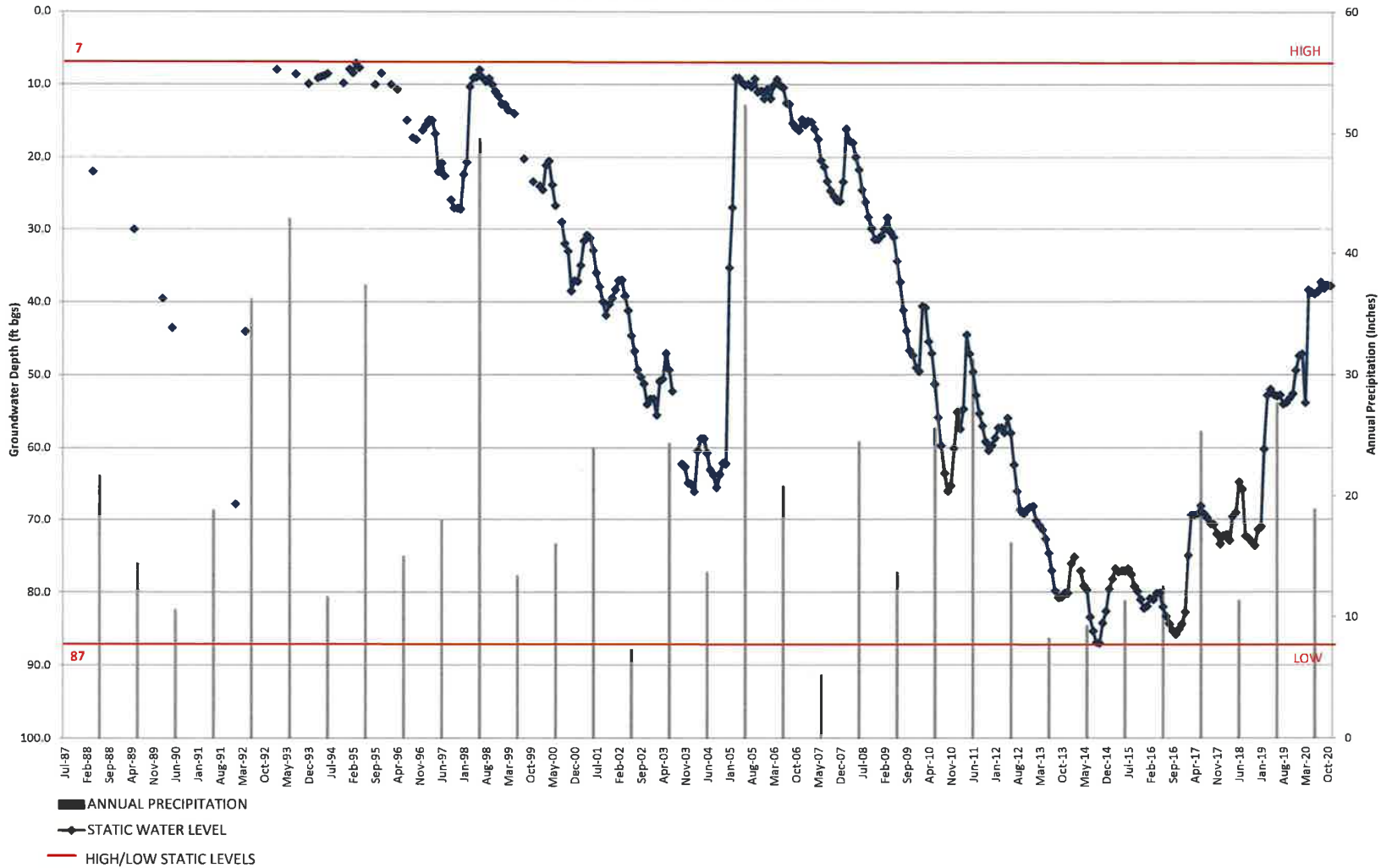
SCV WATER WELL U6
STATIC WATER LEVEL VS PRECIPITATION



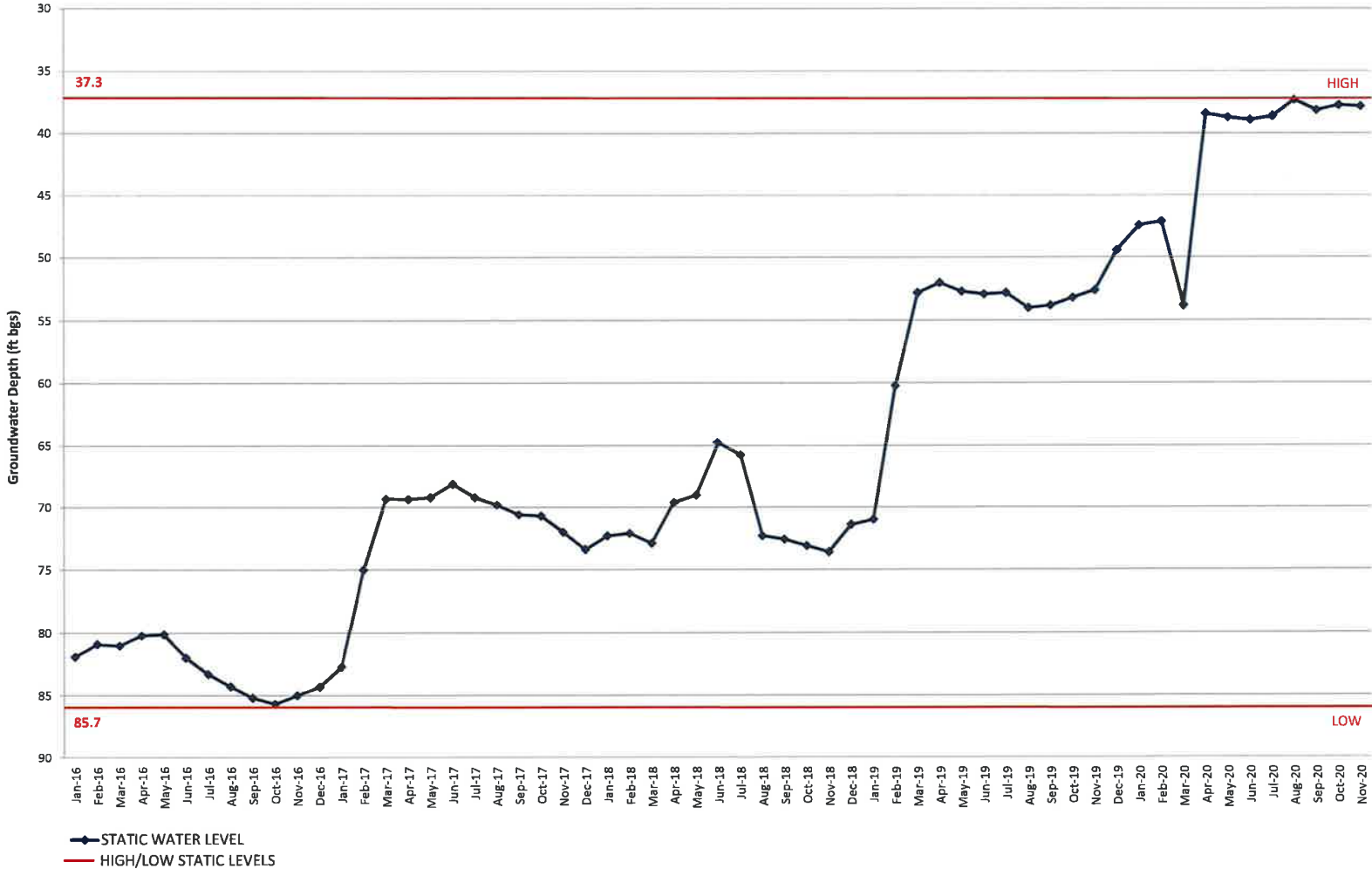
SCV WATER WELL U6
STATIC WATER LEVEL



SCV WATER WELL U4
 STATIC WATER LEVEL VS PRECIPITATION



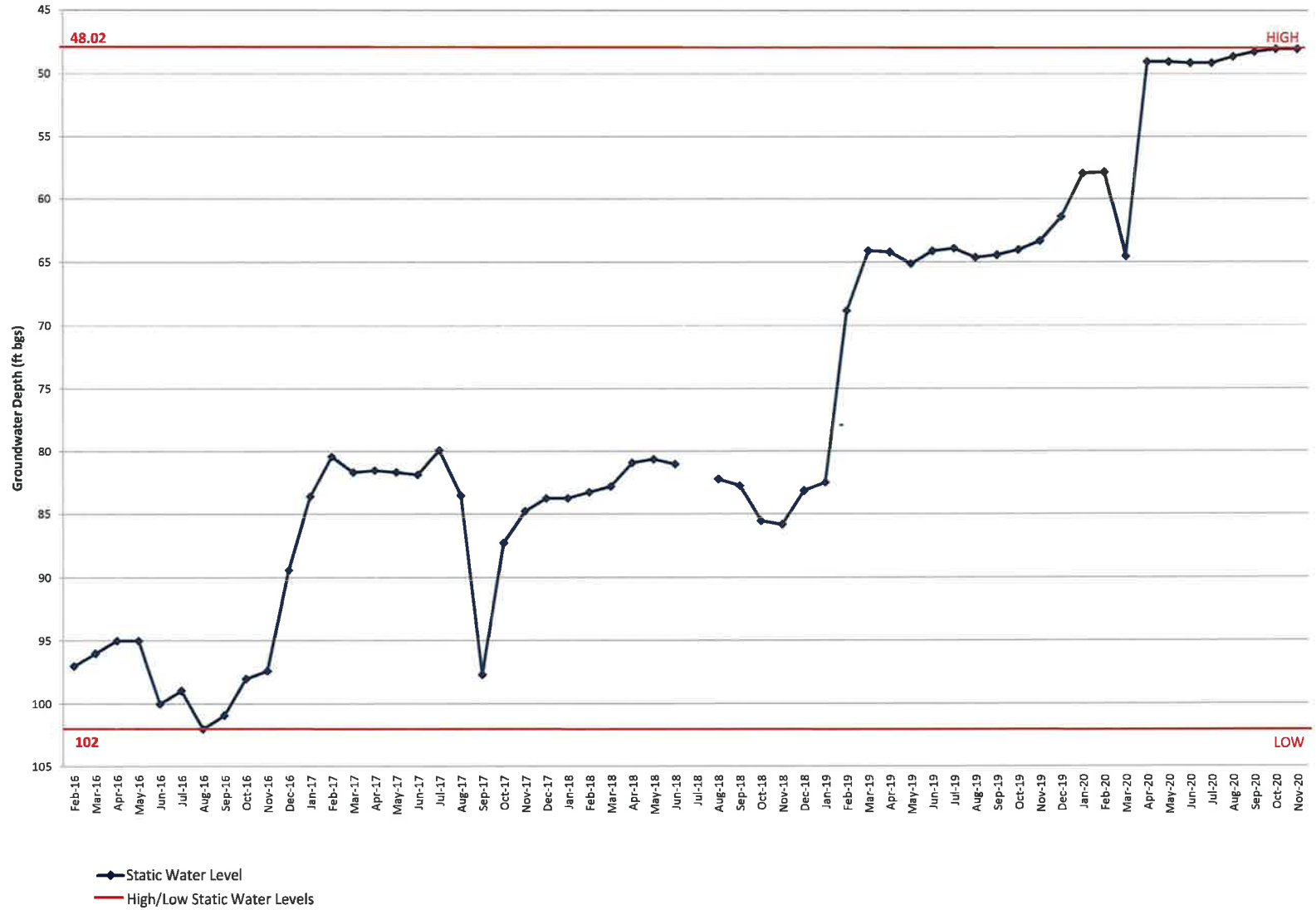
SCV WATER WELL U4
STATIC WATER LEVEL



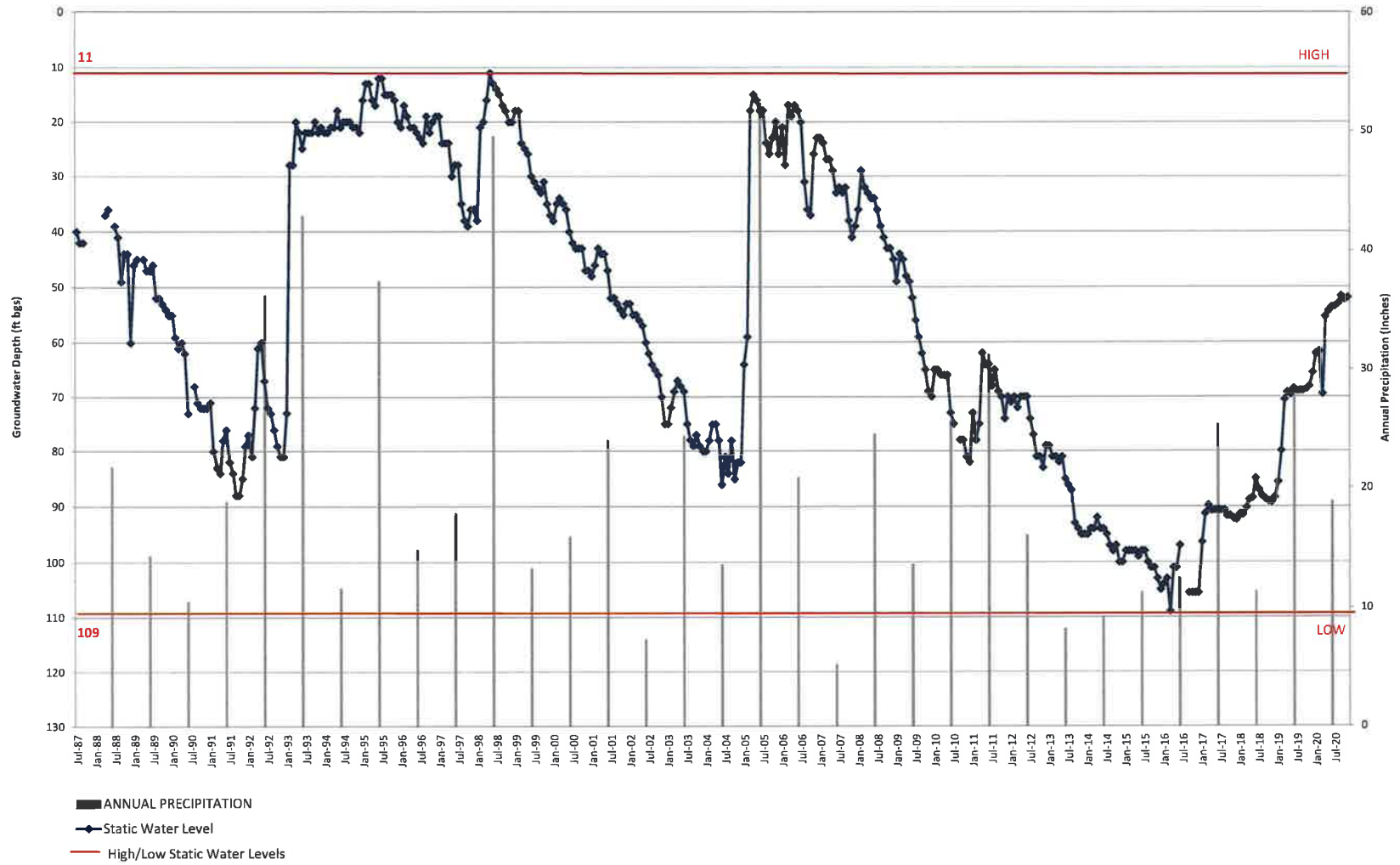
SCV WATER WELL VALLEY CENTER
STATIC WATER LEVEL VS PRECIPITATION



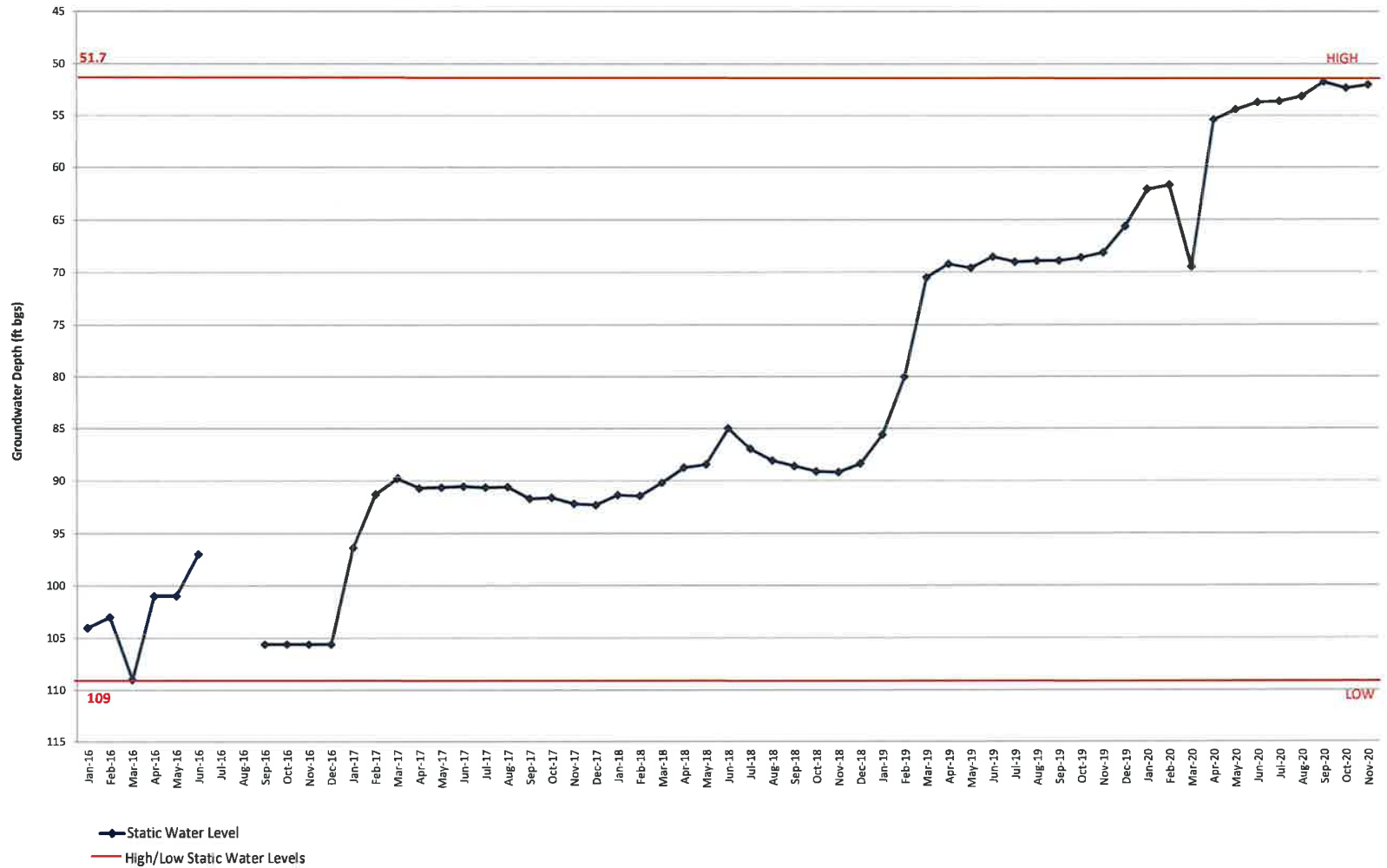
SCV WATER WELL VALLEY CENTER
 STATIC WATER LEVEL



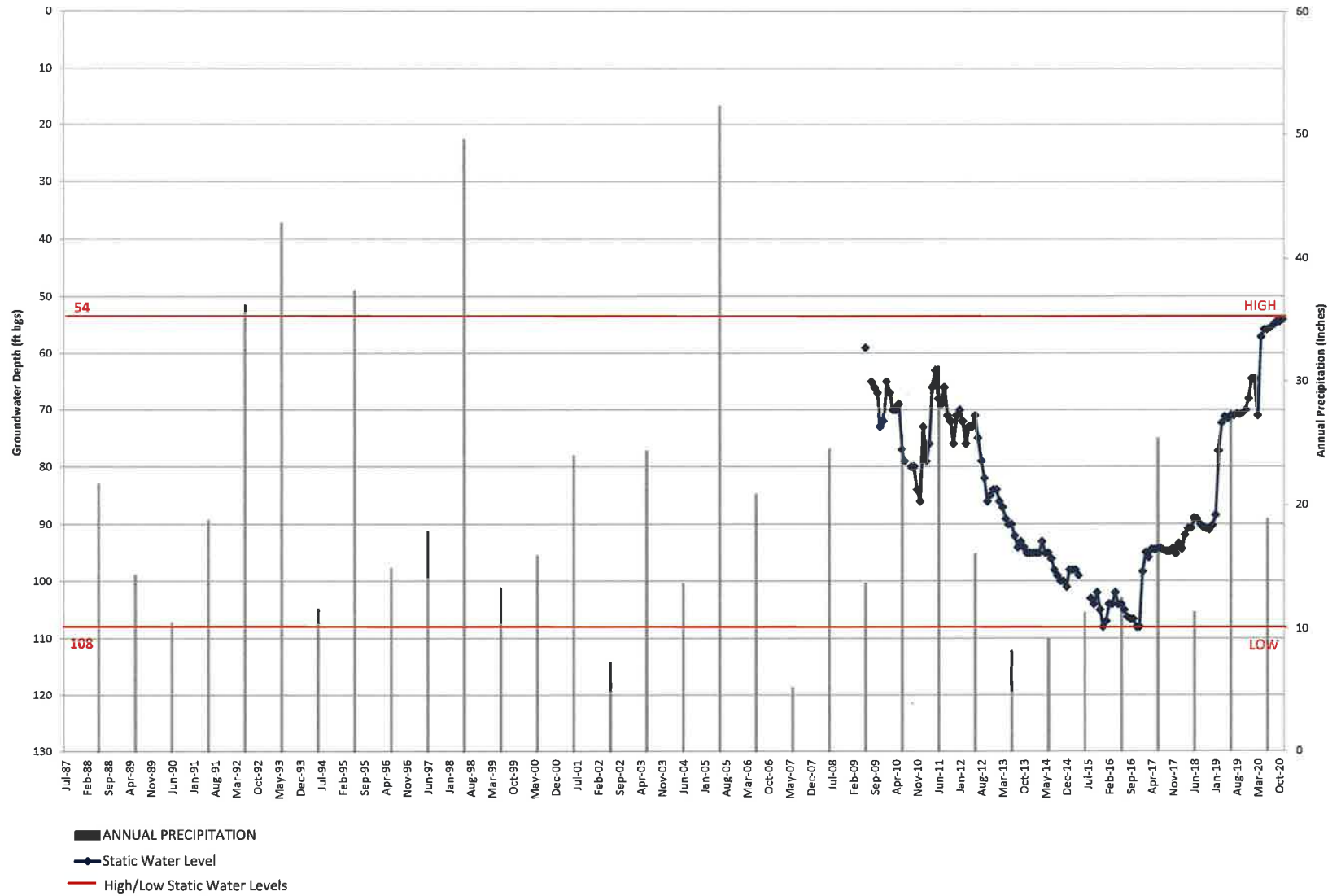
SCV WATER WELL HONBY #12
 STATIC WATER LEVEL VS PRECIPITATION



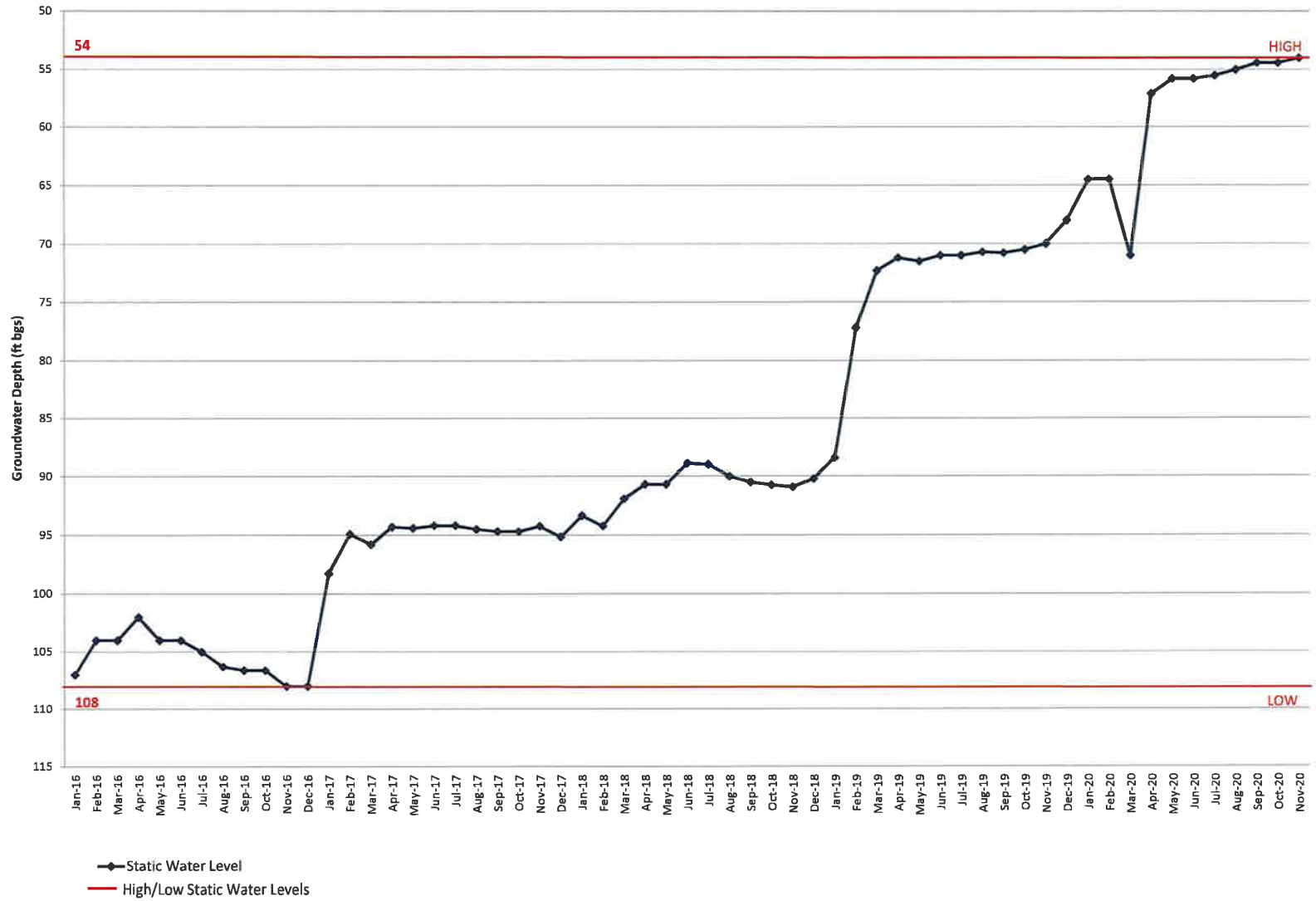
SCV WATER WELL HONBY #12
STATIC WATER LEVEL



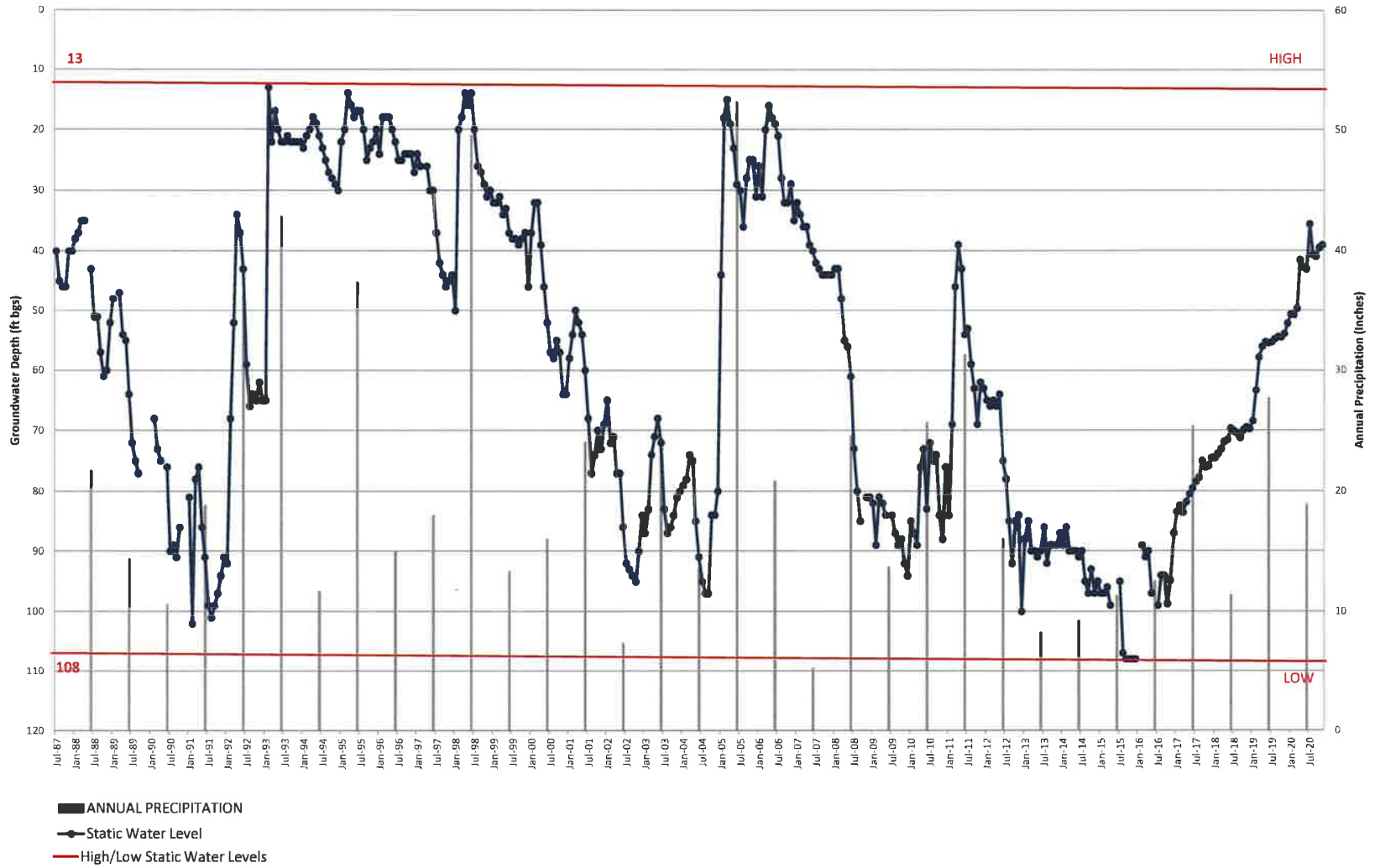
SCV WATER WELL SANTA CLARA
STATIC WATER LEVEL VS PRECIPITATION



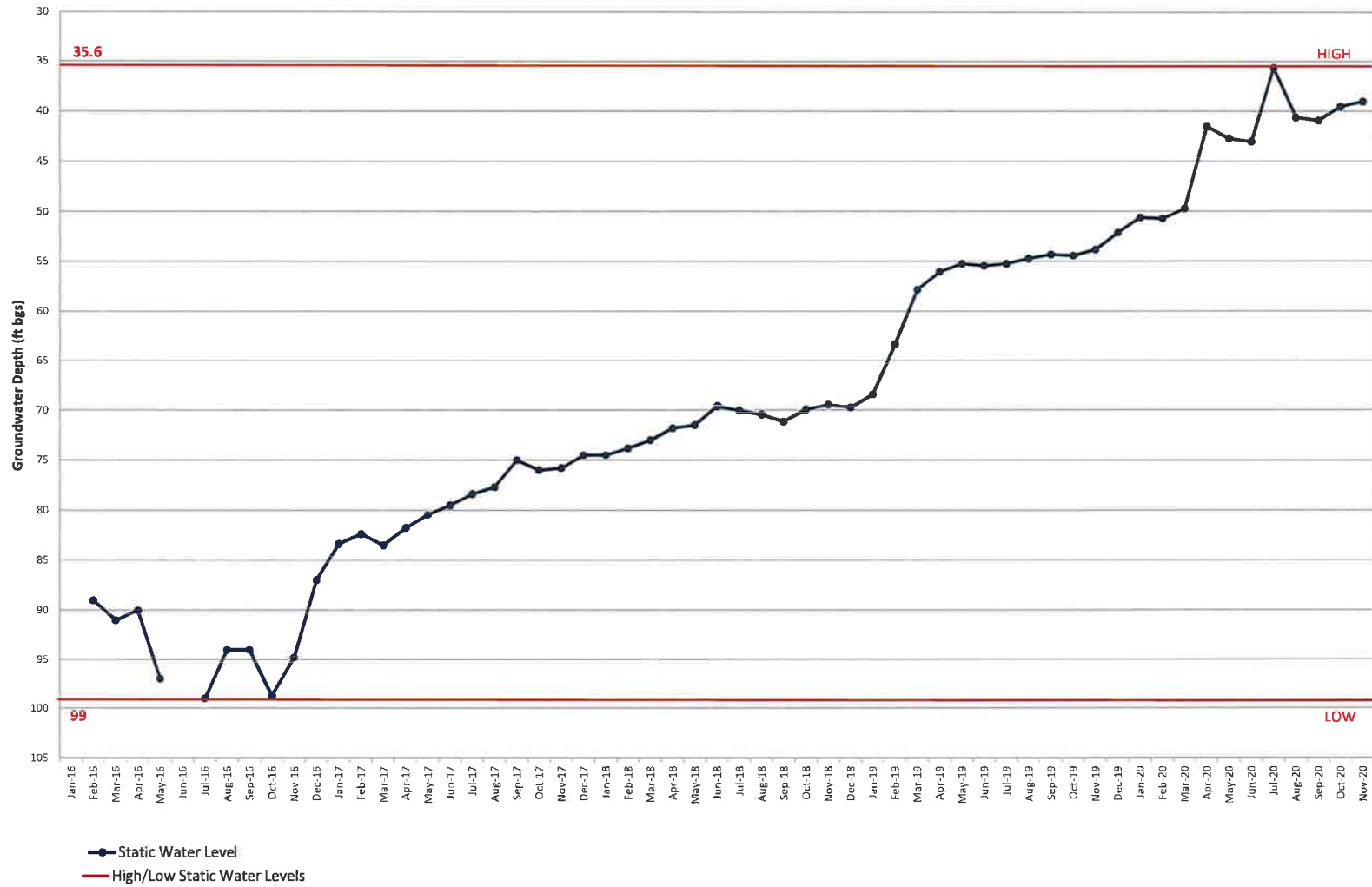
SCV WATER WELL SANTA CLARA
 STATIC WATER LEVEL



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



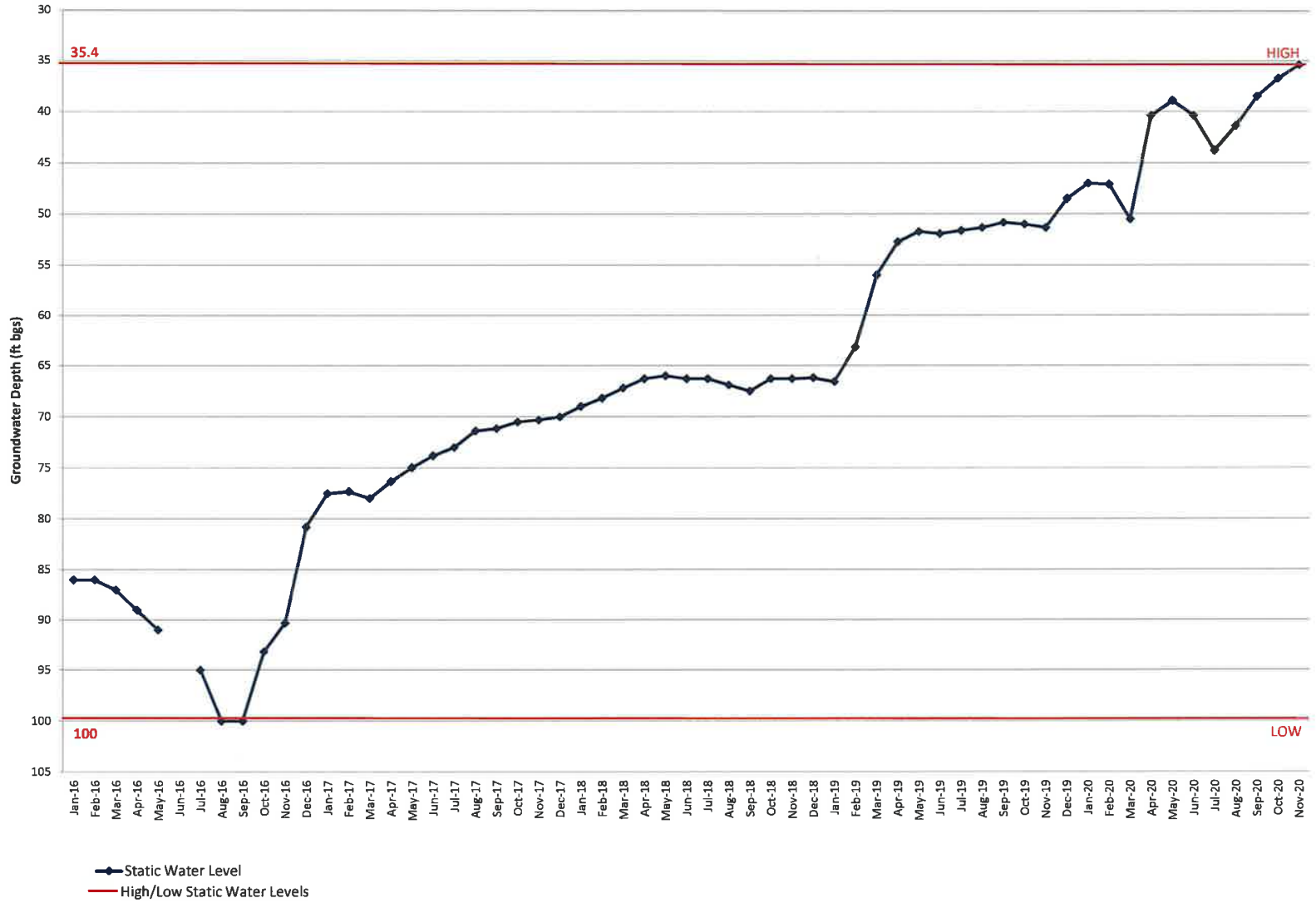
SCV WATER WELL NORTH OAKS CENTRAL #8
 STATIC WATER LEVEL



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



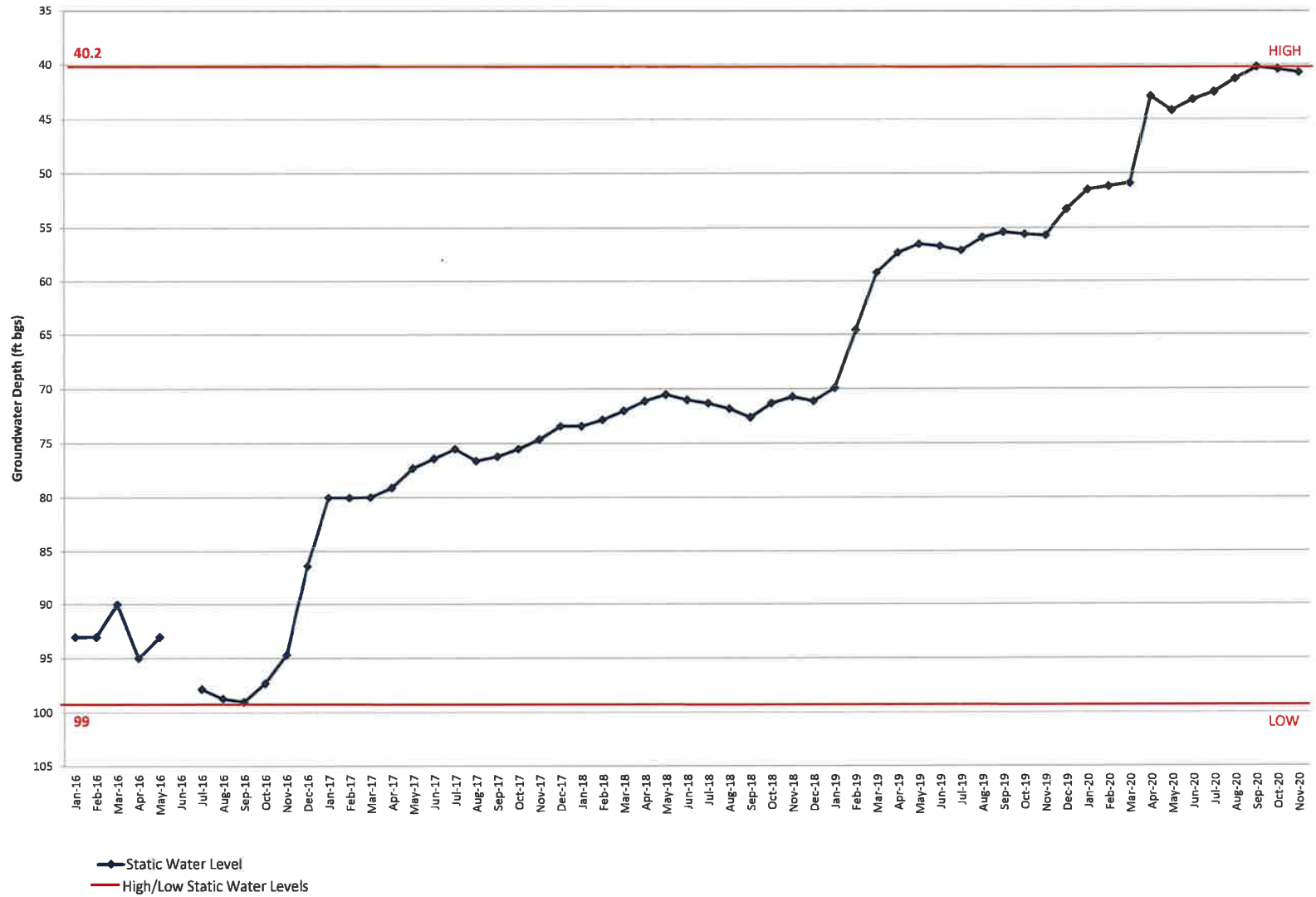
SCV WATER WELL NORTH OAKS WEST #9
 STATIC WATER LEVEL



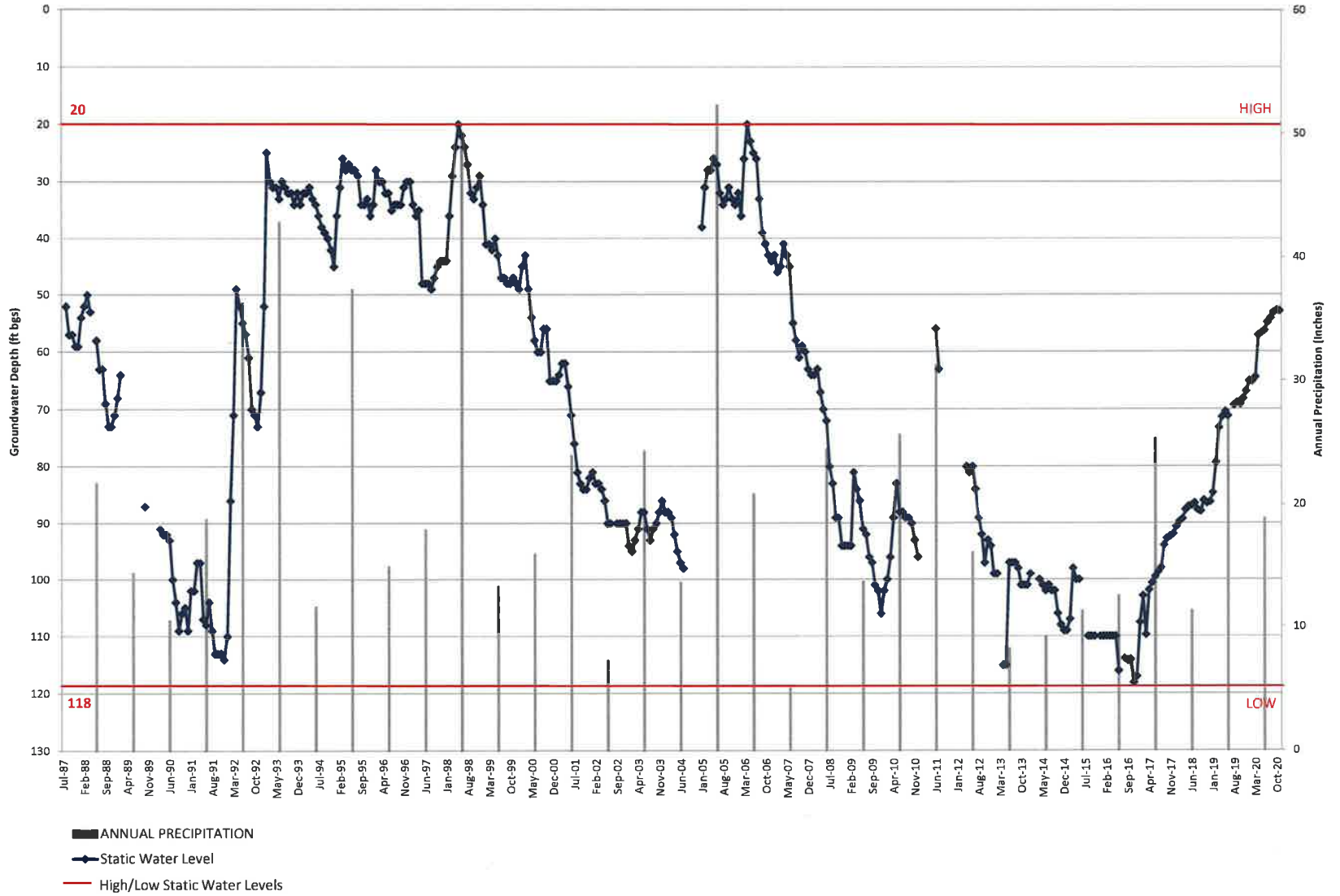
SCV WATER WELL NORTH OAKS EAST #7
 STATIC WATER LEVEL VS PRECIPITATION



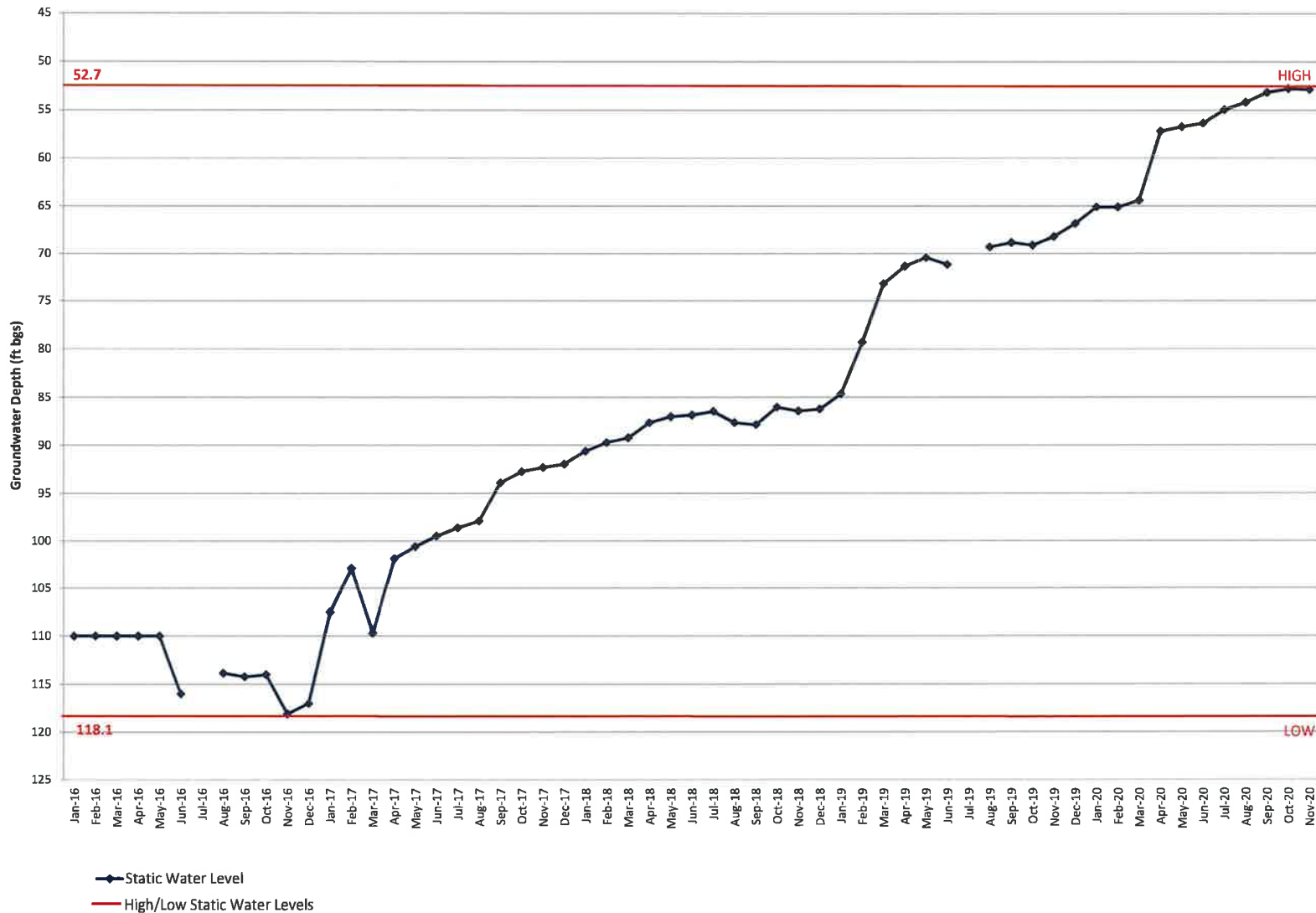
SCV WATER WELL NORTH OAKS EAST #7
 STATIC WATER LEVEL



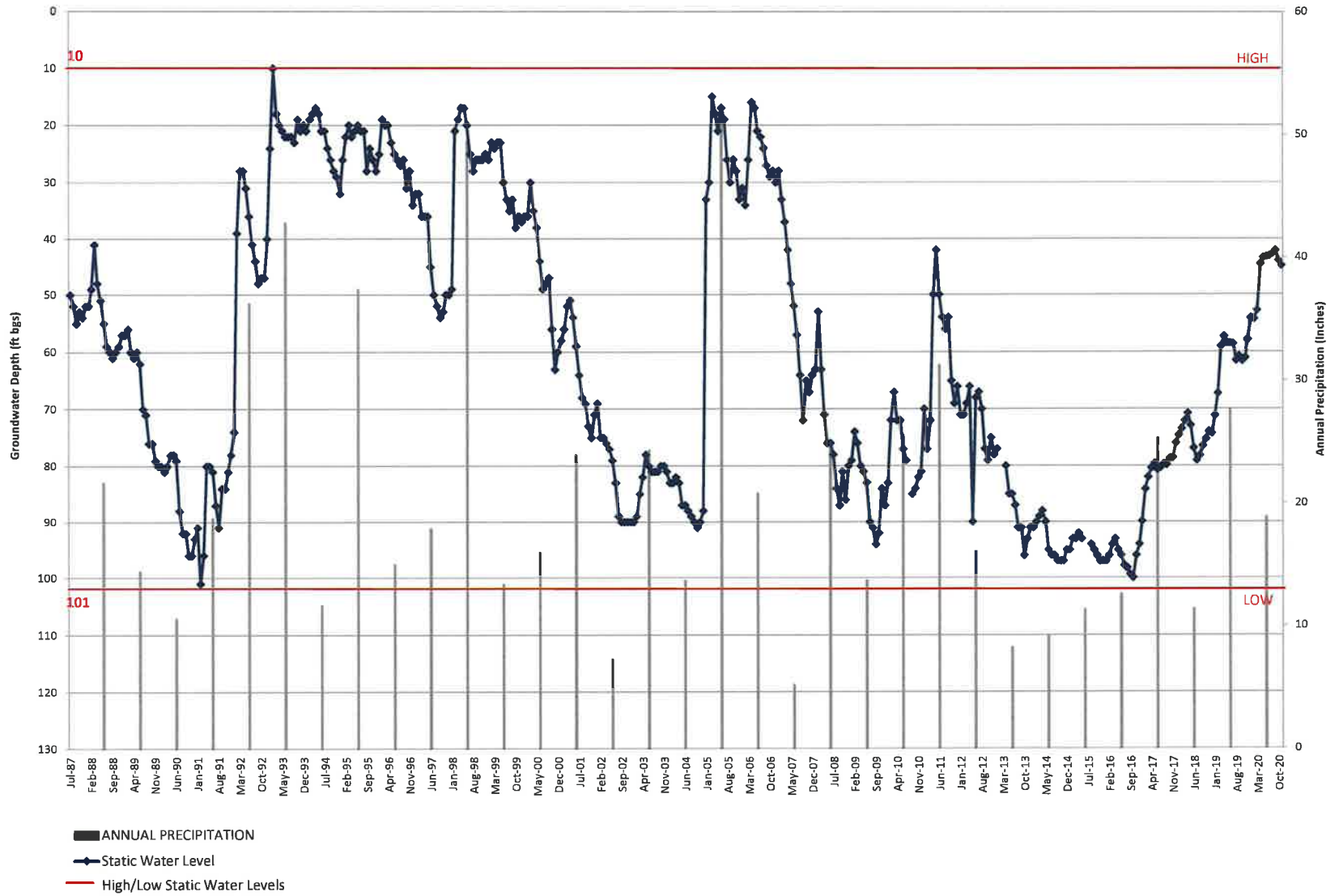
SCV WATER WELL SIERRA #6
STATIC WATER LEVEL VS PRECIPITATION



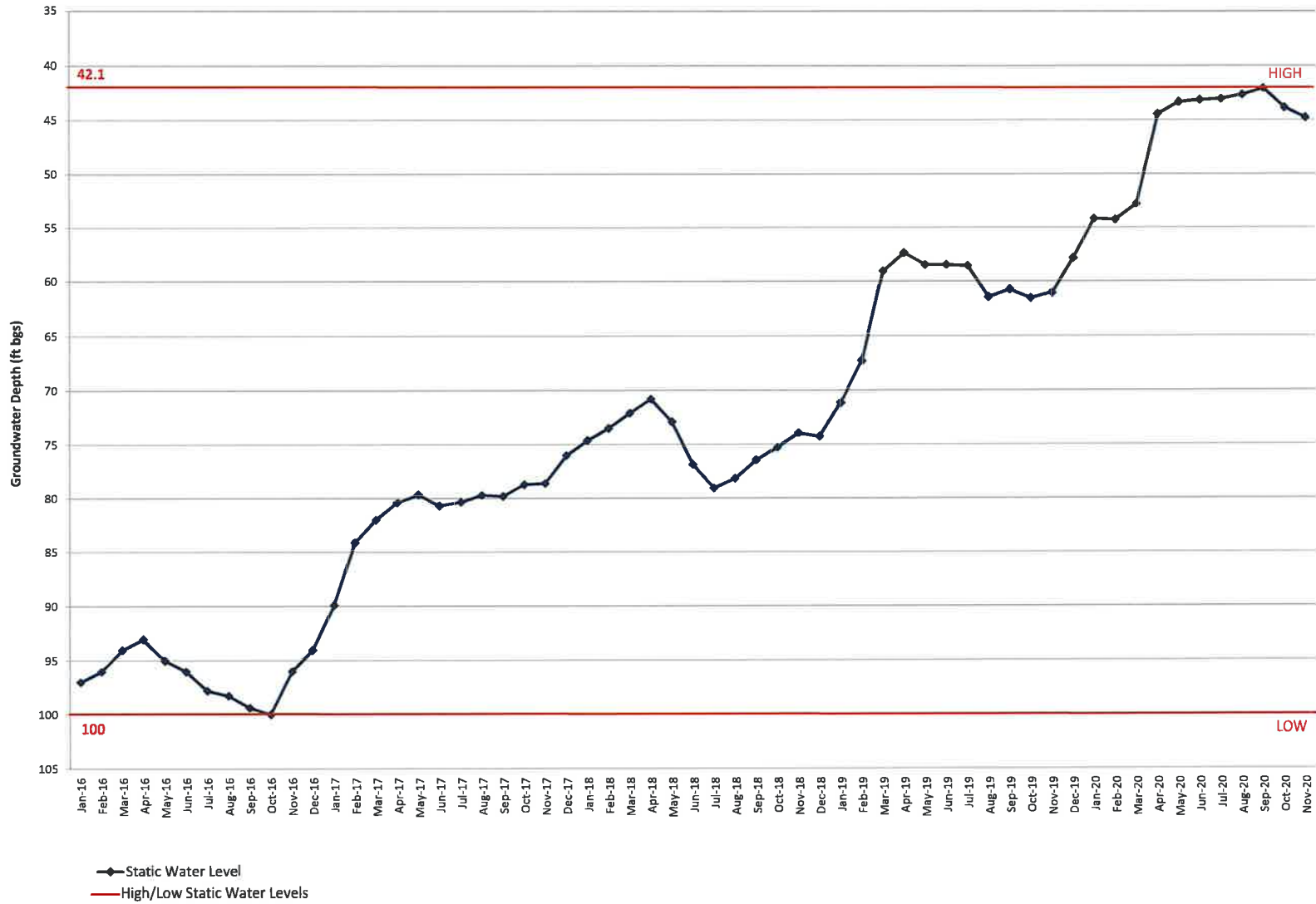
SCV WATER WELL SIERRA #6
 STATIC WATER LEVEL



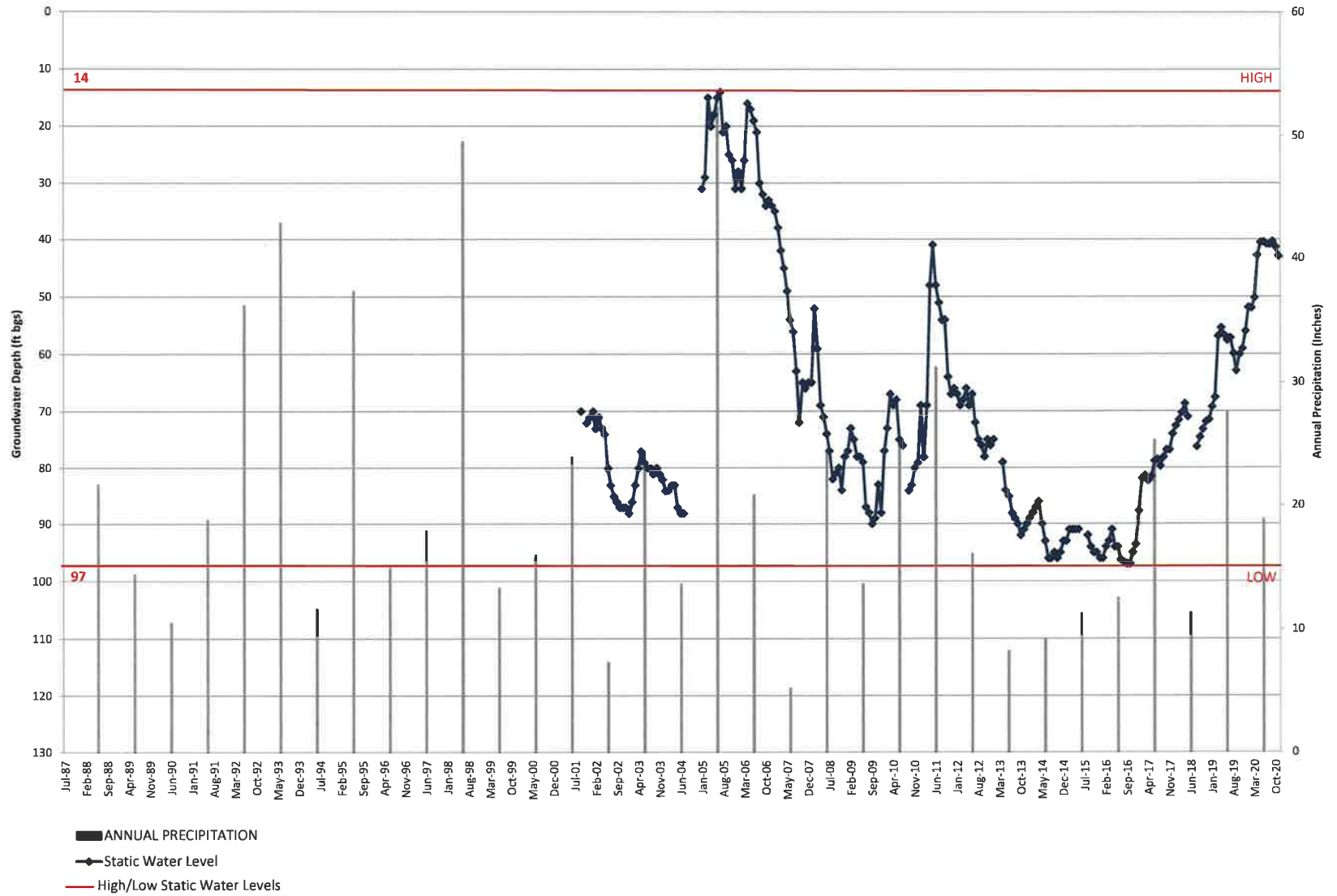
SCV WATER WELL MITCHELL #5A
STATIC WATER LEVEL VS PRECIPITATION



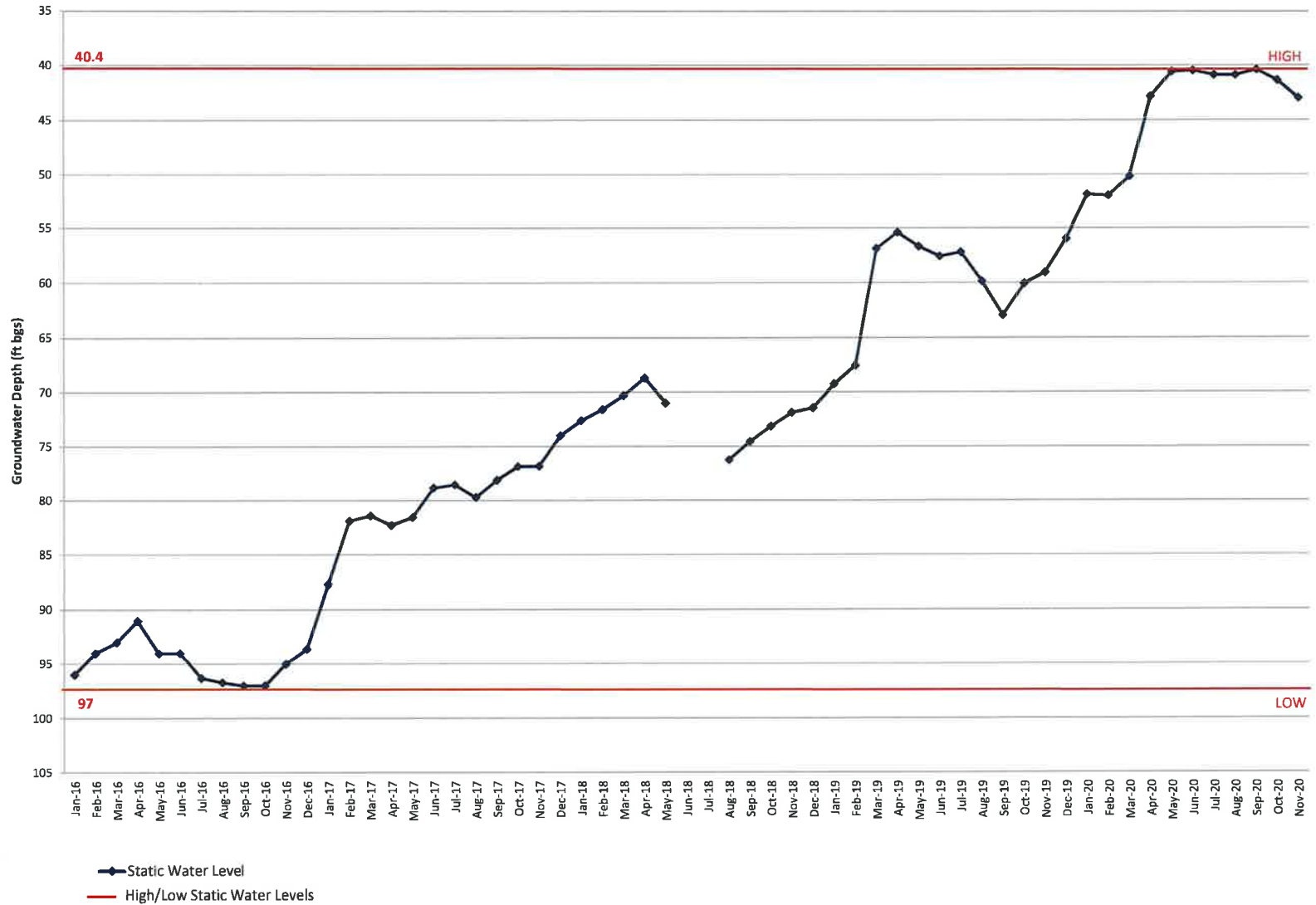
SCV WATER WELL MITCHELL #5A
 STATIC WATER LEVEL



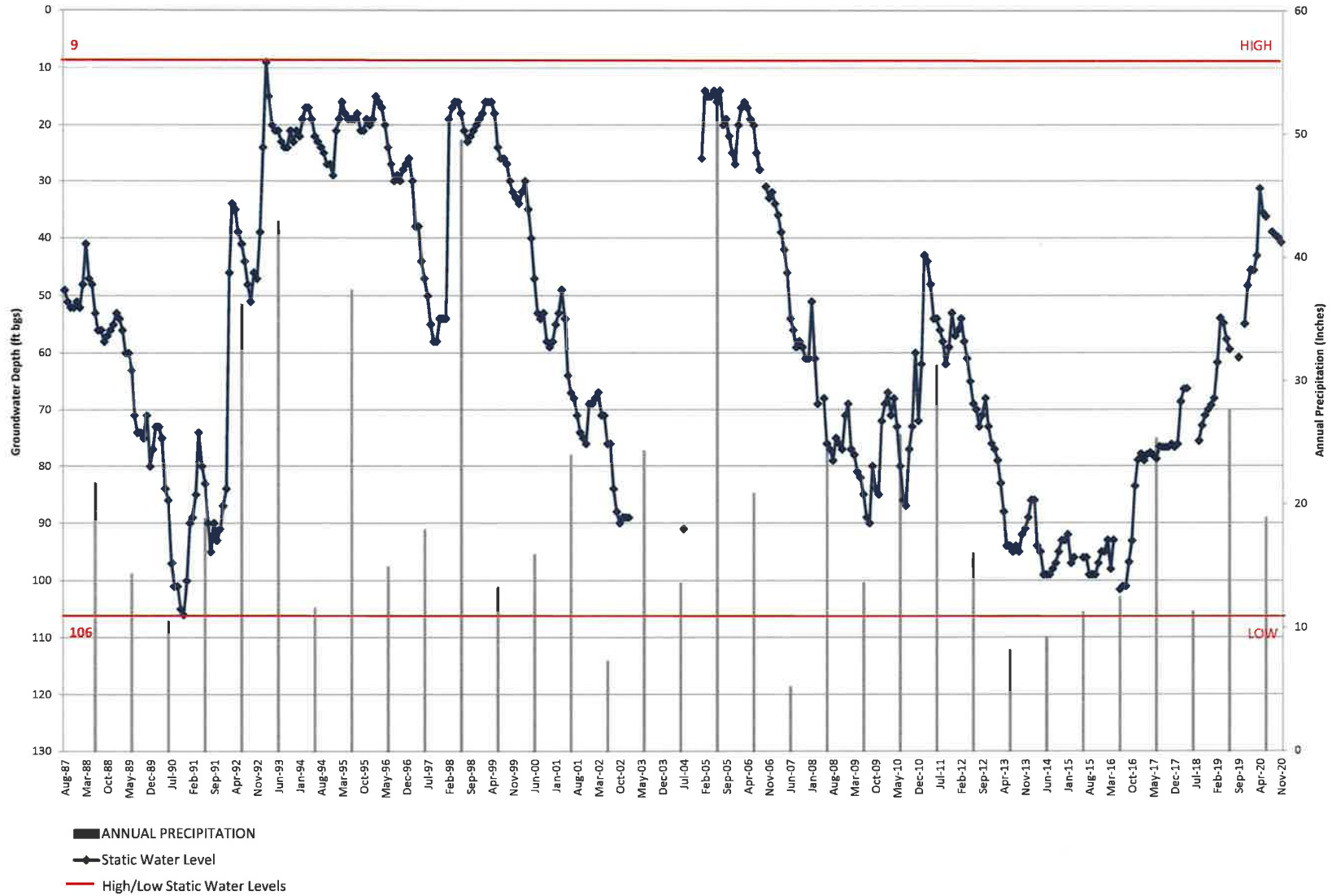
SCV WATER WELL MITCHELL #5B
STATIC WATER LEVEL VS PRECIPITATION



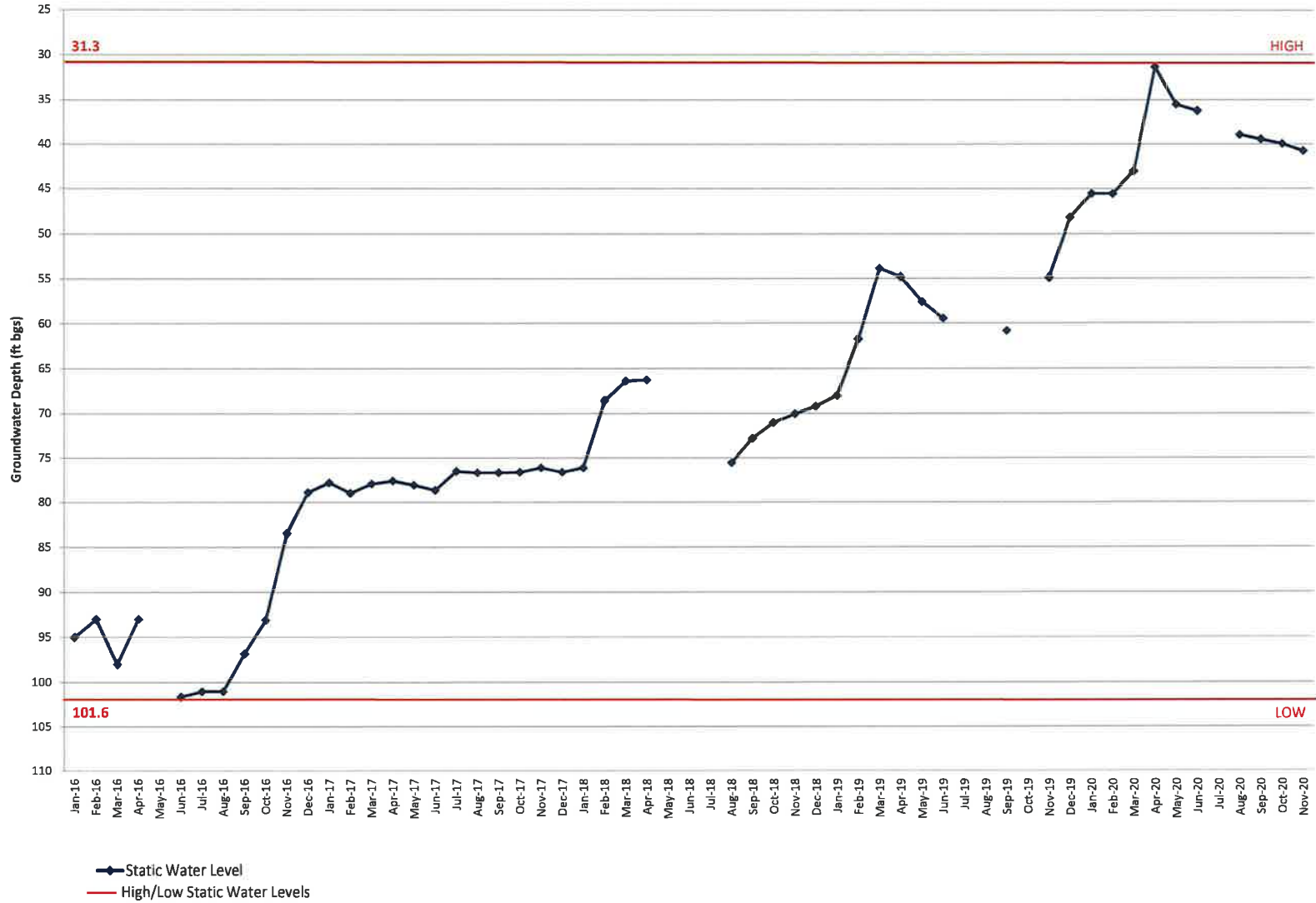
SCV WATER WELL MITCHELL #5B
 STATIC WATER LEVEL



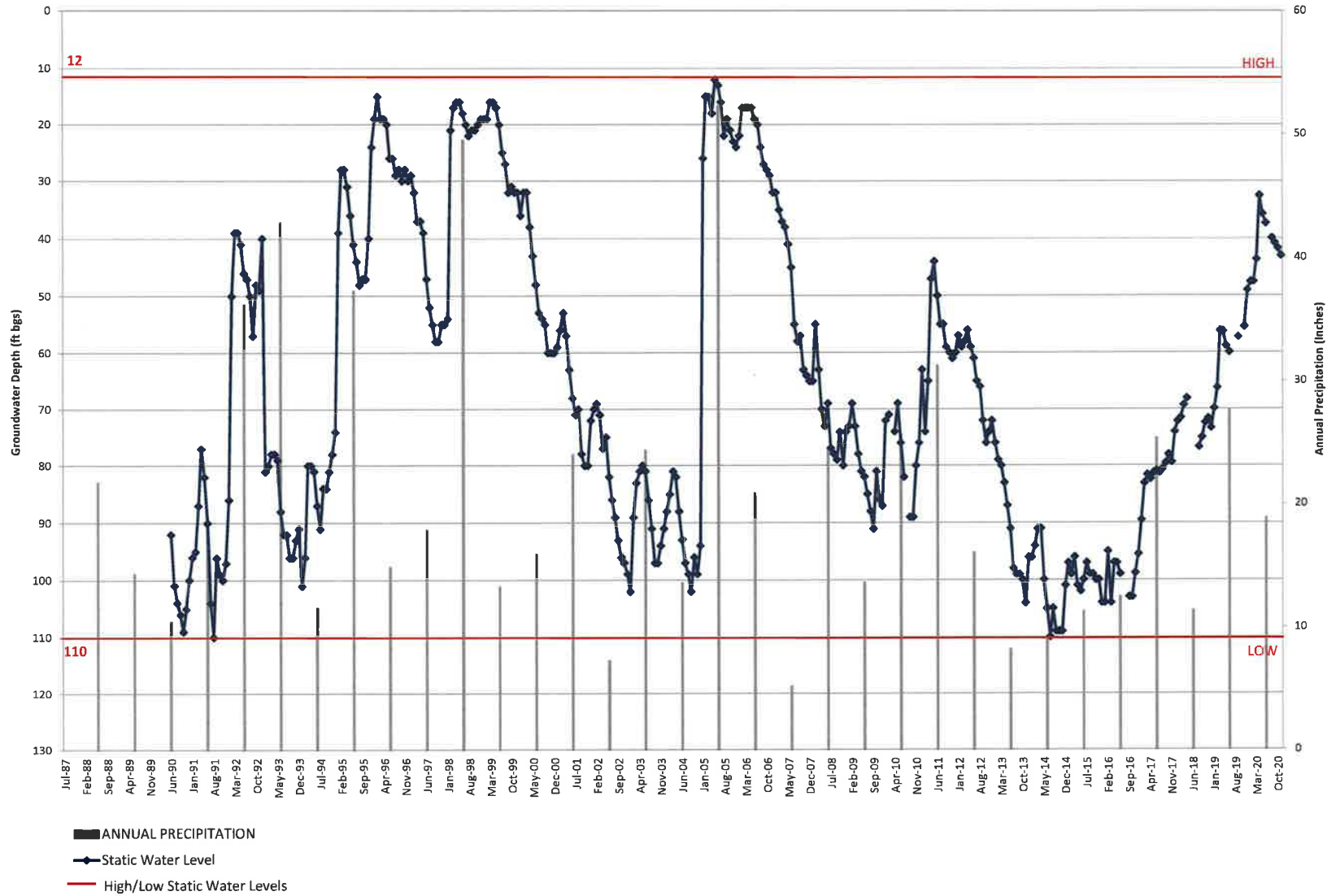
SCV WATER WELL SAND CANYON #3
STATIC WATER LEVEL VS PRECIPITATION



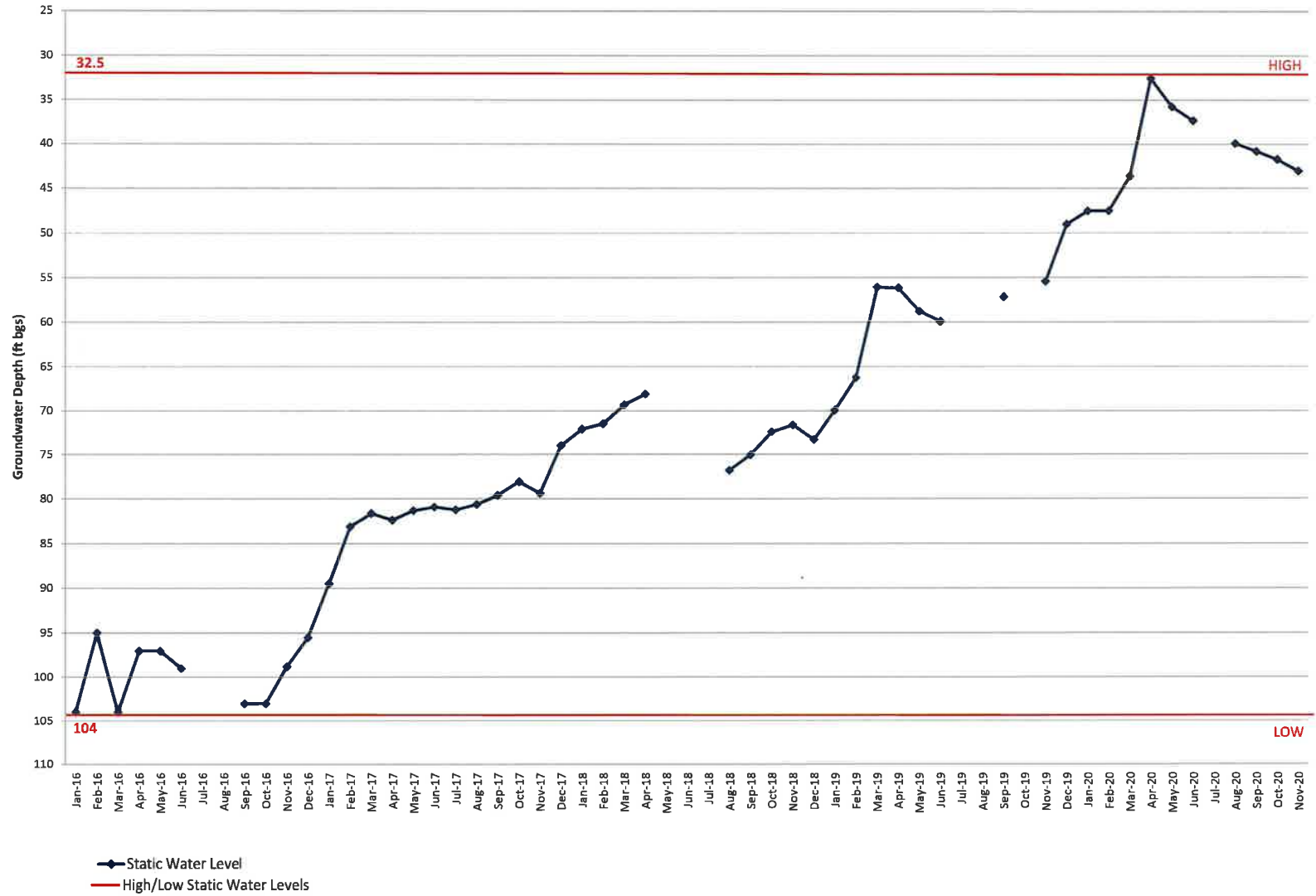
SCV WATER WELL SAND CANYON #3
 STATIC WATER LEVEL



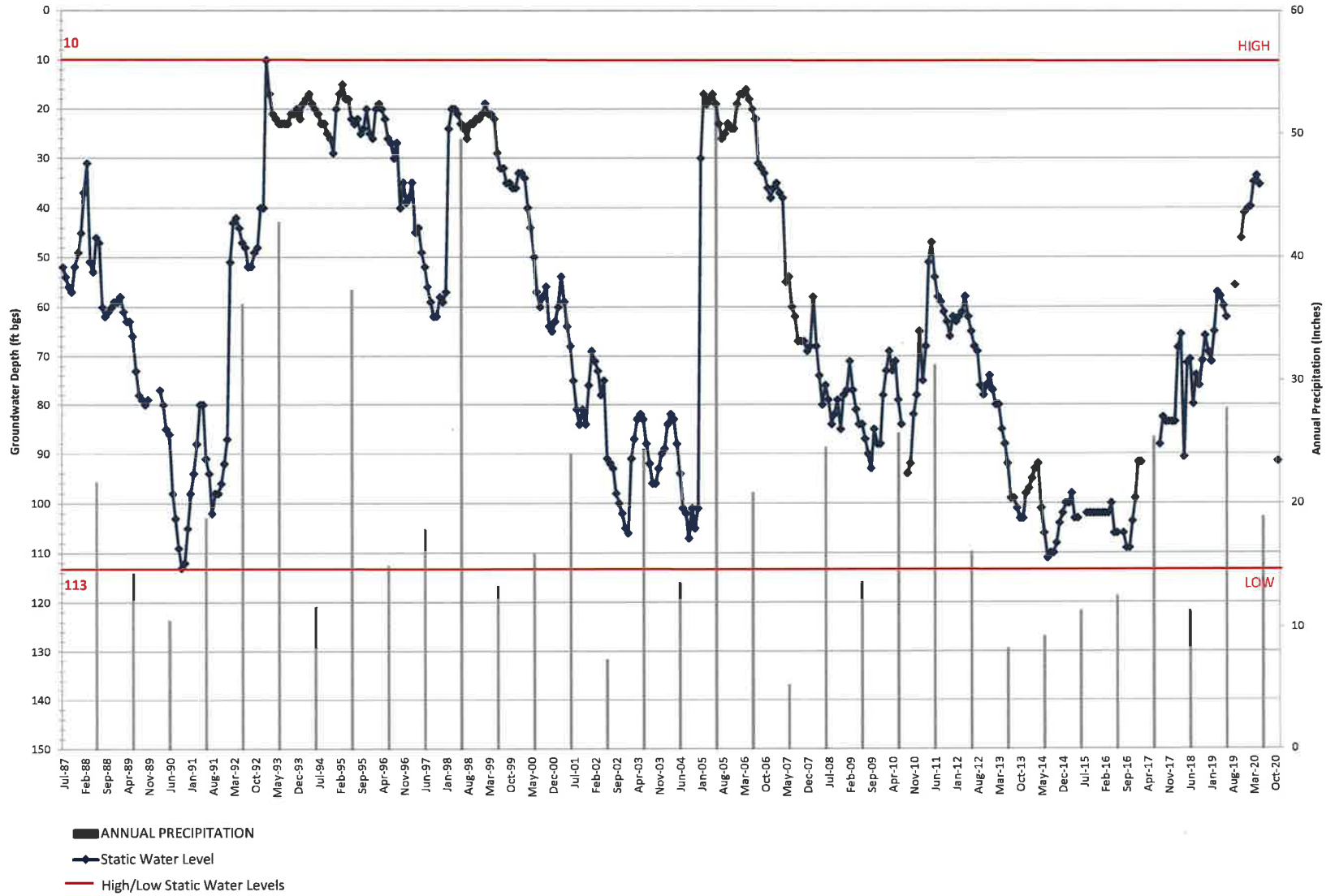
SCV WATER WELL LOST CANYON #2A
 STATIC WATER LEVEL VS PRECIPITATION



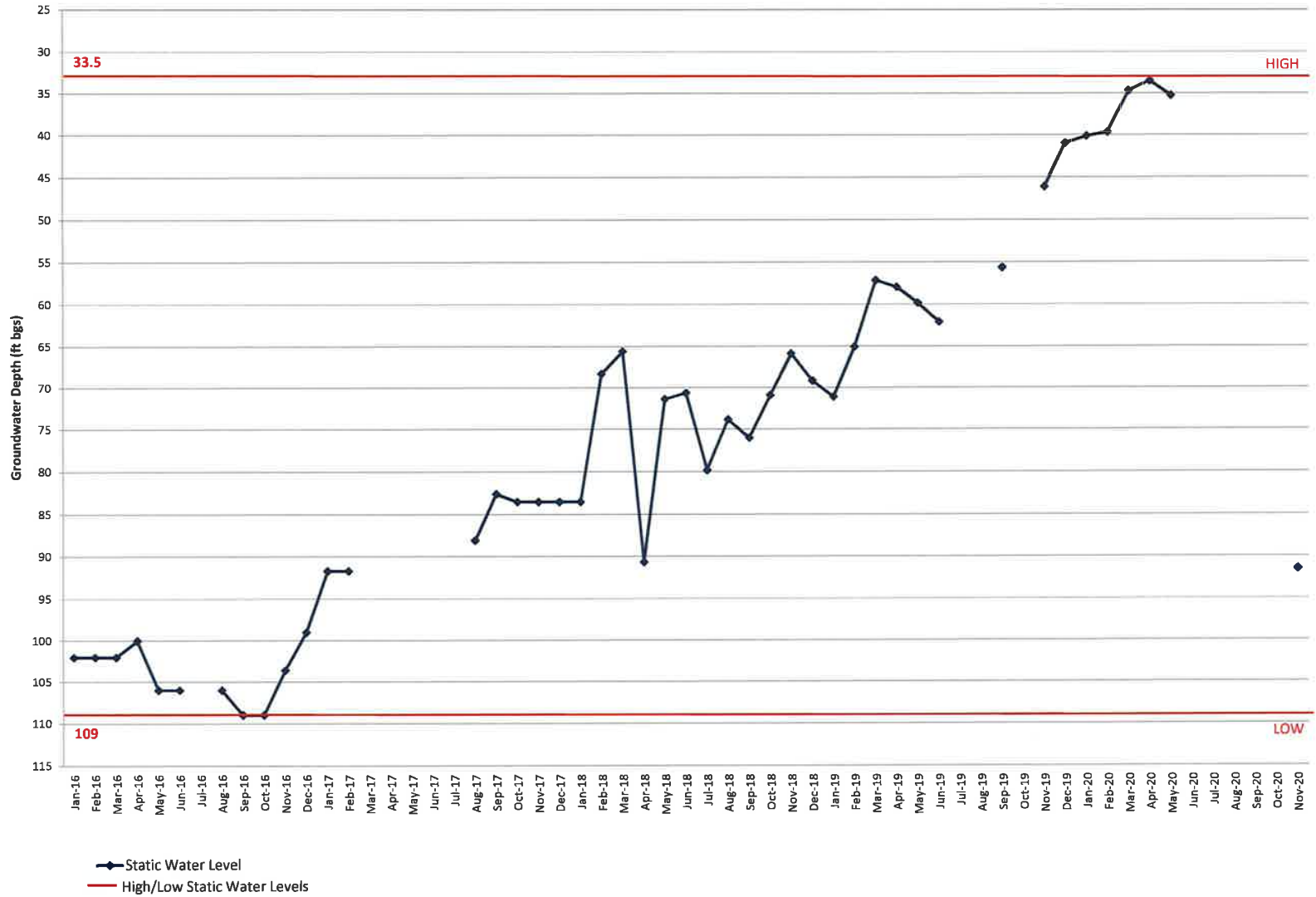
SCV WATER WELL LOST CANYON #2A
 STATIC WATER LEVEL



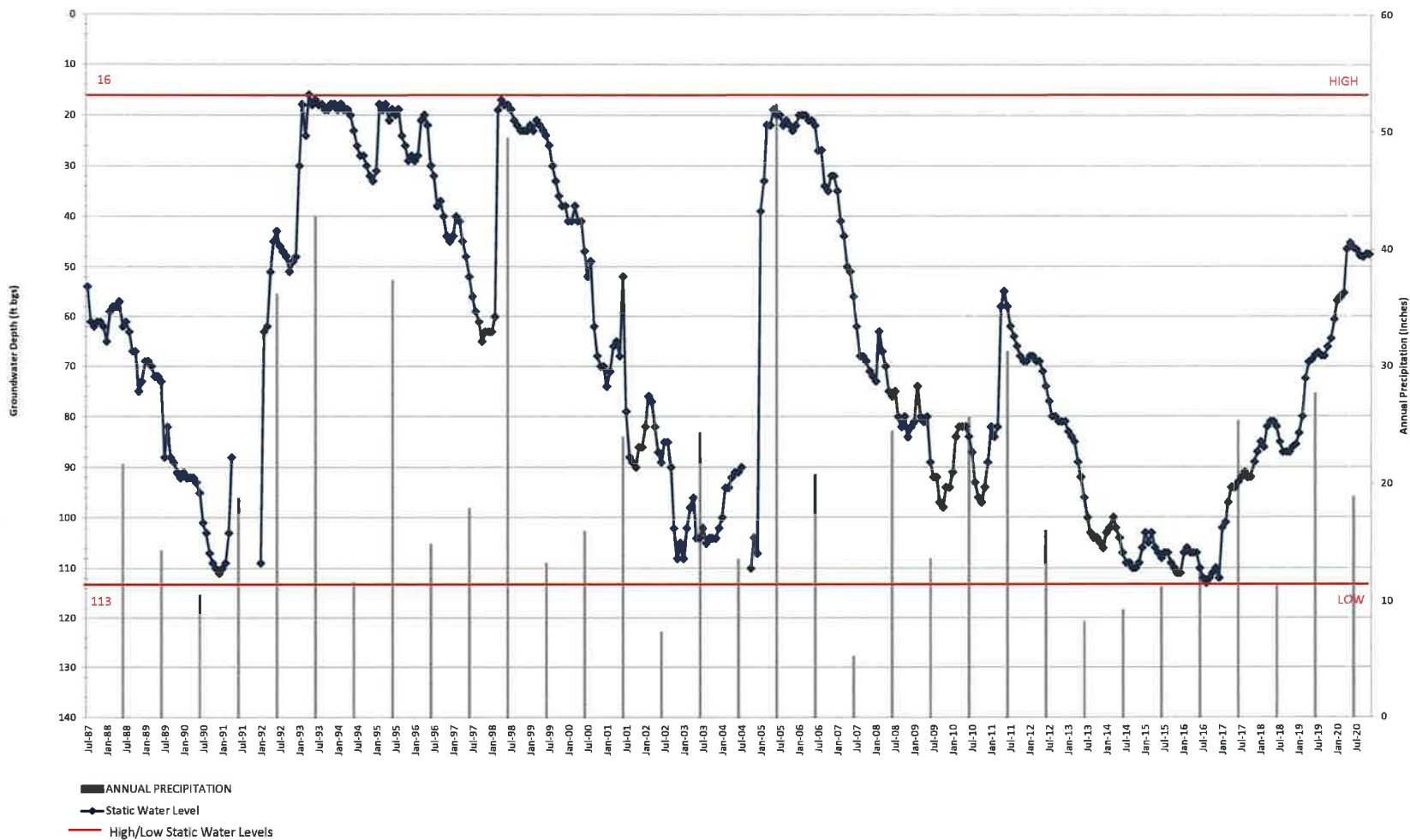
SCV WATER WELL LOST CANYON #2
STATIC WATER LEVEL VS PRECIPITATION



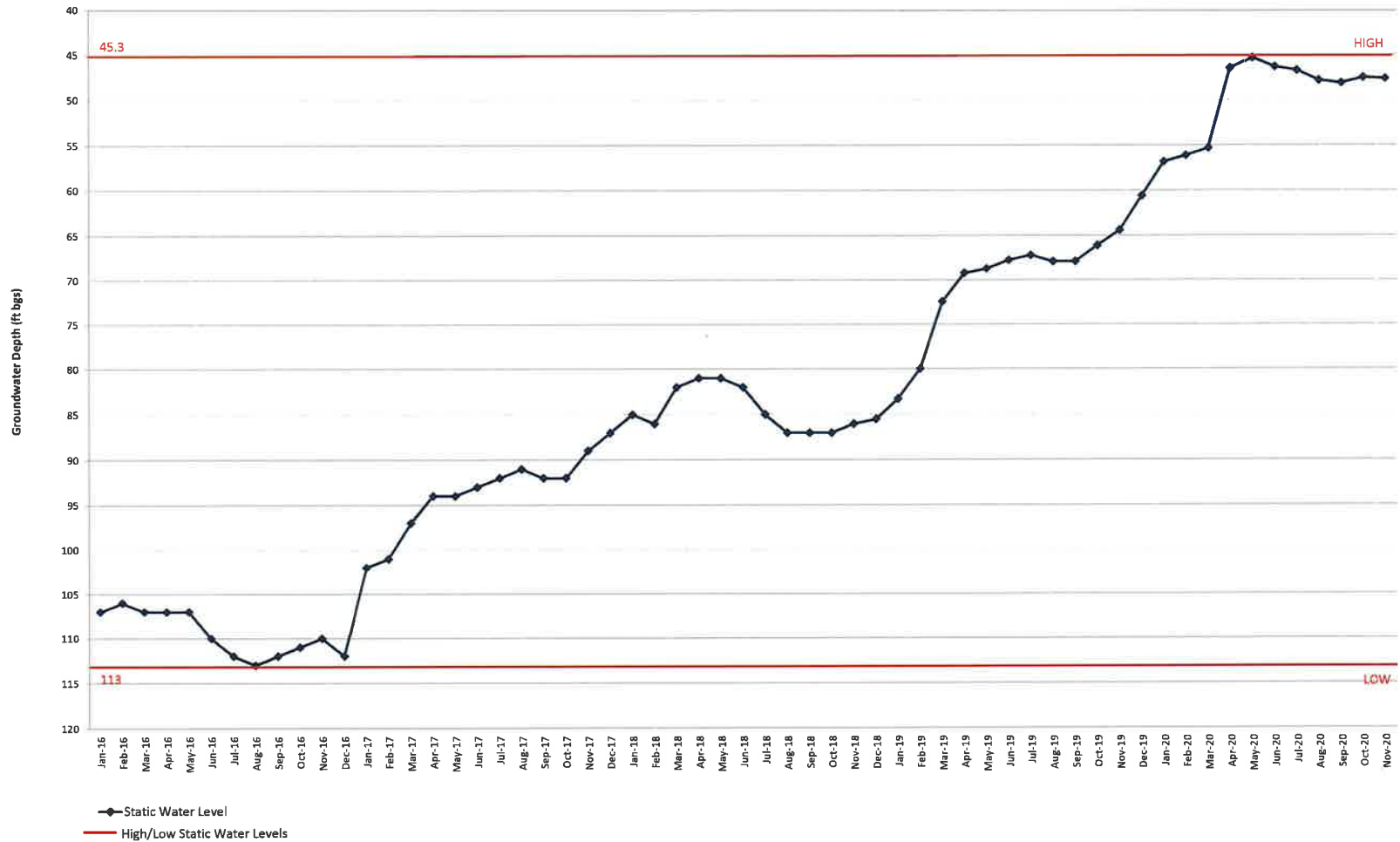
SCV WATER WELL LOST CANYON #2
 STATIC WATER LEVEL



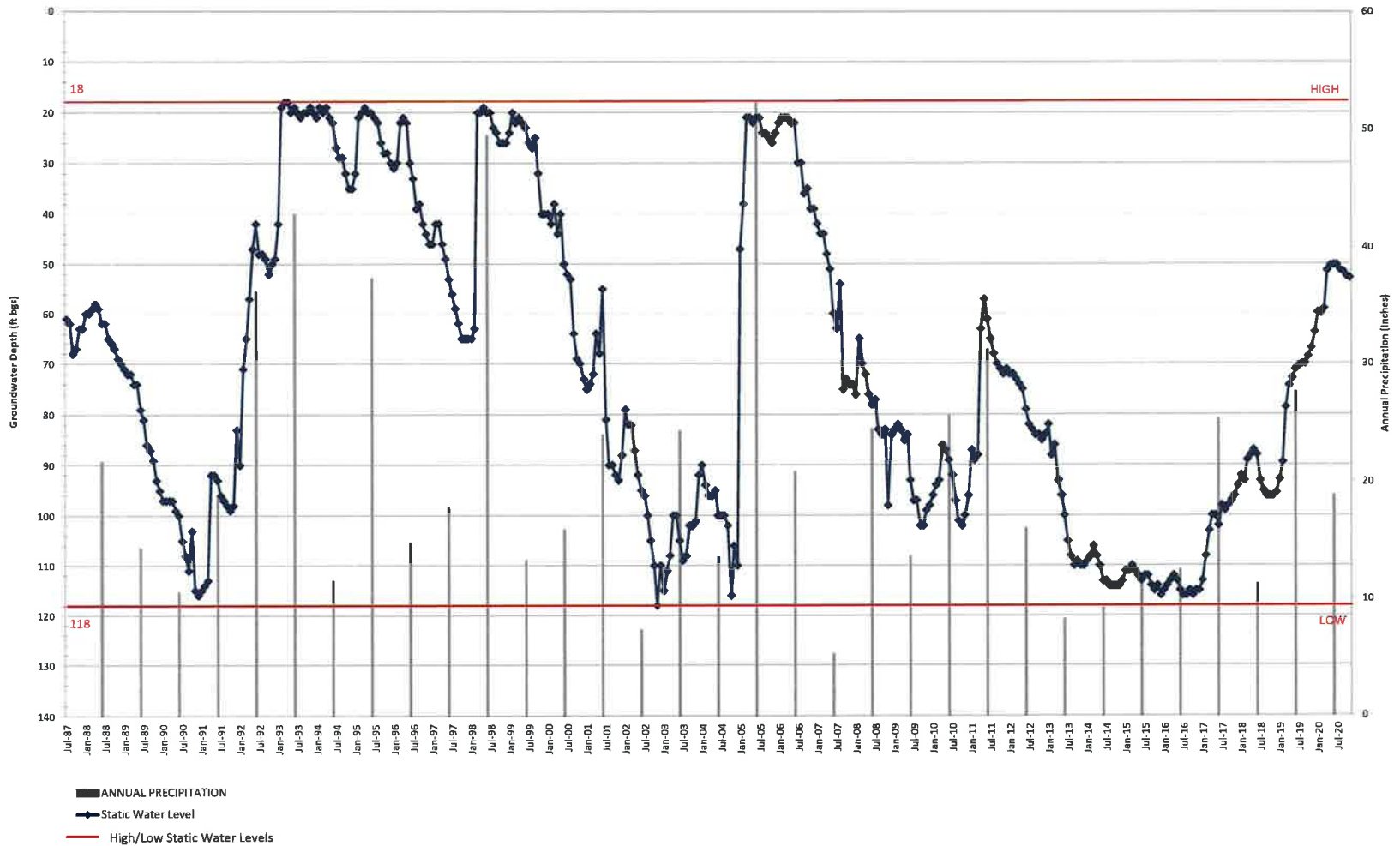
SCV WATER WELL P4
STATIC WATER LEVEL VS PRECIPITATION



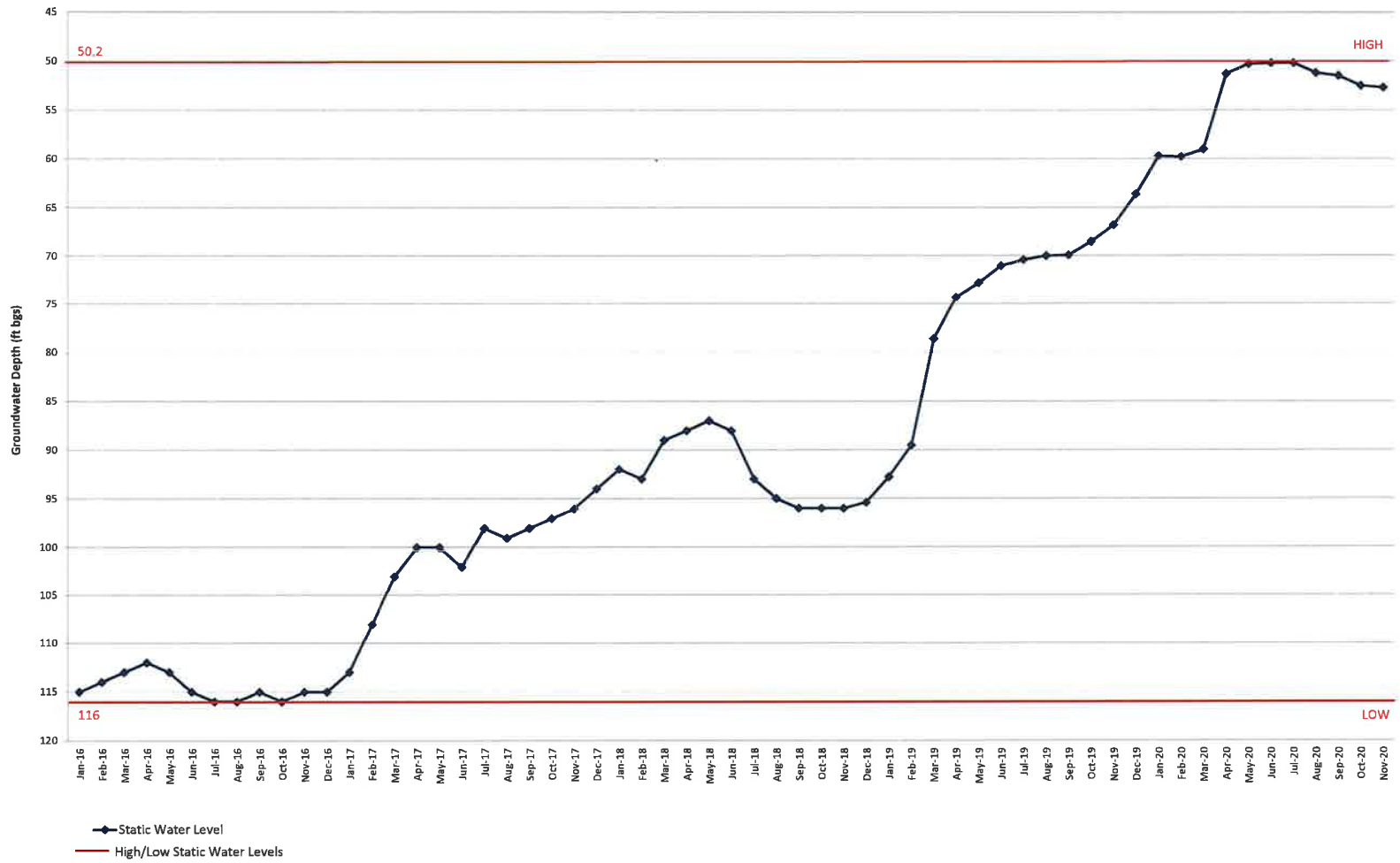
SCV WATER WELL P4
STATIC WATER LEVEL



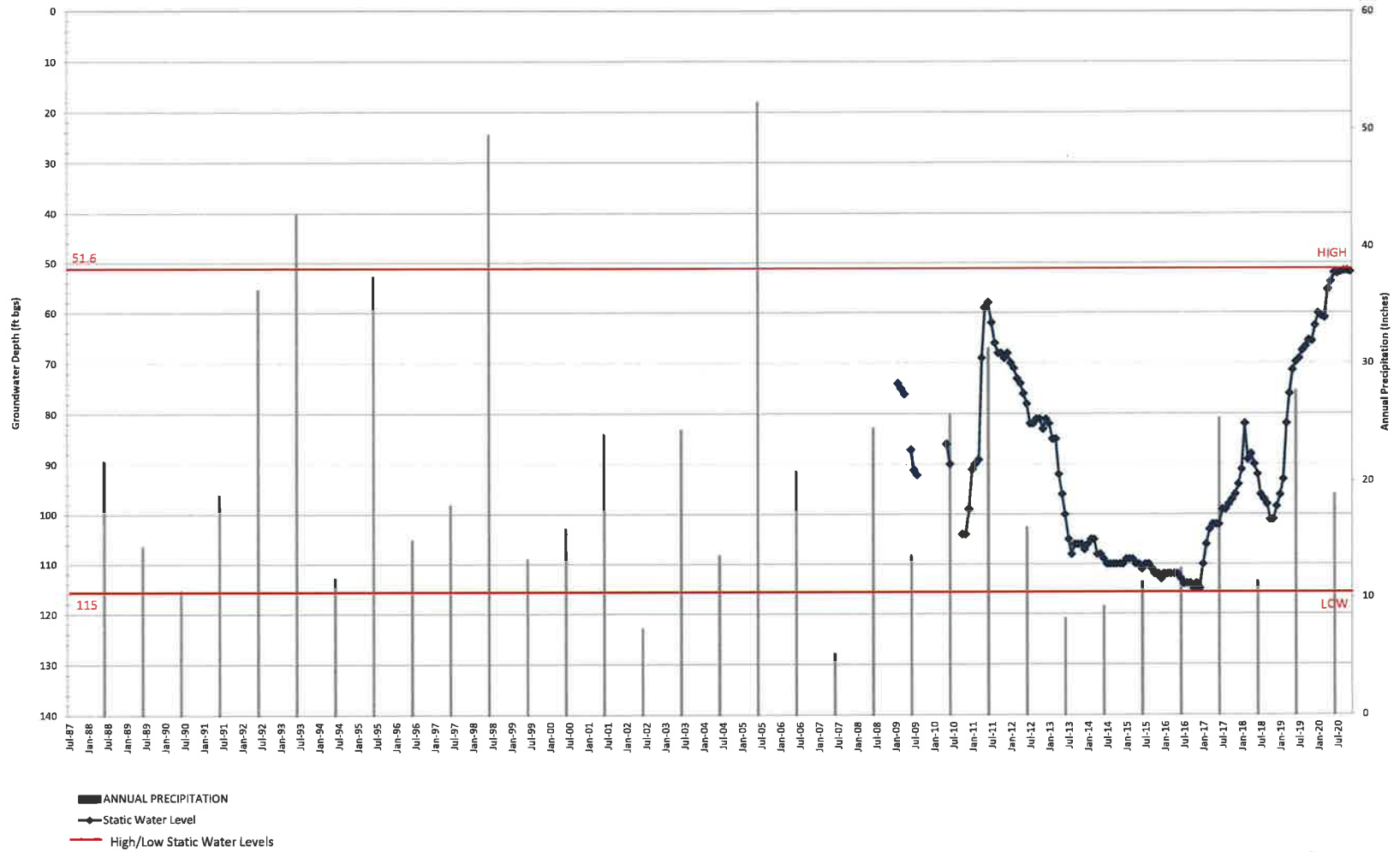
SCV WATER WELL P3
STATIC WATER LEVEL VS PRECIPITATION



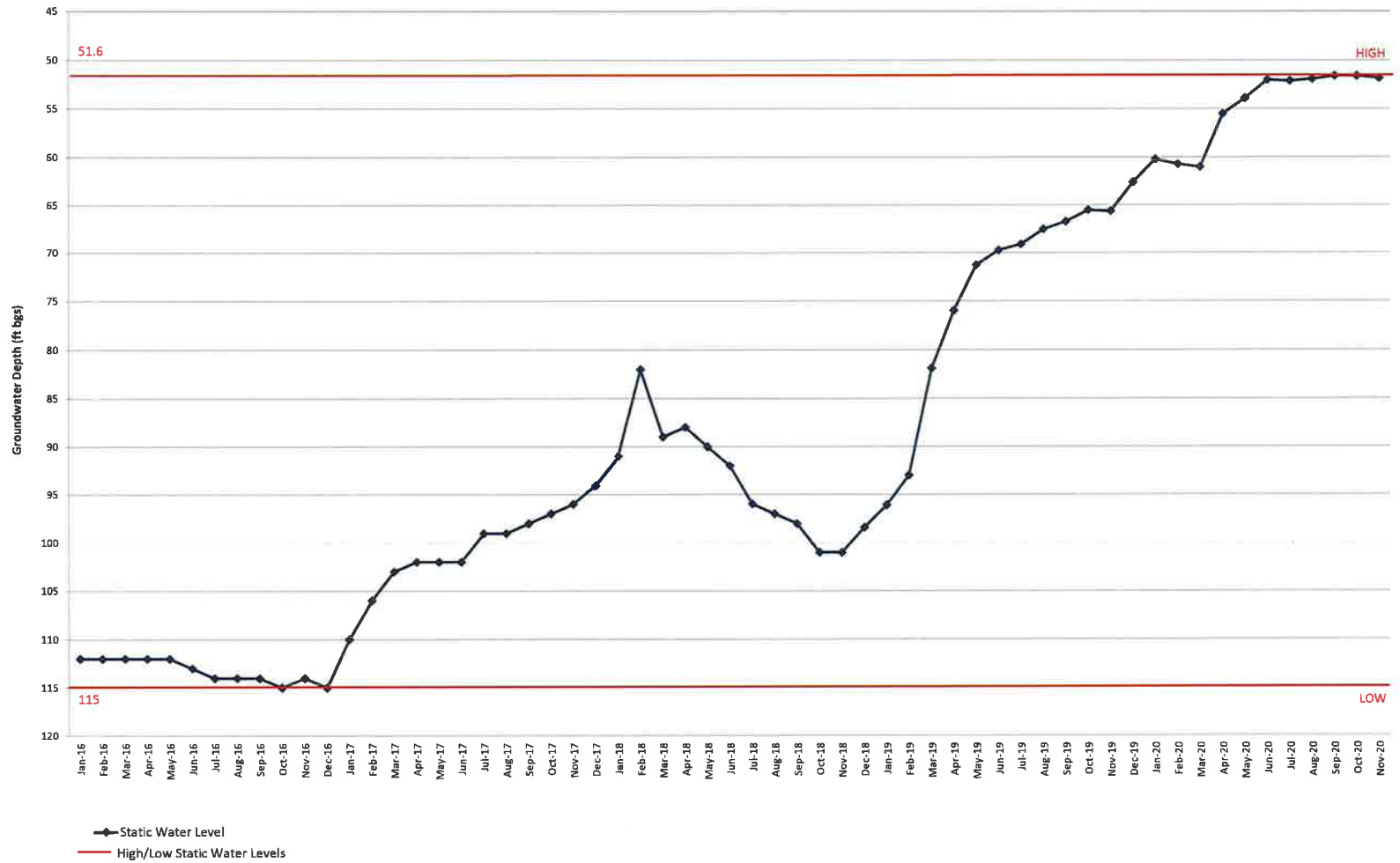
SCV WATER WELL P3
STATIC WATER LEVEL



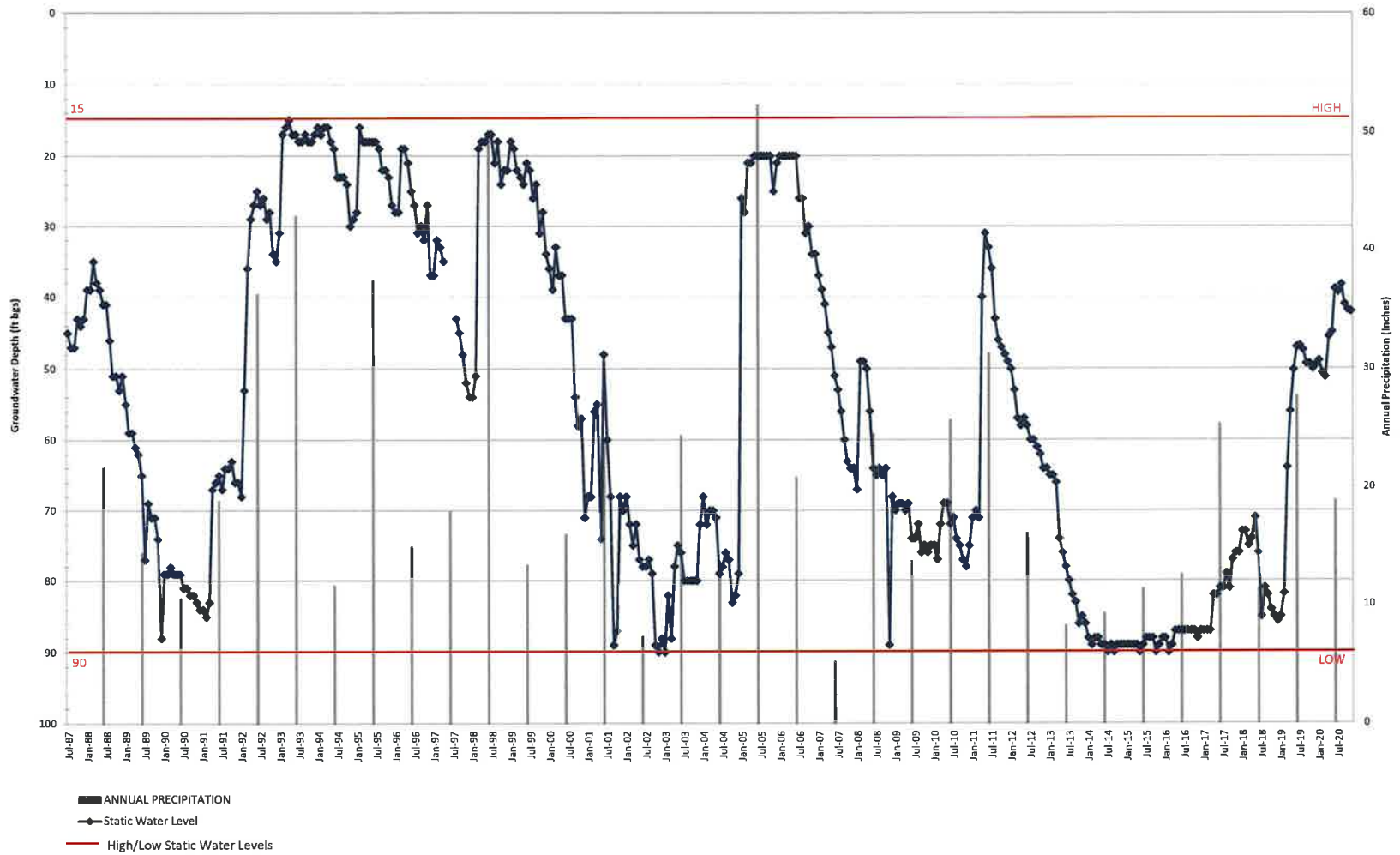
SCV WATER WELL P5
STATIC WATER LEVEL VS PRECIPITATION

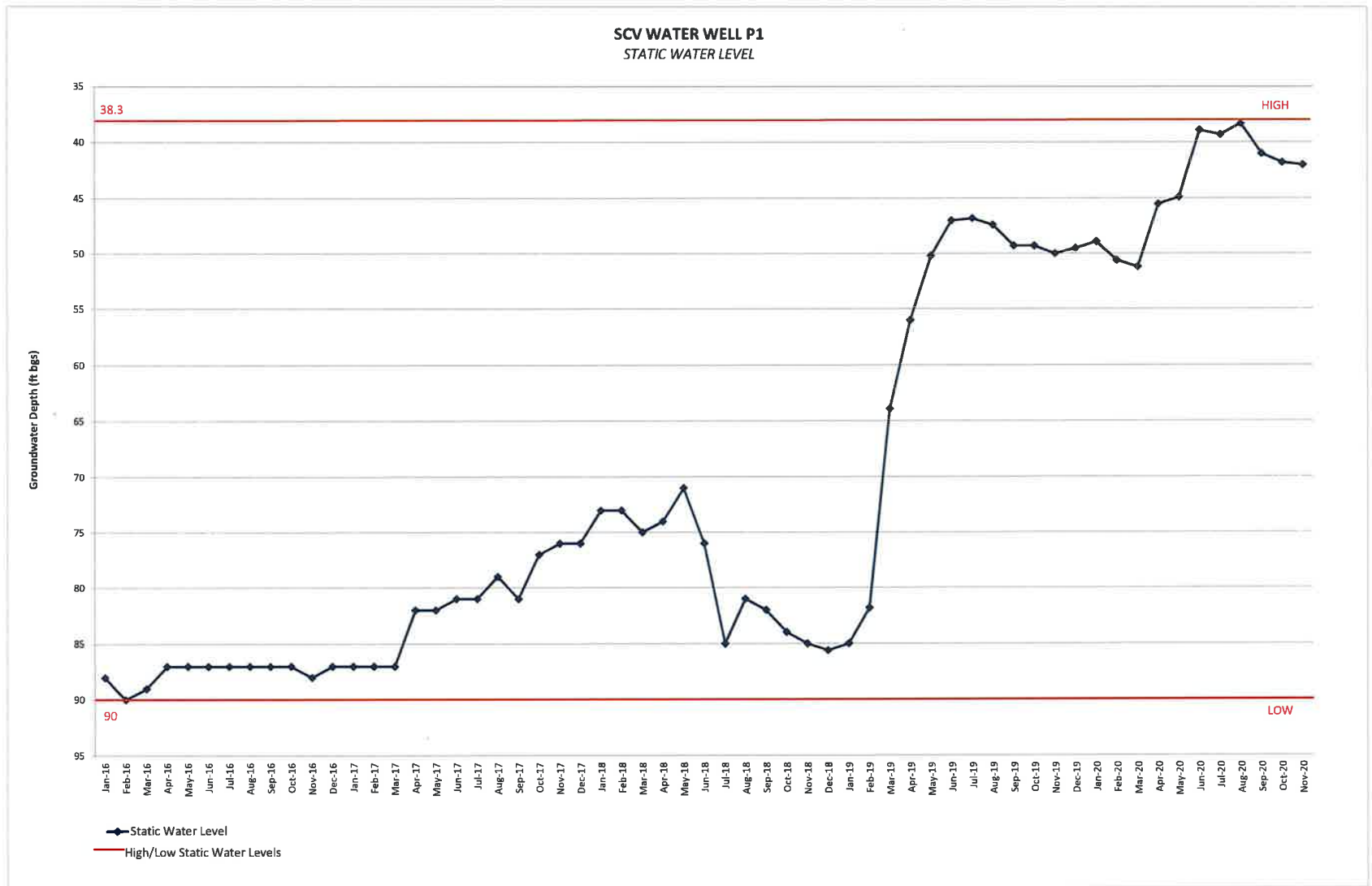


SCV WATER WELL P5
STATIC WATER LEVEL



SCV WATER WELL P1
STATIC WATER LEVEL VS PRECIPITATION





**Santa Clarita Valley Water Agency
Capital Improvement Projects (CIP) Construction Status Report
As of December 15, 2020**

Project	Contractor	Original Contract Amount	Change Orders to Date	% Change Orders	Current Contract Amount	Scheduled Completion	Estimated % of Work Completed	Status
West Ranch Recycled Water Main Extension (Phase 2D)	Cedro Construction Inc.	\$3,112,332	\$126,950.53	4.1%	\$3,239,282.53	January 30, 2021	95%	Construction is in progress.
Westridge Recycled Tank Upgrades Potable Make-up Above Ground Piping	W.A. Rasic Construction Company, Inc.	\$475,810	\$0	0%	\$475,8810	February 27, 2021	10%	Construction is in progress.
PFAS Groundwater Treatment Project and Well Q2 Perchlorate Removal Facility - Vessels Purchase	Evoqua Water Technologies, LLC.	\$1,727,960	\$3,974	0.2%	\$1,731,934	March 1, 2021	95%	N Wells startup is in progress. Well Q2 construction is in progress.
PFAS Groundwater Treatment Project and Well Q2 Perchlorate Removal Facility - Site Construction	Pacific Hydrotech Corporation	\$4,515,000	\$178,920.30	4.0%	\$4,693,920.30	March 1, 2021	95%	N Wells startup is in progress. Well Q2 construction is in progress.
Magic Mountain Pipeline Phase 4	FivePoint / Toro Enterprises	\$3,084,725	\$302,116.72	9.8%	\$3,386,841.72	March 1, 2021	90%	Construction is in progress.
Magic Mountain Pipeline Phase 5	FivePoint / Toro Enterprises	\$3,269,978.85	\$0	0%	\$3,269,978.85	March 1, 2021	90%	Construction is in progress.

Project	Contractor	Original Contract Amount	Change Orders to Date	% Change Orders	Current Contract Amount	Scheduled Completion	Estimated % of Work Completed	Status
Magic Mountain Pipeline Phase 6A	FivePoint / Toro Enterprises	\$7,168,844.85	\$0	0%	\$7,168,844.85	April 7, 2021	16%	Pipe fabrication is in progress.
Valley Center Well Material Purchase	Evoqua Water Technologies, LLC.	\$512,802	\$0	0%	\$512,802	June 5, 2021	1%	Notice to Proceed has been issued on December 8, 2020 and a kick-off meeting is being scheduled.
Magic Mountain Pipeline Phase 6B	FivePoint / Leatherwood Construction	\$4,568,687.07	\$0	0%	\$4,568,687.07	June 30, 2021	5%	Construction submittals are in progress.
Vista Canyon Recycled Water Main Extension (Phase 2B)	Ferreira Construction Co, Inc.	\$2,752,982	(\$169,101)	(6.1%)	\$2,583,881	July 22, 2021	45%	Revised scope to remove tank access road piping and a portion of onsite piping within HOA. Construction activities are on hold.
Replacement (Saugus 3 & 4) Wells	Best Drilling & Pump, Inc.	\$5,615,052	\$0	0%	\$5,615,052	July 28, 2021	5%	Construction activities are on hold.
Commerce Center Drive Pipeline	FivePoint / Blois Construction, Inc.	\$891,139.70	\$0	0%	\$891,139.70	TBD	5%	Construction submittals are in progress.

**Engineering and Operations Committee
Planning Calendar
FY 2020/21**

**ITEM NO.
5**

	Item	PowerPoint Presentation (Y/N/Length)	Jul 1 Comm	Jul 7 Board	Aug 4 Board	Aug 6 Comm	Aug 18 Board	Sep 1 Board	Sep 3 Comm	Sep 15 Board	Oct 1 Comm	Oct 6 Board	Oct 20 Board	Nov 4 Board	Nov 5 Comm	Nov 17 Board	Dec 1 Board	Dec 3 Comm - CANCELLED	Jan 6 Board	Jan 7 Comm	Feb 2 Board	Feb 4 Comm	Mar 2 Board	Mar 4 Comm	Apr 1 Comm	Apr 6 Board	May 4 Board	May 10 Comm	Jun 1 Board	Jun 3 Comm	Jul 6 Board	
1	Monthly Committee Planning Calendar	None	C																													
2	CIP Construction Status Report	None	C			C			C		C										P	P		P	P							
3	Monthly Operations and Production Report	None	C			C			C		C										P	P		P	P							
4	Third Party Funded Agreements Quarterly Report	None				C									C																	
5	Quarterly Safety Program Presentation	Yes 15 min				C									C																	
6	Annual Safety Program Update (FY 19-20)	Yes 15 min						C																								
7	Recommend Approval of a Resolution Awarding a Construction Contract, a Purchase Order for Construction Management and Inspection Services, and a Purchase Order for Consultant Services for Replacement Wells Construction	Yes 10 min	C	C																												
8	Recommend Approval of a Resolution Awarding a Purchase Order for Design Services for the Replacement Wells On-Site Pipeline/Infrastructure	Yes 10 min	C	C																												
9	Recommend Approval of a Resolution Awarding a Construction Contract for the Recycled Water Tank Aboveground Piping Potable Make-Up Line Project	Yes 10 min	C	C																												
10	Recommend Approval of a Purchase Order for Final Design Services for Valley Center Well PFAS Groundwater Treatment	Yes 10 min	C	C																												
11	Recommend Approval of Purchase of Replacement Clarifier Media at Earl Schmidt Filtration Plant	Yes 10 min				C	C																									
12	Laboratory PFAS Analytical Equipment Purchase	None				C	C																									
13	Recommend Approval of a Purchase Order for Final Design Services for Recycled Water Tank at an Alternate Site for Recycled Water Vista Canyon (Phase 2B) Project	Yes 10 min				C	C																									
14	Recommend that the Board of Directors Reject all Bids Associated with the Santa Clarita Valley Water Agency Slurry Seal and Asphalt Installation Project for the Rio Vista Treatment Plant Location	None							C	C																						
15	Recommend Approval of the Installation of Approximately 400 feet of 30" Diameter Pipeline Along Ridge Route Road	None							C	C																						
16	Recommend Approval of the installation of Approximately 1,500 feet of 14" Diameter Pipeline Along Decoro Drive	None							C	C																						
17	Recommend Approval of the Installation of Approximately 1,500 feet of 12" Diameter Pipeline Along The Old Road	None							C	C																						
18	Recommend Approval of the Installation of Approximately 130 feet of 18" Diameter Pipeline Along Honby Avenue	None							C	C																						

C = Completed Item
P = Planned Item

**Engineering and Operations Committee
Planning Calendar
FY 2020/21**

Item	PowerPoint Presentation (Y/N/Length)	Jul 1 Comm	Jul 7 Board	Aug 4 Board	Aug 6 Comm	Aug 18 Board	Sep 1 Board	Sep 3 Comm	Sep 15 Board	Oct 1 Comm	Oct 6 Board	Oct 20 Board	Nov 4 Board	Nov 5 Comm	Nov 17 Board	Dec 1 Board	Dec 3 Comm - CANCELLED	Jan 5 Board	Jan 7 Comm	Feb 2 Board	Feb 4 Comm	Mar 2 Board	Mar 4 Comm	Apr 1 Comm	Apr 6 Board	May 4 Board	May 10 Comm	Jun 1 Board	Jun 3 Comm	Jul 6 Board	
		19	Recommend Approval of a Purchase Order for Final Design Services for Santa Clara and Honby Wells PFAS Groundwater Treatment Improvements							C	C																				
20	Recommend Approval of the General Manager to execute construction change orders up to seven percent (7%) of the original construction contract for the West Ranch Recycled Water Main Extension (Phase 2D)							C	C																						
21	Recommend Approval of Construction Contract Funding and a Purchase Order for Inspection Services for Replacement Wells Commerce Center Drive Pipeline										C																				
22	Recommend Approval of a Resolution Awarding a Material Purchase Contract for Valley Center Well									C		C																			
23	Recommend Approval of a Resolution Awarding a Construction Contract to GSE Construction Company, Inc., for the Rio Vista Water Treatment Plant Chlorine Scrubber Replacement Project													C	C																
24	Recommend Approval of a Resolution Awarding a Contract for Newhall Tank No. 2 Interior Recoat and Repair													C		C															
25	Approve the General Manager to execute a construction change order to the original construction contract for the N Wells PFAS Groundwater Treatment and Well Q2 Perchlorate Removal Facility Project																	P													
26	Recommend Approval of a Purchase Order for Final Design Services for the new Deane Zone Tank, Disinfection Facility, Pump Station and Cost Sharing Agreement at Skyline Ranch																		P	P											
27	Recommend Approval of a Work Authorization for Final Design of the Groundwater Treatment Improvements																				P	P									
28	Recommend Approval of a Purchase Order for Final Design Services for Well 205 Groundwater Treatment Improvements																				P	P									
29	Recommend Approval of Resolution Awarding Construction Contract and Purchase Orders for Construction Management and Inspection Services and Engineering Services During Construction for Valley Center Well PFAS Groundwater Treatment Project																						P		P						
30	Recommend Approval of a Purchase Order for Final Design of the Magic Mountain Reservoir																						P		P						
31	Recommend Approval of a Purchase Order for Final Design of the Magic Mountain Pump Station																						P		P						
32	Recommend Approval of Purchase Order for Groundwater Modeling Services for Perchlorate Containment Evaluation																						P		P						

C = Completed Item
P = Planned Item

**Engineering and Operations Committee
Planning Calendar
FY 2020/21**

	Item	PowerPoint Presentation (Y/N/Length)	Jul 1 Comm	Jul 7 Board	Aug 4 Board	Aug 6 Comm	Aug 18 Board	Sep 1 Board	Sep 3 Comm	Sep 15 Board	Oct 1 Comm	Oct 6 Board	Oct 20 Board	Nov 4 Board	Nov 5 Comm	Nov 17 Board	Dec 1 Board	Dec 3 Comm - CANCELLED	Jan 5 Board	Jan 7 Comm	Feb 2 Board	Feb 4 Comm	Mar 2 Board	Mar 4 Comm	Apr 1 Comm	Apr 6 Board	May 4 Board	May 10 Comm	Jun 1 Board	Jun 3 Comm	Jul 6 Board		
			33	Recommend Approval of Resolution Awarding Construction Contract to TBD for Recycled Water Vista Canyon (Phase 2B) Tank	TBD																							P		P			
34	Recommend Approval of Resolution Awarding Construction Contract and Purchase Orders for Construction Management and Inspection Services and Engineering Services During Construction for ESFP Washwater Return and Sludge Systems Project	TBD																								P		P					
35	Recommend Approval of Resolution Authorizing SCV Water to Execute Water Service Agreement with State Water Resources Control Board and Los Angeles Residential Community	TBD																								P		P					
36	Recommend Approval of Resolution Awarding Construction Contract for Pipeline to the Los Angeles Residential Community	TBD																								P		P					
37	Recommend Approval of Construction of New Sand Canyon Plaza (Deane Zone) Pump Station and Cost Sharing Agreement with Developer	TBD																								P		P					
38	Recommend Approval of Construction of Pipeline in Sierra Highway from Dockweiler to Newhall Avenue	TBD																													P	P	
39	Recommend Approval of Construction of Pressure Reducing Station In Sierra Highway	TBD																													P	P	
40	Recommend Approval of Construction of a New Skyline Ranch (Deane Zone) Pump Station and Cost Sharing Agreement with Developer	TBD																													P	P	
41	Recommend Approval of Construction of New Skyline Ranch 2.1 MG Tanks (Deane Zone) and Cost Sharing Agreement with Developer	TBD																													P	P	
42	Recommend Approval of Construction of New Sand Canyon Plaza 1.5 MG Tank (Deane Zone) and Cost Sharing Agreement with Developer	TBD																													P	P	

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