



ENGINEERING AND OPERATIONS COMMITTEE MEETING

Thursday, June 2, 2022
Meeting Begins at 5:30 PM

Members of the public may attend by the following options:

In Person

Santa Clarita Valley Water Agency
Engineering Services Section
Boardroom
26521 Summit Circle
Santa Clarita, CA 91350

By Phone

Toll Free:
1-(833)-568-8864
Webinar ID: 160 356 4384

Virtually

Please join the meeting from your
computer, tablet or smartphone:

<https://scvwa.zoomgov.com/j/1603564384>

Have a Public Comment?

Public comments may be made virtually or in-person the night of the meeting, as well as in writing via mail to 26515 Summit Circle, Santa Clarita, CA 91350 or email to Elizabeth Adler, Executive Assistant at eadler@scvwa.org by 4:00 PM the day of the meeting.*

(Public comments take place during Item 2 of the Agenda and before each Item is considered. Please see the agenda for details.)

This meeting will be recorded and the audio recording for all Committee meetings will be posted to yourscvwater.com within 3 business days from the date of the Committee meeting.

*All written comments received after 4:00 PM the day of the meeting will be made available at the meeting and posted on the SCV Water Website the following day at yourscvwater.com. Public comments can also be heard the night of the meeting.

Disclaimer: Attendees should be aware that while the Agency is following all applicable requirements and guidelines regarding COVID-19, the Agency cannot ensure the health of anyone attending a Committee meeting. Attendees should therefore use their own judgment with respect to protecting themselves from exposure to COVID-19.

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Date: May 25, 2022

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** meeting is scheduled on **Thursday, June 2, 2022 at 5:30 PM** at **26521 Summit Circle, Santa Clarita, CA 91350 in the Engineering Services Section (ESS) Boardroom**. Members of the public may attend in person or virtually. To attend this meeting virtually, please see below.

IMPORTANT NOTICES

This meeting will be conducted in person at the address listed above. As a convenience to the public, members of the public may also participate virtually by using the **Agency's Call-In Number 1-(833)-568-8864, Webinar ID: 160 356 4384 or Zoom Webinar by clicking on the link <https://scvwa.zoomgov.com/j/1603564384>**. Any member of the public may listen to the meeting or make comments to the Committee using the call-in number or Zoom Webinar link above. However, in the event there is a disruption of service which prevents the Agency from broadcasting the meeting to members of the public using either the call-in option or internet-based service, this meeting will not be postponed or rescheduled but will continue without remote participation. The remote participation option is being provided as a convenience to the public and is not required. Members of the public are welcome to attend the meeting in person.

Attendees should be aware that while the Agency is following all applicable requirements and guidelines regarding COVID-19, the Agency cannot ensure the health of anyone attending a Committee meeting. Attendees should therefore use their own judgment with respect to protecting themselves from exposure to COVID-19.

Members of the public unable to attend this meeting may submit comments either in writing to eadler@scvwa.org or by mail to Elizabeth Adler, Executive Assistant, Santa Clarita Valley Water Agency, 26515 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 start of the meeting. Anything received after 4:00 PM the day of the meeting will be made available at the meeting and posted on the SCV Water website the following day.

MEETING AGENDA

<u>ITEM</u>	<u>PAGE</u>
1. <u>PLEDGE OF ALLEGIANCE</u>	
2. <u>PUBLIC COMMENTS</u> – Members of the public may comment as to items within the subject matter jurisdiction of the Agency that are not on the Agenda at this time. Members of the public wishing to comment on items covered in this Agenda may do so at the time each item is considered. (Comments may, at the discretion of the Committee Chair, be limited to three minutes for each speaker.)	
3. * Recommend the Purchase of a Portable Booster Pump	1
4. * Monthly Operations and Production Report	11
5. * Capital Improvement Projects Construction Status Report	113
6. * Committee Planning Calendar	115
7. General Report on Treatment, Distribution, Operations and Maintenance Services Section Activities	
8. * General Report on Engineering Services Section Activities	121
9. Adjournment	
* Indicates Attachment	
• Indicates Handout	

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 Adler, Executive Assistant, at (661) 297-1600, or in writing to Santa Clarita Valley Water Agency at 26515 Summit Circle, 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.

May 25, 2022

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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 Committee 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 May 26, 2022.

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COMMITTEE MEMORANDUM

DATE: May 23, 2022

TO: Engineering and Operations Committee

FROM: Mike Alvord *MA*
Director of Operations & Maintenance

SUBJECT: Recommend Approval to purchase a Portable Booster Pump

SUMMARY

In order to help maintain reliable water service, SCV Water has several on site and portable generators and portable booster pumps. These pieces of equipment allow operations to provide water service in the event of power outages and other emergencies. Having both generators and portable booster pumps allows for additional flexibility and operational efficiency. Having a versatile inventory of equipment is a critical aspect of water supply reliability.

DISCUSSION

SCV Water has several on site generators at various locations to maintain operations during power outages. In addition, there are 10 larger mobile generators, which can power sources of supply and booster pumps, in order to continue supplying and moving water throughout the distribution system. SCV Water also has 5 portable booster pumps. Only two are used for potable water applications and only one is designed for quiet operation. The potable portable pumps can be used in zones where a single booster station provides water to the zone, where a single tank needs to be taken out of service, and in areas where generator connections are not available. The most recent example of use is in the Mammoth Lane zone in Canyon Country. The Mammoth Booster Station was taken out of service in order to replace aged pipelines supplying the station. The portable booster pump was installed within the zone and enabled water from a lower zone to be pumped into the upper Mammoth Zone. These pumps need to be quiet and efficient in order to not impact the neighboring community.

FINANCIAL CONSIDERATIONS

The following table provides details on three (3) pumps staff received quotes.

Item	Rain for Rent	United Rentals	Xylem
Portable Booster Pump	\$104,999	\$107,000	\$262,765
Sales Tax	\$10,450	\$10,640	\$24,963
Freight	\$5,000	\$5,000	\$4,500
TOTAL	\$120,449	\$122,640	\$292,228

Funds for this project are included in the FY 2021/22 Capital Improvement Program (CIP) for Equipment Improvements and Replacements in the amount of \$1,375,000.

RECOMMENDATION

The Engineering and Operations Committee recommend that the Board of Directors authorize the General Manager to purchase a Portable Booster Pump from Rain for Rent in the amount not to exceed \$120,500.

M65



June 2, 2022

SCV Water

Portable Booster Pump
Engineering & Operations Committee

SCV Water Equipment Information

Emergency water supply equipment

- 13 Generators - 10 mobile generators
- 5 Portable booster pumps (2 potable)



Portable Booster Pumps

The primary use of portable pumps and generators are for when

- Facilities lose power (electrical outage or equipment failure)
- Edison power outages (PSPS - Public safety power shutoff)
- Physical damage to a booster station
- Station is offline due to construction/maintenance activities

Portable Pumps connect from hydrant to hydrant or flanged connections

*Meets several Strategic Plan Objectives within Goal B: Infrastructure Reliability



Portable Booster Pumps



YOURSCVWATER.COM



Portable Generators



Financial Considerations & Bid Results

Contractors	Bid Amount
Rain For Rent	\$120,449
United Rentals	\$122,640
Xylem Inc.	\$292,228

- Lowest Responsible Bid is \$120,449 by Rain For Rent
- Project Funds were approved in FY 2021/2022 CIP PayGO Budget

Recommendations

- That the Engineering & Operations Committee recommend that the Board of Directors authorize the General Manager to purchase a Portable Booster Pump from Rain for Rent in the amount not to exceed \$120,500.



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Monthly Operations & Production Report

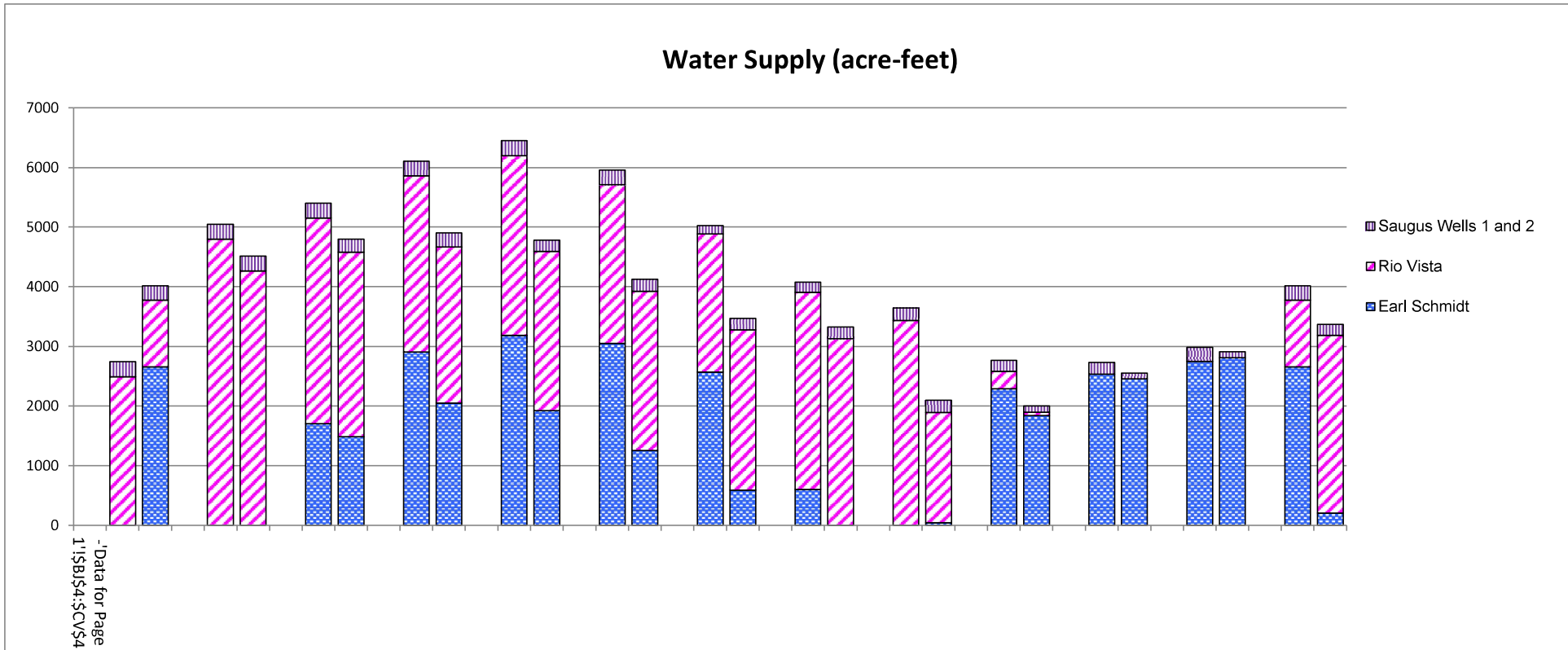
April 2022

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SANTA CLARITA VALLEY WATER AGENCY

April 2022 Regional Operations Report

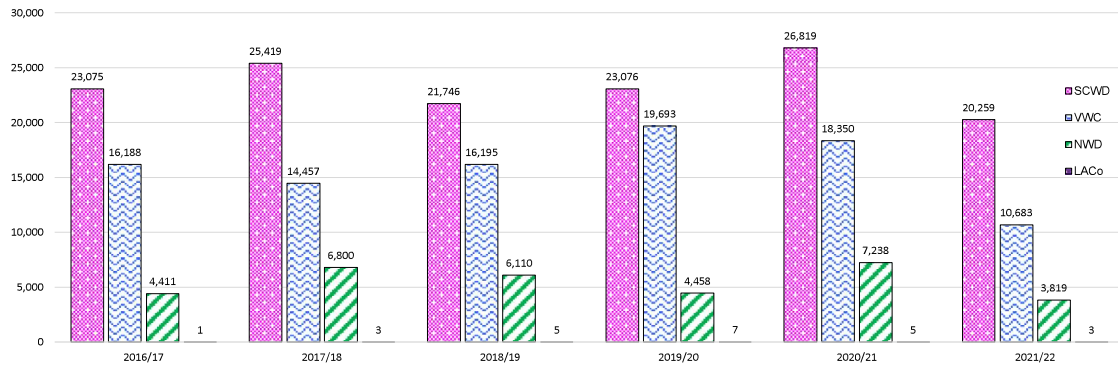
Water Supply (acre-feet)



Source	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	Total
Earl Schmidt	2659	0	1484	2049	1922	1252	587	0	43	1837	2459	2810	208	17310
Rio Vista	1115	4265	3098	2620	2675	2671	2689	3127	1847	55	0	0	2977	27139
Saugus 1 and 2	241	251	218	239	183	200	193	200	205	106	94	102	186	2418
Total	4015	4516	4800	4908	4780	4123	3469	3327	2095	1998	2553	2912	3371	43496
Total Sold	3887	4500	4809	5030	5069.61	4559	3585	3390	2113	2106	2593	3075	3243	47959.61
RVWTP Use/Storage	34.82	29.93	48.12	-26.35	89.5	8.6	24.69	22.18	59.27	-64.57	3.22	-8.02	70.97	292.36
Total Use	3921.82	4529.93	4857.12	5003.65	5159.11	4567.6	3609.69	3412.18	2172.27	2041.43	2596.22	3066.98	3313.97	44938
Water Loss	-2.32%	0.31%	1.19%	1.95%	7.93%	10.78%	4.06%	2.56%	3.69%	2.17%	1.69%	5.32%	-1.69%	3.28%
Recycled Water	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	Total
Valencia	38	51	66	71	66	56	42	28	9	15	19	31	57	549

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

HISTORICAL FY Production 2016-2022



HISTORICAL FY PRODUCTION 2016-2022

2016/17	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total
SCWD	2,404	2,663	2,368	2,128	1,712	1,377	952	844	1,359	2,040	2,456	2,772	23,075
VWC	1,565	1,640	1,305	1,080	607	620	643	764	1,123	1,728	2,499	2,614	16,188
NCWD	478	467	418	372	293	234	141	109	216	384	604	695	4,411
LACo	0	0	0	0	0	0	0	0	0	0	0	0	1
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	1,905	2,076	2,264	25,419
VWC	2,089	1,723	1,184	1,260	966	969	853	676	619	1,160	1,336	1,622	14,457
NCWD	785	856	845	801	640	556	253	275	157	349	473	808	6,800
LACo	0	0	0	0	0	0	0	1	0	0	1	0	3
Total	5,958	5,615	4,619	4,522	3,528	3,481	2,684	2,532	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
VWC	1,921	2,026	1,743	1,300	1,084	459	513	232	1,205	1,819	1,701	2,193	16,195
NWD	1,023	1,012	881	537	382	214	181	76	352	428	422	603	6,110
LACo	1	0	0	1	0	0	1	1	1	0	0	0	5
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
VWC	2,491	2,518	2,348	2,145	1,526	604	957	762	919	1,066	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	
2020/21	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total
SCWD	2,849	3,117	2,792	2,470	1,907	1,907	1,548	1,423	1,590	2,080	2,428	2,709	26,819
VWC	2,316	2,257	2,115	1,915	1,653	1,324	904	892	962	1,233	1,383	1,395	18,350
NWD	882	999	963	584	490	375	313	347	318	573	689	705	7,238
LACo	0	0	0	0	0	0	0	0	0	0	0	0	5
Total	6,048	6,373	5,870	4,970	4,050	3,605	2,766	2,662	2,871	3,887	4,500	4,809	52,413
Cum. FYTD	6,048	12,422	18,292	23,262	27,312	30,918	33,683	36,346	39,216	43,103	47,603	52,413	
2021/22	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total
SCWD	2,950	2,924	2,593	2,053	1,941	1,255	1,331	1,547	1,800	1,865	0	0	20,259
VWC	1,381	1,439	1,386	1,172	1,158	690	634	799	984	1,040	0	0	10,683
NWD	700	705	581	358	291	167	140	247	292	338	0	0	3,819
LACo	1	1	0	0	0	0	0	0	0	0	0	0	3
Total	5,030	5,070	4,559	3,585	3,390	2,113	2,106	2,593	3,075	3,243	0	0	34,764
Cum. FYTD	5,030	10,100	14,660	18,244	21,634	23,747	25,852	28,445	31,521	34,764	34,764	34,764	

*Total does not include recycled water.

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

	<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>	<i>2010-11</i>
Oct	1.13	0.22	0.00	1.10	4.79	1.91	0.42	0.25	0.09	4.04	1.34
Nov	0.00	3.18	3.01	0.63	0.64	0.59	0.05	0.50	1.78	0.08	1.87
Dec	0.00	1.30	5.85	2.57	8.54	0.14	0.83	2.67	3.01	4.28	11.97
Jan	5.84	1.55	0.00	0.65	17.06	3.27	1.66	17.54	0.69	9.13	0.96
Feb	10.76	0.51	9.03	8.07	16.69	3.78	1.38	1.82	6.78	4.96	5.36
Mar	3.38	0.38	2.38	0.37	2.70	5.68	0.17	0.10	1.18	0.69	8.86
Apr	2.56	0.05	2.35	0.20	1.42	4.22	0.71	0.07	0.07	2.40	0.12
May	0.00	0.12	1.70	0.00	0.45	0.99	0.00	0.17	0.01	0.07	0.74
Jun	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.04
Jul	0.00	0.00	0.02	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.01
Aug	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00
Sep	0.00	0.02	0.00	0.00	0.17	0.00	1.32	0.00	0.00	0.00	0.00
TOTAL	23.67	7.34	24.34	13.59	52.55	20.58	6.58	23.12	13.64	25.65	31.27
	<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>	<i>2021-22</i>
Oct	1.97	0.15	0.11	0.32	0.17	0.43	0.00	0.52	0.01	0.04	1.22
Nov	2.50	2.20	1.41	0.64	0.21	1.49	0.06	1.87	2.61	0.14	0.04
Dec	1.19	1.54	0.37	6.16	0.49	3.44	0.01	2.77	5.12	1.40	13.86
Jan	1.23	1.94	0.06	1.44	6.07	10.30	3.18	8.08	0.54	2.08	0.40
Feb	0.13	0.42	5.26	0.74	0.69	8.98	0.35	8.56	0.12	0.03	0.00
Mar	4.99	1.21	1.64	1.09	2.75	0.33	7.50	4.15	5.81	0.84	1.96
Apr	4.02	0.00	0.31	0.16	0.37	0.09	0.02	0.09	4.45	0.01	0.12
May	0.01	0.74	0.00	0.66	0.09	0.26	0.01	1.60	0.16	0.00	
Jun	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.01	0.01	0.00	
Jul	0.00	0.08	0.02	0.87	0.00	0.01	0.00	0.00	0.00	0.00	
Aug	0.01	0.00	0.05	0.00	0.02	0.07	0.00	0.00	0.00	0.03	
Sep	0.02	0.00	0.00	0.78	0.00	0.13	0.02	0.03	0.01	0.00	
TOTAL	16.07	8.28	9.23	12.87	10.87	25.53	11.15	27.68	18.84	4.57	17.60

Data Source: 2000 - February 2022 SCV Water's Pine Street office; March 2022 onward L.A. County Department of Public Works Newhall - Soledad Canyon Rain Gauge

SANTA CLARITA VALLEY WATER AGENCY
WATER PRODUCTION 2022 (ACRE-FEET)

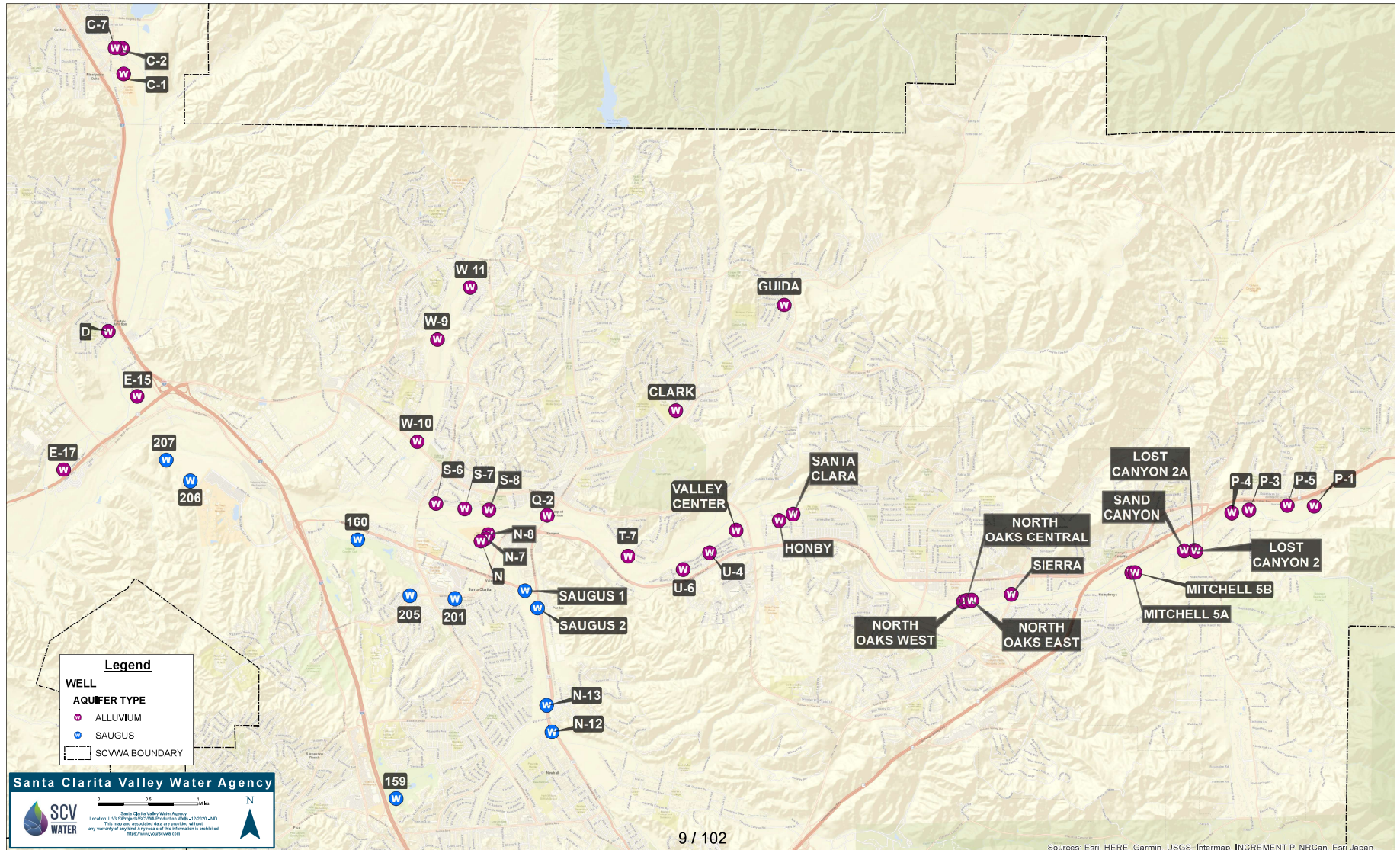
GROUNDWATER - ALLUVIUM	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
C1	26	30	36	38									131
C2	13	14	18	19									64
C7	35	41	48	50									174
CLARK	0	0	0	0									0
D	0	0	0	0									0
E15	54	62	79	76									271
E17	45	54	64	66									229
GUIDA	45	53	52	41									191
HONBY	0	0	0	0									0
LOST CANYON NO.2	5	26	19	20									70
LOST CANYON NO.2A	28	63	43	55									189
MITCHELL 5A	6	0	0	0									6
MITCHELL 5B	0	0	0	0									0
N	89	79	91	75									334
N7	145	88	211	165									609
N8	160	184	104	129									576
NORTH OAKS CENTRAL	0	0	0	0									0
NORTH OAKS EAST	0	0	0	0									0
NORTH OAKS WEST	0	0	0	0									0
P1	15	12	0	0									27
P3	52	46	13	14									127
P4	0	0	0	0									0
P5	0	0	0	0									0
Q2	0	0	0	0									0
S6	0	0	0	0									0
S7	0	0	0	0									0
S8	0	0	0	0									1
SAND CANYON	28	63	52	52									195
SANTA CLARA	0	0	0	0									0
SIERRA	40	48	57	53									197
T7	0	0	0	0									0
U4	0	0	0	0									0
U6	0	0	0	0									0
VALLEY CENTER	0	0	0	0									0
W9	35	50	61	82									228
W10	58	95	108	152									413
W11	45	63	79	106									293
	922	1074	1135	1195	0	0	0	0	0	0	0	0	4326
GROUNDWATER - SAUGUS													
159	0	0	1	3									4
160 - DOM	35	42	0	0									77
160 - VGC (not included in % by Source)	13	25	0	0									37
201	0	0	0	0									0
205	0	0	0	0									0
206	50	106	132	157									445
207	54	116	140	130									439
N12	109	117	142	145									512
N13	122	132	161	166									581
SAUGUS 1	103	93	102	98									396
SAUGUS 2	3	1	0	88									93
	489	630	678	788	0	0	0	0	0	0	0	0	2585
TOTAL GROUNDWATER	1411	1704	1813	1983	0	0	0	0	0	0	0	0	6910

SANTA CLARITA VALLEY WATER AGENCY
 WATER PRODUCTION 2022 (ACRE-FEET)

SURFACE WATER + SAUGUS 1 & SAUGUS 2	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
N-1	26	30	28	26									111
N-2	27	61	123	133									345
N-3	26	49	34	45									155
N-4	60	107	107	133									407
SC-1	253	264	260	216									994
SC-2	0	13	125	226									365
SC-3	4	37	104	111									255
SC-4	287	354	315	310									1266
SC-5	16	0	0	44									60
SC-6	70	81	73	69									292
SC-7	154	201	195	168									718
SC-8	120	163	159	124									566
SC-9	263	245	291	289									1087
SC-10	25	31	28	36									120
SC-11	0	0	0	0									0
SC-12	48	54	129	175									405
SC-13	92	104	122	96									414
V-1	90	115	131	139									474
V-2	184	259	297	196									936
V-4	34	46	44	55									179
V-5	150	126	108	256									640
V-6	51	59	15	89									214
V-7	42	56	135	137									370
V-8	84	138	253	169									644
	2106	2593	3075	3243	0	0	0	0	0	0	0	0	11017
TOTAL SURFACE WATER - SAUGUS 1 & SAUGUS 2	1999	2499	2973	3057	0	0	0	0	0	0	0	0	10528
TOTAL PRODUCTION (GW + SURFACE WATER)	3410	4203	4786	5040	0	0	0	0	0	0	0	0	17439
% BY SOURCE													
GROUNDWATER	41%	40%	38%	39%									39%
SURFACE WATER	59%	60%	62%	61%									61%
RAW WATER - SOURCE													
RVWTP	55	0	0	2,977									3,032
ESFP	1,837	2,459	2,810	208									7,313
RECYCLED WATER													
RWPS 1	15	19	31	57									123
WHOLESALE - LA COUNTY WATERWORKS 36													
LA 1	0	0	0	0									0
LA 3	0	0	0	0									0
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0

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SCVWA PRODUCTION WELLS



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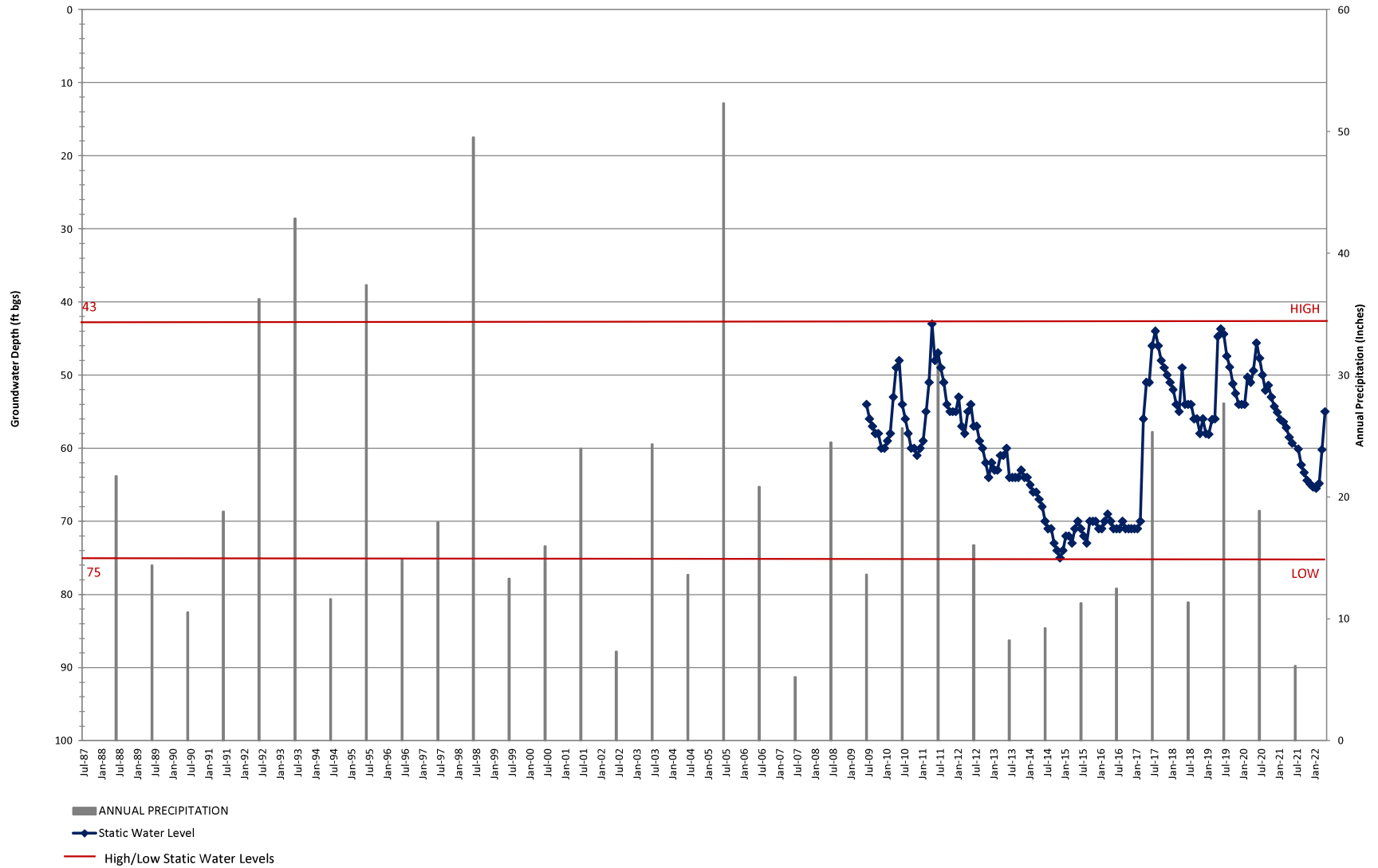
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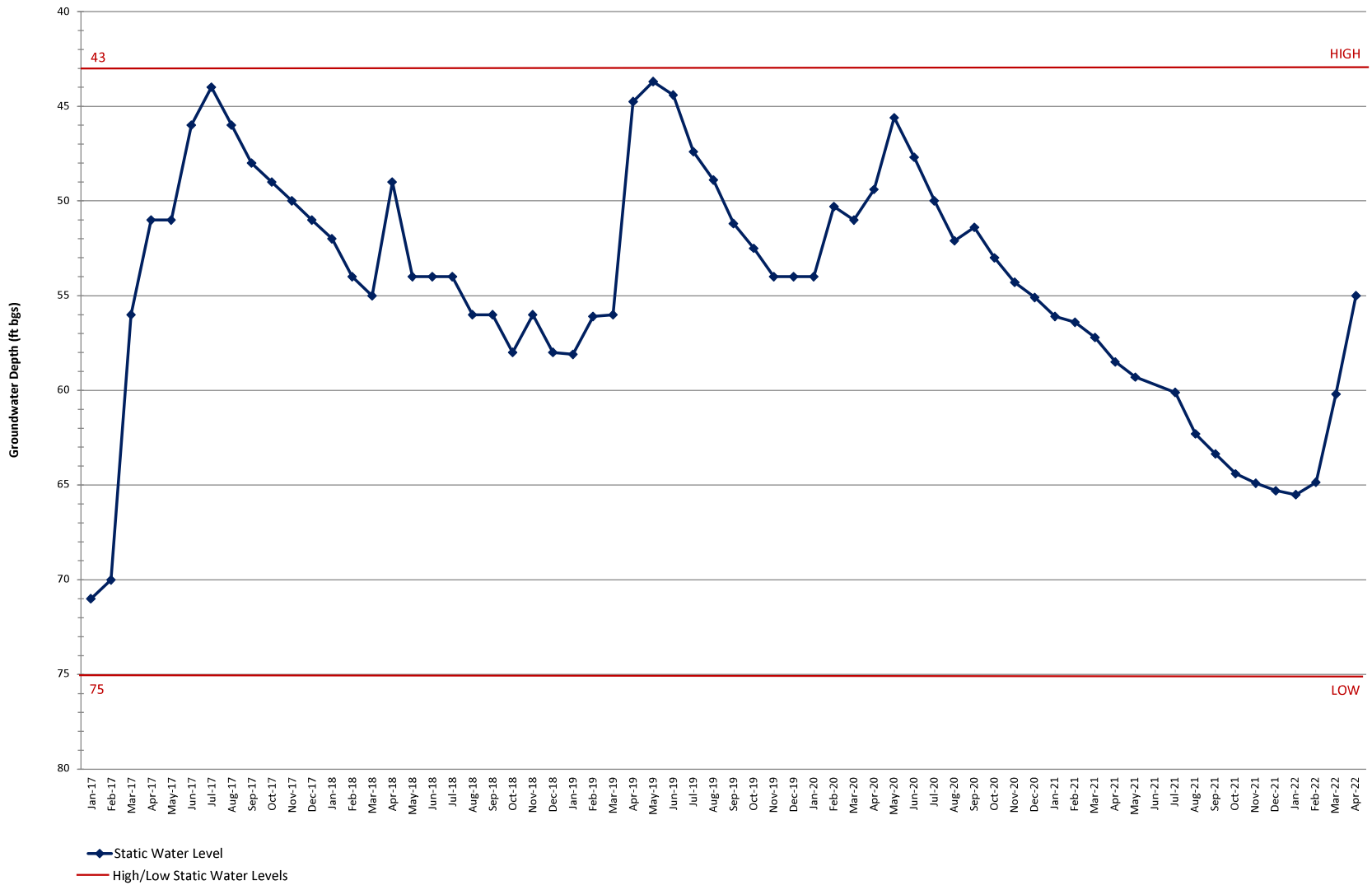
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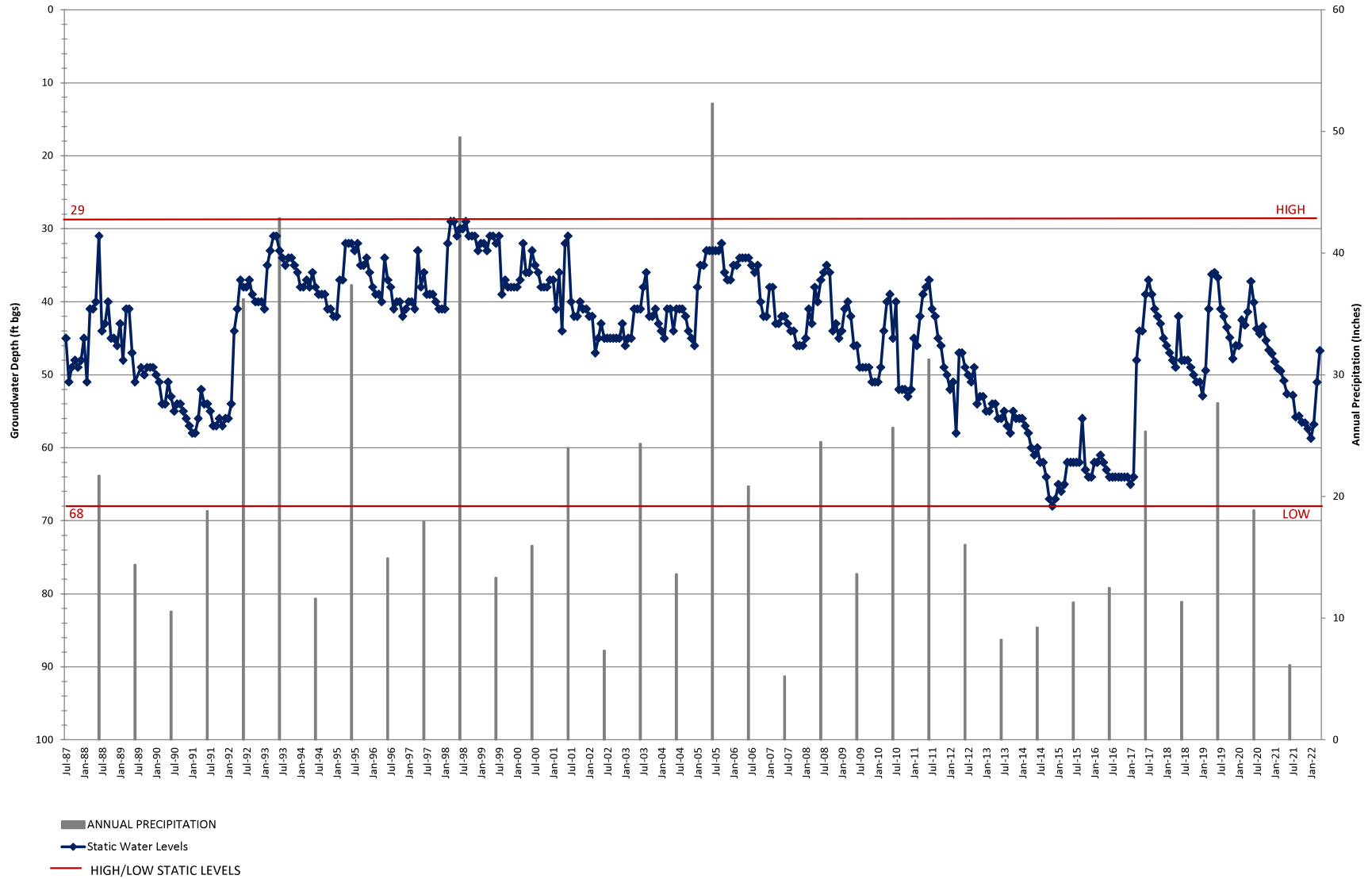
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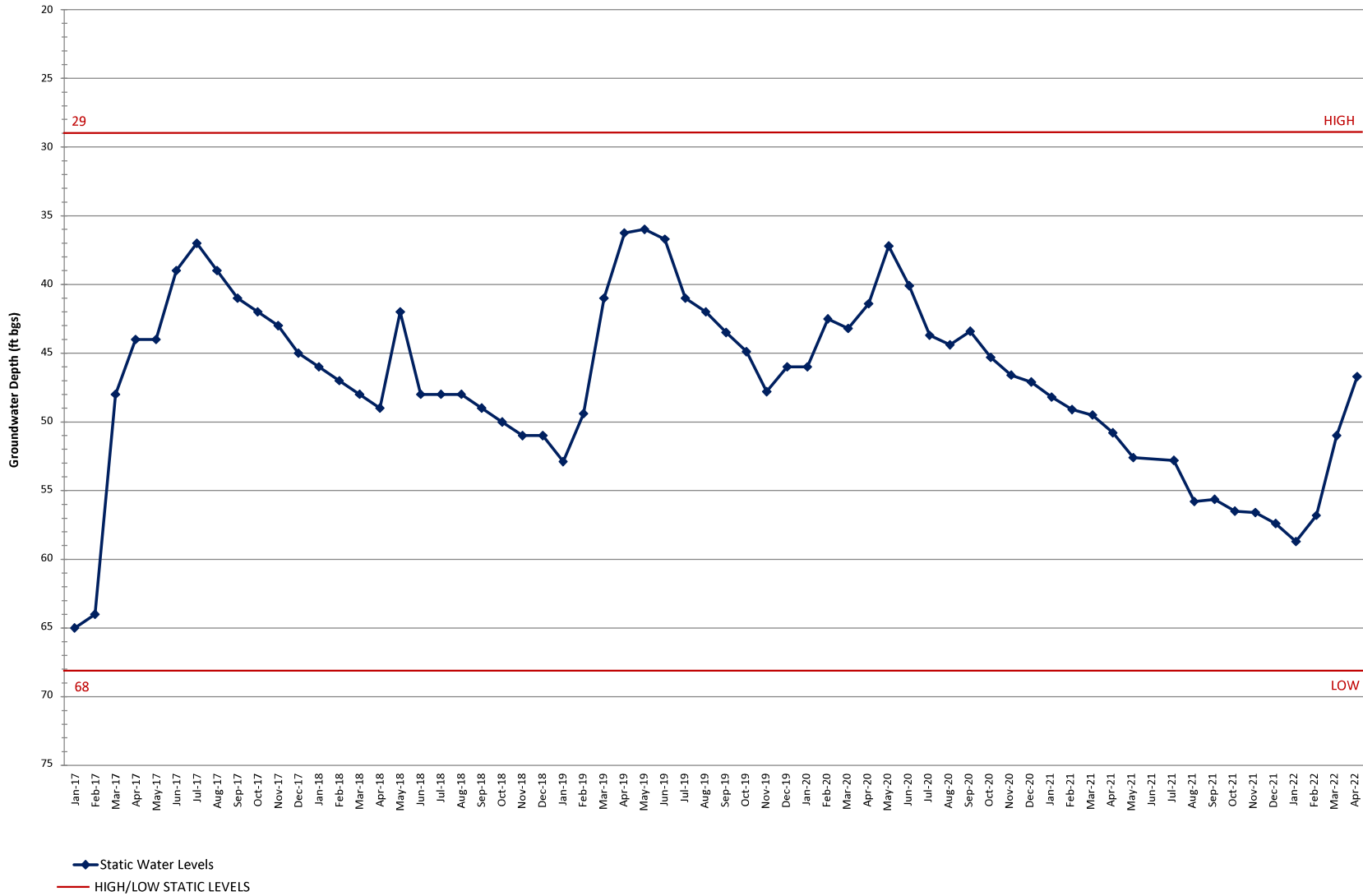
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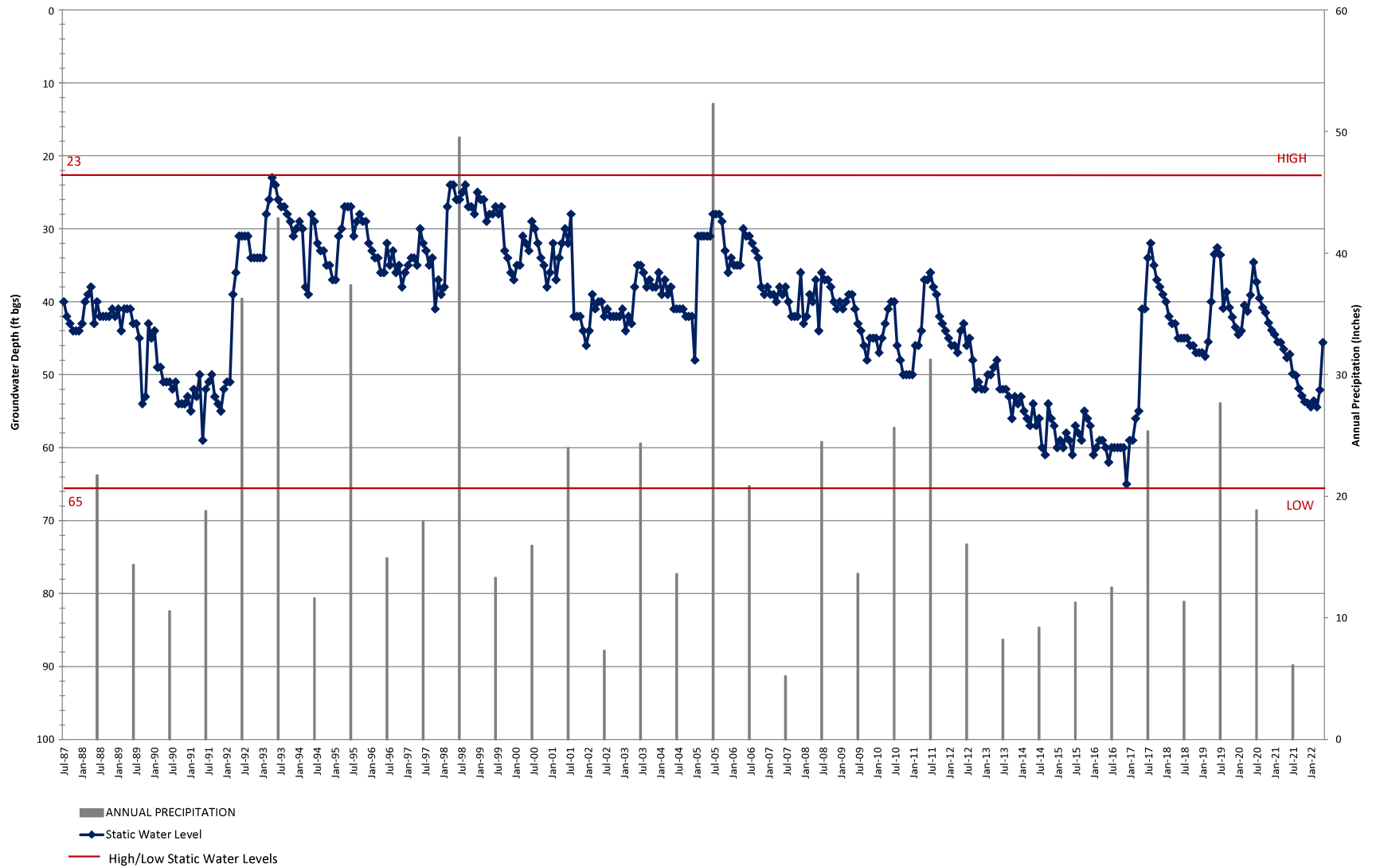
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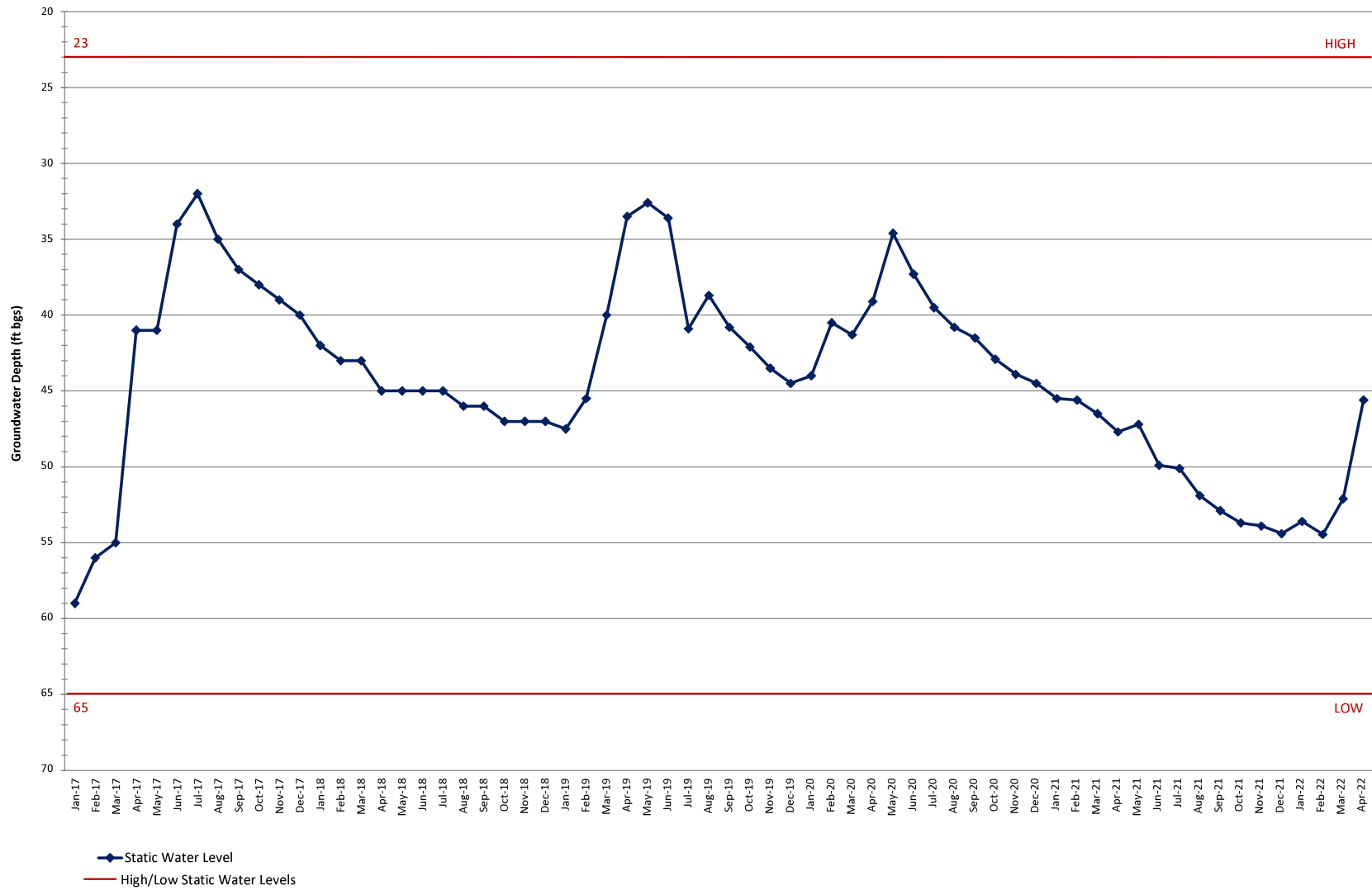
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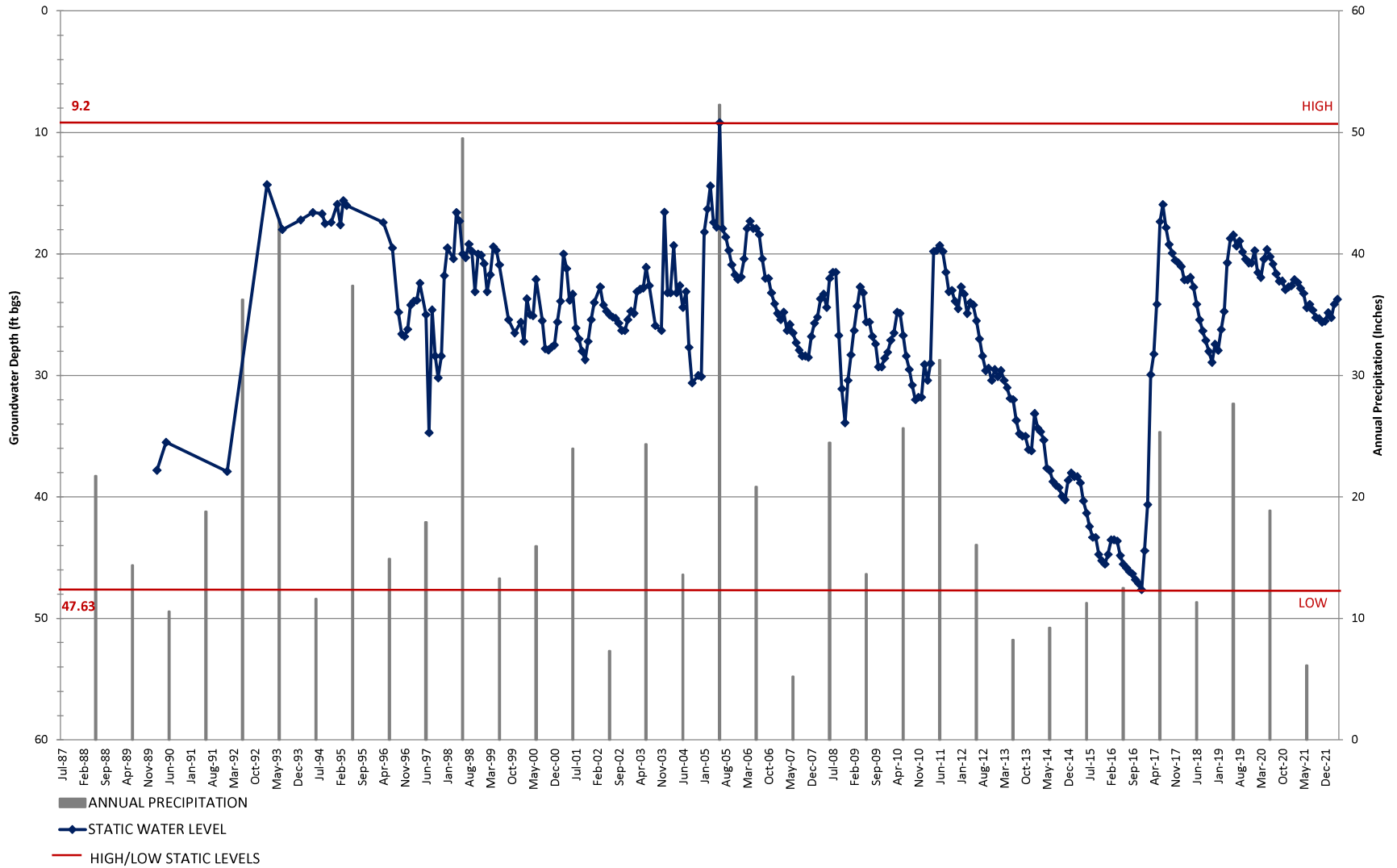
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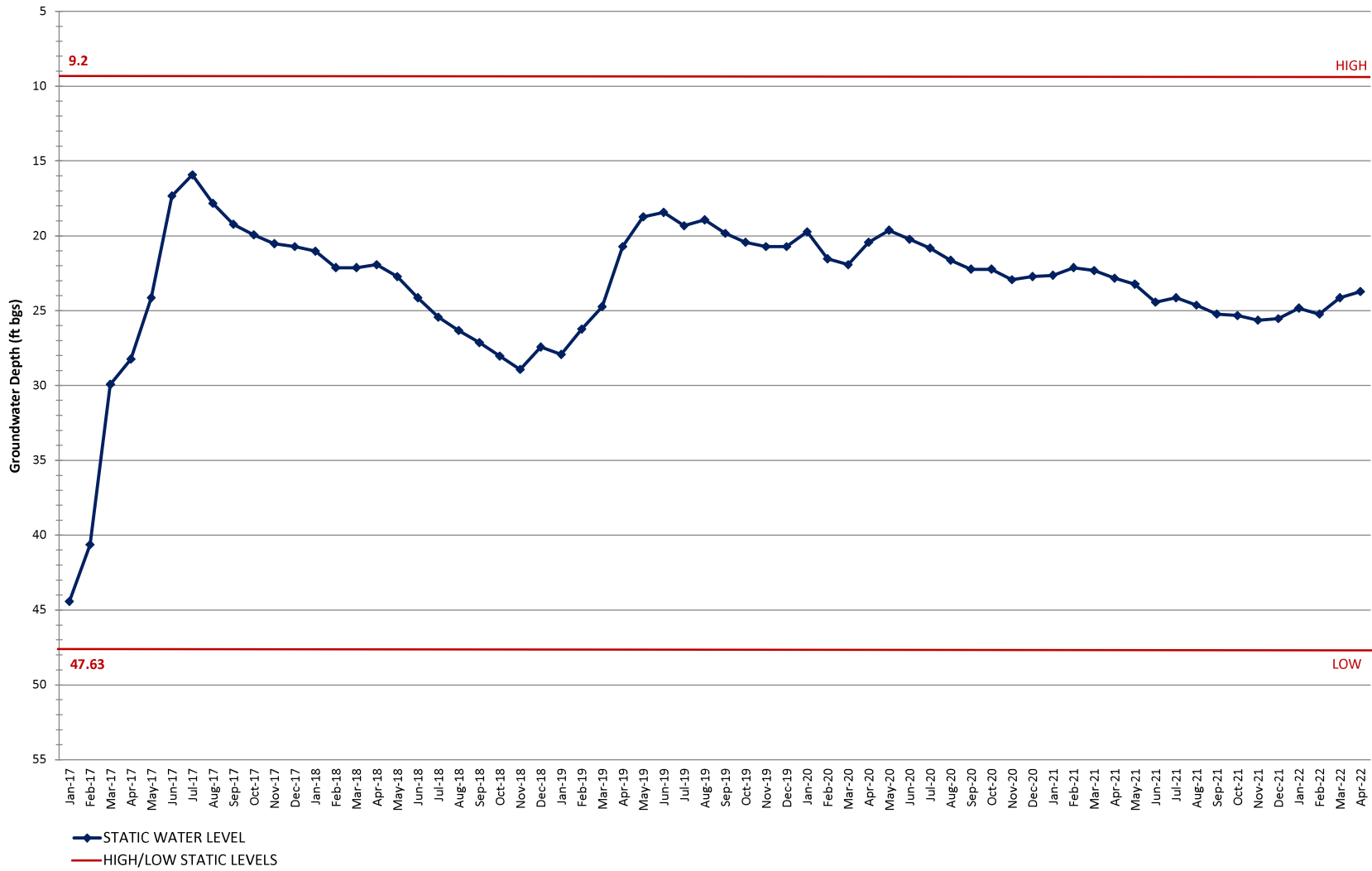
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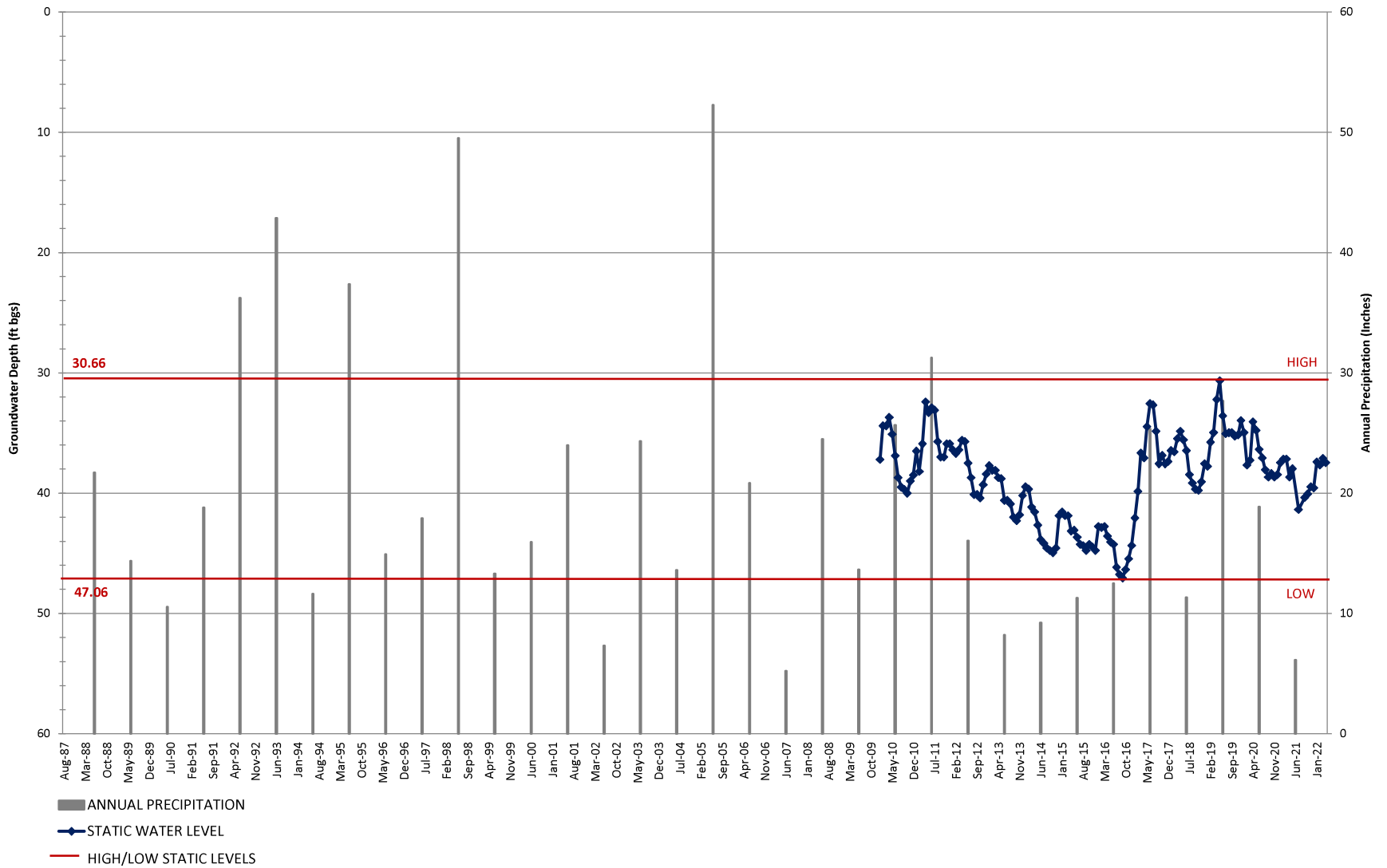
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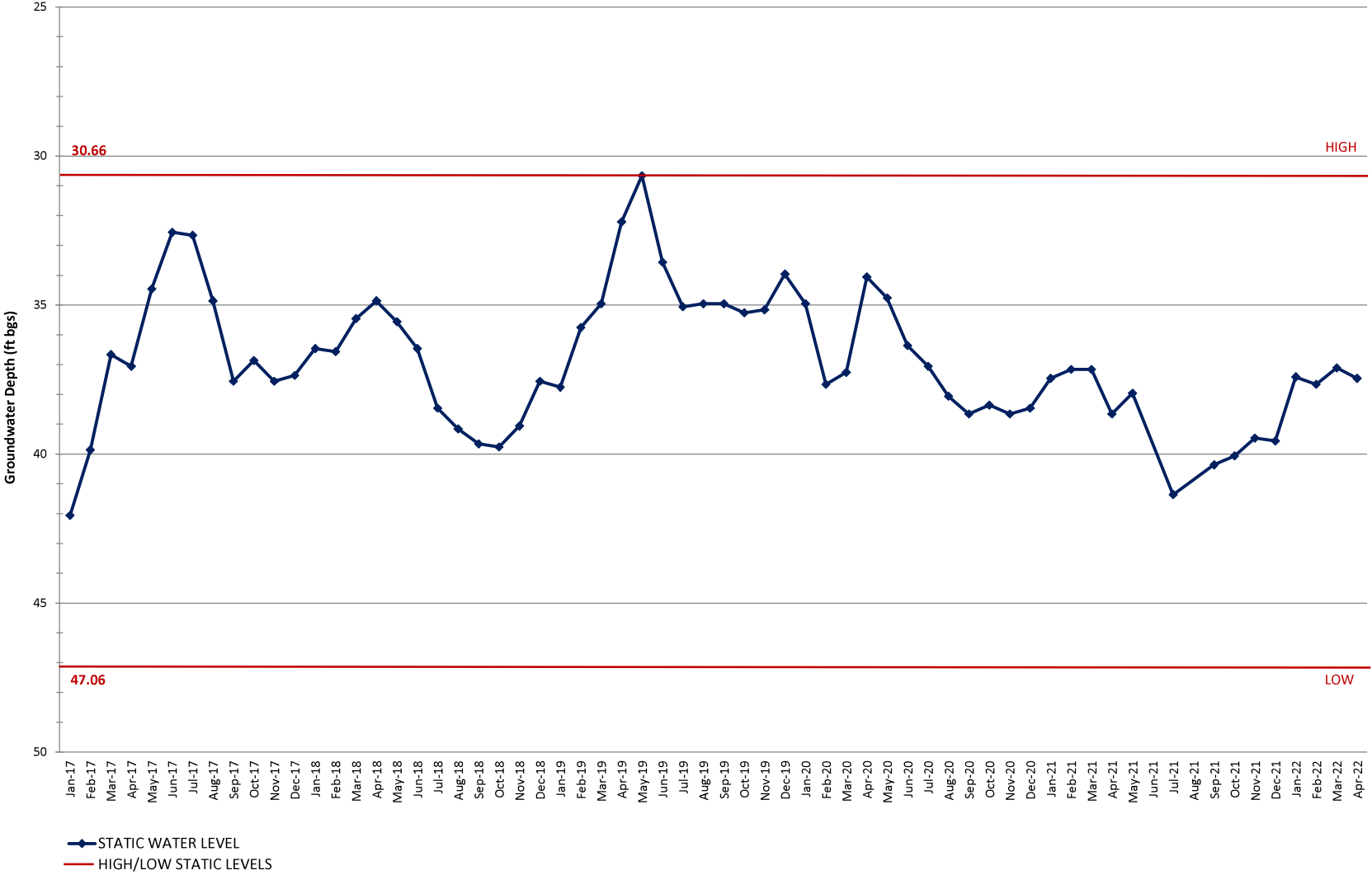
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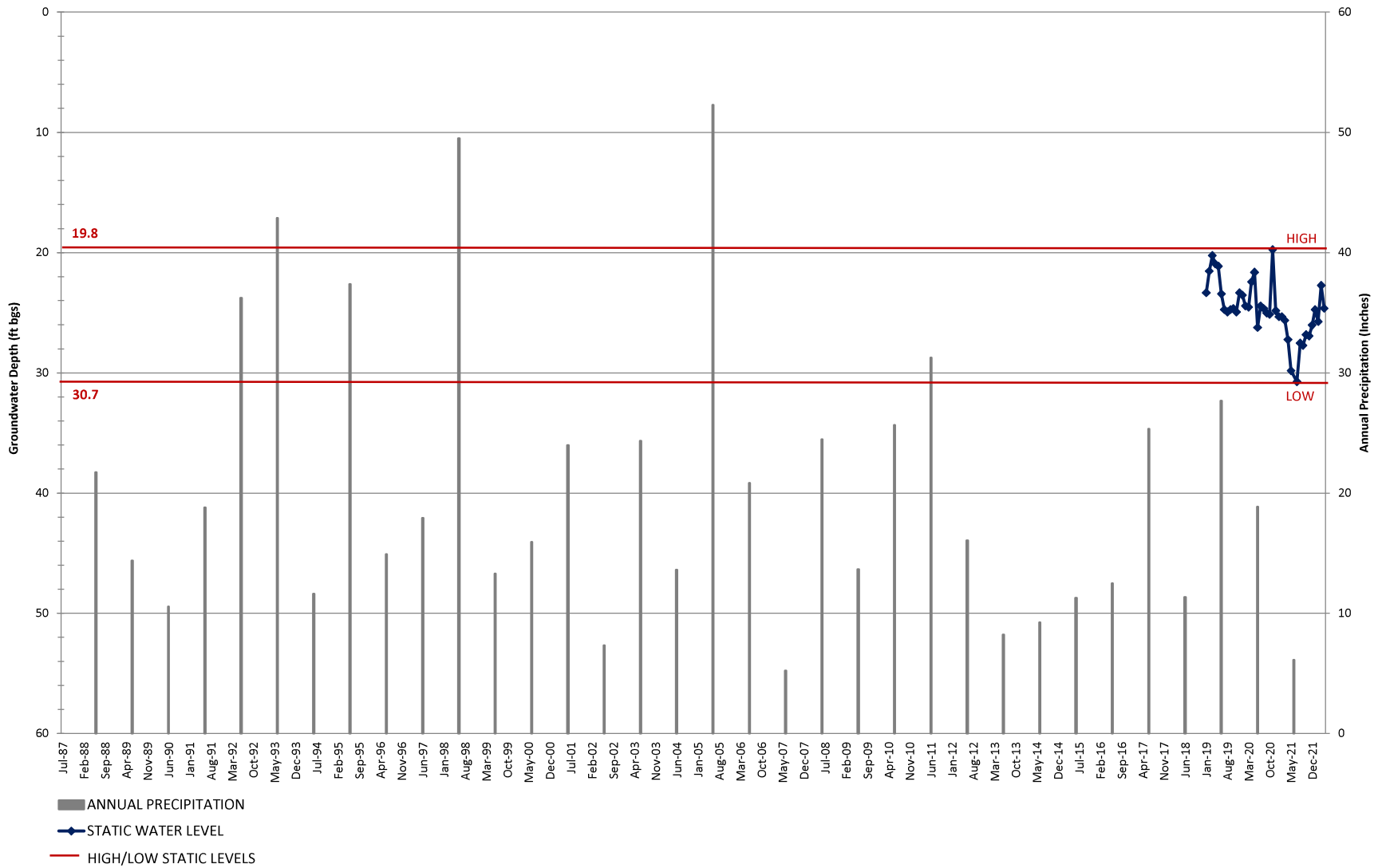
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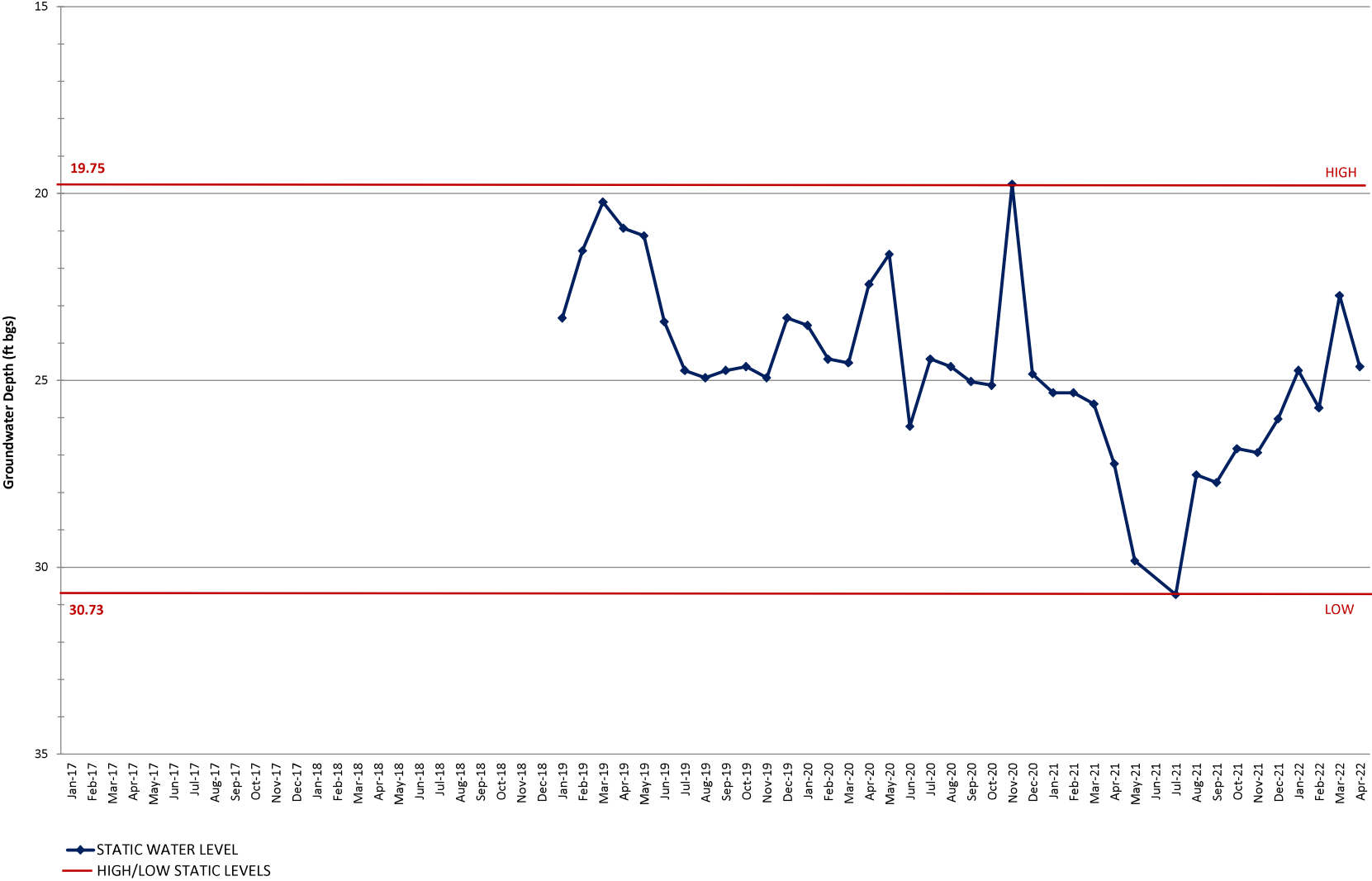
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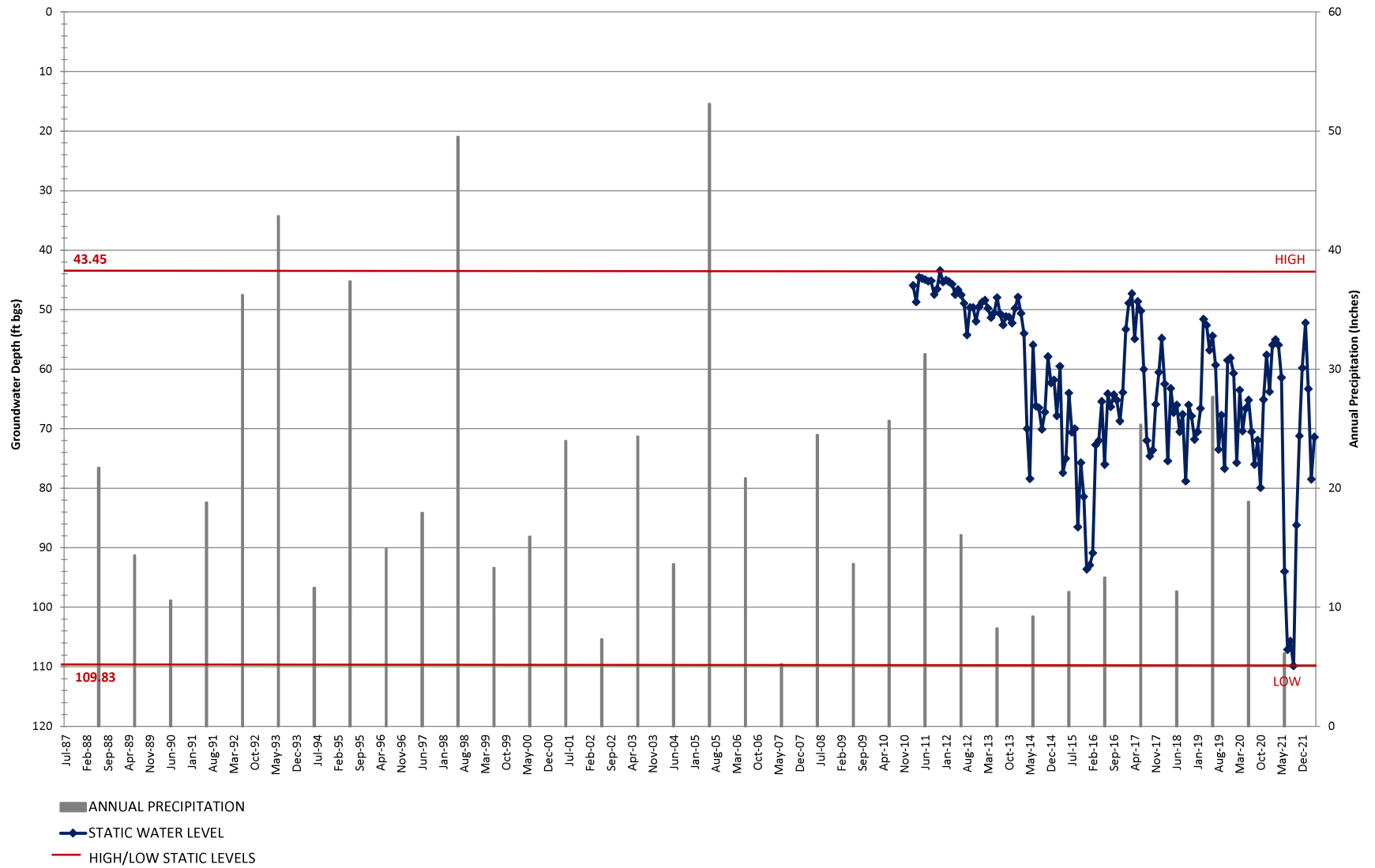
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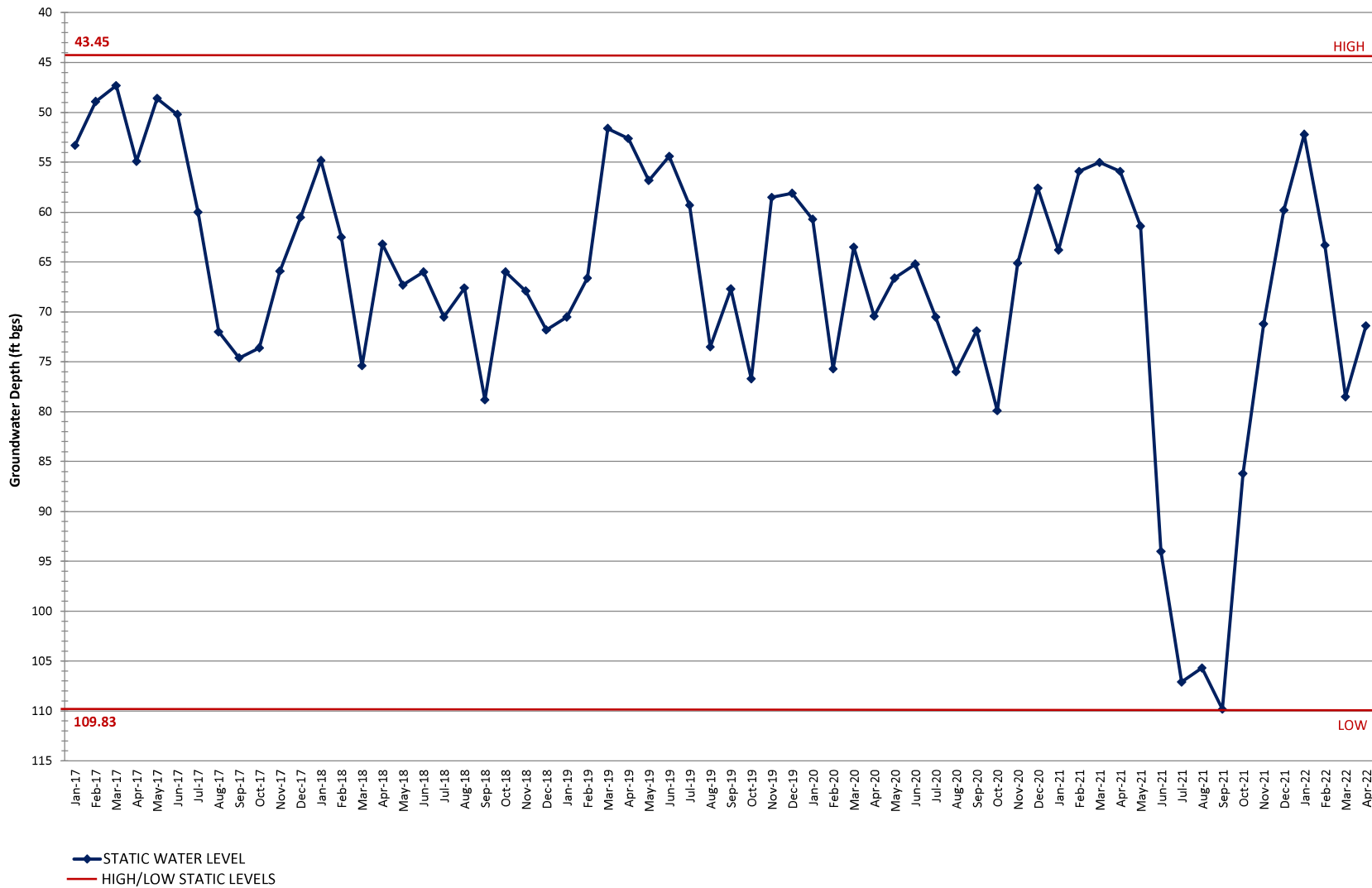
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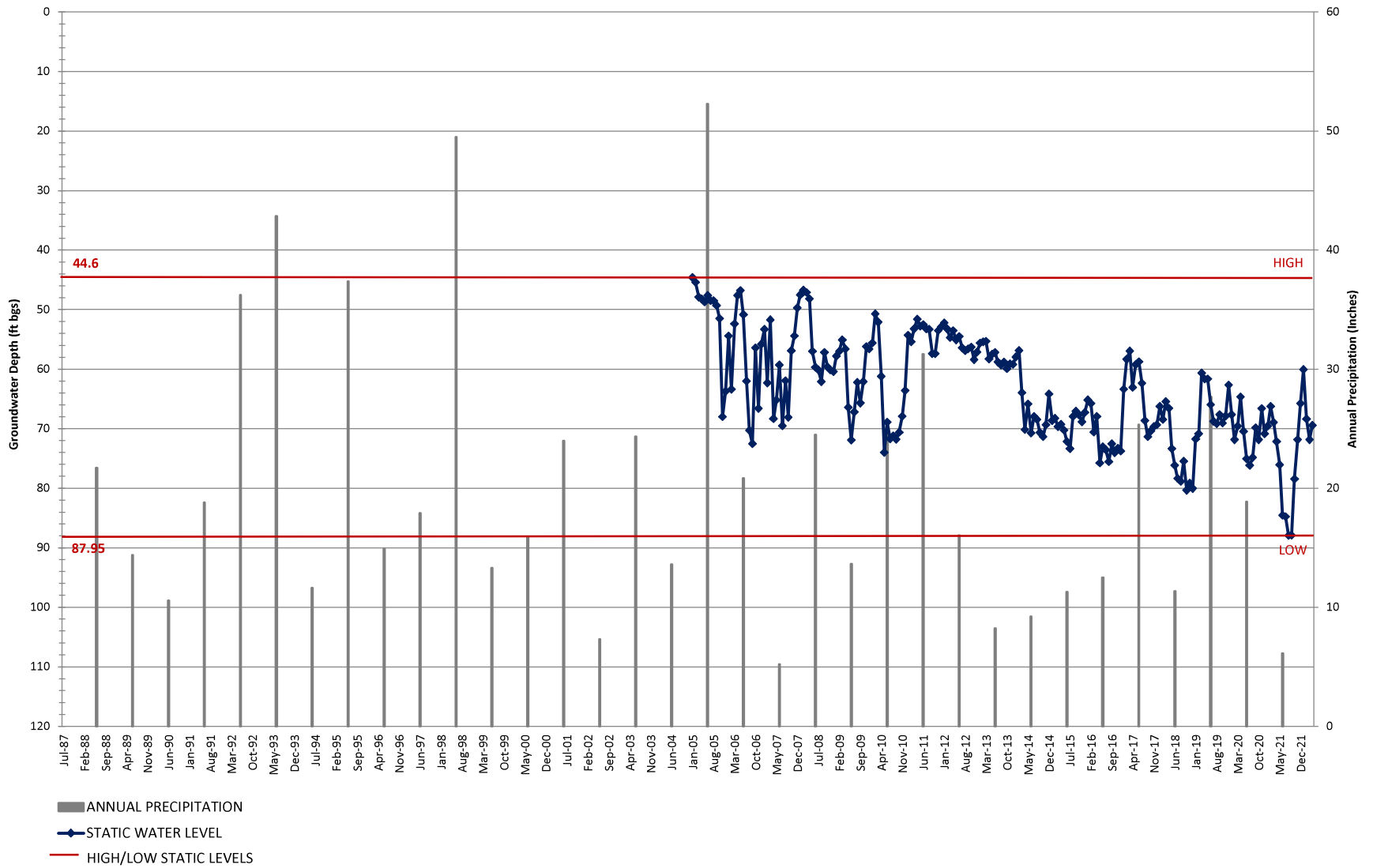
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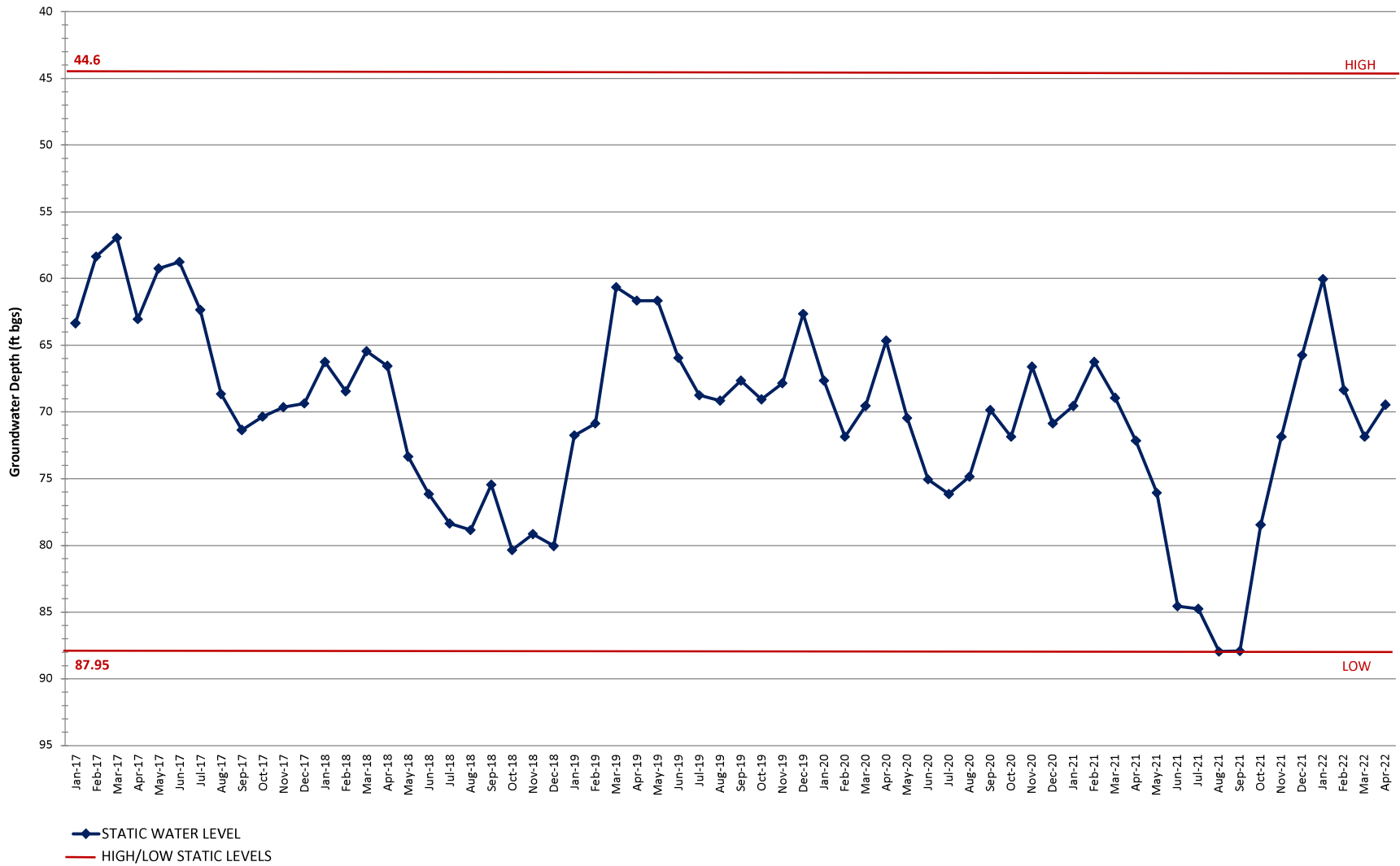
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 STATIC WATER LEVEL



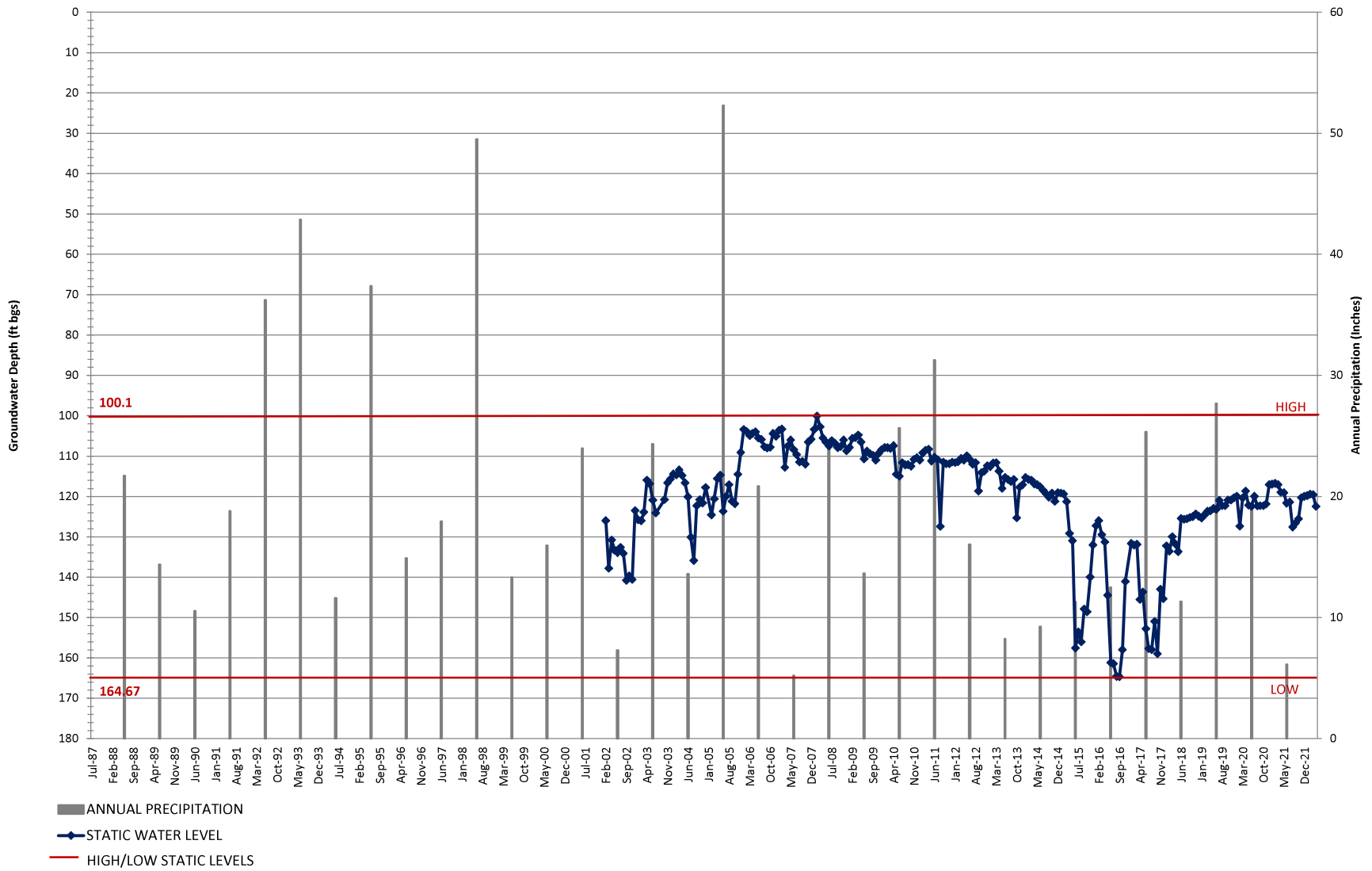
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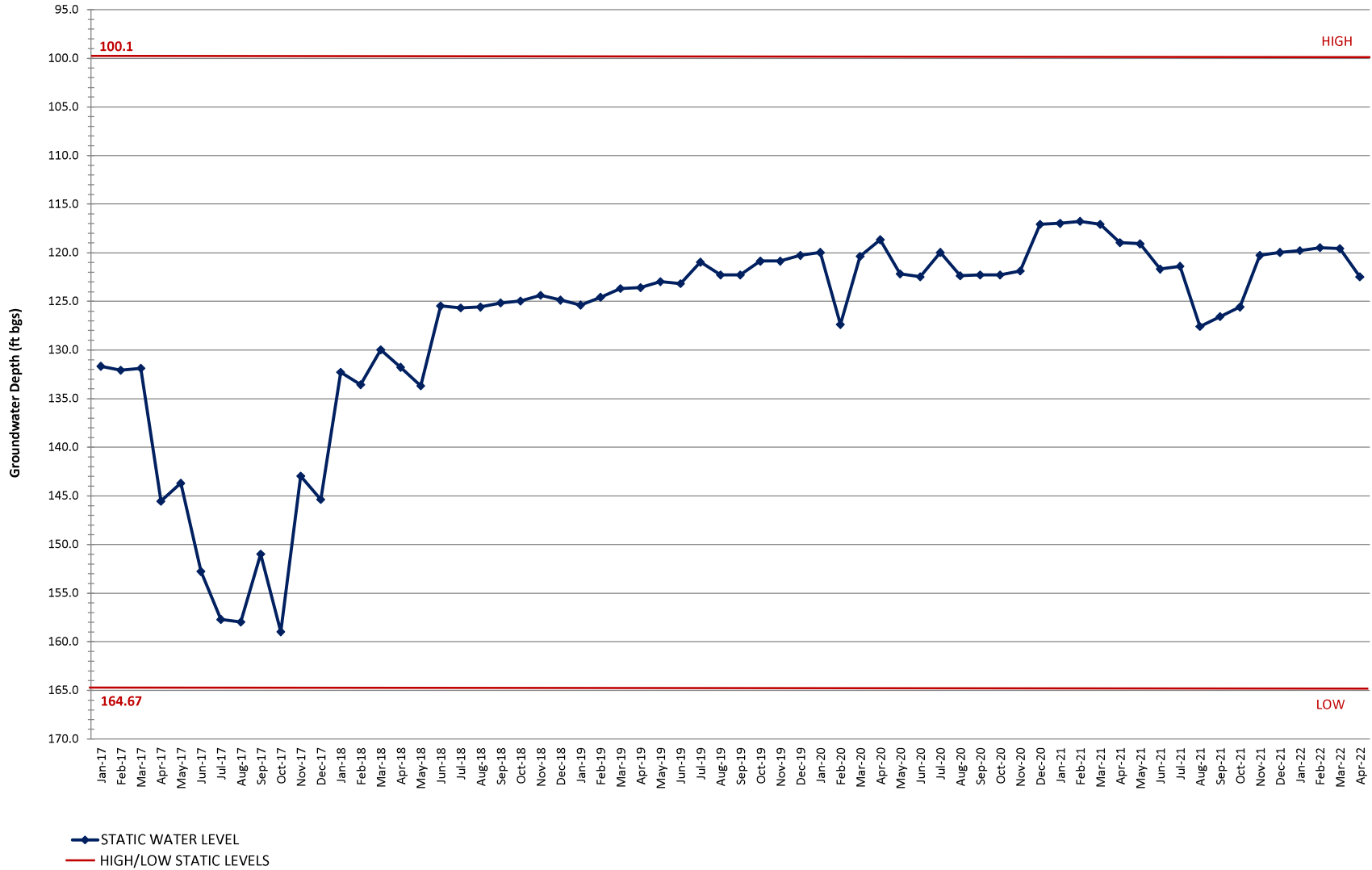
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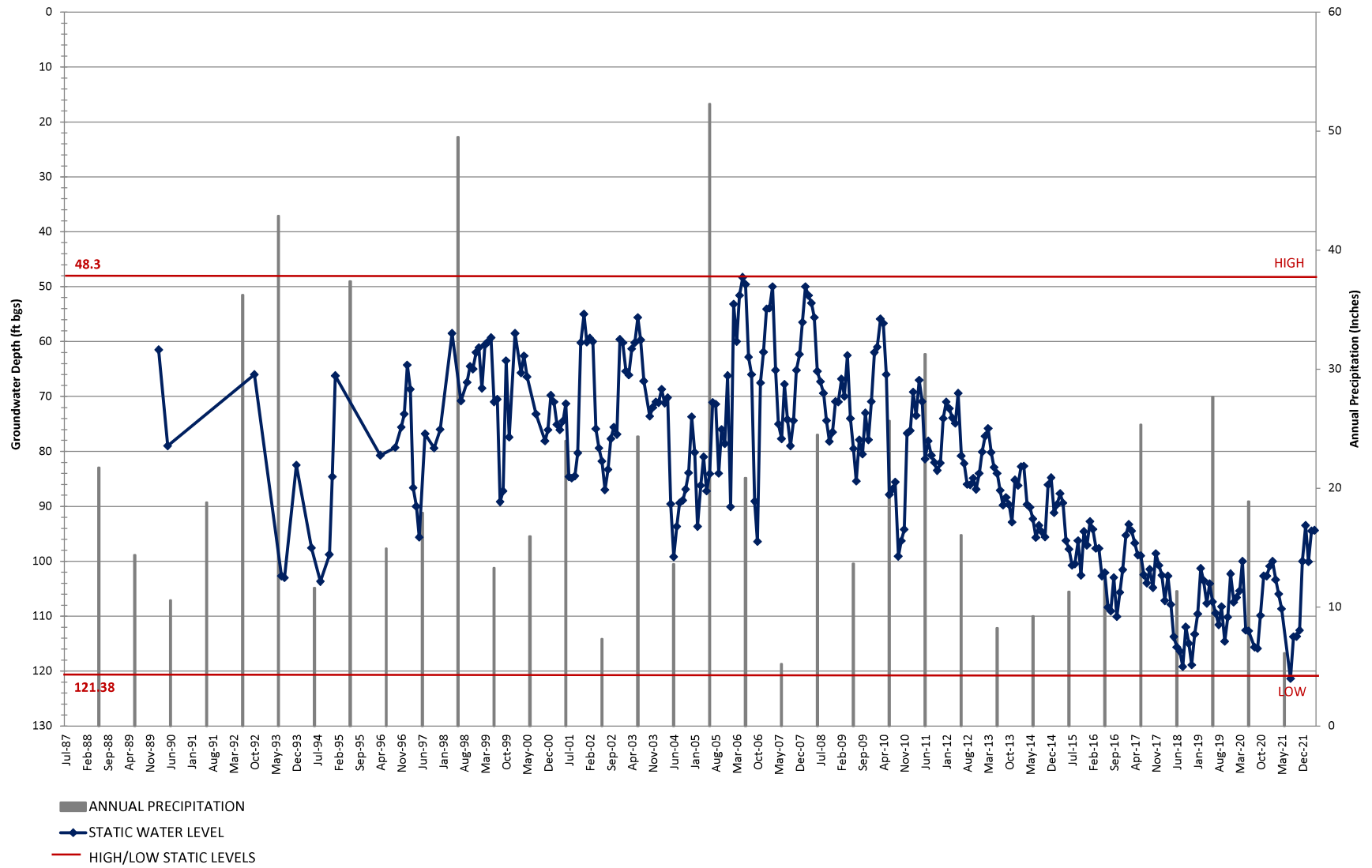
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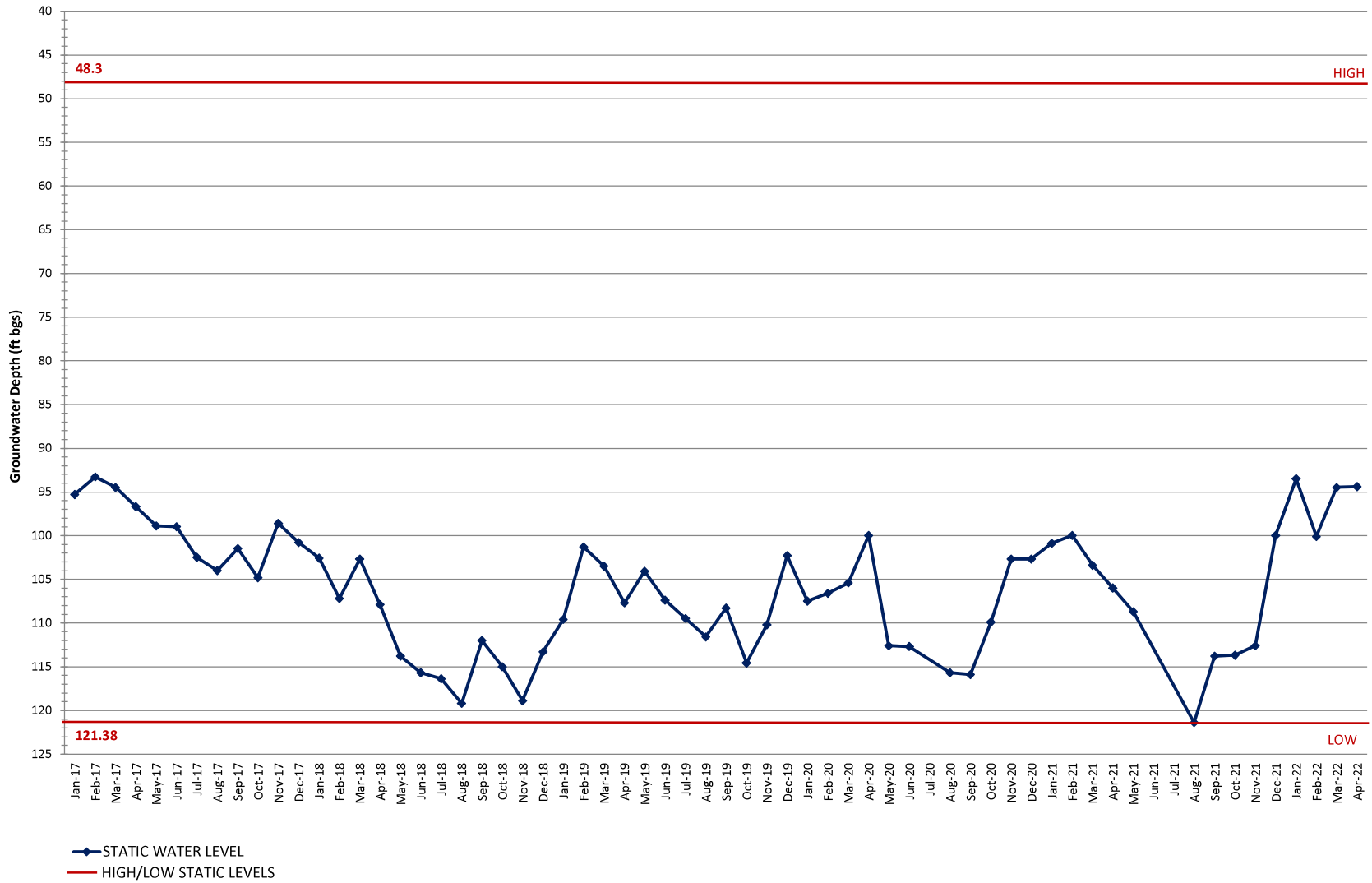
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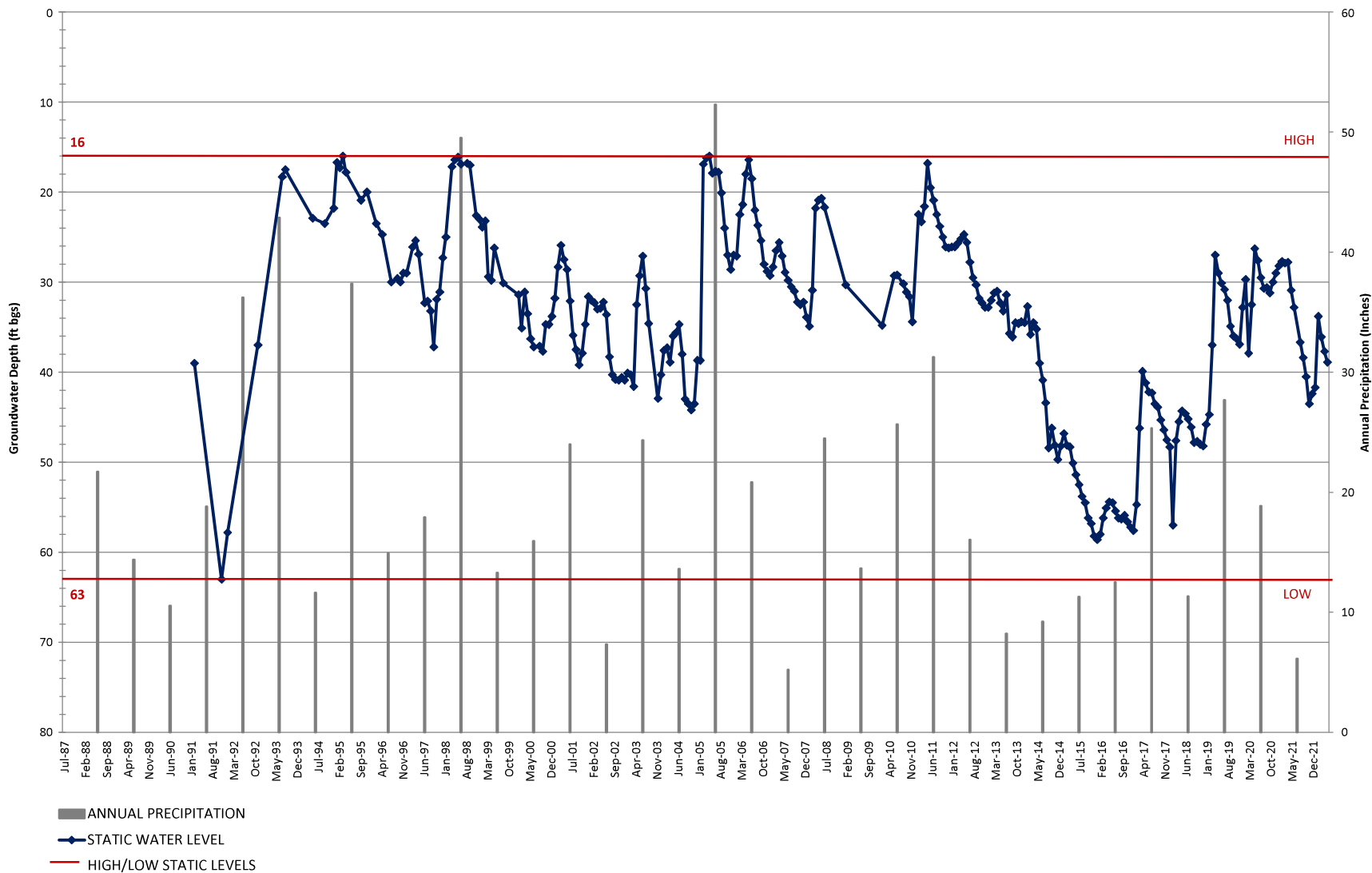
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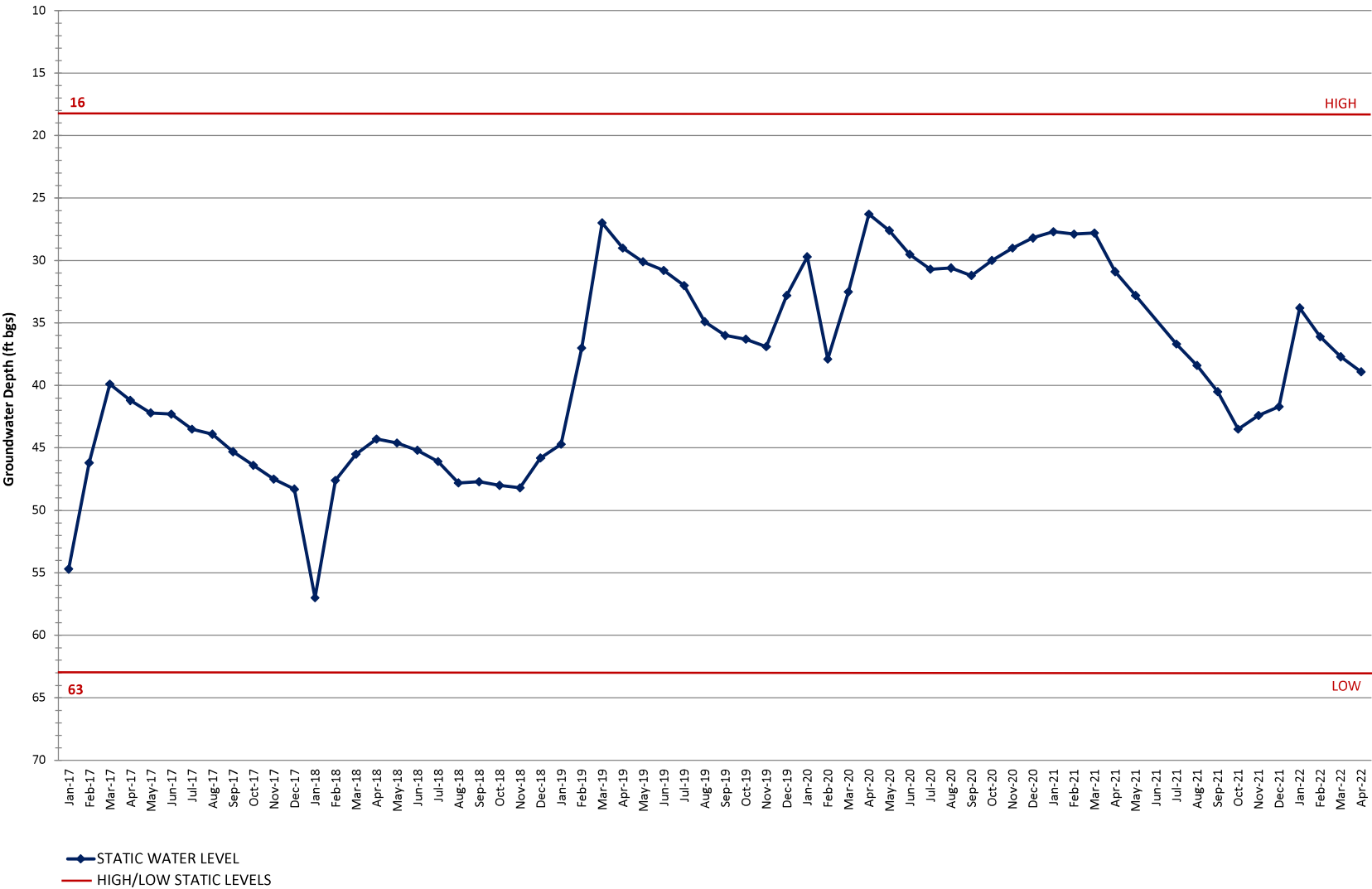
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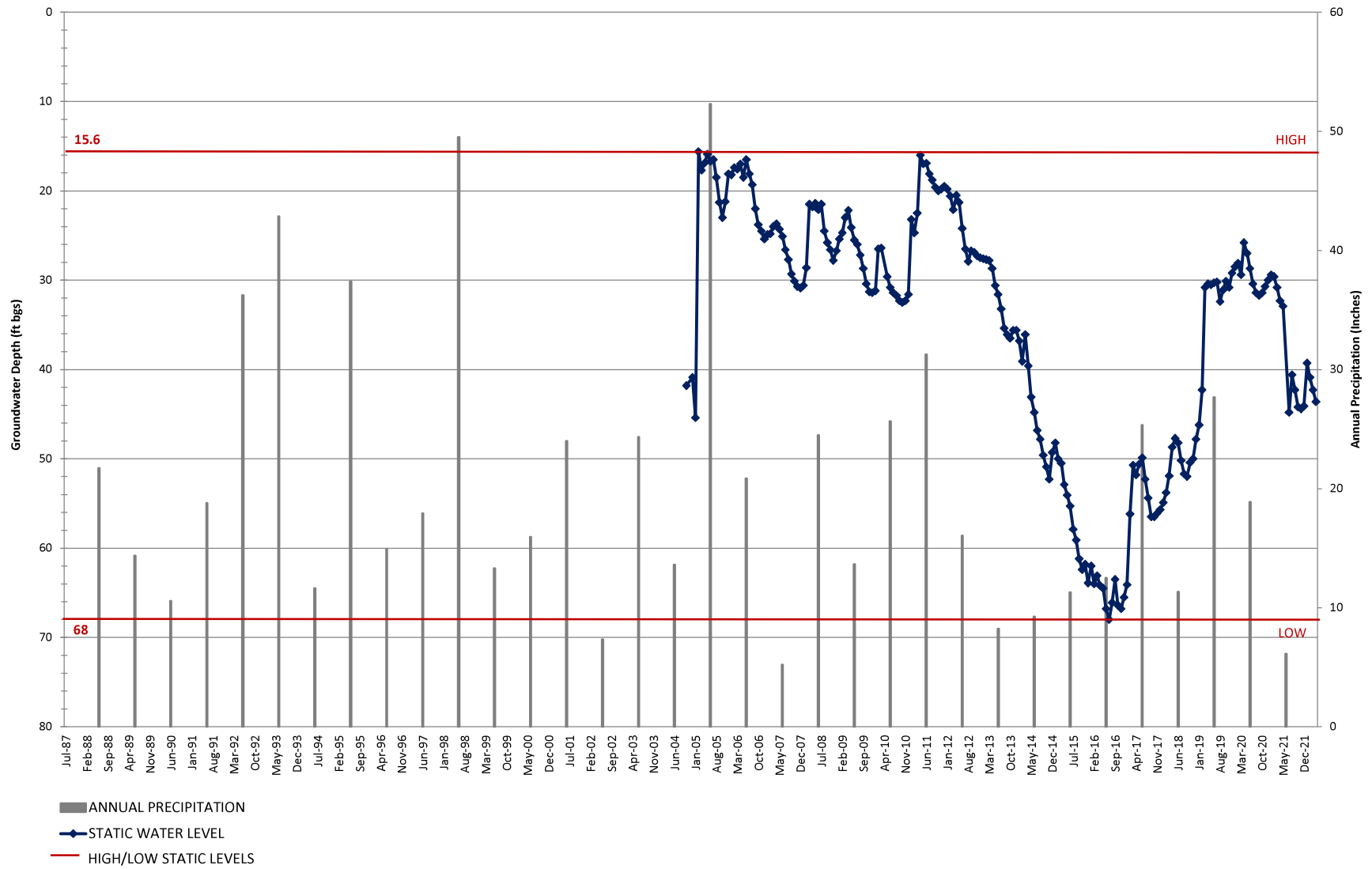
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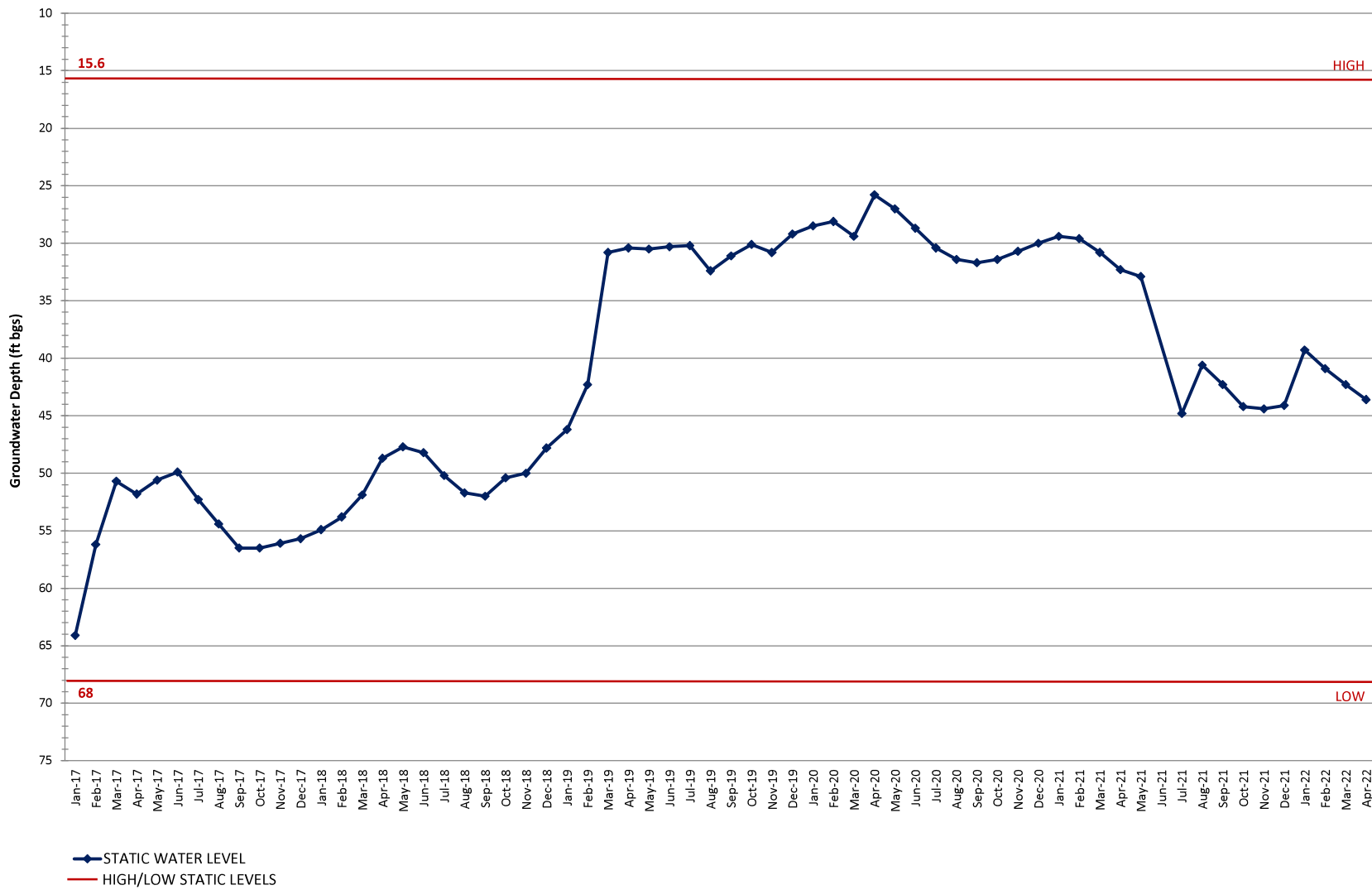
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STATIC WATER LEVEL



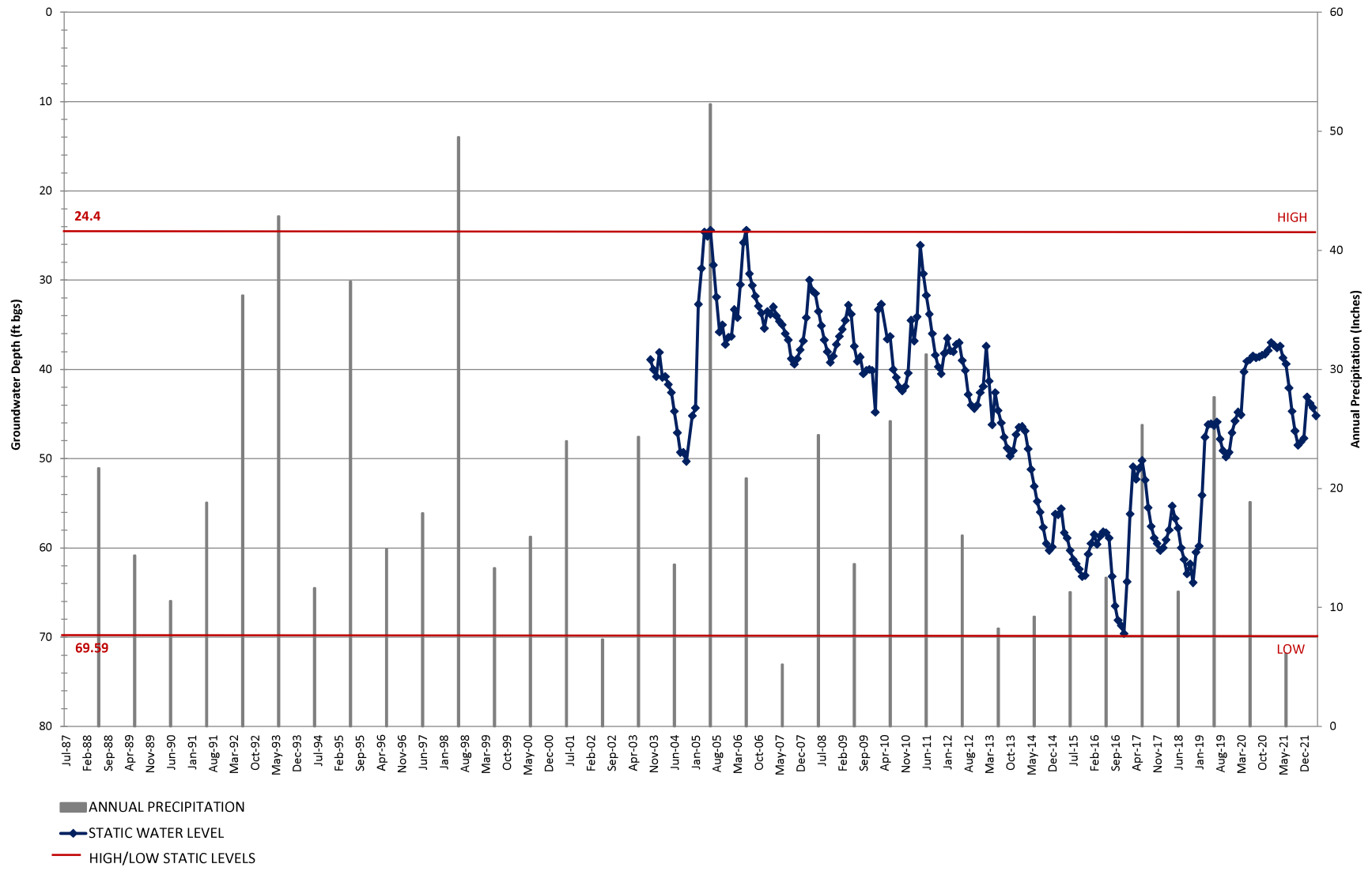
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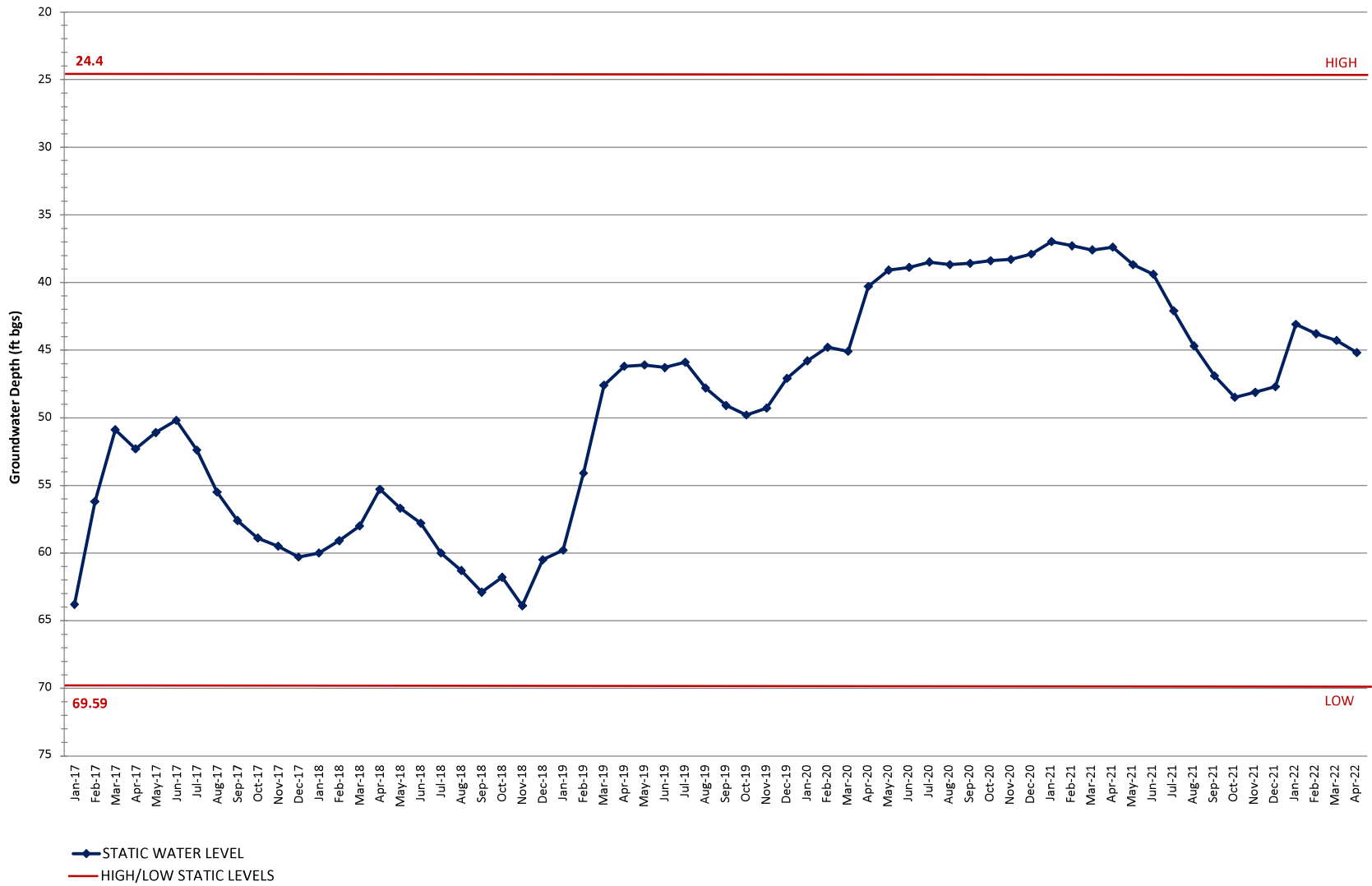
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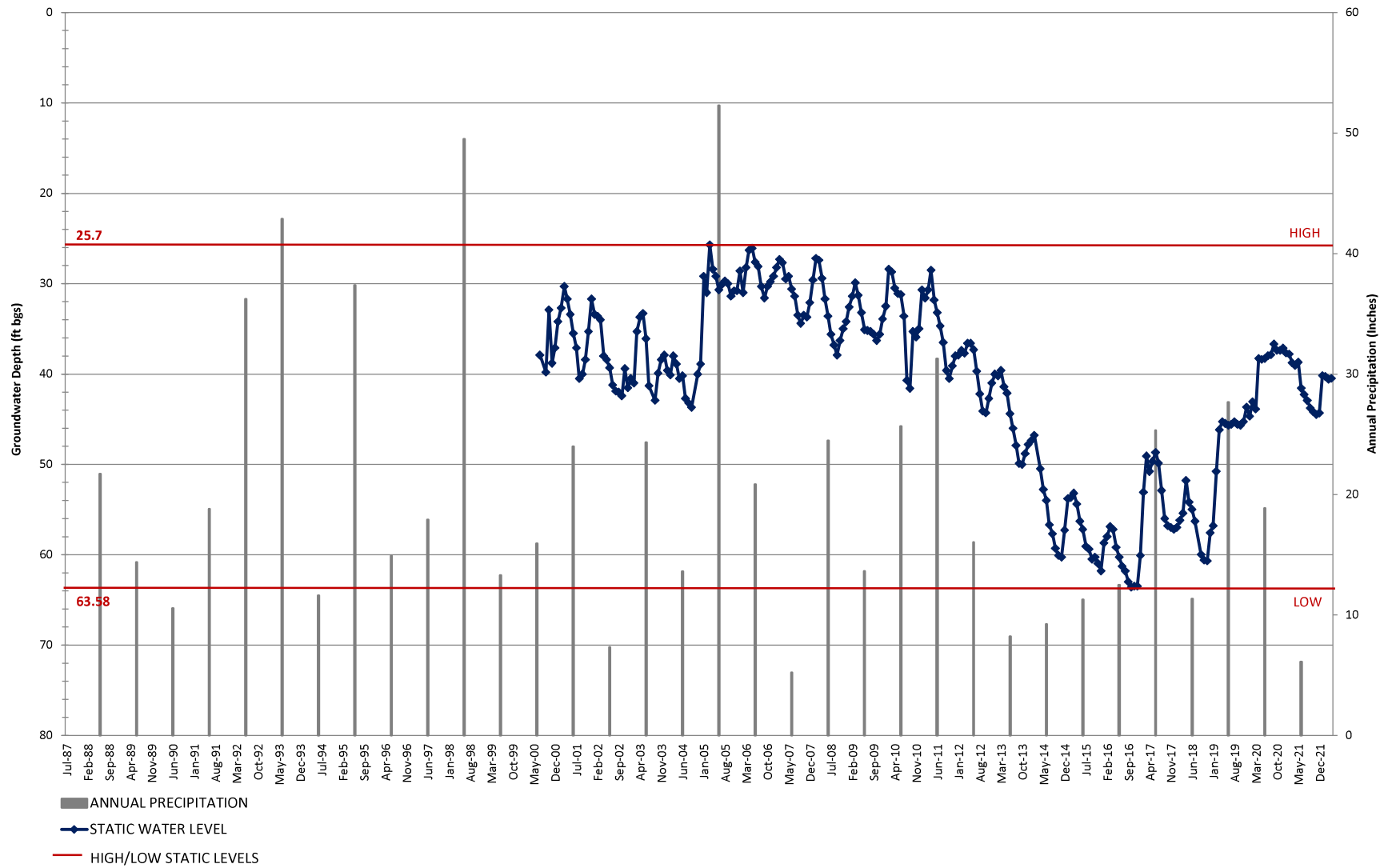
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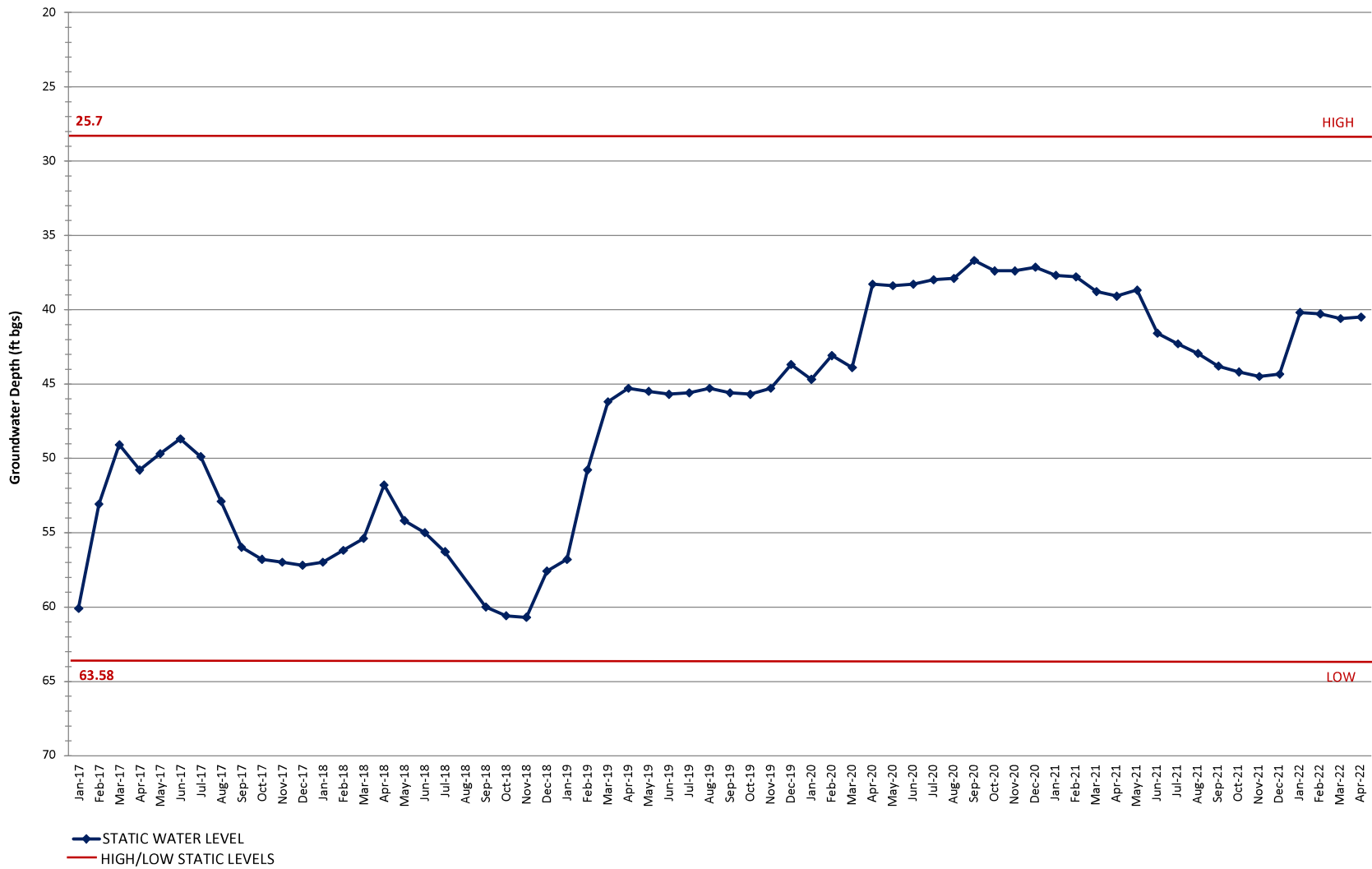
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 STATIC WATER LEVEL



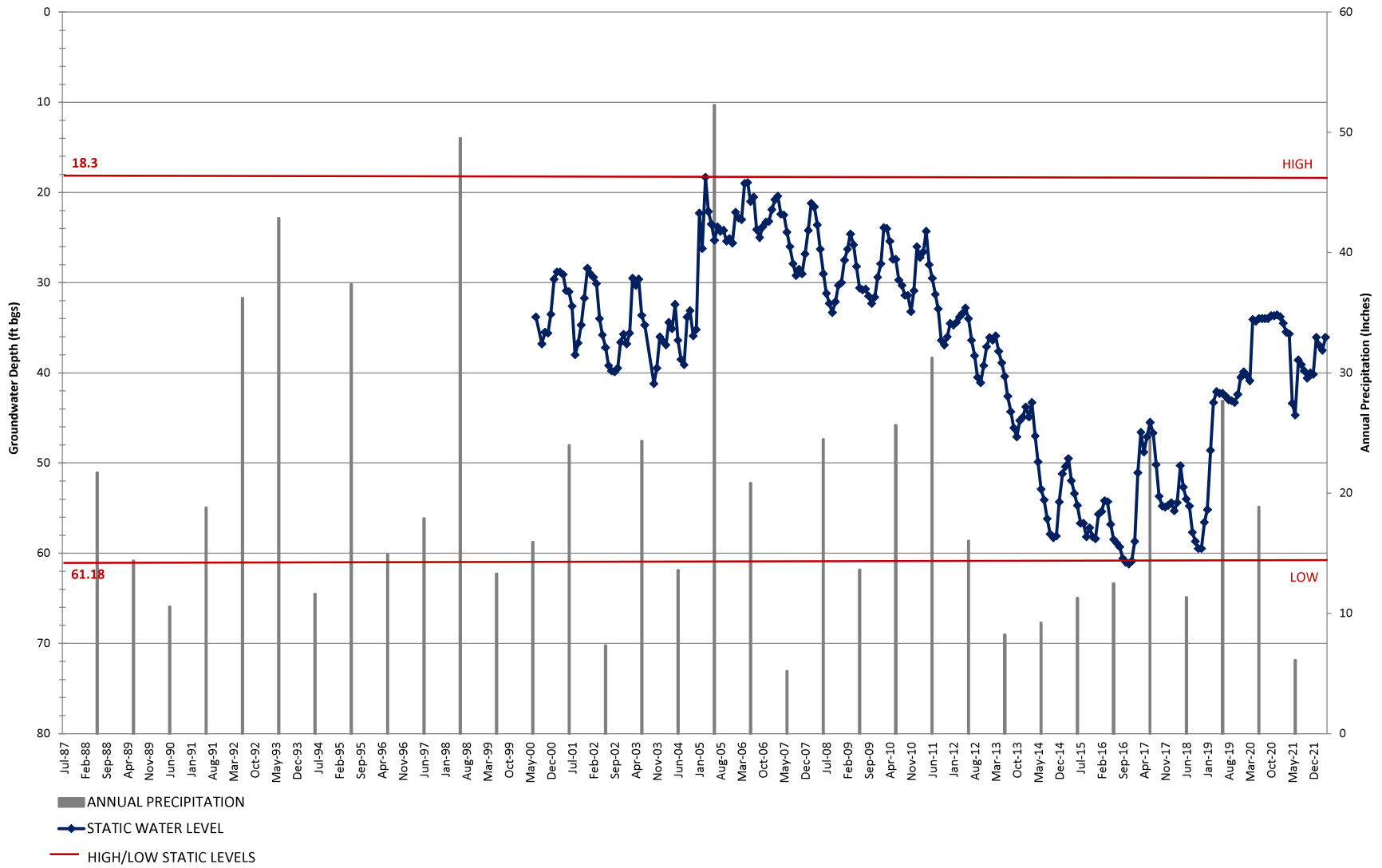
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 STATIC WATER LEVEL VS PRECIPITATION



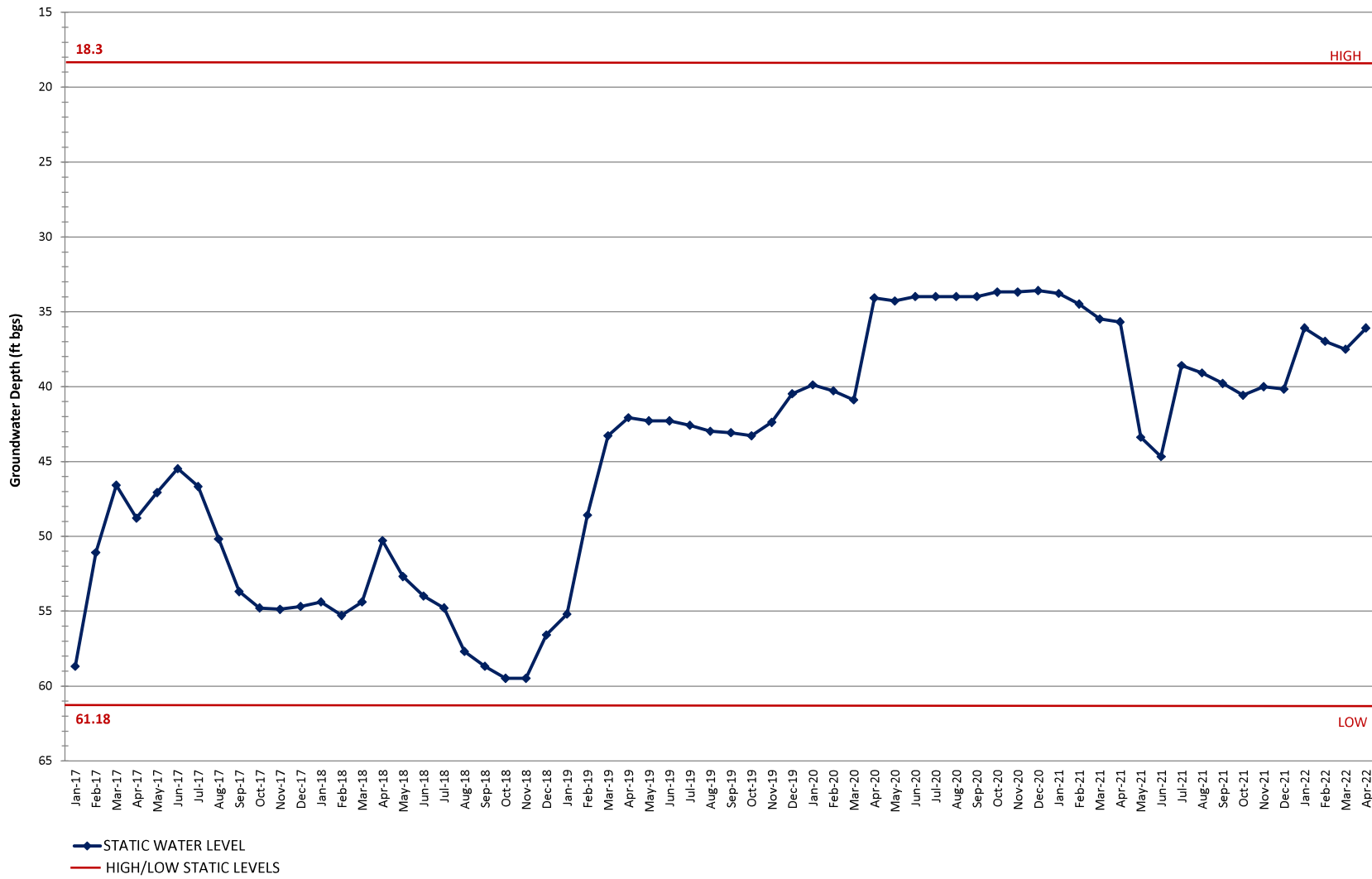
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STATIC WATER LEVEL



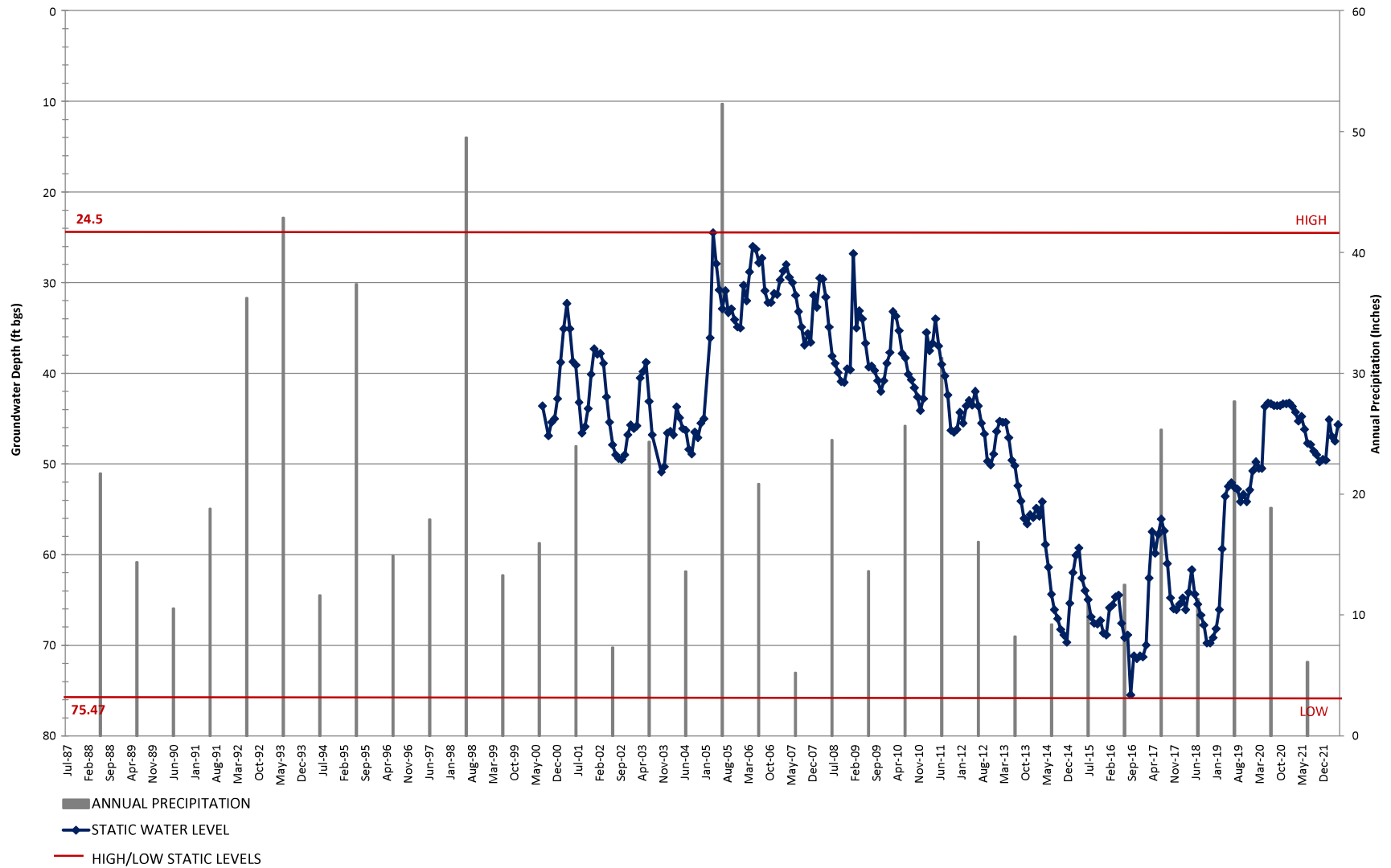
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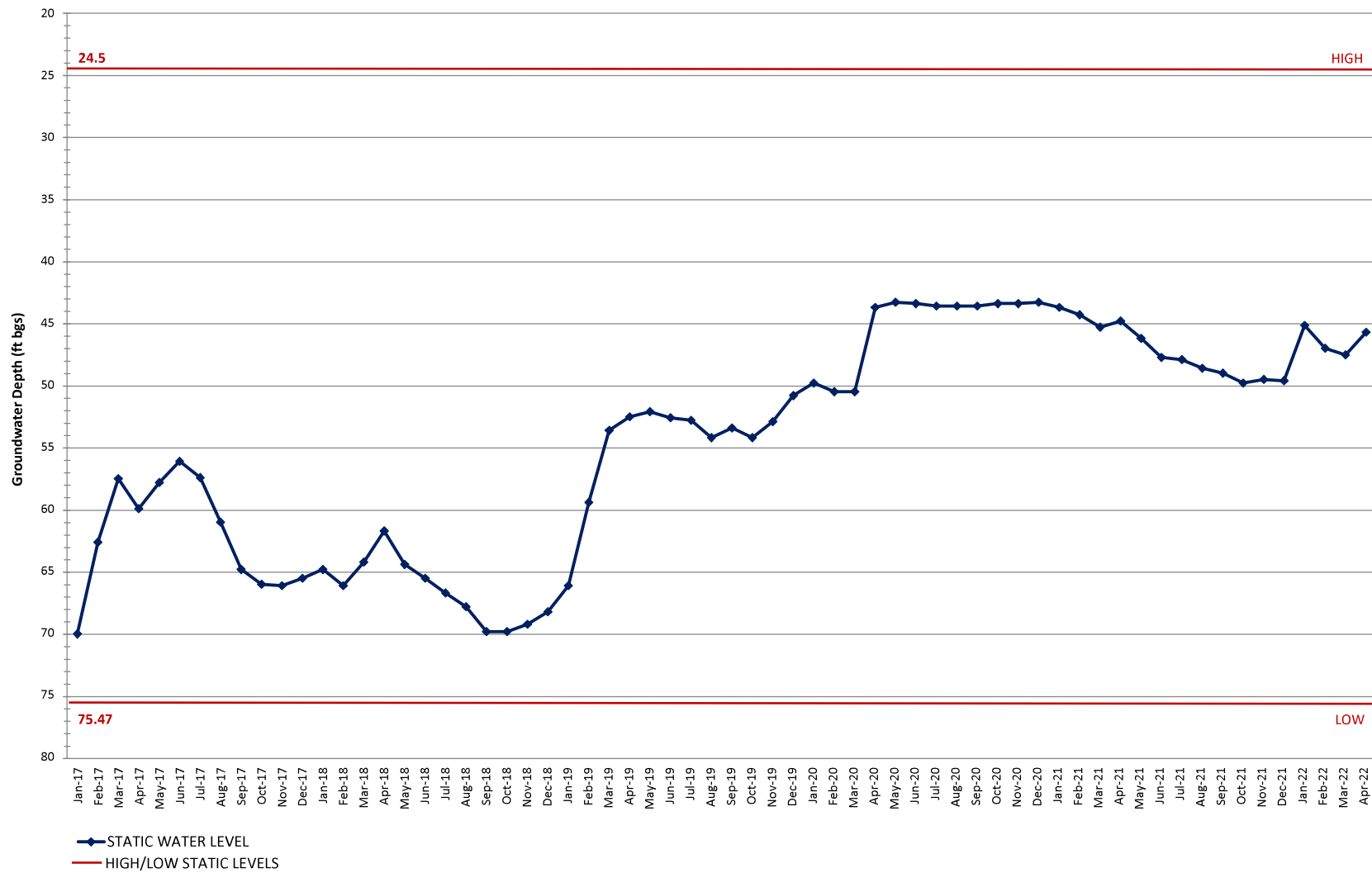
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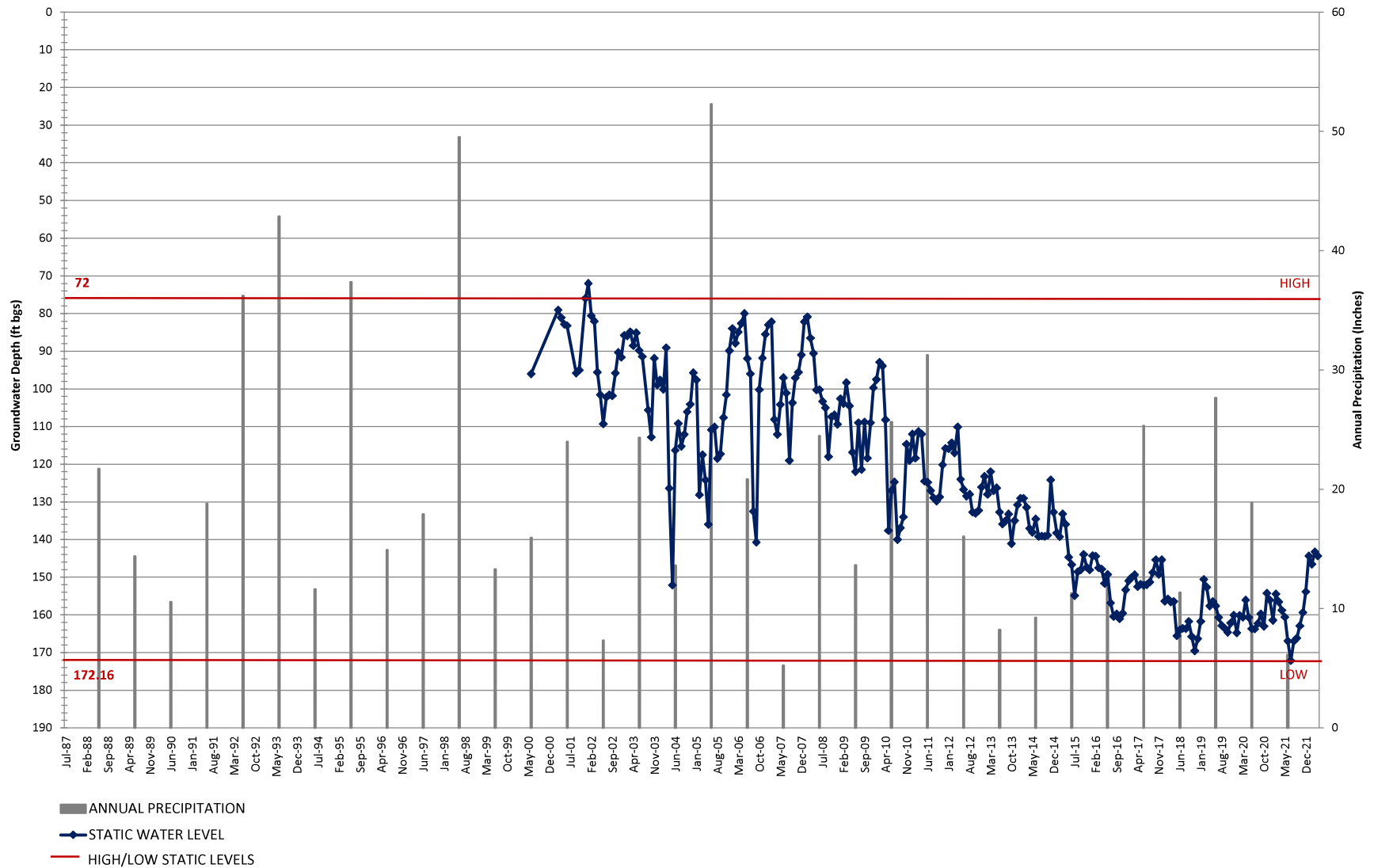
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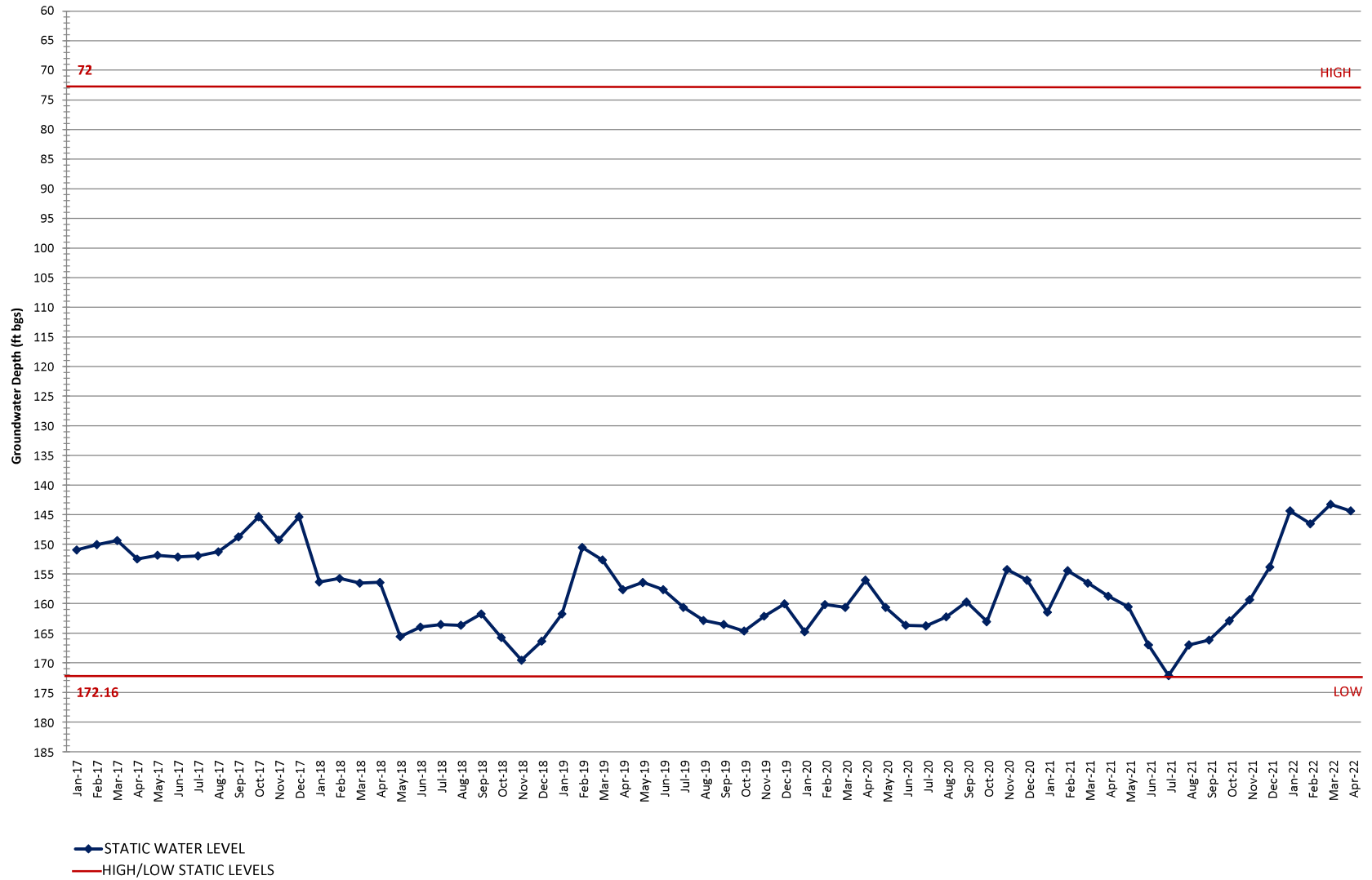
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 STATIC WATER LEVEL



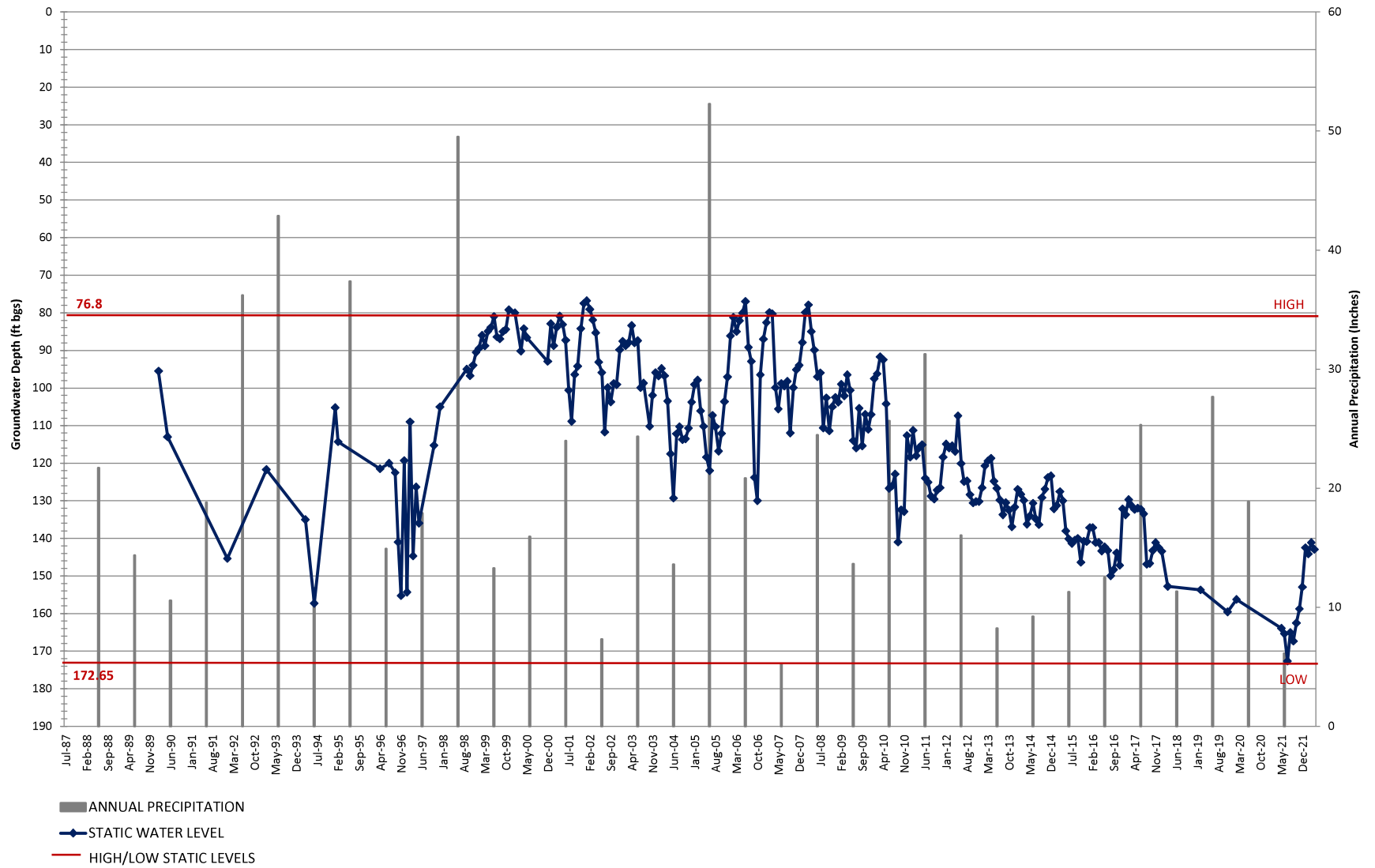
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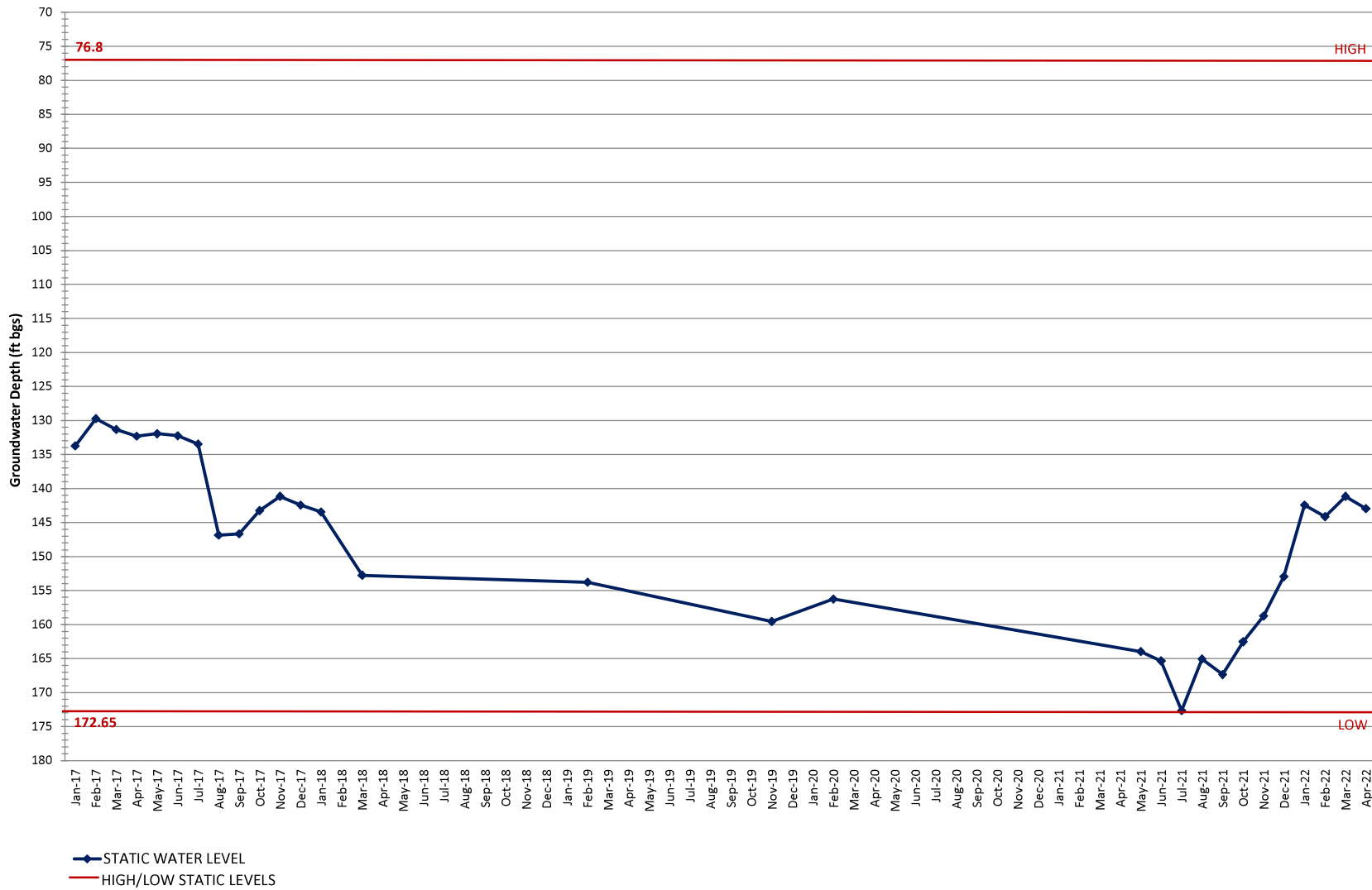
SCV WATER WELL 205
 STATIC WATER LEVEL



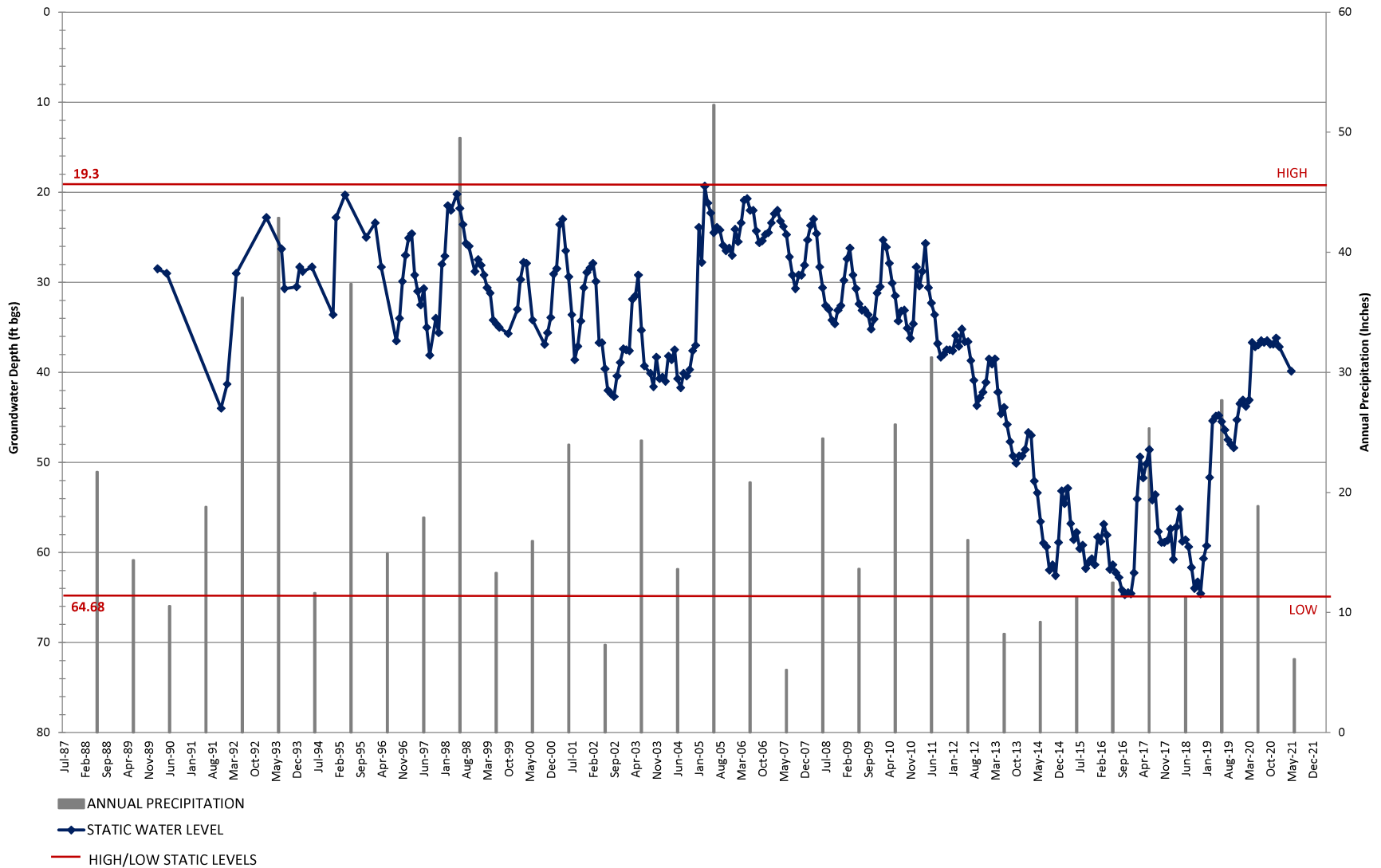
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 STATIC WATER LEVEL VS PRECIPITATION



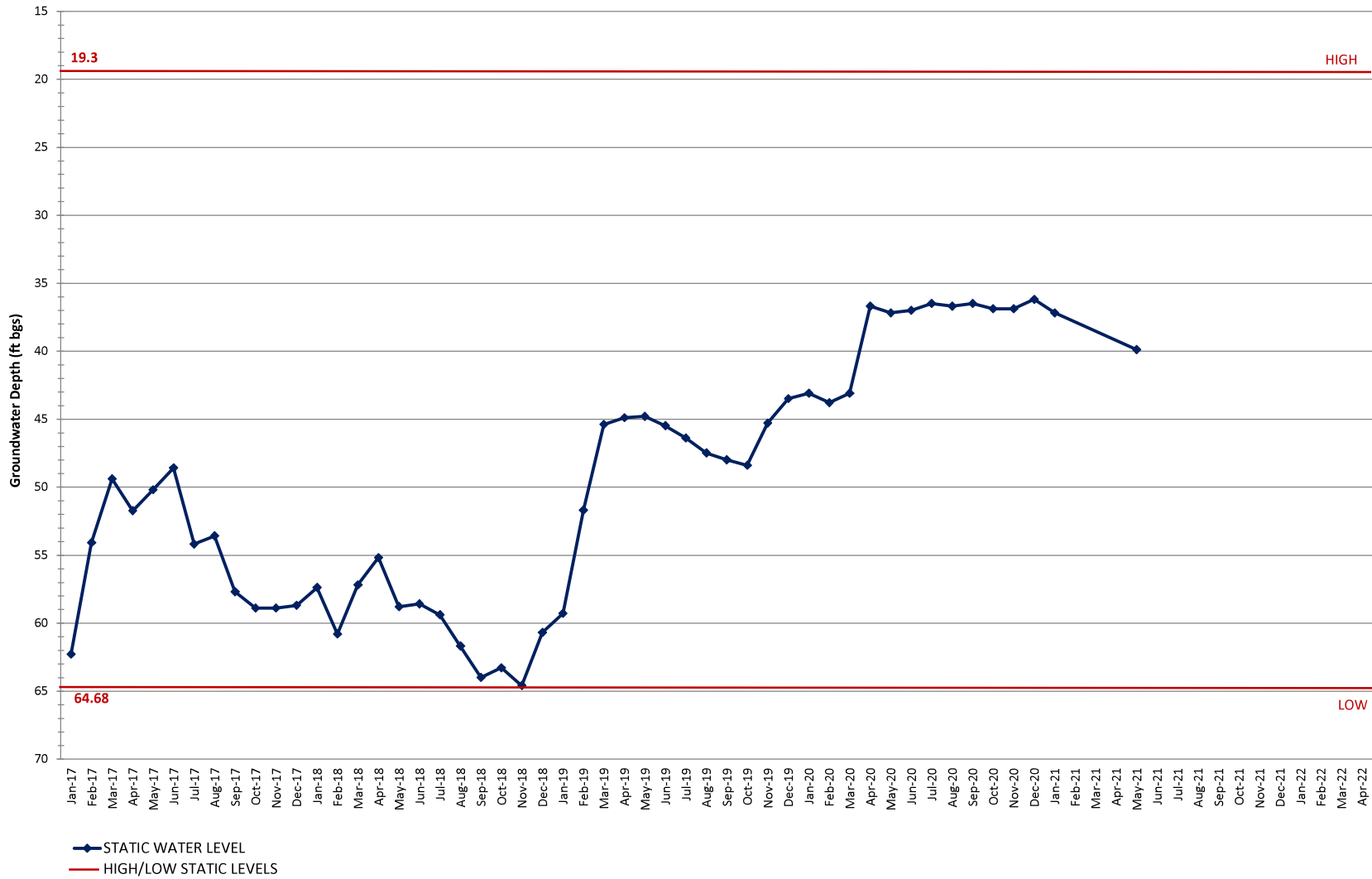
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 STATIC WATER LEVEL



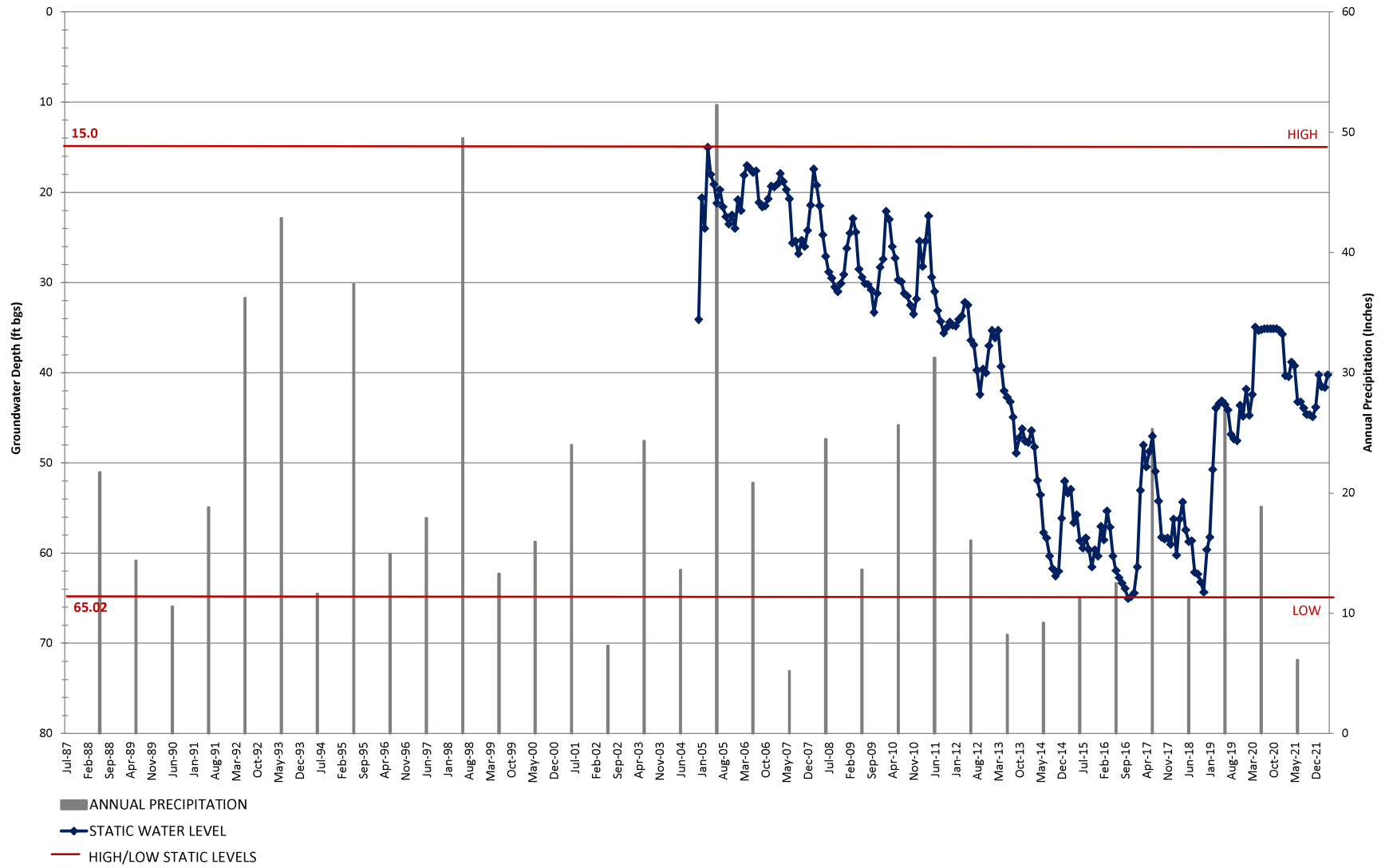
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 STATIC WATER LEVEL VS PRECIPITATION



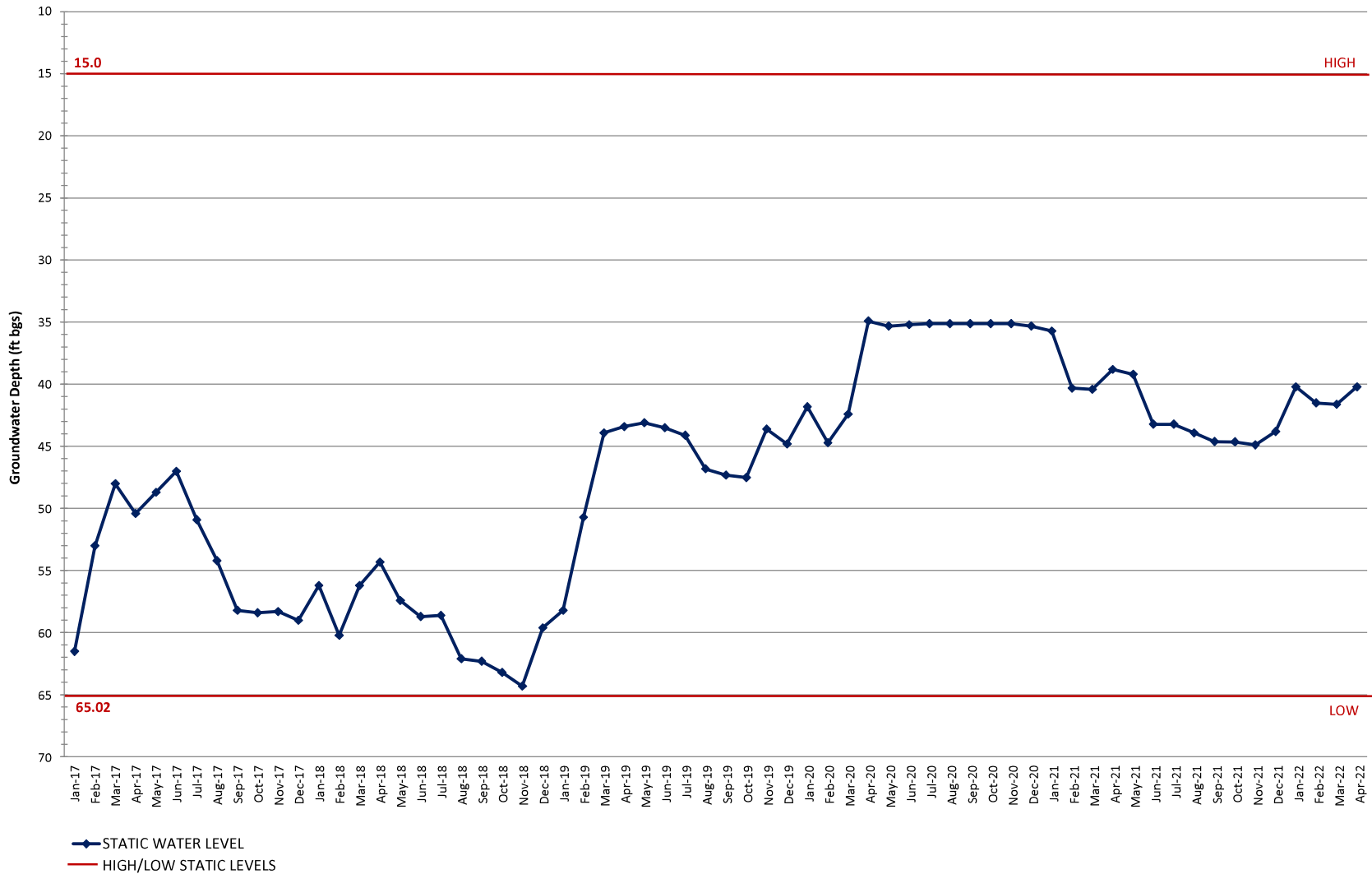
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STATIC WATER LEVEL



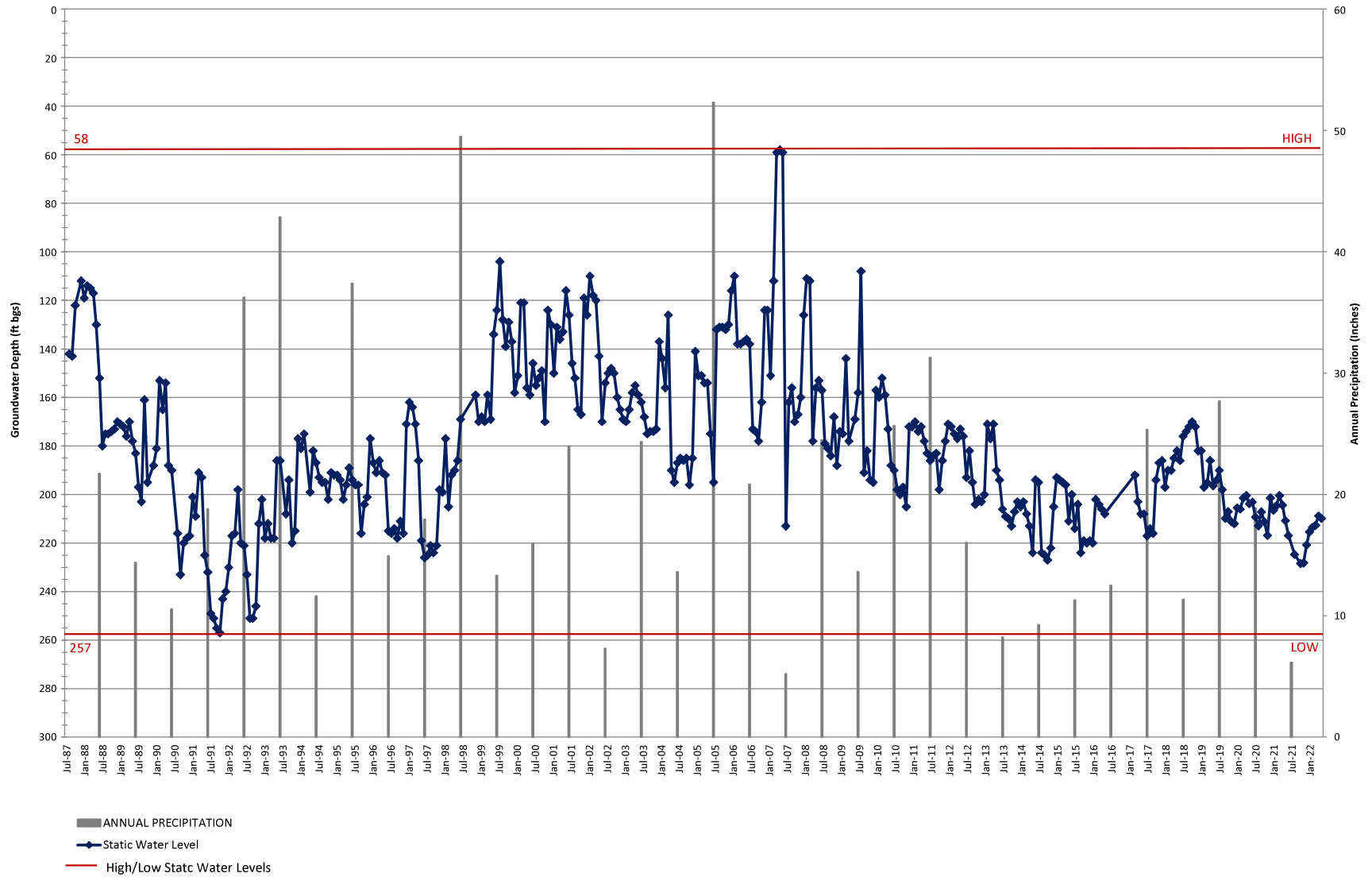
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 STATIC WATER LEVEL VS PRECIPITATION



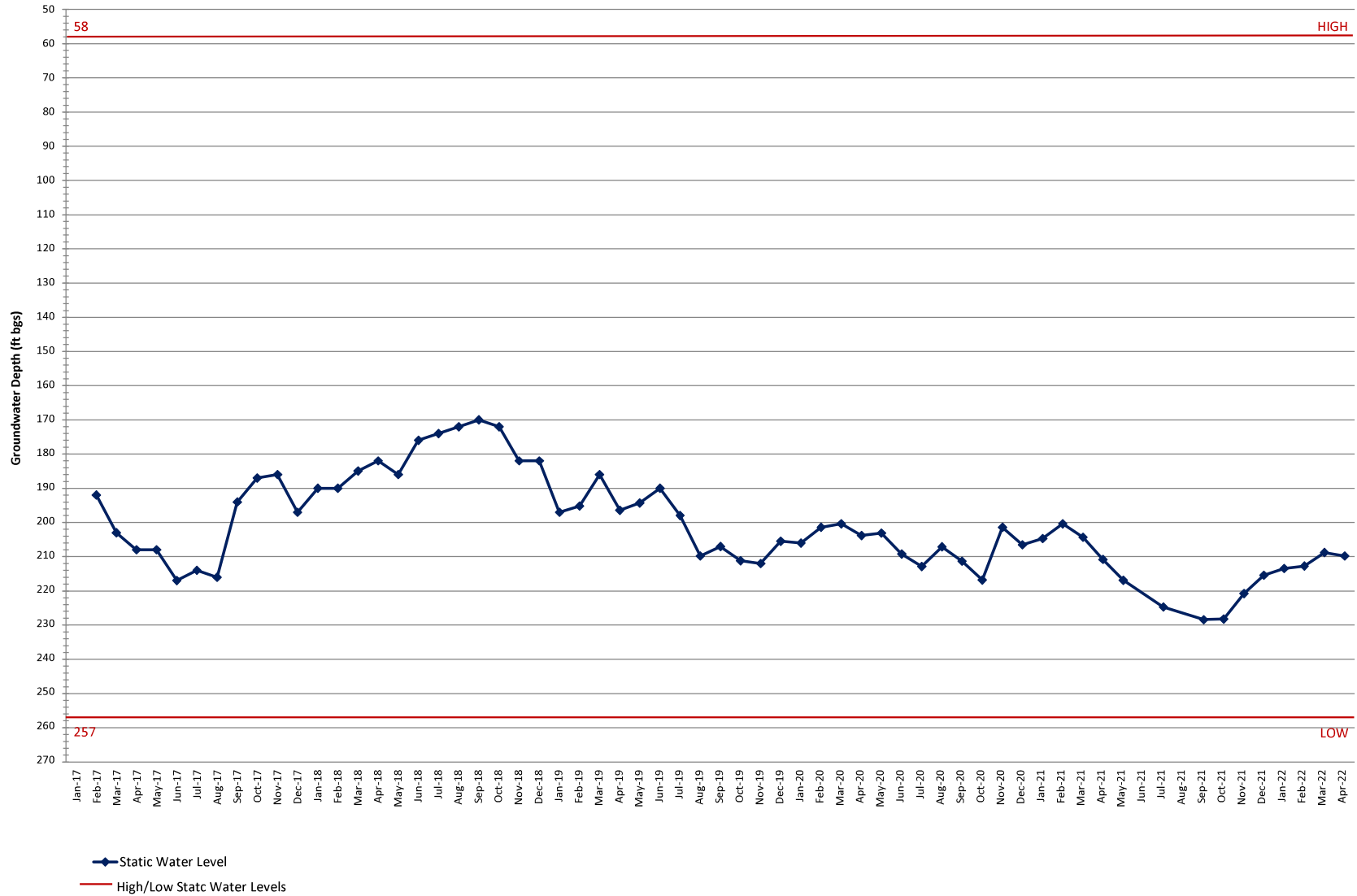
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STATIC WATER LEVEL



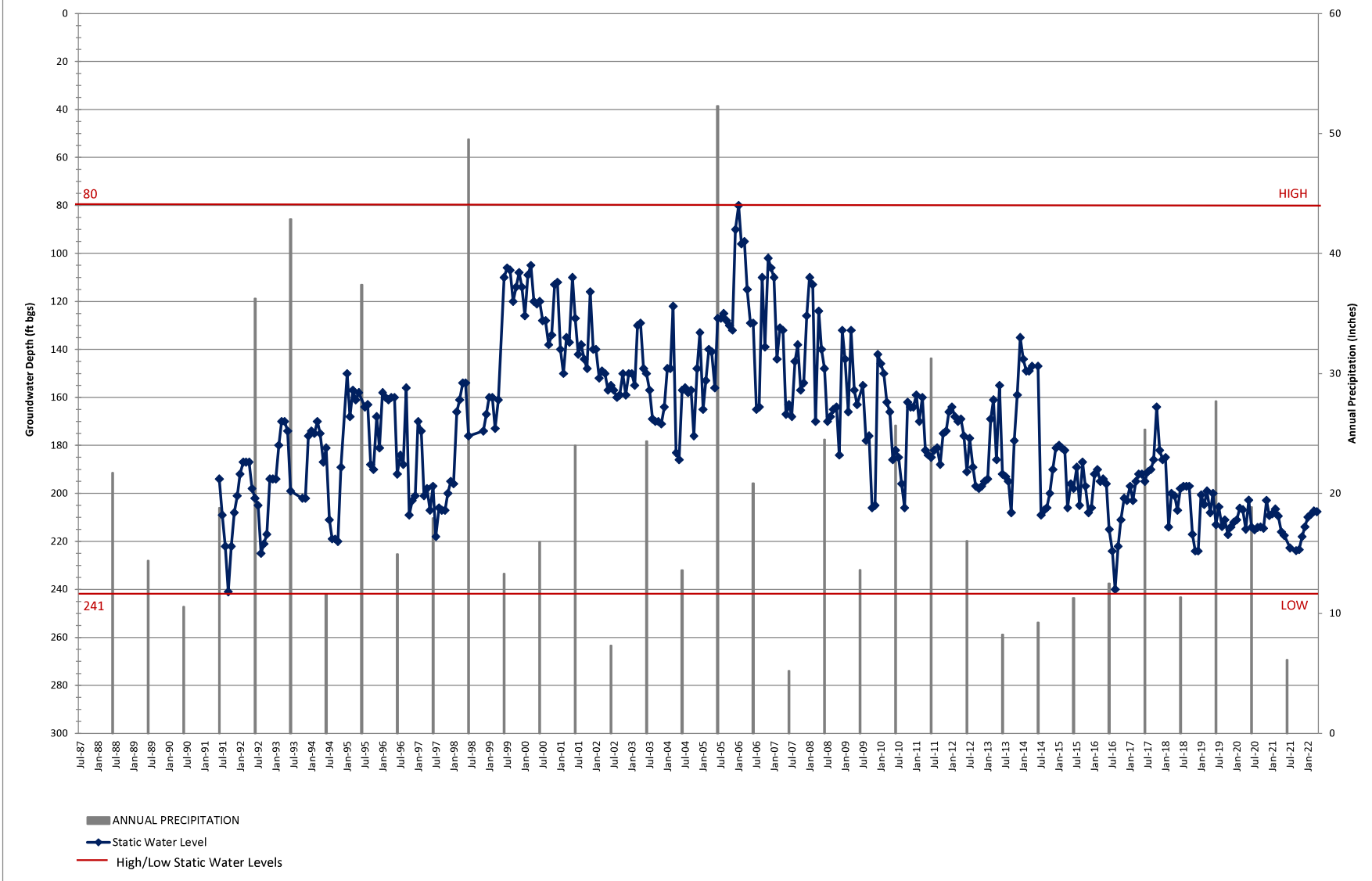
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STATIC WATER LEVEL VS PRECIPITATION



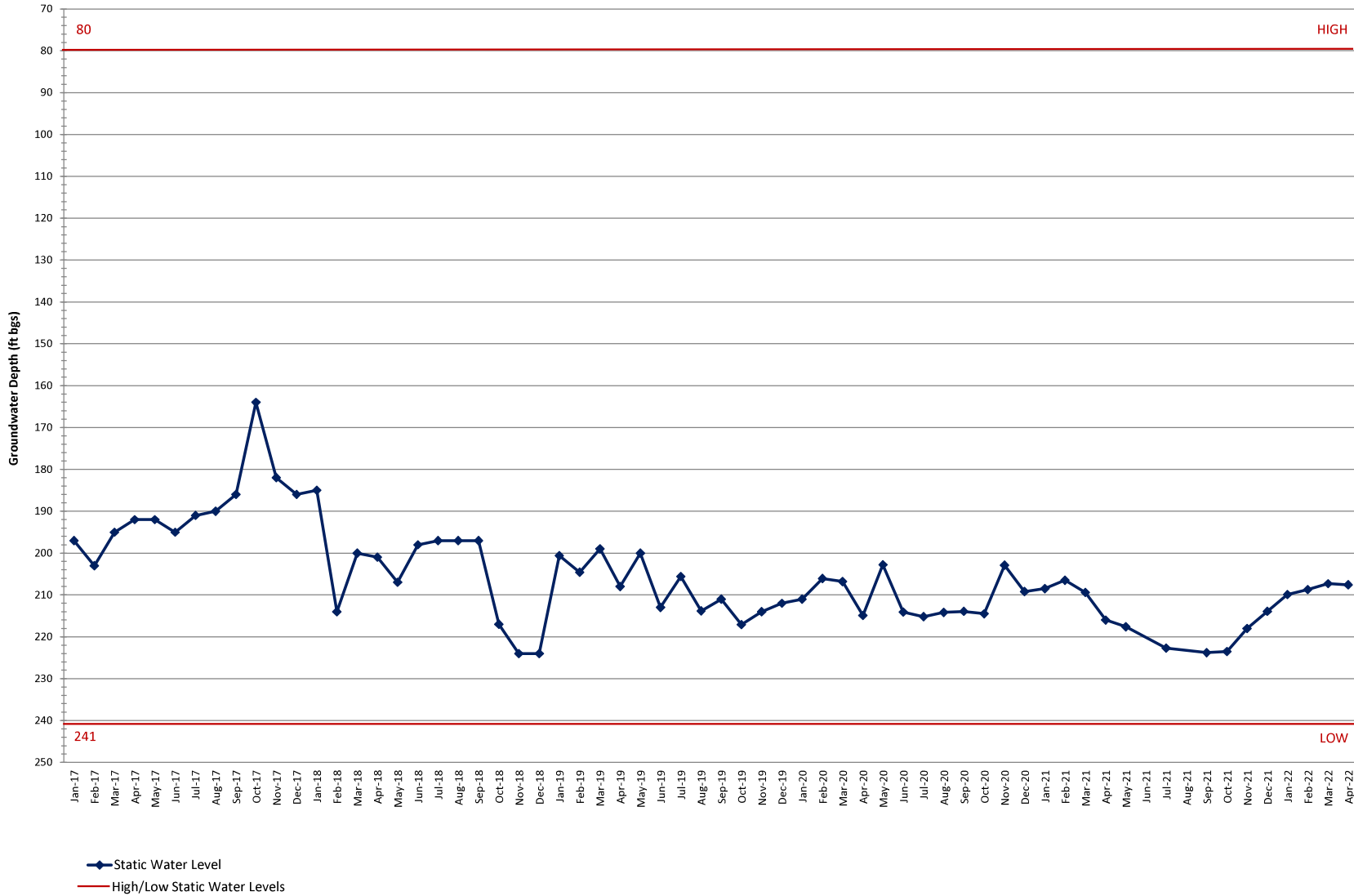
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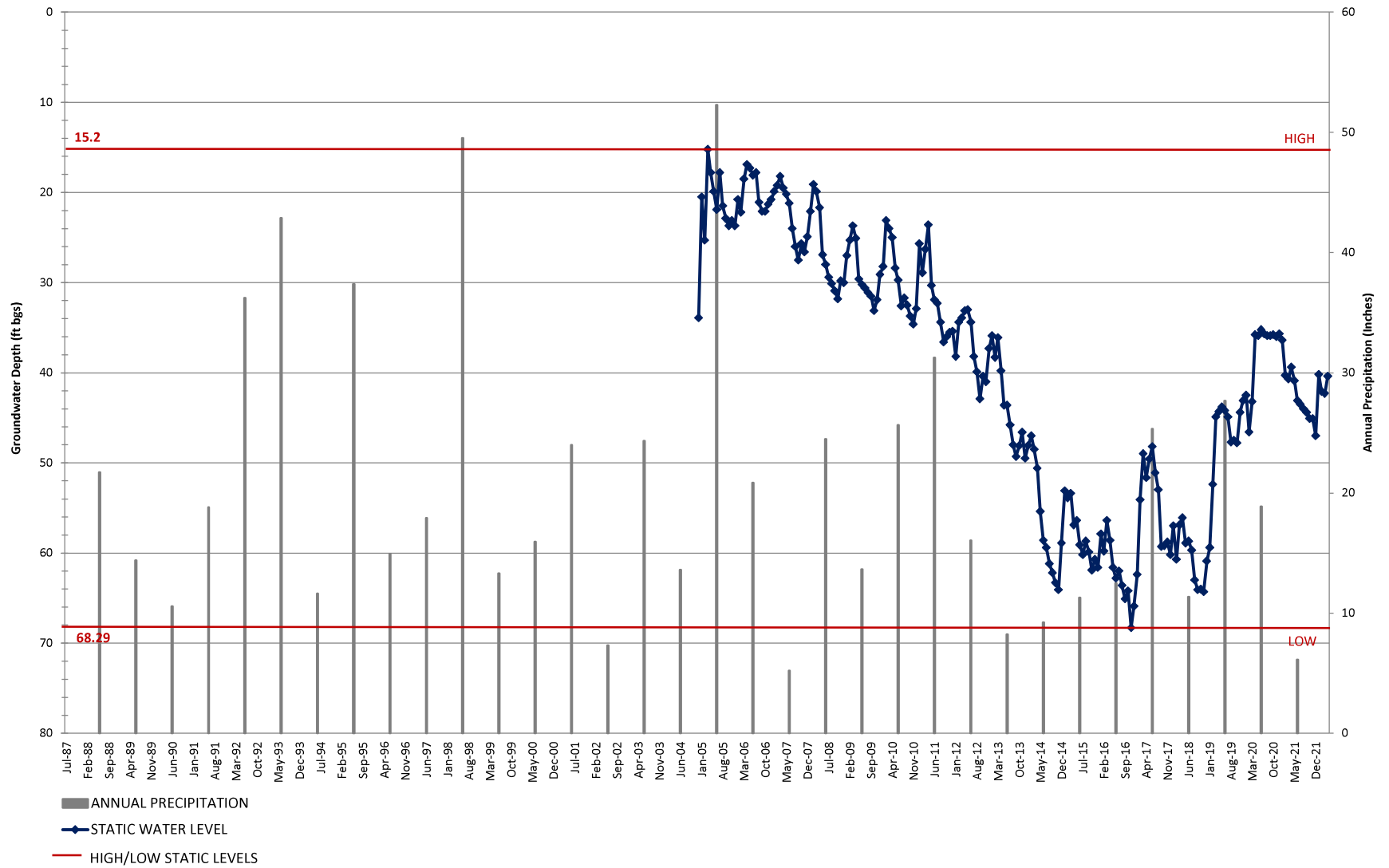
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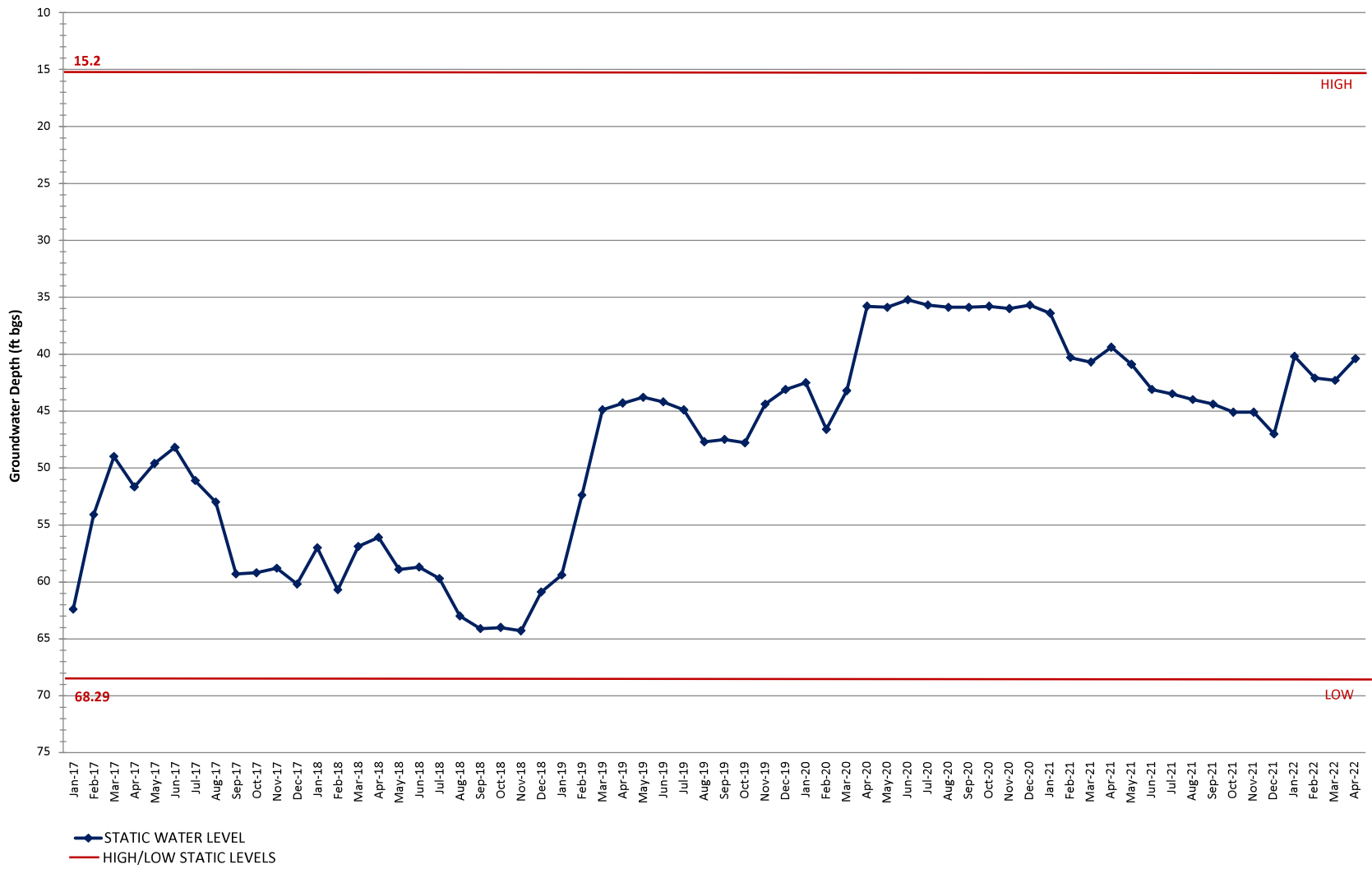
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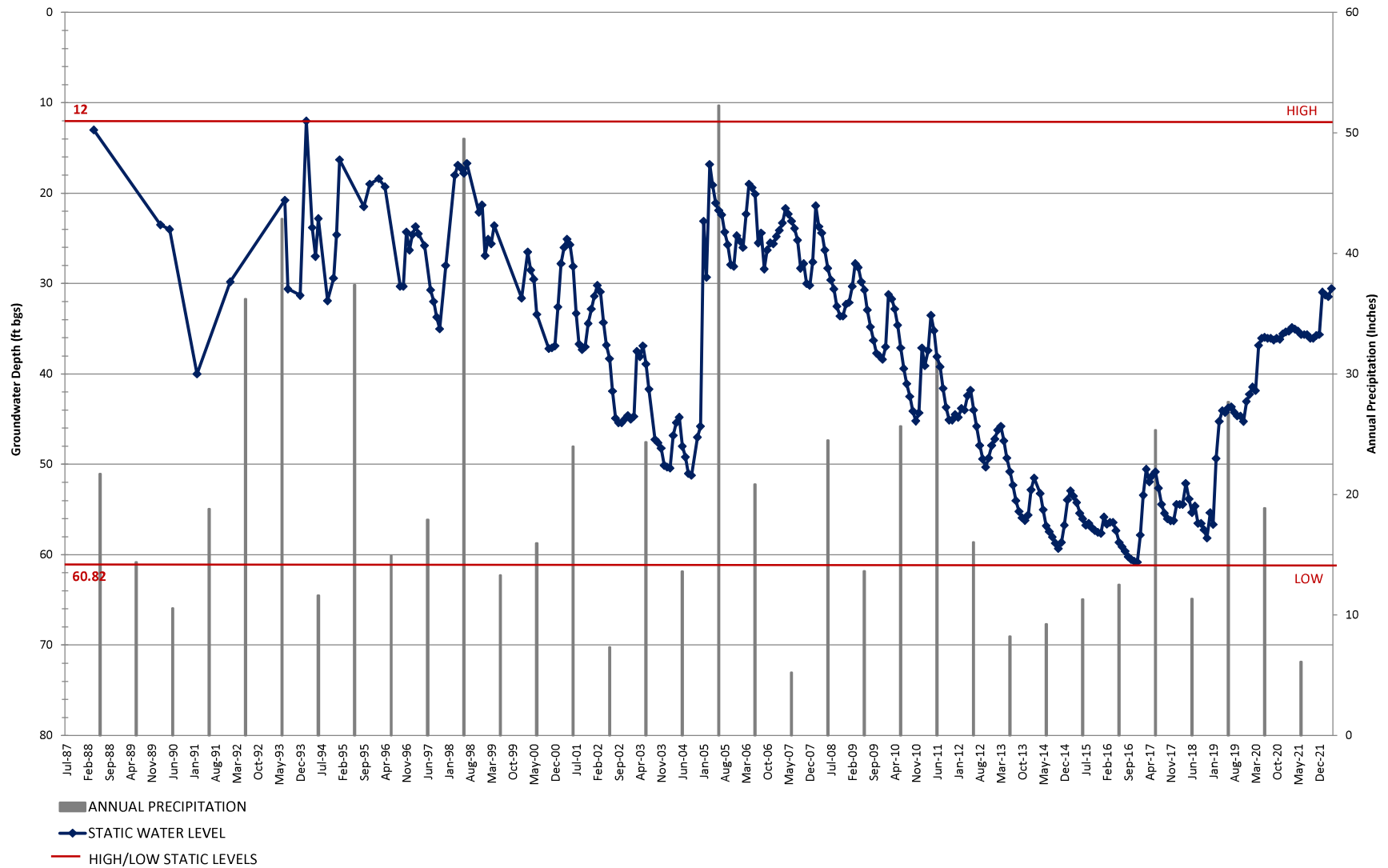
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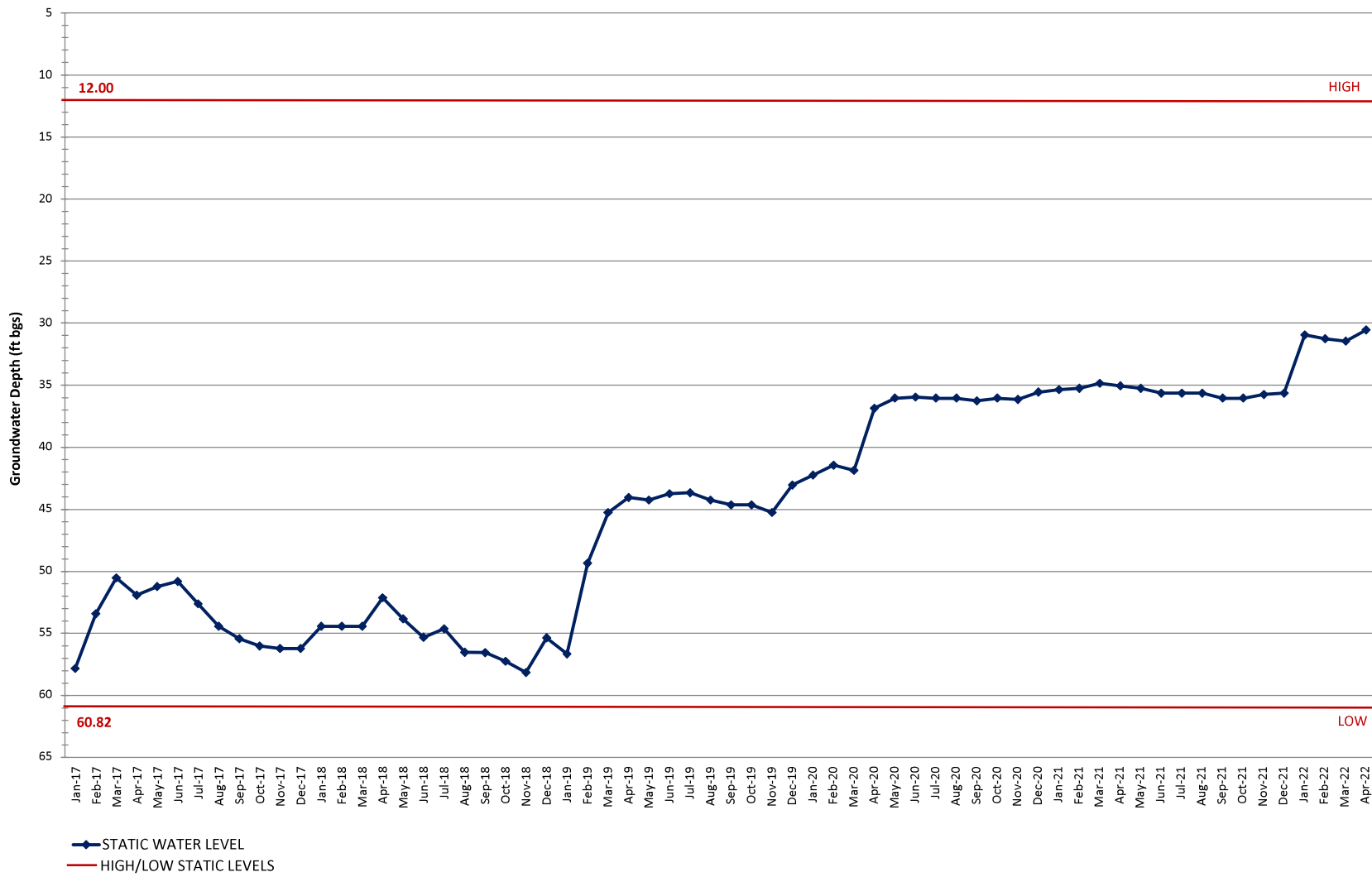
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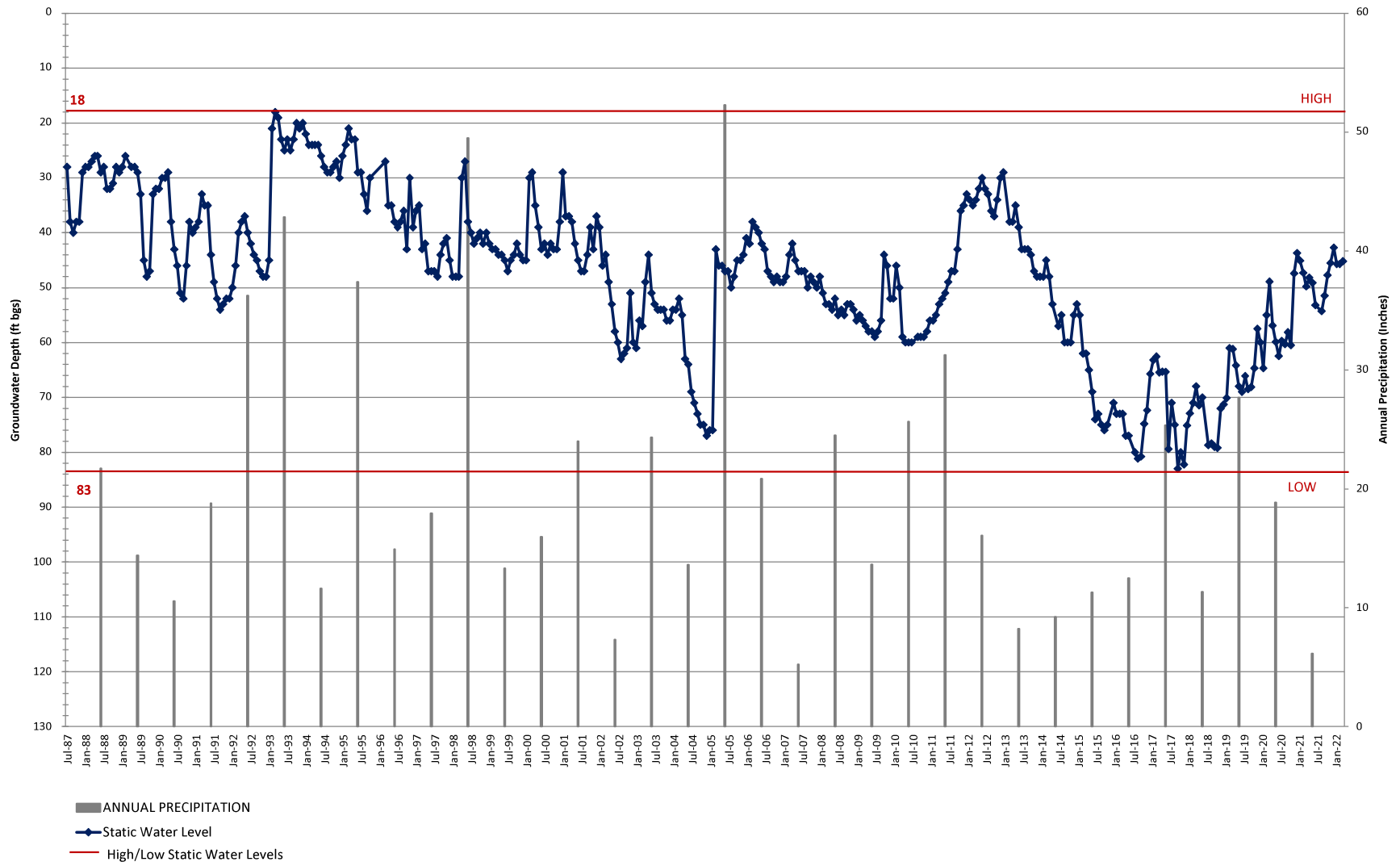
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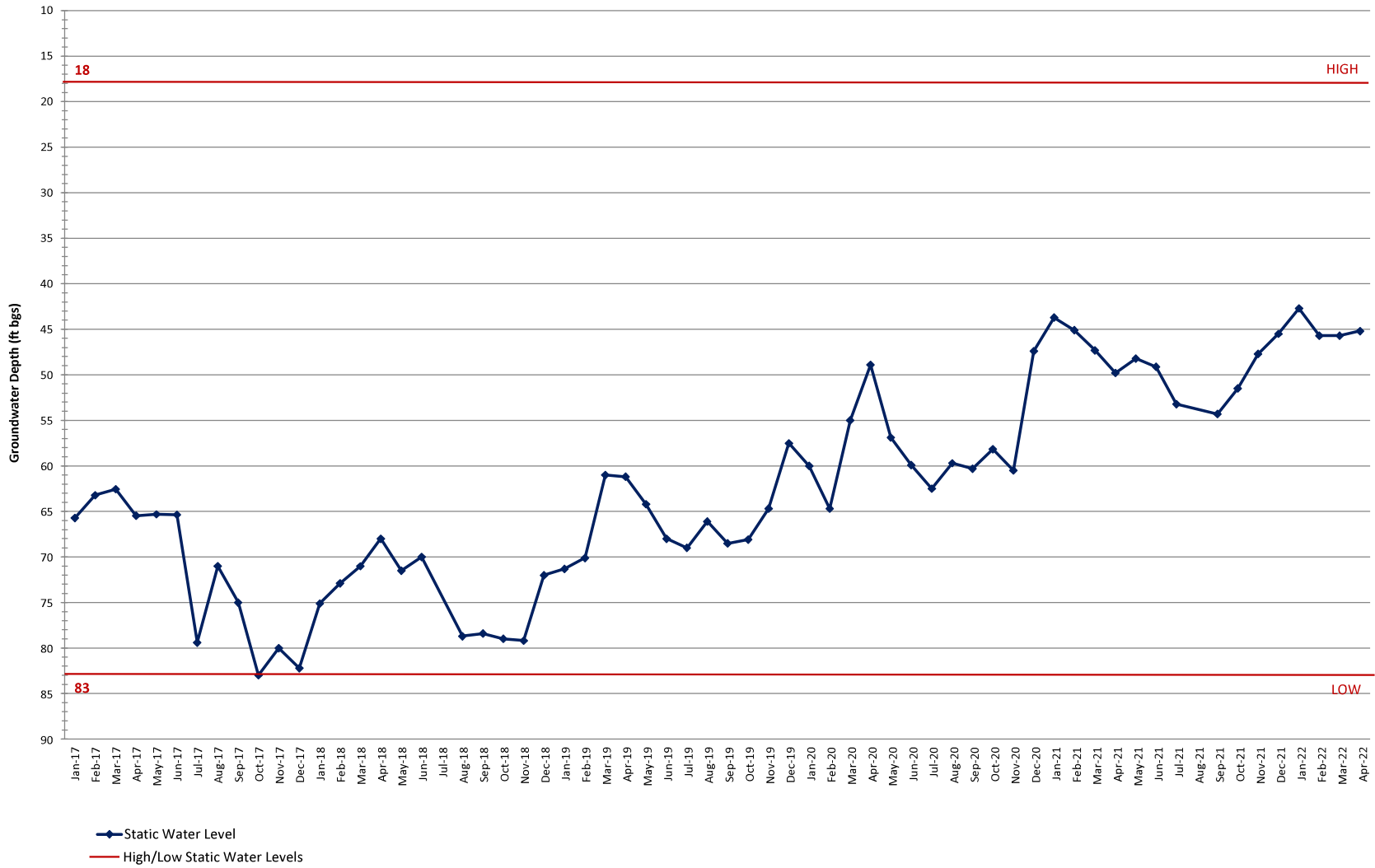
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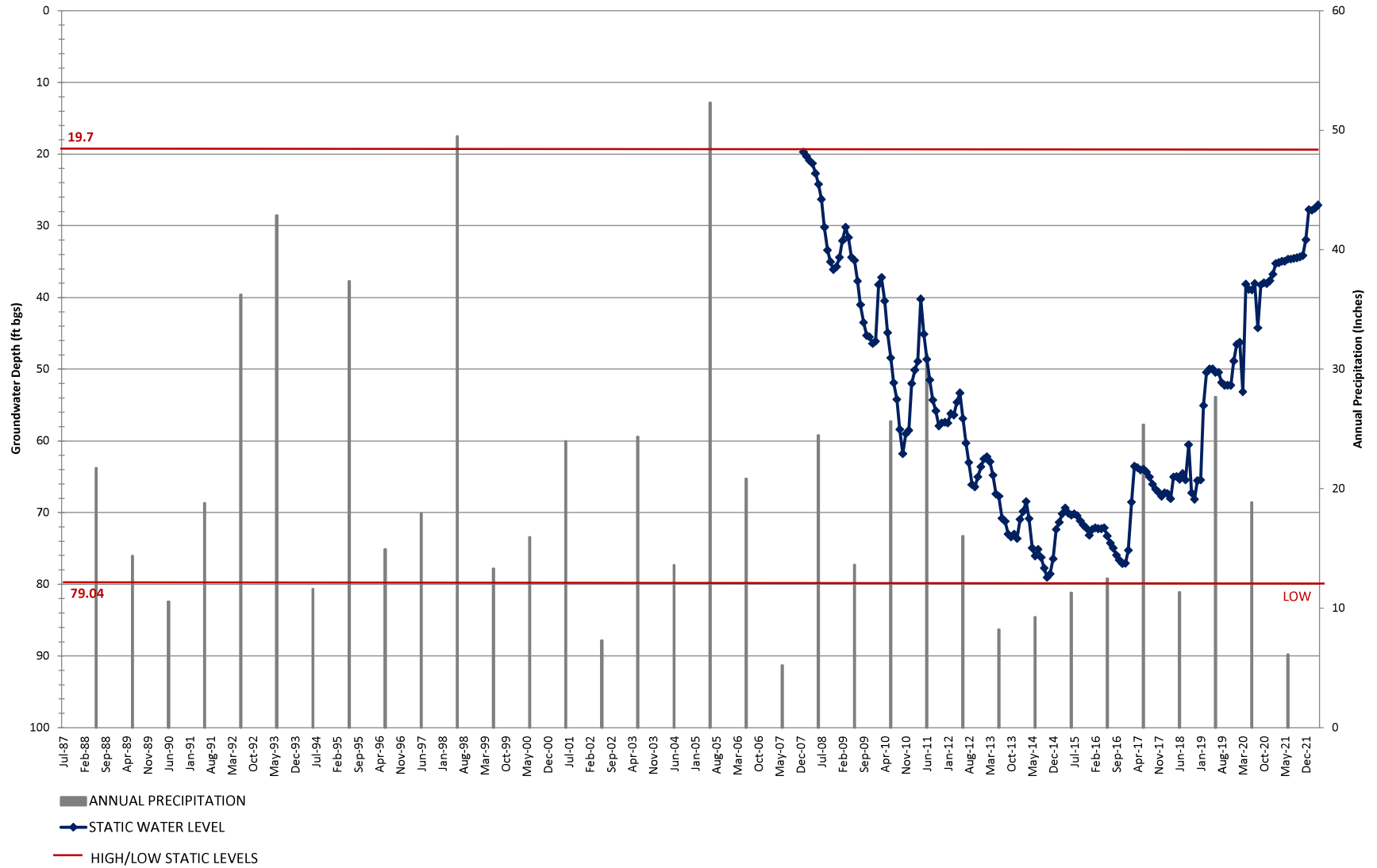
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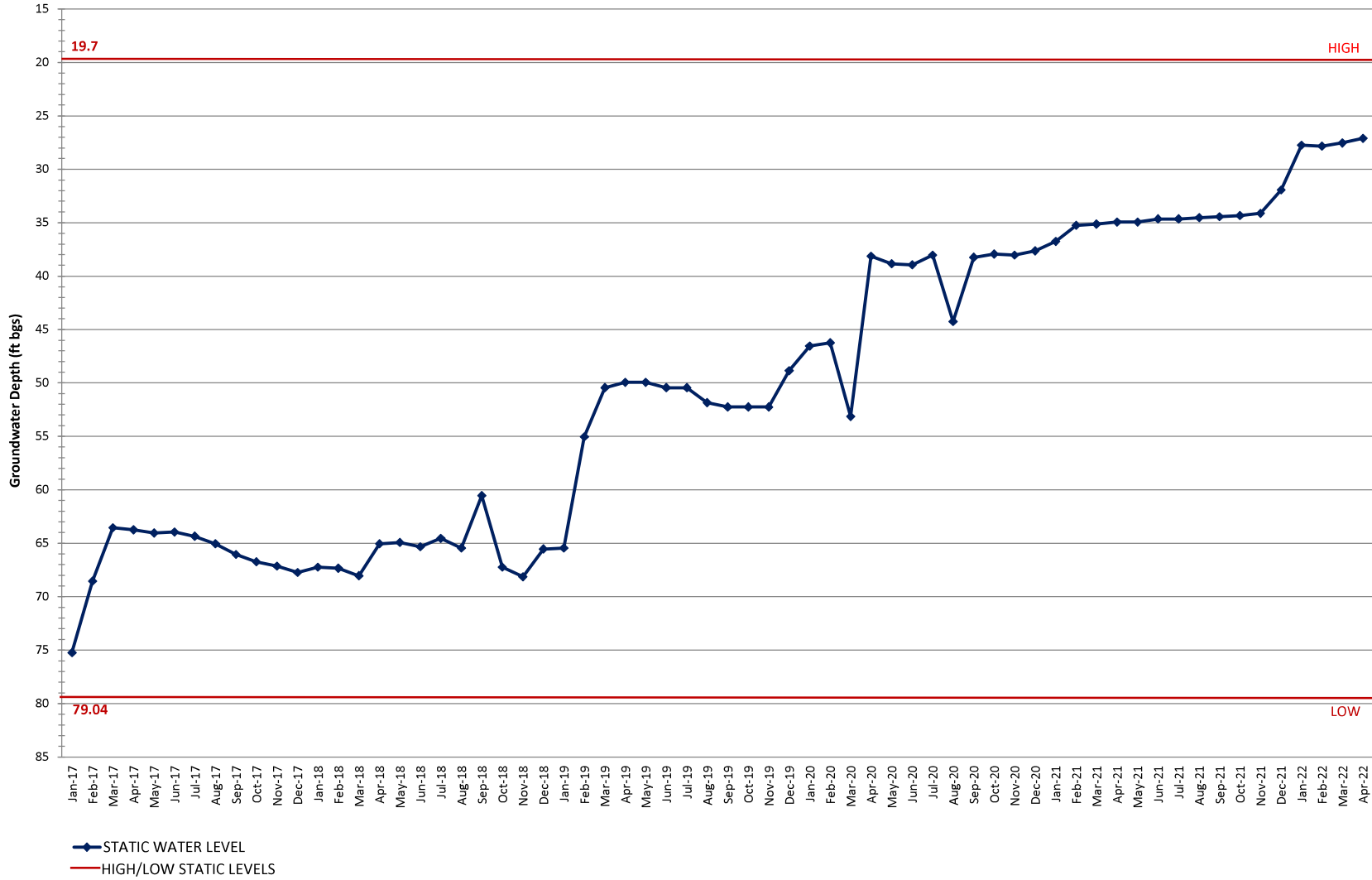
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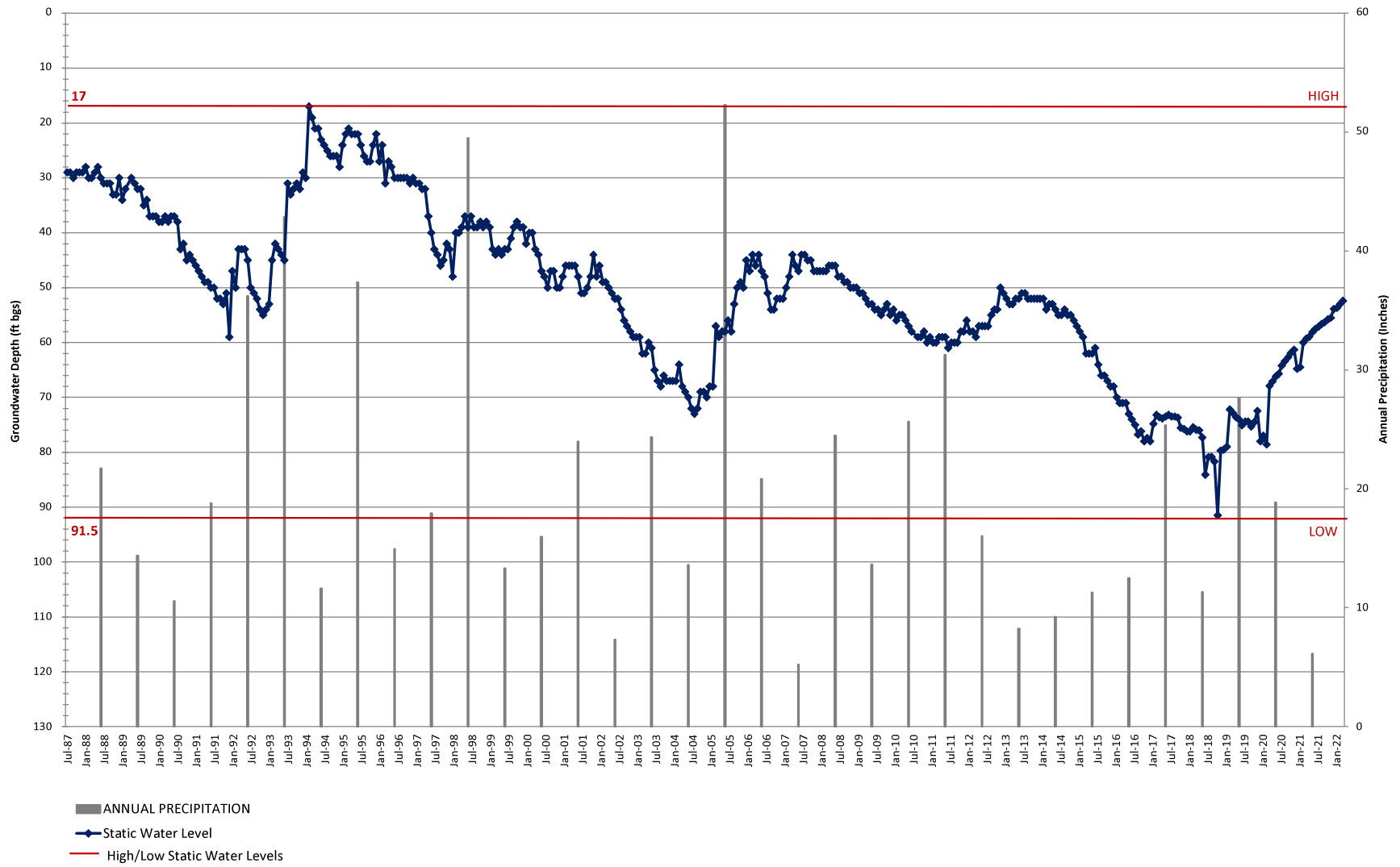
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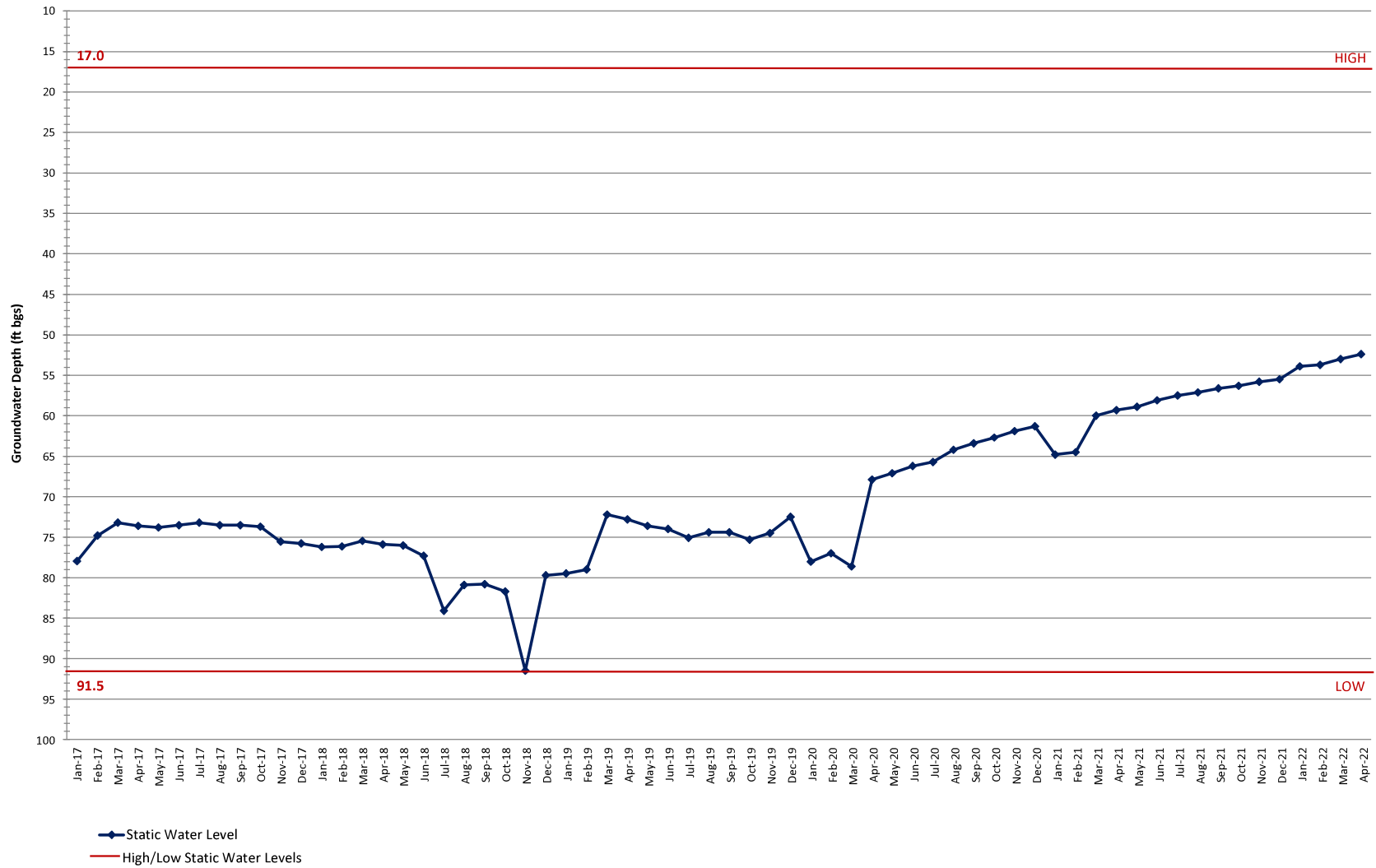
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STATIC WATER LEVEL



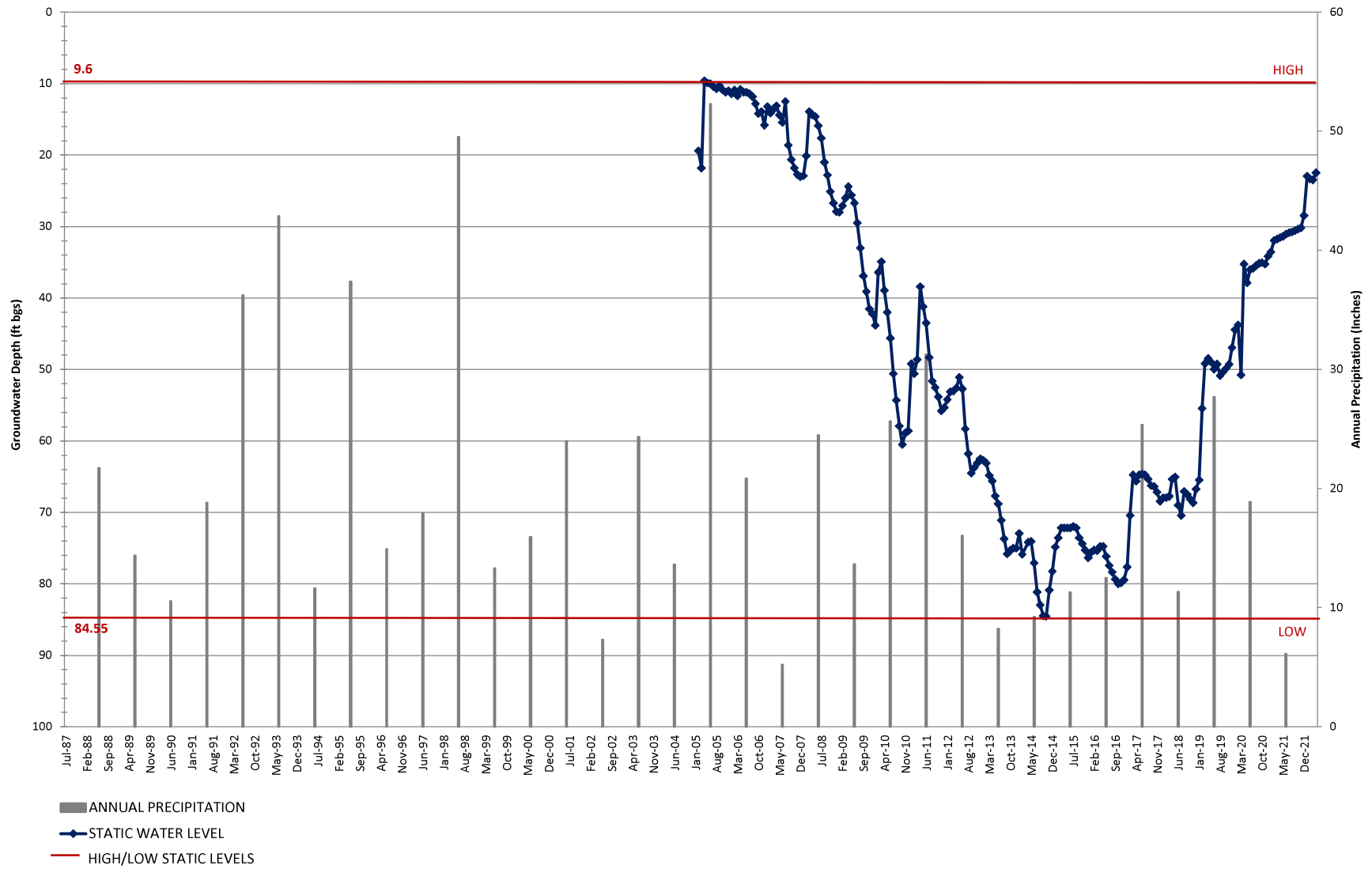
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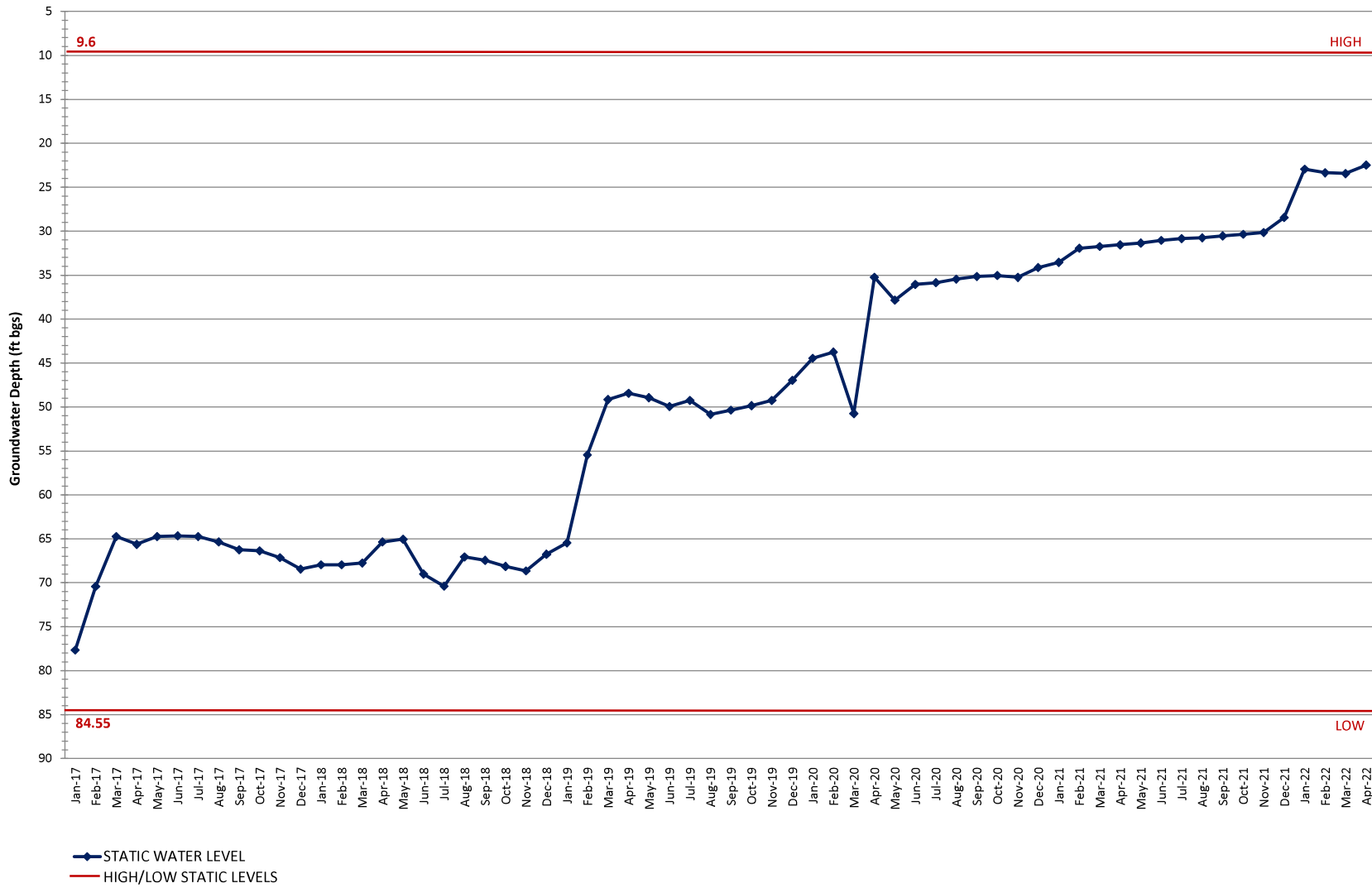
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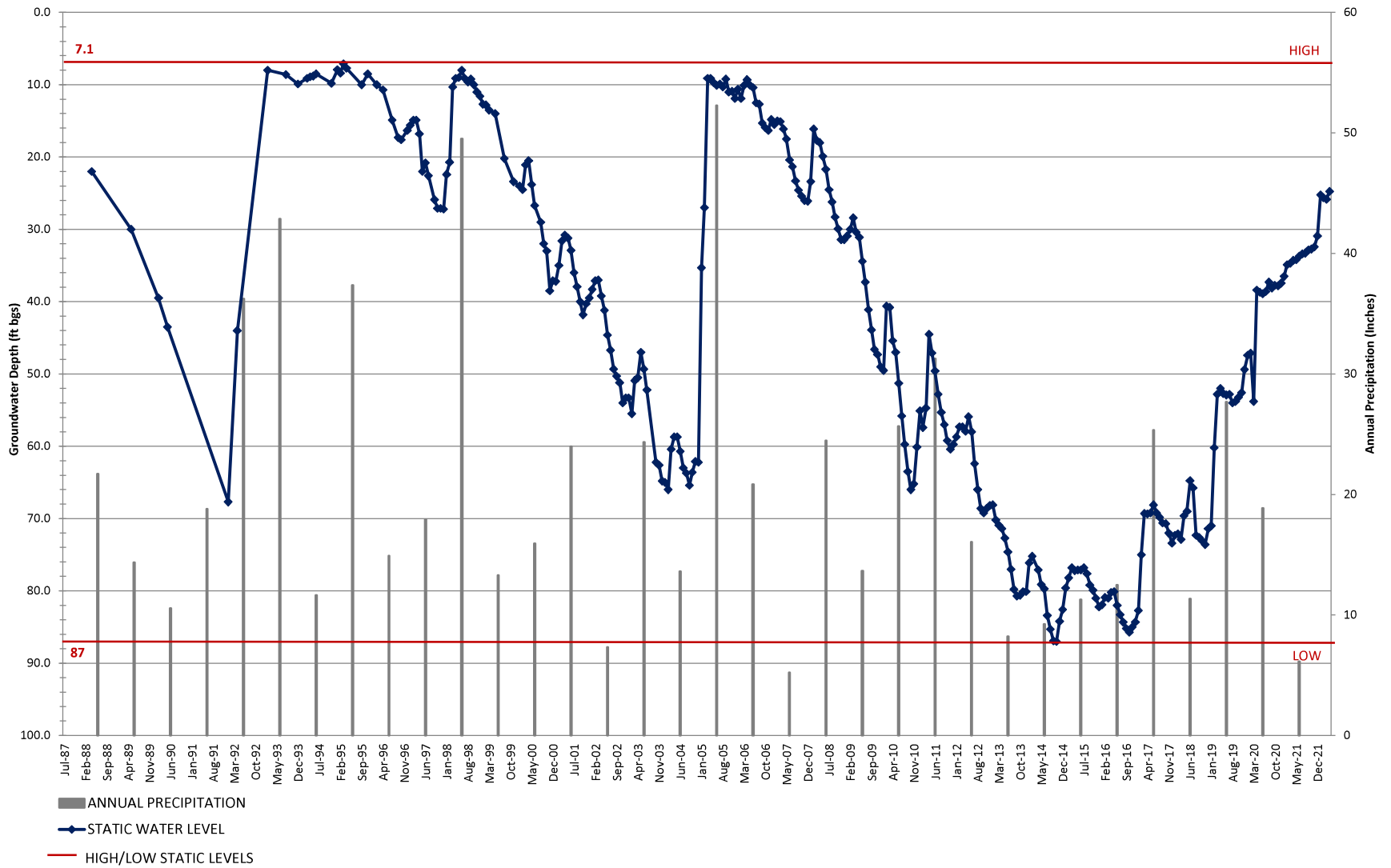
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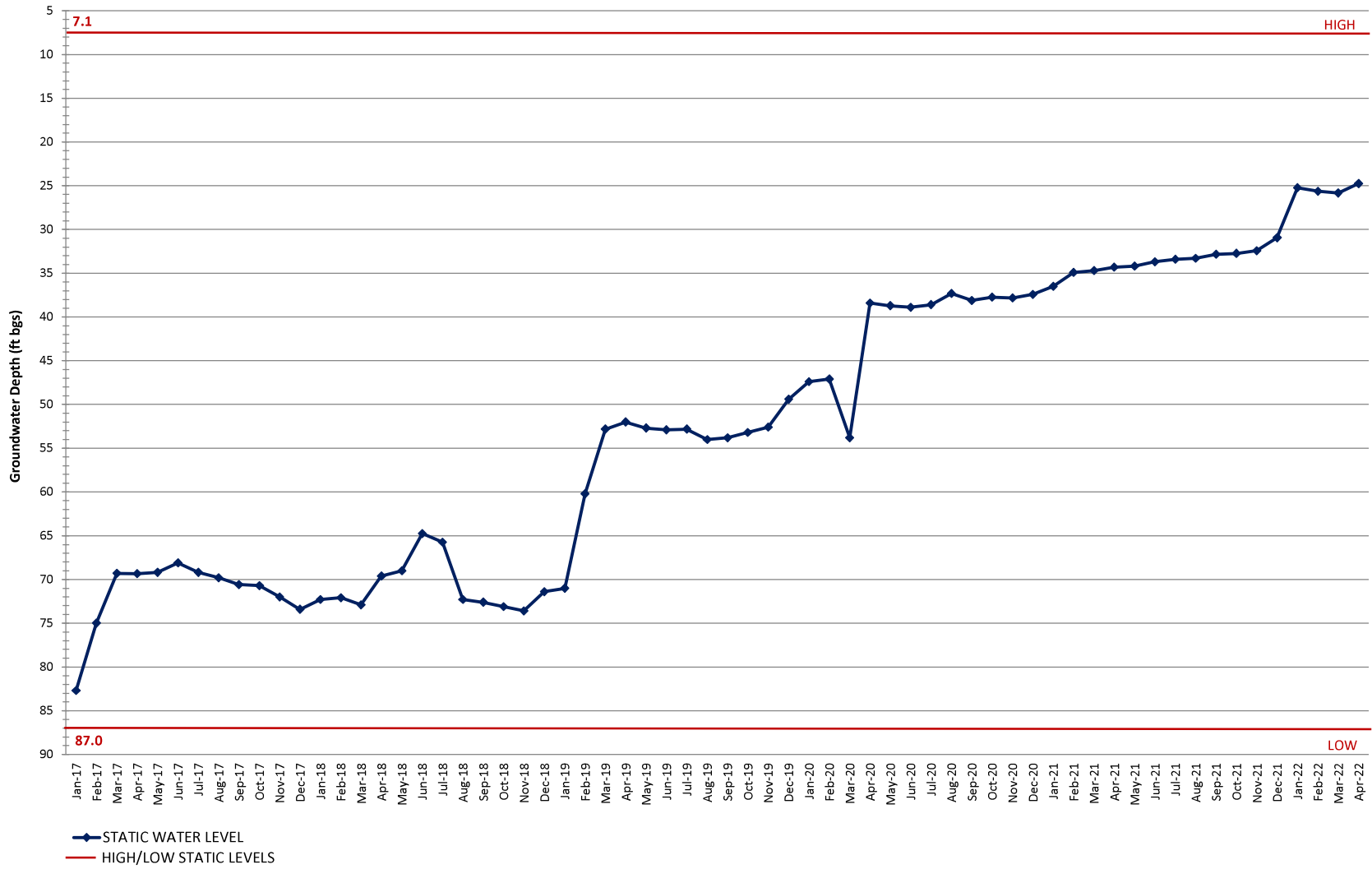
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SCV WATER WELL U4
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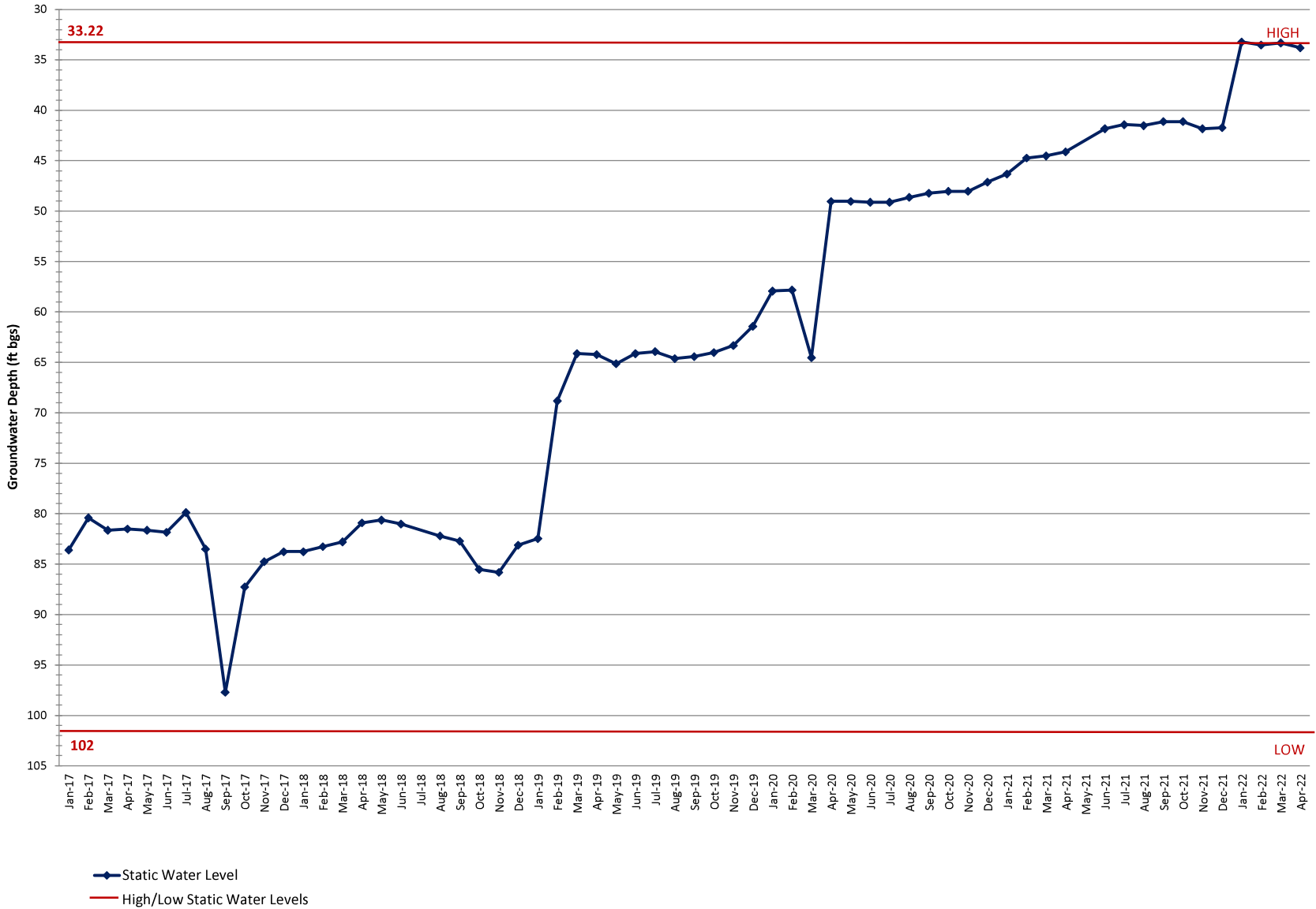
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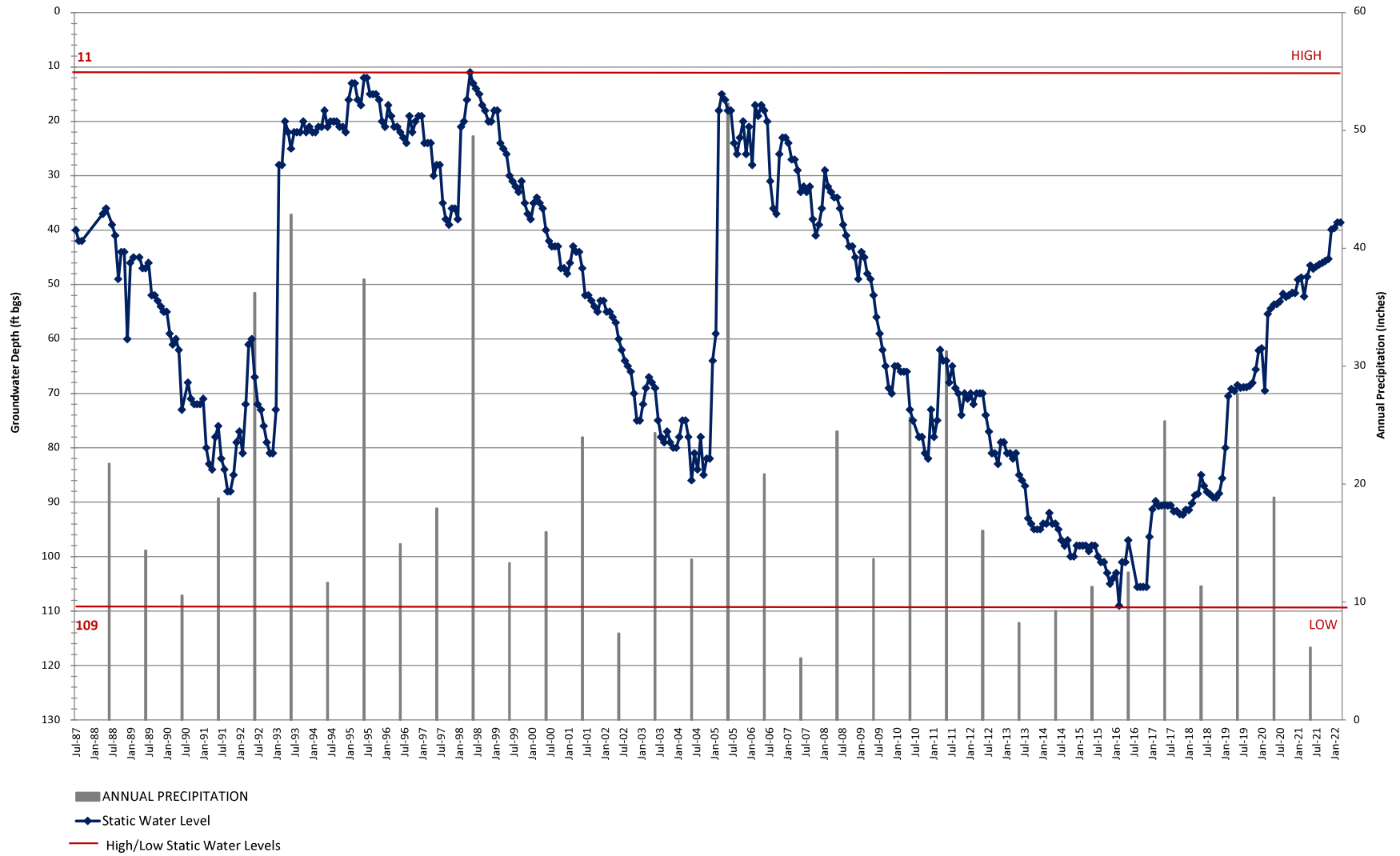
SCV WATER WELL VALLEY CENTER
STATIC WATER LEVEL VS PRECIPITATION



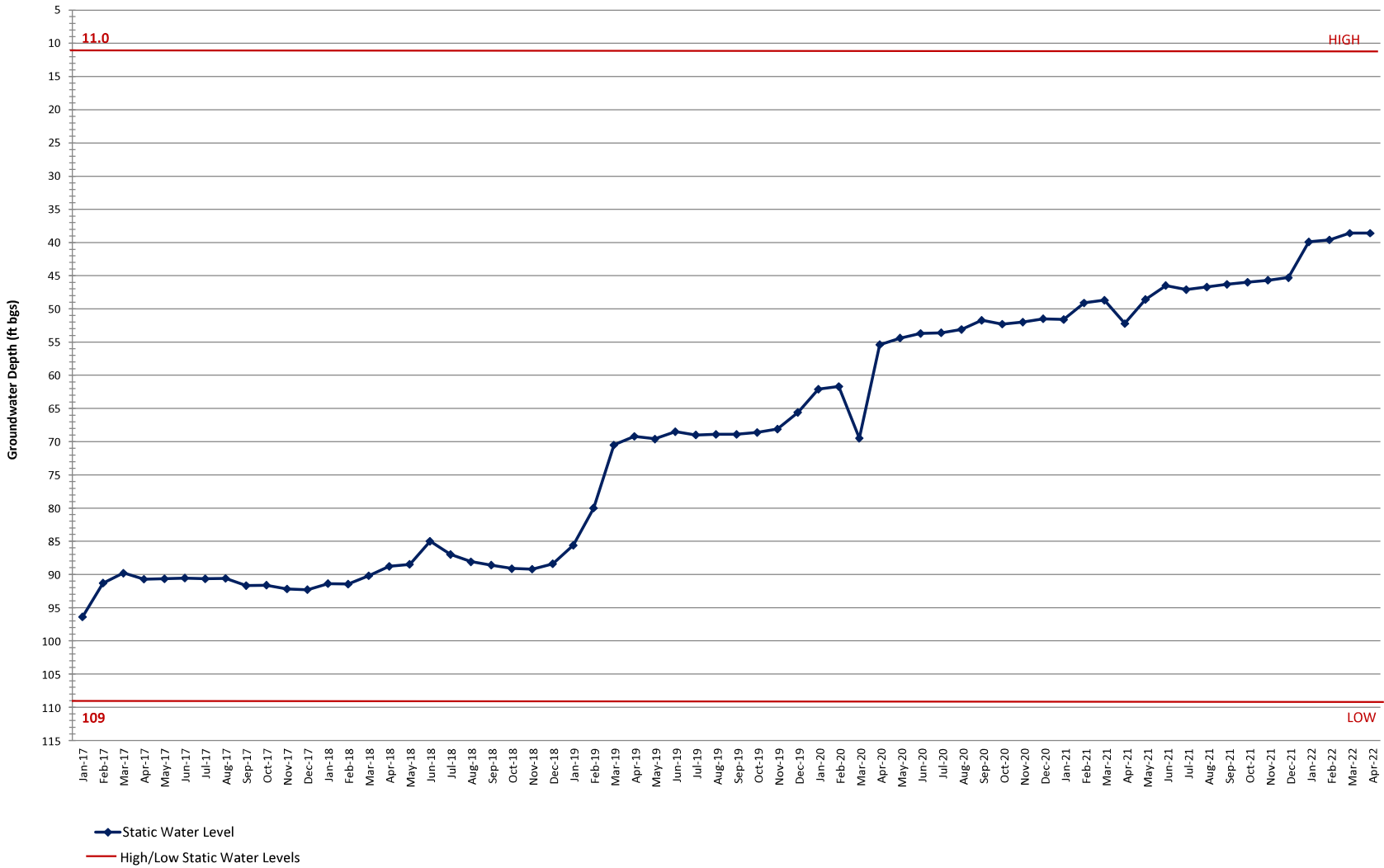
SCV WATER WELL VALLEY CENTER
 STATIC WATER LEVEL



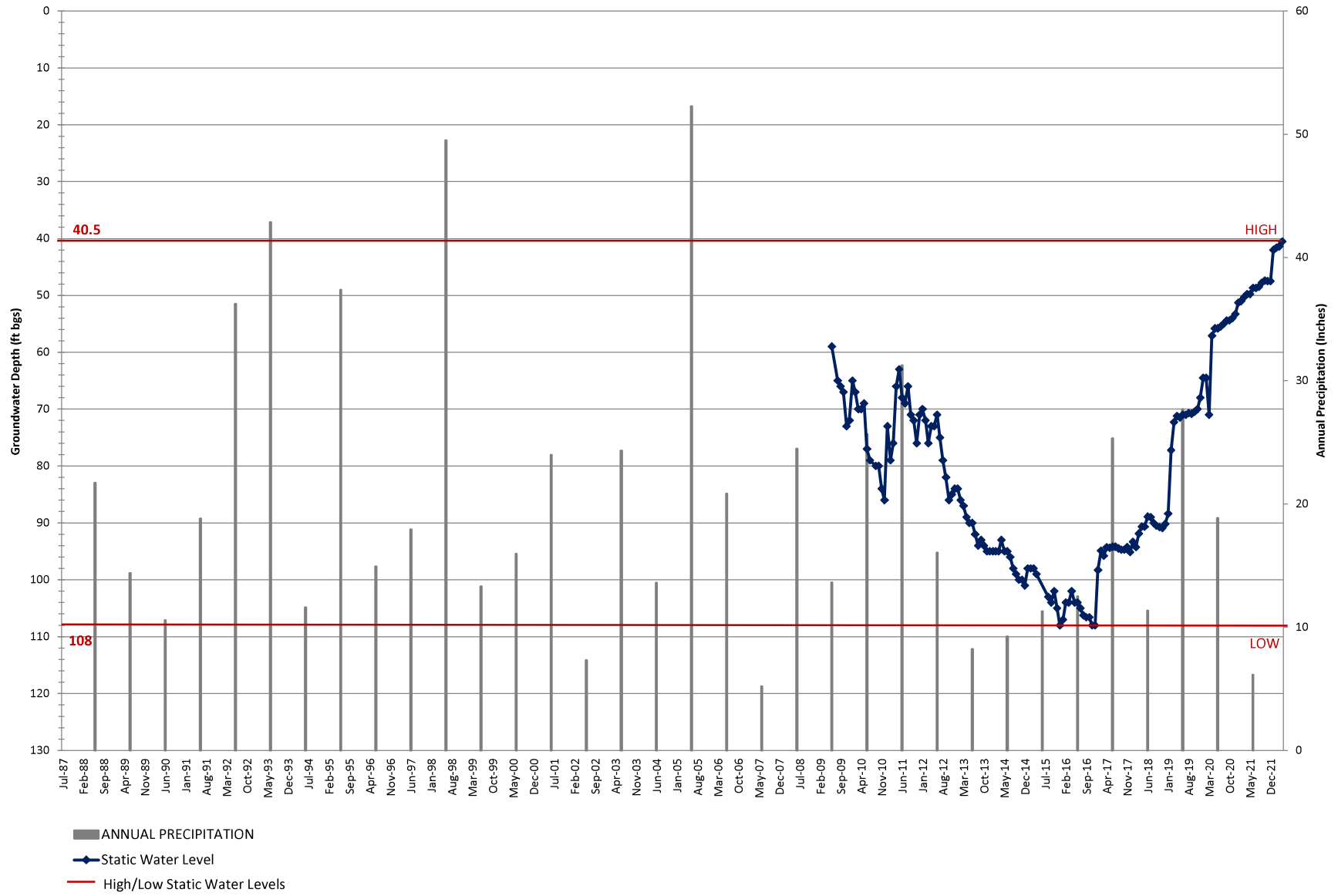
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STATIC WATER LEVEL VS PRECIPITATION



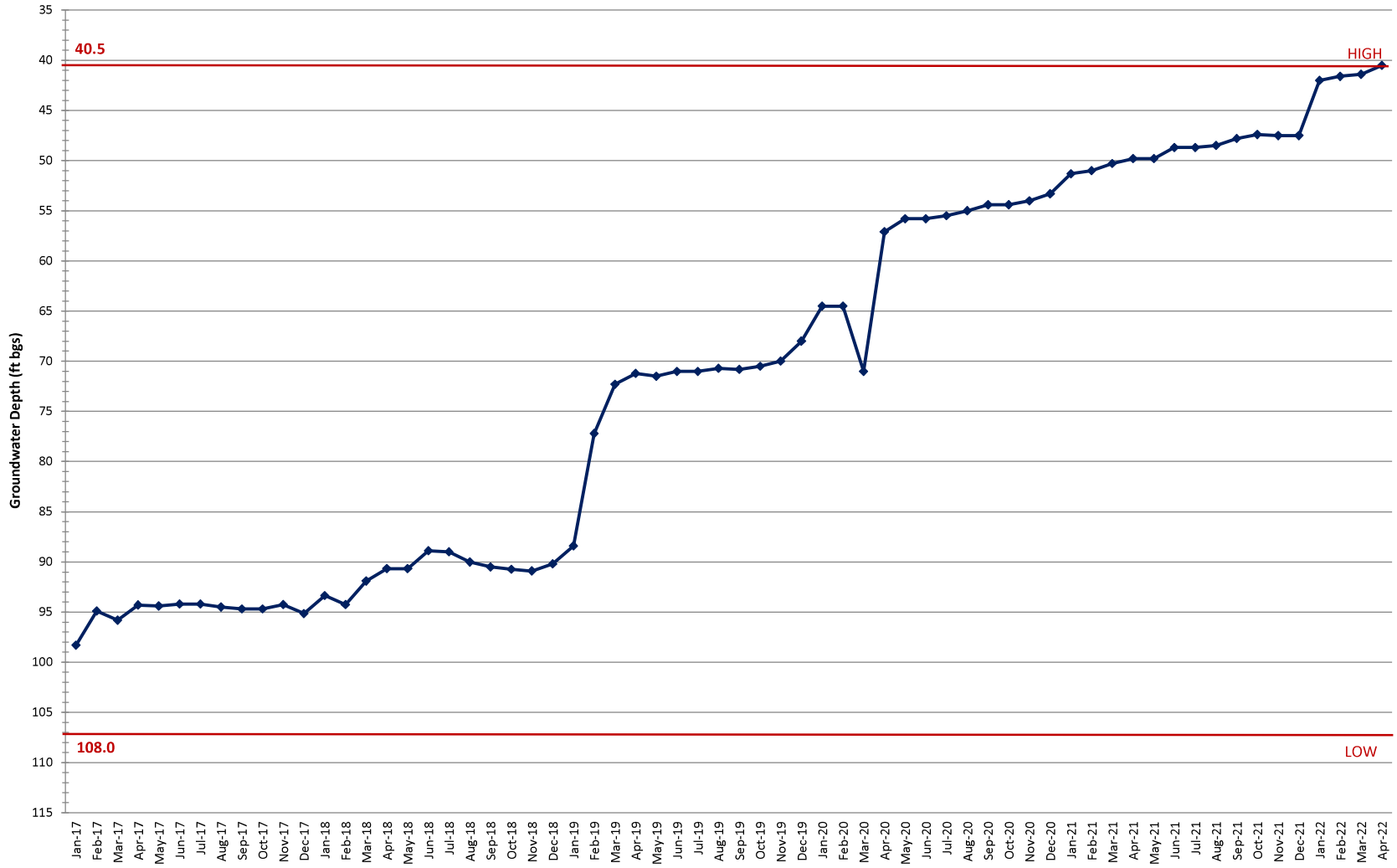
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STATIC WATER LEVEL



SCV WATER WELL SANTA CLARA
STATIC WATER LEVEL VS PRECIPITATION

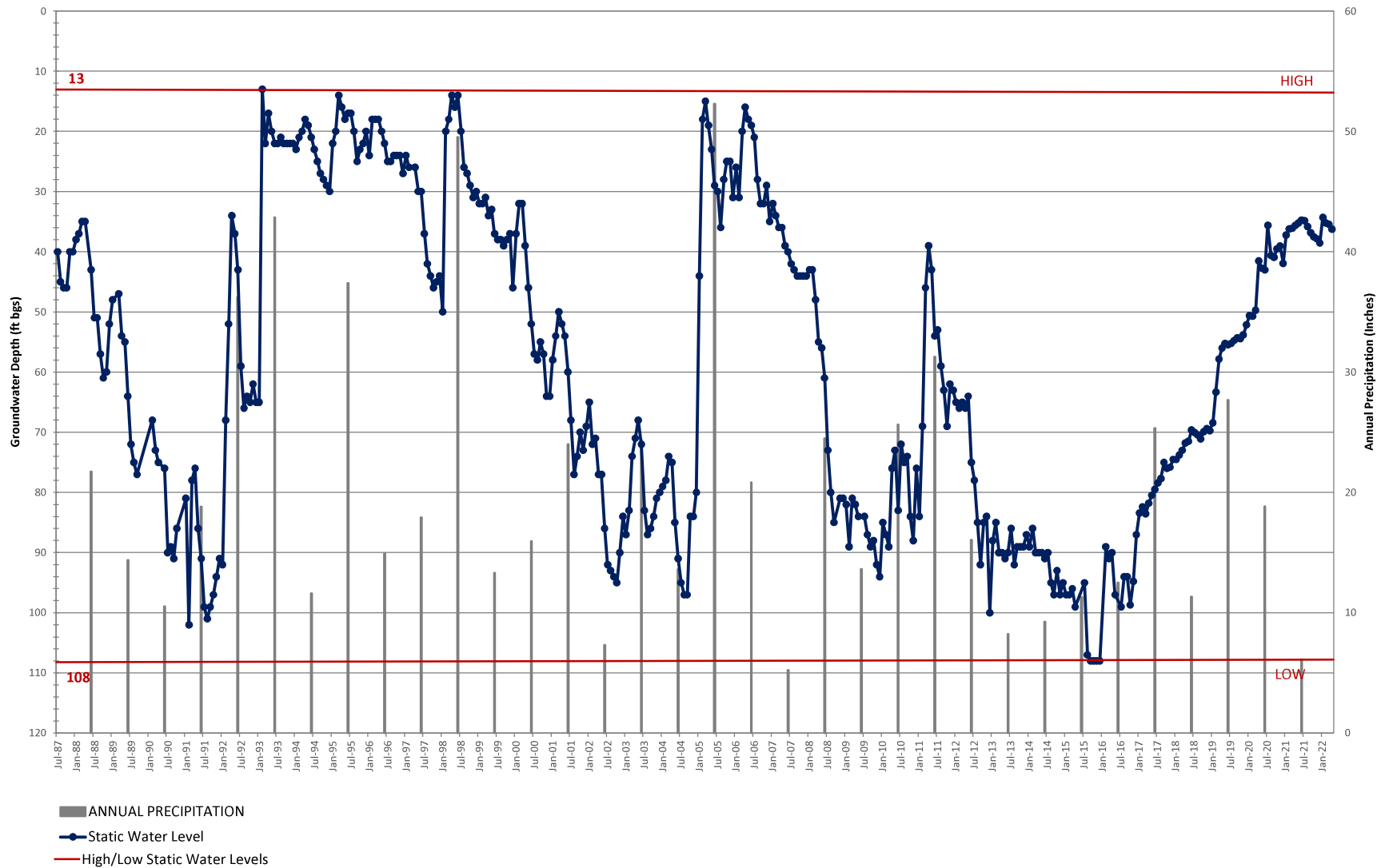


SCV WATER WELL SANTA CLARA
 STATIC WATER LEVEL

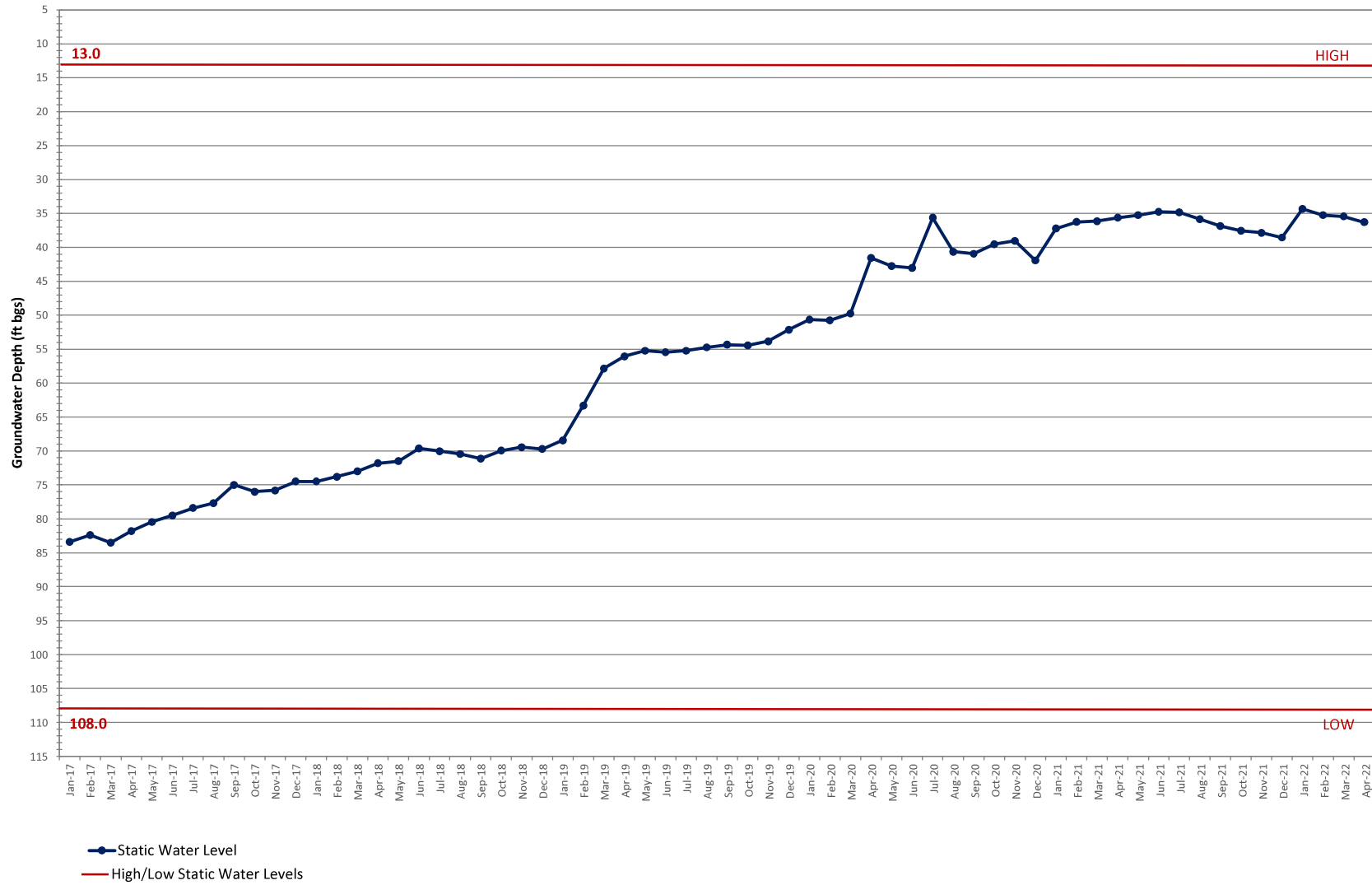


◆ Static Water Level
 — High/Low Static Water Levels

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



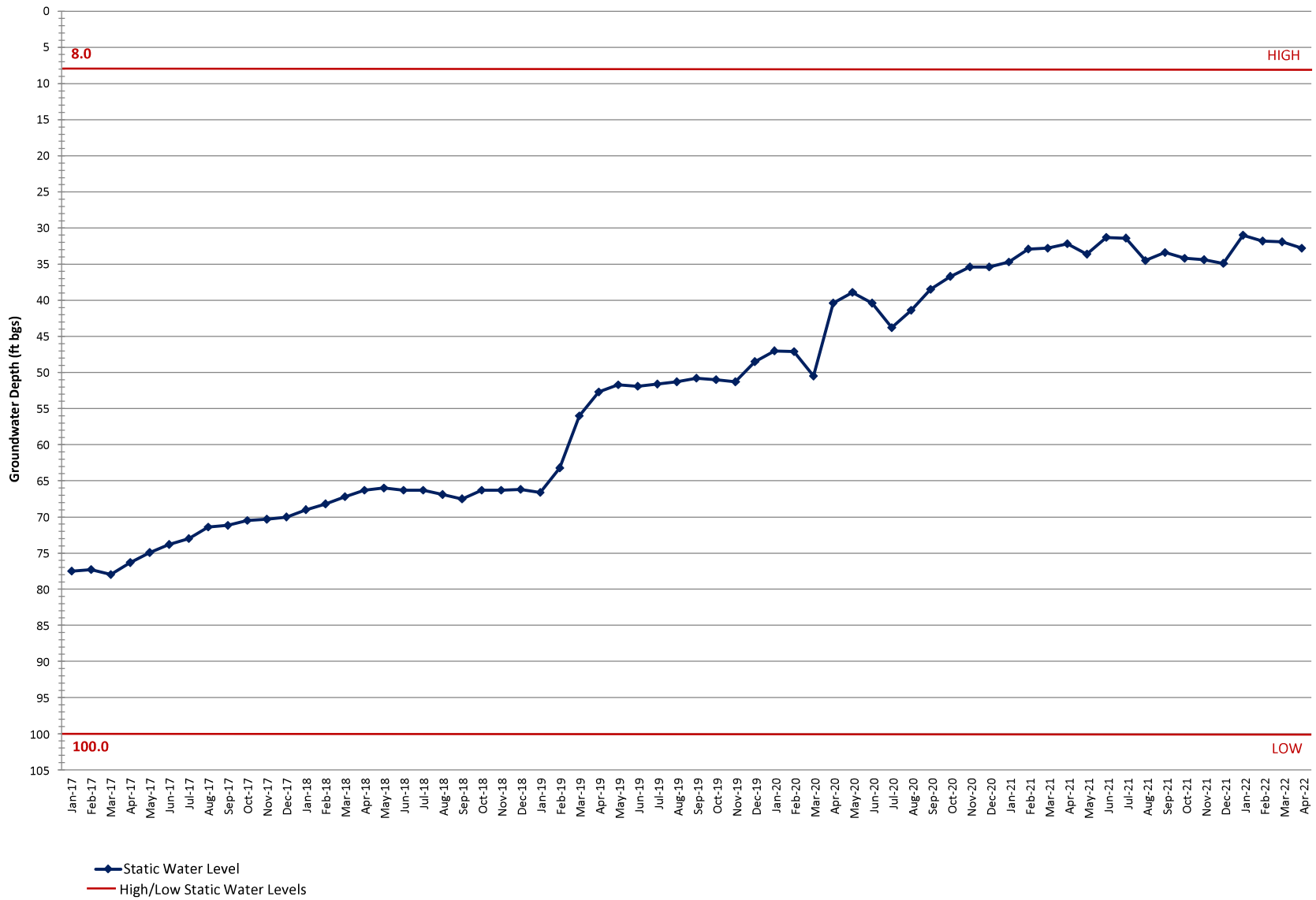
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STATIC WATER LEVEL



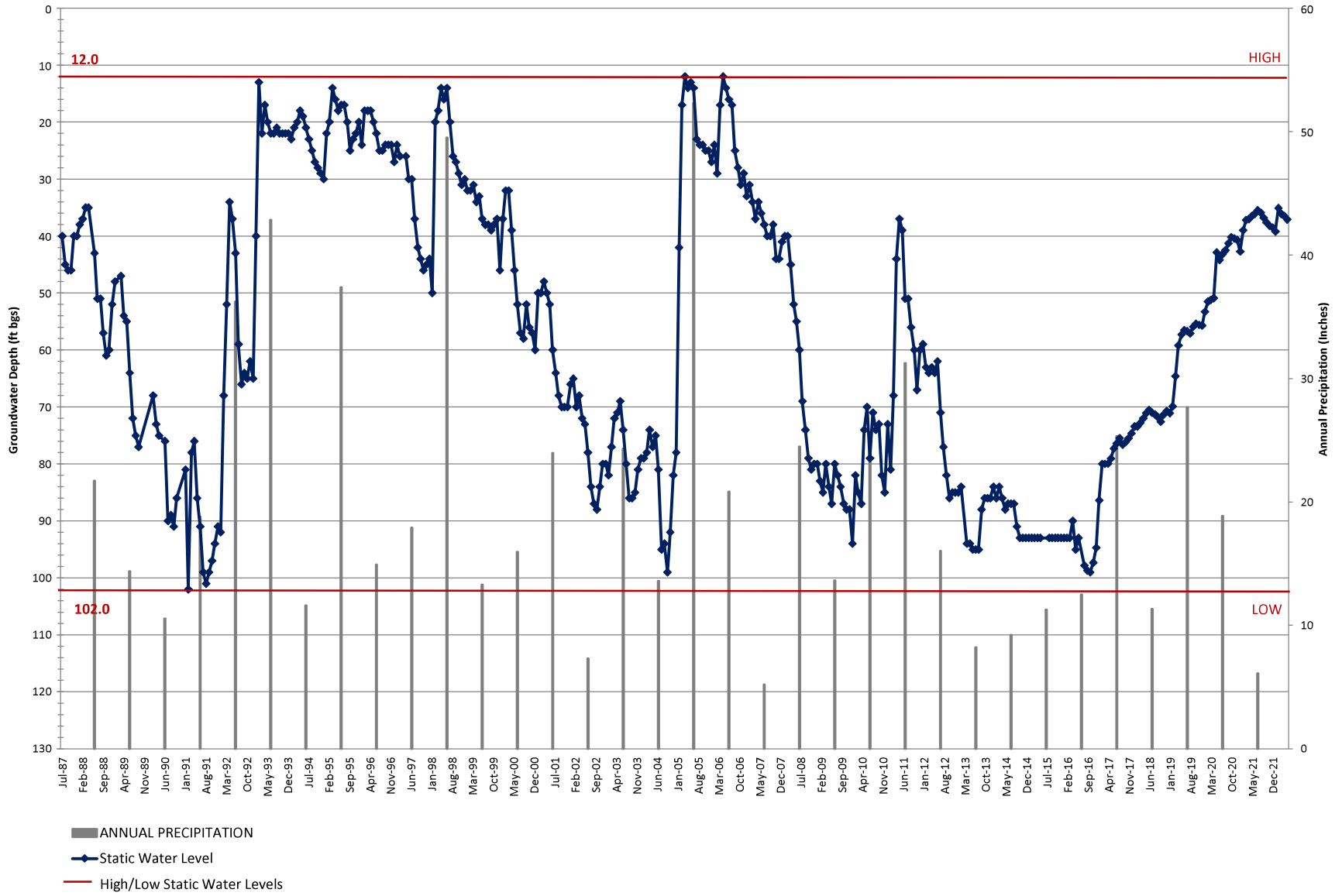
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 STATIC WATER LEVEL VS PRECIPITATION



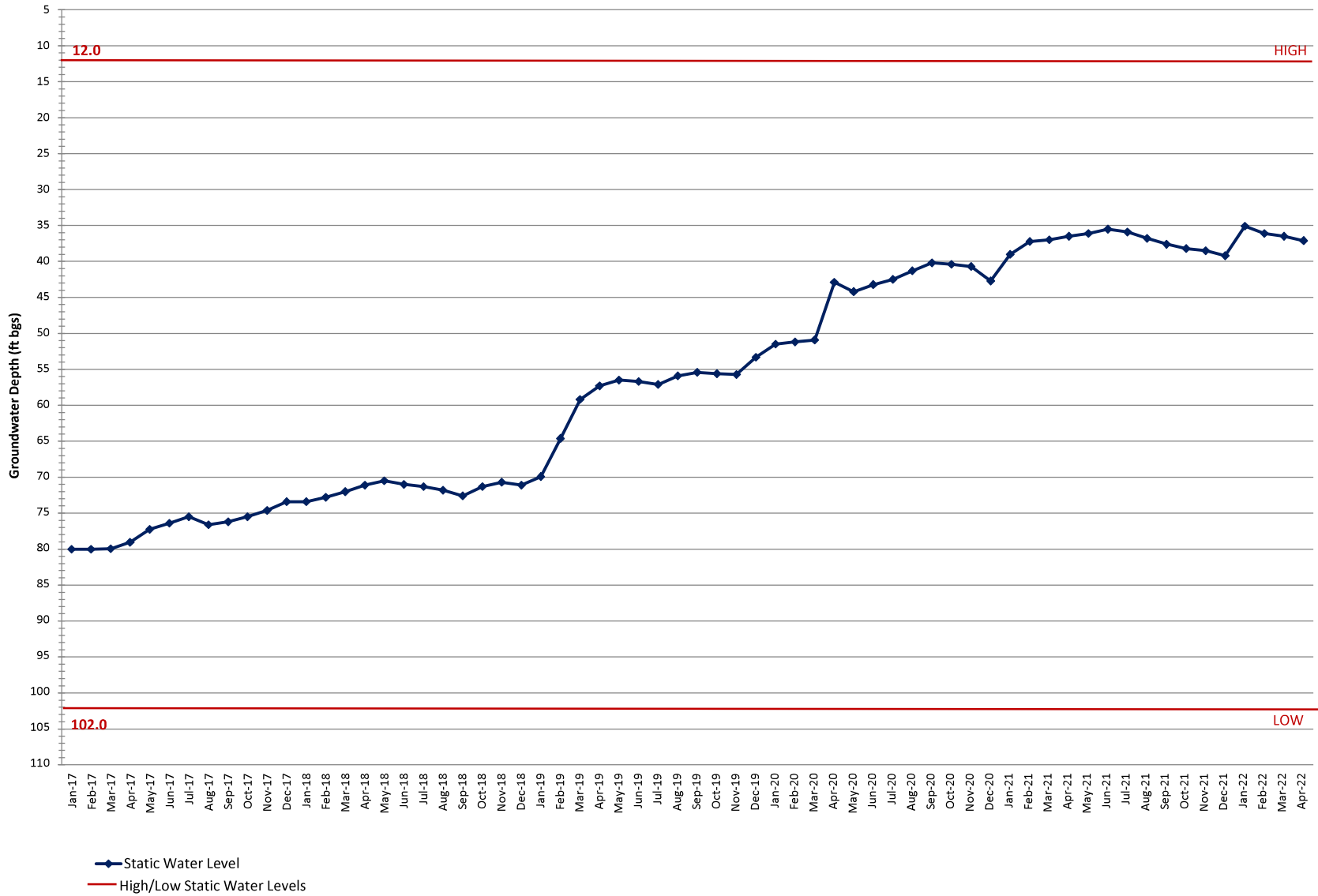
SCV WATER WELL NORTH OAKS WEST #9
STATIC WATER LEVEL



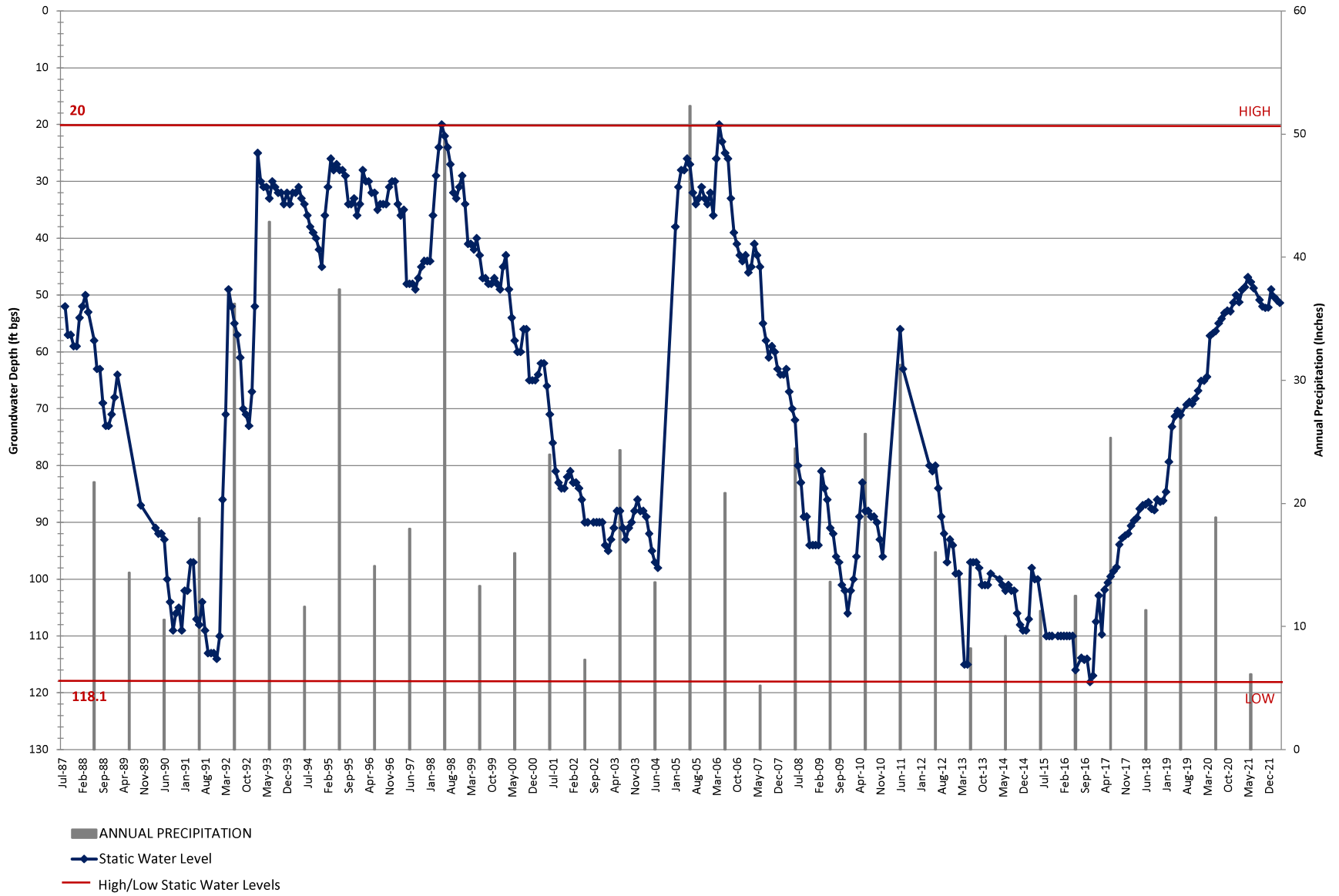
SCV WATER WELL NORTH OAKS EAST #7
 STATIC WATER LEVEL VS PRECIPITATION



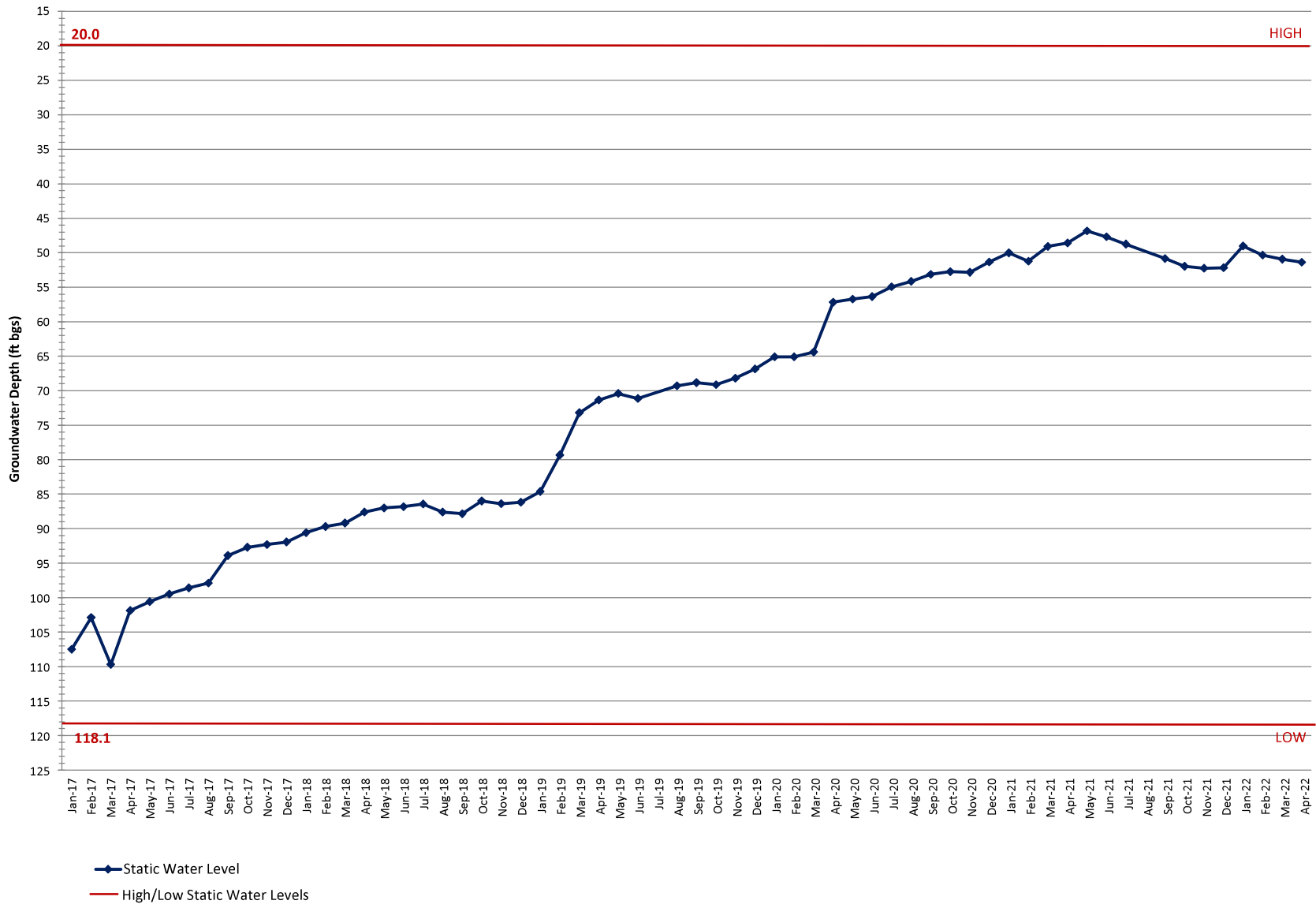
SCV WATER WELL NORTH OAKS EAST #7
 STATIC WATER LEVEL



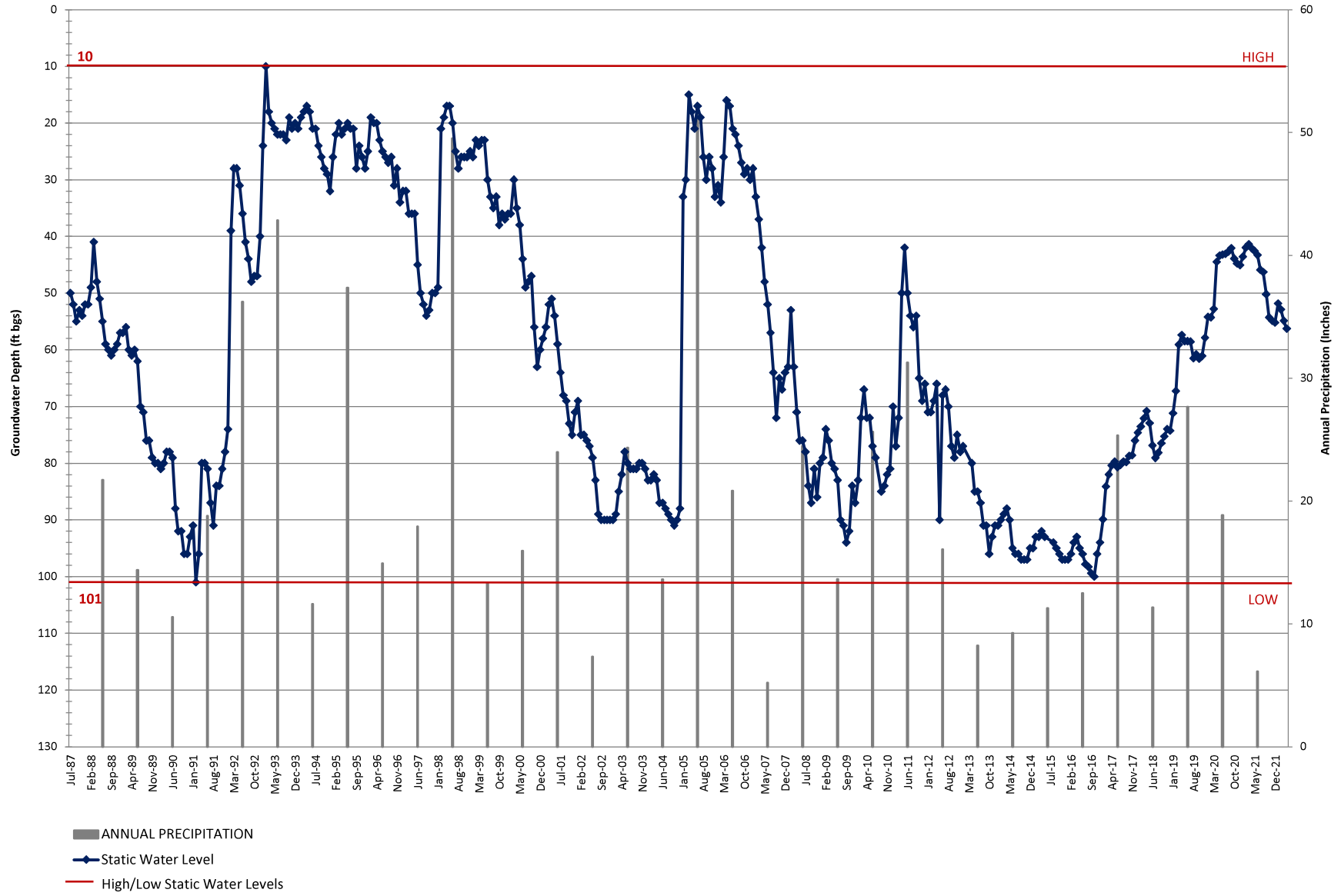
SCV WATER WELL SIERRA #6
STATIC WATER LEVEL VS PRECIPITATION



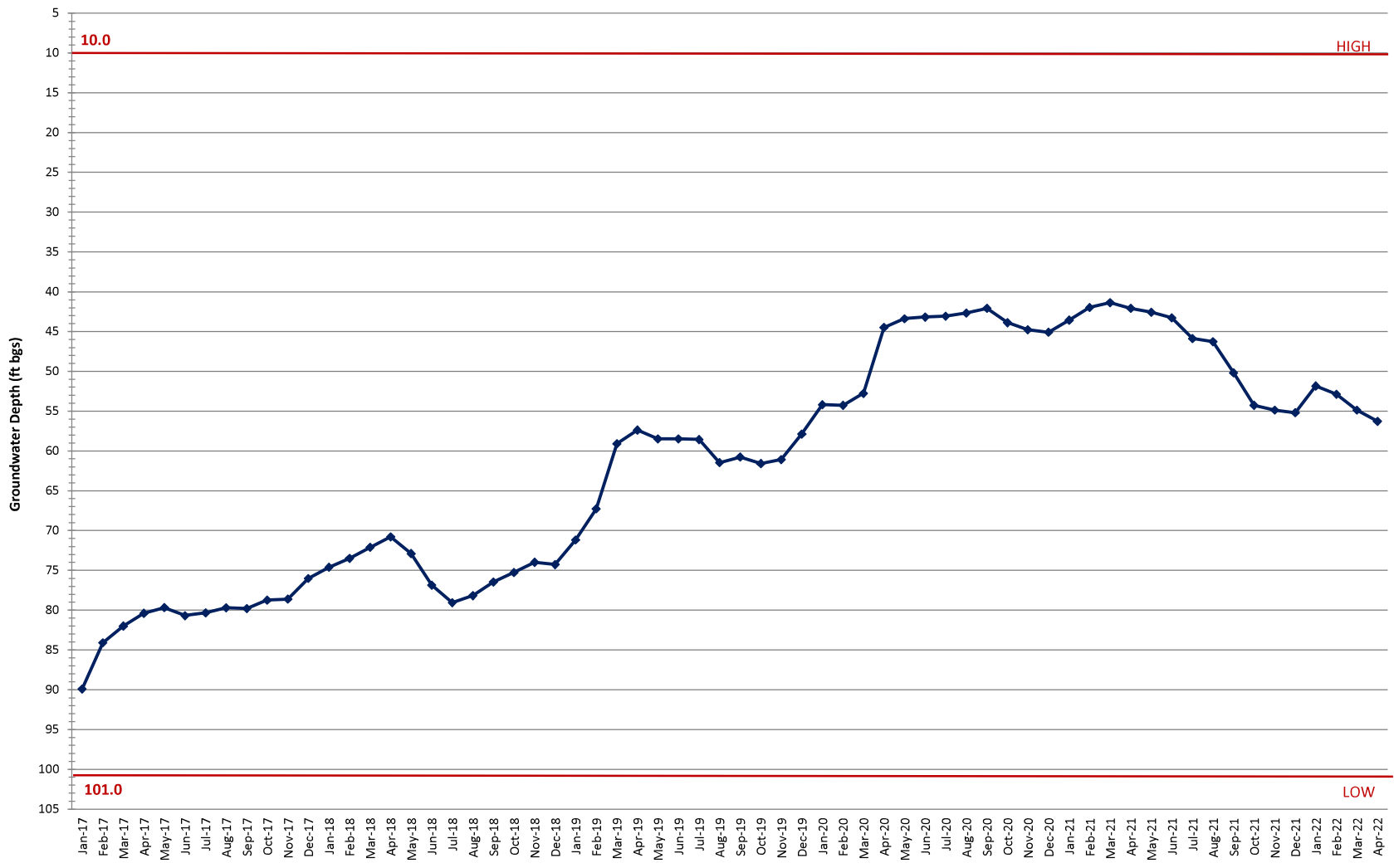
SCV WATER WELL SIERRA #6
STATIC WATER LEVEL



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

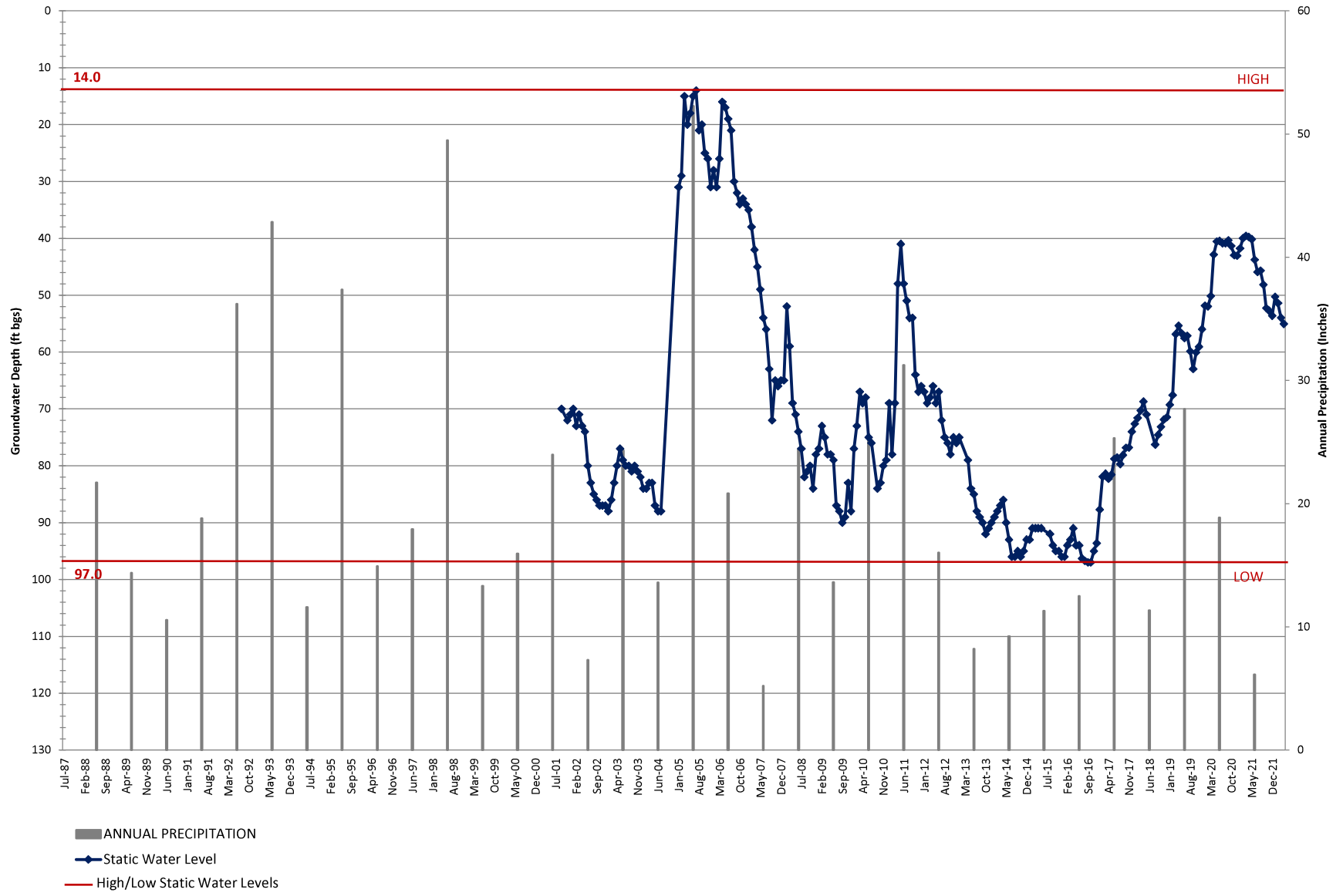


SCV WATER WELL MITCHELL #5A
 STATIC WATER LEVEL

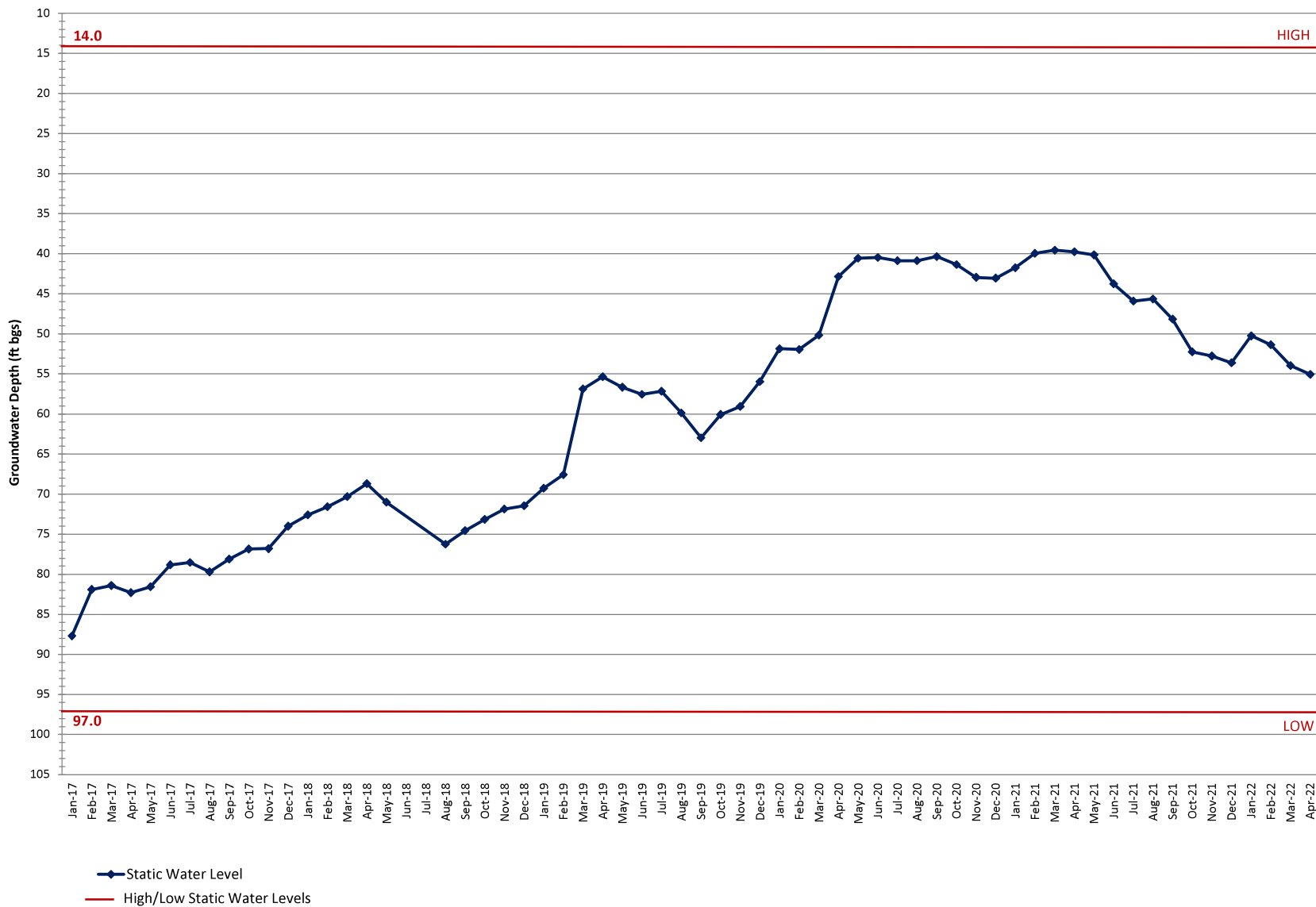


◆ Static Water Level
 — High/Low Static Water Levels

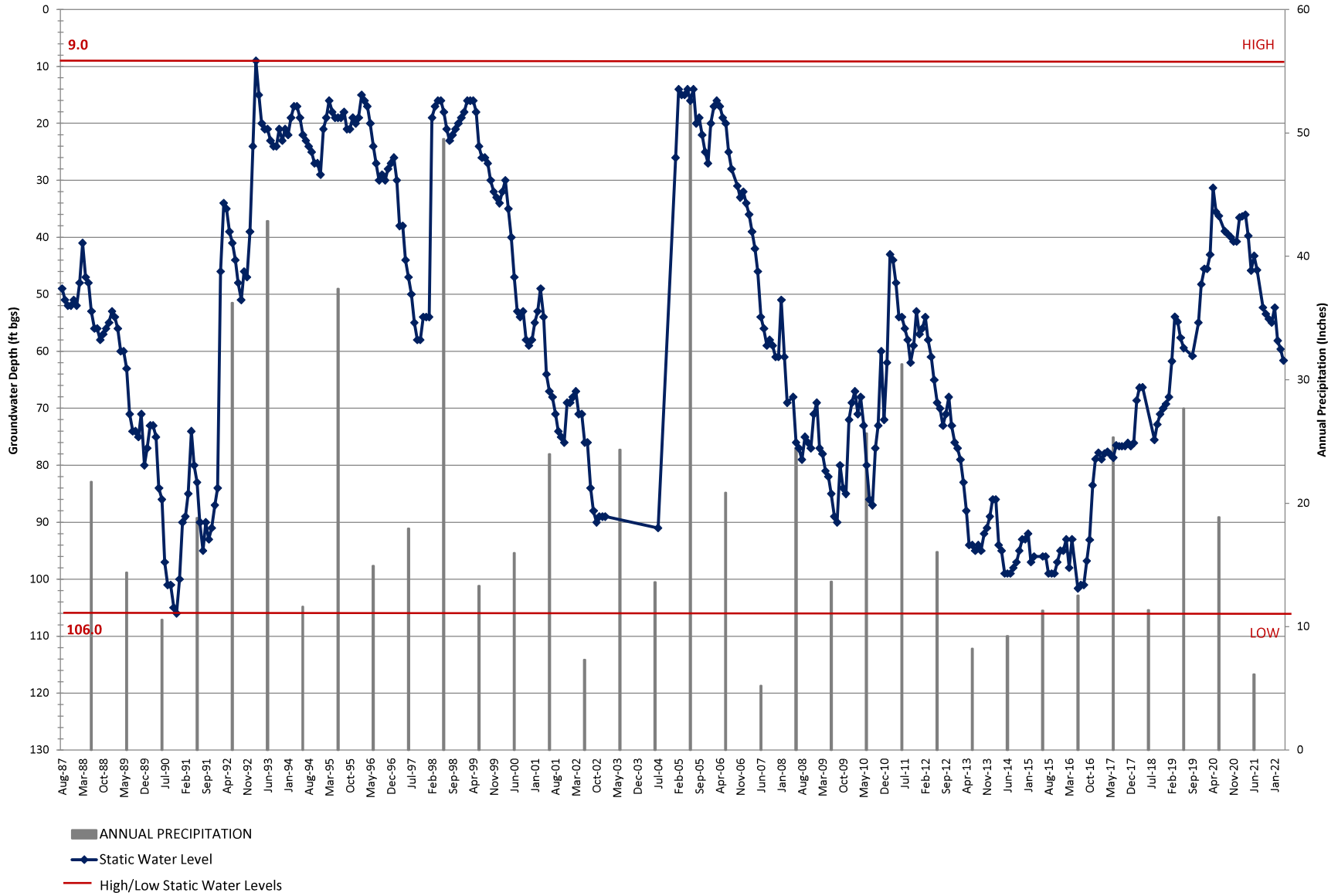
SCV WATER WELL MITCHELL #5B
 STATIC WATER LEVEL VS PRECIPITATION



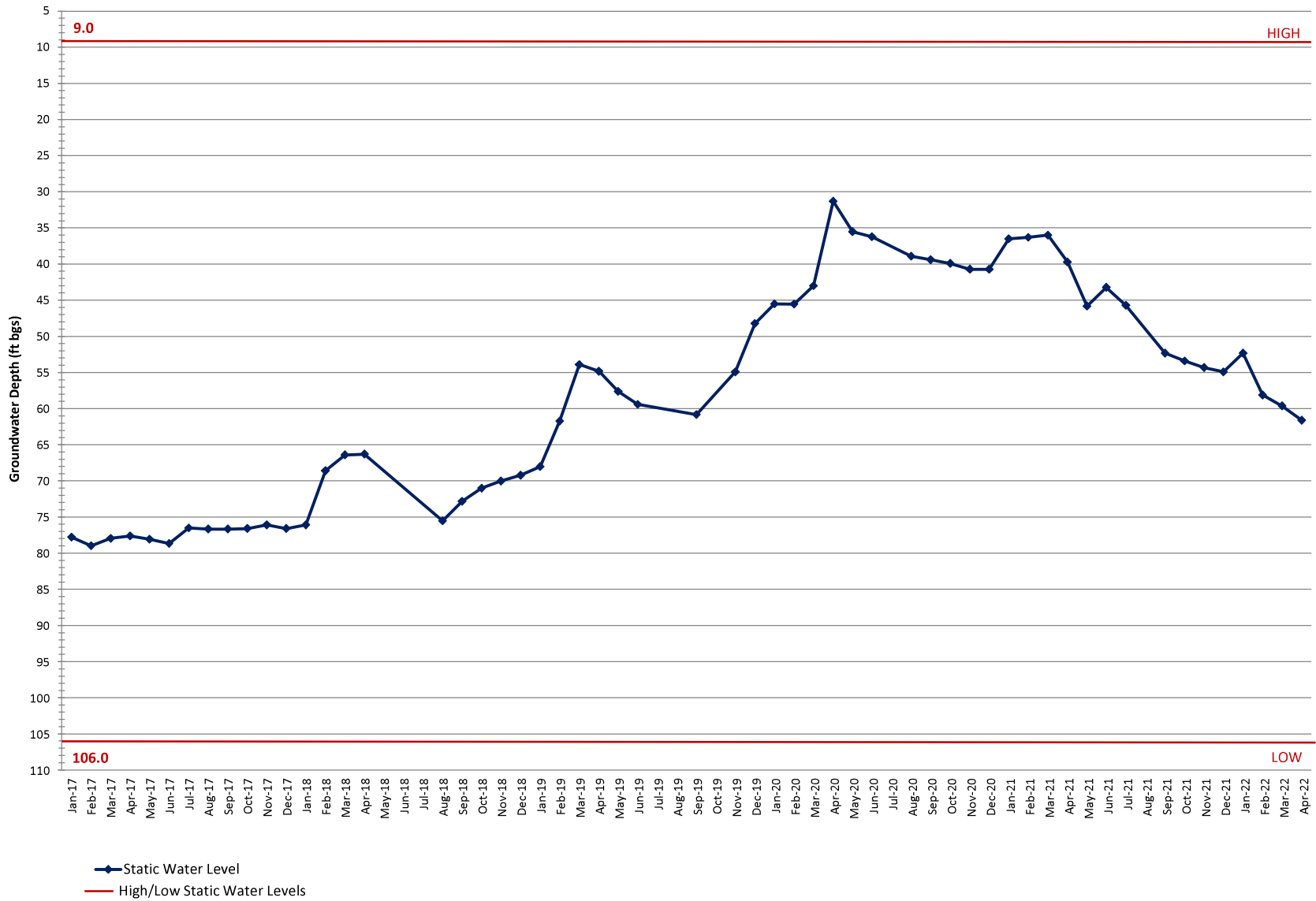
SCV WATER WELL MITCHELL #5B
 STATIC WATER LEVEL



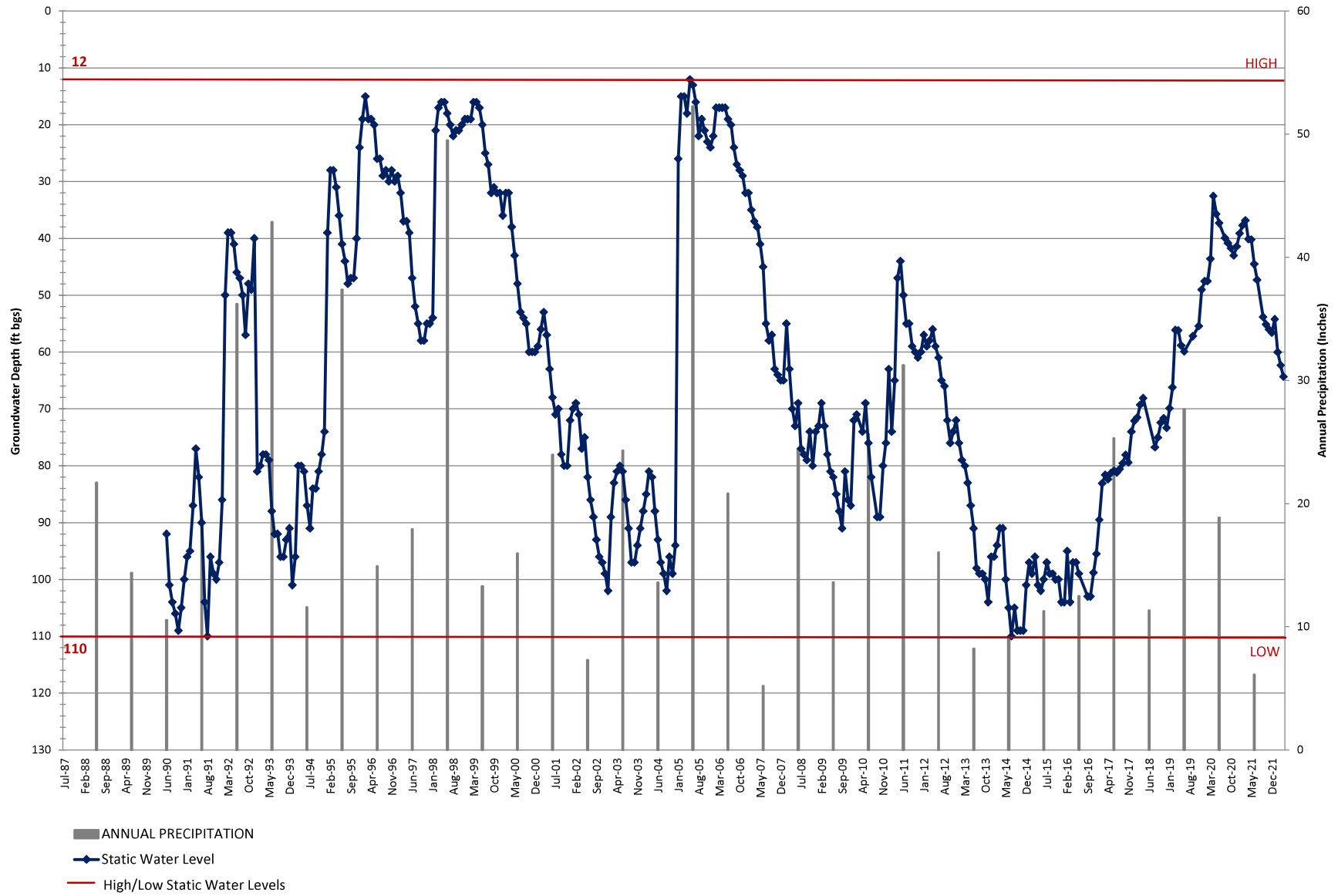
SCV WATER WELL SAND CANYON #3
 STATIC WATER LEVEL VS PRECIPITATION



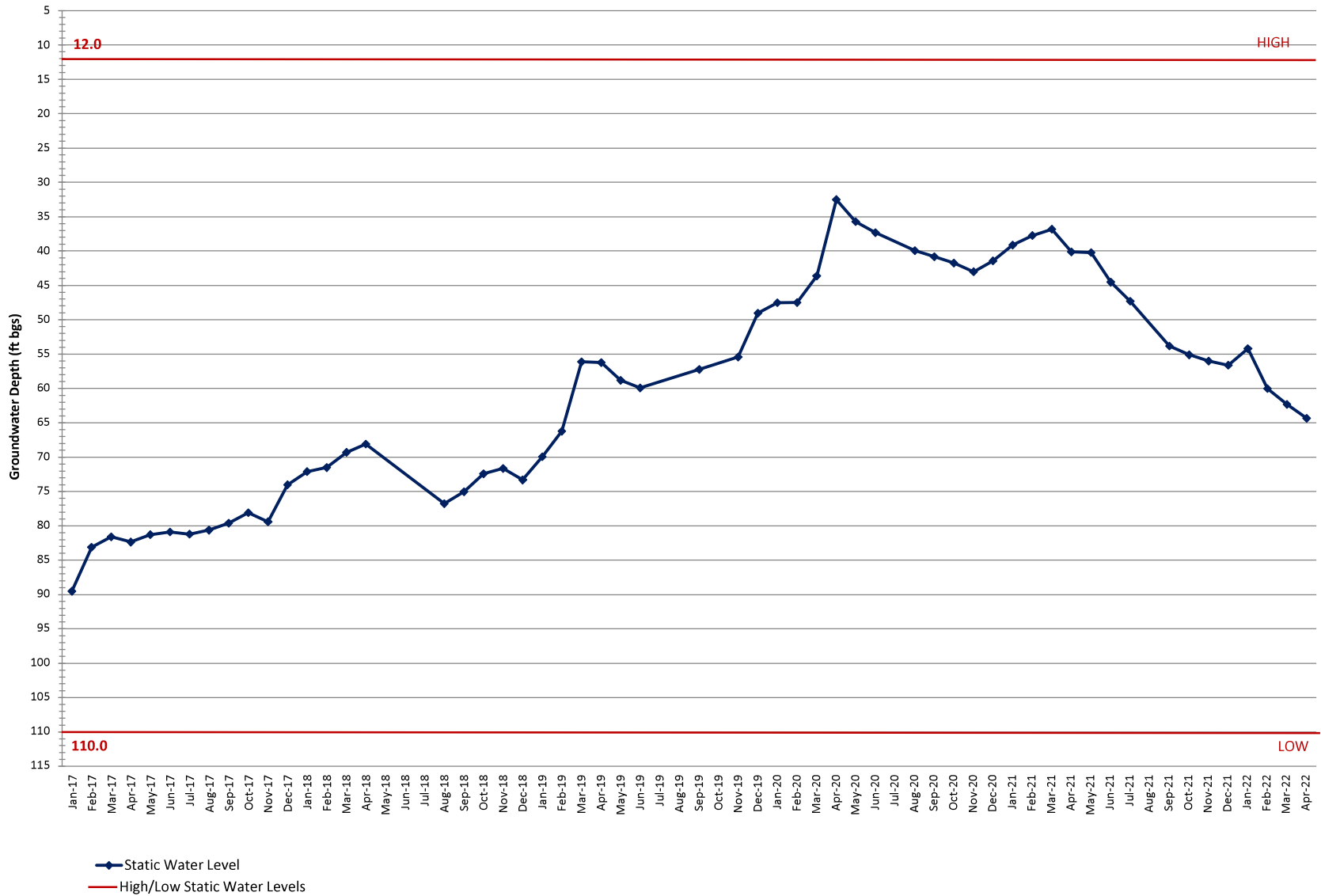
SCV WATER WELL SAND CANYON #3
 STATIC WATER LEVEL



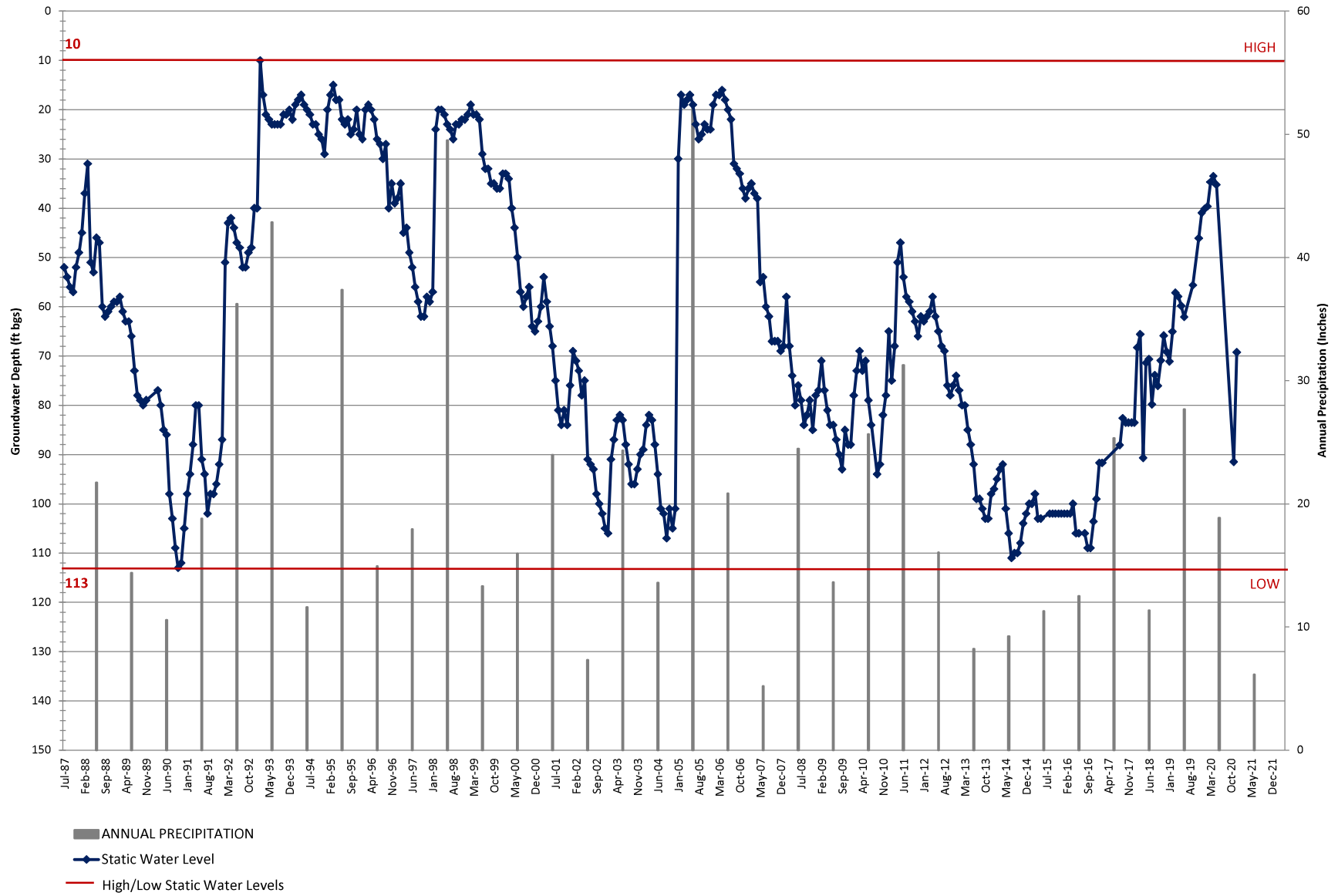
SCV WATER WELL LOST CANYON #2A
 STATIC WATER LEVEL VS PRECIPITATION



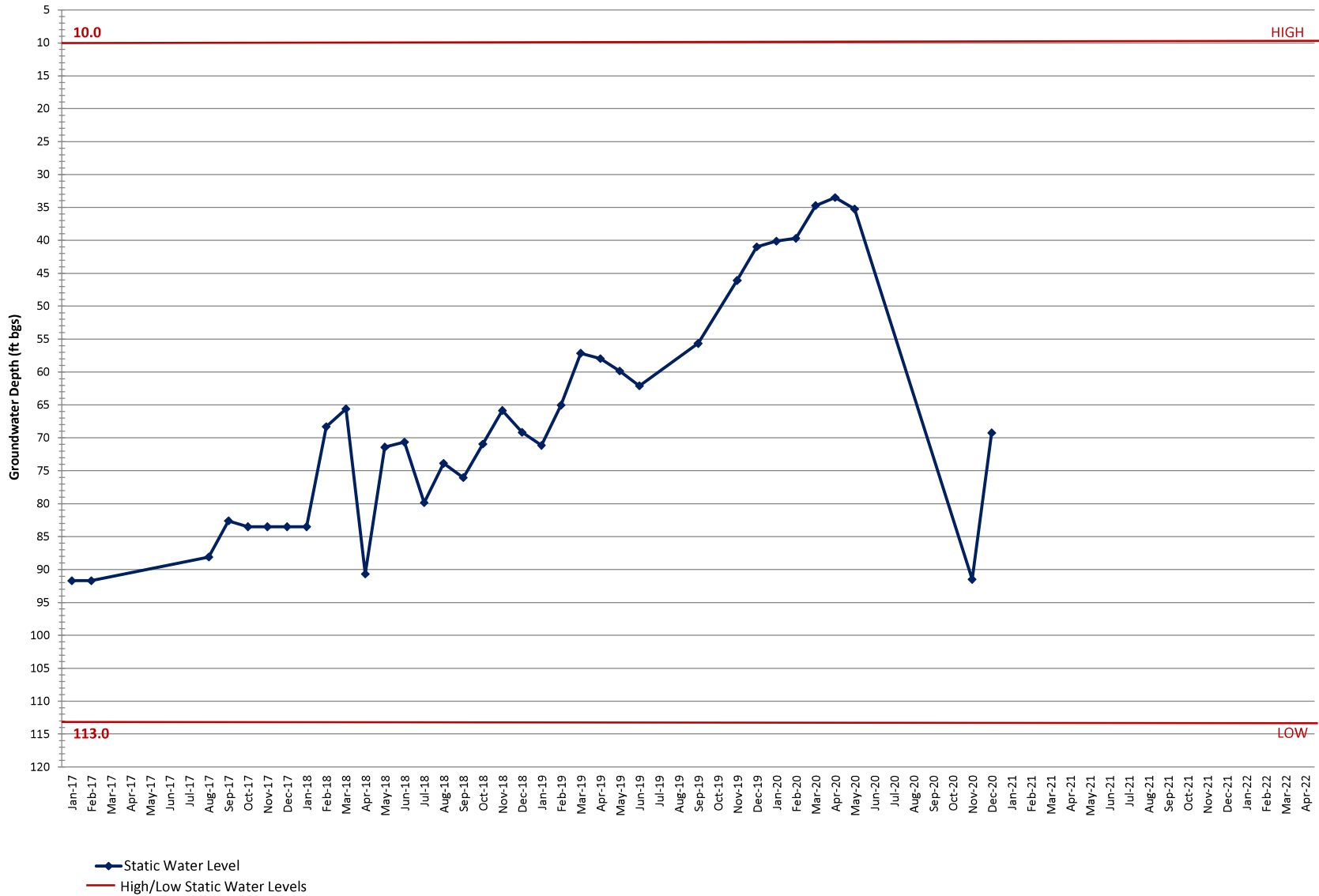
SCV WATER WELL LOST CANYON #2A
 STATIC WATER LEVEL



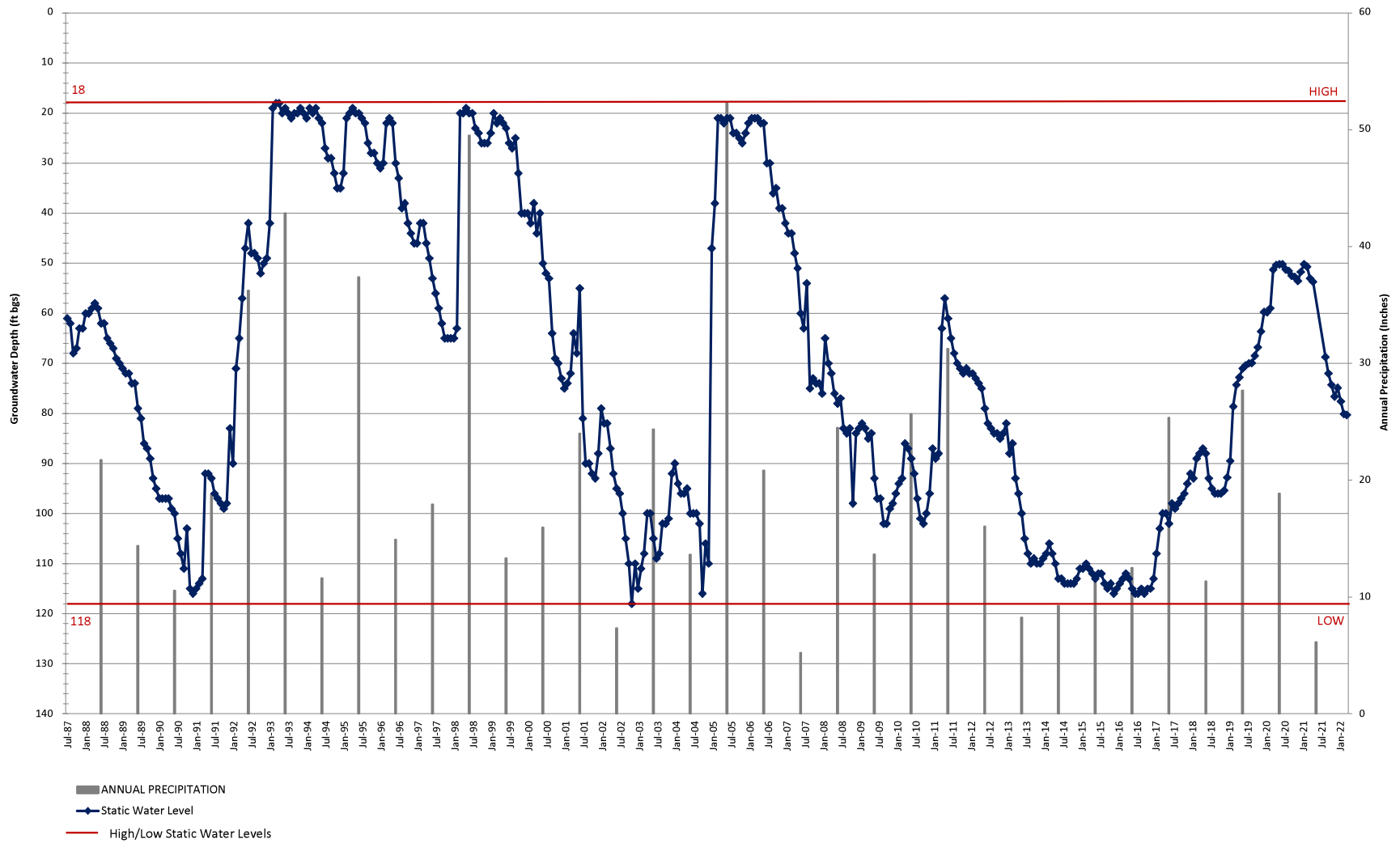
SCV WATER WELL LOST CANYON #2
 STATIC WATER LEVEL VS PRECIPITATION



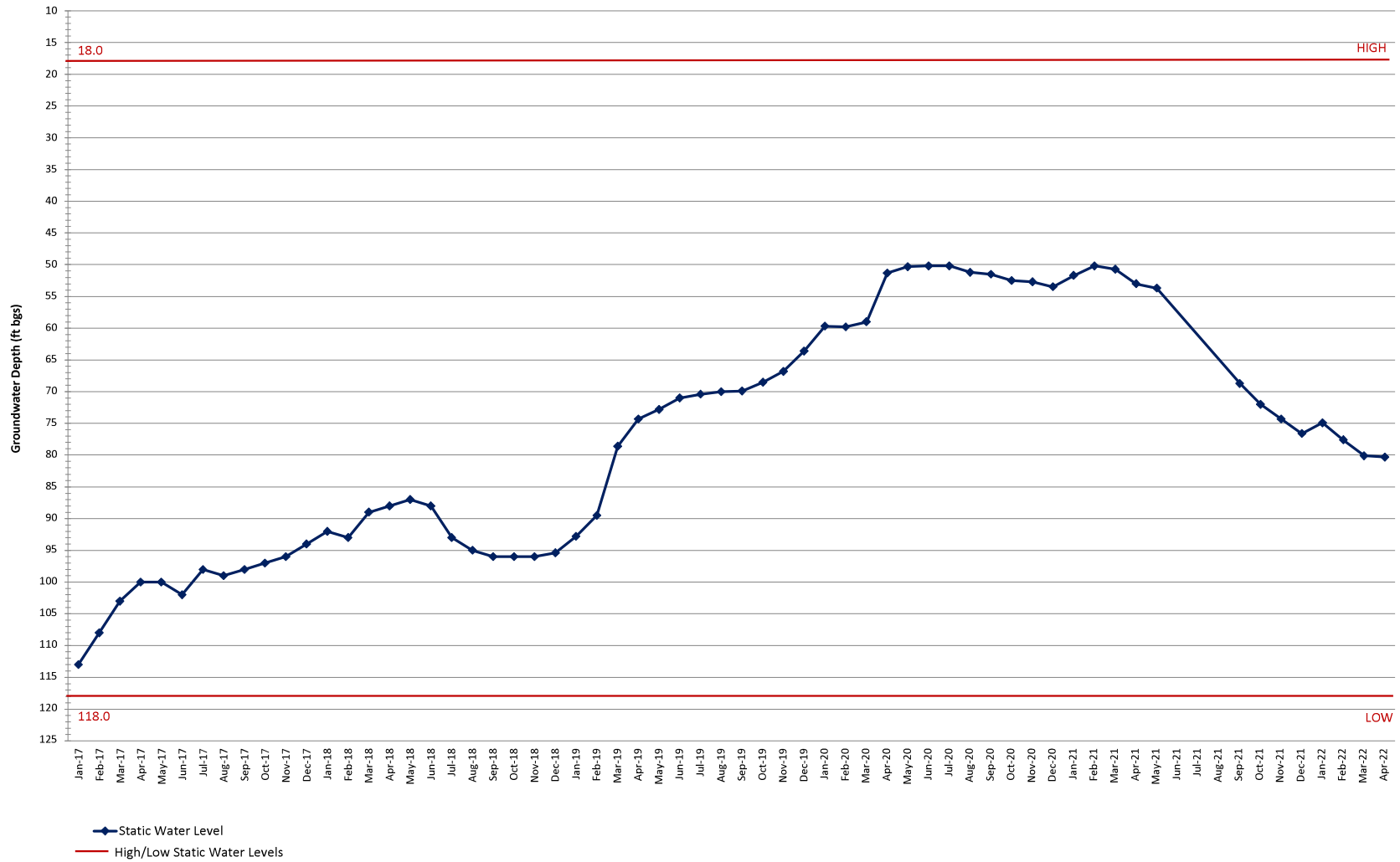
SCV WATER WELL LOST CANYON #2
 STATIC WATER LEVEL



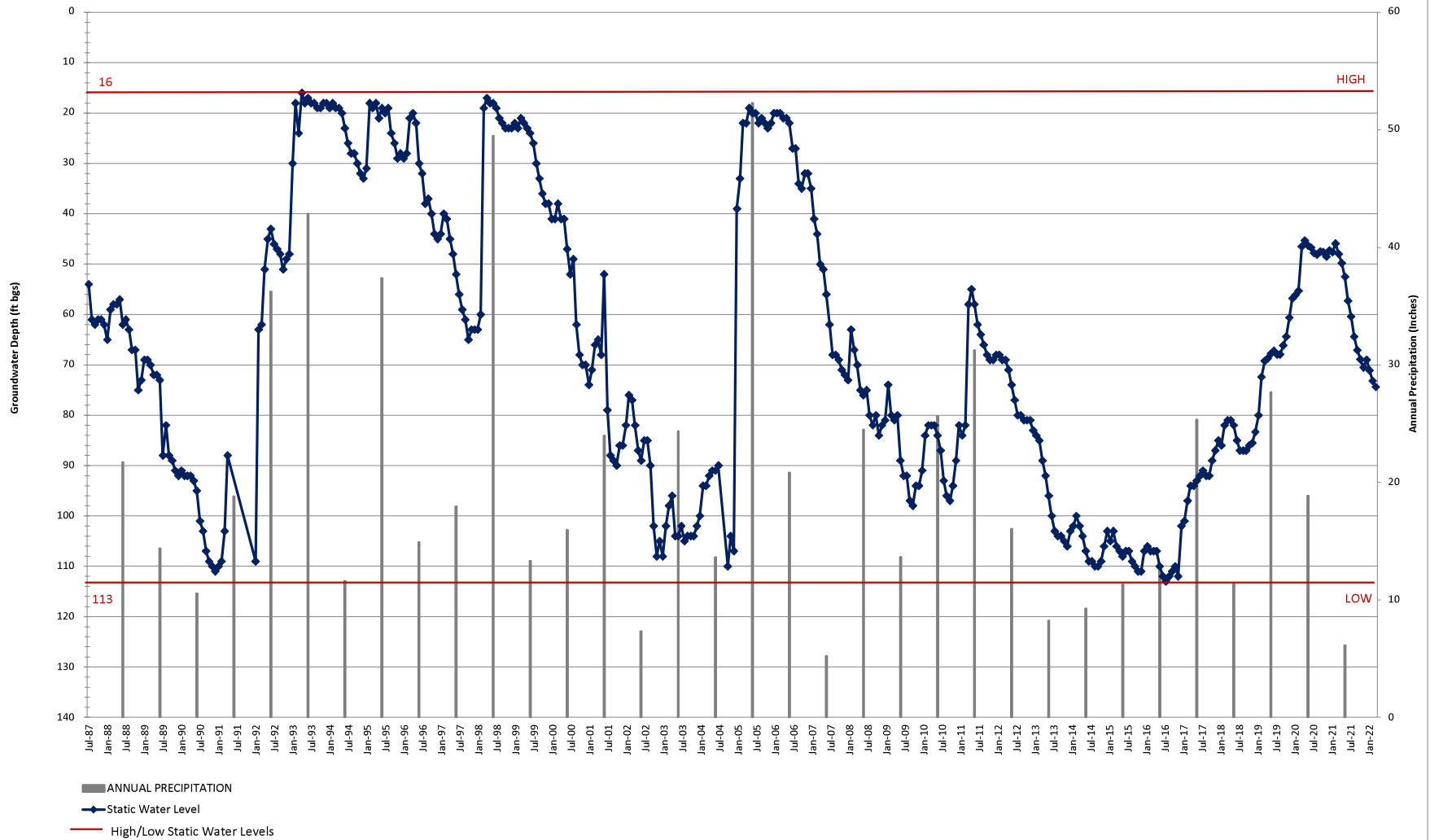
SCV WATER WELL P3
 STATIC WATER LEVEL VS PRECIPITATION



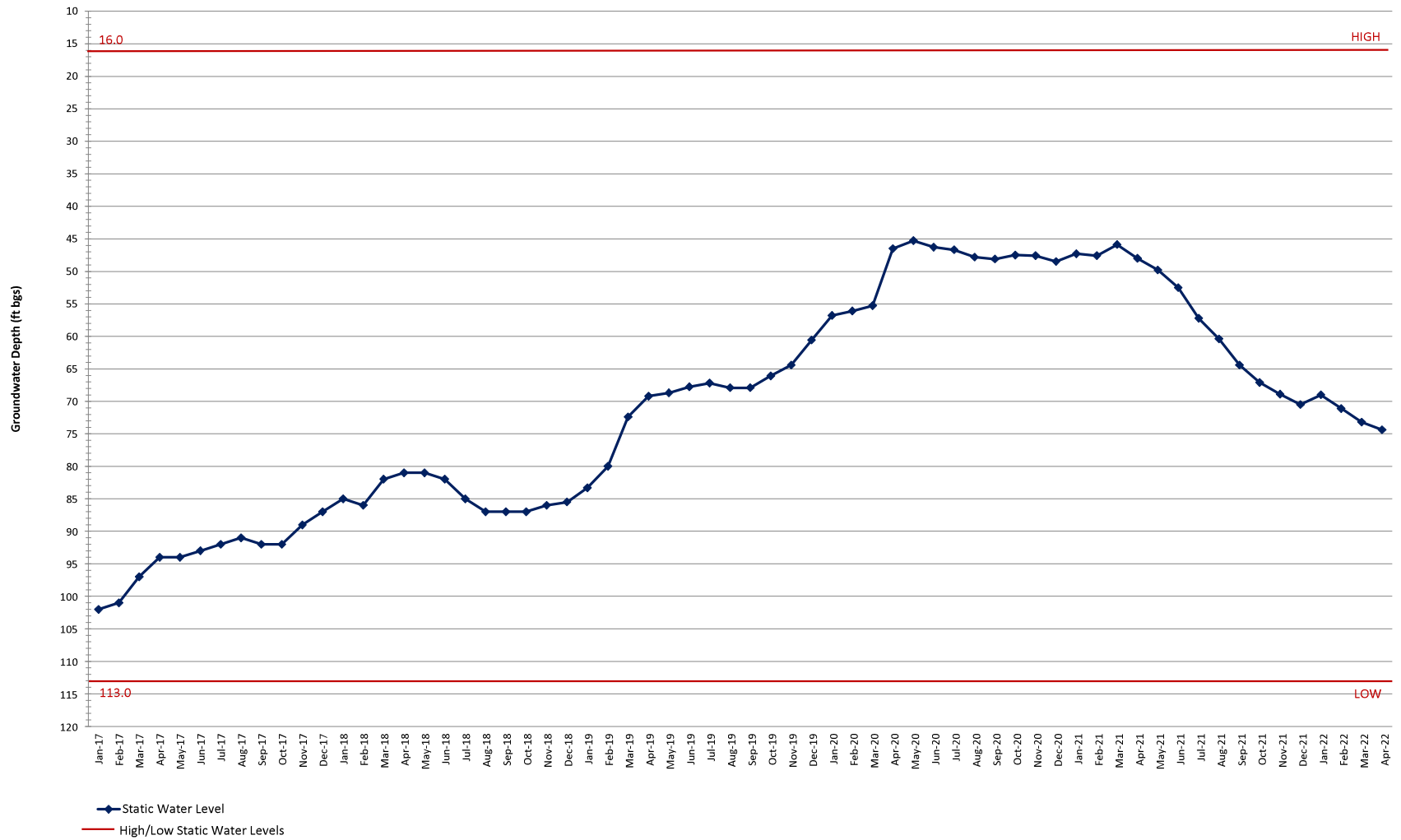
SCV WATER WELL P3
 STATIC WATER LEVEL



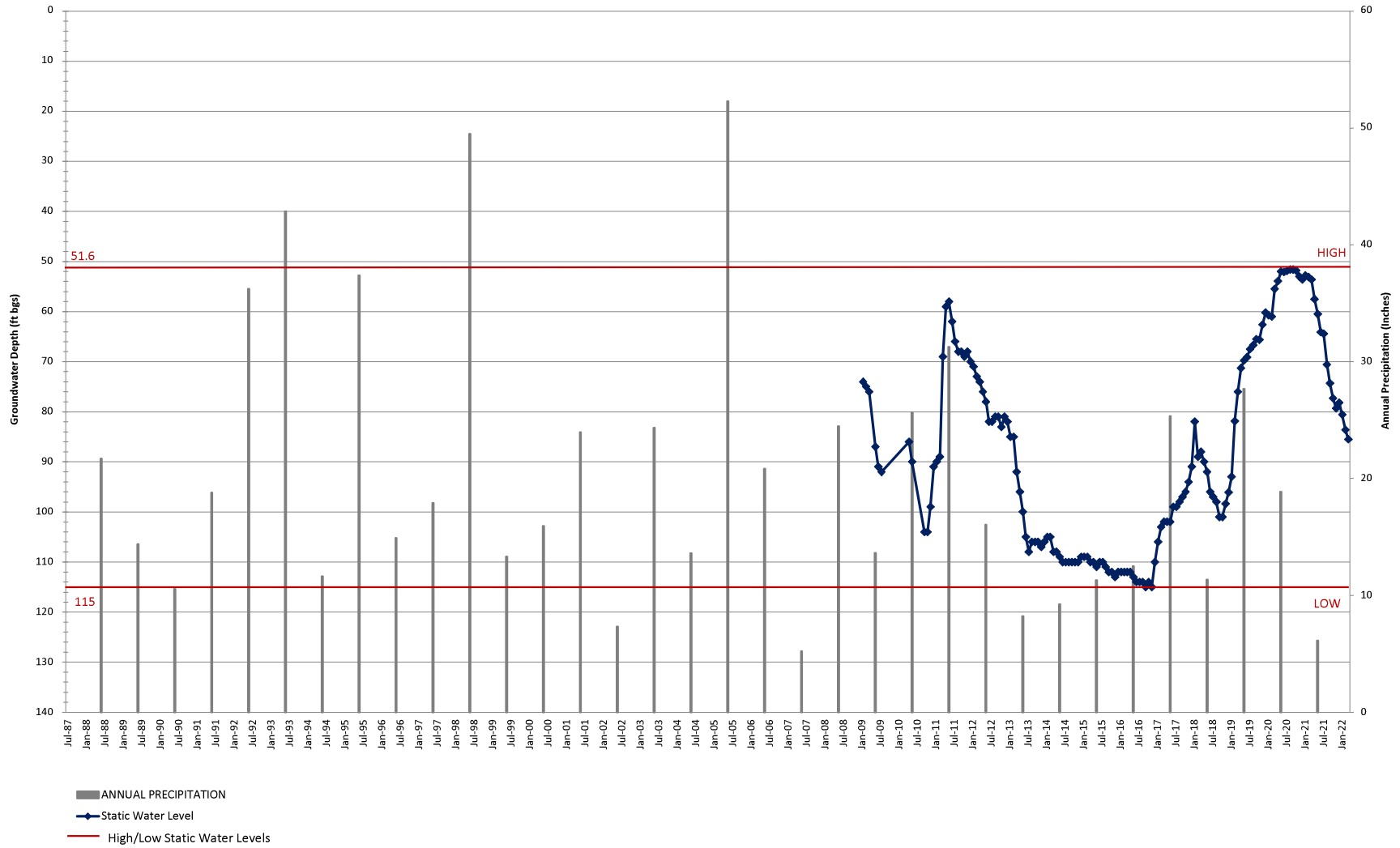
SCV WATER WELL P4
 STATIC WATER LEVEL VS PRECIPITATION



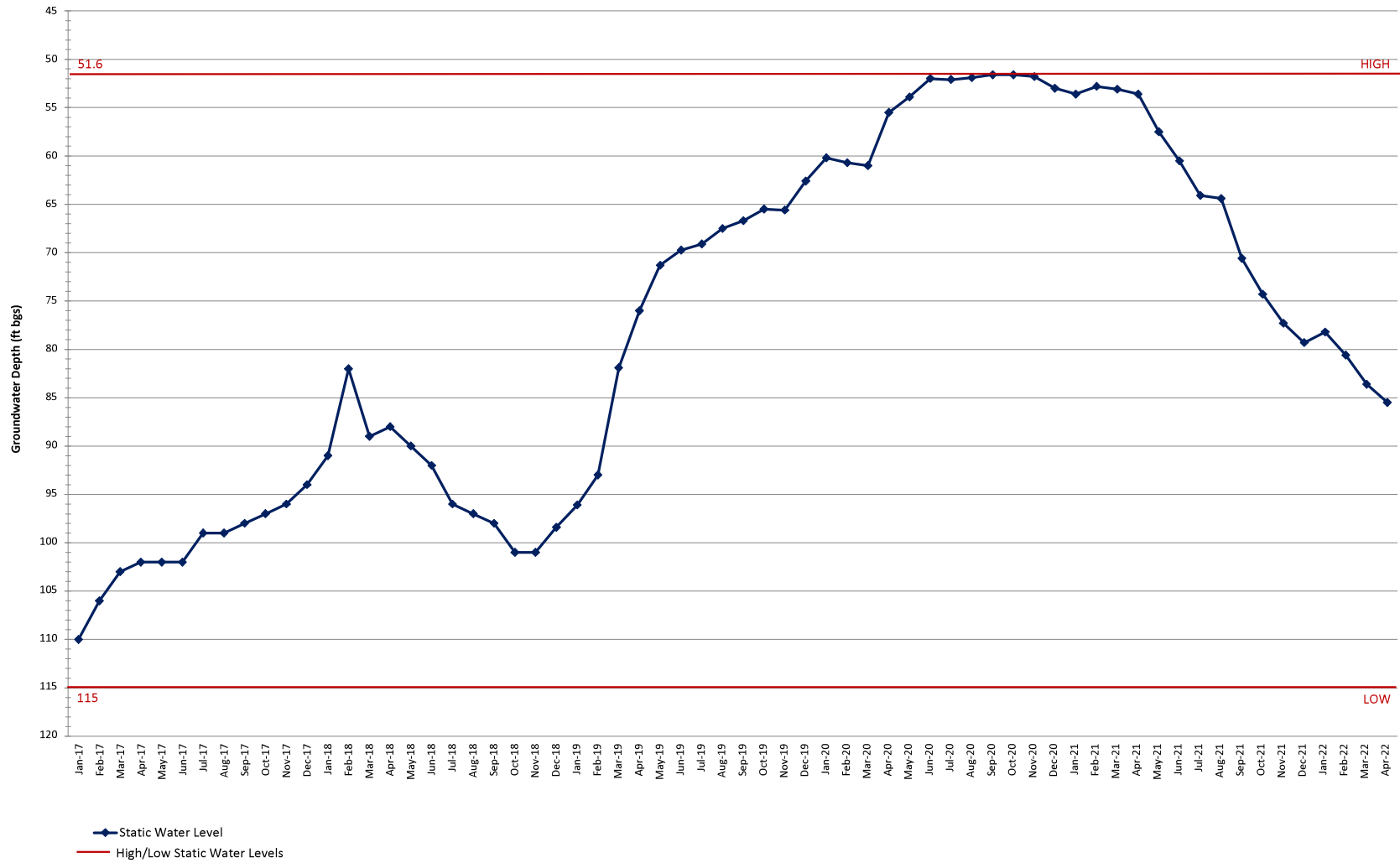
SCV WATER WELL P4
STATIC WATER LEVEL



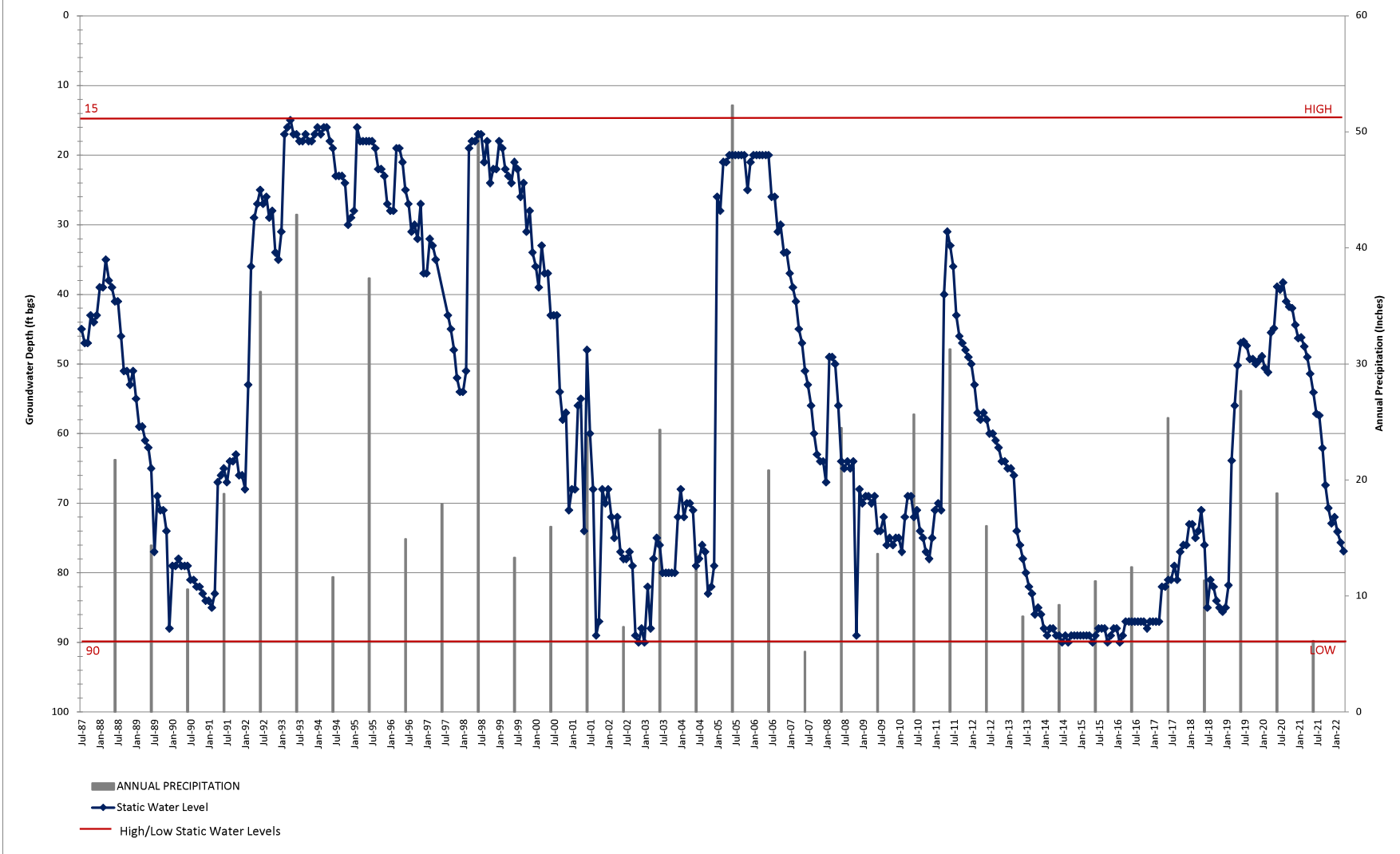
SCV WATER WELL P5
STATIC WATER LEVEL VS PRECIPITATION



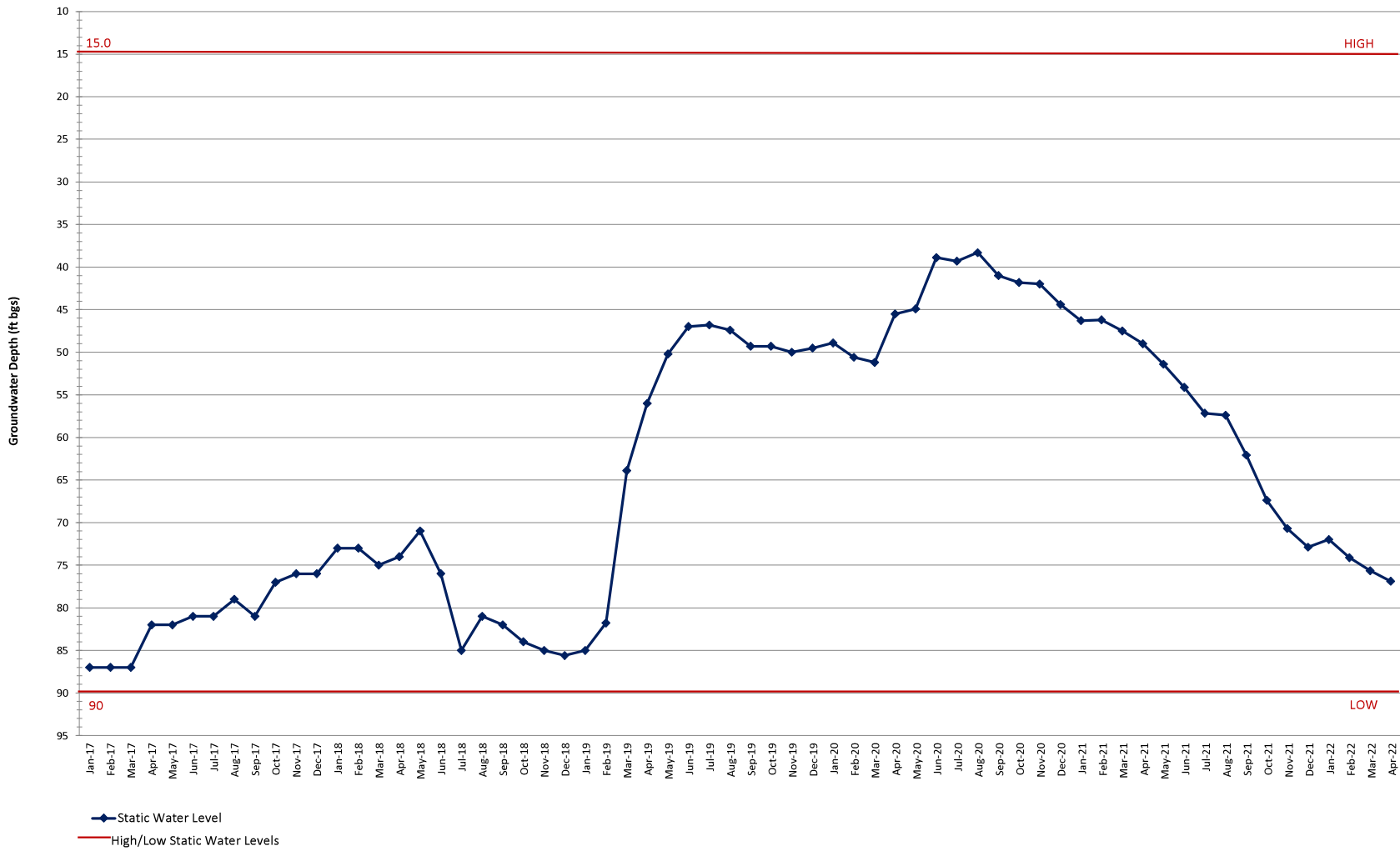
SCV WATER WELL P5
STATIC WATER LEVEL



SCV WATER WELL P1
 STATIC WATER LEVEL VS PRECIPITATION



SCV WATER WELL P1
 STATIC WATER LEVEL



**Santa Clarita Valley Water Agency
Capital Improvement Projects (CIP) Construction Status Report
As of May 15, 2022**

Project	Contractor	Original Contract Amount	Change Orders to Date	% Change Orders	Current Contract Amount	Scheduled Completion	Estimated % of Work Completed	Status
ESFP Standby Generator	NoHo Constructors	\$463,000	\$1,030.91	0.22%	\$464,030.91	June 1, 2022	100%	Generator start-up is in progress.
Vista Canyon (Phase 2B) Recycled Water Tanks	Pacific Tank and Construction, Inc.	\$3,906,870	\$363,316.95	9.08%	\$4,270,186.95	June 30, 2022	85%	Construction is in progress.
Commerce Center Drive Pipeline	FivePoint / Blois Construction, Inc.	\$891,139.70	\$0	0%	\$891,139.70	June 30, 2022	99%	Construction close-out is in progress.
Magic Mountain Pipeline Phase 4	FivePoint / Toro Enterprises	\$3,084,725	\$197,050.38	6.39%	\$3,281,775.38	June 30, 2022	94%	Construction is in progress.
Magic Mountain Pipeline Phase 5	FivePoint / Toro Enterprises	\$3,269,978.85	\$0	0%	\$3,269,978.85	June 30, 2022	90%	Construction is in progress.
Magic Mountain Pipeline Phase 6A	FivePoint / Toro Enterprises	\$7,168,844.85	\$0	0%	\$7,168,844.85	June 30, 2022	70%	Construction is in progress.
Magic Mountain Pipeline Phase 6B	FivePoint / Leatherwood Construction	\$4,568,687.07	\$0	0%	\$4,568,687.07	June 30, 2022	88%	Construction is in progress.
Valley Center Well PFAS Groundwater Treatment Improvements Material Purchase	Evoqua Water Technologies, LLC.	\$512,802	\$0	0%	\$512,802	August 1, 2022	90%	Material delivery complete. Start-up services on-hold, pending site construction work to be complete.
Valley Center Well PFAS Groundwater Treatment Improvements Site Construction	GSE Construction Company, Inc.	\$2,996,800	\$0	0%	\$2,996,800	August 31, 2022	76%	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
Vista Canyon Recycled Water Main Extension (Phase 2B)	Ferreira Construction Co, Inc.	\$2,752,982	(\$168,872)	(6.1%)	\$2,584,110	September 30, 2022	85%	Pipeline Construction on bridge is temporarily suspended due to owl's nest in utility opening. Based on field survey (May 2) by biologist, the nest is now inactive. Based on a call with California Fish and Wildlife, staff will submit notification letter with plan to temporarily remove the nest, install the pipeline and replace the nest in kind.
Santa Clara & Honby Wells PFAS Groundwater Treatment Improvements Material Purchase	Aqueous Vets	\$814,050	\$0	0%	\$814,050	November 3, 2022	10%	Material submittals are in progress.
Pitchess Pipeline Modifications	Los Angeles County Metropolitan Transportation Authority	\$159,000	\$0	0%	\$159,000	May 2024	0%	Pipeline modifications scheduled to start around February 2024
Saugus #3 & #4 Wells Construction (Replacement Wells)	Zim Industries, Inc.	\$12,751,494	\$0	0%	\$12,751,494	To be determined	1%	Notice of Award has been issued. Contract, Bonds, and Insurance documents are in progress.
ESFP Washwater Return Improvements	Pacific Hydrotech Corporation	\$17,526,700	\$0	0%	\$17,526,700	To be determined	0%	Notice of Award has been issued. Contract, Bonds, and Insurance documents are in progress.

Engineering and Operations Committee
Planning Calendar
FY 2021/22

	Item	Department	PowerPoint Presentation (Y/N/L/Length)	Jul 1 Comm	Aug 3 Board	Aug 5 Comm	Aug 17 Board	Sep 2 Comm	Sep 7 Board	Oct 5 Board	Oct 7 Comm	Oct 19 Board	Nov 2 Board	Nov 4 Comm	Nov 16 Board	Dec 7 Board	Dec 9 Comm	Dec 21 Board	Jan 4 Board	Jan 6 Comm	Jan 18 Board	Feb 1 Board	Feb 3 Comm	Feb 15 Board	Mar 1 Board	Mar 3 Comm	Mar 15 Board	Apr 5 Board	Apr 7 Comm	Apr 19 Board	Apr 26 Board	May 12 Comm	May 17 Board	Jun 2 Comm	Jun 7 Board	Jun 21 Board	Jul 5 Board		
1	Monthly Committee Planning Calendar	-	None	C																																			
2	CIP Construction Status Report	OPS	None	C																																			
3	Monthly Operations and Production Report	OPS	None	C																																			
4	Third Party Funded Agreements Quarterly Report	ESS	None																																				
5	Quarterly Safety Program Presentation	OPS	Yes 15 min																																				
6	Annual Safety Program Update (FY 20-21)	OPS	Yes 15 min																																				
7	Fleet Regulatory Update	OPS	Yes 10 min						C																														
8	Review Proposed FY 2022/23 Major Capital Projects	ESS	Yes 10 min																																				
9	Recommend Approval to Authorize General Manager to Execute Reimbursement Agreement with City of Santa Clara for Eligible Portions of Golden Valley Pipeline to New Sheriff Station	ESS	Yes, 10 min	C	C																																		
10	Recommend Approval of a Resolution Awarding a Purchase Order for Additional Final Design Services for Phase 2C South End Recycled Water Main Extension	ESS	Yes, 10 min	C	C																																		
11	Approve a Resolution Authorizing Santa Clara Valley Water Agency to Provide Water Quality Laboratory Testing Services to the State of California Department of Water Resources	OPS	None		C																																		
12	Recommend Approval of Decoro Drive Pavement Repair	OPS	None			C	C																																
13	Recommend Approval of Purchase of IX Resin for the N Wells PFAS Treatment System	ESS	None			C	C																																
14	Recommend Approval of a Three-Year Annual Service Contract for the Liquid Chromatography Tandem Mass Spectrometer (LCMSMS)	OPS	None					C		C																													
15	Recommend Approval of a Resolution for a Construction Contract with NoHo Constructors for the Earl Schmidt Filtration Plant (ESFP) Standby Generator Project	ESS	Yes 10 min								C	C																											
16	Recommend Adopting a Resolution Authorizing SCV Water to Apply for Funding from the Drinking Water State Revolving Fund (DWSRF) and to Execute a Financing Agreement for Groundwater Contamination Treatment Projects with the State Water Resources Control Board	ESS	Yes 10 min								C		C																										
17	Recommend Approval of a Resolution Authorizing the General Manager to Apply for Grant Funding Under the Federal Bureau of Reclamation WaterSmart Water Energy Efficiency Grant Program (WEEG) for an Automated Metering Infrastructure Project	ESS	None											C	C																								
18	Recommend Approval to Purchase Approximately 5,000 AMI Compatible Meters	OPS	None											C	C																								
19	Recommend Adopting a Resolution Authorizing SCV Water to Execute a Financing Agreement with the State Water Resources Control Board for the Los Angeles Residential Community Pipeline Project	ESS	Yes 10 min											C		C																							
20	Recommend Approval of a Resolution Authorizing a Purchase Order to Lee & Ro, Inc. for Final Design Services for Rio Vista Water Treatment Plant (RWVTP) Underground Storage Tank (UST) Replacement Project	ESS	Yes, 10 min											C		C																							
21	Recommend Approval of a Resolution Awarding a Contract for Fairway Water Storage Tank Coating Project	OPS	Yes, 10 min														C	C																					
22	Recommend Adopting a Resolution Authorizing the General Manager to Apply for Grant Funding Under the 2021 Urban and Multibenefit Drought Relief Program and Execute a Grant Agreement with the Department of Water Resources for the Saugus Wells 3 & 4 (Replacement Wells) Well Equipment and Site Improvement Project	ESS	Yes, 10 min															C		C																			
23	Recommend Approval of a Resolution Awarding a Materials Purchase Contract for the Santa Clara and Honby Wells PFAS Groundwater Treatment Project with Aqueous Vets	ESS	Yes, 10 min															C		C																			
24	Recommend Adopting a Resolution Authorizing the General Manager to Apply for Grant Funding Under the 2021 Urban and Multibenefit Drought Relief Program and Execute a Grant Agreement with the Department of Water Resources for the Santa Clara and Honby Wells PFAS Groundwater Treatment Site Construction Project	ESS	Yes 10 min																	C																			

C = Completed Item
P = Planned Item

**Engineering and Operations Committee
Planning Calendar
FY 2021/22**

	Item	Department	PowerPoint Presentation (Y/N/Length)	Jul 1 Comm	Aug 3 Board	Aug 5 Comm	Aug 17 Board	Sep 2 Comm	Sep 7 Board	Oct 5 Board	Oct 7 Comm	Oct 19 Board	Nov 2 Board	Nov 4 Comm	Nov 16 Board	Dec 7 Board	Dec 9 Comm	Dec 21 Board	Jan 4 Board	Jan 6 Comm	Jan 18 Board	Feb 1 Board	Feb 3 Comm	Feb 15 Board	Mar 1 Board	Mar 3 Comm	Mar 15 Board	Apr 5 Board	Apr 7 Comm	Apr 19 Board	Apr 26 Board	May 12 Comm	May 17 Board	Jun 2 Comm	Jun 7 Board	Jun 21 Board	Jul 5 Board		
				42	Recommend Approval to Fund Contractor Change Orders in Excess of Approved 10% Contingency, for the Phase 2B Recycled Water Tanks	ESS	Yes 10 min																																
43	Recommend Approval of Resolution Awarding Construction Contract for Pipeline to Los Angeles Residential Community	ESS	Yes 10 min																																				Moved to FY 2022/23
44	Recommend Approval of Construction of a New Skyline Ranch (Deane Zone) Pump Station and Cost Sharing Agreement with Developer	ESS	Yes 10 min																																			Moved to FY 2022/23	
45	Recommend Approval of Construction of New Skyline Ranch 2.1 MG Tank (Deane Zone) and Cost Sharing Agreement with Developer	ESS	Yes 10 min																																			Moved to FY 2022/23	
46	Recommend Approval of Resolution Authorizing SCV Water to Execute Water Service Agreements with the Los Angeles Residential Community and Lily of the Valley Mobile Village	ESS	Yes 10 min																																			Moved to FY 2022/23	

**Engineering and Operations Committee
Planning Calendar
FY 2022/23**

Item	Department	PowerPoint Presentation (Y/N/Length)	July 7 Comm	Aug 2 Board	Aug 4 Comm	Aug 16 Board	Sept 1 Comm	Sept 6 Board	Sept 20 Board	Oct 4 Board	Oct 6 Comm	Oct 18 Board	Nov 1 Board	Nov 3 Comm	Nov 15 Board	Dec 1 Comm	Dec 6 Board	Dec 20 Board	Jan 3 Board	Jan 5 Comm	Jan 17 Board	Feb 2 Comm	Feb 7 Board	Feb 21 Board	March 2 Comm	March 7 Board	March 21 Board	April 4 Board	April 6 Comm	April 18 Board	May 2 Board	May 4 Comm	May 16 Board	Jun 1 Comm	June 6 Board	June 20 Board	July 4 Board			
1	Monthly Committee Planning Calendar	-	None	P																																				
2	CIP Construction Status Report	OPS	None	P	P	P																																		
3	Monthly Operations and Production Report	OPS	None	P	P	P																																		
4	Third Party Funded Agreements Quarterly Report	ESS	None																																					
5	Quarterly Safety Program Presentation	OPS	Yes 15 min																																					
6	Annual Safety Program Update (FY 21-22)	OPS	Yes 15 min																																					
7	General Report of Easements Report	ESS	Yes 10 min																																					
8	Review Proposed FY 2023/24 Major Capital Projects	ESS	Yes 15 min																																					
9	Cell Sites Program Presentation	ESS	Yes 10 min	P																																				
10	Recommend Approval to Fund Contractor Change Orders in Excess of Approved 10% Contingency, for the Phase 2B Recycled Water Tanks	ESS	Yes 10 min	P	P																																			
11	Approve a Purchase Order to Civitec, Inc. for Change Order No. 1 for Final Design Services for New Deane Zone Tank at Sand Canyon Plaza – Design Prestressed Concrete Tank Instead of Welded Steel Tank	ESS	Yes 10 min	P	P																																			
12	Recommend Adopting a Resolution Authorizing the General Manager to Execute a Reimbursable Agreement with the City of Santa Clarita for the Sierra Highway Bridge Expansion Water Pipelines Protection Project	ESS	Yes 10 min			P				P																														
13	Recommend Approval of Resolution Adopting an Addendum to the EIR and Awarding a Purchase Order for Final Design Services for Magic Mountain Pump Station	ESS	Yes 10 min			P				P																														
14	Recommend Approval of Resolution Adopting an Addendum to the EIR and Awarding a Purchase Order for Final Design Services for Magic Mountain Reservoir	ESS	Yes 10 min			P				P																														
15	Recommend Approval of Resolution Awarding Construction Contract and Purchase Order for Construction Management and Inspection Services for Dickason Drive 14" PVC Replacement	ESS	Yes 10 min							P																														
16	Recommend Approval of Construction of Castaic Well 1 Drain Line	OPS	Yes 10 min							P																														
17	Recommend Approval of Resolution Awarding Construction Contract and Purchase Orders for Construction Management and Inspection Services and Engineering Services During Construction for the Well 201 Groundwater Treatment Project	ESS	Yes 10 min							P																														
18	Recommend Approval of Resolution Authorizing SCV Water to Execute Water Service Agreements with the Los Angeles Residential Community and Lily of the Valley Mobile Village	ESS	Yes 10 min							P																														
19	Recommend Approval of Resolution Awarding Construction Contract for Pipeline to Los Angeles Residential Community	ESS	Yes 10 min							P																														
20	Recommend Approval of Construction of a New Deane Zone 2.1 MG Tank at Skyline Ranch and Cost Sharing Agreement with Developer	ESS	Yes 10 min							P																														
21	Recommend Approval of Construction of a New Deane Zone Pump Station at Skyline Ranch and Cost Sharing Agreement with Developer	ESS	Yes 10 min							P																														
22	Recommend Approval of Construction of New Sand Canyon Plaza (Deane Zone) Pump Station and Cost Sharing Agreement with Developer	ESS	Yes 10 min							P																														
23	Recommend Approval of Resolution Awarding Construction Contract and Purchase Orders for Construction Management and Inspection Services and Engineering Services During Construction for Valencia Market Place Pipeline Improvements	ESS	Yes 10 min																																					
24	Recommend Approval of Resolution Awarding Construction Contract and Purchase Order for Construction Management and Inspection Services for Newhall Tanks 1 and 1A Stair Retrofit	ESS	Yes 10 min																																					
25	Recommend Approval of Resolution Awarding a Purchase Order for Final Design Services for Well 205 Groundwater Treatment Improvements	ESS	Yes 10 min																																					

C = Completed Item
P = Planned Item

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June 2, 2022

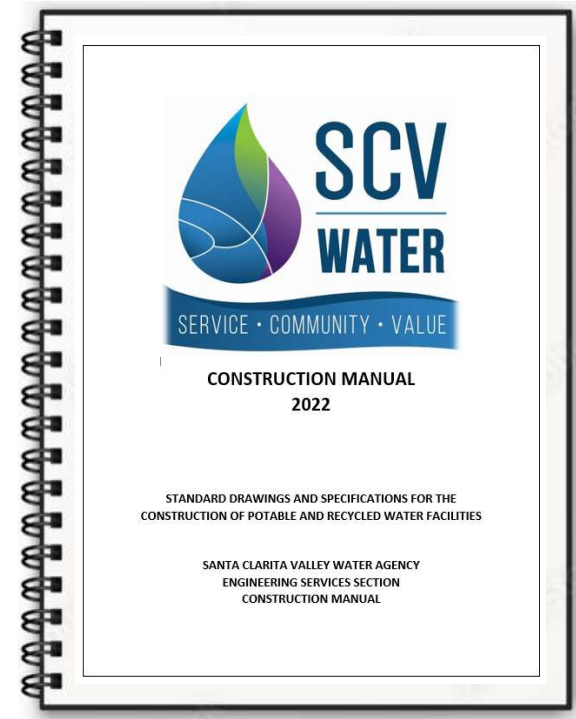
Construction Manual Update

Standard Specifications for Construction

Engineering and Operations Committee
Meeting

Construction Manual

The Santa Clarita Valley Water Agency (SCVWA) Construction Manual contains General Notes, Specifications and Standard Drawings, and Approved Materials List which set minimum standards for working relationships, workmanship, and quality for proposed improvements or additions to the SCVWA potable and recycled water systems.



Construction Manual Update

A team of Engineers, Inspectors, and Operations worked together over the course of 18 months to revise Agency Standards with the goal of ensuring the construction of a reliable, easily maintained water system that would cut back on water loss and customer outages.

Goals:

- Identify best practices for pipeline installation
- Identify materials that are practical, cost effective, and have a long useful life expectancy



Approach

- Recent practical experience from major boom of new development in the Santa Clarita Valley
- Comparing best practices to other water agencies throughout California
- Provide additional clarity for AWWA standards and regulations enforced by the Division of Drinking Water

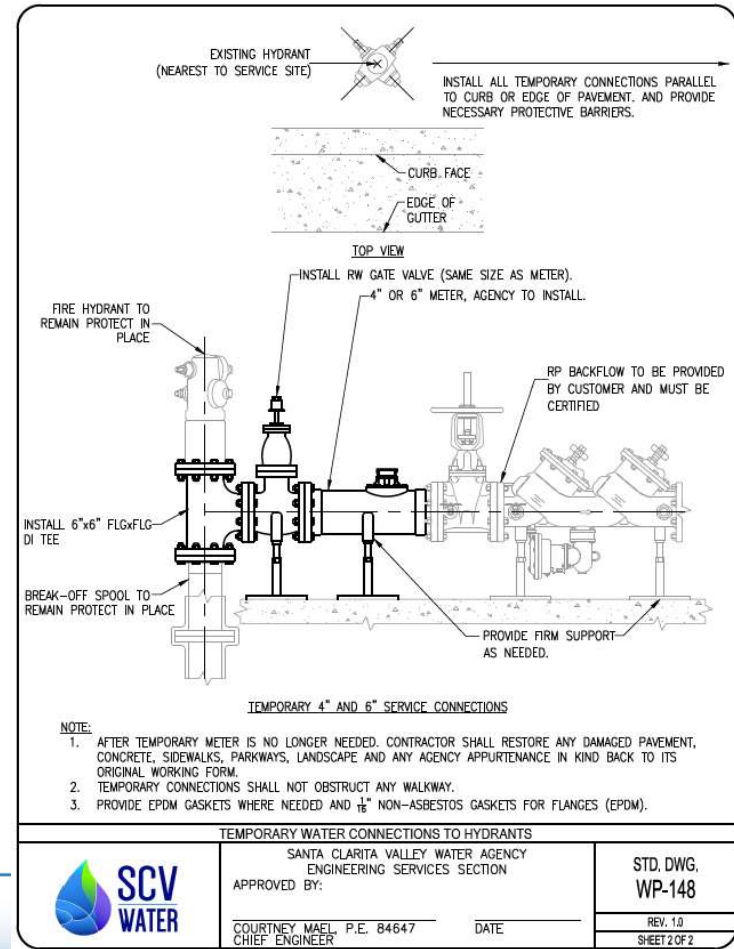
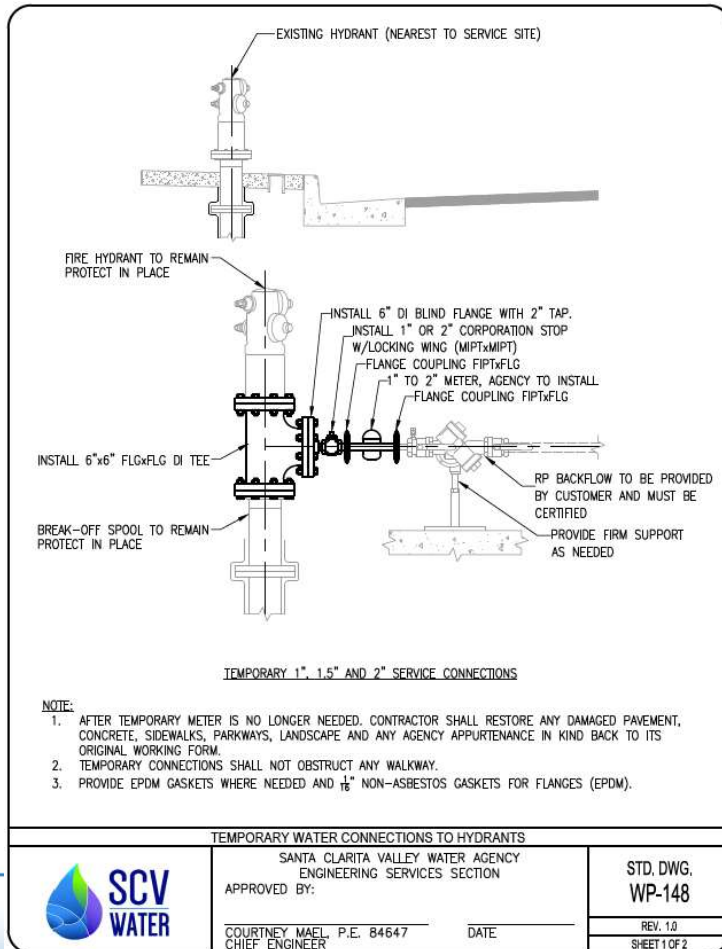


Updates

Construction Manual	
Previous Version (2019)	Updated Version (2022)
51 General Notes	37 General Notes
51 Standard Specifications	70 Standard Specifications
51 Standard Drawings	67 Standard Drawings

- More detailed testing and disinfection procedures
- Additional standard drawings to be used as guidelines to build agency infrastructure
- Standards on acceptable materials, material storage, and recycled water

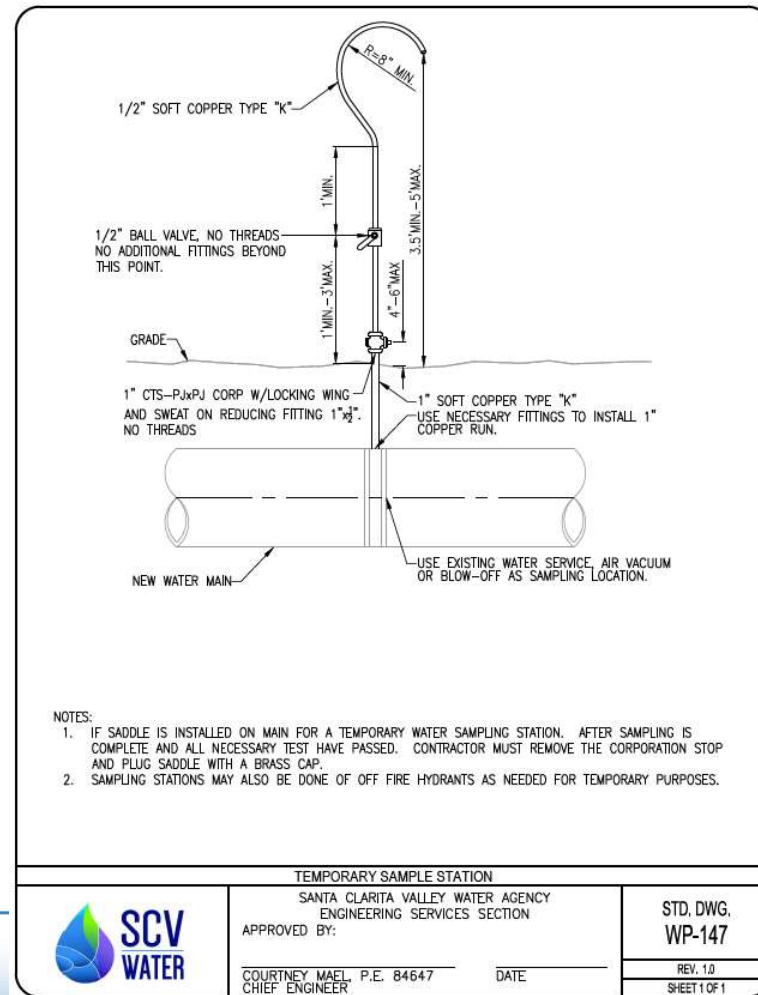
Example WP 148 - Temporary Water Connection to Hydrants



Example - WP 103 Fire Hydrant Assembly



Example WP 147 Temporary Sample Station



Future Updates

The Engineering Services Section intends to update the manual as needed to ensure continuous use of best practices and technology, and to meet standards for new or changing regulations.

Immediate Goals

- Standards for Pump & Tank Facilities
- Guidelines for Water Tank Reservoir Management System

