



NOTICE AND CALL OF RESCHEDULED MEETING

Notice is hereby given that I, William Cooper, Chair of the Engineering and Operations Committee, have called a RESCHEDULED MEETING of the Agency's Engineering and Operations Committee.

Said RESCHEDULED MEETING of the Committee to be held on:

WEDNESDAY, JULY 1, 2020 AT 5:30 P.M.

Santa Clarita Valley Water Agency
held via Teleconference

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

Signed: William Cooper
William Cooper, Chair *W.C.*

Date: 6/20/2020

Posted on June 25, 2020

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Date: June 23, 2020

To: **Engineering and Operations Committee**
William Cooper, Chair
Ed Colley
Robert DiPrimio
Jeff Ford
Gary Martin
Lynne Plambeck

From: Keith Abercrombie, Chief Operating Officer 

A rescheduled meeting of the **Engineering and Operations Committee** is scheduled to meet via teleconference on **Wednesday, July 1, 2020 at 5:30 PM**, dial in information is listed below.

**TELECONFERENCE ONLY
NO PHYSICAL LOCATION FOR MEETING**

TELECONFERCING 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 1-877-568-4106 Access Code 642-328-461** **or GoToMeeting by clicking on the link <https://global.gotomeeting.com/join/642328461>** 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.

RESCHEDULED 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 Final Design Purchase Order for Kennedy Jenks Consultants for the Valley Center Well PFAS Groundwater Treatment Project	1
3. *	Recommend Approval of a Resolution for a Construction Contract with W.A. Rasic Construction Company, Inc. for the Westridge Recycled Water Tank Upgrades Potable Make-up Above Ground Piping Project	13
4. *	Recommend Approval of (1) a Resolution for a Construction Contract to Best Drilling and Pump, Inc., (2) a Purchase Order to Richard C. Slade & Associates LLC for Inspection and Engineering Services during Construction and (3) a Purchase Order to Black & Veatch Corporation for Construction Management Services for the Replacement (Saugus 3 and 4) Wells Construction Project	25
5. *	Recommend Approval of a Resolution for a Purchase Order to Lee & Ro for Design Engineering Services for the Replacement (Saugus 3 and 4) Well Site and Infrastructure Project	49
6. *	Construction Update on the West Ranch Recycled Water Main Extension (Phase 2D) Project	71
7. *	Operations and Production Report	77
8. *	Capital Improvement Projects Construction Status Report	135
9. *	Committee Planning Calendar	137
10.	General Report on Treatment, Distribution, Operations and Maintenance Services Section Activities	
11.	General Report on Engineering Services Section Activities	
12.	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 June 25, 2020.

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COMMITTEE MEMORANDUM

DATE: July 1, 2020

TO: Engineering and Operations Committee

FROM: Keith Abercrombie 
Chief Operating Officer

SUBJECT: Recommend Approval of a Final Design Purchase Order for Kennedy Jenks Consultants for the Valley Center Well PFAS Groundwater Treatment Project

SUMMARY

In response to a March 2019 Order issued by Division of Drinking Water (DDW), SCV Water (the Agency) collected groundwater samples from a number of its wells and received water quality results for a suite of chemicals referred to as per- and polyfluoroalkyl substances (PFAS). There are currently no regulatory standards for PFAS. However, DDW has issued health advisory levels referred to as Notification Levels (NL) and Response Levels (RL). NLs have been established for two PFAS chemicals, perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS) and an RL for the combined concentration of PFOA and PFOS. In August 2019, DDW revised the NLs for both PFOA and PFOS. The RL was revised on February 6, 2020.

The RL revisions resulted in several wells being taken offline. Staff has identified Valley Center Well as a prime candidate for PFAS removal which will allow the Agency to regain some of the lost groundwater production capacity back into service. Staff is aggressively pursuing design, and installation of this treatment facility (treatment facility rendering in attached presentation) to return this well back into service by summer of 2021. Staff is asking for Board approval to approve a purchase order for Kennedy Jenks Consultants (KJ) to provide Final Design Services.

DISCUSSION

The Valley Center Well is located at 26715 Valley Center Drive. The Agency owns and operates this well which has a capacity of up to 1,200 gallons per minute. Recent water quality sampling at the Valley Center Well indicates elevated concentrations of PFAS that currently exceeds DDW's Response Level (RL) for PFOA of 10 ppt, and has historically exceeded the RL for PFOS of 40 ppt. In response, the Agency decided to shut down the well until necessary PFAS treatment is constructed. The Agency assessed PFAS treatment alternatives and requirements for the Valley Center Well and has developed a Preliminary Design to implement Ion Exchange (IX) treatment at the well site.

Final Design Services are the next step for the Agency for implementation of PFAS treatment at the Valley Center Well. As a result of the critical need for the Agency to use their groundwater supplies and return the Valley Center Well to production, Final Design Services are expected to utilize the design criteria basis developed in the Preliminary Design to efficiently bid and procure equipment and construction services such that the treatment can be implemented and the well be returned to operations in summer 2021. Staff is recommending KJ to provide Final Design Services for the treatment facility.

CEQA DETERMINATION

The proposed action today is authorization to prepare a final design for this project. The whole of the action also includes construction and operation of the project. The term "project" in CEQA refers to the whole of an action and to the underlying activity being approved, not to each governmental approval. (CEQA Guideline §15378(a), (c)–(d).) This definition ensures that the action reviewed under CEQA is not the approval itself but the development or other activities that will result from the approval.

The Treatment System will consist of 2 tanks (approx. 12' diameter, 17' height), associated cartridge filters, piping, booster pumps, a chloramination disinfection facility housed within an approximate 15 ft by 25 ft open shade structure, along with associated electrical, SCADA, and water quality measuring equipment. The vessels will be loaded with Ion Exchange Resin which will trap the contaminants via adsorption. The treatment system will treat up to 1,200 gpm of instantaneous flow. The treatment is needed since the chemical group PFAS, has begun to be regulated, and these wells have had detections of these chemicals, which has led to our inability to use said wells without treatment. A portion of the facility's block wall will be reconfigured to enclose additional equipment.

The discharge line outfalls are within an existing rap bank approximately 70 feet from the Santa Clara River that is dry most of the time. During normal operations the primary discharge at the site will occur when the wells are started up and the well water is discharged to waste prior to sending water through the treatment and distribution system. For well start-up the pump to waste duration is approximately 2-3 minutes at a rate of 1,200 gallons per minute. At a well-shut down/start up frequency of once per month, the total annual volume of discharge is approximately 28,800 to 43,200 gallons.

Based on the preliminary project design and anticipated final design, and because the project construction is a minor alteration limited to construction within the Agency's existing facility property, construction and operation of this project to be categorically exempt under the provisions of CEQA and the State CEQA Guidelines as described below:

- The project, aka the whole of the action, qualifies for an exemption under CEQA guidelines section 15301 Class 1 Minor Alterations to Existing Facilities because it is a minor alteration of an existing public facility and it concerns proposed new mechanical equipment involving negligible or no expansion of use, i.e. no additional extraction of water, beyond that existing at the time of the lead agency's determination.
- The project, aka the whole of the action, also qualifies for an exemption under CEQA guidelines section 15303 Class 3 New Construction or Conversion of Small Structures because the project construction is limited to construction within SCV Water's existing facility property.
- None of the exceptions listed in Section 15300.2 of the CEQA Guidelines would apply to the action. In particular, a biological resources survey was conducted, and no special status species were observed. Based on discharge rate and duration, the well discharge will not create flowing water in the river sufficient to reach the closest unarmored three spine stickleback occupied habitat downstream. This finding is supported by the biological resources assessment prepared for the project.

FINANCIAL CONSIDERATIONS

The Project is included in the Agency's FY 2020/21 Capital Improvement Budget for the Valley Center Well PFAS Groundwater Treatment Project. The final design work would be performed on a time and expense basis with a design budget of \$250,000. In addition, the Agency is actively seeking grant funding to offset project costs.

RECOMMENDATION

The Engineering and Operations Committee recommends that the Board of Directors authorize the General Manager to execute a purchase order with Kennedy Jenks Consultants for an amount not to exceed \$250,000 for final design engineering services for the Valley Center Well PFAS Groundwater Treatment Project.

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Attachment

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July 1, 2020

Valley Center Well PFAS Groundwater Treatment Project

Engineering and Operations
Committee Meeting

Valley Center Well PFAS Groundwater Treatment Project Location Map



YOURSCVWATER.COM



Valley Center Well PFAS Groundwater Treatment 3-D Rendering



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Valley Center Well PFAS Groundwater Treatment 3-D Rendering



YOURSCVWATER.COM



Valley Center Well PFAS Groundwater Treatment Design Team

- Kennedy Jenks (KJ) designed the N-Wells PFAS Treatment Project
- KJ prepared Preliminary Design for the site
- KJ submitted a Final Design Proposal (Fee of \$250,000)



Valley Center Well PFAS Groundwater Treatment Anticipated Project Schedule

- Final Design Phase:
 - ✓ July 1, 2020: Engineering & Operations Committee
 - ✓ August 4, 2020: Board Meeting
 - ✓ August 5, 2020: Issue Notice To Proceed to Kennedy Jenks
 - ✓ November 30, 2020: Complete Final Design



Valley Center Well PFAS Groundwater Treatment Project Recommendation

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

- Authorize the General Manager to issue a Purchase Order to Kennedy Jenks for the Final Design of the Valley Center Well PFAS Groundwater Treatment Project for an amount not to exceed \$250,000.



Questions






COMMITTEE MEMORANDUM

DATE: July 1, 2020

TO: Engineering and Operations Committee

FROM: Keith Abercrombie
Chief Operating Officer 

SUBJECT: Recommend Approval of a Resolution for a Construction Contract with W.A. Rasic Construction Company, Inc. for the Westridge Recycled Water Tank Upgrades Potable Make-up Above Ground Piping Project

SUMMARY

The Westridge Recycled Water Tank Upgrades Potable Make-up Above Ground Piping Project has been advertised for construction bids. Bids have been received and staff is recommending award of a construction contract to W.A. Rasic Construction Company, Inc.

DISCUSSION

The Agency's Capital Improvement Program includes the development and construction of a recycled water system. The Recycled Water Tank Upgrades Potable Make-up Above Ground Piping Project consists of modifications to the existing recycled water tank, installation of an above ground steel pipe with appurtenances, and construction of a driveway.

The project will serve two main purposes:

- Serve as a potable backup source in an event the 20-inch recycled water pipeline which feeds the tank gets severed or recycled water becomes unavailable at the Valencia Water Reclamation Plant.
- Supply potable make-up water to support the Agency's New Drop Initiative.

The Project has been advertised in accordance with SCV Water (Agency)'s Purchasing Policy, with notices in *The Signal* on three different dates and on the Agency's website. On May 27, 2020, two bids were received electronically on PlanetBids and opened. A summary of the bids is presented below:

Bidder	Bidder Location	Total Bid Price
W.A. Rasic Construction Company, Inc.	Long Beach, CA	\$475,810
GSE Construction Inc.	Livermore, CA	\$536,700

The apparent lowest responsive bid is from W.A. Rasic Construction Company, Inc. for a total of \$475,810. The engineer's estimate for the project is \$372,597. W.A. Rasic Construction Company, Inc. is a licensed Class A General Engineering Contractor in California and is registered with the Department of Industrial Relations.

CEQA DETERMINATION

The proposed action is authorization of a construction contract for the Westridge Recycled Water Tank Potable Make-Up Above Ground Piping Project. The Project, aka the whole of the action, qualifies for an exemption under Class 1 Existing Facilities because it is a minor alteration of an existing public facility and it concerns proposed new mechanical equipment involving negligible or no expansion of use, i.e. no additional delivery of water, beyond that existing at the time of the lead agency's determination.

None of the exceptions listed in Section 15300.2 of the CEQA Guidelines would apply to the action. The project environment is located within the paved public right of way, compacted earth parkway and driveway as well as within SCV Water's existing facility property.

FINANCIAL CONSIDERATIONS

The Project is included in the Agency's FY 2019/20 and FY 2020/21 Capital Improvement Budget for the West Ranch Recycled Water Main Extension (Phase 2D) Project. The Project's total estimated cost, including planning, design, construction management, construction, inspection and miscellaneous costs, is \$4,700,000. This Project is expected to receive \$1,806,900 in grant funding from Proposition 84 Integrated Regional Water Management (IRWM) Round 1 Implementation Program Grant funds from the State of California Natural Resources Agency, Department of Water Resources.

RECOMMENDATION

That the Engineering and Operations Committee recommends that the Board of Directors approve the attached resolution for a construction contract with W.A. Rasic Construction Company, Inc. in an amount not to exceed \$475,810 for the Westridge Recycled Water Tank Upgrades Potable Make-up Above Ground Piping Project.

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RESOLUTION NO. SCV-XXX

**RESOLUTION OF THE BOARD OF DIRECTORS
OF THE SANTA CLARITA VALLEY WATER AGENCY
AWARDING A CONSTRUCTION CONTRACT TO
W.A. RASIC CONSTRUCTION COMPANY, INC. FOR THE
WESTRIDGE RECYCLED WATER TANK UPGRADES POTABLE MAKE-UP ABOVE
GROUND PIPING PROJECT**

WHEREAS, Santa Clarita Valley Water Agency (SCVWA) determined that recycled water is an important component of future water supplies; and

WHEREAS, the Westridge Recycled Water Tank Upgrades Potable Make-up Above Ground Piping Project is a component of the Recycled Water System; and

WHEREAS, the proposed action is authorization of a construction contract for the Westridge Recycled Water Tank Potable Make-Up Above Ground Piping Project; and

WHEREAS, the Project, aka the whole of the action, qualifies for an exemption under Class 1 Existing Facilities because it is a minor alteration of an existing public facility and it concerns proposed new mechanical equipment involving negligible or no expansion of use, i.e. no additional delivery of water, beyond that existing at the time of the lead agency's determination; and

WHEREAS, none of the exceptions listed in Section 15300.2 of the CEQA Guidelines would apply to the action; and

WHEREAS, all bid proposals submitted to the SCVWA pursuant to the SCVWA's construction contract documents for the construction of the Westridge Recycled Water Tank Upgrades Potable Make-up Above Ground Piping Project, as amended by Addenda, were publicly opened and read electronically on the SCVWA's website page on PlanetBids on Wednesday, May 27, 2020 at 2:00 p.m., in full accordance with the law and the SCVWA's customary procedures; and

WHEREAS, the Board of Directors finds, after considering the opinion of staff, that the total bid of W.A. Rasic Construction Company, Inc. in the amount of \$475,810 is the lowest responsible bid of two bids submitted, and that said bid substantially meets the requirements of said construction contract documents as amended by Addenda; and

WHEREAS, it is in the Agency's best interest that the Board of Directors, on behalf of the SCVWA, authorize its General Manager to accept the \$475,810 bid.

NOW, THEREFORE, BE IT RESOLVED that the SCVWA's Board of Directors does authorize its General Manager to accept said low bid and does therefore authorize the SCVWA's General Manager or its Chief Operating Officer to issue a Notice of Award to W.A. Rasic Construction Company, Inc., hereby found to be the "lowest responsible bidder" for the Westridge Recycled Water Tank Upgrades Potable Make-up Above Ground Piping Project for the total sum of \$475,810.

RESOLVED FURTHER that the SCVWA's General Manager or its President and Secretary are thereupon authorized, upon receipt of appropriate payment and performance bonds, appropriate certificates of insurance and an executed Contract Agreement from W.A. Rasic Construction Company, Inc., all of which must be approved by General Counsel, to execute the said Contract Agreement on behalf of the SCVWA.

RESOLVED FURTHER that the SCVWA's General Manager or Chief Operating Officer are thereafter authorized to execute and forward to W.A. Rasic Construction Company, Inc. an appropriate Notice to Proceed.



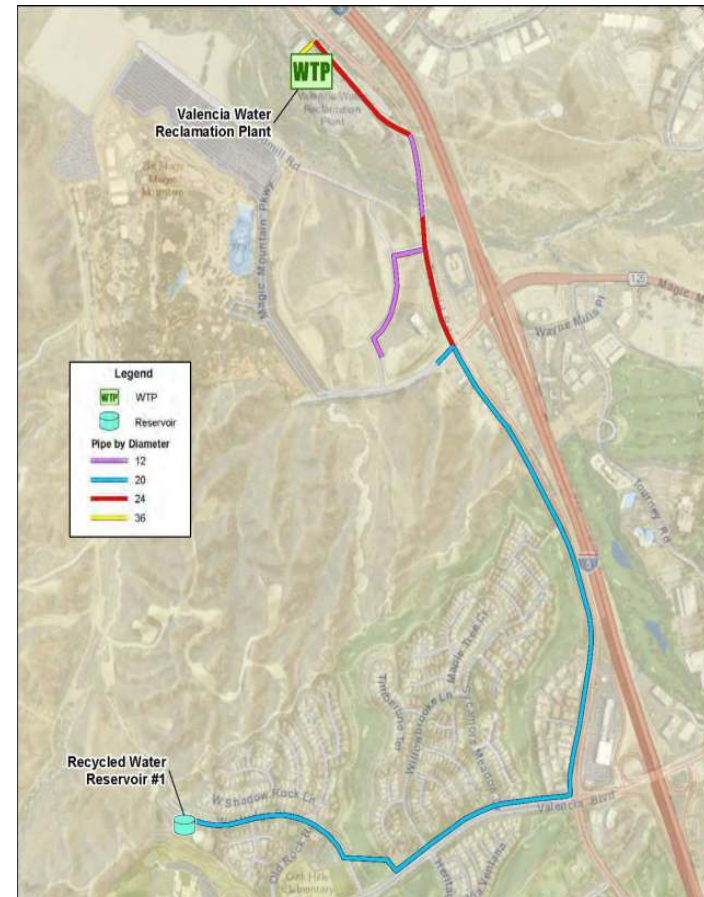
July 1, 2020

Westridge Recycled Water Tank Upgrades Potable Make-up Above Ground Piping Project

Engineering and Operations
Committee Meeting

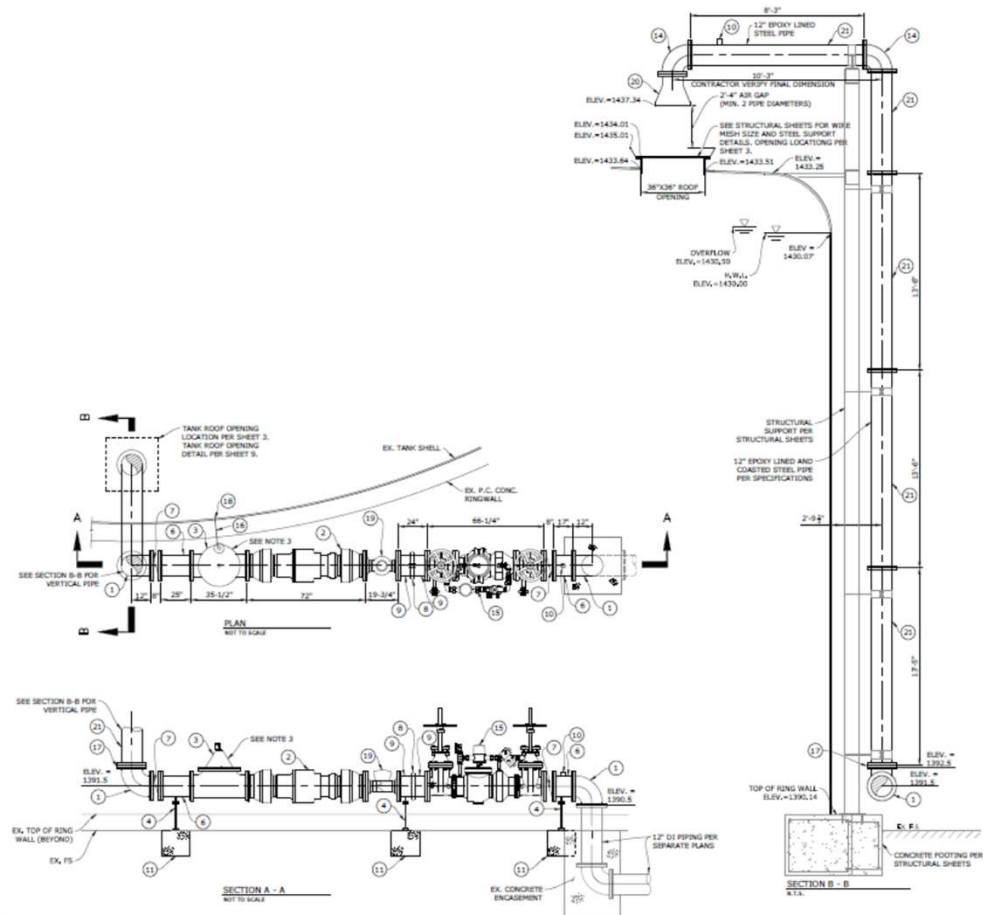
Phase 1 Recycled Water System

- 15,600 L.F. Steel and DIP
- 4,000 gpm Pump Station
- 1.5 MG Tank
- 13 existing irrigation meters
- ~450 - 550 AFY
of existing irrigation demands



Westridge Recycled Water Tank Potable Make-up line

- Provide a back-up water source
- Introduce potable make-up water to support the New Drop Initiative



Westridge Recycled Water Tank Upgrades Potable Make-up Above Ground Piping Project May 27, 2020 Bid Opening Results

<u>Rank</u>	<u>Bidder</u>	<u>Bid Amount</u>
1	W.A. Rasic Construction Company, Inc.	\$475,810
2	GSE Construction Company, Inc.	\$536,700

- Engineer's Estimate: \$372,597
- Prop 84 Grant Funds ~ \$1.8M



Westridge Recycled Water Tank Upgrades Potable Make-up Above Ground Piping Project Anticipated Project Schedule

- Construction Award Phase:
 - ✓ July 1, 2020: Engineering & Operations Committee
 - ✓ August 4, 2020: Board Meeting
- Construction Phase:
 - ✓ August 10, 2020: Notice to Proceed
 - ✓ August 17, 2020 to January 13, 2021: Construction Phase (150 calendar days)



Westridge Recycled Water Tank Upgrades Potable Make-up Above Ground Piping Project Project Recommendation

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

- Adopt the resolution awarding a construction contract to W.A. Rasic Construction Company Inc. for the Westridge Recycled Water Tank Upgrades Potable Make-up Above Ground Piping Project for \$475,810



Questions?


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COMMITTEE MEMORANDUM

DATE: June 25, 2020

TO: Engineering and Operations Committee

FROM: Keith Abercrombie 
Chief Operating Officer

SUBJECT: Recommend Approval of (1) a Resolution for a Construction Contract to Best Drilling and Pump, Inc., (2) a Purchase Order to Richard C. Slade & Associates LLC for Inspection and Engineering Services during Construction and (3) a Purchase Order to Black & Veatch Corporation for Construction Management Services for the Replacement (Saugus 3 and 4) Wells Construction Project

SUMMARY

Replacement (Saugus 3 and 4) Wells Construction Project has been advertised for construction bids. Bids have been received and staff is recommending approval of a construction contract to Best Drilling and Pump, Inc. Staff is also recommending approval of a purchase order to Richard C. Slade & Associates LLC (Slade) for Inspection and Engineering Services during Construction, and a purchase order to Black & Veatch Corporation (Black & Veatch) for construction management services.

DISCUSSION

SCV Water’s (Agency) Capital Improvement Program includes construction of new production wells that will replace capacity lost from wells that were shut down in 1997 because of perchlorate contamination. Construction of the Replacement (Saugus 3 and 4) Wells Project, which consists of three parts: 1) two new wells just west of Magic Mountain amusement park, 2) site preparation and infrastructure 3) and a pipeline to convey the water along Commerce Center Drive to the Magic Mountain Parkway Pipeline.

The Project will consist of constructing two wells with a capacity of 2,000 gallons per minute each most likely drilled to depths ranging between 2,000 and 3,000 feet below ground surface. Major tasks will include pilot hole drilling, downhole geophysical surveying, Isolated aquifer zone testing, pilot hole ream, caliper & deviation surveys, well casing, louvers & access tubes, pilot hole bottom & inter-annular seals, gravel Pack, annular grout seal, well casing alignment testing, standby time, mechanical well development, chemical development, color video surveys temporary test pump, and pumping development. The Agency solicited construction bids on March 17, 2020.

On June 3, 2020, three bids were received. A summary of the bids is presented below:

Bidder	Bidder Location	Total Bid Price
Best Drilling and Pump, Inc.	Colton, CA	\$5,615,052
Zim Industries	Fresno, CA	\$7,418,130
Layne Christensen	Redlands, CA	\$9,557,720

Agency staff evaluated the submitted bids. The apparent responsive low bid was from Best Drilling and Pump, Inc. (Best) for a total of \$5,615,052. The engineer's estimate for the project is \$6,105,490. Best is a licensed Class A contractor in the State of California and is registered with the Department of Industrial Relations.

Slade performed the design and prepared the specifications and will need to work with the contractor to finalize the design and inspect the well construction.

Staff solicited proposals for construction management services and received two proposals. Staff is recommending Black & Veatch for the work. The general scope of work includes providing inspection, overall construction coordination and material testing. Staff will facilitate division of responsibilities between Black & Veatch and Slade so that there will be no duplication of effort.

CEQA Determination

The proposed action is the construction of new production wells to replace capacity lost from wells that were shut down in 1997 because of perchlorate contamination, and the proposed action was previously evaluated by the Castaic Lake Water Agency's (CLWA) Board of Directors. On September 14, 2005, CLWA, as the lead agency under CEQA, adopted the Mitigated Negative Declaration for the Groundwater Containment, Treatment, and Restoration Project (MND) and adopted findings and the Mitigation Monitoring and Reporting Programs with the adoption of Resolution No. 2429. CLWA filed the Notice of Determination with the Los Angeles County Clerk's Office and the State Clearinghouse (SCH No. 2005081053) on September 19, 2005.

As a result of the integration of CLWA into the Agency pursuant to SB 634, the Agency is now the lead agency under CEQA for the Replacement (Saugus 3 and 4) Wells Construction Project. In its role as lead agency, the Agency has now evaluated the adopted MND pursuant to CEQA Guideline 15162 to determine if, when taking subsequent discretionary actions in furtherance of a project for which an MND has been adopted, the Agency is required to review any changed circumstances to determine whether any of the circumstances under Public Resources Code Section 21166 and CEQA Guidelines Section 15162 require additional environmental review.

Based on that evaluation, and given that the proposed Project has been only slightly modified, SCVWA staff concluded that the MND fully analyzed and mitigated all potentially significant environmental impacts, if any, that would result from the Project, and therefore, no subsequent EIR or mitigated negative declaration is required.

FINANCIAL CONSIDERATIONS

Best's construction bid is \$5,615,052. Slade's budget for engineering during construction and inspection services is an amount not to exceed \$343,000. Black & Veatch's budget for construction management is an amount not to exceed \$592,000. Both Slade and Black & Veatch's services will be performed on a time and materials basis.

This project is funded in the Agency's Biennial Budget for FY 2019/2020 and FY 2020/2021 as part of the \$11,161,000 Replacement (Saugus 3 and 4) Wells Project. The Commerce Center Drive Pipeline project's total estimated cost, including engineering, construction management, construction, and inspection costs, is \$6,549,093. As of May 31, 2020, the Replacement (Saugus 3 and 4) Wells project's total expenses are \$505,105. The first \$8.3 million of the

project will be funded by Whittaker Corporation, consistent with terms of Castaic Lake Water Agency Litigation Settlement Agreement and amendments related to perchlorate contamination.

RECOMMENDATION

That the Engineering and Operations Committee recommends that the Board of Directors (1) approve the attached resolution awarding funding in an amount not to exceed \$5,615,052 for construction costs to Best Drilling and Pump, Inc., (2) authorize the General Manager to issue a purchase order for an amount not to exceed \$343,000 for engineering during construction and inspection services to Richard C. Slade & Associates LLC and (3) issue a purchase order for an amount not to exceed \$592,000 for construction management services to Black & Veatch for the Replacement (Saugus 3 and 4) Wells Construction Project.

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Attachments

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**Mitigation and Monitoring Plan
Castaic Lake Water Agency
Groundwater Containment, Treatment, and Restoration Project**

This Mitigation and Monitoring Plan (MMP) specifies mitigation actions and monitoring and reporting requirements for the *Castaic Lake Water Agency Groundwater Containment, Treatment, and Restoration Project*, consistent with the project Initial Study and Final Mitigated Negative Declaration. For each action or class of actions identified in the above documents, this plan specifies the following:

- The required action
- The schedule
- The party responsible for implementing the action
- The required reports
- The entity to receive reports

For ease of use, the MMP is presented in tabular format. Adoption of this Mitigation and Monitoring Plan constitutes a commitment by Castaic Lake Water Agency (CLWA) to comply with and fund the required mitigation and monitoring. At its discretion, CLWA will implement the MMP through construction contractors and other independent contractors, as noted. In all cases, CLWA's Project Manager and/or designated compliance staff will routinely audit contractor compliance with the requirements of the MMP.

In general, construction contractors will implement aspects of the MMP related to the acquisition and compliance with construction permits from the City of Santa Clarita, the County of Los Angeles, and the State of California. If it is determined that such plans are required, this may include preparation of construction plans such as the State of California Storm Water Pollution Prevention Plan. CLWA's primary role in these efforts will be to require these activities as part of the scope of work for each construction project and contract, to review plans and specifications, to periodically conduct compliance audits to ensure that contractors are acting in accordance with their plans, and to maintain records of all compliance activities and reports. CLWA may independently contract for specialized compliance monitoring, such as monitoring related to biological and cultural resources; these independent monitors will work with construction contractors to ensure compliance with mitigation and monitoring plan requirements. The MMP is thus organized to make the responsibilities of CLWA, design engineers, construction contractors, and independent contractors clear, and thus focuses on the actions required by each entity.

Table MMP-1. Mitigation and Monitoring Commitments Checklist (R = Review, C = Specify requirement in construction contract, A = Compliance Action, RP = Reporting Requirement, I = Inspect, M = Maintain during operation, NA = not applicable)

Impact Category	Mitigation Measure (See Initial Study for details)	Responsible Parties and Role			
		CLWA	Design Contractor	Construction Contractor	Independent Contractor
Aesthetics	Design and construct Treatment Plant to be consistent with Rio Vista Intake Pump Station	RC	A	AR	NA
	Landscape proposed treatment facility along the bike trail	RC	A	AR	NA
	Ensure Treatment Plant lights are directed away from bike trail	RC	A	AR	NA
	Contain wells in structures and landscape	RC	A	AR	NA
Air Quality	Comply with SCAQMD Rule 403	RI	NA	AR	NA
	Comply with SCAQMD Rule 1179 (b) (6)	RI	A	AR	NA
Biological Resources	Install automatic shut off valves in perchlorate pipeline to ensure pipeline shut down if pipeline is damaged during operation	RIM	A	AR	NA
	Schedule construction along south bank of Santa Clara River and Bouquet Canyon Road for September 1-February 1	RC	NA	AR	NA
	For construction outside of the September 1-February 1, survey weekly for raptor nests 30 days prior to initiation of construction.	RC	NA	NA	AR
	If nests are found within 300 feet of construction area (500 feet for raptors), suspend construction until nests are empty, young have fledged, and there is no evidence of new nesting activity	RC	NA	AR	AR
	Flag construction areas to clearly mark off-limits areas at 300-foot and 500-foot from active nests	RC	NA	AR	AR
	Survey for bats under the Bouquet Canyon Bridge. If bats are located, impacts may be avoided by scheduling work during the non-nesting season (after September 1 and before March 1). Bats leaving the structure at night may then be excluded from returning to the bridge with fine mesh. CLWA will consult with CDFG during implementation of such impact avoidance measures.	RC	NA	AR	AR
	Develop and conduct a CDFG and USFWS training program for workers along the south bank of the Santa Clara River and Bouquet Canyon Road; post species information at the site	RC	NA	AR	AR

	Following biological survey to confirm no special status species at the construction site, install fine-mesh drift fence along boundary between river and construction site along the south bank of the Santa Clara River and Bouquet Canyon Road	RC	NA	AR	AR
	For installation of pipelines at Bouquet Canyon Road bridge, comply with CDFG 1600 permit requirements. Specifically: a. All construction will be done in dry conditions; b. Construction equipment will access the river bed via an area without native riparian vegetation; c. Construction equipment fueling and maintenance will be performed outside of the riverbed or if necessary these activities will be performed using containment vessels; d. Spills of fuel or other materials used during construction will be immediately reported and cleaned up in accordance with rules of the Regional Water Quality Control Board.	RC	NA	AR	AR
	To the extent feasible, along Mainstem and South Fork of Santa Clara river, use landward right-of way for side casting of spoil and for construction laydown and vehicle fueling and maintenance to isolate these activities from the river.	RC	NA	AR	AR
Cultural Resources	Where there is potential to encounter buried cultural resources (roads and trails along the South Fork of the Santa Clara River): a. Prior to construction, train construction personnel regarding recognition of buried cultural remains and establish procedures to halt construction immediately and notify qualified archeologist. b. In areas near a known cultural resource site, a qualified archeologist shall monitor construction. If resources are found, initiate consultation with the State Historic Preservation Office. c. Comply with Department of Health Services requirements for treatment of buried human remains.	RC	NA	AR	AR
Geology and Soils	Install automatic shut off valves in perchlorate pipeline to ensure pipeline shut down if pipeline is damaged during operation	RIM	A	AR	NA
	On-going monitoring of Treatment Plant operation	A	NA	NA	NA
	Provide secondary containment vessels for hazardous treatment plant chemicals	AIM	A	AR	NA
Hazards and	Design, construct, and operate to provide for best management	AIM	A	AR	NA

Hazardous Materials	practices for handling of chemicals at chloramination facilities				
	Provide secondary containment vessels for hazardous treatment plant chemicals	AIM	A	AR	NA
	During construction, comply with City of Santa Clarita policies related to emergency response plans or evacuation plans	RC	NA	A	NA
	Comply with City of Santa Clarita Encroachment Policy and County of Los Angeles Code, Division 1, Title 16 (where appropriate) regarding trench backfill and covering	RC	NA	AR	NA
Hydrology and Groundwater Quality	Contain construction-site drainage and sediments: a. Daily pre-construction equipment inspections to detect and repair leaks b. Use of secondary containment for fueling and chemical storage areas c. Use of secondary containment for equipment wash water d. Use of silt traps or basins to control runoff e. Cover stockpiles to prevent runoff f. Protect loose soils areas from potentially erosive runoff g. For construction in the river channel, equipment shall be fitted with secondary containment materials at potential oil/fuel leakage sites.	RCI	NA	AR	NA
	Prepare a <i>Storm Water Pollution Prevention Plan</i> if required	RC	NA	AR	NA
Noise	For construction adjacent to housing, comply with City of Santa Clarita Noise ordinances: a. Permanent above-ground facilities (wells and treatment plant) will be contained in structures to ensure adjacent noise levels are below levels established for facilities in commercial and manufacturing areas; b. Limit construction to the period 7 am to 7 pm; c. Monitor noise levels adjacent to housing and if levels at adjacent housing exceed City Noise Ordinance permitted levels (65 dBA), install temporary noise attenuation barriers	RC RC	A A	AR AR	NA NA
Recreation	No more than one segment of bike trail will be affected at any time	RC	NA	AR	NA
	Detours around the construction zone will be as short as possible and temporary. As part of this action, post and maintain	RC	NA	AR	NA

	signage related to trail closures and detours.				
Transportation and Traffic	<p>Comply with City of Santa Clarita Encroachment Permit Policy and/or County of Los Angeles Public Works Encroachment Permit requirements, County Code Division 1, Title 16</p> <p>As feasible, limit construction related truck trips on state highways to off-peak commute periods.</p> <p>Obtain Caltrans Transportation Permit for transport of oversized or over-weight vehicles on State highways.</p> <p>Avoid excessive or poorly timed truck platooning.</p>	RC	NA	AR	NA

Table MMP-2. Mitigation and Monitoring Responsibilities

1. CLWA Responsibilities (CLWA Compliance Manager and/or Project Manager)			
Action	Schedule	Required Reports	Report provided to:
Assign a staff person (compliance manager) to oversee compliance with the commitments of the Initial Study and Mitigated Negative Declaration.	Prior to issuing construction contracts	None	None
Incorporate monitoring requirements in construction contracts and scopes of work	Prior to issuing contracting documents	Memo Record of Review	PM
Review Designs and Specifications to ensure that mitigation commitments related to design and construction are met	Prior to approving designs and specifications	Memo Record of Review	PM
Review project schedule to ensure that mitigation commitments related to scheduling are met	Prior to approving schedule	Memo Record of Review	PM
Periodic inspection of contractor compliance records	On-going	Memo Record of Review	PM
Contracting for independent mitigation and monitoring services for biological monitoring and management for construction along the south bank of the Santa Clara River and at bridge crossings along Bouquet Canyon Road	Schedule to ensure that services will be available at least 30 days prior to initiation of construction in these alignments	Memo Record of Review Approved contract	PM
Contracting for independent mitigation and monitoring services for cultural resources monitoring and management for construction activities involving work where excavations may extend to previously undisturbed soils and to coordinate with permitting agencies and the State Historic Preservation office during pre-construction planning	Initiated upon CLWA Board adoption of MND or approval of the proposed project	Memo Record of Review Approved contract	PM
Periodic inspection of construction sites during construction to confirm contractor compliance with construction monitoring and mitigation requirements	During construction mobilization, activity, and demobilization	Inspection Report/Checklist	PM
On-going coordination with permitting agencies prior to, during, and following construction; resolution of construction-related issues	During construction mobilization, activity, and demobilization	Inspection Report/Checklist	PM
Resolution of issues raised by permitting agencies and/or the public related to contractor mitigation and monitoring activities	On-going following CLWA Board adoption of the mitigated negative declaration and approval of the project	Memo Report of issues and their resolution	PM
Maintain a file of mitigation and monitoring compliance documents	During design, construction, mobilization, demobilization, and	NA	PM

	initial start-up and inspection of facilities		
Apply for CDFG Section 1600 Permit for work in the Santa Clara River (installation of pipelines under bridge decks). Incorporate required monitoring and mitigation requirements into construction contracts.	Prior to issuance of construction contracts	Memo Report certifying that construction contracts include 1600 permit requirements	PM
Inspect, operate and maintain all facilities to minimize the potential for facility damage and associated release of water from pipelines and chemicals used in facility operations.	On-going	NA	NA
2. Design Engineers			
Action	Schedule	Required Reports	Report provided to:
Review Department of Health Services permit requirements for the treatment plant and ensure compliance with these requirements	During Design	Memo certifying compliance with approved plans and specifications	Compliance Manager and PM
Design facilities in accordance with (as appropriate) a. DHS requirements b. Standard Specifications for Public works Construction	During Design	Memo certifying compliance with approved plans and specifications	Compliance Manager and PM
Design above-ground facilities to be consistent with surrounding buildings per aesthetics commitments	During design	Memo certifying compliance with approved plans and specifications	Compliance Manager and PM
Design pipelines and treatment facilities to provide for pipeline automatic shutoff valves and hazardous materials containment	During design	Memo certifying compliance with approved plans and specifications	Compliance Manager and PM
3. Construction Contractors and Independent Monitoring Contractors (Biological and Cultural)			
Action	Schedule	Required Reports	Report provided to:
As needed, obtain permit applications and file permit requests with City of Santa Clarita for Encroachment Permit and/or County of Los Angeles Public works Encroachment Permit (including, as needed, development and processing of a State Storm Water Pollution Prevention Plan)	30 days prior to construction in the public right of way	Copy of Encroachment Permit Application	CLWA PM
Develop appropriate compliance and reporting procedures for all work for which action is specified on Table MMP-1.	Prior to initiation of construction	Copy of compliance and reporting procedures, with City/County approval as needed	CLWA PM
Comply with encroachment permits, including but not limited to:	On-going during mobilization,	Copies of insurance certificates,	CLWA PM

<ul style="list-style-type: none"> a. Notification of start of work b. Contact of Underground Service Alert c. 24-hour prior notification of persons within 300 feet of work d. Utility repair e. Caltrans MUTCD California Supplement f. Lane closure hours g. Reports of damage to traffic control equipment h. Trench/hole closure when work is not in progress i. Testing and certification of trench compaction j. Testing and certification of paving k. Removal of Underground Service Alert markings l. Compliance with utility cover requirements m. Use of non-skid steel plates to cover open trenches n. Use of recessed steel plating if required o. Night work plan approved by City as needed p. Backfill requirements met q. Concrete/asphalt removal requirements met r. Sidewalk removal and replacement requirements met s. Heavy equipment transportation requirements met 	<p>construction, and demobilization (Daily, weekly, monthly as specified in encroachment permits)</p>	<p>compliance reports, checklists, City/County inspection reports, correspondence with City and County, and other required reports or documentation</p>	
<p>Comply with SCAQMD Rule 403, including but not limited to:</p> <ul style="list-style-type: none"> a. Designation of a dust control supervisor per Rule 403 b. Table 1: Best Available Control Measures 	<p>On-going during mobilization, construction, and demobilization (Daily, weekly, monthly as specified in encroachment permits)</p>	<p>Copies of insurance certificates, compliance reports, checklists, City/County inspection reports, correspondence with City and County, and other required reports or documentation</p>	CLWA PM
<p>Comply with biological resources mitigation measures per Table MMP-1. For work along the south bank of the Santa Clara River and Bouquet Canyon Road, the biological monitor shall periodically inspect construction and shall have the authority to stop construction if necessary to ensure compliance with biological resources mitigation measures.</p>	<p>On-going during mobilization, construction, and demobilization (Daily, weekly, monthly as specified in encroachment permits)</p>	<p>Copies of, compliance reports, checklists, results of field surveys prior to and during nesting season, correspondence with CDFG and USFWS, copies of construction training materials, and other required reports or documentation</p>	CLWA PM
<p>Comply with cultural resources mitigation measures per Table MMP-1.</p>	<p>On-going during mobilization, construction, and demobilization (Daily, weekly, monthly as specified in encroachment permits)</p>	<p>Copies of, compliance reports, checklists; correspondence with SHPO, DHS, and the Native American Heritage Commission,</p>	CLWA PM

		as needed; copies of construction training materials; and other required reports or documentation	
Comply with plans and specifications with regard to all features related to leak prevention, and containment of hazards and hazardous materials.	On-going during mobilization, construction, and demobilization (Daily, weekly, monthly as specified in the noise ordinance)	Copies of insurance certificates, compliance reports, checklists, inspections, City inspection reports, correspondence with City, and other required reports or documentation	CLWA PM
Implementation of Best Management Practices for stormwater runoff control to contain runoff and sediment from construction. Preparation of a State <i>Storm Water Pollution Prevention Plan</i> if required. Specifically: a. Daily pre-construction equipment inspections to detect and repair leaks b. Use of secondary containment for fueling and chemical storage areas c. Use of secondary containment for equipment wash water d. Use of silt traps or basins to control runoff e. Cover stockpiles to prevent runoff f. Protect loose soils areas from potentially erosive runoff g. For construction in the river channel, equipment shall be fitted with secondary containment materials at potential oil/fuel leakage sites.	On-going during mobilization, construction, and demobilization (Daily, weekly, monthly as specified in the noise ordinance)	Copies of construction runoff control plan (a formal State <i>Storm Water Pollution Prevention Plan</i> as required), compliance reports, checklists, inspections, City inspection reports, correspondence with City, and other required reports or documentation	CLWA PM
Compliance with City of Santa Clarita Noise ordinances	On-going during mobilization, construction, and demobilization (Daily, weekly, monthly as specified in the noise ordinance)	Copies of insurance certificates, compliance reports, checklists, City inspection reports, correspondence with City, and other required reports or documentation	CLWA PM
Comply with MMP requirements for minimizing impacts to trails, including: a. Completion of construction and restoration of each segment of bike trail prior to initiation of construction of other segments b. Provide the shortest feasible detours around construction	On-going during mobilization, construction, and demobilization (Daily, weekly, monthly as specified in the noise ordinance)	Maps showing trail segments and proposed detours, schedule for construction,	CLWA PM

c. Post and maintain signs for trail closures and bike traffic detours			
d. Coordinate with City of Santa Clarita on bike trail closings and detours			

RESOLUTION NO. SCV-XXX

**RESOLUTION OF THE BOARD OF DIRECTORS
OF THE SANTA CLARITA VALLEY WATER AGENCY
APPROVING FUNDING FOR CONSTRUCTION CONTRACT TO
THE BEST DRILLING AND PUMP, INC., FOR THE
REPLACEMENT (SAUGUS 3 AND 4) WELLS PROJECT**

WHEREAS, Santa Clarita Valley Water Agency (SCVWA) desires to take steps to increase the reliability of its existing water system; and

WHEREAS, SCVWA's Capital Improvement Program includes construction of the Agency's future Replacement (Saugus 3 and 4) Wells; and

WHEREAS, on September 14, 2005, Castaic Lake Water Agency (CLWA), as the lead agency under California Environmental Quality Act (CEQA), adopted the Mitigated Negative Declaration for the Groundwater Containment, Treatment, and Restoration Project (MND), and MND which evaluated the Replacement (Saugus 3 and 4) Well Project and adopted findings and the Mitigation Monitoring and Reporting Programs with the adoption of Resolution No. 2429; and

WHEREAS, Castaic Lake Water Agency (CLWA), as a CEQA Lead Agency, filed the Notice of Determination with the Los Angeles County Clerk's Office and the State Clearinghouse on September 19, 2005; and

WHEREAS, as a result of the integration of CLWA into SCVWA, SCVWA is now the lead agency under CEQA for the Replacement (Saugus 3 and 4) Wells Project; and

WHEREAS, in its role as lead agency SCVWA has now evaluated the adopted MND pursuant to CEQA Guideline 15162 to determine if, when taking subsequent discretionary actions in furtherance of a project for which an MND has been adopted, SCVWA is required to review any changed circumstances to determine whether any of the circumstances under Public Resources Code section 21166 and CEQA Guidelines section 15162 require additional environmental review; and

WHEREAS, based on that evaluation, and given that the proposed Project has been only slightly modified, SCVWA staff concluded that the MND fully analyzed and mitigated all potentially significant environmental impacts, if any, that would result from the Project, and therefore, no subsequent EIR or mitigated negative declaration is required; and

WHEREAS, all bid proposals submitted to SCWA pursuant to the SCVWA's construction contract documents for the construction of the Replacement (Saugus 3 and 4) Wells Project, as amended by Addenda, were received by SCVWA on Wednesday, June 3, 2020 by 2:00 p.m., in full accordance with the law and SCVWA customary procedures; and

WHEREAS, the Board of Directors finds, after considering the opinion of staff, that the total bid of Best Drilling and Pump, Inc., in the amount of \$5,615,052 is the lowest

responsible bid of three bids submitted, and that said bid substantially meets the requirements of said construction contract documents as amended by Addenda; and

WHEREAS, it is in the Agency's best interest that the Board of Directors, on behalf of the SCVWA, authorize its General Manager to accept the \$5,615,052 bid.

NOW, THEREFORE, BE IT RESOLVED, the SCVWA Board of Directors (Board) has reviewed and considered the MND and supporting materials and finds that those documents taken together contain a complete and accurate reporting of all of the environmental impacts associated with the Project.

The Board further finds that the administrative record has been completed in compliance with CEQA, the CEQA Guidelines, and that the MND and supporting materials, taken together, reflect the Board's independent judgment.

Further, based on the substantial evidence set forth in the record, including but not limited to the MND and supporting materials the Board finds that, based on the whole record before it, none of the conditions under State CEQA Guidelines section 15162 requiring subsequent environmental review have occurred because the Project:

a) will not result in substantial changes that would require major revisions of the MND due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects; and

b) will not result in substantial changes with respect to the circumstances under which the Project is developed that would require major revisions of the MND due to the involvement of new significant environmental effects or a substantial increase in the severity of the previously identified significant effects; and

c) does not present new information of substantial importance that was not known and could not have been known with the exercise of reasonable diligence at the time the MND was adopted, as applicable, showing any of the following: (i) that the modifications would have one or more significant effects not discussed in the earlier environmental documentation; (ii) that significant effects previously examined would be substantially more severe than shown in the earlier environmental documentation; (iii) that mitigation measures or alternatives previously found not to be feasible would in fact be feasible and would substantially reduce one or more significant effects, but the applicant declined to adopt such measures; or (iv) that mitigation measures or alternatives are considerably different from those analyzed previously would substantially reduce one or more significant effects on the environment, but which the applicant declined to adopt.

Further, based on the substantial evidence set forth in the record, including but not limited to the MND and supporting materials, the Board finds that the applicable mitigation measures identified in the MND have been incorporated into a specific mitigation monitoring program for the Project and would ensure that any potential environmental impacts would be reduced to less than significant levels.

The Board re-adopts those mitigation measures identified in the MND that are relevant to the Project as detailed specifically in the Mitigation Monitoring Program attached as Exhibit A, attached hereto and by this reference incorporated herein.

The documents and materials that constitute the record of proceedings on which this Resolution has been based are located at the Santa Clarita Valley Water Agency Summit Circle Office at 26521 Summit Circle, Santa Clarita, CA 91350. The custodian for these records is James Leserman. This information is provided in compliance with Public Resources Code section 21081.6.

A Notice of Determination shall be filed with the County of Los Angeles and the State Clearinghouse within 5 (five) working days of the Board's final Project approval.

NOW, THEREFORE, BE IT RESOLVED that the SCVWA's Board of Directors does authorize its General Manager to accept said low bid and does therefore authorize the SCVWA's General Manager or its Chief Operating Officer to issue a Notice of Award to Best Drilling and Pump, Inc., hereby found to be the "lowest responsible bidder" for the Replacement (Saugus 3 and 4) Wells Project for the total sum of \$5,615,052.

RESOLVED FURTHER that the SCVWA's General Manager or its President and Secretary are thereupon authorized, upon receipt of appropriate payment and performance bonds, appropriate certificates of insurance and an executed Contract Agreement from Best Drilling and Pump, Inc., all of which must be approved by General Counsel, to execute the said Contract Agreement on behalf of the SCVWA.

RESOLVED FURTHER that the SCVWA's General Manager or Chief Operating Officer are thereafter authorized to execute and forward to Best Drilling and Pump, Inc. an appropriate Notice to Proceed.

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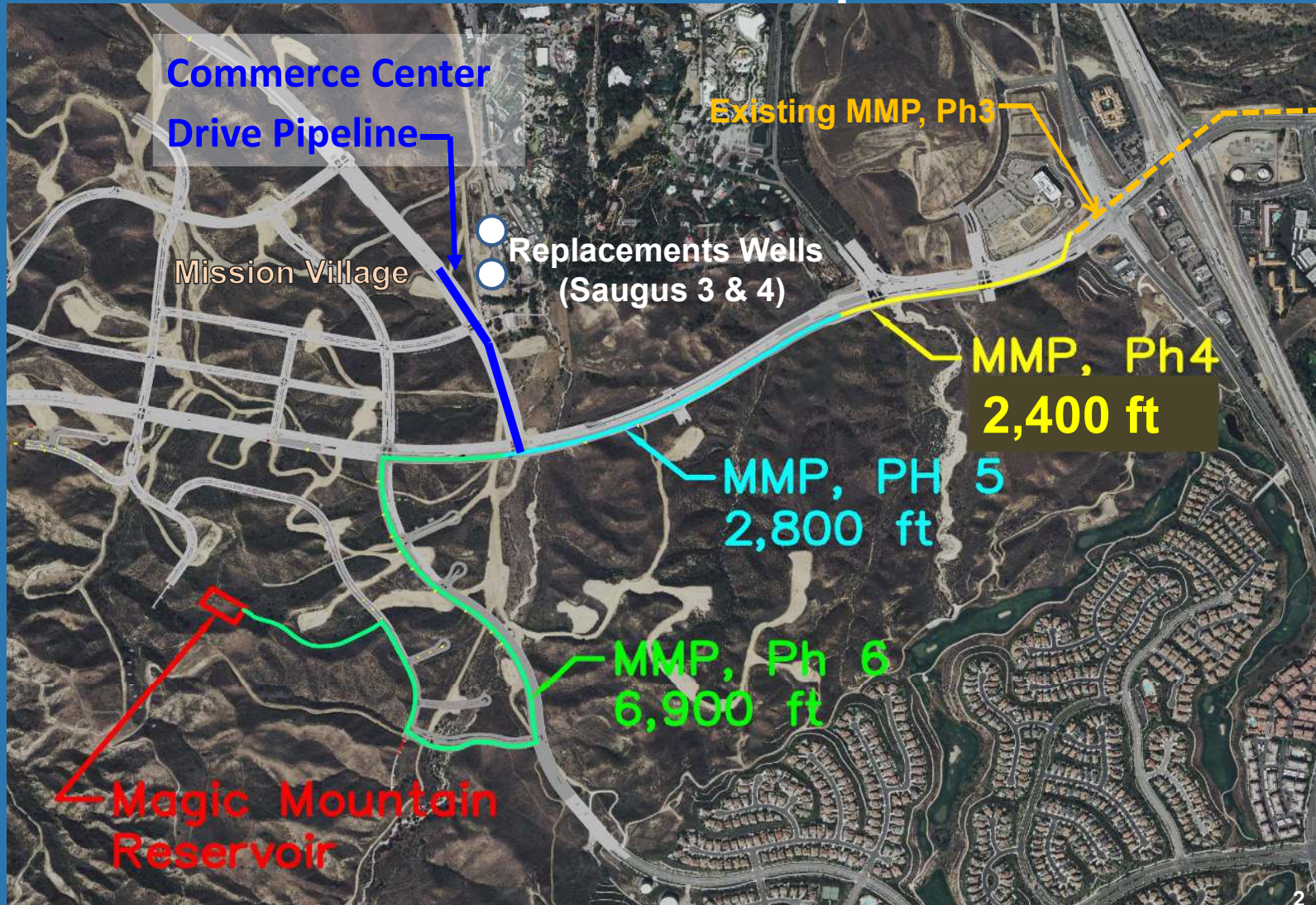


July 1, 2020

Replacement (Saugus 3 and 4) Wells Construction Project

Engineering and Operations
Committee Meeting

Location and Description



Replacement (Saugus 3 and 4) Wells--Completed Activities

- Sites identified
- Initial design completed and specifications prepared.
- June 3, 2020: Three (3) Construction Bids received
- Recommend Best Drilling and Pump, Inc. (Bests) for well construction contract award.

Bidder	Total Base Bid Price
Best Drilling and Pump, Inc. (Colton, CA)	\$5,615,052
Zim Industries (Fresno, CA)	\$7,418,130
Layne Christensen (Redlands, CA)	\$9,557,720

Engineer's Estimate: \$6,105,490

Commerce Center Pipeline Project Budget

- **Construction:**

Best's Contract Amount	\$5,615,052
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- **Construction Management, Inspection, and Engineering:**

Black & Veatch (construction management)	\$592,000
Richard C. Slade & Associates LLC (engineering during construction)	\$343,000
Construction Management, Inspection, and Engineering Budget	\$935,000

- **Total Project Costs**

Planning and Design	\$970,000
Construction Management, Inspection, and Engineering	\$1,000,000
Capital Construction Costs	\$8,691,000
Additional Project Delivery Costs	\$500,000
Current Estimated Total Project Cost	\$11,161,000

Replacement (Saugus 3 and 4) Wells Construction Project Project Schedule

- July 1, 2020: Engineering & Operations Committee (construction funding)
- August 4, 2020: Board Meeting (construction funding)
- September 1, 2020 - June 28, 2020: Construction Period (300 calendar days)

Replacement (Saugus 3 and 4) Wells Construction Project Recommendations

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


- Approve a resolution awarding funding in amount not to exceed \$5,615,052 for construction costs to Best Drilling and Pump, Inc.
- Authorize the General Manager to issue a purchase order to Black & Veatch for an amount not to exceed \$592,000 for construction management services
- Authorize the General Manager to issue a purchase order to Richard C. Slade LLC for an amount not to exceed \$343,000 for engineering services during construction



COMMITTEE MEMORANDUM

DATE: June 25, 2020

TO: Engineering and Operations Committee

FROM: Keith Abercrombie
Chief Operating Officer 

SUBJECT: Recommend Approval of a Resolution for a Purchase Order to Lee & Ro for Design Engineering Services for the Replacement (Saugus 3 and 4) Well Site and Infrastructure Project

SUMMARY

SCV Water (Agency) solicited proposals for the Replacement (Saugus 3 and 4) Wells Site and Infrastructure Design Project. Proposals have been received and staff is recommending approval of a purchase order to Lee & Ro for design engineering services.

DISCUSSION

The Agency's Capital Improvement Program includes construction of new production wells that will replace capacity lost from wells that were shut down in 1997 because of perchlorate contamination. Construction of the Replacement (Saugus 3 and 4) Wells Project, which consists of three parts: 1) two new wells just west of Magic Mountain amusement park, 2) site preparation and infrastructure and 3) and a pipeline to convey the water along Commerce Center Drive to the Magic Mountain Parkway Pipeline. Assuming that the two wells are determined to be capable of producing water, the proposed action will consist of designing permanent well equipment, disinfection system, electrical service, SCADA improvements, pipelines, and associated site improvements (fence/wall enclosure, site grading, site pavement, site drainage, shade structure, etc.). Also, the site design will have to incorporate for space for a potential future treatment facility (e.g. ion exchange vessels, prefilters, chemical system). Once designed, these items will be bid in a separate construction contract from the wells themselves.

Staff solicited proposals for design services from five of its on-call consulting firms and received four proposals. Staff evaluated the proposals and determined that Lee & Ro had the best proposal based on approach, experience, project team and proposed fee. Staff is recommending Lee and Ro for the work. The general scope of work includes providing design and engineering services.

CEQA Determination

The proposed action is the design of permanent well equipment, disinfection system, electrical service, SCADA improvements, pipelines and associated site improvements, and the proposed action was previously evaluated by the Castaic Lake Water Agency's (CLWA) Board of Directors. On September 14, 2005, CLWA, as the lead agency under CEQA, adopted the Mitigated Negative Declaration for the Groundwater Containment, Treatment, and Restoration Project and adopted findings and the Mitigation Monitoring and Reporting Program with the adoption of Resolution No. 2429. CLWA filed the Notice of Determination with the Los Angeles

County Clerk's Office and the State Clearinghouse (SCH No. 2005081053) on September 19, 2005.

As a result of the integration of CLWA into the Agency pursuant to SB 634, the Agency is now the lead agency under CEQA for the Replacement (Saugus 3 and 4) Wells Construction Project. In its role as lead agency the Agency has now evaluated the adopted MND pursuant to CEQA Guideline 15162 to determine if, when taking subsequent discretionary actions in furtherance of a project for which an MND has been adopted, the Agency is required to review any changed circumstances to determine whether any of the circumstances under Public Resources Code Section 21166 and CEQA Guidelines Section 15162 require additional environmental review.

Based on that evaluation, staff concluded that the proposed design is consistent with the MND, and the MND fully analyzed and mitigated all potentially significant environmental impacts, if any, that would result from the Project, therefore no subsequent EIR or mitigated negative declaration is required.

FINANCIAL CONSIDERATIONS

This Project is included in the Agency's Biennial Budget for FY 2019/2020 and FY 2020/2021 as part of the \$11,161,000 Replacement (Saugus 3 and 4) Wells Project. The first \$8.3 million of the project will be funded by Whittaker Corporation, consistent with terms of Castaic Lake Water Agency Litigation Settlement Agreement and amendments related to perchlorate contamination. The design work would be performed on a time and expense basis with a design budget of \$326,000.

RECOMMENDATION

That the Engineering and Operations Committee recommends that the Board of Directors approve the attached resolution for a purchase order to Lee & Ro for an amount not to exceed \$326,000 for design engineering services for the Replacement (Saugus 3 and 4) Well Site and Infrastructure Project.

JL

Attachment

SR

MBS

**Mitigation and Monitoring Plan
Castaic Lake Water Agency
Groundwater Containment, Treatment, and Restoration Project**

This Mitigation and Monitoring Plan (MMP) specifies mitigation actions and monitoring and reporting requirements for the *Castaic Lake Water Agency Groundwater Containment, Treatment, and Restoration Project*, consistent with the project Initial Study and Final Mitigated Negative Declaration. For each action or class of actions identified in the above documents, this plan specifies the following:

- The required action
- The schedule
- The party responsible for implementing the action
- The required reports
- The entity to receive reports

For ease of use, the MMP is presented in tabular format. Adoption of this Mitigation and Monitoring Plan constitutes a commitment by Castaic Lake Water Agency (CLWA) to comply with and fund the required mitigation and monitoring. At its discretion, CLWA will implement the MMP through construction contractors and other independent contractors, as noted. In all cases, CLWA's Project Manager and/or designated compliance staff will routinely audit contractor compliance with the requirements of the MMP.

In general, construction contractors will implement aspects of the MMP related to the acquisition and compliance with construction permits from the City of Santa Clarita, the County of Los Angeles, and the State of California. If it is determined that such plans are required, this may include preparation of construction plans such as the State of California Storm Water Pollution Prevention Plan. CLWA's primary role in these efforts will be to require these activities as part of the scope of work for each construction project and contract, to review plans and specifications, to periodically conduct compliance audits to ensure that contractors are acting in accordance with their plans, and to maintain records of all compliance activities and reports. CLWA may independently contract for specialized compliance monitoring, such as monitoring related to biological and cultural resources; these independent monitors will work with construction contractors to ensure compliance with mitigation and monitoring plan requirements. The MMP is thus organized to make the responsibilities of CLWA, design engineers, construction contractors, and independent contractors clear, and thus focuses on the actions required by each entity.

Table MMP-1. Mitigation and Monitoring Commitments Checklist (R = Review, C = Specify requirement in construction contract, A = Compliance Action, RP = Reporting Requirement, I = Inspect, M = Maintain during operation, NA = not applicable)

Impact Category	Mitigation Measure (See Initial Study for details)	Responsible Parties and Role			
		CLWA	Design Contractor	Construction Contractor	Independent Contractor
Aesthetics	Design and construct Treatment Plant to be consistent with Rio Vista Intake Pump Station	RC	A	AR	NA
	Landscape proposed treatment facility along the bike trail	RC	A	AR	NA
	Ensure Treatment Plant lights are directed away from bike trail	RC	A	AR	NA
	Contain wells in structures and landscape	RC	A	AR	NA
Air Quality	Comply with SCAQMD Rule 403	RI	NA	AR	NA
	Comply with SCAQMD Rule 1179 (b) (6)	RI	A	AR	NA
Biological Resources	Install automatic shut off valves in perchlorate pipeline to ensure pipeline shut down if pipeline is damaged during operation	RIM	A	AR	NA
	Schedule construction along south bank of Santa Clara River and Bouquet Canyon Road for September 1-February 1	RC	NA	AR	NA
	For construction outside of the September 1-February 1, survey weekly for raptor nests 30 days prior to initiation of construction.	RC	NA	NA	AR
	If nests are found within 300 feet of construction area (500 feet for raptors), suspend construction until nests are empty, young have fledged, and there is no evidence of new nesting activity	RC	NA	AR	AR
	Flag construction areas to clearly mark off-limits areas at 300-foot and 500-foot from active nests	RC	NA	AR	AR
	Survey for bats under the Bouquet Canyon Bridge. If bats are located, impacts may be avoided by scheduling work during the non-nesting season (after September 1 and before March 1). Bats leaving the structure at night may then be excluded from returning to the bridge with fine mesh. CLWA will consult with CDFG during implementation of such impact avoidance measures.	RC	NA	AR	AR
	Develop and conduct a CDFG and USFWS training program for workers along the south bank of the Santa Clara River and Bouquet Canyon Road; post species information at the site	RC	NA	AR	AR

	Following biological survey to confirm no special status species at the construction site, install fine-mesh drift fence along boundary between river and construction site along the south bank of the Santa Clara River and Bouquet Canyon Road	RC	NA	AR	AR
	For installation of pipelines at Bouquet Canyon Road bridge, comply with CDFG 1600 permit requirements. Specifically: a. All construction will be done in dry conditions; b. Construction equipment will access the river bed via an area without native riparian vegetation; c. Construction equipment fueling and maintenance will be performed outside of the riverbed or if necessary these activities will be performed using containment vessels; d. Spills of fuel or other materials used during construction will be immediately reported and cleaned up in accordance with rules of the Regional Water Quality Control Board.	RC	NA	AR	AR
	To the extent feasible, along Mainstem and South Fork of Santa Clara river, use landward right-of way for side casting of spoil and for construction laydown and vehicle fueling and maintenance to isolate these activities from the river.	RC	NA	AR	AR
Cultural Resources	Where there is potential to encounter buried cultural resources (roads and trails along the South Fork of the Santa Clara River): a. Prior to construction, train construction personnel regarding recognition of buried cultural remains and establish procedures to halt construction immediately and notify qualified archeologist. b. In areas near a known cultural resource site, a qualified archeologist shall monitor construction. If resources are found, initiate consultation with the State Historic Preservation Office. c. Comply with Department of Health Services requirements for treatment of buried human remains.	RC	NA	AR	AR
Geology and Soils	Install automatic shut off valves in perchlorate pipeline to ensure pipeline shut down if pipeline is damaged during operation	RIM	A	AR	NA
	On-going monitoring of Treatment Plant operation	A	NA	NA	NA
	Provide secondary containment vessels for hazardous treatment plant chemicals	AIM	A	AR	NA
Hazards and	Design, construct, and operate to provide for best management	AIM	A	AR	NA

Hazardous Materials	practices for handling of chemicals at chloramination facilities				
	Provide secondary containment vessels for hazardous treatment plant chemicals	AIM	A	AR	NA
	During construction, comply with City of Santa Clarita policies related to emergency response plans or evacuation plans	RC	NA	A	NA
	Comply with City of Santa Clarita Encroachment Policy and County of Los Angeles Code, Division 1, Title 16 (where appropriate) regarding trench backfill and covering	RC	NA	AR	NA
Hydrology and Groundwater Quality	Contain construction-site drainage and sediments: a. Daily pre-construction equipment inspections to detect and repair leaks b. Use of secondary containment for fueling and chemical storage areas c. Use of secondary containment for equipment wash water d. Use of silt traps or basins to control runoff e. Cover stockpiles to prevent runoff f. Protect loose soils areas from potentially erosive runoff g. For construction in the river channel, equipment shall be fitted with secondary containment materials at potential oil/fuel leakage sites.	RCI	NA	AR	NA
	Prepare a <i>Storm Water Pollution Prevention Plan</i> if required	RC	NA	AR	NA
Noise	For construction adjacent to housing, comply with City of Santa Clarita Noise ordinances: a. Permanent above-ground facilities (wells and treatment plant) will be contained in structures to ensure adjacent noise levels are below levels established for facilities in commercial and manufacturing areas; b. Limit construction to the period 7 am to 7 pm; c. Monitor noise levels adjacent to housing and if levels at adjacent housing exceed City Noise Ordinance permitted levels (65 dBA), install temporary noise attenuation barriers	RC RC	A A	AR AR	NA NA
Recreation	No more than one segment of bike trail will be affected at any time	RC	NA	AR	NA
	Detours around the construction zone will be as short as possible and temporary. As part of this action, post and maintain	RC	NA	AR	NA

	signage related to trail closures and detours.				
Transportation and Traffic	<p>Comply with City of Santa Clarita Encroachment Permit Policy and/or County of Los Angeles Public Works Encroachment Permit requirements, County Code Division 1, Title 16</p> <p>As feasible, limit construction related truck trips on state highways to off-peak commute periods.</p> <p>Obtain Caltrans Transportation Permit for transport of oversized or over-weight vehicles on State highways.</p> <p>Avoid excessive or poorly timed truck platooning.</p>	RC	NA	AR	NA

Table MMP-2. Mitigation and Monitoring Responsibilities

1. CLWA Responsibilities (CLWA Compliance Manager and/or Project Manager)			
Action	Schedule	Required Reports	Report provided to:
Assign a staff person (compliance manager) to oversee compliance with the commitments of the Initial Study and Mitigated Negative Declaration.	Prior to issuing construction contracts	None	None
Incorporate monitoring requirements in construction contracts and scopes of work	Prior to issuing contracting documents	Memo Record of Review	PM
Review Designs and Specifications to ensure that mitigation commitments related to design and construction are met	Prior to approving designs and specifications	Memo Record of Review	PM
Review project schedule to ensure that mitigation commitments related to scheduling are met	Prior to approving schedule	Memo Record of Review	PM
Periodic inspection of contractor compliance records	On-going	Memo Record of Review	PM
Contracting for independent mitigation and monitoring services for biological monitoring and management for construction along the south bank of the Santa Clara River and at bridge crossings along Bouquet Canyon Road	Schedule to ensure that services will be available at least 30 days prior to initiation of construction in these alignments	Memo Record of Review Approved contract	PM
Contracting for independent mitigation and monitoring services for cultural resources monitoring and management for construction activities involving work where excavations may extend to previously undisturbed soils and to coordinate with permitting agencies and the State Historic Preservation office during pre-construction planning	Initiated upon CLWA Board adoption of MND or approval of the proposed project	Memo Record of Review Approved contract	PM
Periodic inspection of construction sites during construction to confirm contractor compliance with construction monitoring and mitigation requirements	During construction mobilization, activity, and demobilization	Inspection Report/Checklist	PM
On-going coordination with permitting agencies prior to, during, and following construction; resolution of construction-related issues	During construction mobilization, activity, and demobilization	Inspection Report/Checklist	PM
Resolution of issues raised by permitting agencies and/or the public related to contractor mitigation and monitoring activities	On-going following CLWA Board adoption of the mitigated negative declaration and approval of the project	Memo Report of issues and their resolution	PM
Maintain a file of mitigation and monitoring compliance documents	During design, construction, mobilization, demobilization, and	NA	PM

	initial start-up and inspection of facilities		
Apply for CDFG Section 1600 Permit for work in the Santa Clara River (installation of pipelines under bridge decks). Incorporate required monitoring and mitigation requirements into construction contracts.	Prior to issuance of construction contracts	Memo Report certifying that construction contracts include 1600 permit requirements	PM
Inspect, operate and maintain all facilities to minimize the potential for facility damage and associated release of water from pipelines and chemicals used in facility operations.	On-going	NA	NA
2. Design Engineers			
Action	Schedule	Required Reports	Report provided to:
Review Department of Health Services permit requirements for the treatment plant and ensure compliance with these requirements	During Design	Memo certifying compliance with approved plans and specifications	Compliance Manager and PM
Design facilities in accordance with (as appropriate) a. DHS requirements b. Standard Specifications for Public works Construction	During Design	Memo certifying compliance with approved plans and specifications	Compliance Manager and PM
Design above-ground facilities to be consistent with surrounding buildings per aesthetics commitments	During design	Memo certifying compliance with approved plans and specifications	Compliance Manager and PM
Design pipelines and treatment facilities to provide for pipeline automatic shutoff valves and hazardous materials containment	During design	Memo certifying compliance with approved plans and specifications	Compliance Manager and PM
3. Construction Contractors and Independent Monitoring Contractors (Biological and Cultural)			
Action	Schedule	Required Reports	Report provided to:
As needed, obtain permit applications and file permit requests with City of Santa Clarita for Encroachment Permit and/or County of Los Angeles Public works Encroachment Permit (including, as needed, development and processing of a State Storm Water Pollution Prevention Plan)	30 days prior to construction in the public right of way	Copy of Encroachment Permit Application	CLWA PM
Develop appropriate compliance and reporting procedures for all work for which action is specified on Table MMP-1.	Prior to initiation of construction	Copy of compliance and reporting procedures, with City/County approval as needed	CLWA PM
Comply with encroachment permits, including but not limited to:	On-going during mobilization,	Copies of insurance certificates,	CLWA PM

<ul style="list-style-type: none"> a. Notification of start of work b. Contact of Underground Service Alert c. 24-hour prior notification of persons within 300 feet of work d. Utility repair e. Caltrans MUTCD California Supplement f. Lane closure hours g. Reports of damage to traffic control equipment h. Trench/hole closure when work is not in progress i. Testing and certification of trench compaction j. Testing and certification of paving k. Removal of Underground Service Alert markings l. Compliance with utility cover requirements m. Use of non-skid steel plates to cover open trenches n. Use of recessed steel plating if required o. Night work plan approved by City as needed p. Backfill requirements met q. Concrete/asphalt removal requirements met r. Sidewalk removal and replacement requirements met s. Heavy equipment transportation requirements met 	<p>construction, and demobilization (Daily, weekly, monthly as specified in encroachment permits)</p>	<p>compliance reports, checklists, City/County inspection reports, correspondence with City and County, and other required reports or documentation</p>	
<p>Comply with SCAQMD Rule 403, including but not limited to:</p> <ul style="list-style-type: none"> a. Designation of a dust control supervisor per Rule 403 b. Table 1: Best Available Control Measures 	<p>On-going during mobilization, construction, and demobilization (Daily, weekly, monthly as specified in encroachment permits)</p>	<p>Copies of insurance certificates, compliance reports, checklists, City/County inspection reports, correspondence with City and County, and other required reports or documentation</p>	CLWA PM
<p>Comply with biological resources mitigation measures per Table MMP-1. For work along the south bank of the Santa Clara River and Bouquet Canyon Road, the biological monitor shall periodically inspect construction and shall have the authority to stop construction if necessary to ensure compliance with biological resources mitigation measures.</p>	<p>On-going during mobilization, construction, and demobilization (Daily, weekly, monthly as specified in encroachment permits)</p>	<p>Copies of, compliance reports, checklists, results of field surveys prior to and during nesting season, correspondence with CDFG and USFWS, copies of construction training materials, and other required reports or documentation</p>	CLWA PM
<p>Comply with cultural resources mitigation measures per Table MMP-1.</p>	<p>On-going during mobilization, construction, and demobilization (Daily, weekly, monthly as specified in encroachment permits)</p>	<p>Copies of, compliance reports, checklists; correspondence with SHPO, DHS, and the Native American Heritage Commission,</p>	CLWA PM

		as needed; copies of construction training materials; and other required reports or documentation	
Comply with plans and specifications with regard to all features related to leak prevention, and containment of hazards and hazardous materials.	On-going during mobilization, construction, and demobilization (Daily, weekly, monthly as specified in the noise ordinance)	Copies of insurance certificates, compliance reports, checklists, inspections, City inspection reports, correspondence with City, and other required reports or documentation	CLWA PM
Implementation of Best Management Practices for stormwater runoff control to contain runoff and sediment from construction. Preparation of a State <i>Storm Water Pollution Prevention Plan</i> if required. Specifically: a. Daily pre-construction equipment inspections to detect and repair leaks b. Use of secondary containment for fueling and chemical storage areas c. Use of secondary containment for equipment wash water d. Use of silt traps or basins to control runoff e. Cover stockpiles to prevent runoff f. Protect loose soils areas from potentially erosive runoff g. For construction in the river channel, equipment shall be fitted with secondary containment materials at potential oil/fuel leakage sites.	On-going during mobilization, construction, and demobilization (Daily, weekly, monthly as specified in the noise ordinance)	Copies of construction runoff control plan (a formal State <i>Storm Water Pollution Prevention Plan</i> as required), compliance reports, checklists, inspections, City inspection reports, correspondence with City, and other required reports or documentation	CLWA PM
Compliance with City of Santa Clarita Noise ordinances	On-going during mobilization, construction, and demobilization (Daily, weekly, monthly as specified in the noise ordinance)	Copies of insurance certificates, compliance reports, checklists, City inspection reports, correspondence with City, and other required reports or documentation	CLWA PM
Comply with MMP requirements for minimizing impacts to trails, including: a. Completion of construction and restoration of each segment of bike trail prior to initiation of construction of other segments b. Provide the shortest feasible detours around construction	On-going during mobilization, construction, and demobilization (Daily, weekly, monthly as specified in the noise ordinance)	Maps showing trail segments and proposed detours, schedule for construction,	CLWA PM

c. Post and maintain signs for trail closures and bike traffic detours			
d. Coordinate with City of Santa Clarita on bike trail closings and detours			

RESOLUTION NO. SCV-XXX

**RESOLUTION OF THE BOARD OF DIRECTORS
OF THE SANTA CLARITA VALLEY WATER AGENCY
APPROVING FUNDING FOR ENGINEERING SERVICES TO
LEE & RO FOR THE
REPLACEMENT (SAUGUS 3 AND 4) WELLS SITE AND
INFRASTRUCTURE DESIGN PROJECT**

WHEREAS, Santa Clarita Valley Water Agency (SCVWA) desires to take steps to increase the reliability of its existing water system; and

WHEREAS, SCVWA's Capital Improvement Program includes construction of the Agency's future Replacement (Saugus 3 and 4) Wells; and

WHEREAS, on September 14, 2005, Castaic Lake Water Agency (CLWA), as the lead agency under California Environmental Quality Act (CEQA), adopted the Mitigated Negative Declaration for the Groundwater Containment, Treatment, and Restoration Project (MND), and MND which evaluated the Replacement (Saugus 3 and 4) Well Project and adopted findings and the Mitigation Monitoring and Reporting Programs with the adoption of Resolution No. 2429; and

WHEREAS, Castaic Lake Water Agency (CLWA), as a CEQA Lead Agency, filed the Notice of Determination with the Los Angeles County Clerk's Office and the State Clearinghouse on September 19, 2005; and

WHEREAS, as a result of the integration of CLWA into SCVWA, SCVWA is now the lead agency under CEQA for the Replacement (Saugus 3 and 4) Wells Project; and

WHEREAS, in its role as lead agency SCVWA has now evaluated the adopted MND pursuant to CEQA Guideline 15162 to determine if, when taking subsequent discretionary actions in furtherance of a project for which an MND has been adopted, SCVWA is required to review any changed circumstances to determine whether any of the circumstances under Public Resources Code section 21166 and CEQA Guidelines section 15162 require additional environmental review; and

WHEREAS, based on that evaluation, and given that the proposed design is consistent with the MND, SCVWA staff concluded that the MND fully analyzed and mitigated all potentially significant environmental impacts, if any, that would result from the Project, and therefore, no subsequent EIR or mitigated negative declaration is required; and

WHEREAS, all proposals submitted to SCVWA pursuant to the SCVWA's request for proposal documents for the design of the Replacement (Saugus 3 and 4) Wells Site and Infrastructure Project were received by SCVWA on Wednesday, May 20, 2020 by 5:00 p.m., in full accordance with the law and SCVWA customary procedures; and

WHEREAS, the Board of Directors finds, after considering the opinion of staff, that the total proposal in an amount not to exceed of Lee & Ro in the amount of \$326,000 is the best suited proposal of four proposals submitted, and that said proposal substantially meets the requirements of said request for proposal documents; and

WHEREAS, it is in the Agency's best interest that the Board of Directors, on behalf of the SCVWA, authorize its General Manager to accept the \$326,000 proposal.

NOW, THEREFORE, BE IT RESOLVED, the SCVWA Board of Directors (Board) has reviewed and considered the MND and supporting materials and finds that those documents taken together contain a complete and accurate reporting of all of the environmental impacts associated with the Project.

The Board further finds that the administrative record has been completed in compliance with CEQA, the CEQA Guidelines, and that the MND and supporting materials, taken together, reflect the Board's independent judgment.

Further, based on the substantial evidence set forth in the record, including but not limited to the MND and supporting materials the Board finds that, based on the whole record before it, none of the conditions under State CEQA Guidelines section 15162 requiring subsequent environmental review have occurred because the Project:

a) will not result in substantial changes that would require major revisions of the MND due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects; and

b) will not result in substantial changes with respect to the circumstances under which the Project is developed that would require major revisions of the MND due to the involvement of new significant environmental effects or a substantial increase in the severity of the previously identified significant effects; and

c) does not present new information of substantial importance that was not known and could not have been known with the exercise of reasonable diligence at the time the MND was adopted, as applicable, showing any of the following: (i) that the modifications would have one or more significant effects not discussed in the earlier environmental documentation; (ii) that significant effects previously examined would be substantially more severe than shown in the earlier environmental documentation; (iii) that mitigation measures or alternatives previously found not to be feasible would in fact be feasible and would substantially reduce one or more significant effects, but the applicant declined to adopt such measures; or (iv) that mitigation measures or alternatives are considerably different from those analyzed previously would substantially reduce one or more significant effects on the environment, but which the applicant declined to adopt.

Further, based on the substantial evidence set forth in the record, including but not limited to the MND and supporting materials, the Board finds that the applicable mitigation measures identified in the MND have been incorporated into a specific mitigation monitoring program for the Project and would ensure that any potential environmental impacts would be reduced to less than significant levels.

The Board re-adopts those mitigation measures identified in the MND that are relevant to the Project as detailed specifically in the Mitigation Monitoring Program attached as Exhibit A, attached hereto and by this reference incorporated herein.

The documents and materials that constitute the record of proceedings on which this Resolution has been based are located at the Santa Clarita Valley Water Agency

Summit Circle Office at 26521 Summit Circle, Santa Clarita, CA 91350. The custodian for these records is James Leserman. This information is provided in compliance with Public Resources Code section 21081.6.

A Notice of Determination shall be filed with the County of Los Angeles and the State Clearinghouse within 5 (five) working days of the Board's final Project approval.

NOW, THEREFORE, BE IT RESOLVED that the SCVWA's Board of Directors does authorize its General Manager to accept said proposal and does therefore authorize the SCVWA's General Manager or its Chief Operating Officer to issue a Purchase Order to Lee & Ro, for the Replacement (Saugus 3 and 4) Wells Site and Infrastructure Design Project for an amount not to exceed of \$326,000.

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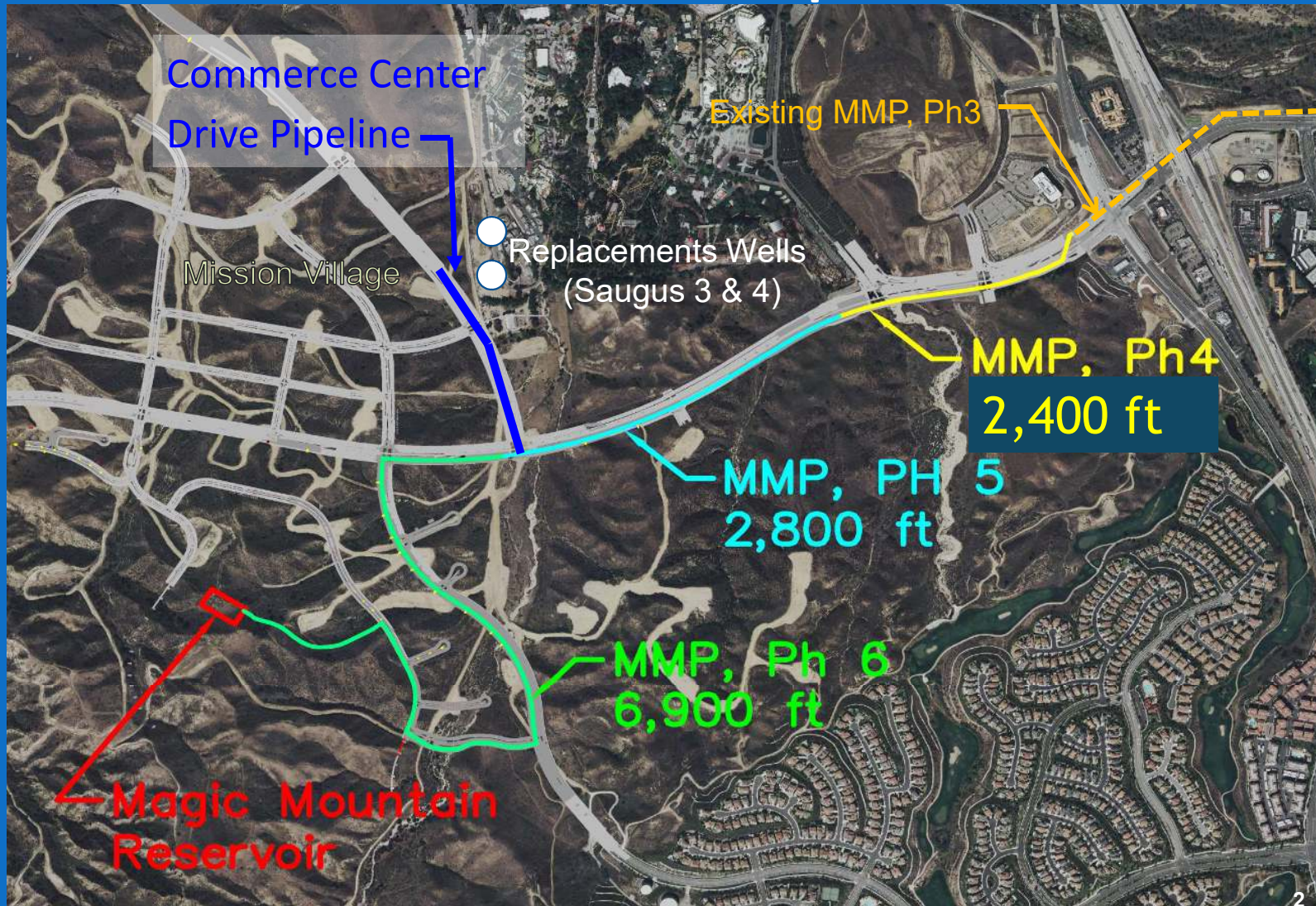


July 1, 2020

Replacement (Saugus 3 and 4) Site and Infrastructure Design Project

Engineering and Operations
Committee Meeting

Location and Description



Replacement (Saugus 3 and 4) Site and Infrastructure Design Project Design Team

- Four proposals received
- Lee & Ro prepared feasibility/pre-design report
- Lee & Ro rated best by evaluation committee (Fee of \$250,000)



Replacement (Saugus 3 and 4) Site and Infrastructure Design Project Anticipated Project Schedule

- Design Phase:
 - ✓ July 1, 2020: Engineering & Operations Committee
 - ✓ August 4, 2020: Board Meeting
 - ✓ August 5, 2020: Issue Notice To Proceed to Lee & Ro
 - ✓ February 1, 2021: Complete Design



Replacement (Saugus 3 and 4) Site and Infrastructure Design Project Recommendation

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

- Approve the Resolution for a Purchase Order to Lee & Ro for an amount not to exceed \$326,000 for design engineering services for the Replacement (Saugus 3 and 4) Wells Site/Infrastructure Design Project.



Questions



July 1, 2020



Construction Update on the West Ranch Recycled Water Main Extension (Phase 2D) Project

Engineering and Operations
Committee Meeting

West Ranch Recycled Water Main Extension (Phase 2D) Project

- 20 existing irrigation meters
- 211 AFY of existing irrigation demands
- 4,850 L.F. (12" and 6") DIP pipe
- 1,000 gpm Pump Station
- 1 Hydropneumatic tank (2,500 Gallons)
- SB 634 - Community Workforce Agreement



YOURSCVWATER.COM



West Ranch Recycled Water Main Extension (Phase 2D) Project Contract Bid

<u>Bidder</u>	<u>Bid Amount</u>
Cedro Construction, Inc.	\$3,112,332

- Board of Directors approved the project in February 4, 2020



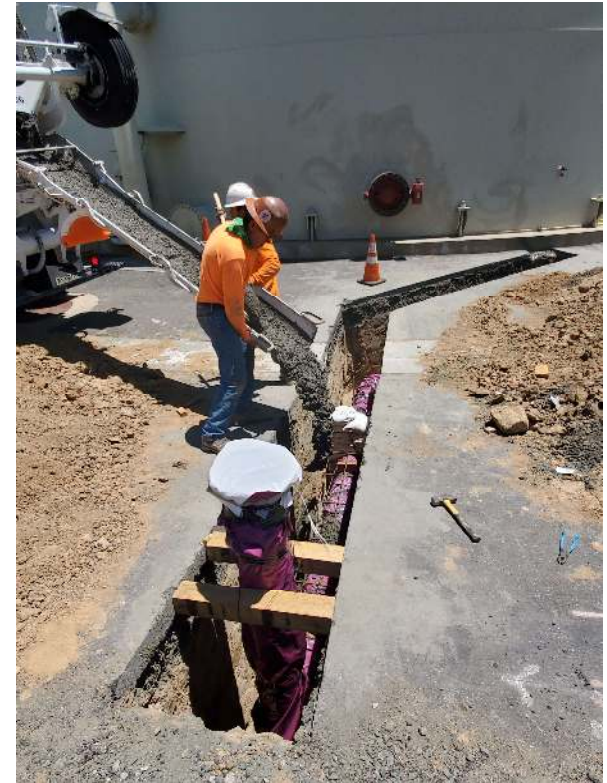
West Ranch Recycled Water Main Extension (Phase 2D) Project



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West Ranch Recycled Water Main Extension (Phase 2D) Project



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Questions?



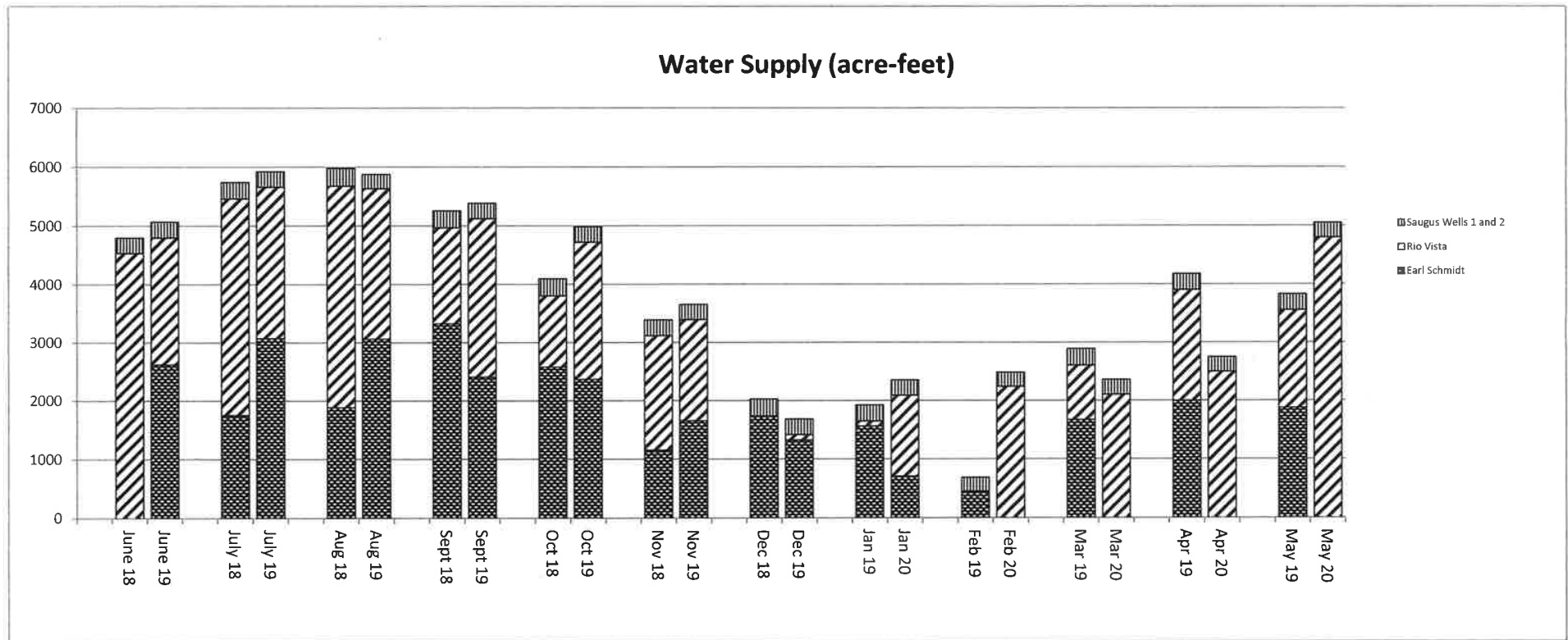


Monthly Operations & Production Report

May 2020

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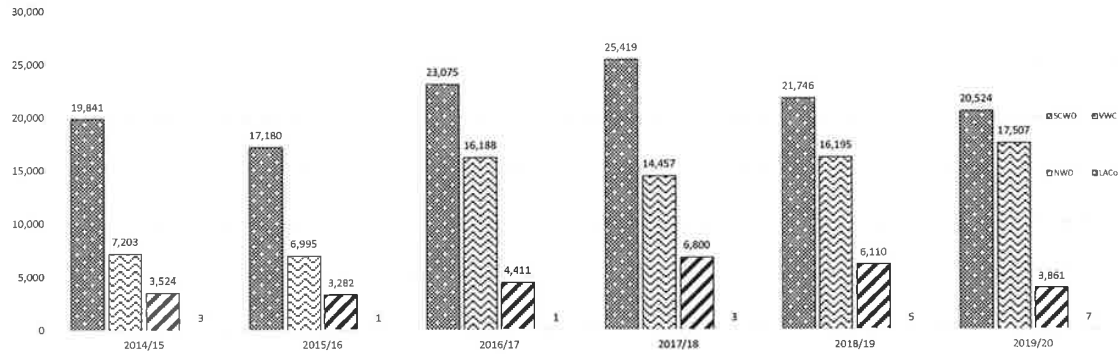
SANTA CLARITA VALLEY WATER AGENCY
 May 2020 Regional Operations Report



Source	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Total
Earl Schmidt	2622	3071	3057	2404	2360	1655	87	708	0	0	0	0	15963.765
Rio Vista	2175	2588	2577	2719	2360	1736	1328	1374	2235	2096	2490	4801	28479.4
Saugus 1 and 2	273	267	242	261	263	263	271	265	243	256	253	249	3106.061
Total	5070	5926	5876	5384	4983	3654	1686	2347	2478	2352	2743	5050	5070
Total Sold	4985	5823	5779	5316	4879	3651	1715	2270	2411	2309	2660	5004	46802
RVWTP Use/Storage	22.04	35.68	27.64	27.66	40.42	13.19	-46.25	31.54	55.91	2.55	49	39	22.04
Total Use	5007.04	5858.68	5806.64	5343.66	4919.42	3664.19	1668.75	2301.54	2466.91	2311.55	2709	5043	5007.04
Water Loss	-1.24%	-1.14%	-1.18%	-0.75%	-1.28%	0.28%	-1.02%	-1.94%	-0.45%	-1.72%	-1.24%	-0.14%	-1.24%
Recycled Water	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Total
Valencia	59	76	70	64	65	25	2	10	22	8	22	64	487

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

HISTORICAL FY Production 2014-2020



HISTORICAL FY PRODUCTION 2014-2020

2014/15	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total
SCWD	2,912	2,491	2,177	2,110	1,536	746	990	1,036	1,174	1,365	1,458	1,844	19,841
VWC	1,143	897	718	545	410	340	408	398	400	658	587	700	7,203
NCWD	461	410	389	341	268	135	205	200	244	283	253	334	3,524
LACo	0	0	0	0	0	0	0	0	0	0	0	0	3
Total	4,517	3,798	3,285	2,996	2,215	1,221	1,603	1,635	1,818	2,306	2,299	2,879	30,571
Cum. FYTD	4,517	8,315	11,599	14,596	16,811	18,032	19,635	21,270	23,088	25,393	27,692	30,571	
2015/16	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total
SCWD	1,731	1,800	1,616	1,629	1,427	1,180	829	1,060	1,185	1,176	1,612	1,935	17,180
VWC	891	773	583	550	547	364	157	366	412	462	715	1,375	6,995
NCWD	347	373	325	276	233	199	148	195	206	250	319	411	3,282
LACo	0	0	0	0	0	0	0	1	0	0	0	0	1
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	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	968	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
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	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	1,388	2,358	0	20,524
VWD	2,491	2,518	2,348	2,145	1,526	604	957	762	919	1,066	2,171	0	17,507
NWD	721	518	492	422	280	130	188	232	177	226	475	0	3,861
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	0	41,898
Cum. FYTD	5,823	11,602	16,918	21,796	25,448	27,162	29,515	31,926	34,235	36,894	41,898	41,898	

*Total does not include recycled water.

SANTA CLARITA VALLEY WATER AGENCY

Record of Weather Observations

May 2020

DATE	High Temperature	Low Temperature	Precipitation 2020	Precipitation 2019
1-May	84	56	0.00	0.00
2-May	84	51	0.00	0.00
3-May	81	53	0.00	0.00
4-May	90	47	0.00	0.00
5-May	94	47	0.00	0.00
6-May	92	52	0.00	0.01
7-May	96	49	0.00	0.00
8-May	90	51	0.00	0.00
9-May	84	49	0.00	0.00
10-May	77	52	0.00	0.09
11-May	76	56	0.00	0.11
12-May	71	49	0.00	0.00
13-May	73	45	0.00	0.00
14-May	80	48	0.00	0.00
15-May	83	58	0.00	0.00
16-May	84	50	0.00	0.99
17-May	78	54	0.00	0.01
18-May	69	56	0.16	0.00
19-May	68	47	0.00	0.27
20-May	77	46	0.00	0.01
21-May	86	44	0.00	0.00
22-May	76	52	0.00	0.00
23-May	77	48	0.00	0.00
24-May	86	46	0.00	0.00
25-May	93	51	0.00	0.00
26-May	97	54	0.00	0.11
27-May	90	56	0.00	0.00
28-May	85	56	0.00	0.00
29-May	75	55	0.00	0.00
30-May	75	51	0.00	0.00
31-May	80	47	0.00	0.00

TOTAL		0.16	1.60
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	2019-2020	2018-2019
<i>Total Precipitation of Current Month</i>	0.16	1.60
<i>Total Precipitation End of Previous Month</i>	18.66	26.04

Total Precipitation Since October 1st	18.82	27.64
----------------------------------------------	--------------	--------------

<i>Temperature Averages for Current Month</i>	HIGH	82.3	69.9
	LOW	50.8	48.0

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

	<i>1998-99</i>	<i>1999-00</i>	<i>2000-01</i>	<i>2001-02</i>	<i>2002-03</i>	<i>2003-04</i>	<i>2004-05</i>	<i>2005-06</i>	<i>2006-07</i>	<i>2007-08</i>	<i>2008-09</i>
Oct	0.33	0.00	1.13	0.22	0.00	1.10	4.79	1.91	0.42	0.25	0.09
Nov	1.39	0.00	0.00	3.18	3.01	0.63	0.64	0.59	0.05	0.50	1.78
Dec	1.39	0.05	0.00	1.30	5.85	2.57	8.54	0.14	0.83	2.67	3.01
Jan	2.08	1.21	5.84	1.55	0.00	0.65	17.06	3.27	1.66	17.54	0.69
Feb	0.65	9.43	10.76	0.51	9.03	8.07	16.69	3.78	1.38	1.82	6.78
Mar	3.00	3.15	3.38	0.38	2.38	0.37	2.70	5.68	0.17	0.10	1.18
Apr	3.78	2.10	2.56	0.05	2.35	0.20	1.42	4.22	0.71	0.07	0.07
May	0.00	0.00	0.00	0.12	1.70	0.00	0.45	0.99	0.00	0.17	0.01
Jun	0.48	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.03
Jul	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.04	0.00	0.00
Aug	0.00	0.31	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00
Sep	0.01	0.00	0.00	0.02	0.00	0.00	0.17	0.00	1.32	0.00	0.00
TOTAL	13.11	16.25	23.67	7.34	24.34	13.59	52.55	20.58	6.58	23.12	13.64
	<i>2009-10</i>	<i>2010-11</i>	<i>2011-12</i>	<i>2012-13</i>	<i>2013-14</i>	<i>2014-15</i>	<i>2015-16</i>	<i>2016-17</i>	<i>2017-18</i>	<i>2018-19</i>	<i>2019-20</i>
Oct	4.04	1.34	1.97	0.15	0.11	0.32	0.17	0.43	0.00	0.52	0.01
Nov	0.08	1.87	2.50	2.20	1.41	0.64	0.21	1.49	0.06	1.87	2.61
Dec	4.28	11.97	1.19	1.54	0.37	6.16	0.49	3.44	0.01	2.77	5.12
Jan	9.13	0.96	1.23	1.94	0.06	1.44	6.07	10.30	3.18	8.08	0.54
Feb	4.96	5.36	0.13	0.42	5.26	0.74	0.69	8.98	0.35	8.56	0.12
Mar	0.69	8.86	4.99	1.21	1.64	1.09	2.75	0.33	7.50	4.15	5.81
Apr	2.40	0.12	4.02	0.00	0.31	0.16	0.37	0.09	0.02	0.09	4.45
May	0.07	0.74	0.01	0.74	0.00	0.66	0.09	0.26	0.01	1.60	0.16
Jun	0.00	0.04	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.01	
Jul	0.00	0.01	0.00	0.08	0.02	0.87	0.00	0.01	0.00	0.00	
Aug	0.00	0.00	0.01	0.00	0.05	0.00	0.02	0.07	0.00	0.00	
Sep	0.00	0.00	0.02	0.00	0.00	0.78	0.00	0.13	0.02	0.03	
TOTAL	25.65	31.27	16.07	8.28	9.23	12.87	10.87	25.53	11.15	27.68	18.82

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	0	0	0	0	0	0	0	579
N13	120	126	111	109	127	0	0	0	0	0	0	0	593
C1	19	27	17	29	53	0	0	0	0	0	0	0	146
C2	13	14	9	14	27	0	0	0	0	0	0	0	77
C7	35	37	25	38	71	0	0	0	0	0	0	0	205
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	0	0	0	0	0	0	0	1601

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	0	0	0	0	0	0	0	64
LOST CANYON NO.2A	70	45	13	18	62	0	0	0	0	0	0	0	208
SAND CANYON	80	50	15	20	66	0	0	0	0	0	0	0	231
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	0	0	0	0	0	0	0	55
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	0	0	0	0	0	0	0	162
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	0	0	0	0	0	0	0	814

VALENCIA WATER DIVISION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
D	20	56	20	23	71	0	0	0	0	0	0	0	190
E15	25	103	33	39	92	0	0	0	0	0	0	0	292
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	0	0	0	0	0	0	0	178
W9	51	87	57	70	93	0	0	0	0	0	0	0	357
W10	75	63	10	0	0	0	0	0	0	0	0	0	148
159 (GOLF COURSE IRRIGATION)	0	1	0	1	4	0	0	0	0	0	0	0	6
160 (SYSTEM)	1	2	2	2	2	0	0	0	0	0	0	0	9
160 (GOLF COURSE IRRIGATION)	20	29	11	38	73	0	0	0	0	0	0	0	171
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	0	0	0	0	0	0	0	392
207	78	116	62	109	150	0	0	0	0	0	0	0	515
TOTAL VWD	575	956	362	438	680	0	0	0	0	0	0	0	3012

S1	137	129	131	131	132	0	0	0	0	0	0	0	660
S2	128	114	125	122	117	0	0	0	0	0	0	0	605
TOTAL S1 & S2	265	243	256	253	249	0	0	0	0	0	0	0	1265

TOTAL WELL PRODUCTION	1367	1739	915	1049	1621	0	0	0	0	0	0	0	6691
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WELL 201 (NON-SYSTEM)	107	61	108	103	102	0	0	0	0	0	0	0	481
VALLEY CENTER (NON-SYSTEM)	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Q2 (NON-SYSTEM)	0.12	0.03	0.05	0.05	0.13	0	0	0	0	0	0	0	0.38
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	0	0	0	0	0.06
S8 (NON-SYSTEM)	0	0	0	0.19	0.2273	0	0	0	0	0	0	0	0.42
W10 (NON-SYSTEM)	0	0	0	0.25	0.1125	0	0	0	0	0	0	0	0.36

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								579
N13	120	126	111	109	127								593
CASTAIC SYSTEM													
C1	19	27	17	29	53								146
C2	13	14	9	14	27								77
C7	35	37	25	38	71								205
PINETREE SYSTEM													
P1	0	0	0	0	0								0
P3	0	0	0	0	0								0
P4	0	0	0	0	0								0
P5	0	0	0	0	0								0
S1 & S2	71	65	68	68	67								339
TOTAL GROUNDWATER	362	377	326	352	523	0	0	0	0	0	0	0	1940
IMPORT + S1 & S2													
NEWHALL SYSTEM													
N-3	8	30	10	41	110								199
CASTAIC SYSTEM													
N-1	25	27	36	20	45								153
PINETREE SYSTEM													
N-2	102	119	88	108	199								616
TESORO SYSTEM													
N-4	53	56	43	57	120								329
TOTAL IMPORT + S1 & S2	188	232	177	226	475	0	0	0	0	0	0	0	1298
TOTAL GROUNDWATER (INCLUDES S1 & S2)	362	377	326	352	523	0	0	0	0	0	0	0	1940
TOTAL IMPORT (NO S1 & S2)	117	167	109	158	408	0	0	0	0	0	0	0	959
TOTAL GROSS PRODUCTION (GW + IMPORT)	479	544	434	510	931	0	0	0	0	0	0	0	2899
TOTAL INTERTIE TRANSFERS	0	11	0	0	0								11
TOTAL NET PRODUCTION	479	555	434	510	931	0	0	0	0	0	0	0	2909
% BY SOURCE													
GROUNDWATER	76%	68%	75%	69%	56%								67%
IMPORT	24%	30%	25%	31%	44%								33%
INTERTIE	0%	2%	0%	0%	0%								0%

**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								64
LOST CANYON NO.2A	70	45	13	18	62								208
SAND CANYON	80	50	15	20	66								231
MITCHELL 5A	0	0	0	0	0								0
MITCHELL 5B	0	0	1	1	0								2
SIERRA	7	18	6	11	13								55
NORTH OAKS EAST	0	0	0	0	0								0
NORTH OAKS CENTRAL	1	3	1	0	0								5
NORTH OAKS WEST	0	0	0	0	0								0
HONBY	1	15	0	0	0								16
GUIDA	24	46	0	23	69								162
CLARK	17	29	1	0	0								47
SANTA CLARA	1	20	3	0	0								24
VALLEY CENTER	0	0	0	0	0								0
TOTAL ALLUVIUM	237	228	40	73	236	0	0	0	0	0	0	0	814
SAUGUS WELLS S1 & S2	194	178	187	185	182								926
TOTAL GROUNDWATER	431	406	227	258	418	0	0	0	0	0	0	0	1740
IMPORT + S1 & S2	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
SC-1 BOUQUET	129	99	161	164	184								738
SC-2 HONBY	174	260	211	225	360								1229
SC-3 WILEY	97	103	93	112	148								554
SC-4 HONBY #2	211	94	161	224	373								1064
SC-5 RIO VISTA	138	176	111	116	238								779
SC-6 LOST CANYON	76	104	64	90	170								503
SC-7	104	128	46	42	105								424
SC-8	130	184	157	164	309								944
SC-9	93	89	32	47	90								351
SC-10	25	55	23	20	52								176
SC-11	1	2	1	1	1								5
SC-12	10	87	150	155	169								571
SC-13	20	36	3	8	157								223
TOTAL IMPORT + S1 & S2	1207	1,416	1,212	1,368	2,358	0	0	0	0	0	0	0	7,560
METERING ADJUSTMENT	-6.7	0.01	0	0	0								-7
NET IMPORT + S1 & S2	1,201	1,416	1,212	1,368	2,358	0	0	0	0	0	0	0	7,554
TOTAL GROUNDWATER (INCLUDES S1 & S2)	431	406	227	258	418	0	0	0	0	0	0	0	1740
TOTAL IMPORT (NO S1 & S2)	1,014	1,238	1,025	1,183	2,176	0	0	0	0	0	0	0	6,634
TOTAL GROSS PRODUCTION (GW + IMPORT)	1,444	1,644	1,252	1,441	2,594	0	0	0	0	0	0	0	8,374
TOTAL INTERTIE TRANSFERS	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL NET PRODUCTION	1,444	1,644	1,252	1,441	2,594	0	0	0	0	0	0	0	8,374
% BY SOURCE													
GROUNDWATER	30%	25%	18%	18%	16%								21%
IMPORT	70%	75%	82%	82%	84%								79%
INTERTIE	0%	0%	0%	0%	0%								0%
VALLEY CENTER (NON-SYSTEM) *	0.00	0.00	0.00	0.00	0.00								0.00

* 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								190
E15	25	103	33	39	92								292
N	53	69	19	0	0								141
N7	29	120	9	0	0								157
N8	89	108	14	0	0								211
Q2	0	0	0	0	0								0
T7	3	19	2	0	0								23
U6	1	7	5	47	83								142
U4	1	4	0	0	0								6
S6	0	0	0	0	0								0
S7	13	31	0	0	0								44
S8	9	14	6	0	0								29
W11	40	29	18	36	55								178
W9	51	87	57	70	93								357
W10	75	63	10	0	0								148
TOTAL ALLUVIUM	408	711	192	214	393	0	0	0	0	0	0	0	1918
SAUGUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
159	0	1	0	1	4								6
160 - DOM	1	2	2	2	2								9
160 - VGC*	20	29	11	38	73								171
201	0	0	0	0	0								0
205	0	0	0	0	0								0
206	68	98	95	74	58								392
207	78	116	62	109	150								515
TOTAL SAUGUS	167	246	170	224	287	0	0	0	0	0	0	0	1094
IMPORT WATER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
V-1	143	65	126	146	197								677
V-2	139	284	138	211	514								1286
V-4	105	1	68	90	402								667
V-5	246	161	179	188	276								1050
V-6	85	198	134	133	185								735
V-7	23	3	15	12	78								131
V-8	217	50	259	285	520								1330
TOTAL IMPORT	957	762	919	1,066	2,171	0	0	0	0	0	0	0	5,875
TOTAL GROUNDWATER	575	956	362	438	680	0	0	0	0	0	0	0	3,012
TOTAL IMPORT	957	762	919	1,066	2,171	0	0	0	0	0	0	0	5,875
TOTAL GROSS PRODUCTION	1,531	1,718	1,282	1,505	2,851	0	0	0	0	0	0	0	8,887
TOTAL INTERTIE TRANSFERS	0	-11	0	0	0								-11
TOTAL NET PRODUCTION	1,531	1,707	1,282	1,505	2,851	0	0	0	0	0	0	0	8,876
% BY SOURCE													
GROUNDWATER	37%	55%	28%	27%	22%								33%
IMPORT WATER	63%	45%	72%	73%	78%								67%
INTERTIE	0%	-1%	0%	0%	0%								0%
RECYCLED WATER	10	22	8	22	64								126
Well 201 Discharge *	107	61	108	103	102								481
Well Q2 Non-System *	0.12	0.03	0.05	0.05	0.13								0.38
Well 205 Non-System *	0	0	0	0	0								0.00
Well N Non-System *	0	0	0.06	0	0								0.06
Well S8 Non-System *	0	0	0	0.19	0.23								0.42
Well W10 Non-System *	0	0	0	0.25	0.11								0.36

*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
LA 2	0.7764	0.4818	0.3621	0.4082	0.2793								2.31
TOTAL	0.7764	0.4849	0.3621	0.4082	0.2793	0	0	0	0	0	0	0.00	2.31

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								12,995.48
ESTP	708	0	0	0	0								708.20
Wells	265	243	256	253	249								1,264.72
TOTAL	2,347	2,478	2,351	2,742	5,049	0	0	0	0	0	0	0	14,968.40

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								659.91
S2	127.54	114.13	125.05	121.57	116.52								604.81
TOTAL	264.67	243.22	255.56	252.54	248.72	0	0	0	0	0	0	0	1264.72

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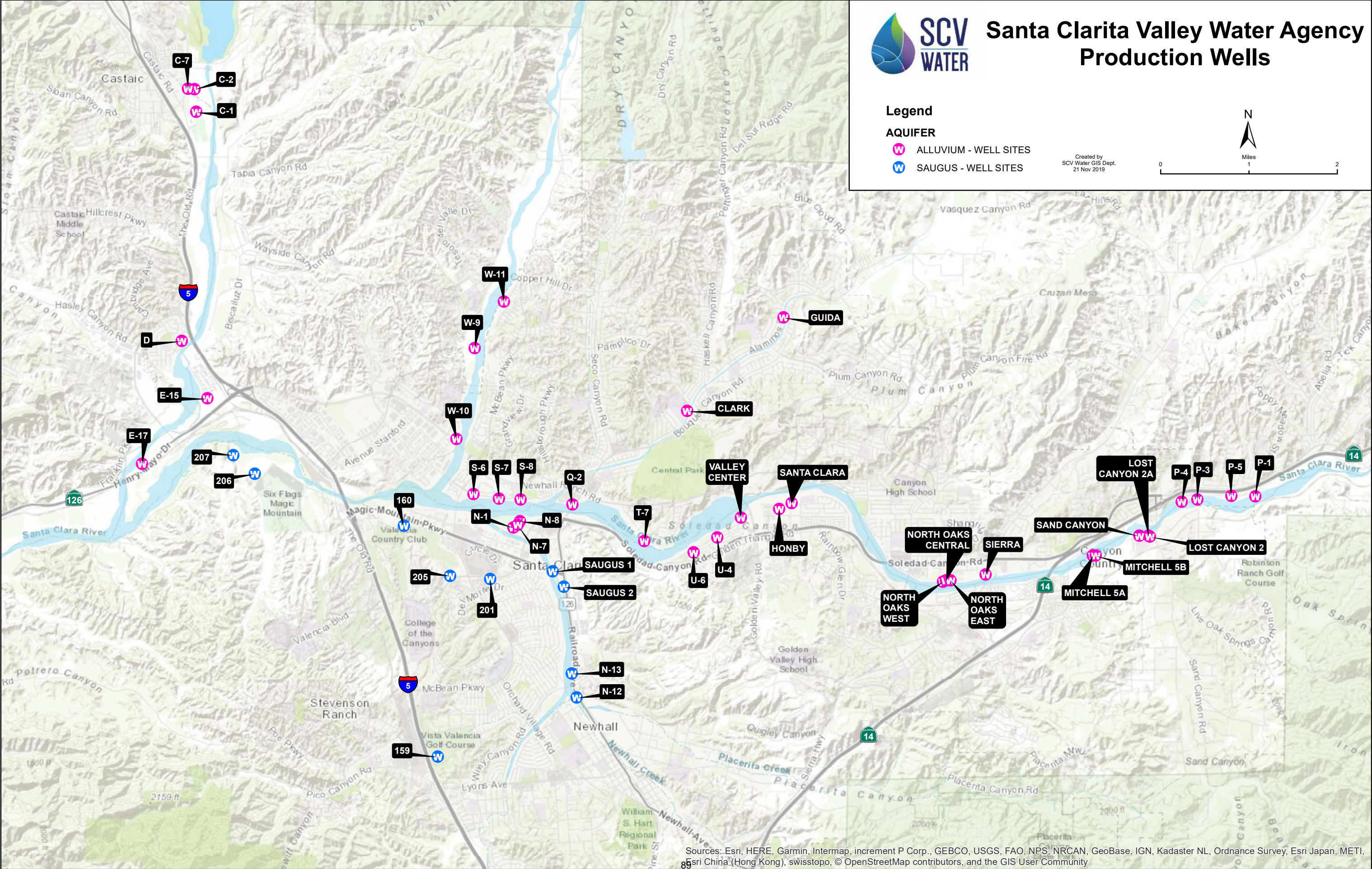
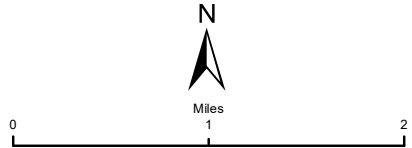


Santa Clarita Valley Water Agency Production Wells

Legend

- AQUIFER**
- ALLUVIUM - WELL SITES
 - SAUGUS - WELL SITES

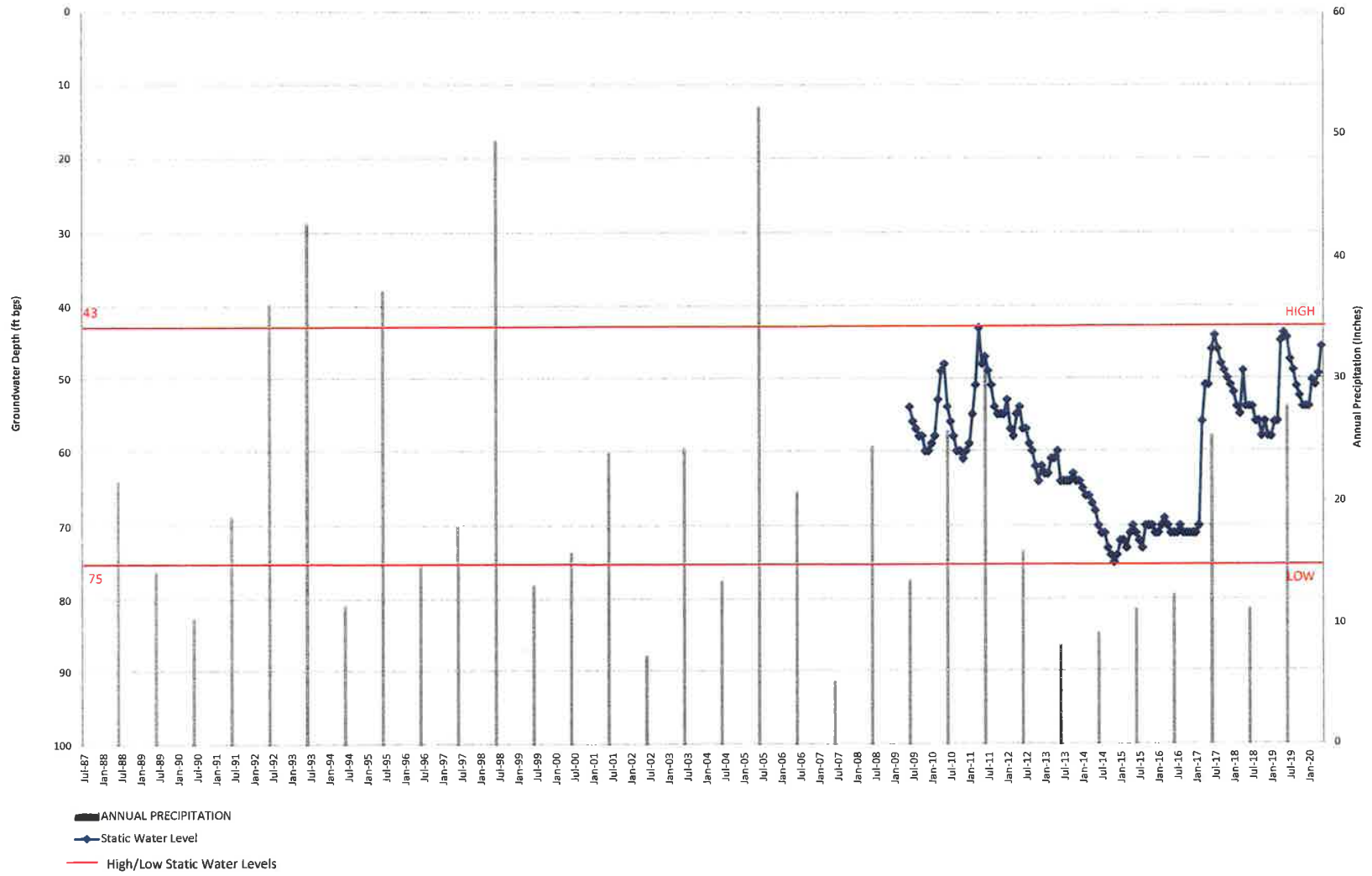
Created by
SCV Water GIS Dept.
21 Nov 2019



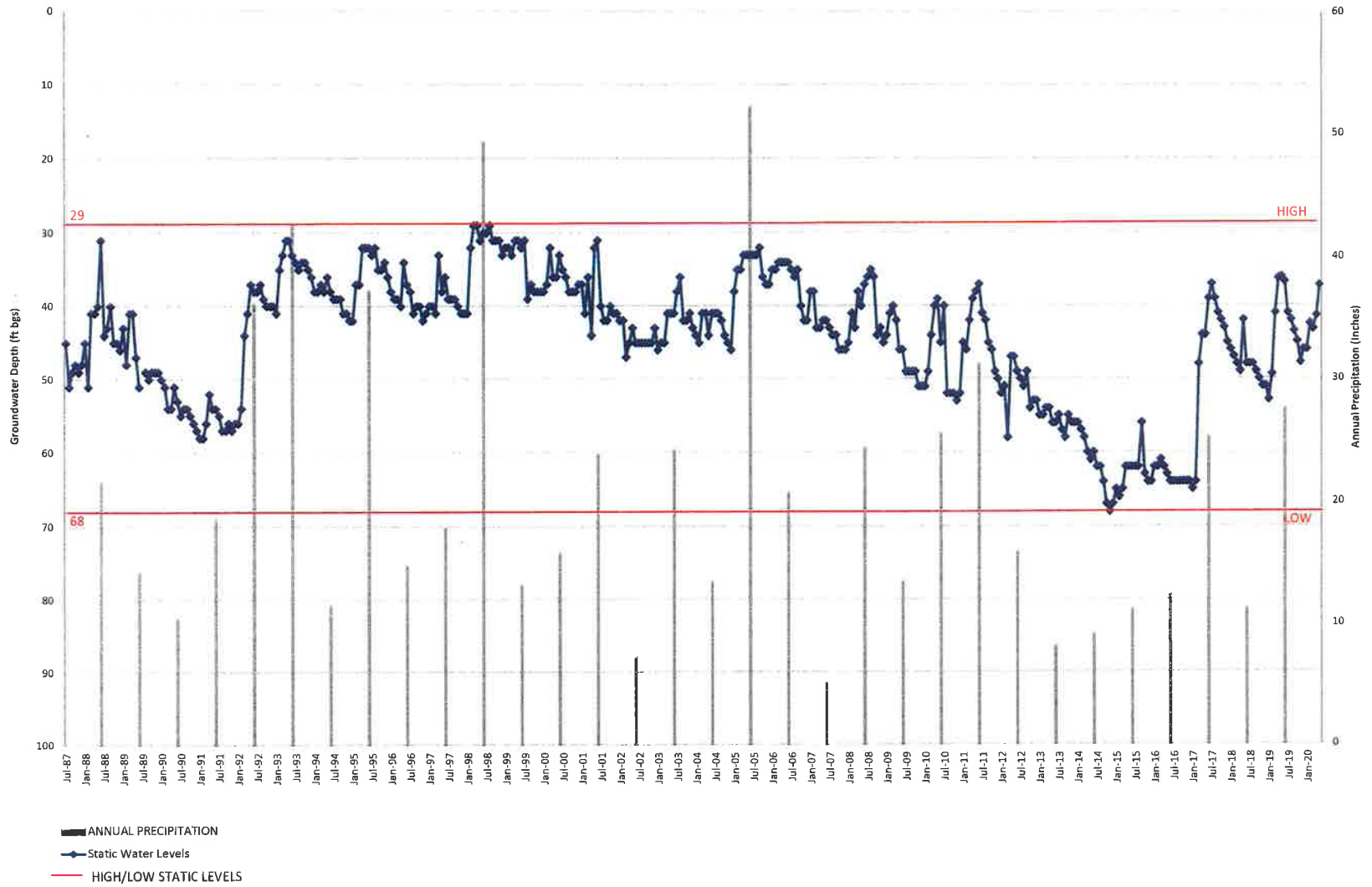
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

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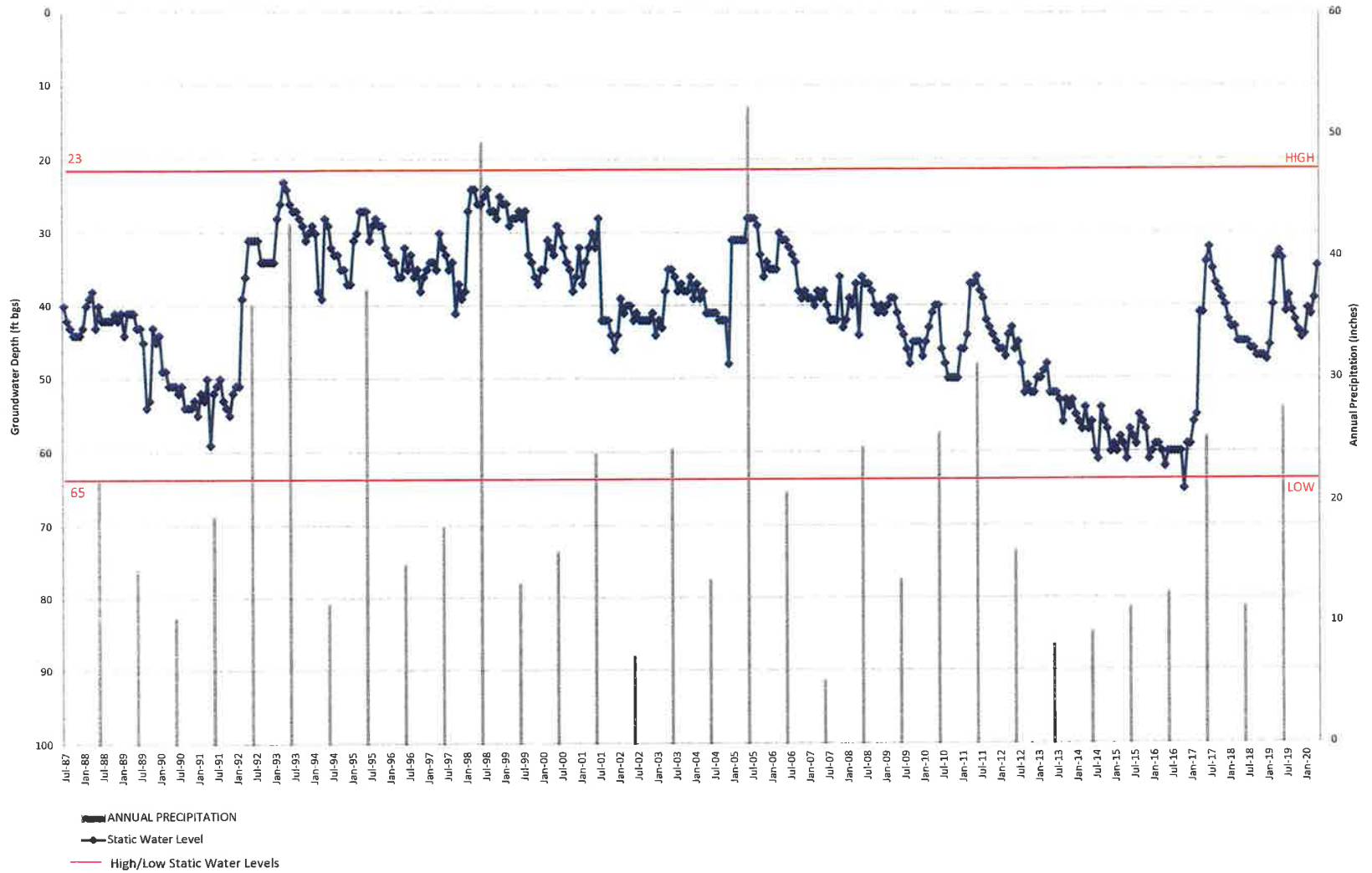
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STATIC WATER LEVEL VS PRECIPITATION



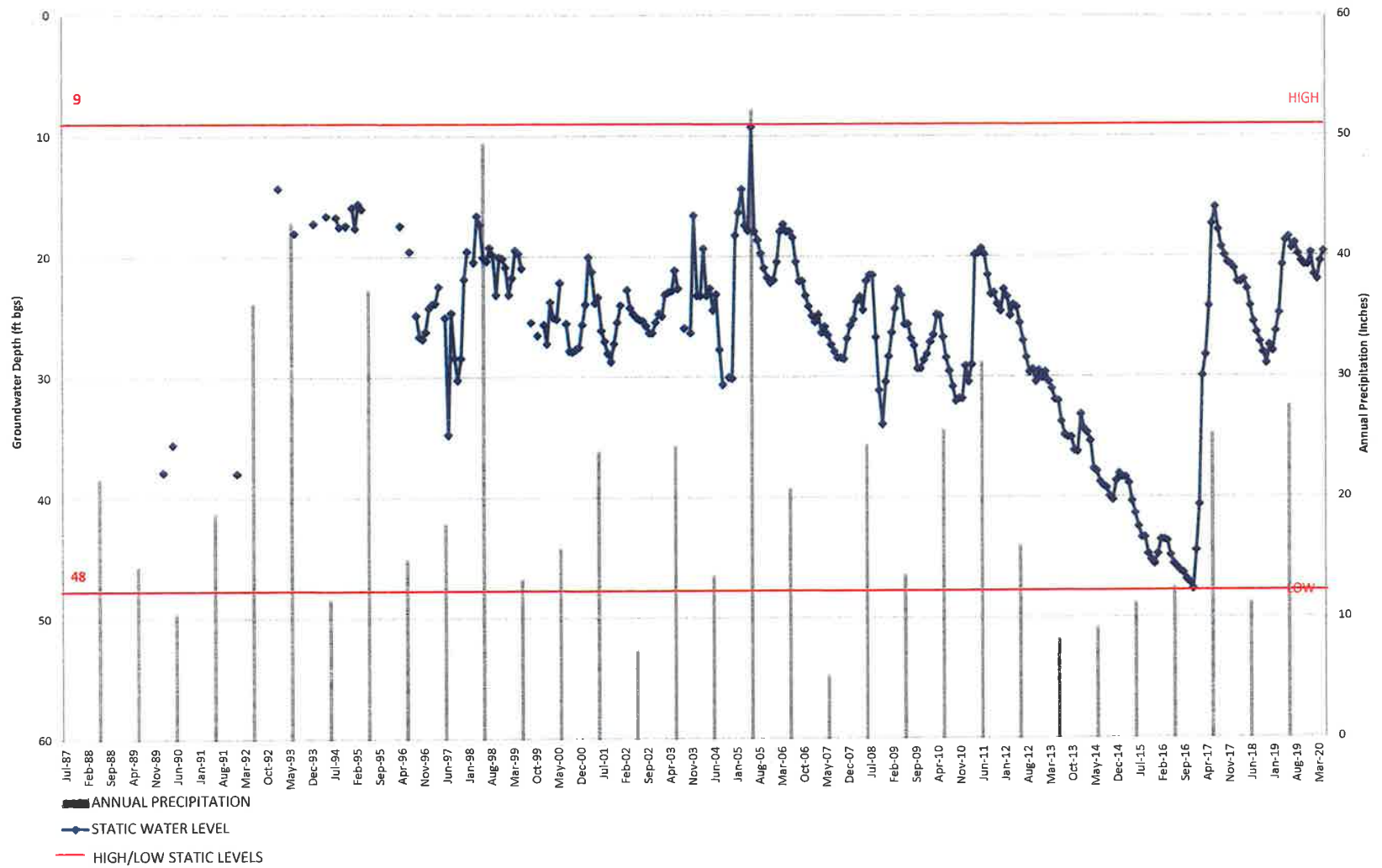
SCV WATER WELL C2
 STATIC WATER LEVEL VS PRECIPITATION



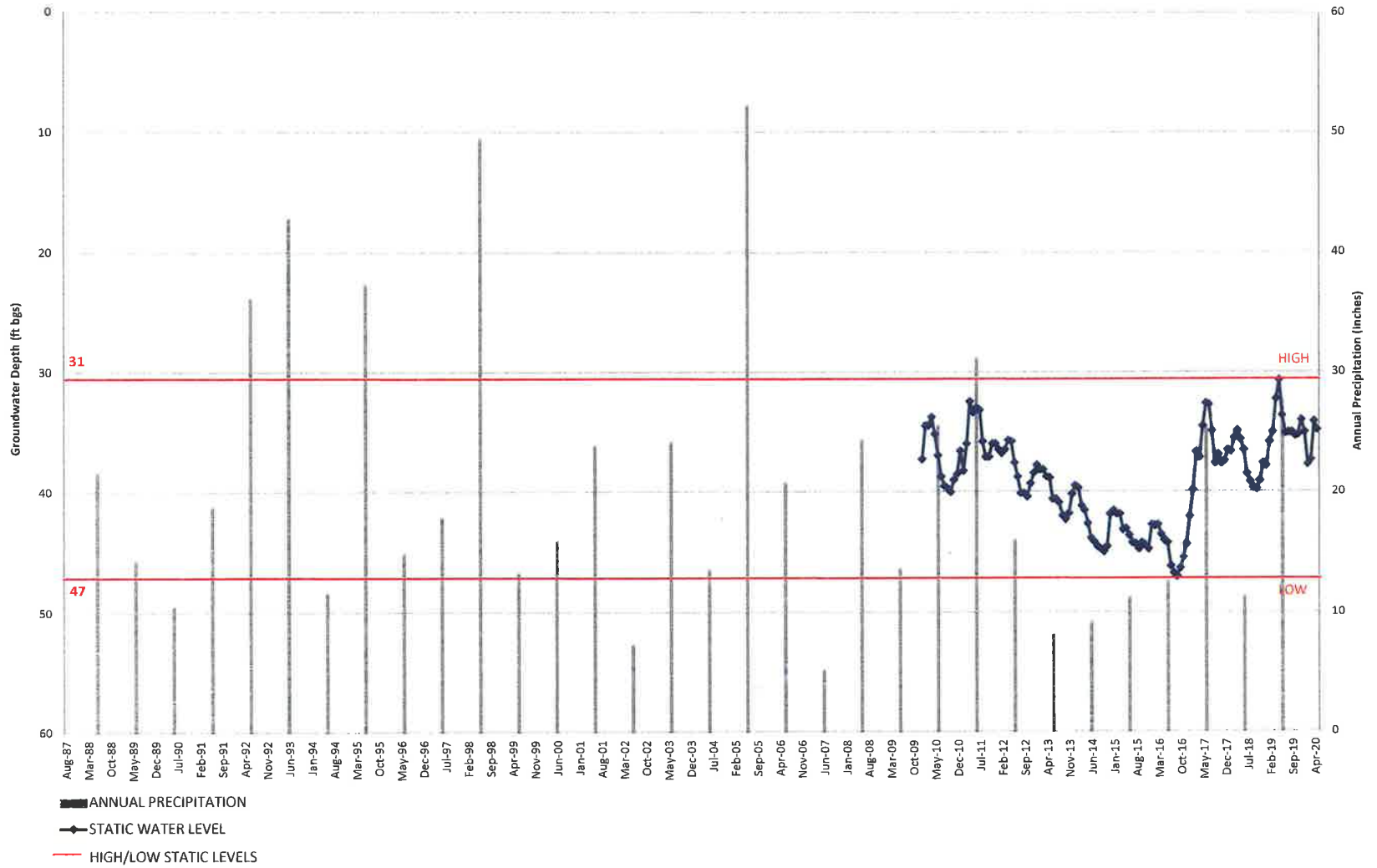
SCV WATER WELL C1
 STATIC WATER LEVEL VS PRECIPITATION



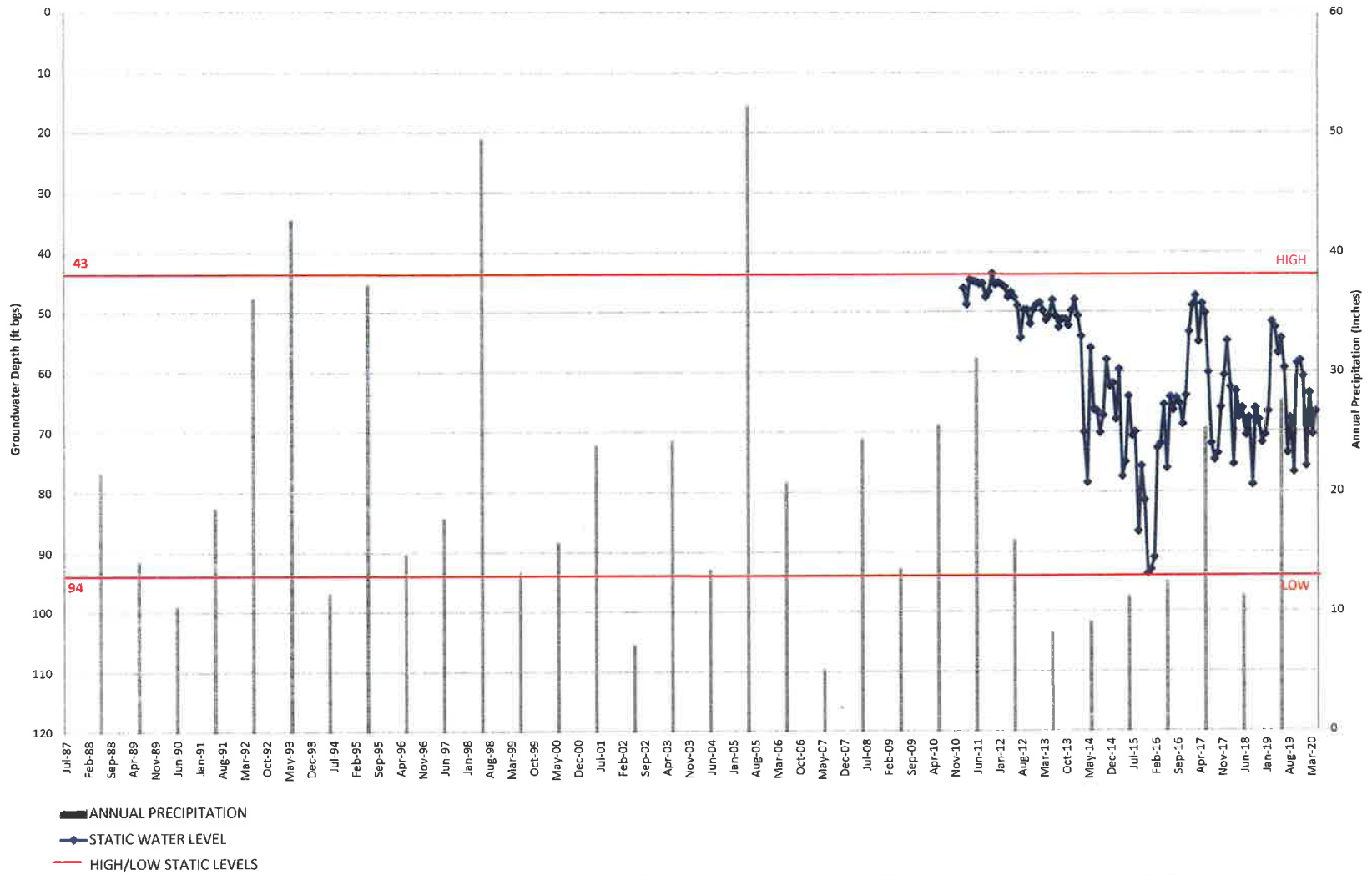
SCV WATER WELL D
 STATIC WATER LEVEL VS PRECIPITATION



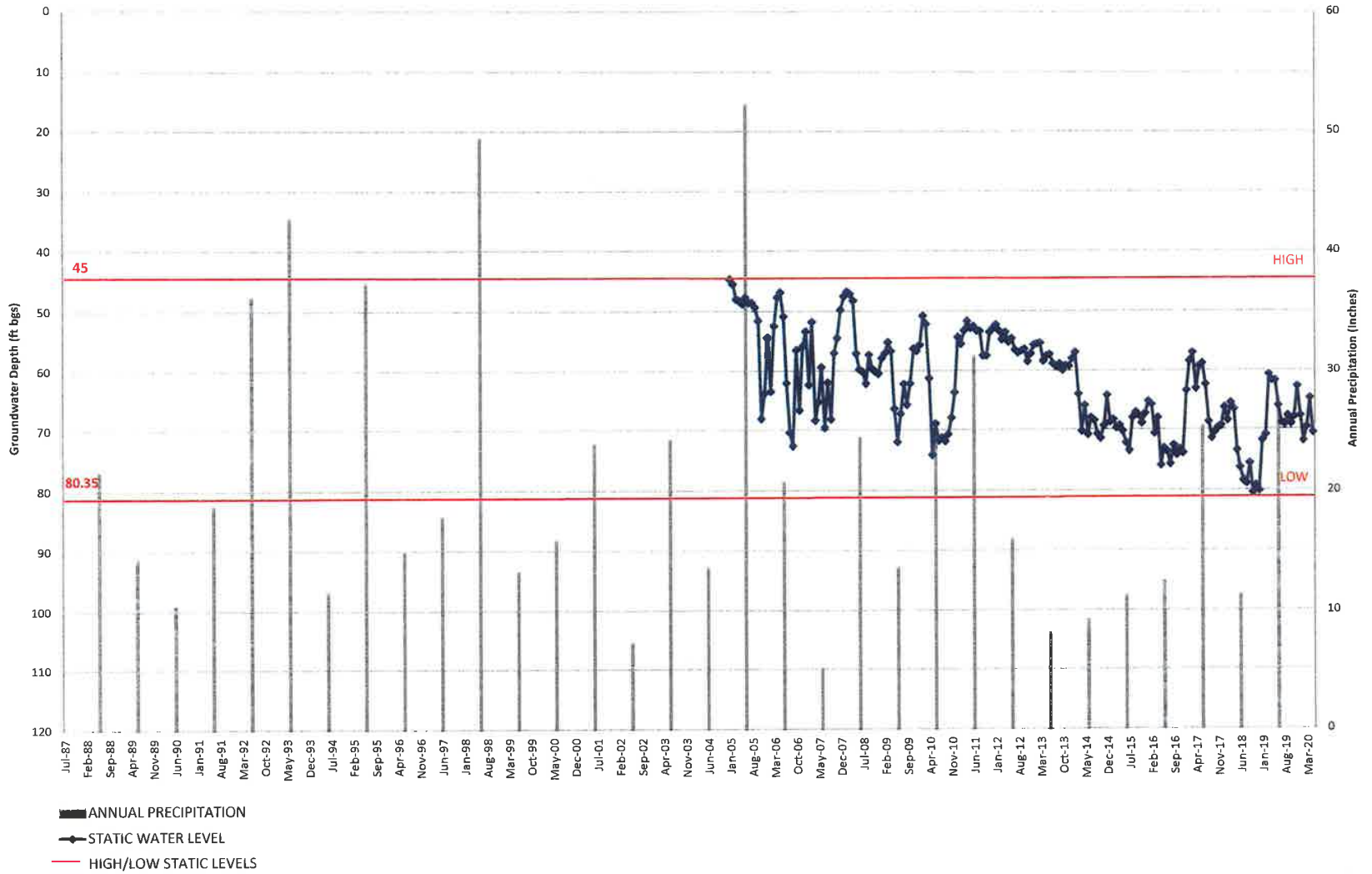
SCV WATER WELL E15
STATIC WATER LEVEL VS. PRECIPITATION



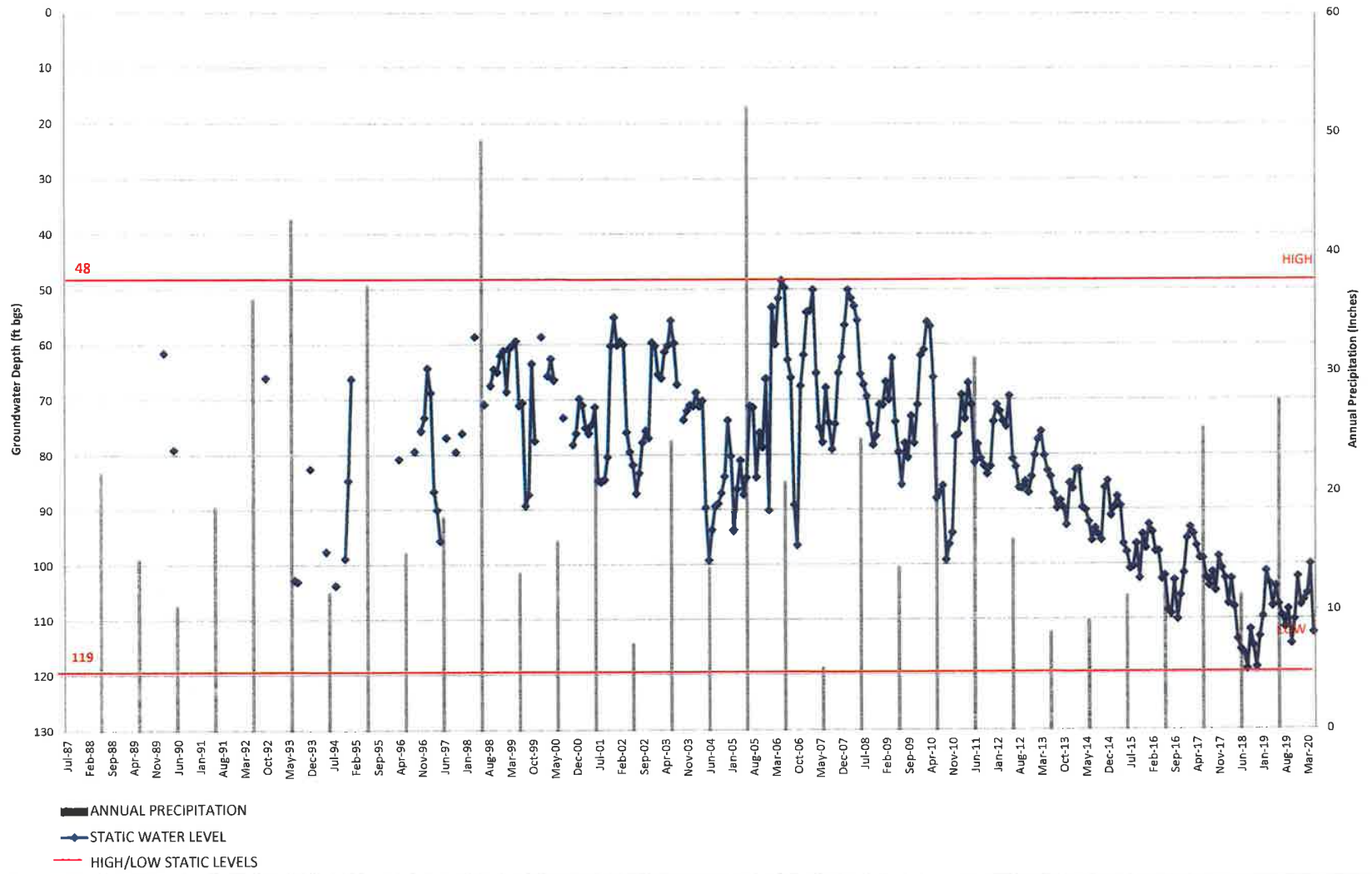
SCV WATER WELL 207
STATIC WATER LEVEL VS PRECIPITATION



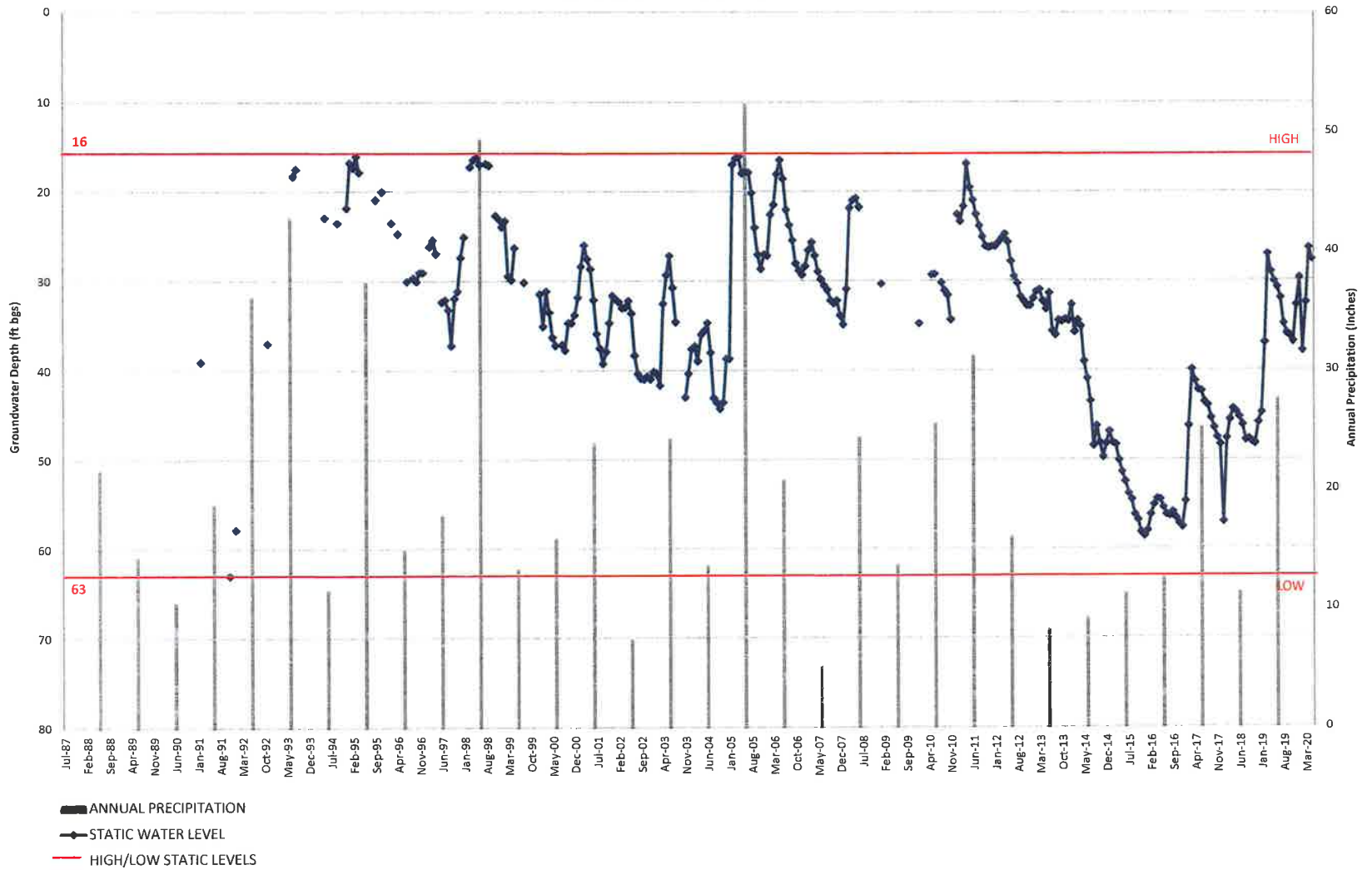
SCV WATER WELL 206
STATIC WATER LEVEL VS PRECIPITATION



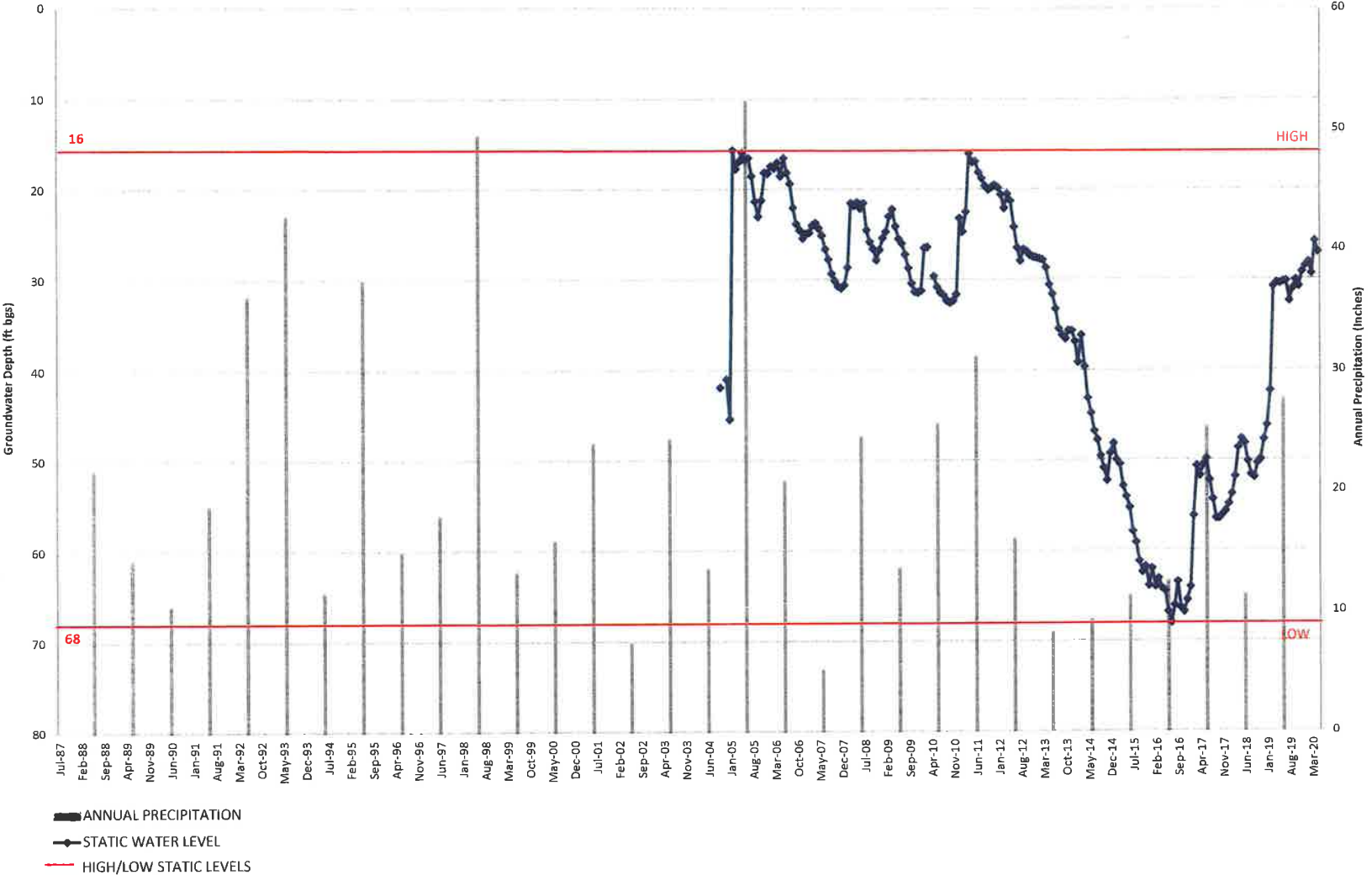
SCV WATER WELL 160
 STATIC WATER LEVEL VS PRECIPITATION



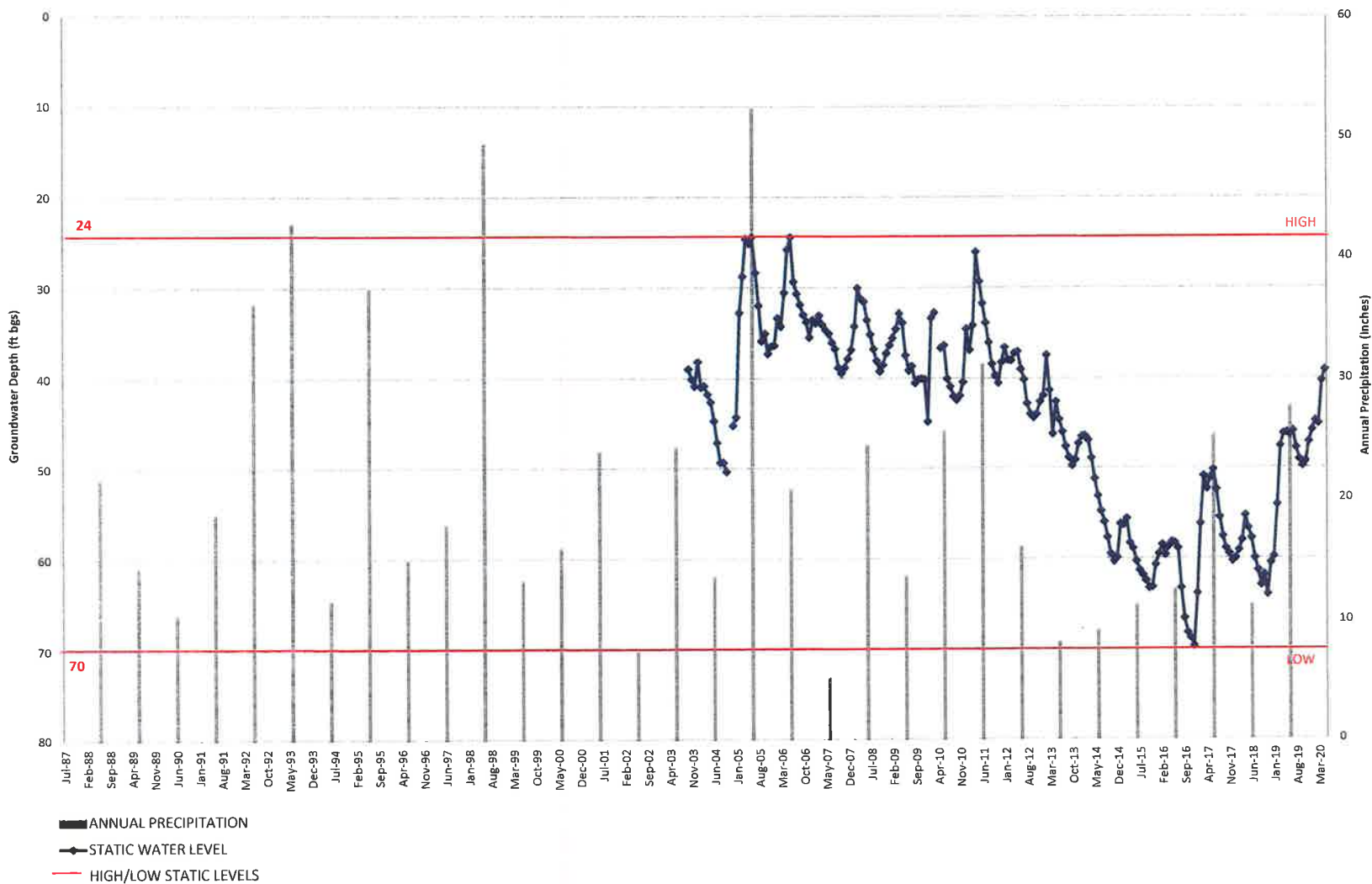
SCV WATER WELL W9
STATIC WATER LEVEL VS PRECIPITATION



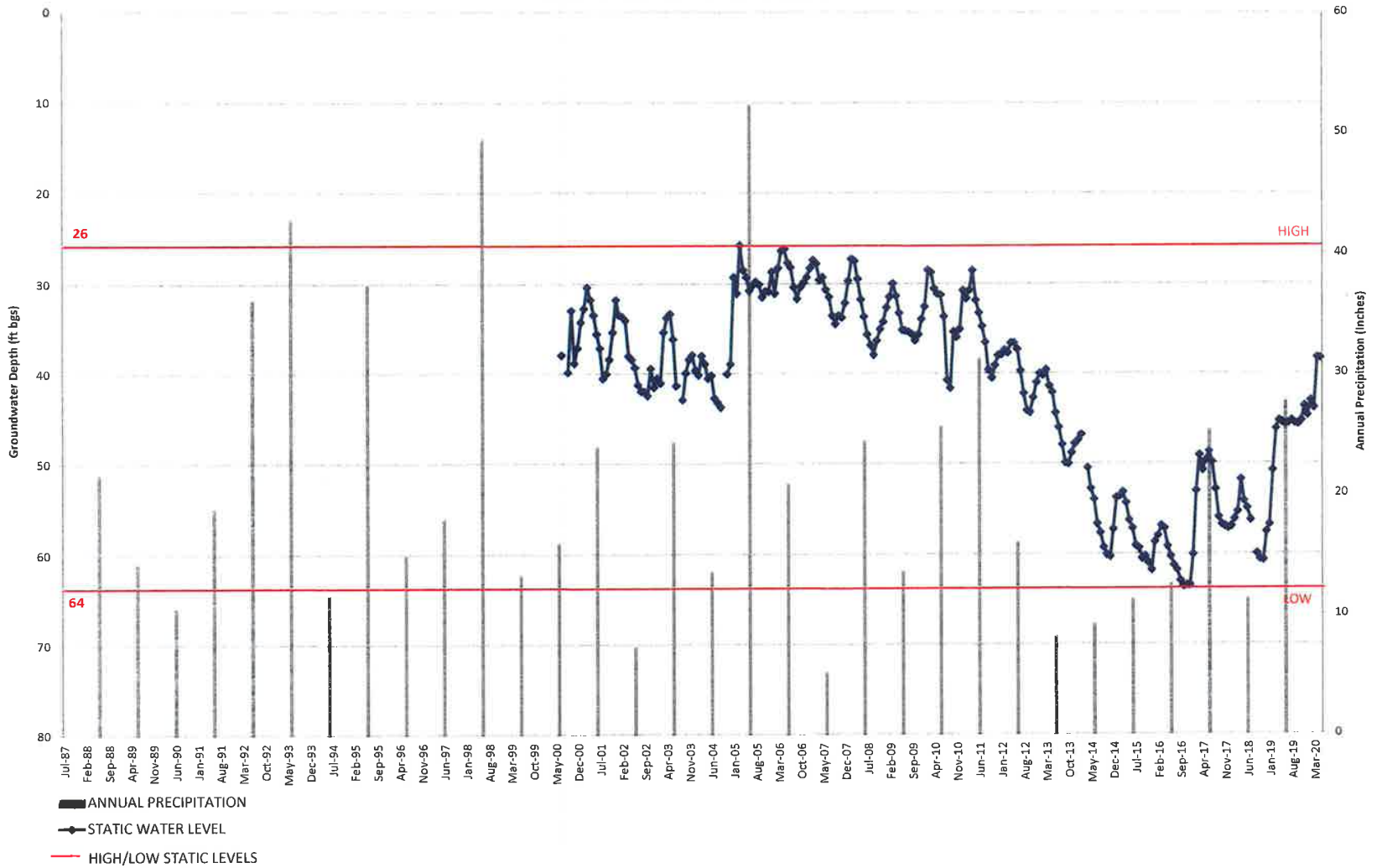
SCV WATER WELL W11
 STATIC WATER LEVEL PRECIPITATION



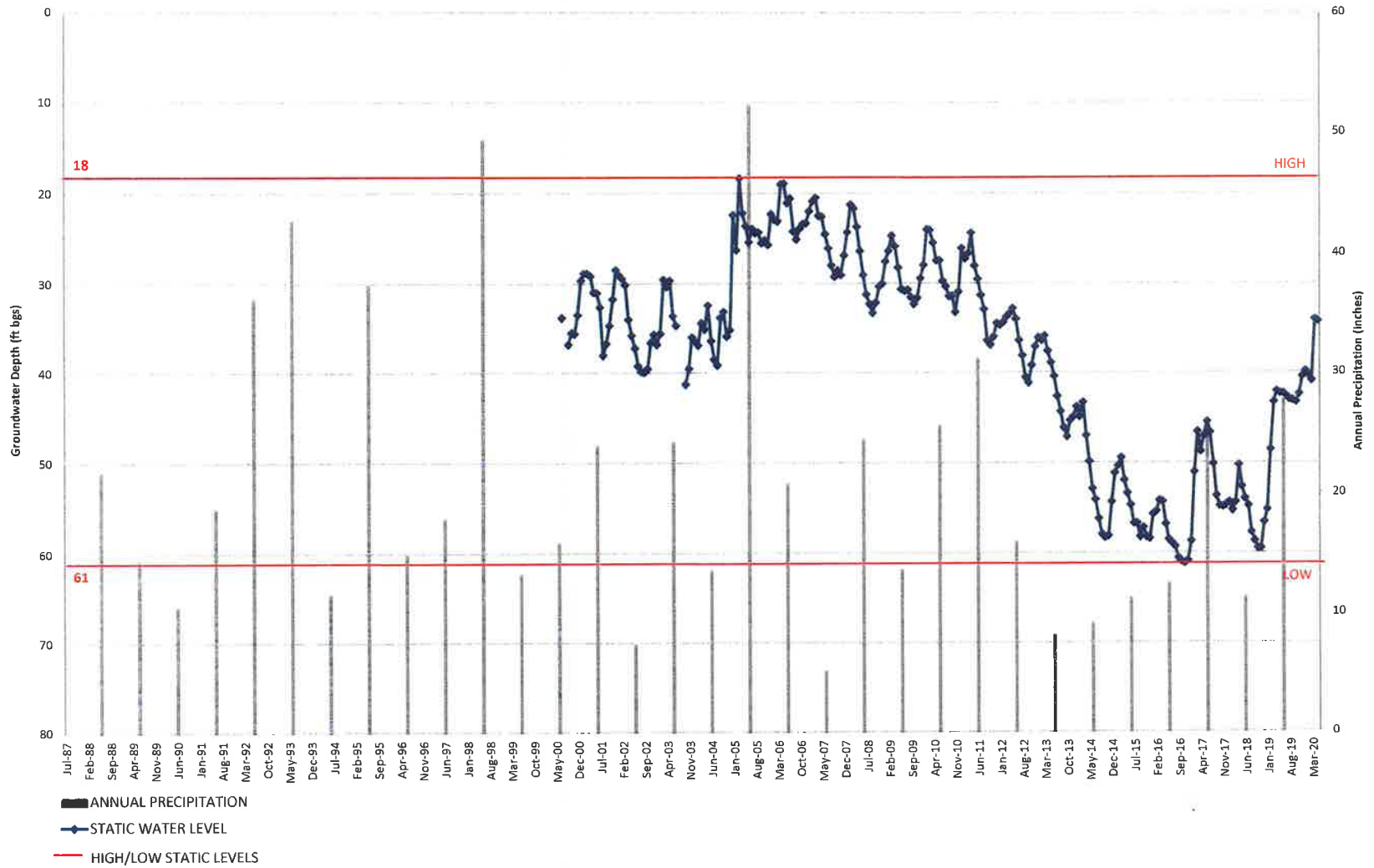
SCV WATER WELL W10
STATIC WATER LEVEL VS PRECIPITATION



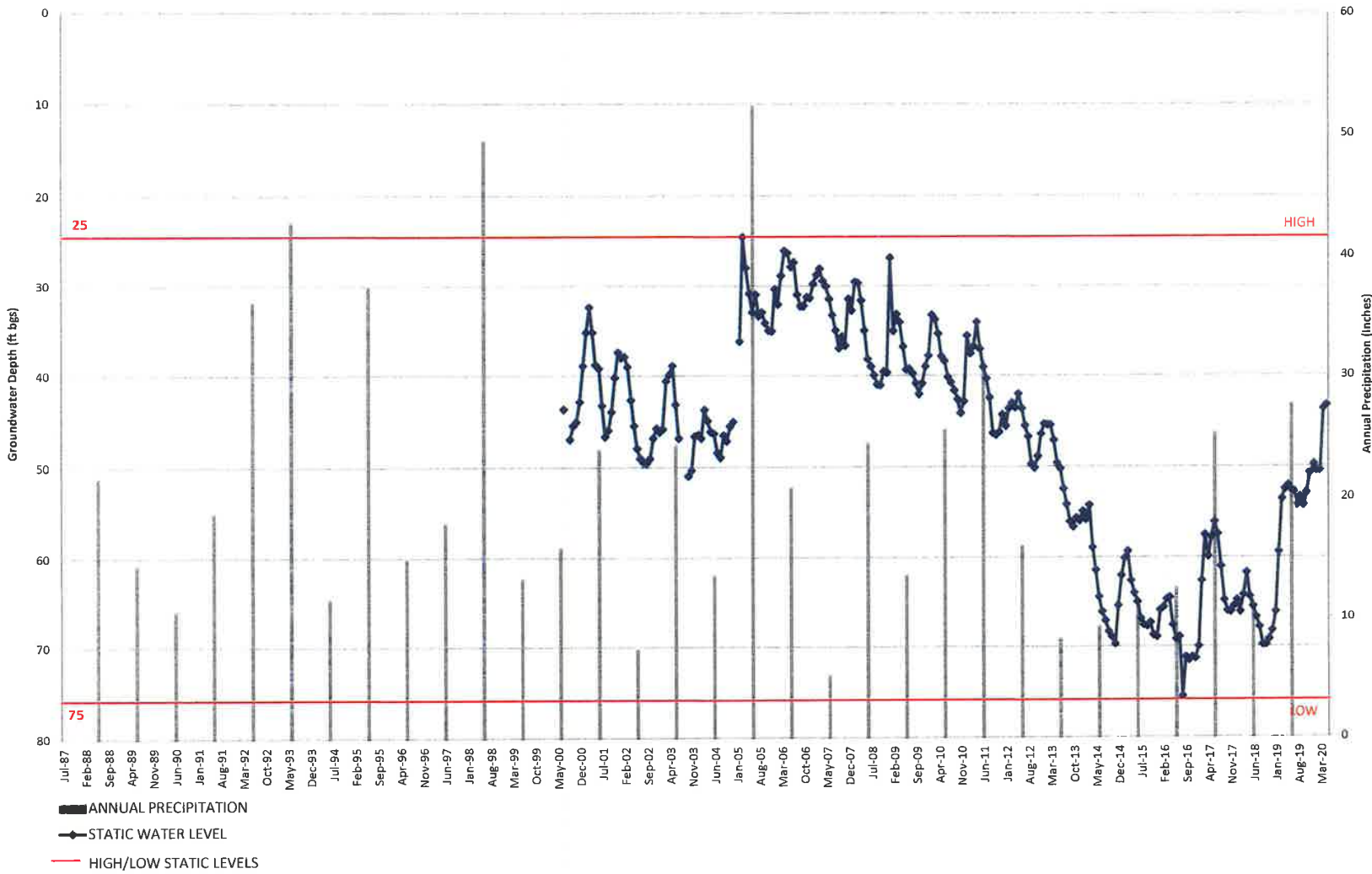
SCV WATER WELL S6
 STATIC WATER LEVEL VS PRECIPITATION



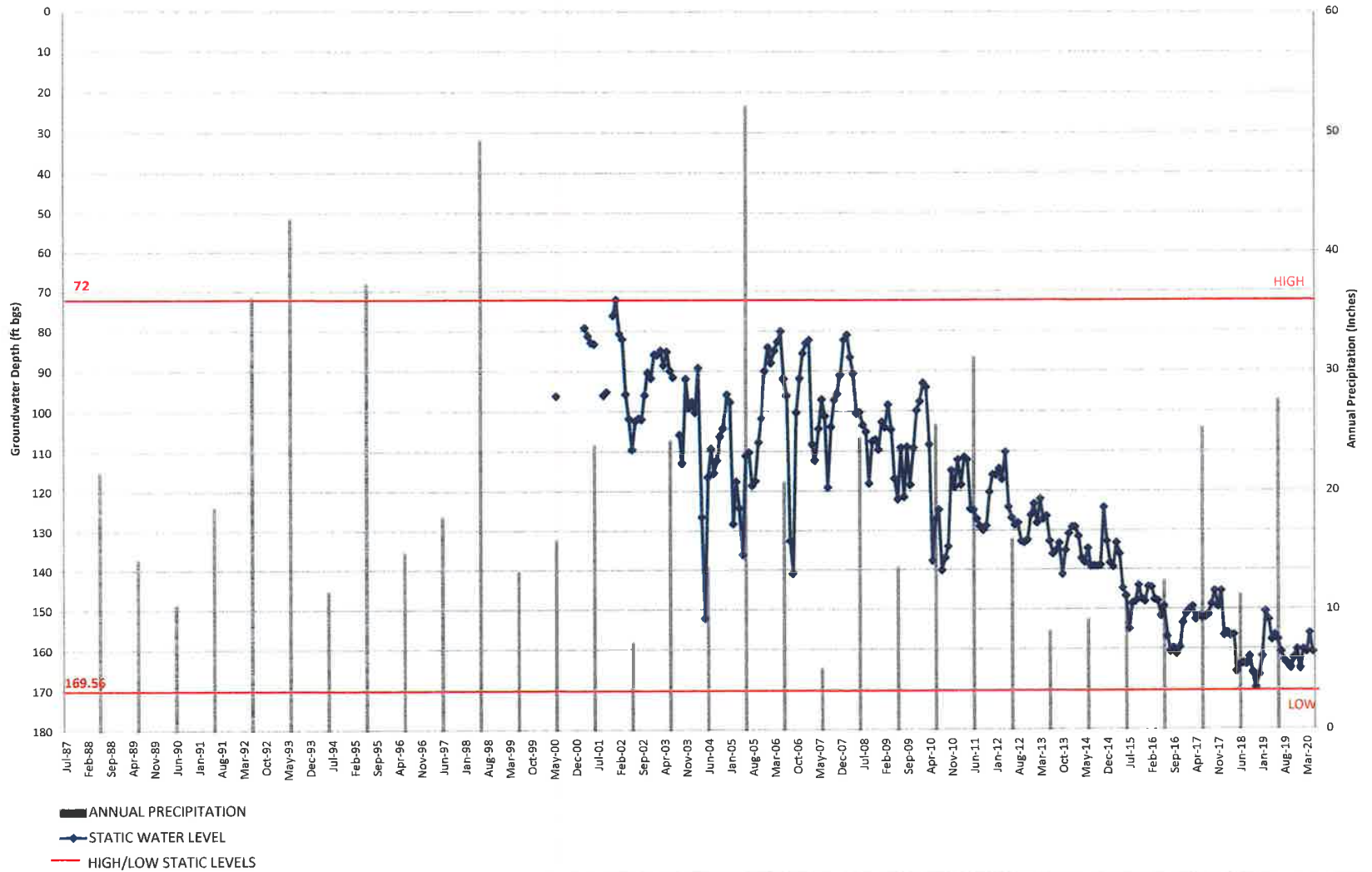
SCV WATER WELL S7
STATIC WATER LEVEL VS PRECIPITATION



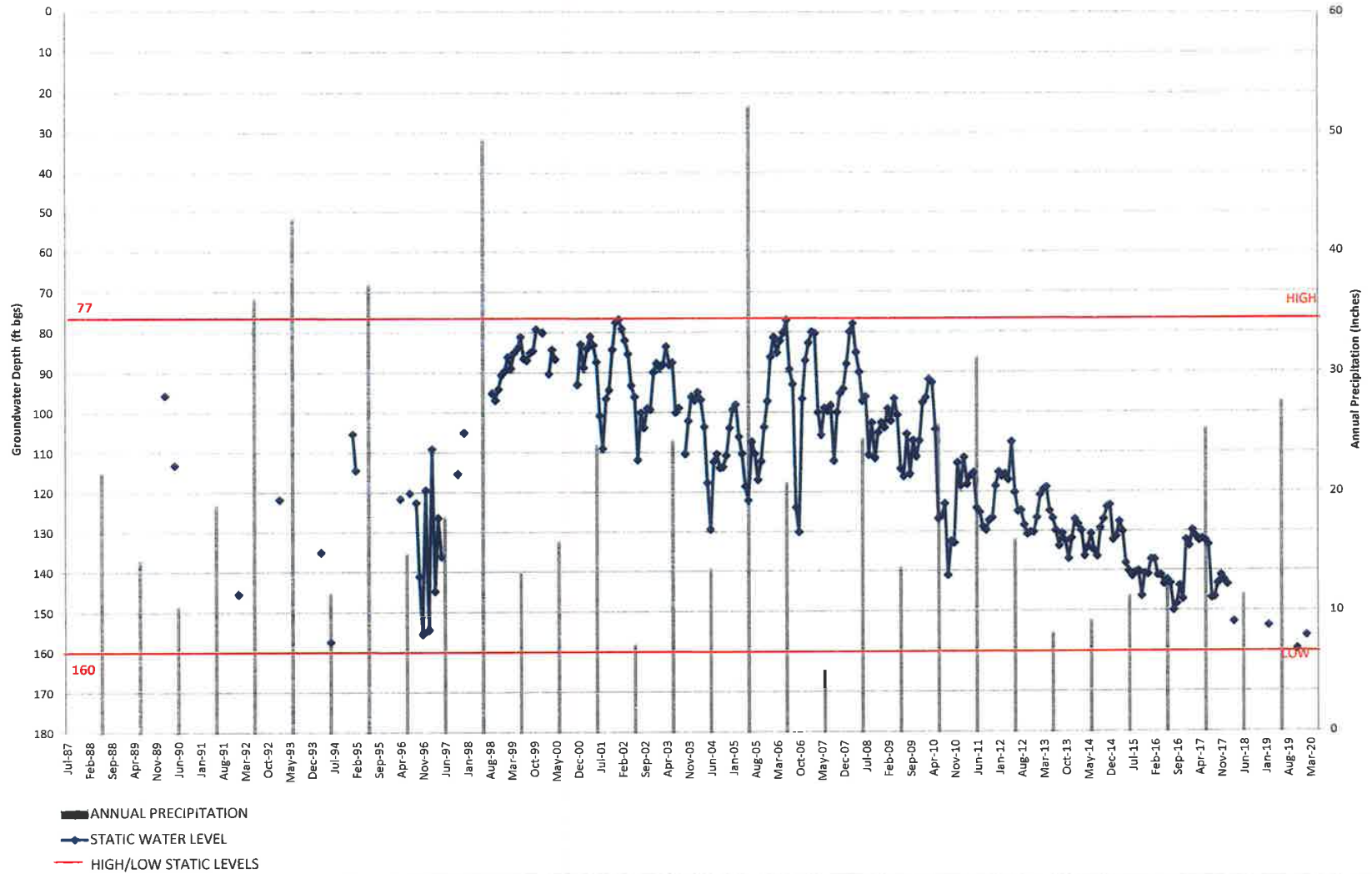
SCV WATER WELL S8
 STATIC WATER LEVEL VS PRECIPITATION



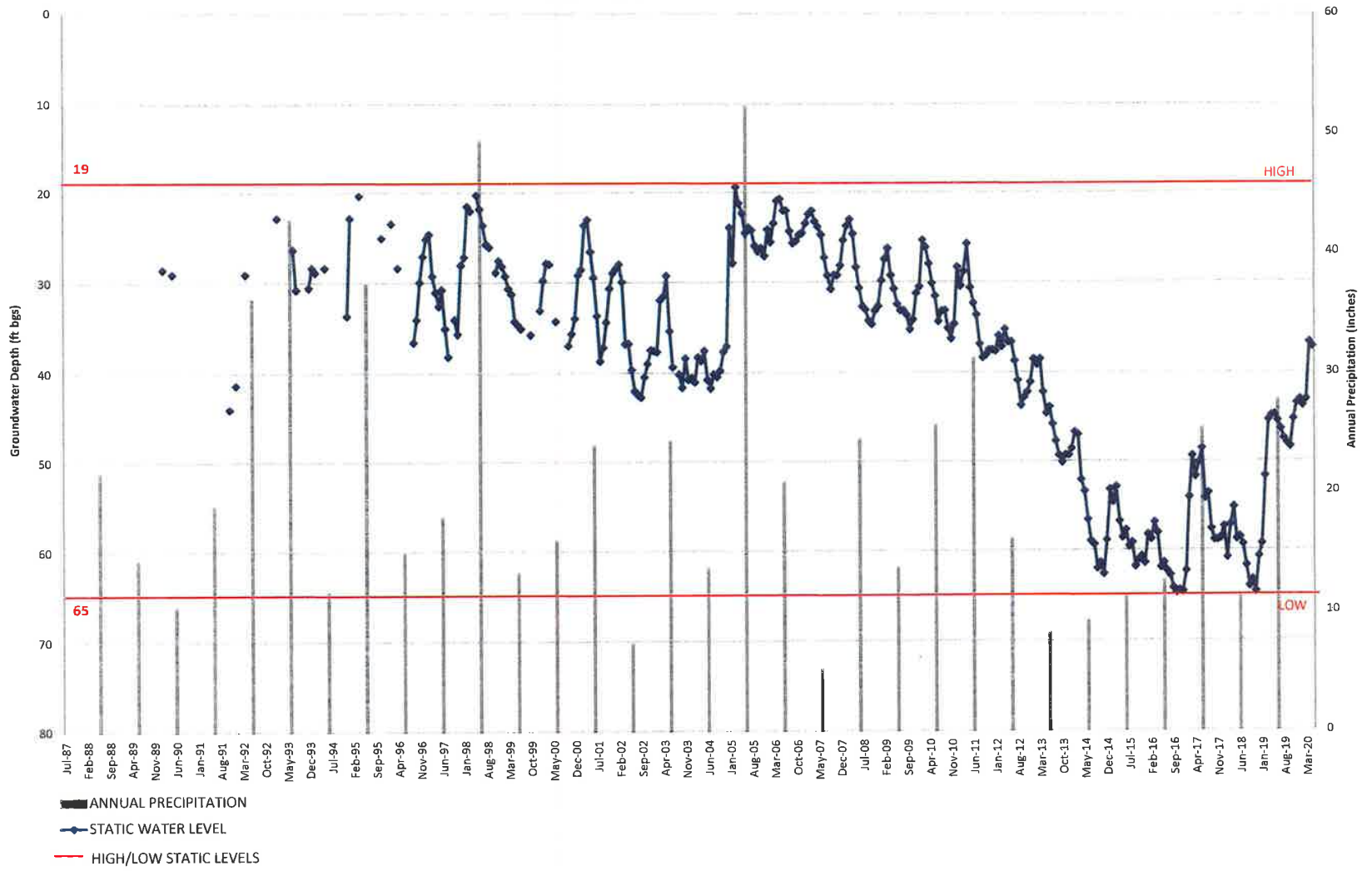
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 STATIC WATER LEVEL VS PRECIPITATION



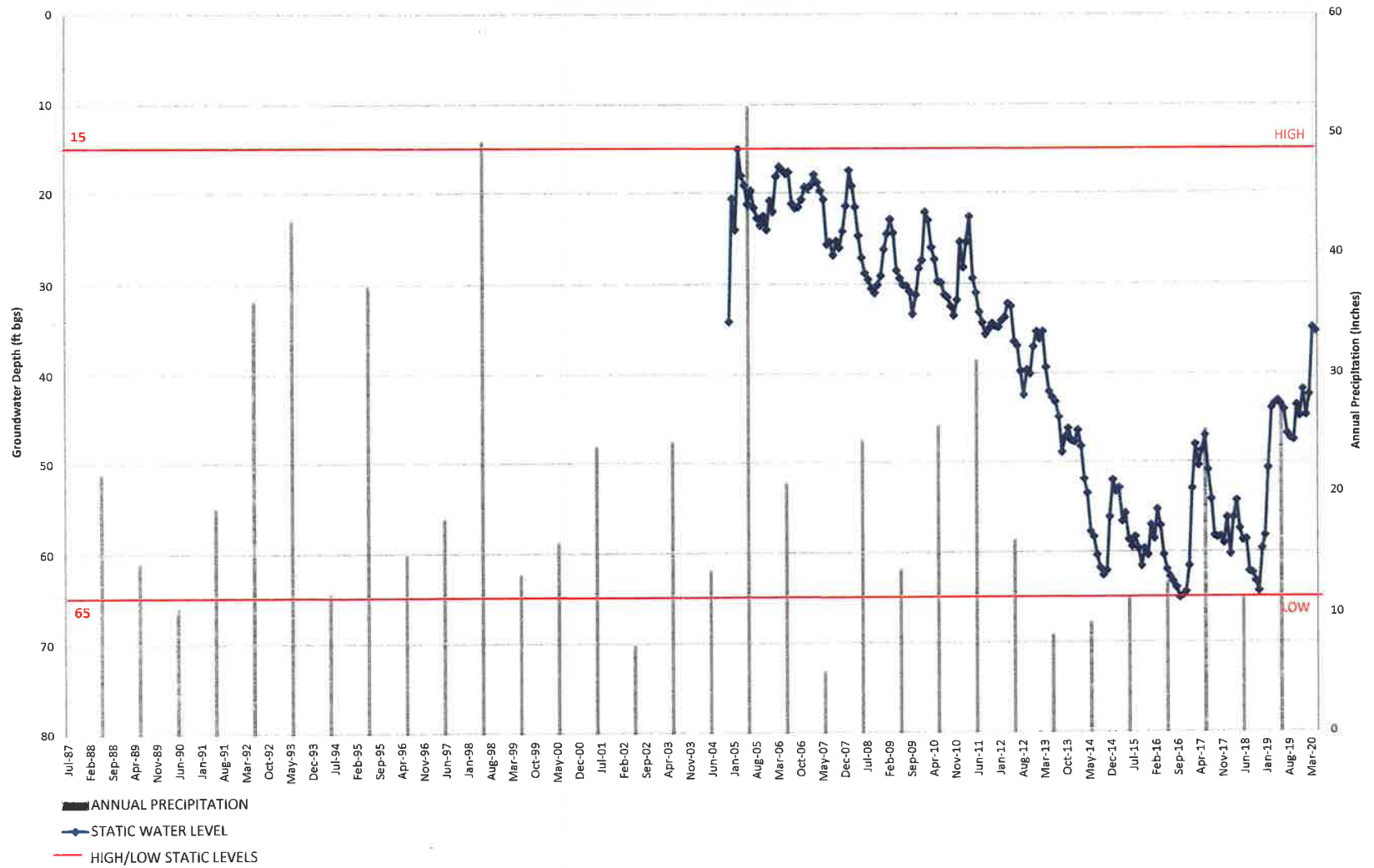
SCV WATER WELL 201
STATIC WATER LEVEL VS PRECIPITATION



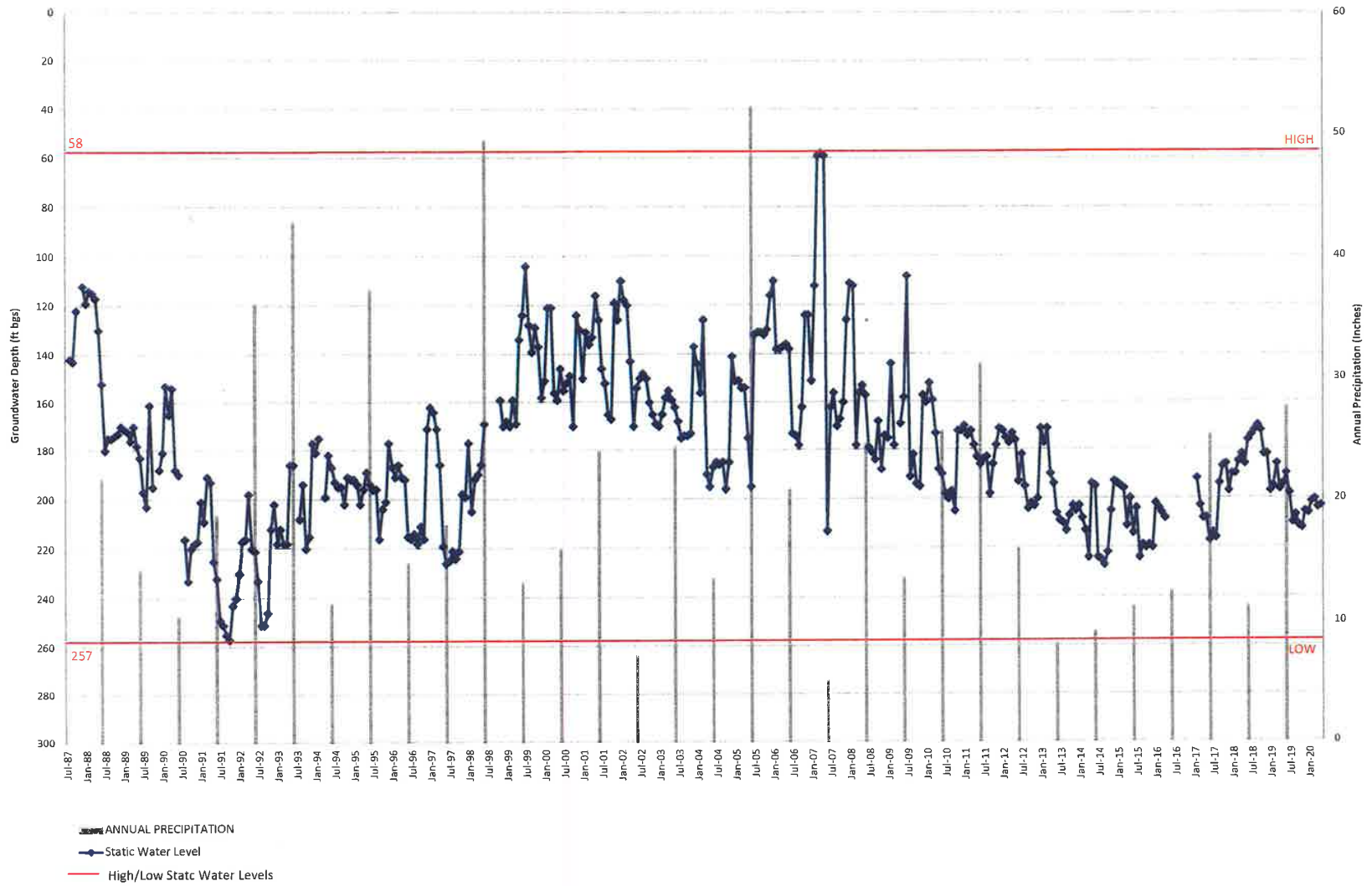
SCV WATER WELL N
 STATIC WATER LEVEL VS PRECIPITATION



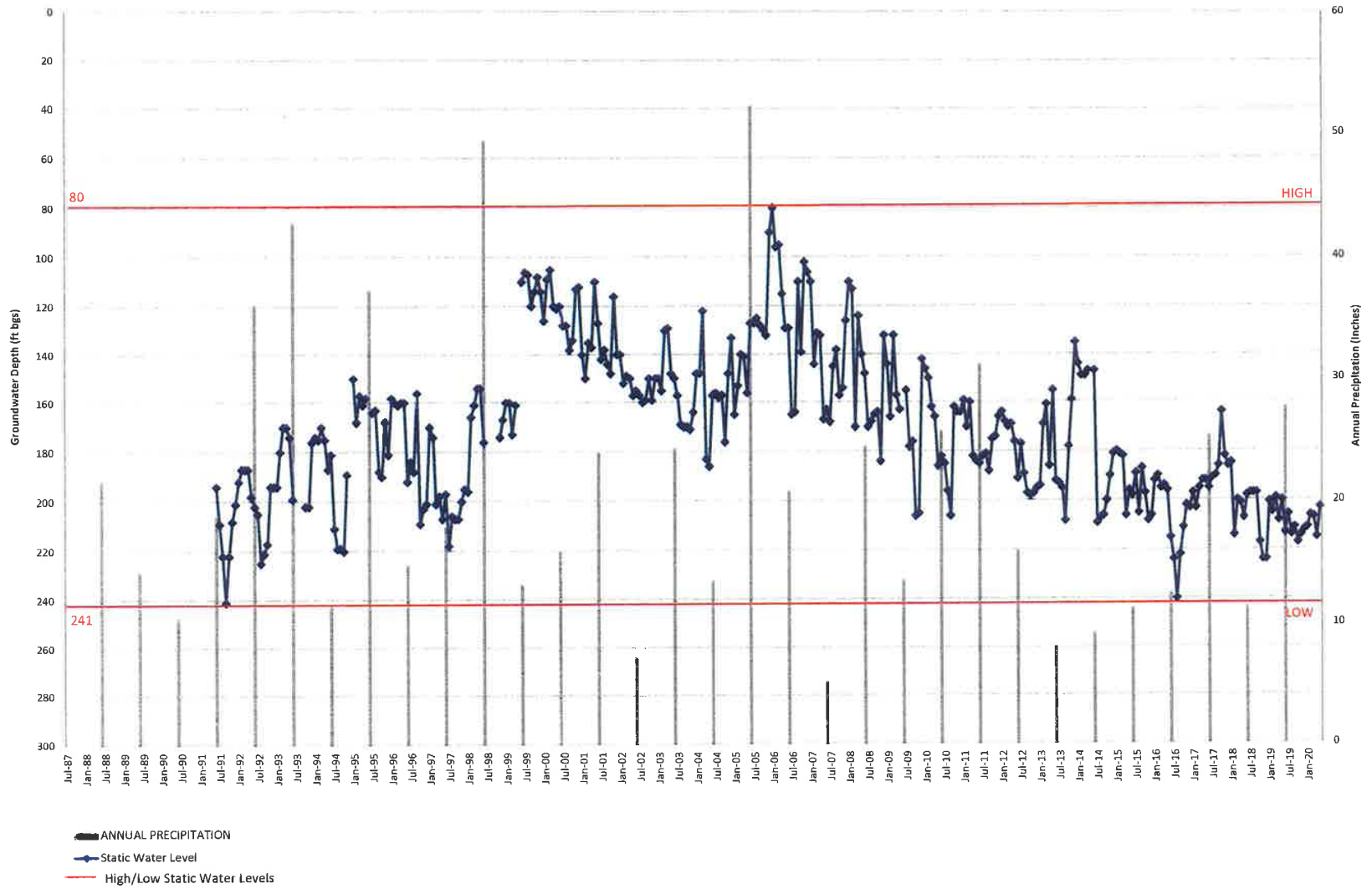
SCV WATER WELL N7
STATIC WATER LEVEL VS PRECIPITATION



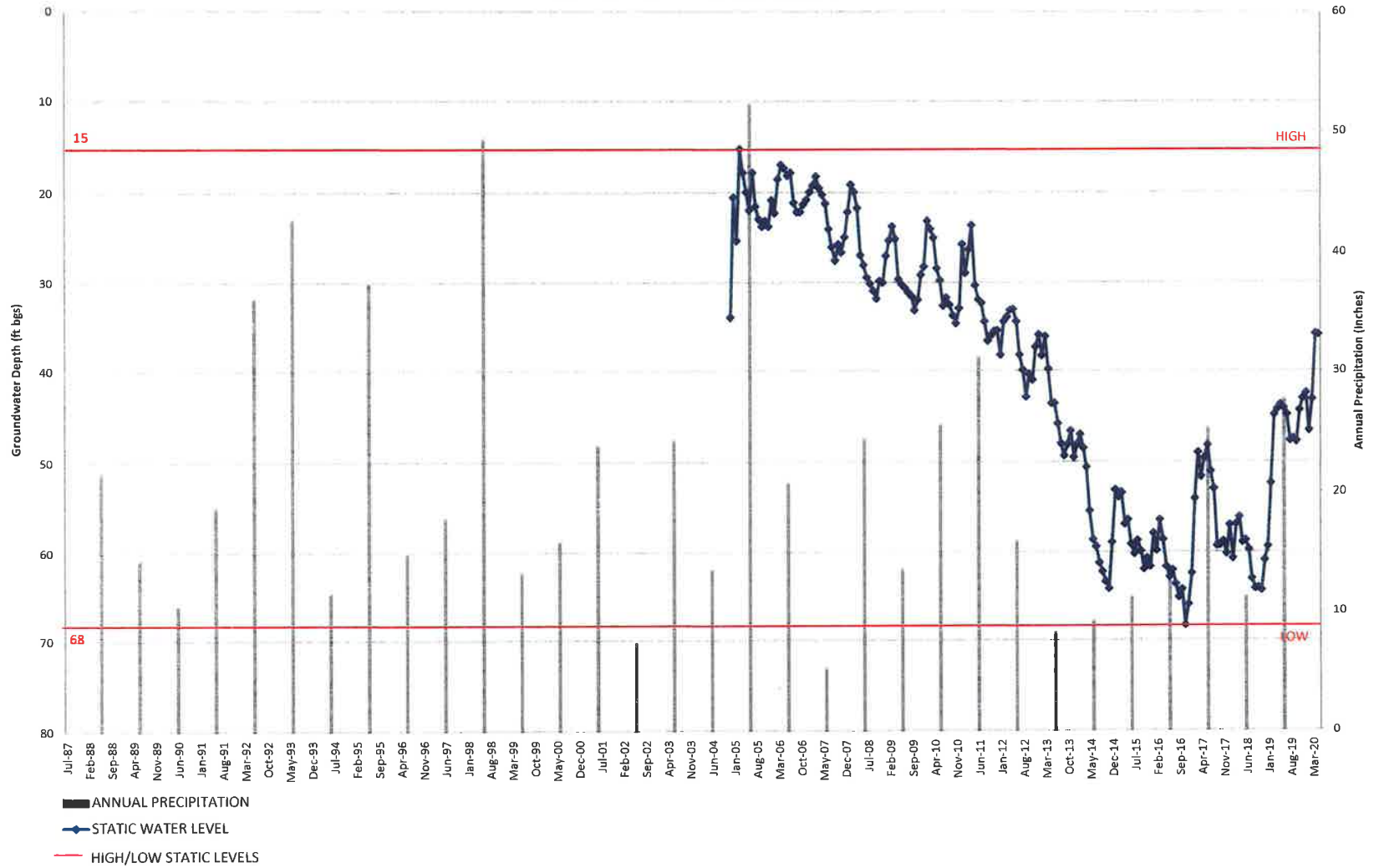
SCV WATER WELL N12
STATIC WATER LEVEL VS PRECIPITATION



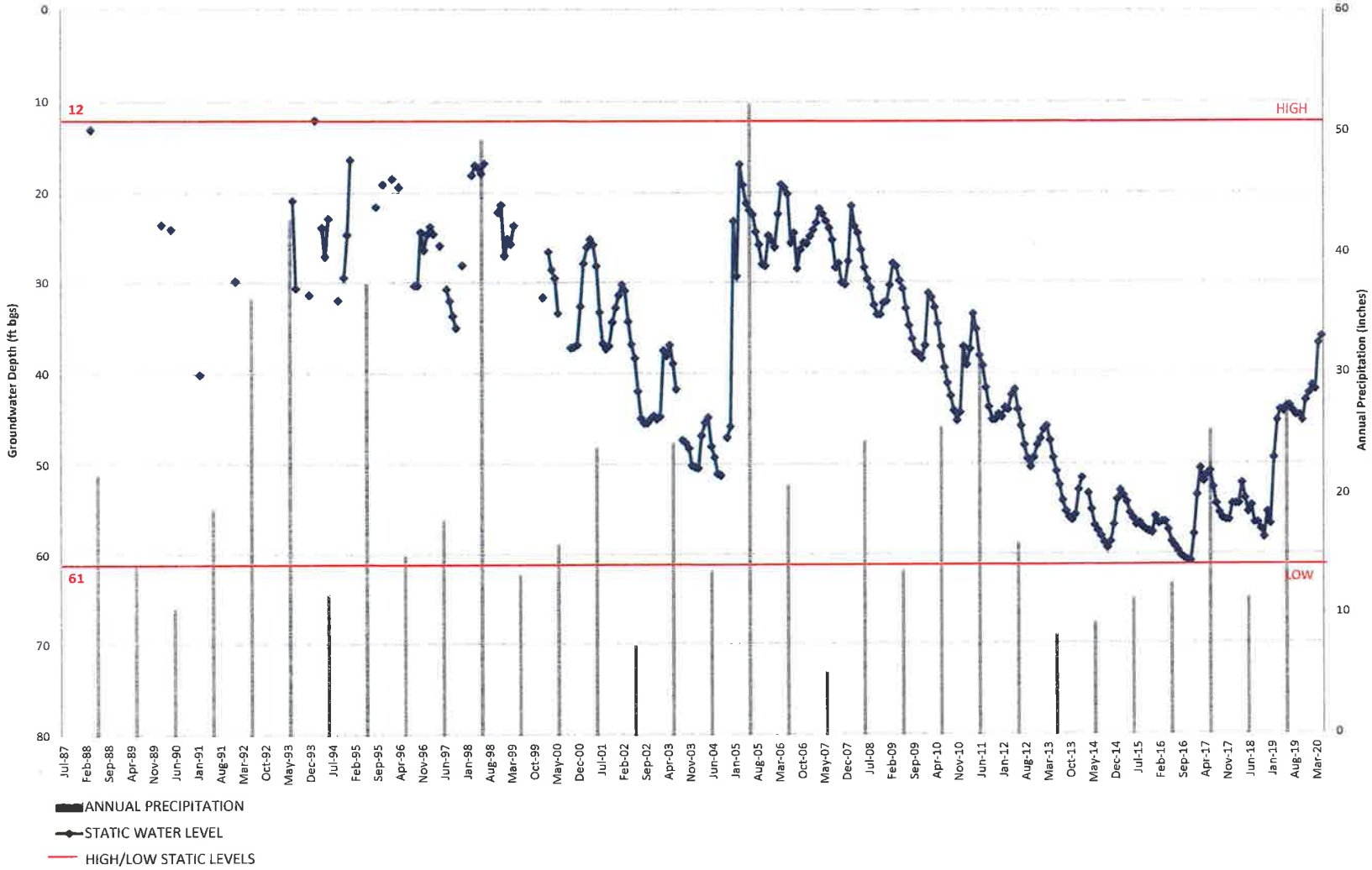
SCV WATER WELL N13
STATIC WATER LEVEL VS PRECIPITATION



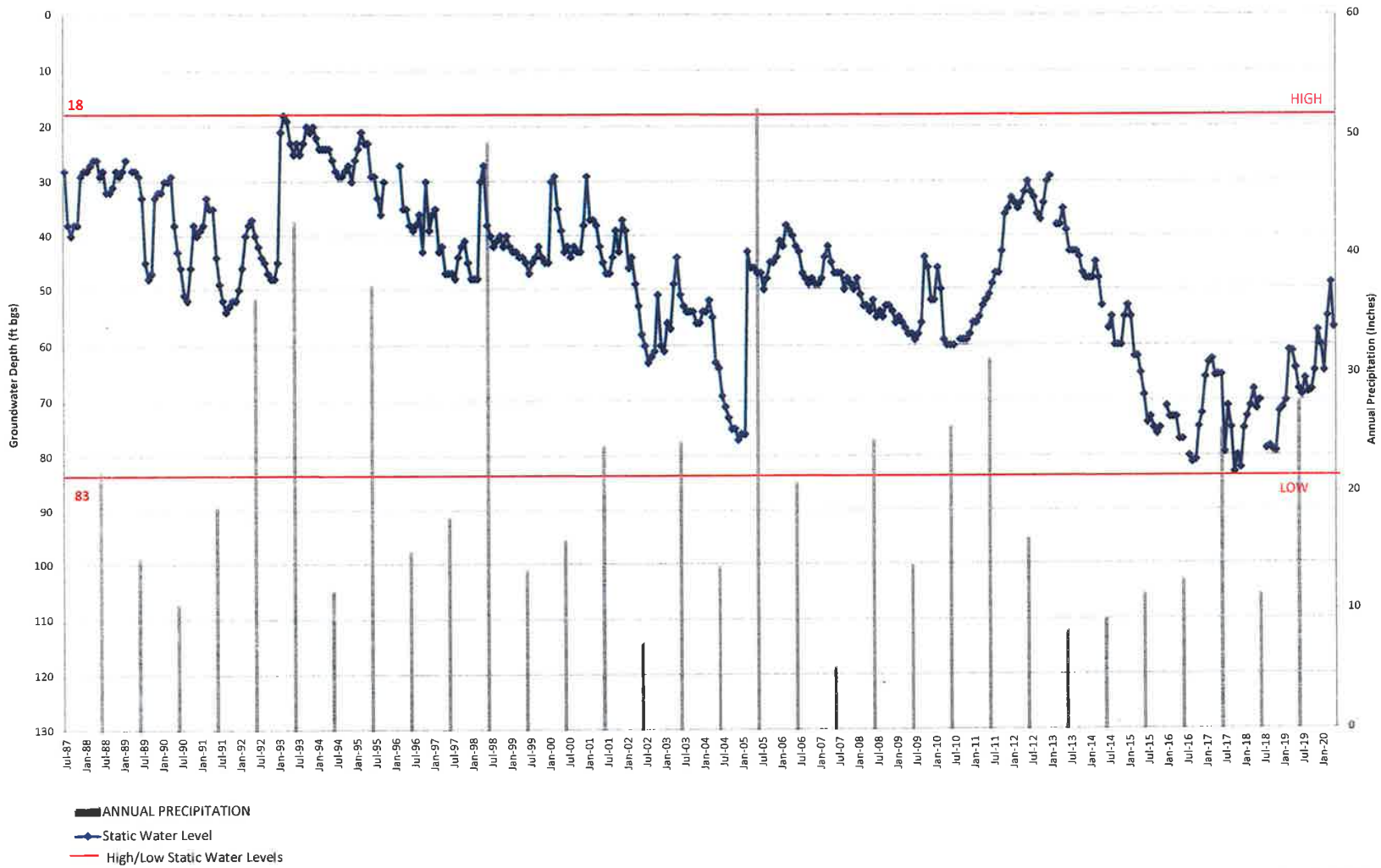
SCV WATER WELL N8
 STATIC WATER LEVEL VS PRECIPITATION



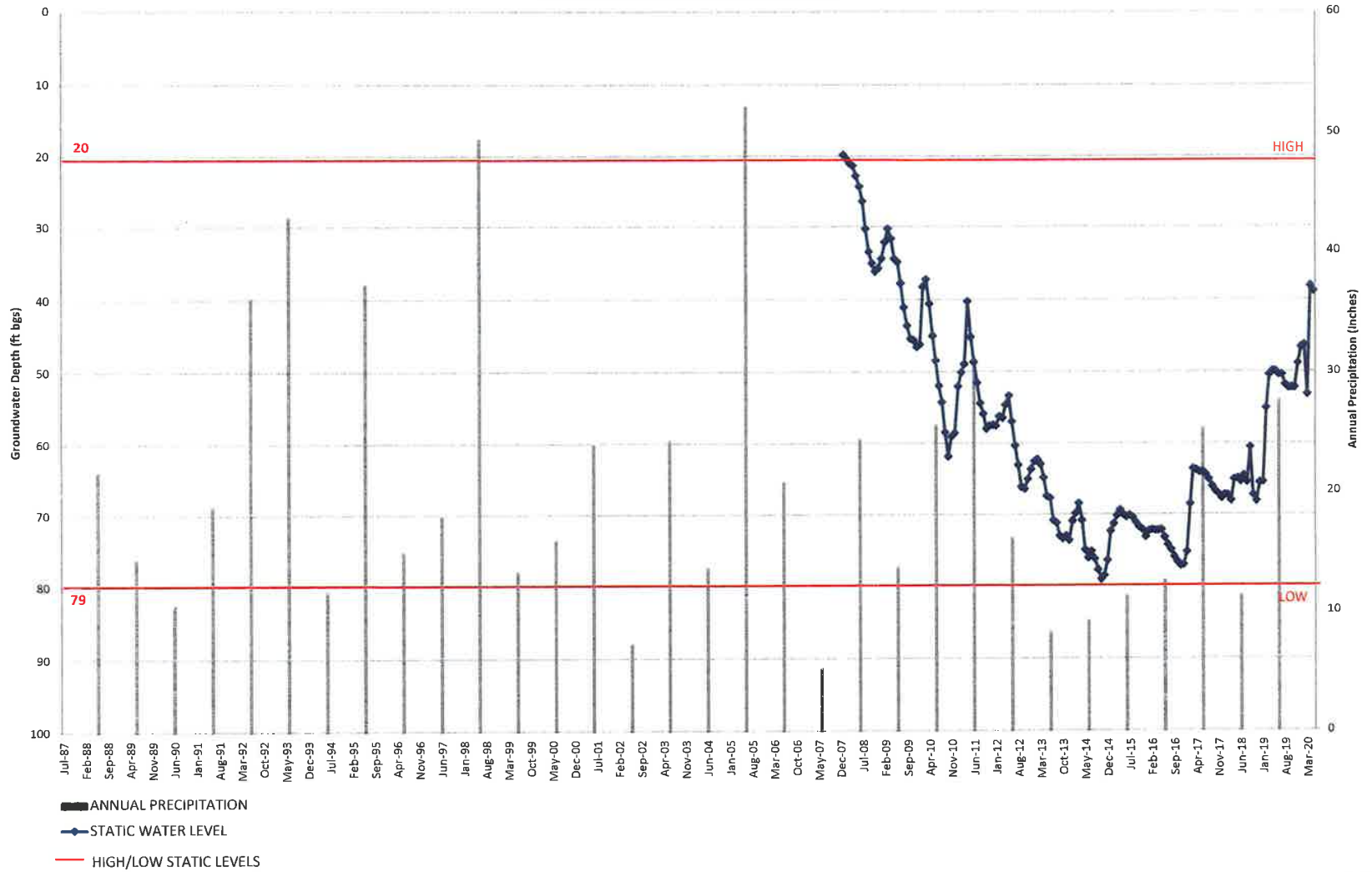
SCV WATER WELL Q2
 STATIC WATER LEVEL VS PRECIPITATION



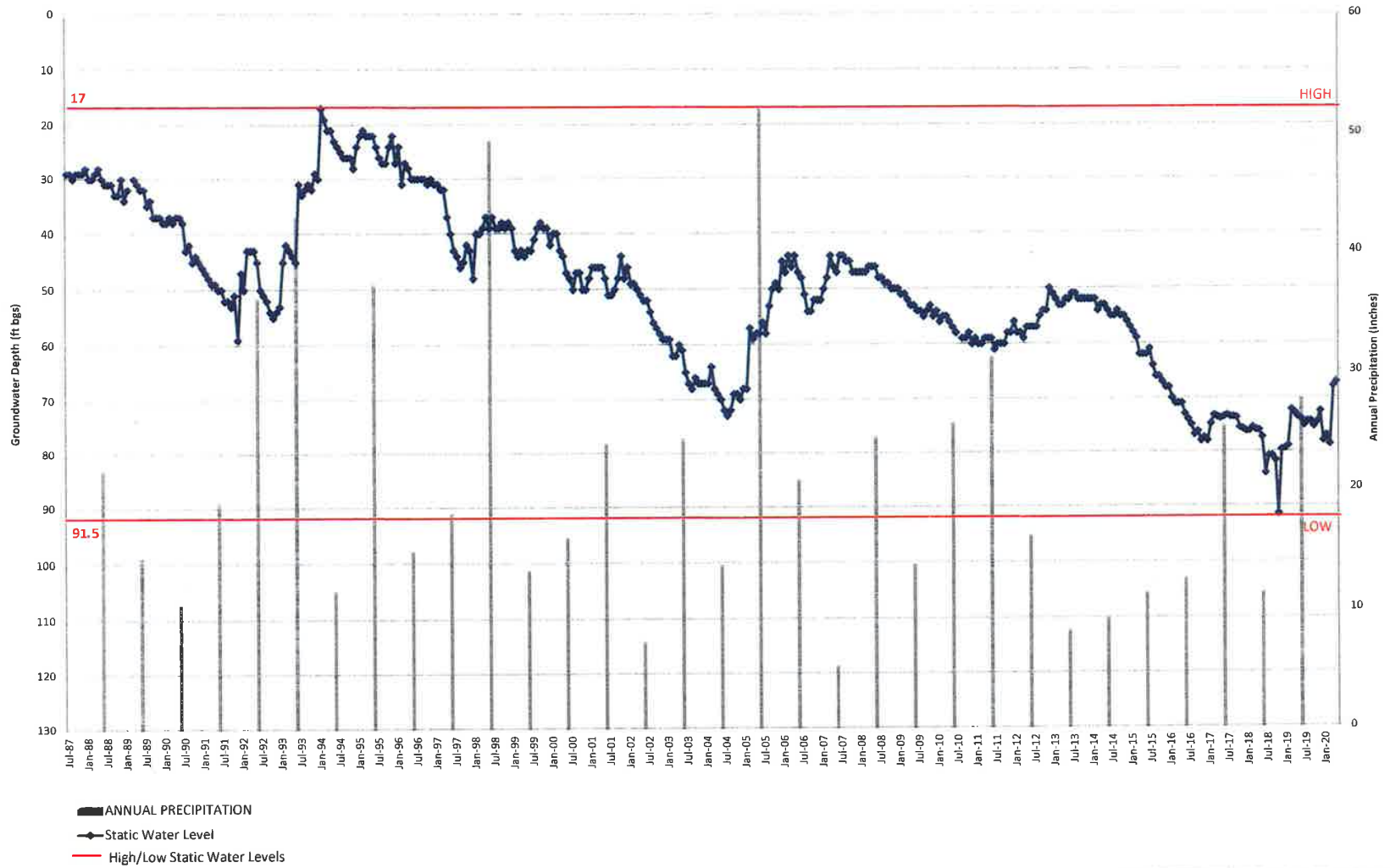
SCV WATER WELL GUIDA #14
STATIC WATER LEVEL VS PRECIPITATION



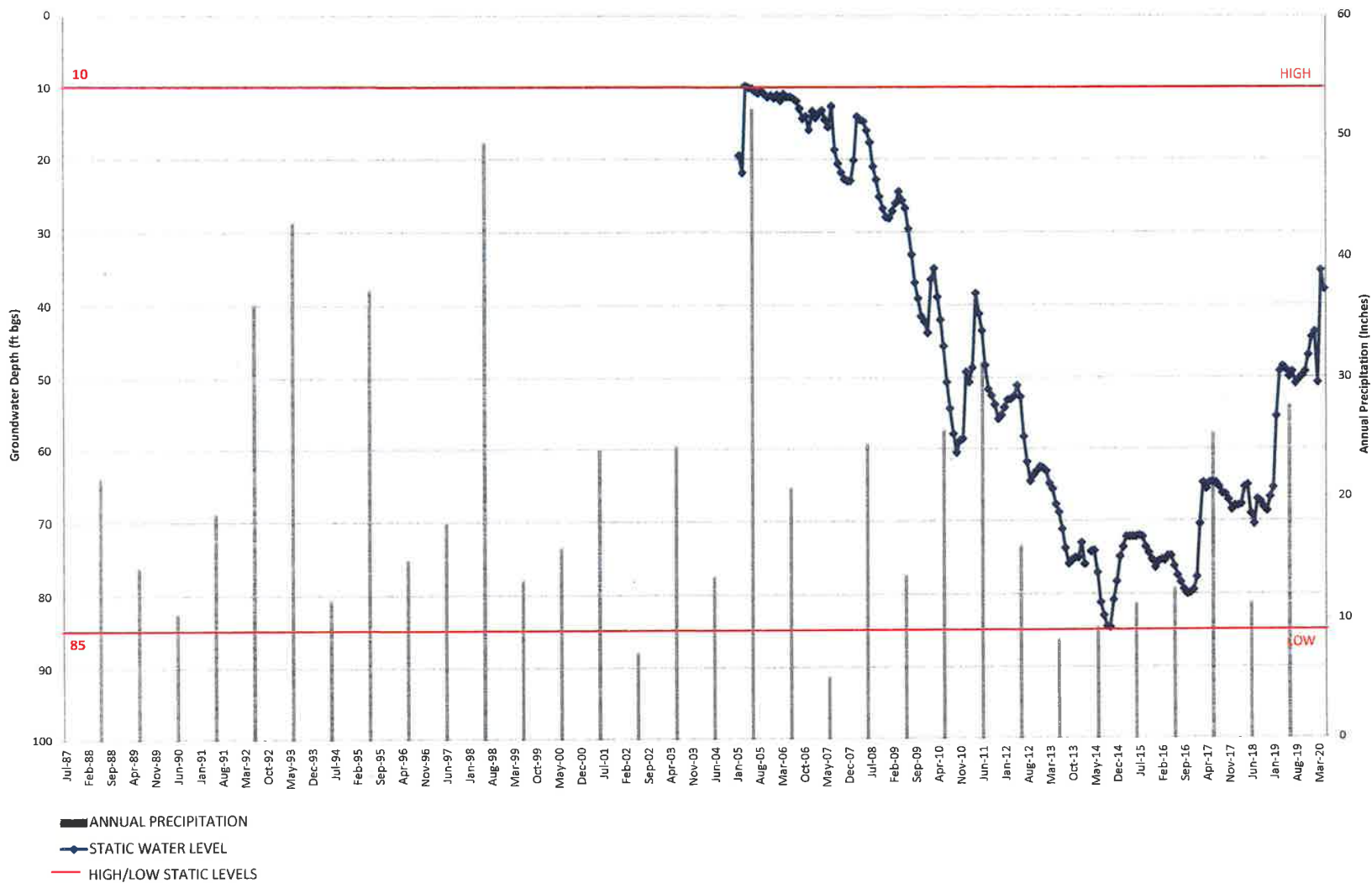
SCV WATER WELL T7
STATIC WATER LEVEL VS PRECIPITATION



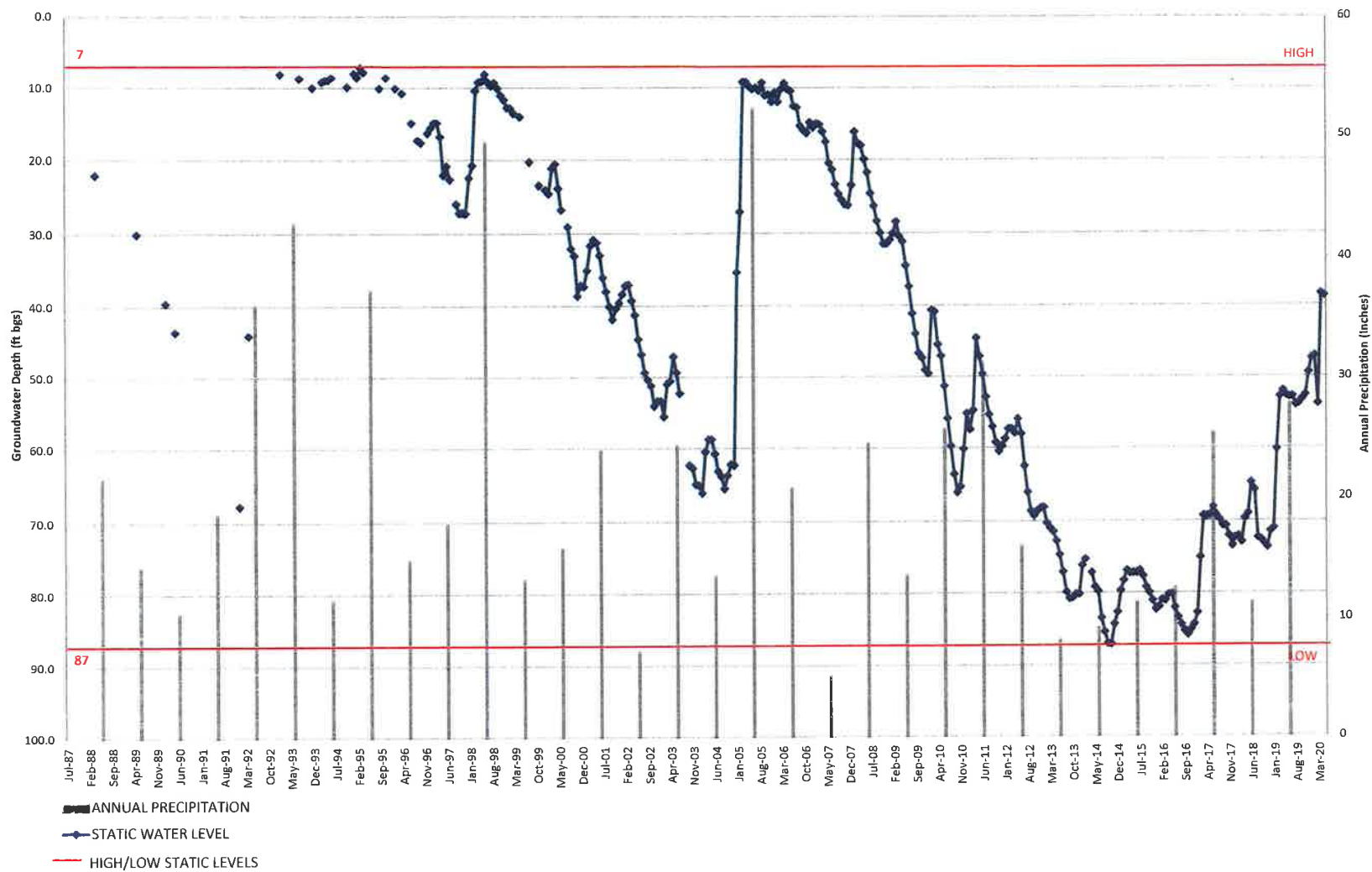
SCV WATER WELL CLARK #15
 STATIC WATER LEVEL VS PRECIPITATION



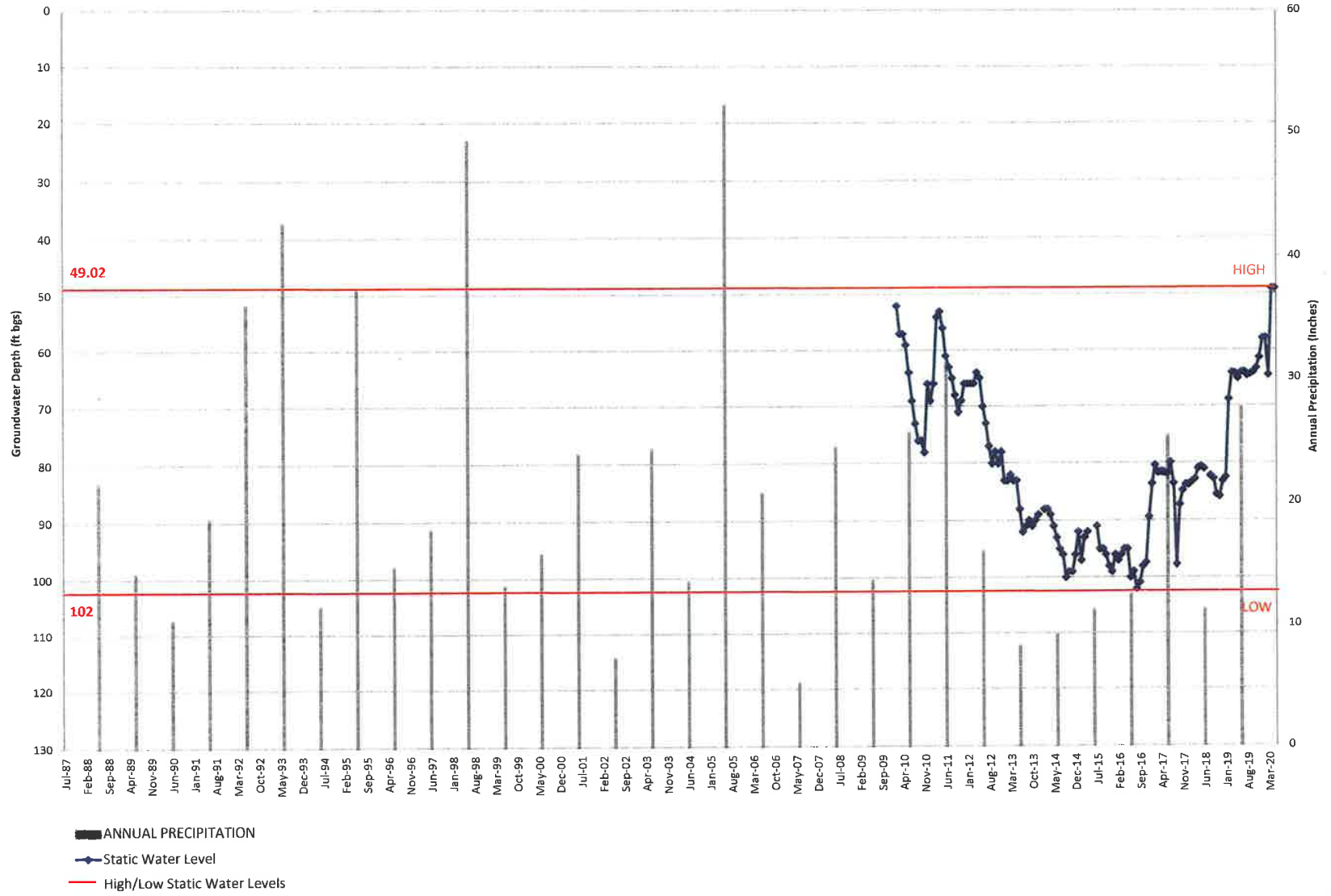
SCV WATER WELL U6
 STATIC WATER LEVEL VS PRECIPITATION



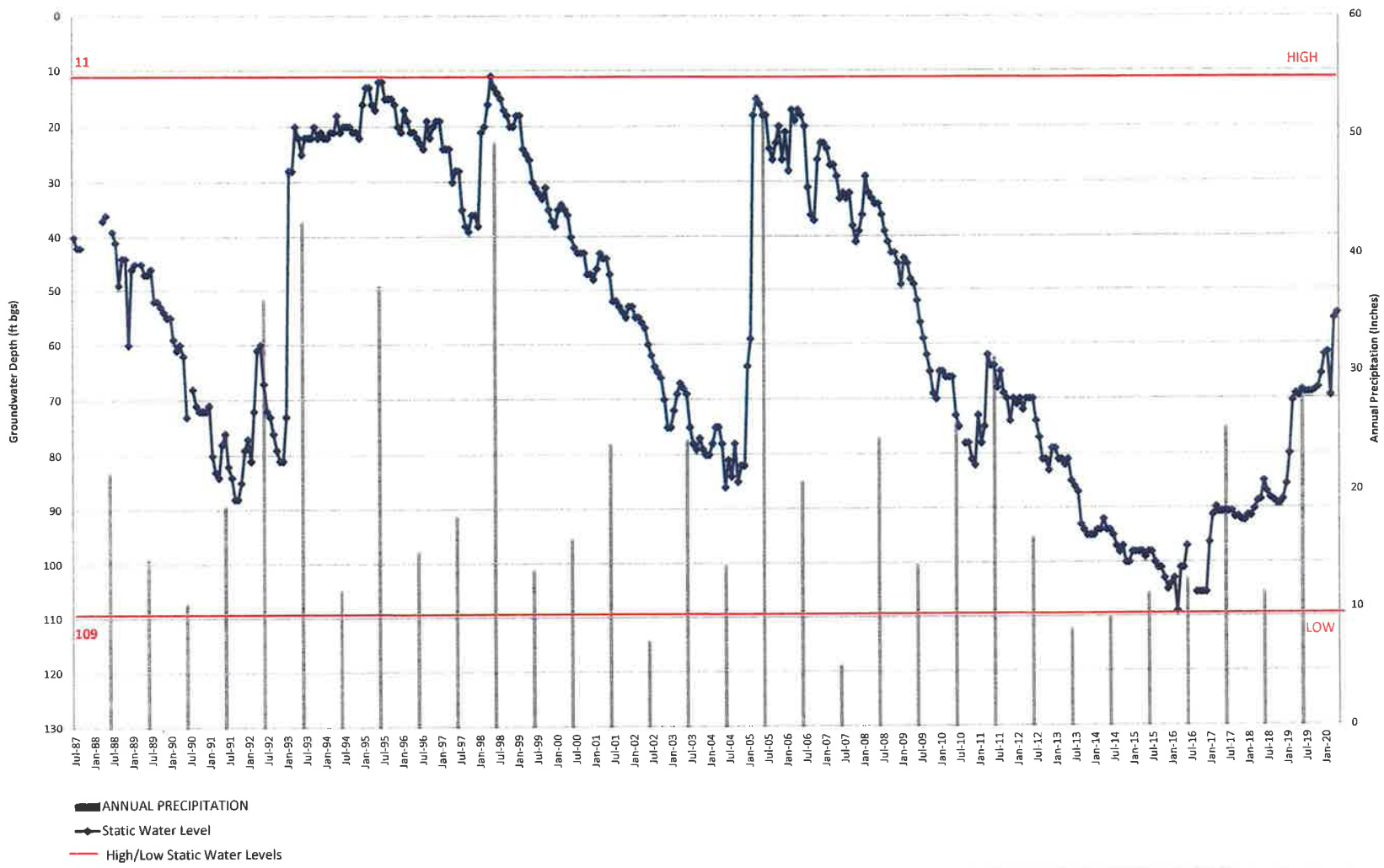
SCV WATER WELL U4
 STATIC WATER LEVEL VS PRECIPITATION



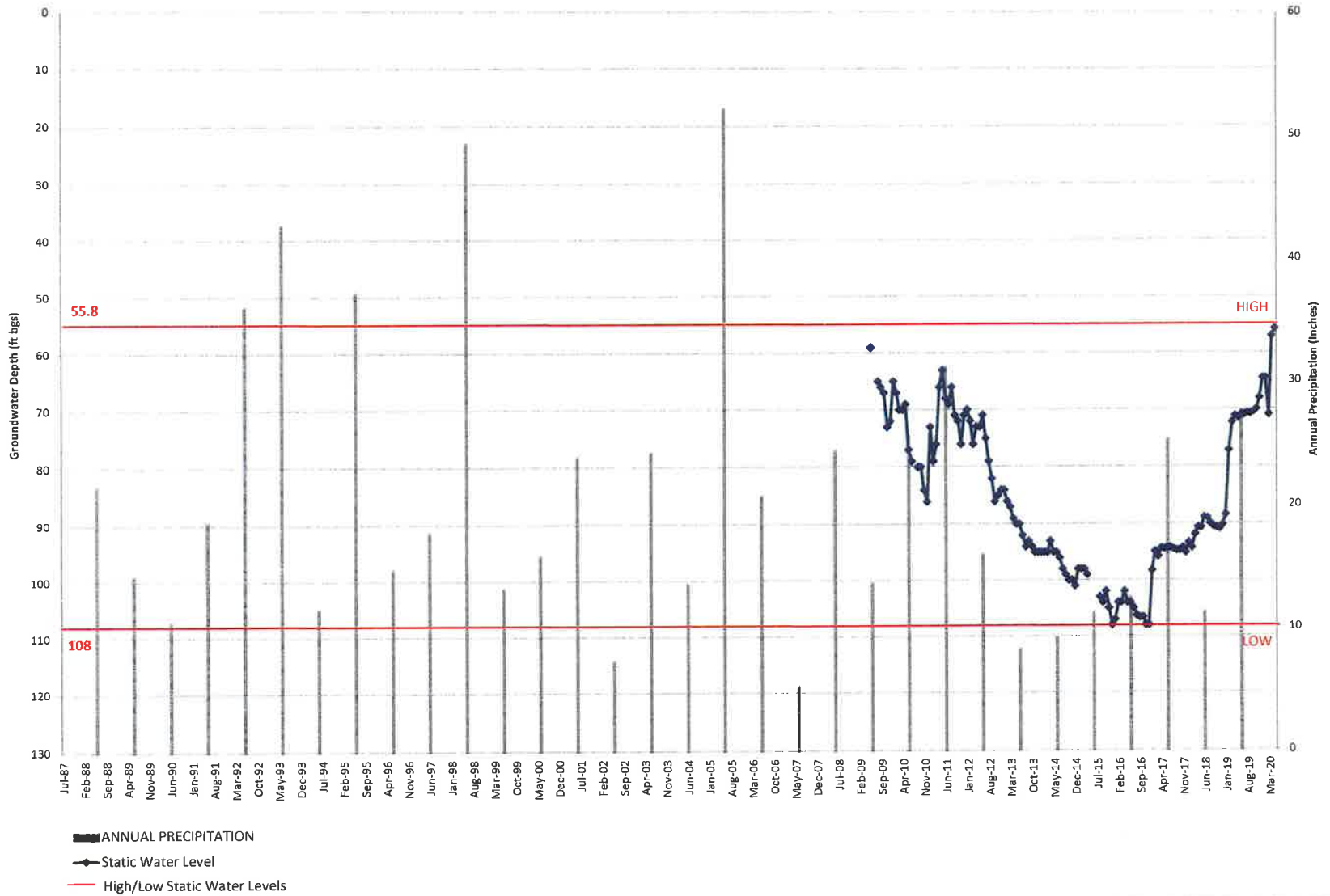
SCV WATER WELL VALLEY CENTER
STATIC WATER LEVEL VS PRECIPITATION



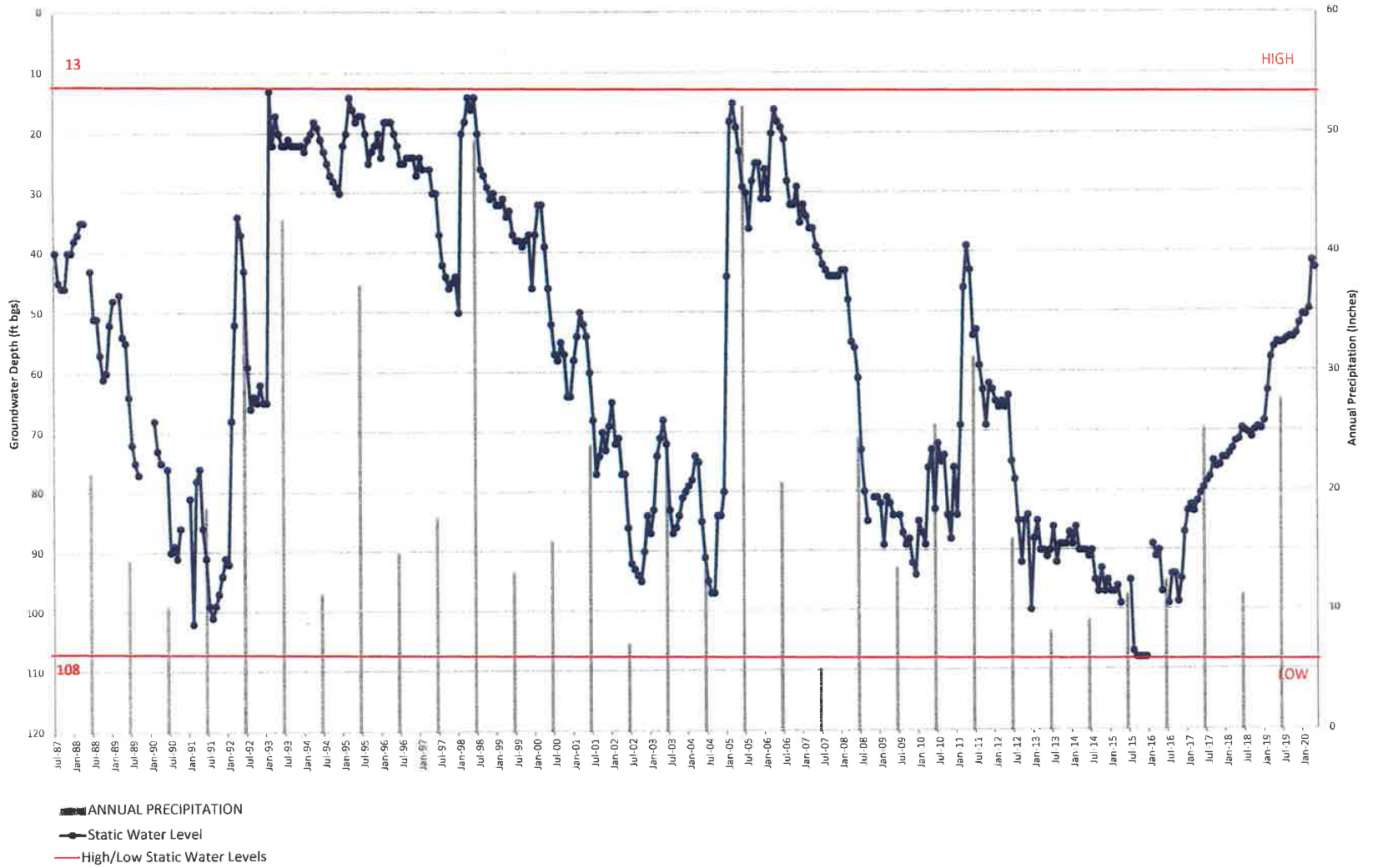
SCV WATER WELL HONBY #12
 STATIC WATER LEVEL VS PRECIPITATION



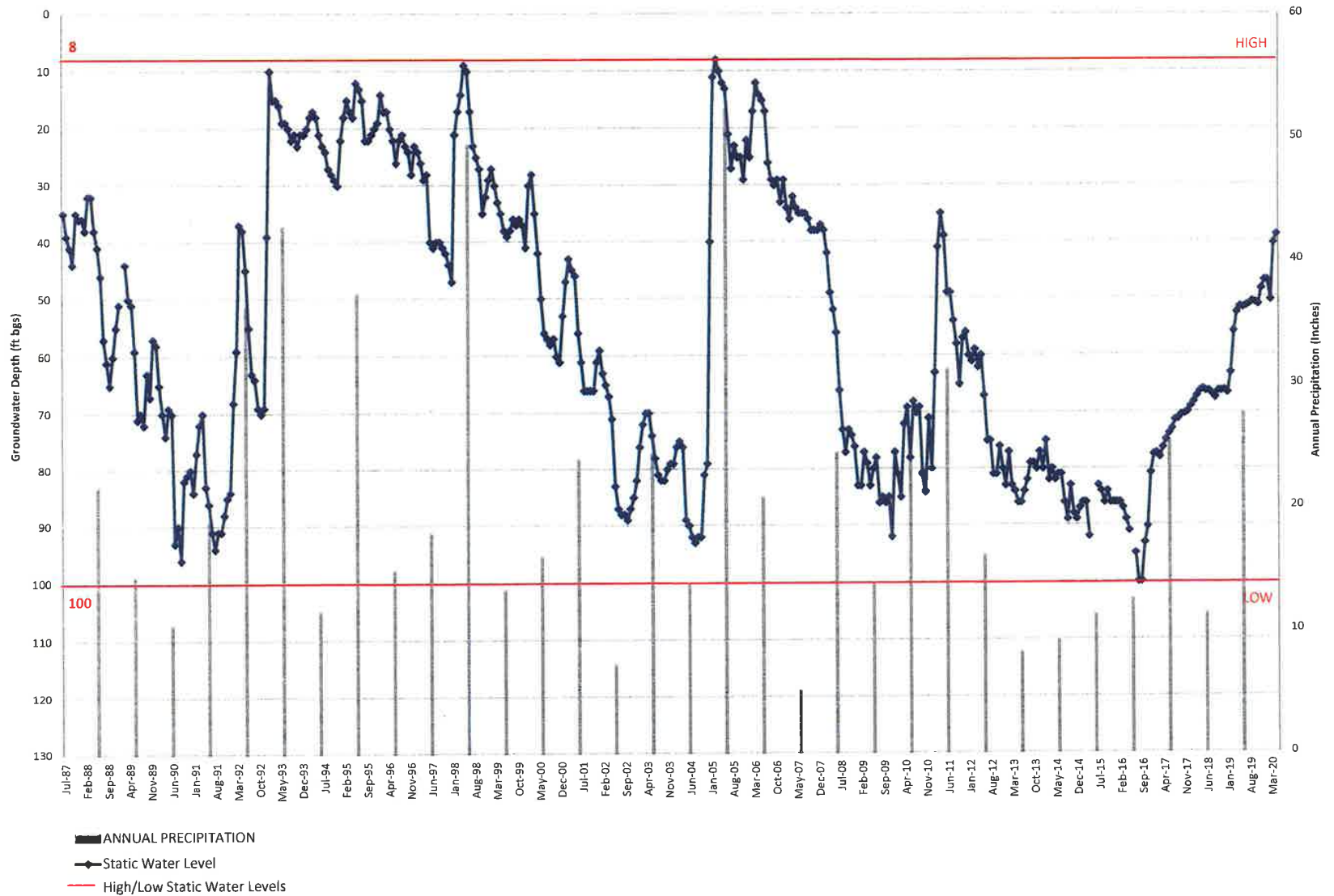
SCV WATER WELL SANTA CLARA
STATIC WATER LEVEL VS PRECIPITATION



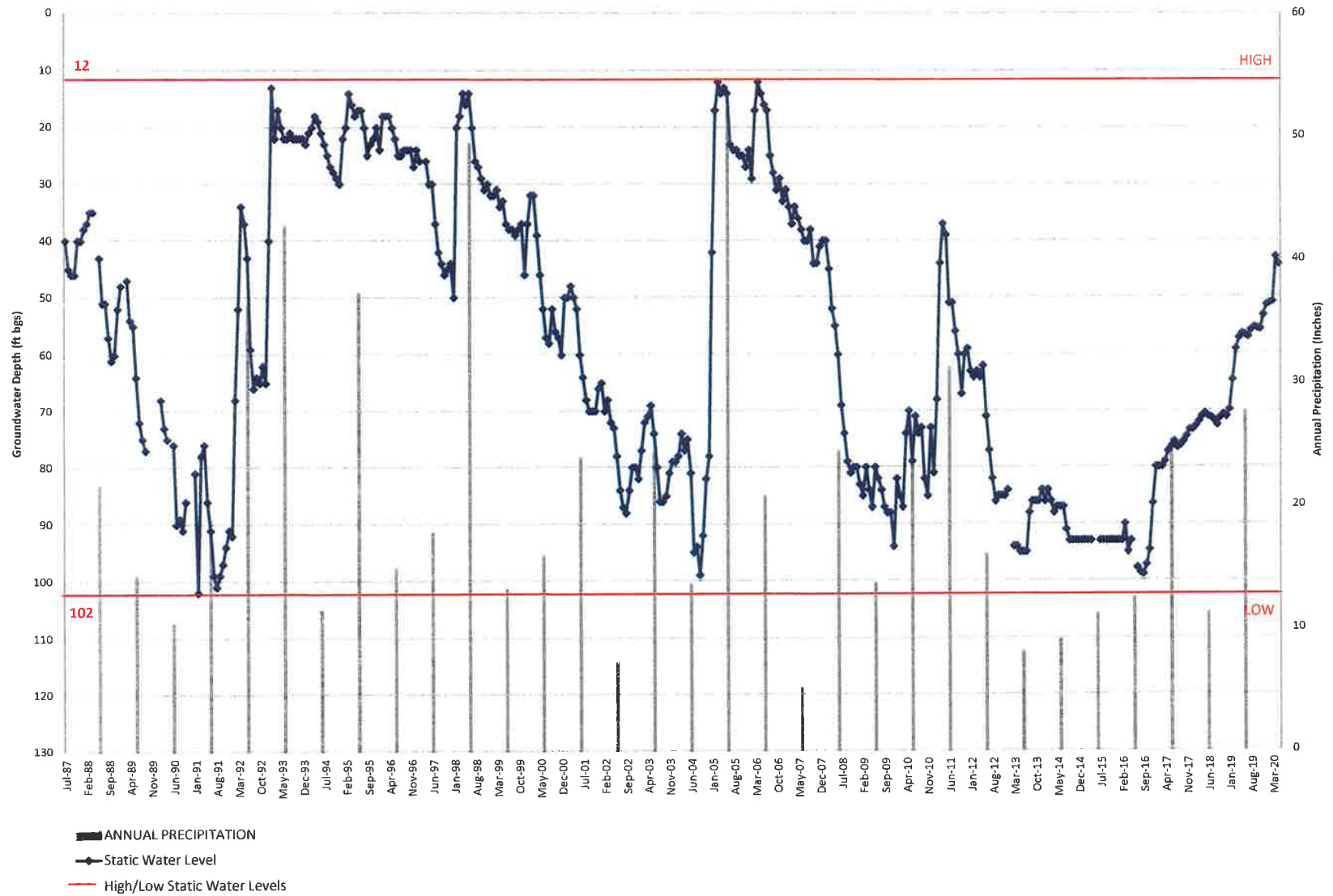
SCV WATER WELL NORTH OAKS CENTRAL #8
 STATIC WATER LEVEL VS. PRECIPITATION



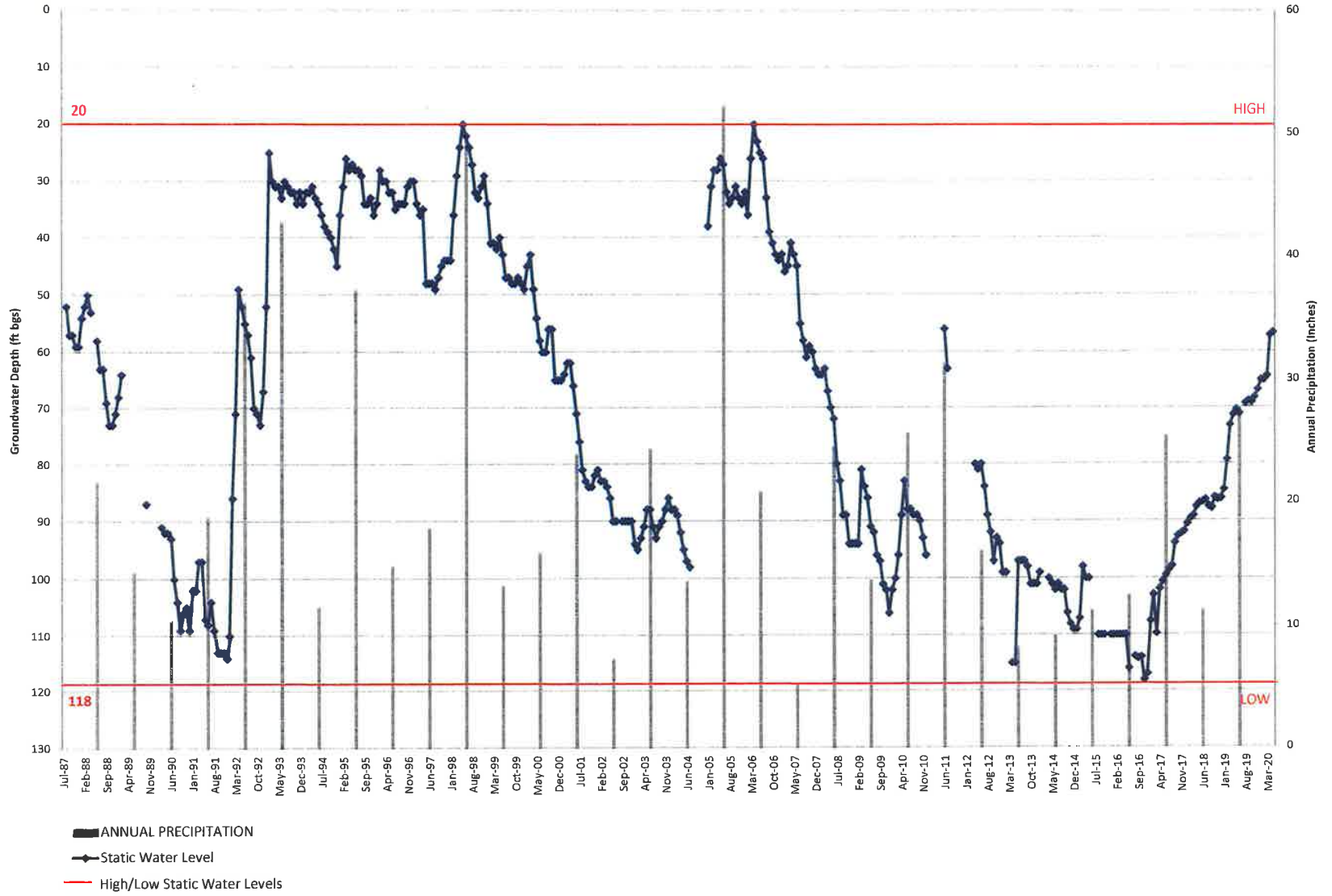
SCV WATER WELL NORTH OAKS WEST #9
 STATIC WATER LEVEL VS PRECIPITATION



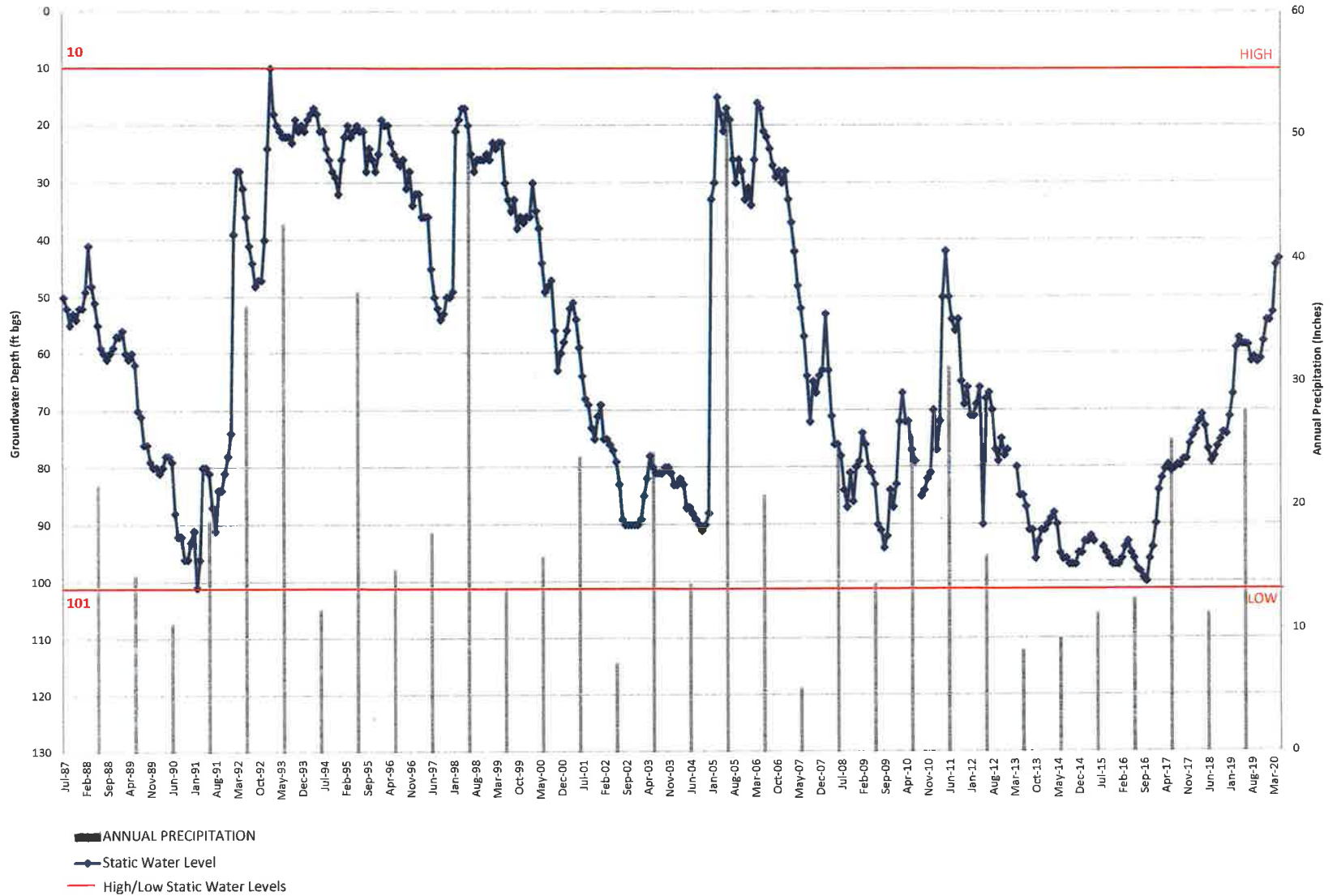
SCV WATER WELL NORTH OAKS EAST #7
STATIC WATER LEVEL VS PRECIPITATION



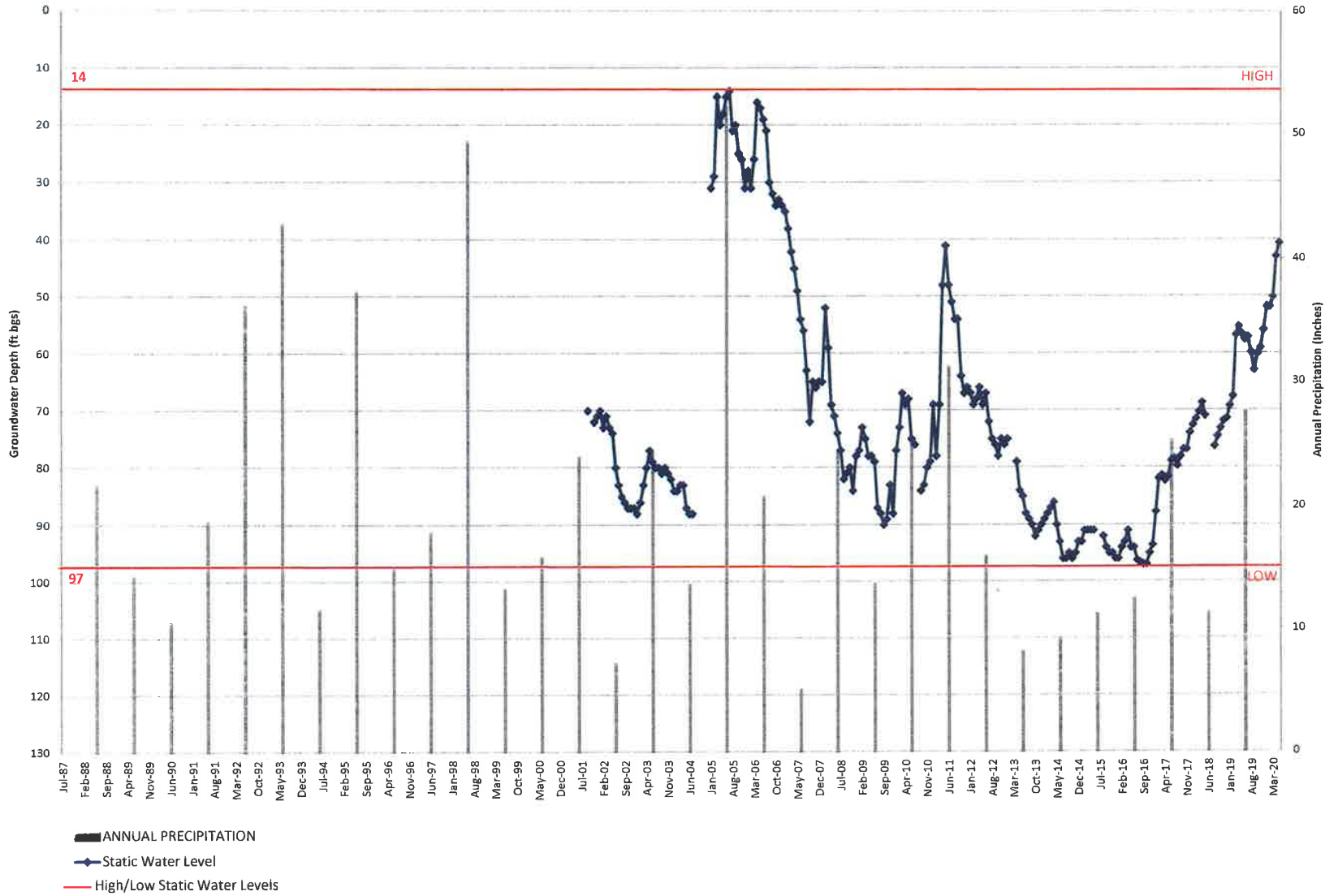
SCV WATER WELL SIERRA #6
STATIC WATER LEVEL VS PRECIPITATION



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



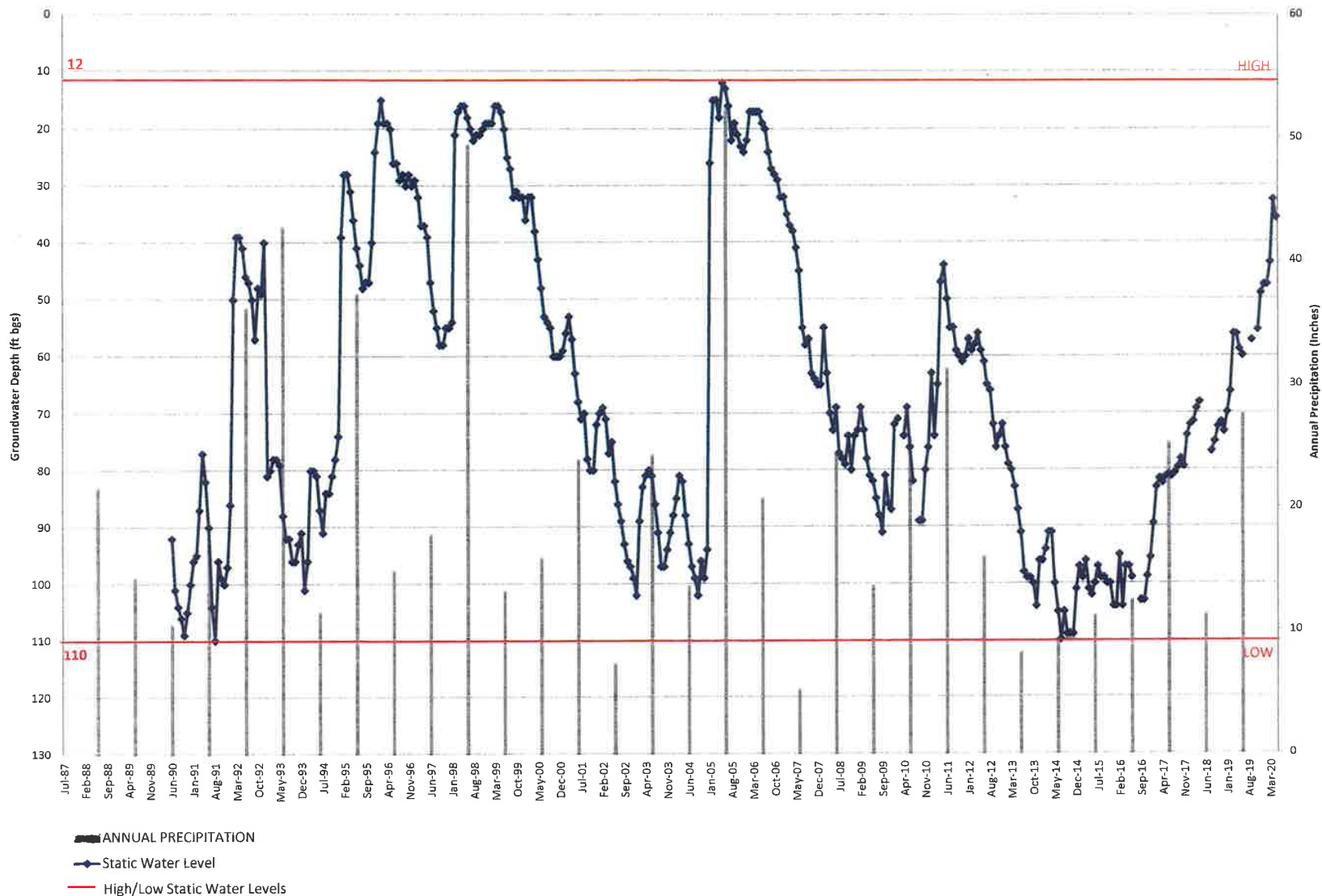
SCV WATER WELL MITCHELL #5B
STATIC WATER LEVEL VS PRECIPITATION



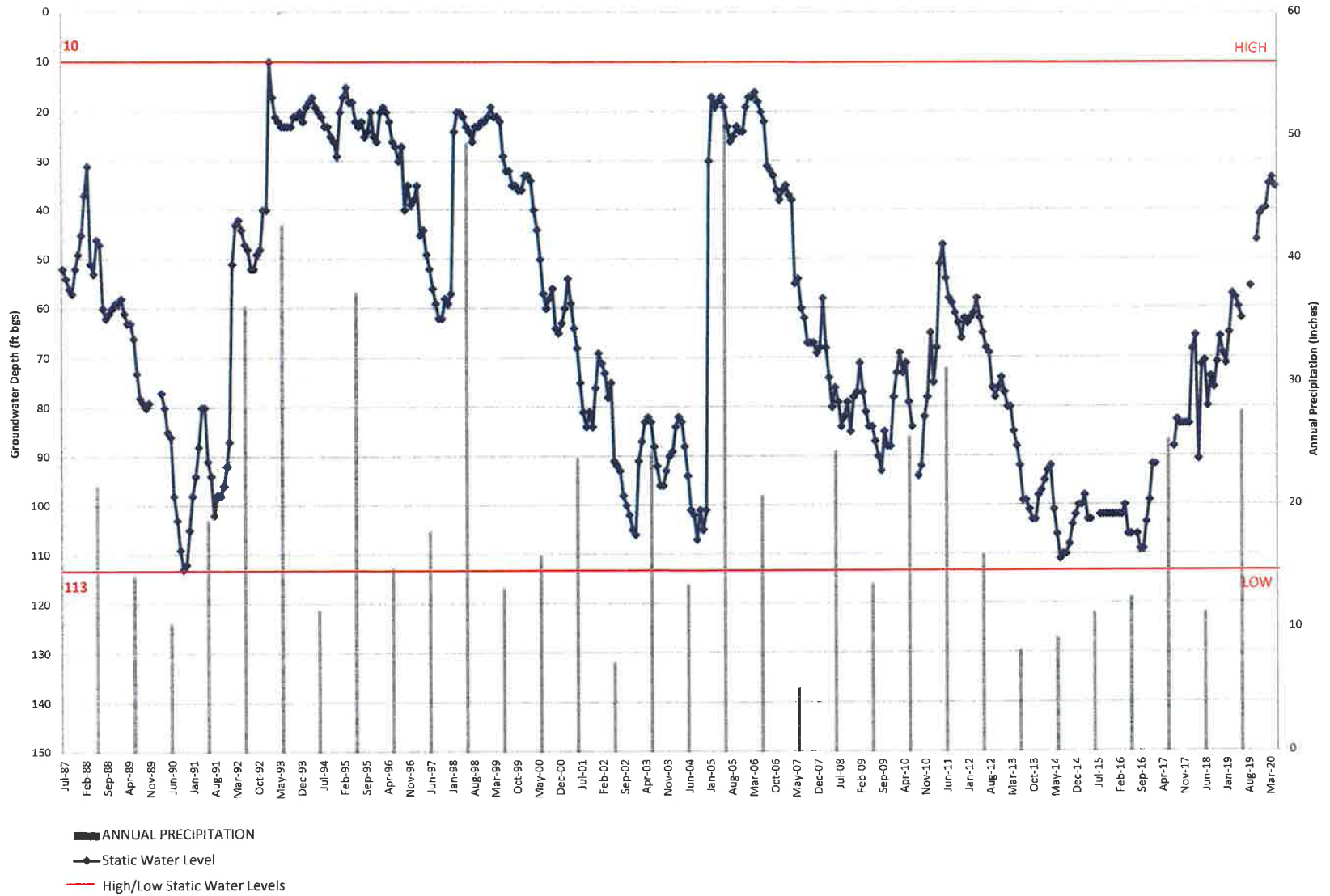
SCV WATER WELL SAND CANYON #3
 STATIC WATER LEVEL VS PRECIPITATION



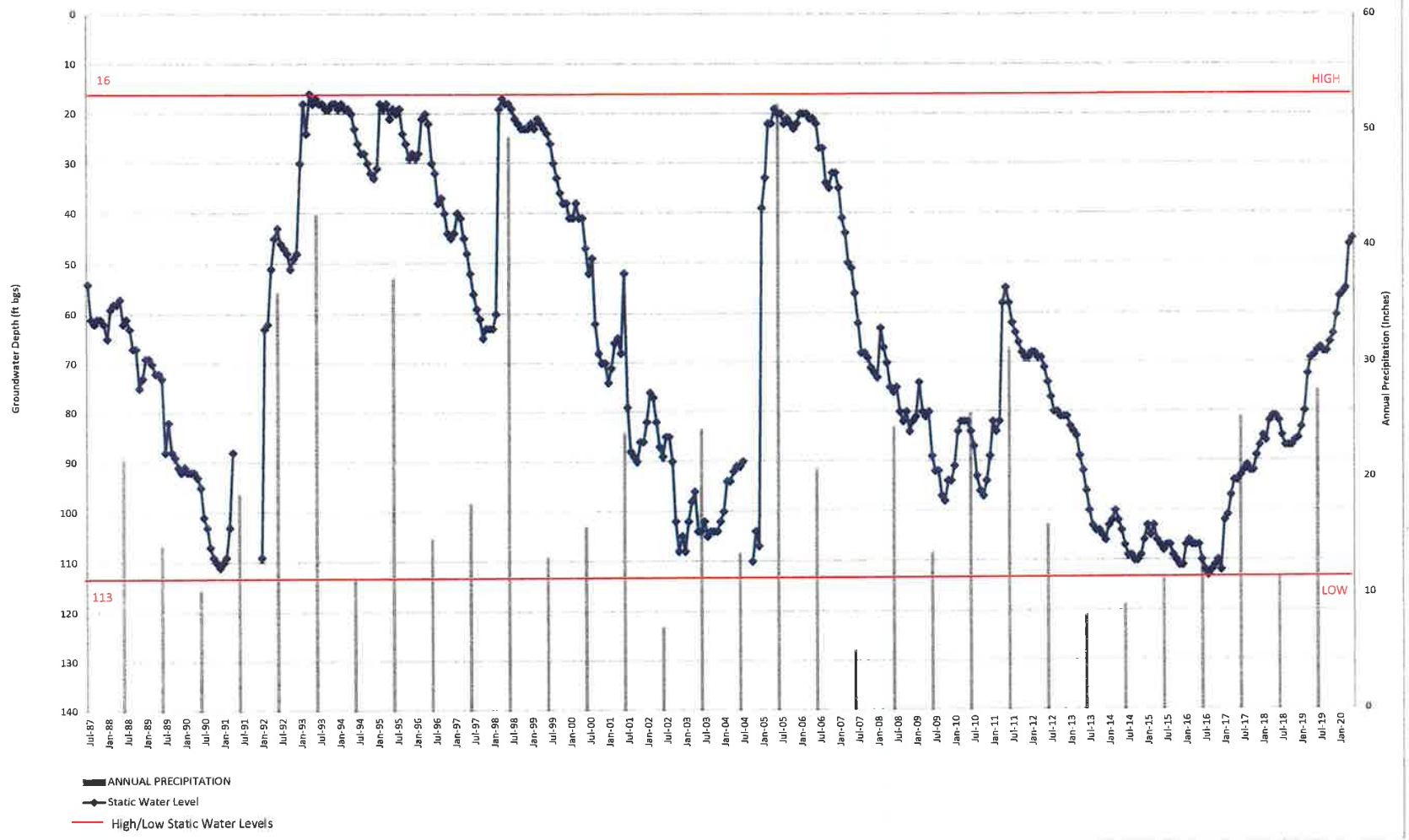
SCV WATER WELL LOST CANYON #2A
 STATIC WATER LEVEL VS PRECIPITATION



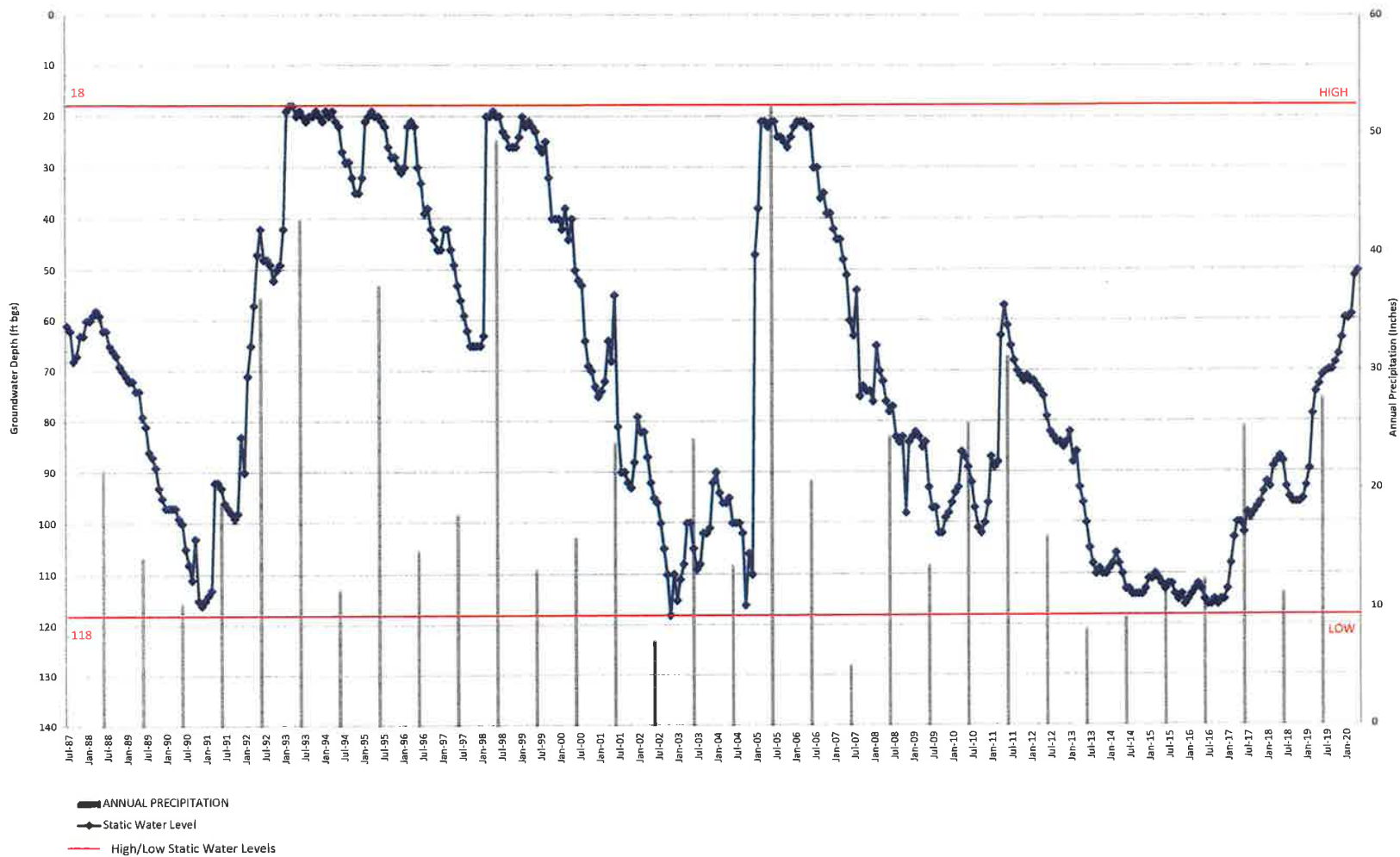
**SCV WATER WELL LOST CANYON #2
STATIC WATER LEVEL VS PRECIPITATION**



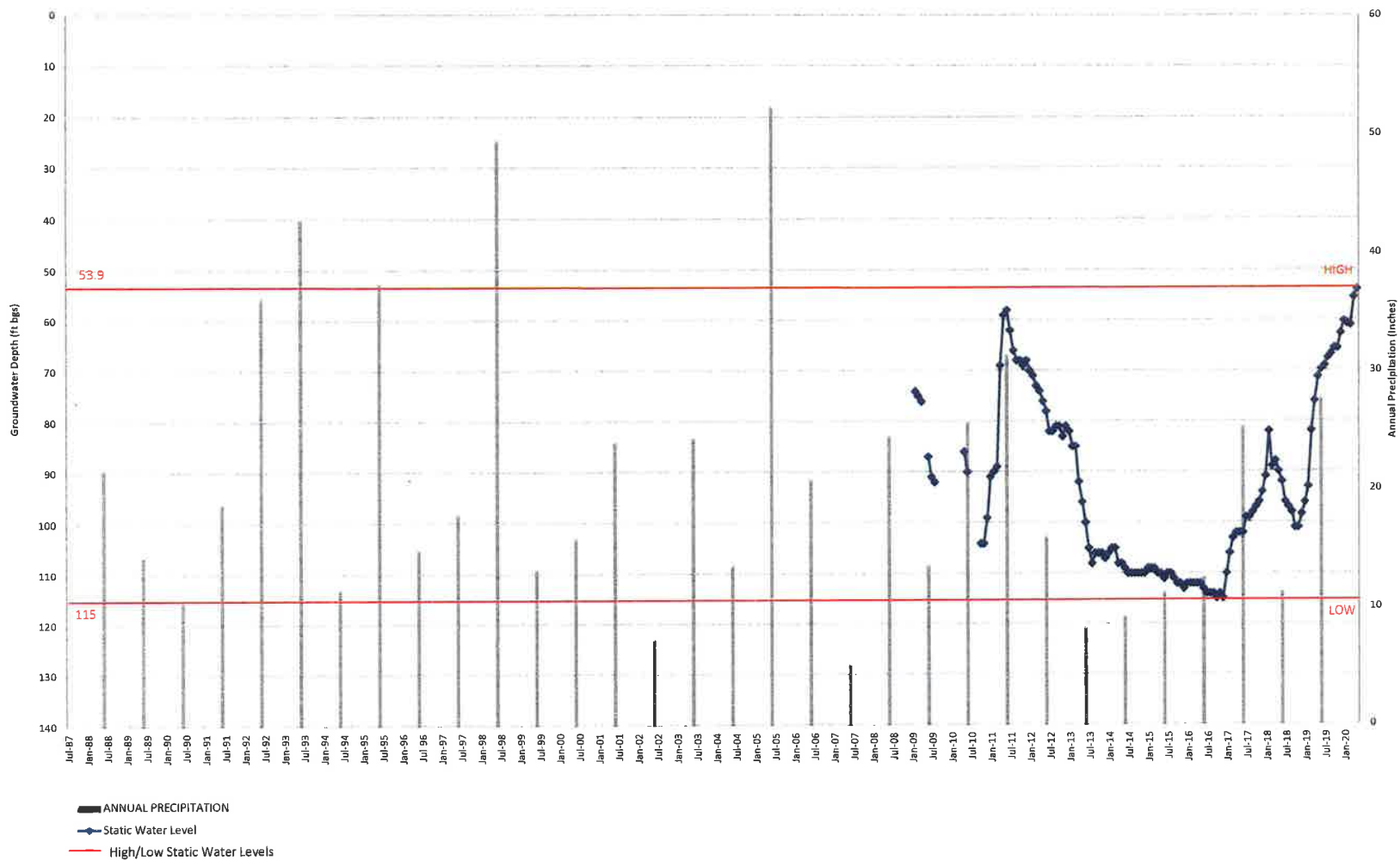
SCV WATER WELL P4
 STATIC WATER LEVEL VS PRECIPITATION



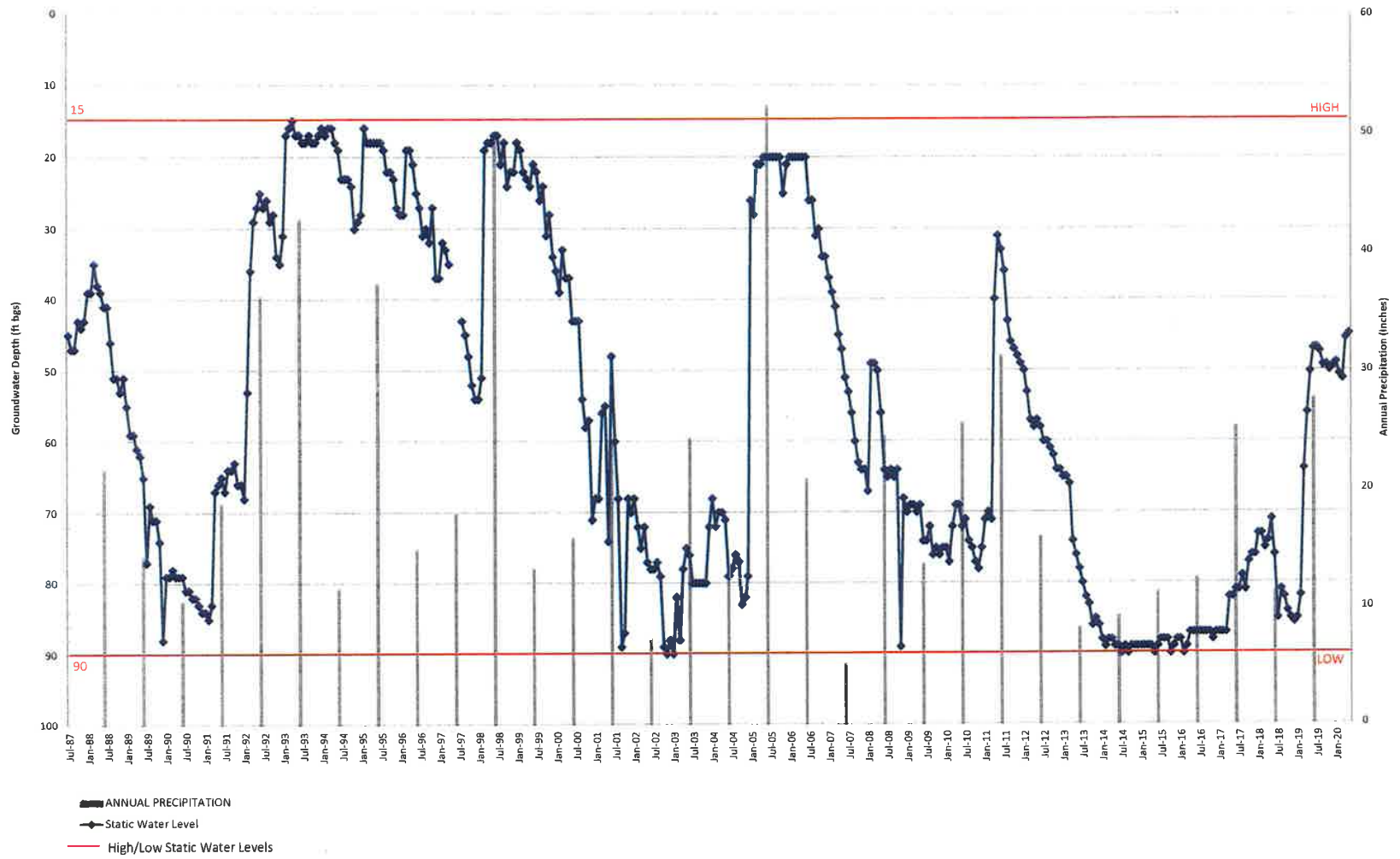
SCV WATER WELL P3
STATIC WATER LEVEL VS PRECIPITATION



SCV WATER WELL P5
STATIC WATER LEVEL VS PRECIPITATION



SCV WATER WELL P1
 STATIC WATER LEVEL VS PRECIPITATION



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

Project	Contractor	Original Contract Amount	Change Orders to Date	% Change Orders	Current Contract Amount	Scheduled Completion	Estimated % of Work Completed	Status
PFAS Groundwater Treatment Project and Well Q2 Perchlorate Removal Facility - Vessels Purchase	Evoqua Water Technologies, LLC.	\$1,727,960	\$0	0%	\$1,727,960	September 17, 2020	75%	Vessels for the N-Wells have been delivered. The delivery date for the Well Q-2 vessels is being determined.
PFAS Groundwater Treatment Project and Well Q2 Perchlorate Removal Facility - Site Construction	Pacific Hydrotech Corporation	\$4,515,000	\$0	0%	\$4,515,000	September 17, 2020	40%	Chemical building roof at the N-Wells is being installed and the concrete pad at Well Q2 is being constructed.
West Ranch Recycled Water Main Extension (Phase 2D)	Cedro Construction Inc.	\$3,112,332	\$0	\$0	\$3,112,332	September 26, 2020	3%	Pipeline construction is in progress. Installed about 2,000 L.F. of 12" DIP.
Magic Mountain Pipeline Phase 4	FivePoint / Toro Enterprises	\$3,084,725	\$294,130.72	9.5%	\$3,378,855.72	July 31, 2020	90%	Construction activities are anticipated to restart by the end of June.
Magic Mountain Pipeline Phase 5	FivePoint / Toro Enterprises	\$3,269,978.85	\$0	0%	\$3,269,978.85	July 31, 2020	90%	Construction activities are anticipated to restart by the end of June.
Magic Mountain Pipeline Phase 6A	FivePoint / Toro Enterprises	\$7,168,844.85	\$0	0%	\$7,168,844.85	October 30, 2020	6%	Construction activities are anticipated to restart by the end of June.
Magic Mountain Pipeline Phase 6B	FivePoint / Leatherwood Construction	\$4,568,687.07	\$0	0%	\$4,568,687.07	To be determined	0%	FivePoint is preparing the pre-construction documents.
Vista Canyon Recycled Water Main Extension (Phase 2B)	Ferreira Construction Co., Inc.	\$2,752,982	\$0	0%	\$2,752,982	November 18, 2020	25%	Potholing is in progress.

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

**ITEM NO.
9**

	Item	PowerPoint Presentation (Y/N/Length)	Jul 1 Comm	Jul 7 Board	Aug 4 Board	Aug 6 Comm	Sep 1 Board	Sep 3 Comm	Oct 1 Comm	Oct 6 Board	Nov 3 Board	Nov 5 Comm	Dec 7 Comm	Dec 15 Board	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
1	Monthly Committee Planning Calendar	None	P			P		P	P			P	P			P		P		P	P			P		P	
2	CIP Construction Status Report	None	P			P		P	P			P	P			P		P		P	P			P		P	
3	Monthly Operations and Production Report	None	P			P		P	P			P	P			P		P		P	P			P		P	
4	Third Party Funded Agreements Quarterly Report	None				P						P						P						P			
5	Quarterly Safety Program Presentation	Yes 15 min				P						P						P						P			
6	Annual Safety Program Update (FY 19-20)	Yes 15 min					P																				
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	P		P																						
8	Recommend Approval of a Resolution Awarding a Purchase Order for Design Services for the Replacement Wells On-Site Pipeline/Infrastructure	Yes 10 min	P		P																						
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	P		P																						
10	Recommend Approval of a Purchase Order for Final Design Services for Valley Center Well PFAS Groundwater Treatment	Yes 10 min	P		P																						
11	Recommend Approval of Construction Contract Funding and a Purchase Order for Inspection Services for Replacement Wells Commerce Center Drive Pipeline	Yes 10 min			P																						
12	Recommend Approval of Resolution Awarding Construction Contract for ESFP Washwater Return and Sludge Systems Project	TBD							P		P																
15	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													
14	Recommend Approval of a Work Authorization for Final Design of the Magic Mountain Reservoir	TBD										P		P													
15	Recommend Approval of Resolution Awarding Contract to TBD for Newhall Tank 2 Recoat and Repairs	TBD										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	Sep 1 Board	Sep 3 Comm	Oct 1 Comm	Oct 6 Board	Nov 3 Board	Nov 5 Comm	Dec 7 Comm	Dec 15 Board	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	
16	Recommend Approval of a Work Authorization for Final Design of the Groundwater Treatment Improvements	TBD											P		P													
17	Recommend Approval of Resolution Awarding Construction Contract for Pipeline to the Los Angeles Residential Community	TBD														P	P											
18	Recommend Approval of Resolution Adopting Mitigated Negative Declaration under California Environmental Quality Act for Construction of New Sand Canyon Plaza 1.5 MG Deane Tank	TBD																P	P									
19	Recommend Approval of Work Authorization for Groundwater Modeling Services for Perchlorate Containment Evaluation	TBD																		P		P						
20	Recommend Approval of Resolution Awarding Construction Contract to TBD for Recycled Water Vista Canyon (Phase 2B) Tank	TBD																		P		P						
21	Recommend Approval of Construction of Pipeline in Sierra Highway from Dockweiler to Newhall Avenue	TBD																		P		P						
22	Recommend Approval of Construction of Pressure Reducing Station In Sierra Highway	TBD																		P		P						
23	Recommend Approval of Construction of New Sand Canyon Plaza (Deane Zone) Pump Station and Cost Sharing Agreement with Developer	TBD																			P		P					
24	Recommend Approval of Construction of a New Skyline Ranch (Deane Zone) Pump Station and Cost Sharing Agreement with Developer	TBD																			P		P					
25	Recommend Approval of Construction of Two New Skyline Ranch 2.1 MG Tanks (Deane Zone) and Cost Sharing Agreement with Developer	TBD																			P		P					
26	Recommend Approval of Construction of New Sand Canyon Plaza 1.5 MG Tank (Deane Zone) and Cost Sharing Agreement with Developer	TBD																								P	P	