

TO: BOARD OF DIRECTORS
FROM: RAY DIENZO, P.E. R.D.
GENERAL MANAGER
DATE: JANUARY 18, 2024



PRESENTATIONS AND REPORTS

The following presentations and reports are scheduled:

- C-1) PRESENTATION OF RESOLUTION OF APPRECIATION FOR LISA S. BOGNUDA
- C-2) DIRECTORS' ANNOUNCEMENTS OF DISTRICT AND COMMUNITY INTEREST AND REPORTS ON ATTENDANCE AT PUBLIC MEETINGS, TRAINING PROGRAMS, CONFERENCES AND SEMINARS. Receive Announcements and Reports from Directors
- C-3) 2023 FALL GROUNDWATER INDEX REVIEW [RECOMMEND RECEIVE AND FILE REPORT]
- C-4) QUARTERLY DISTRICT ENGINEER'S REPORT TO THE BOARD [RECOMMEND RECEIVE AND FILE]
- C-5) RECEIVE PUBLIC COMMENT ON PRESENTATIONS AND REPORTS PRESENTED UNDER ITEM C AND BY MOTION RECEIVE AND FILE PRESENTATIONS AND REPORTS

TO: BOARD OF DIRECTORS
FROM: RAY DIENZO, P.E. R.D.
GENERAL MANAGER
DATE: JANUARY 18, 2024



2023 FALL GROUNDWATER INDEX REVIEW

ITEM

Receive the Fall 2023 Groundwater Index Report for the Nipomo Mesa area. [RECOMMEND RECEIVE AND FILE REPORT]

BACKGROUND

Dr. Brad Newton provided the attached Technical Memorandum #47 ("Memorandum") for Board review and consideration. The Memorandum provides the most current data for the Ground Water Index ("GWI") and provides the Fall 2023 Ground Water Index reading. In summary, the Fall 2023 GWI has increased in comparison with the Fall 2022 GWI, from 36,000 acre feet to 62,000 acre feet.

Dr. Newton's report and the Groundwater Index are independent work products of the District and are not reviewed by the Nipomo Mesa Management Area Technical Group.

FISCAL IMPACT

Funds for preparation of this report are included in the FY 2023-24 Budget.

STRATEGIC PLAN

Goal 1. WATER SUPPLIES. Actively plan to provide reliable water supply of sufficient quality and quantity to serve both current customers and those in the long-term future.

1.6 Continue to monitor and participate in water supply issues and programs with other local and regional organizations.

RECOMMENDATION

Staff recommends that the Board receive the Report and give direction to staff as needed.

ATTACHMENTS

- A. Technical Memorandum #47 - Fall 2023 Ground Water Index
- B. Fall 2023 Ground Water Index Presentation

JANUARY 24, 2024

ITEM C-3

ATTACHMENT A



TECHNICAL MEMORANDUM

1
2
3 **TO:** Raymond Dienzo, General Manager NCSD
4 **FROM:** Brad Newton, Ph.D., P.G.
5 **RE:** Technical Memorandum #47 – Fall 2023 Ground Water Index and 2023 Key Wells
6 Index
7 **DATE:** January 17, 2024

8 INTRODUCTION

9 Groundwater surface elevations (GSE) underlying the Nipomo Mesa are regularly
10 measured at many places (wells) across the mesa. The Fall 2023 Ground Water Index (GWI) has
11 been computed from GSE measurements collected during fall across the Nipomo Mesa and
12 presented herein along with historical GWI from 1975 to present. Limited measurements of
13 GSE were available for the years 1978, 1982, 1983, 1984, 1994 and 1997, precluding a reliable
14 calculation of GWI for those years.

15 **The Nipomo Mesa Management Area (NMMA) Technical Group (TG) has not**
16 **reviewed this technical memorandum, its findings, or any presentation of this evaluation.**

17

18 RESULTS

19 The Fall 2023 GWI is 62,000 AF (Table 1, Figure 1), an increase from both the Spring and
20 Fall values in 2023 and 2022. The GWI has been in decline since the turn of the century, despite
21 the minor increases that occurred in 2006, 2012, and 2017. The increase in this Spring and Fall
22 2023 GWI is largely responding to the estimated 29.2 inches of rainfall this year, significantly
23 greater than average annual rainfall of 16.3 inches, the reduction of groundwater pumping
24 during this five month long rainy season (Dec 2022 to April 2023), and the continued recharge
25 of groundwater to the Santa Maria Groundwater Basin from releases out of Twitchell Reservoir
26 from May into December. The rainfall during the 2023 season is approximately 179 percent of
27 the long-term average. The longest local rainfall record is from 1921 to present measured at the
28 Mehlschau Ranch (Gauge #38) with an average annual rainfall of 16.49 inches per year.

29 Generally, the GWI has been in decline since the turn of the century, even while rainfall
30 was slightly above average (16.87 inches) from 2001 to 2011 (Figure 2). Consumptive use of
31 ground water produced is certainly a contributing factor to the GWI (Technical Memorandum
32 #30 - Fall 2014 Ground Water Index and Hydrologic Inventory Analysis, December 10, 2014).
33 Consumptive use of ground water produced is a significant component of the hydrologic
34 inventory, currently being managed through conservation. The new water brought to the

TO: Raymond Dienzo, GM NCSD

RE: Fall 2023 GWI

DATE: December 26, 2023

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1 Nipomo Mesa through the Nipomo Supplemental Water Project (NSWP) is also a major
2 contributing factor to the GWI, reducing the amount of groundwater produced to meet
3 customer demand by approximately one-half in recent years. An additional benefit of the new
4 NSWP water brought to the Nipomo Mesa is the return flow which increases the amount of
5 groundwater available for future production locally. Consumptive use of groundwater is
6 relatively constant from year to year, and when drought occurs (13.33 inches average rainfall
7 from 2012 to 2022) the impacts to groundwater elevations can be extreme.

8 The 2023 Key Well Index (KWI) value (17.3 ft msl) has increased from the previous year
9 (7.5 ft msl), and yet remains in the Severe Water Shortage Condition (see Methodology for KWI
10 explanation). The KWI generally follows the same historical trends as the GWI (Figure 1).

11 **METHODOLOGY**

12 The calculation of spring and fall GWI are based on GSE measurements regularly made by
13 San Luis Obispo County Department of Public Works (SLO DPW), NCSD, USGS, and
14 Woodlands. The integration of GSE data is accomplished by using computer software to
15 interpolate between measurements and calculate GWI within the principal production aquifer
16 assuming an unconfined aquifer and a specific yield of 11.7 percent. Limited measurements of
17 GSE were available for the years 1982, 1983, 1984, 1994 and 1997, precluding a reliable
18 calculation of GWI for those years.

19 **Groundwater Surface Elevation Measurements**

20 Groundwater surface elevation data were obtained from SLO DPW, NCSD, USGS, and
21 Woodlands. SLO DPW measures GSE in monitoring wells during the spring (April) and the fall
22 (October) of each year. Woodlands and NCSD measures GSE in their monitoring wells
23 monthly. For the years 1975 to 1999, available representative GSE data were used to compute
24 GWI. For the years 2000 to present, only GSE data from the same 45 wells were used to
25 compute GWI.

26 The GSE data was reviewed in combination with well completion reports and historical
27 hydrographic records in order to exclude measurements that likely do not accurately represent
28 static water levels within the principal production aquifer. Wells that do not access the
29 principal production aquifer or were otherwise determined to not accurately represent static
30 water levels within the aquifer were not included in analysis.

TO: Raymond Dienzo, GM NCSD

RE: Fall 2023 GWI

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1 **Groundwater Surface Interpolation**

2 The individual GSE measurements from each year were used to produce a GSE field by
3 interpolation using the inverse distance weighting method.

4 **Ground Water Index**

5 The GWI is defined as the annually normalized value of the saturated volume above sea
6 level and bedrock multiplied by the specific yield of 11.7 percent. The GWI is comprised from
7 approximately 45 ground water elevation measurements made by the County of San Luis
8 Obispo each April and October. The value of the Ground Water Index was computed for an
9 area approximately similar to the NMMA Boundary. The base of the saturated volume is mean
10 sea level surface (elevation equals zero) or the bedrock, whichever is higher. The bedrock
11 surface elevation is based on Figure 11: Base of Potential Water-Bearing Sediments, presented in
12 the report, Water Resources of the Arroyo Grande - Nipomo Mesa Area (DWR 2002). The
13 bedrock surface elevation was preliminarily verified by reviewing driller reports obtained from
14 DWR. The specific yield is based on the average weighted specific yield measurement made at
15 wells within the Nipomo Mesa Hydrologic Sub-Area (DWR 2002, pg. 86). The GWI is similar to
16 the Key Well Index presented in the Nipomo Mesa Management Area Technical Group annual
17 report to the Court, but is not directly comparable.

18 **Key Well Index**

19 The Key Well Index (KWI) was developed by the NMMA Technical Group from eight
20 inland wells representing the whole of the groundwater basin within the NMMA. The Key
21 Well Index was defined for each year from 1975 to present as the average of the normalized
22 spring groundwater data from each well.

23 Details of the KWI, as well as the established responses to Potentially Severe Water
24 Shortage Conditions and Severe Water Shortage Conditions, are explained in the NMMA TG's
25 annual report of groundwater conditions. The report's appendices include a Water Shortage
26 Conditions and Response Plan (Appendix B), and the NMMA Well Management Plan and the
27 NMMA Water Shortage Response Stages (Appendix C). The NMMA 15th Annual Report -
28 Calendar Year 2022, including appendices, is available as a digital document at
29 <http://ncsd.ca.gov/resources/reports-by-subject/#nmma>.

30 **REFERENCES**

31 Department of Water Resources [DWR]. 2002. Water Resources of the Arroyo Grande - Nipomo
32 Mesa Area, Southern District Report. 2002.

33 Nipomo Mesa Management Area [NMMA]. 2023. 15th Annual Report - Calendar Year 2022.
34 NMMA TG.

35

TO: Raymond Dienzo, GM NCSD

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**Spring and Fall
Groundwater Index
(GWI)**

Year	Rainfall Water Year (inches)	Spring GWI (Acre-Feet)	Number of Wells	Fall GWI (Acre-Feet)	Number of Wells	Spring to Fall Difference (Acre-Feet)
1975	17.29	99,000	54	91,000	54	8,000
1976	13.45	82,000	45	76,000	65	6,000
1977	10.23	64,000	59	54,000	63	10,000
1978	30.00	84,000	62	---	35	---
1979	15.80	72,000	57	77,000	63	(5,000)
1980	16.57	88,000	55	89,000	46	(1,000)
1981	14.32	97,000	46	75,000	47	22,000
1982	18.58	123,000	42	---	31	---
1983	33.09	---	35	95,000	42	---
1984	10.38	---	14	76,000	37	---
1985	12.20	106,000	37	82,000	41	24,000
1986	16.85	98,000	51	67,000	51	31,000
1987	11.29	83,000	48	71,000	52	12,000
1988	12.66	80,000	51	66,000	49	14,000
1989	12.25	59,000	47	47,000	57	12,000
1990	7.12	62,000	55	49,000	53	13,000
1991	13.18	62,000	52	55,000	54	7,000
1992	15.66	61,000	52	35,000	48	26,000
1993	20.17	72,000	54	52,000	61	20,000
1994	12.15	60,000	54	---	36	---
1995	25.87	87,000	35	74,000	52	13,000
1996	16.54	76,000	45	62,000	57	14,000
1997	20.50	---	20	91,000	48	---
1998	33.67	105,000	41	93,000	44	12,000
1999	12.98	106,000	56	88,000	49	18,000
2000	14.47	108,000	44	84,000	41	24,000
2001	21.62	118,000	43	85,000	35	33,000
2002	10.25	96,000	29	79,000	41	17,000
2003	11.39	94,000	37	66,000	42	28,000
2004	12.57	89,000	42	81,000	35	8,000
2005	22.23	98,000	38	79,000	39	19,000
2006	20.83	107,000	44	78,000	41	29,000
2007	7.11	93,000	44	66,000	42	27,000
2008	15.18	83,000	43	65,000	42	18,000
2009	10.31	76,000	44	65,000	43	11,000
2010	20.07	80,000	45	67,000	42	13,000
2011	34.05	87,000	43	81,000	43	6,000
2012	15.35	89,000	45	65,000	44	24,000
2013	8.07	67,000	45	42,000	43	25,000
2014	4.72	57,000	45	47,000	42	10,000
2015	8.65	52,000	42	45,000	39	7,000
2016	11.48	62,000	39	50,000	41	12,000
2017	29.41	70,000	36	52,000	43	18,000
2018	10.16	58,000	42	56,000	38	2,000
2019	23.71	57,000	42	40,000	42	17,000
2020	15.85	61,000	39	38,000	41	23,000
2021	8.48	34,000	41	38,000	39	(4,000)
2022	10.75	42,000	37	36,000	38	6,000
2023	29.2*	54,000	39	62,000	38	(8,000)

---: Insufficient for evaluation

*: Preliminary value

Table 1: Spring and Fall GWI computed from Spring 1975 to present.

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TO: Raymond Dienzo, GM NCSD
RE: Fall 2023 GWI
DATE: December 26, 2023
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Spring and Fall Groundwater Index (GWI)

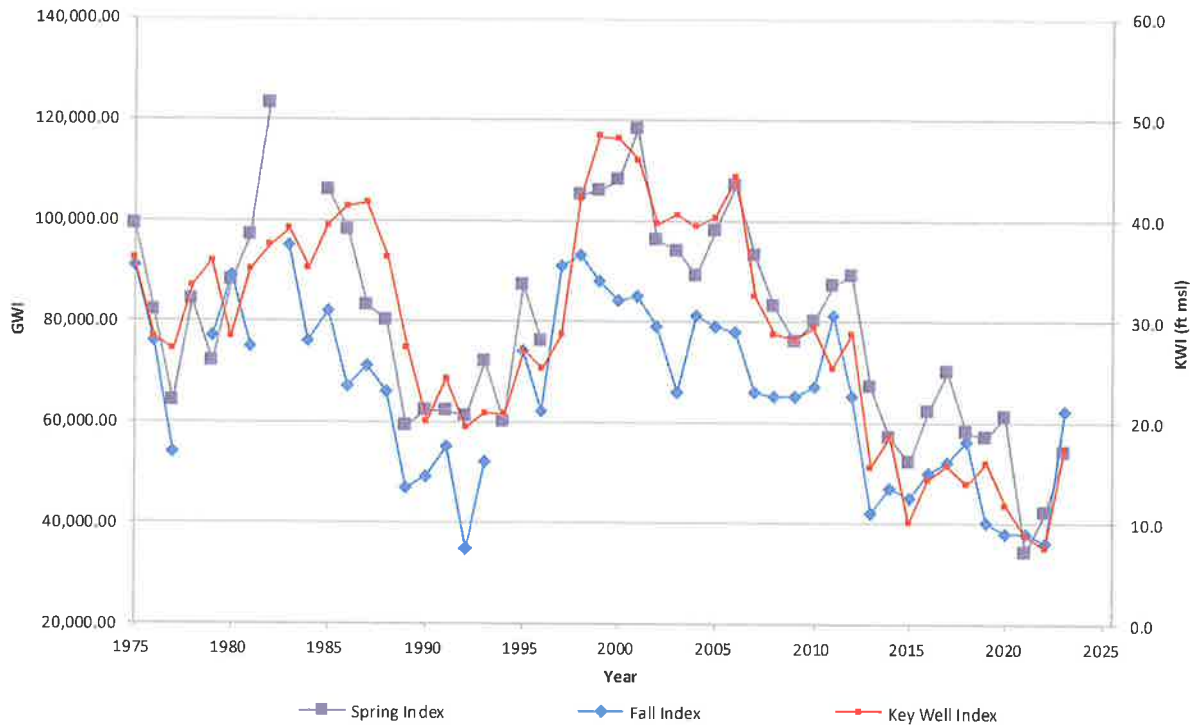


Figure 1: Spring and Fall GWI, and KWI (Spring only) from 1975 to present.

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TO: Raymond Dienzo, GM NCSD
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DATE: December 26, 2023
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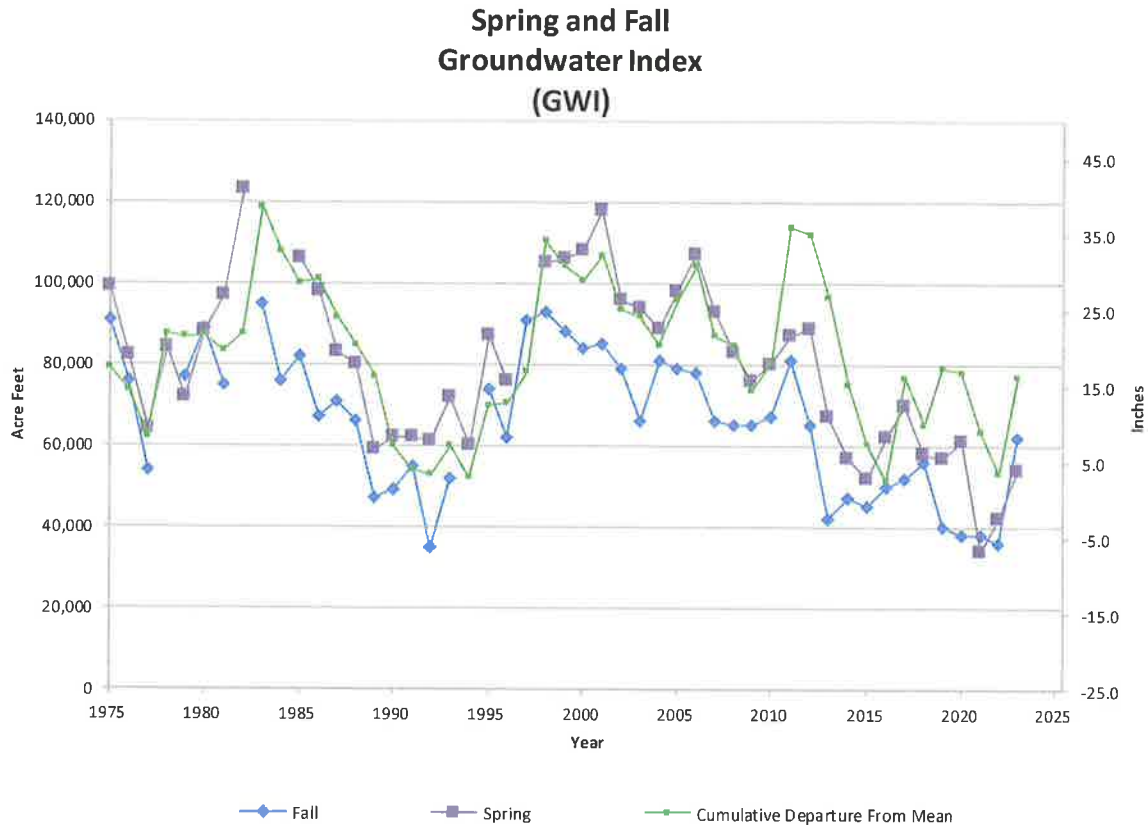


Figure 2: Spring and Fall GWI, and Cumulative Departure of Annual Rainfall from the Mean Rainfall, 1975 to present.

1
2
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JANUARY 24, 2024

ITEM C-3

ATTACHMENT B

An aerial photograph of a rural landscape, likely agricultural, with a yellow boundary line tracing a path through the fields. The text is overlaid on the right side of the image.

Fall 2023 Ground Water Conditions

Prepared by
Newton Geo-Hydrology Consulting Services

January 24, 2024

An aerial photograph of a rural landscape, likely a watershed, with a yellow boundary line tracing a path across the terrain. A blue horizontal line is drawn across the upper portion of the image. The text 'OUTLINE' is positioned in the upper right corner.

OUTLINE

Ground Water Index – Fall 2023
Key Wells Index 2023
Rainfall

GWI 1975 - 2023

GWI

Spring and Fall
Groundwater Index
(GWI)

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--- Insufficient for evaluation
* Preliminary value

GWI 1975 - 2023

GWI

Spring and Fall
Groundwater Index
(GWI)

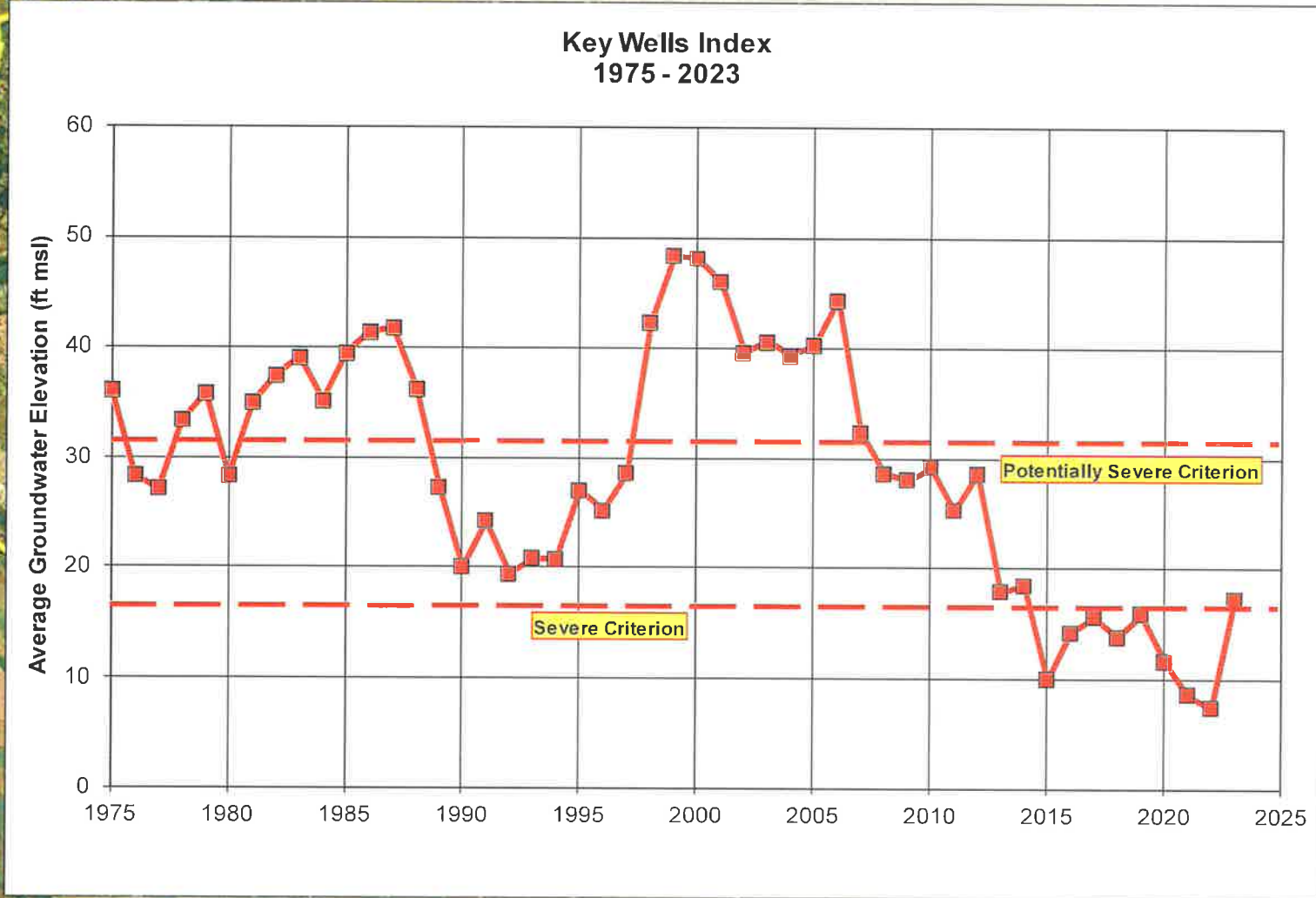
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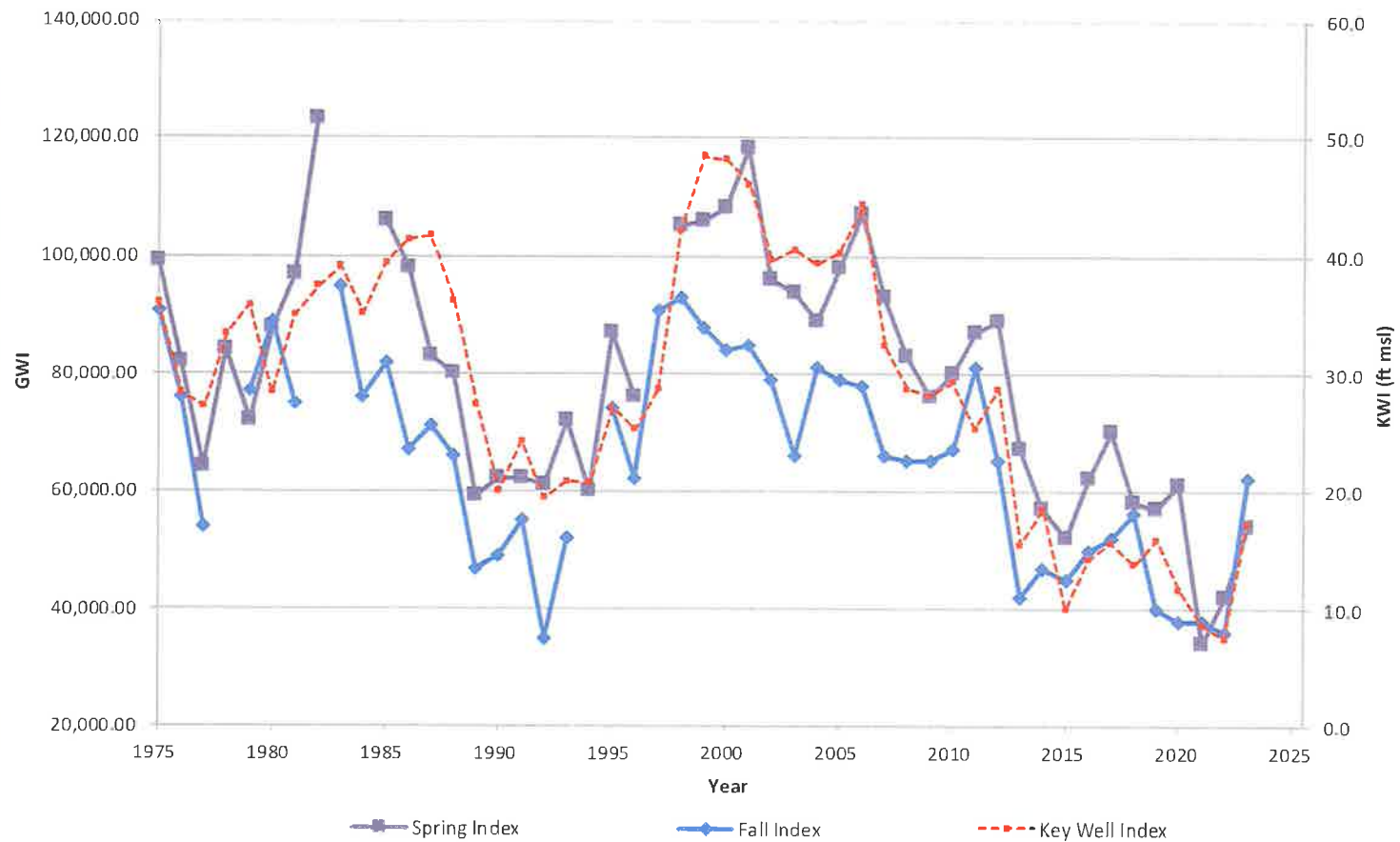
*: Preliminary value

2023 Key Wells Index



GWI and KWI

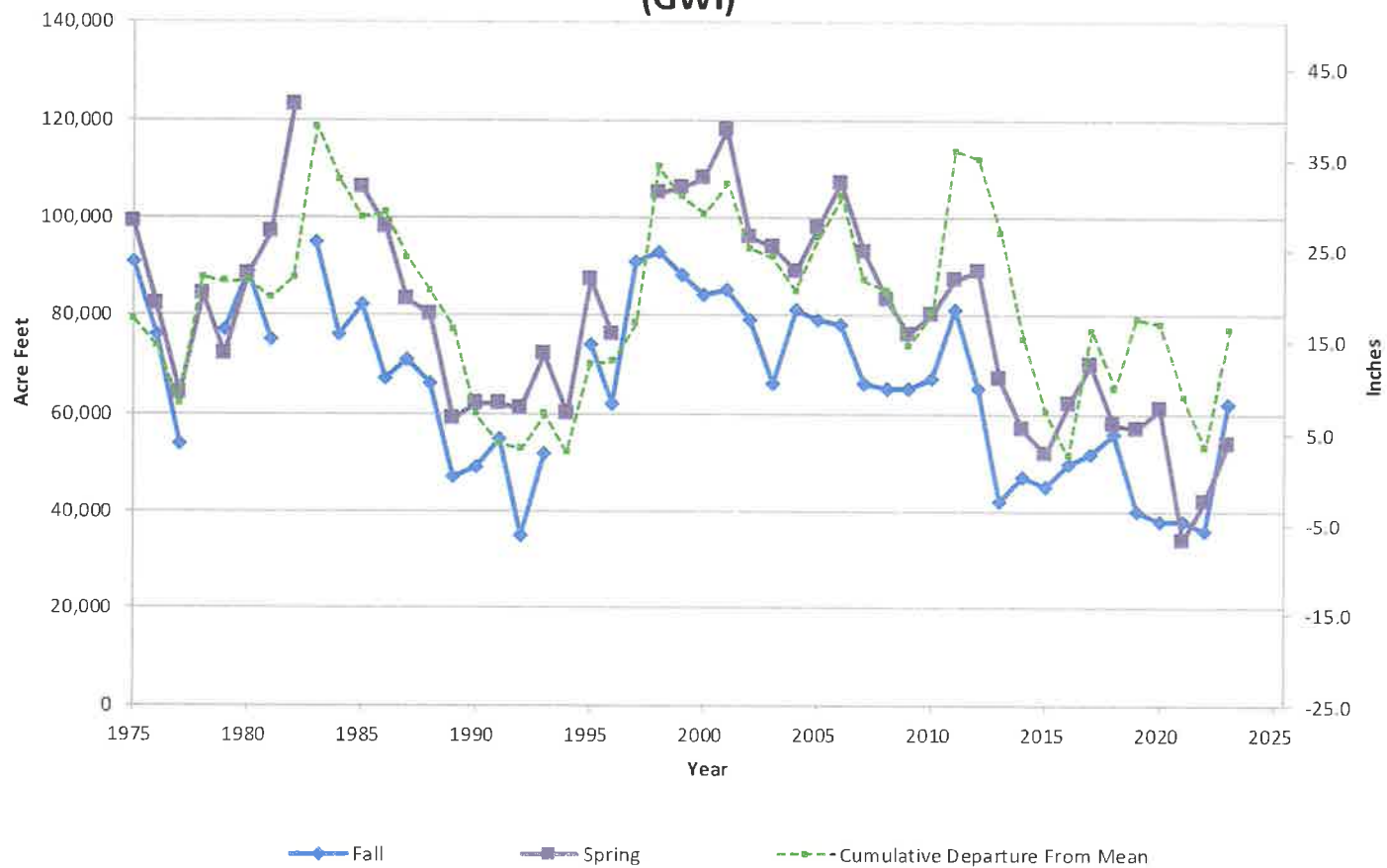
Spring and Fall Groundwater Index (GWI)



GWI - CDMR

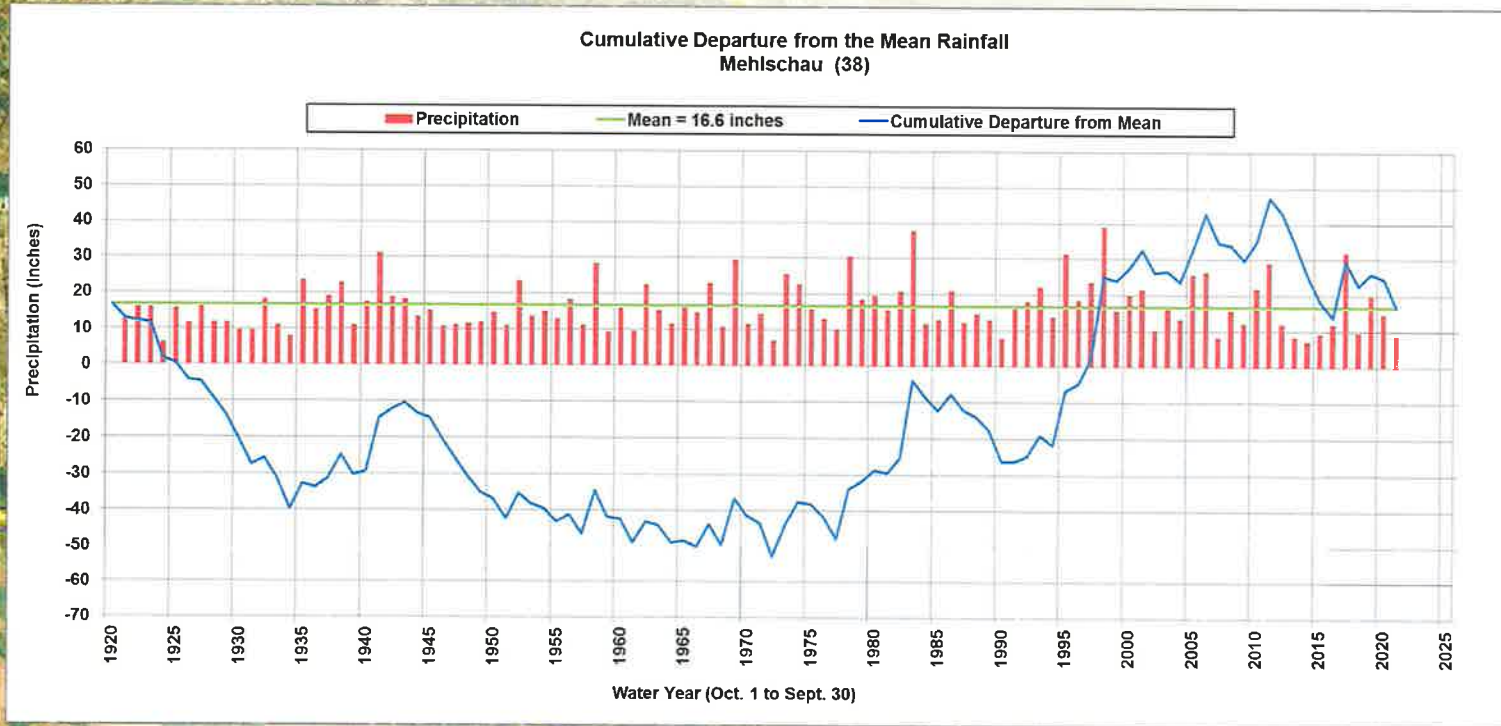
GWI Rainfall

Spring and Fall Groundwater Index (GWI)

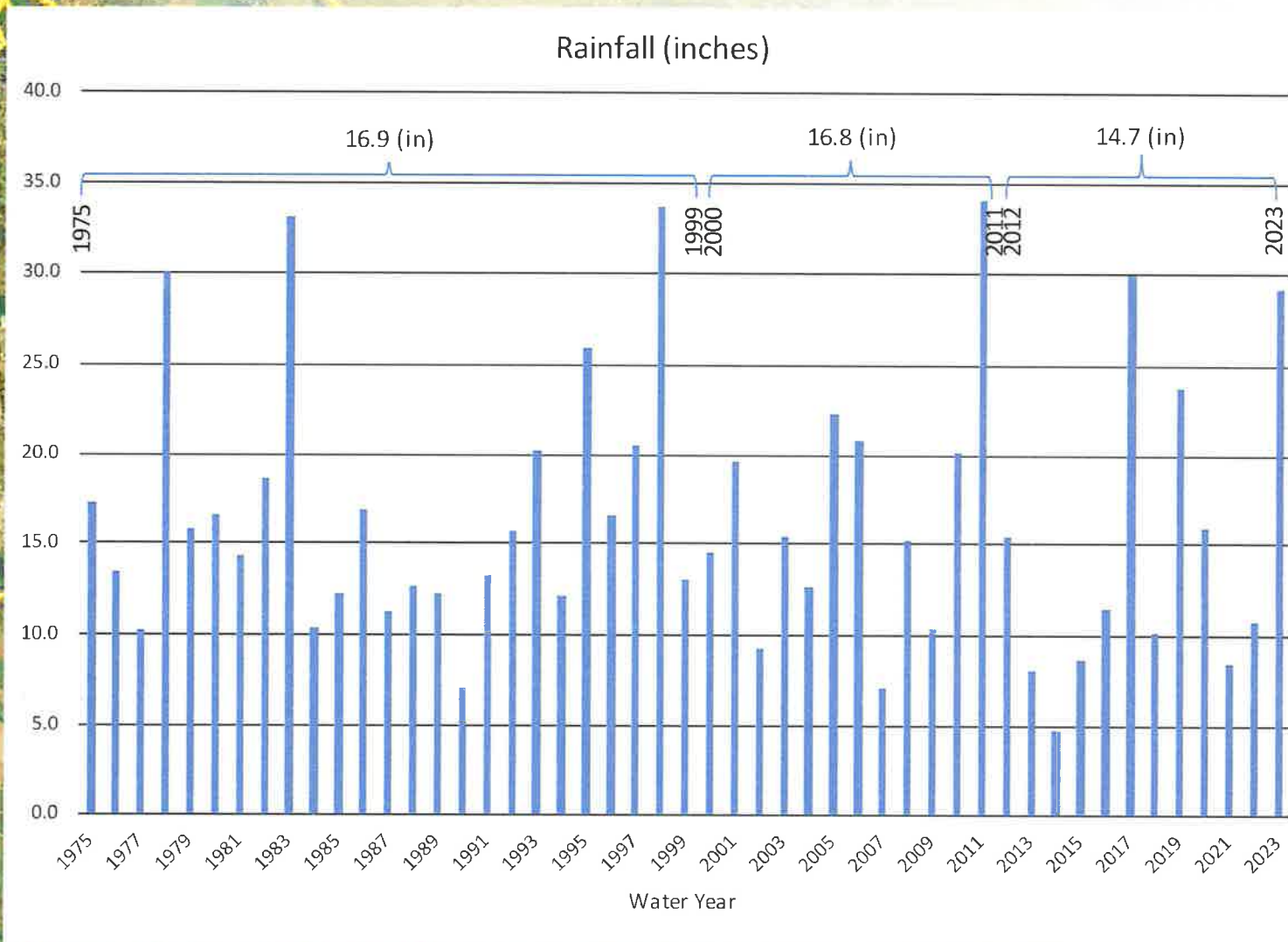


Rainfall @ Mehlschau (#38) 1921 - 2021

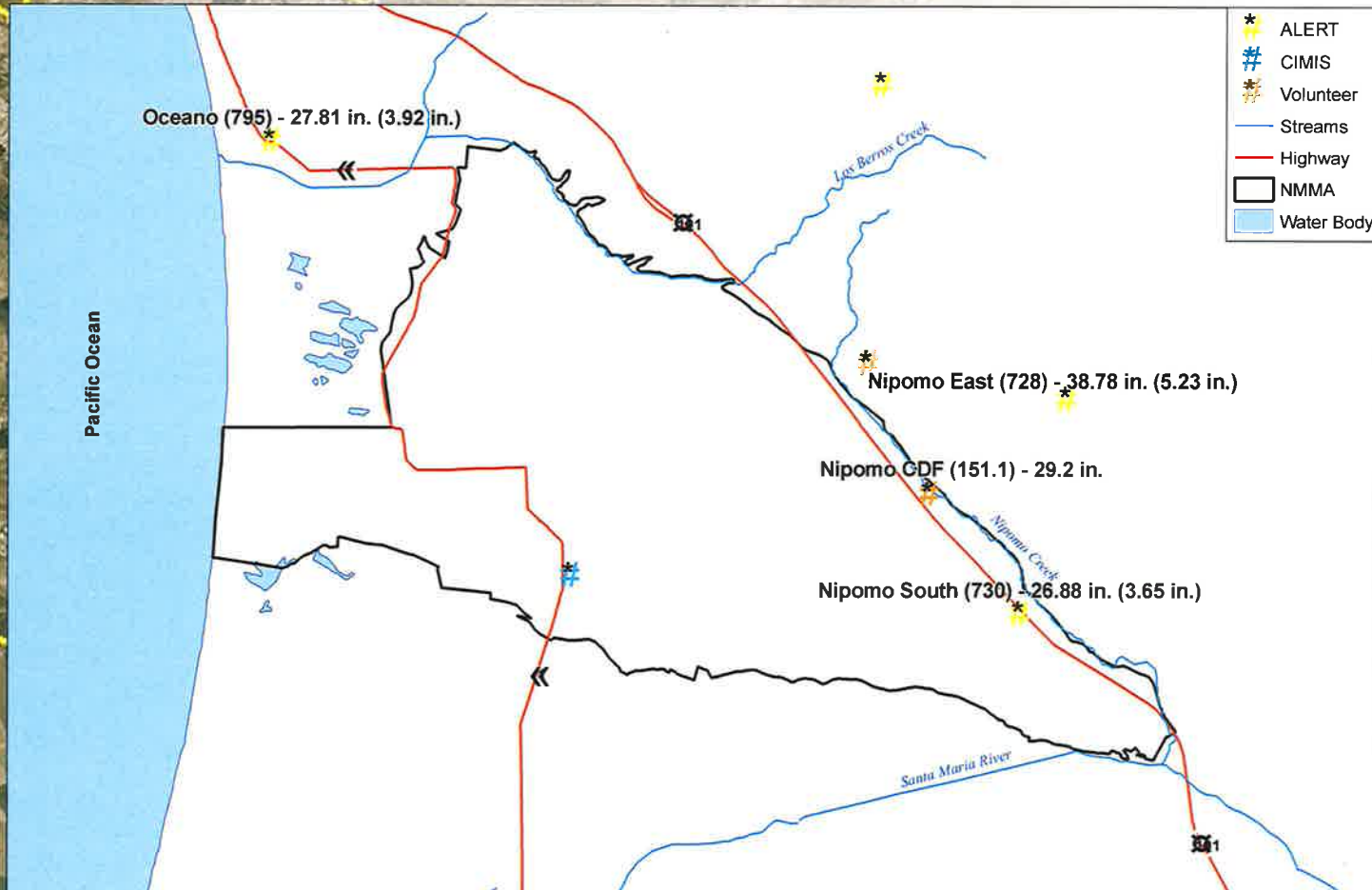
Longest Rainfall Record



Rainfall Record



2023 WY Rainfall Totals (2024 WY To-date)



- * ALERT
- # CIMIS
- * Volunteer
- Streams
- Highway
- NMMA
- Water Body

NOTES:
Coordinate System: UTM Zone 10N
Horizontal Datum: NAD 83
Station Locations: SLO County and CIMIS
*Voluntary gauge data collection occurs in July of each year, and rainfall is assumed to be zero for the remainder of the water year.
ND = no data

Location of Rainfall Stations and Water Year 2023 Rainfall Totals (WY2024 To-date)



DATE: 12/29/2023 BY: B. Newton

An aerial photograph of a rural landscape, possibly a farm or agricultural area. The terrain is divided into various colored patches, likely representing different crops or land uses. A prominent yellow line traces a path across the landscape, starting from the top left, curving around a central area, and extending towards the bottom right. A solid blue horizontal line is drawn across the upper portion of the image. The word "QUESTIONS?" is overlaid in large, bold, black capital letters in the center of the image.

QUESTIONS?

TO: BOARD OF DIRECTORS
REVIEWED: RAY DIENZO, P.E. R.D.
GENERAL MANAGER
FROM: PETER V. SEVCIK, P.E.
DIRECTOR OF
ENGINEERING & OPERATIONS
DATE: JANUARY 18, 2024

AGENDA ITEM
C-4
JANUARY 24, 2024

QUARTERLY DISTRICT ENGINEER'S REPORT TO THE BOARD

ITEM

Engineering and Operations update for October through December 2023. [RECOMMEND RECEIVE AND FILE]

BACKGROUND

Director of Engineering and Operations, Peter Sevcik, will overview his update [Attachment A] and discuss District projects for the October 2023 through December 2023 period.

RECOMMENDATION

Staff recommends that your Honorable Board receive the update.

ATTACHMENTS

- A. Engineering and Operations Update for October through December 2023.

JANUARY 24, 2024

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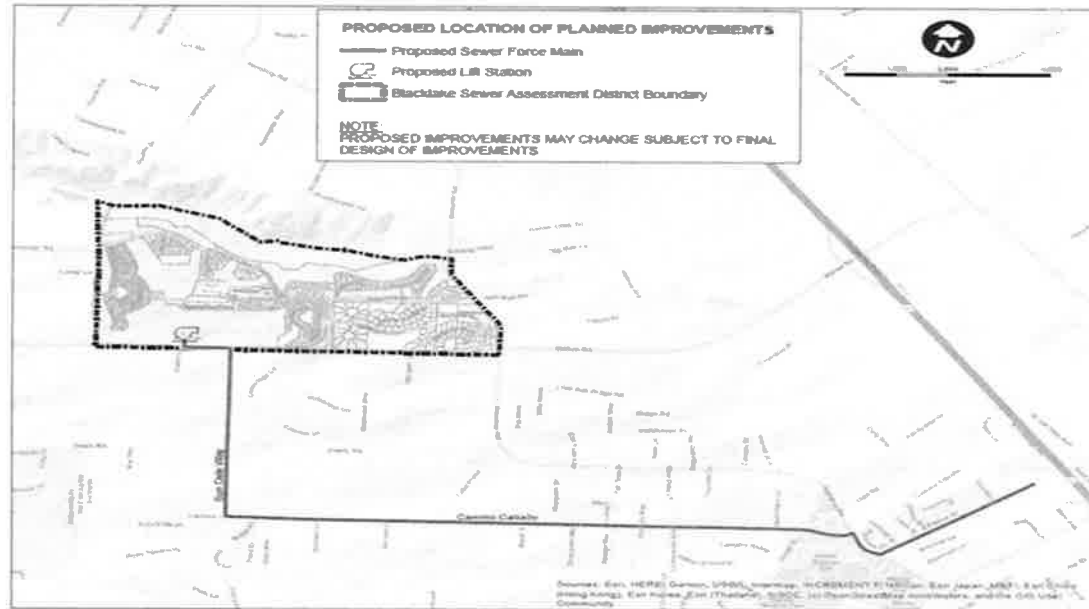
ATTACHMENT A

Engineering and Operations Update – October 2023 to December 2023



Peter V. Sevcik, PE
Director of Engineering and Operations
Nipomo Community Services District
January 24, 2024

Blacklake Sewer System Consolidation Project



- Construction of lift station and force main to pump wastewater to Southland Wastewater Treatment Facility
- Decommission existing Blacklake Water Reclamation Facility



Blacklake Sewer System Consolidation Project

Major Task Status

- Southland WWTF Permit
 - Submitted application to RWQCB in 4/2023 to enroll facility in general permit for facilities with flows greater than 100,000 gallons per day in order to accept flow from the Blacklake Sewer Service Area



Blacklake Sewer System Consolidation Project

Major Task Status

- Design
 - Final Blacklake and Woodgreen lift station plans and specifications pending completion of permitting process
 - Lift station contractor prequalification completed
- Environmental Review
 - California Red Legged Frog (CRLF) Habitat Conservation Plan (HCP) submitted to USFWS
 - HCP based on mitigating for potential CRLF habitat loss by paying into federal CRLF mitigation fund

Blacklake Sewer System Consolidation Project

Schedule Milestones	Original	Revised Force Main	Revised Lift Station
Design Completion	12/2021	10/2022	3/2024
Construction Permitting Completion	12/2021	10/2022	2/2024
Board Authorization to Pre-Qualify	1/2022	7/2022	9/2023
Board Authorization to Bid	3/2022	10/2022	12/2023
Board Construction Contract Award	6/2022	1/2023	5/2024
Construction Completion	3/2024	1/2024	7/2025

Blacklake Sewer System Consolidation Project

Item Description	Project Budget Costs	Contract Costs to Date	% Budget Contract Costs to Date
1 Blacklake Lift Station	\$ 605,550	\$ -	0.0%
2 Force Main	\$ 5,162,350	\$ 4,881,812	94.6%
3 WRF Demolition	\$ 915,400	\$ -	0.0%
4 Construction Subtotal	\$ 6,683,300	\$ 4,881,812	73.0%
5 Permitting (CEQA)	\$ 116,240	\$ 87,110	74.9%
6 Engineering Design	\$ 871,800	\$ 808,916	92.8%
7 Construction Management and Inspection	\$ 871,800	\$ 467,727	53.7%
8 CEQA/Design/CM Subtotal	\$ 1,859,840	\$ 1,363,753	73.3%
9 Contingency	\$ 1,743,600	\$ -	0.0%
10 Total Project Cost	\$10,286,740	\$ 6,245,565	60.7%

Status Report Date 1/18/2024



Projects in Construction

- Blacklake Sewer System Consolidation Project Force Main
 - Scope includes 21,000 linear feet of sewer pipe installed by open cut and directional drilling methods, pavement restoration, and related appurtenances
 - Project close out in progress
 - Contract cost - \$4,881,812



Projects in Construction

- Branch Street Watermain Replacement Project
 - Scope includes 1560 linear feet of 8 inch diameter watermain, 4 fire hydrants, abandonment of 6 inch diameter watermain located in an alley, new water services, and reconnection of existing water services
 - Project close out in progress
 - Contract cost - \$862,390

Projects in Construction

- Southland WWTF Influent Pump Station Repair
 - Scope includes repair and recoating of chemical resistant coatings in influent pump station wetwell and approach manhole as well as removal and replacement of influent pump discharge piping and installation of odor control equipment
 - Wetwell coating completed and bypass operations completed
 - Odor control equipment installation still to be completed
 - Contract cost - \$607,083

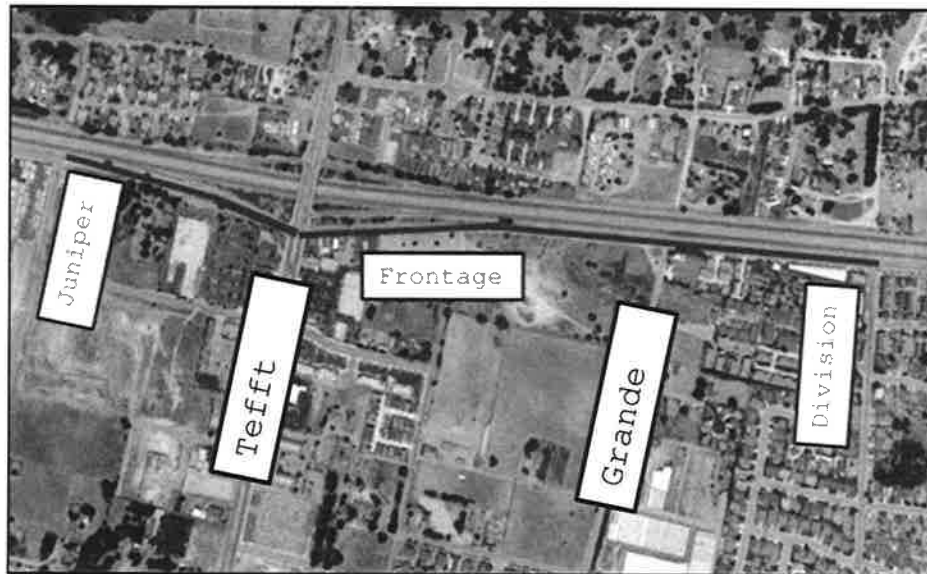


Projects in Construction

- District Office Generator
 - Completion of electrical work anticipated in 4/2024 pending receipt of new service panel
- Operations Building Roof Replacement
 - Gutter replacement pending completion in 2/2024

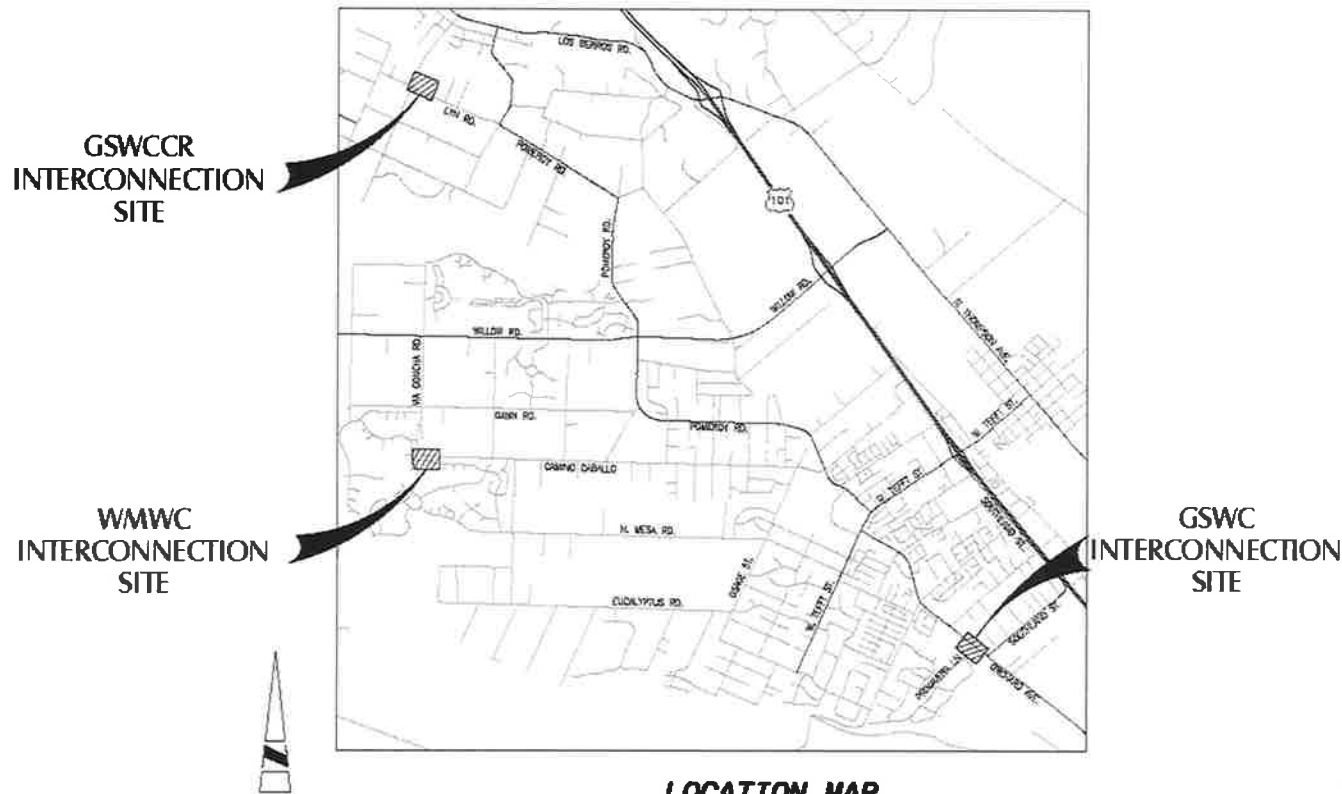
Projects in Design

- Frontage Road Trunk Sewer Replacement
 - 100% design completion pending receipt of encroachment permits
 - Caltrans Encroachment Permit pending
 - SLO County Encroachment Permit pending

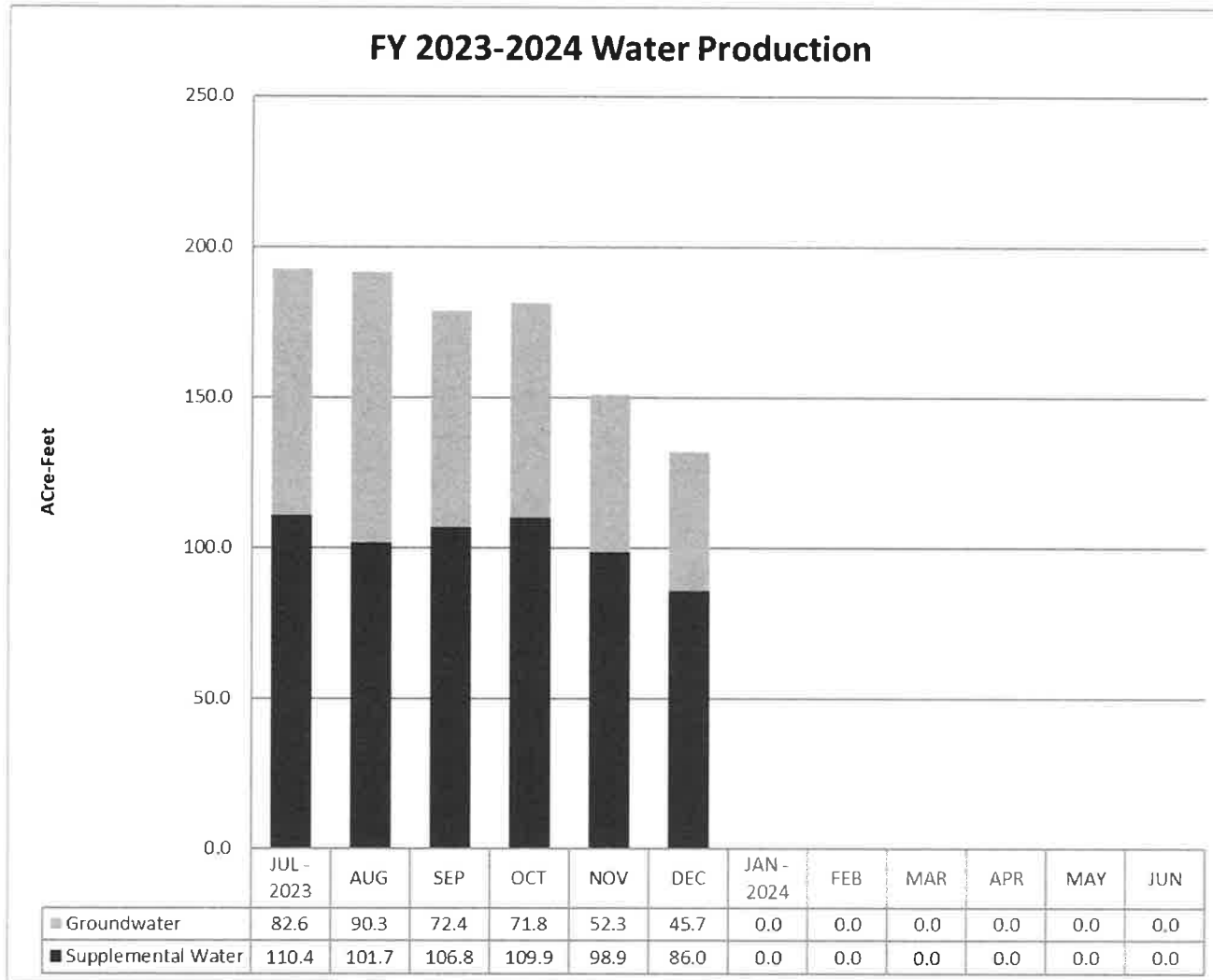


Projects in Design

- Supplemental Water Project Interconnects
 - Final design in progress

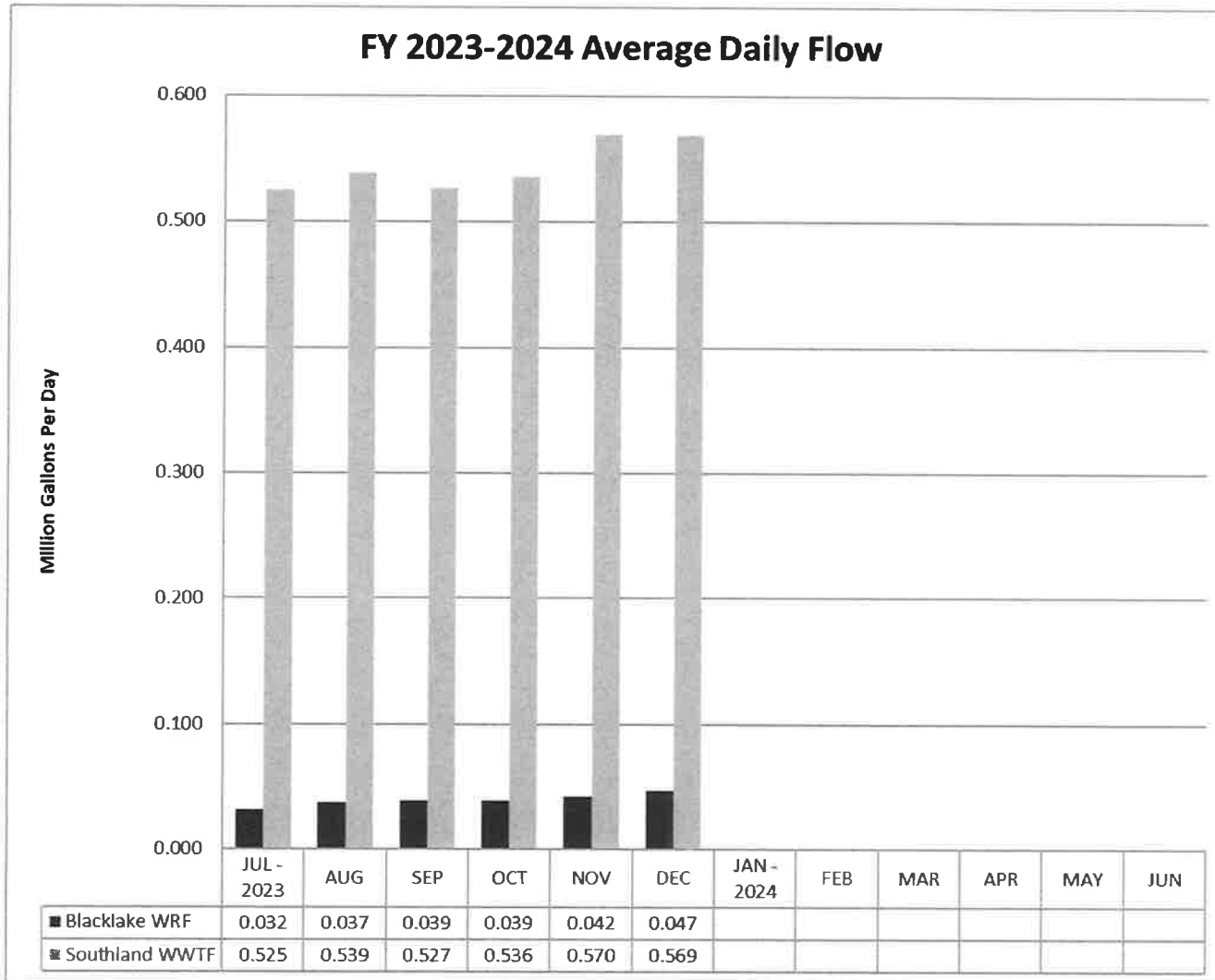


Operations – Water System



Supplemental Water	614 AF
Groundwater	415 AF
FY 23-24 Total Production To Date	1029 AF

Operations – Wastewater



Blacklake WRF	7.1 MG
Southland WWTF	100 MG
FY 23-24 Total Wastewater Flow Treated To Date	107.1 MG or 329 AF



Engineering and Operations

Questions