



TO: BOARD OF DIRECTORS
FROM: MARIO IGLESIAS
GENERAL MANAGER 
DATE: JULY 7, 2023



PRESENTATIONS AND REPORTS

The following presentations and reports are scheduled:

- C-1) SPRING 2023 GROUNDWATER INDEX REVIEW, NEWTON GEO-HYDROLOGY CONSULTING SERVICES [RECOMMEND RECEIVE AND FILE REPORT]
- C-2) QUARTERLY DISTRICT ENGINEER'S REPORT TO THE BOARD [RECOMMEND RECEIVE AND FILE]
- C-3) 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-4) 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: MARIO IGLESIAS
GENERAL MANAGER 
DATE: JULY 7, 2023

AGENDA ITEM C-1

JULY 12, 2023

SPRING 2023 GROUNDWATER INDEX REVIEW, NEWTON GEO-HYDROLOGY CONSULTING SERVICES

ITEM

Presentation of the spring groundwater index for the Nipomo Mesa area. [RECOMMEND RECEIVE REPORT]

BACKGROUND

Doctor Brad Newton will review recent work to update the Ground Water Index and will provide a presentation of the Spring 2023 Ground Water Index reading.

Doctor Newton's report and the Ground Water Index is an independent work product of the District and is 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.


ATTACHMENTS

- A. Spring 2023 Groundwater Index Presentation
- B. Draft Technical Memorandum #46 – Spring 2023 Ground Water Index

JULY 12, 2023

ITEM C-1

ATTACHMENT A

An aerial photograph of a rural landscape, likely a farm or agricultural area, with a yellow boundary line drawn around a central portion of the land. The terrain is a mix of green fields, brown soil, and some buildings. The text is overlaid on the right side of the image.

Spring 2023 Ground Water Conditions

Prepared by
Newton Geo-Hydrology Consulting Services
July 12, 2023

An aerial photograph of a rural area with a yellow boundary line and a blue horizontal line. The yellow line follows a path through the landscape, possibly a river or a specific administrative boundary. The blue line is a straight horizontal line across the top of the image. The text 'OUTLINE' is positioned in the upper right corner.

OUTLINE

Ground Water Index – Spring 2023
Key Wells Index 2023
Rainfall



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	78,000	45	4,000
1977	10.23	84,000	59	84,000	59	10,000
1978	30.00	84,000	65	—	35	—
1979	15.80	72,000	57	77,000	63	(5,000)
1980	16.57	85,000	55	89,000	49	(1,000)
1981	14.32	97,000	48	75,000	47	22,000
1982	18.58	123,000	42	—	31	—
1983	33.09	—	35	95,000	42	—
1984	10.38	—	14	75,000	37	—
1985	12.20	106,000	37	82,000	41	24,000
1986	16.85	96,000	51	87,000	51	31,000
1987	11.29	83,000	46	71,000	52	12,000
1988	12.86	80,000	51	86,000	49	14,000
1989	12.25	89,000	47	47,000	57	12,000
1990	7.12	62,000	55	49,000	53	13,000
1991	13.13	62,000	62	55,000	54	7,000
1992	15.88	61,000	52	35,000	49	26,000
1993	20.17	72,000	54	52,000	61	20,000
1994	12.18	80,000	54	—	38	—
1995	25.87	87,000	35	74,000	52	13,000
1996	16.54	78,000	45	62,000	57	14,000
1997	20.60	—	20	91,000	49	—
1998	33.87	105,000	41	93,000	44	12,000
1999	12.98	108,000	58	88,000	49	18,000
2000	14.47	103,000	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	31,000	38	8,000
2005	22.23	98,000	38	79,000	39	19,000
2006	20.93	107,000	44	78,000	41	29,000
2007	7.11	93,000	44	88,000	42	27,000
2008	15.18	83,000	43	65,000	42	18,000
2009	10.91	76,000	44	65,000	43	11,000
2010	20.07	80,000	48	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	5.07	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	10.15	55,000	42	55,000	38	2,000
2019	23.77	57,000	42	40,000	42	17,000
2020	16.85	61,000	39	38,000	41	23,000
2021	6.48	34,000	41	38,000	39	(4,000)
2022	10.75	42,000	37	38,000	38	6,000
2023	29.2*	54,000	35	—	—	—

— Insufficient Evaluation
*: Preliminary value

GWI 1975 - 2023

GWI

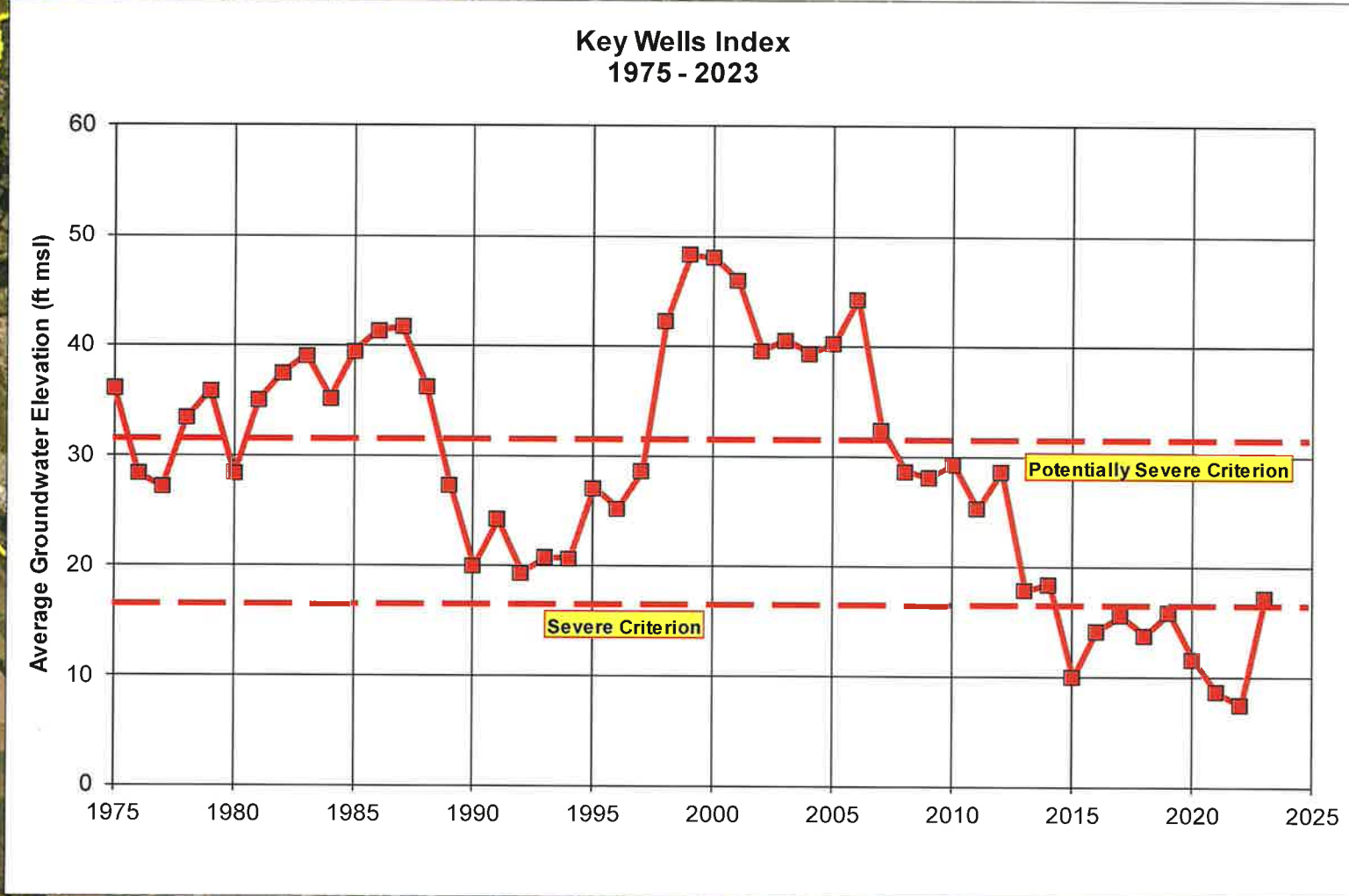
Spring and Fall
Groundwater Index
(GWI)

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	17.25	59,000	54	51,000	54	8,000
1976	15.48	57,000	42	72,000	42	15,000
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			

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			

- Insufficient for evaluation
* Preliminary value

2023 Key Wells Index





2023 Key Wells Index Statement

Nipomo Mesa Management Area 2023 Key Wells Index

Severe Water Shortage Conditions

The Nipomo Mesa Management Area Technical Group ("NMMA TG") established groundwater level and groundwater quality criteria to track overall basin conditions within the NMMA. The criteria include the Key Wells Index ("KWI"), which combines groundwater level data from eight selected wells distributed throughout the inland portion of the Management Area. Water level measurements are made in NMMA groundwater wells representing the basin as a whole and are used to compute the KWI during the spring of each year.

The TG uses the KWI to help identify trends in basin groundwater levels and has compiled KWI data for the period from 1975 to the present. The NMMA KWI has changed over time and in the last eleven years is lower than at any other time in the record (Figure 1).

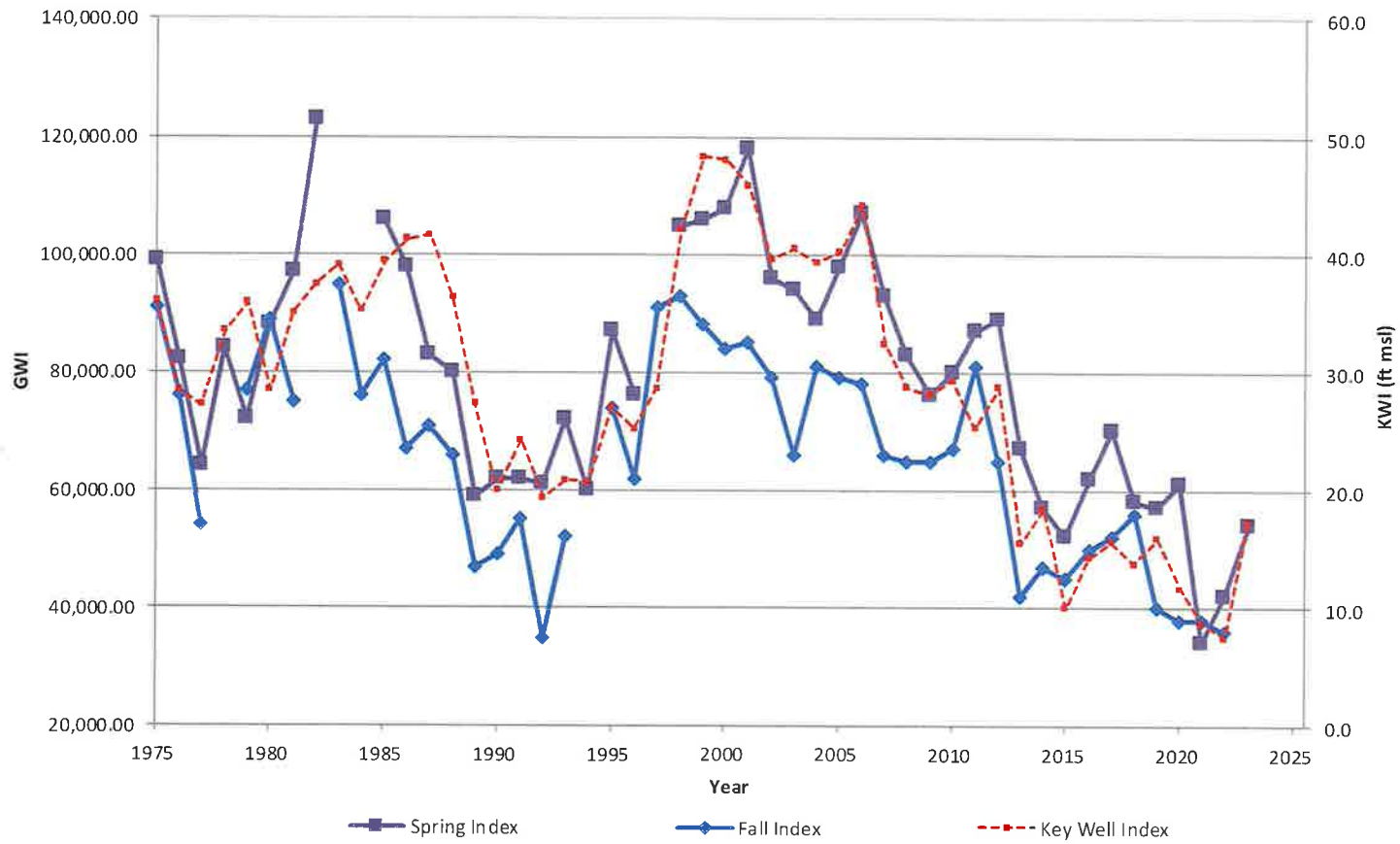
One of the NMMA TG's court-required duties is to determine when conditions of "Potentially Severe Water Shortage Conditions" or "Severe Water Shortage Conditions" have been reached. The 2023 KWI value of 17.3 feet mean sea level (ft msl) is a significant increase from the previous year (7.5 ft msl corrected value). The 2023 KWI value is not sufficient to meet the criteria set forth in the NMMA Water Shortage Conditions and Response Plan (April 22, 2009). Severe Water Shortage Conditions remain in place. This is the ninth consecutive year the KWI value is in Severe Water Shortage Conditions, which signifies a Stage IV NMMA Water Shortage Response.

The Water Shortage Conditions and Response Plan requires that the Severe Water Shortage Conditions remain in effect until groundwater elevations as indicated by the Key Wells Index are 10 ft above the Severe criterion (which calculates to 26.5 feet msl). Alternatively, the NMMA Technical Group may determine that the Severe Water Shortage Condition no longer exists when the Key Well Index is above the Severe criterion of 16.5 ft msl and conditions warrant this conclusion.

Details of the KWI as well as the established responses to Potentially Severe Water Shortage Conditions and Severe Water Shortage Conditions, are explained in the NMMA TG's annual report of groundwater conditions. The report's appendices include a Water Shortage Conditions and Response Plan (Appendix B), and the NMMA Well Management Plan and the NMMA Water Shortage Response Stages (Appendix C). The NMMA annual report for calendar year 2022, including appendices, is available as a digital document at <http://ncsd.ca.gov/resources/reports-by-subject/nmma>.

GWI and KWI

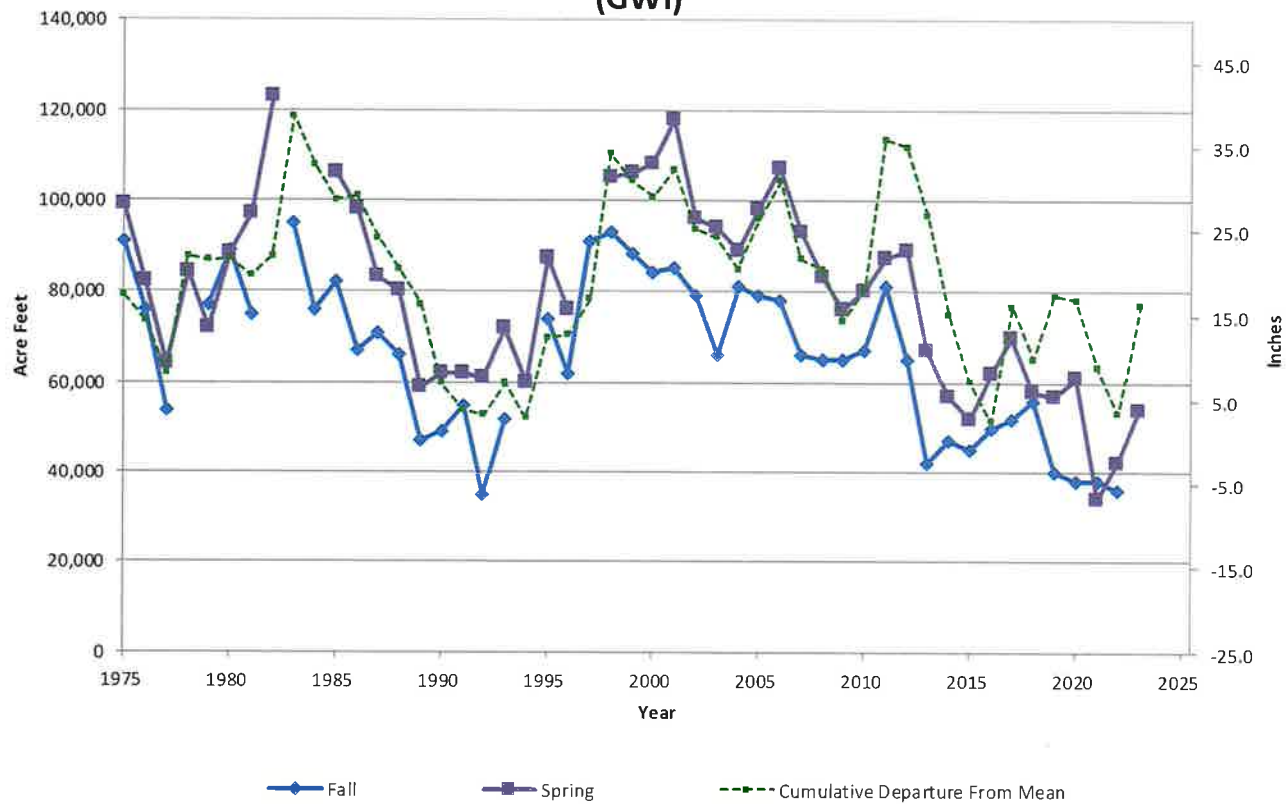
Spring and Fall Groundwater Index (GWI)



GWI - CDMR

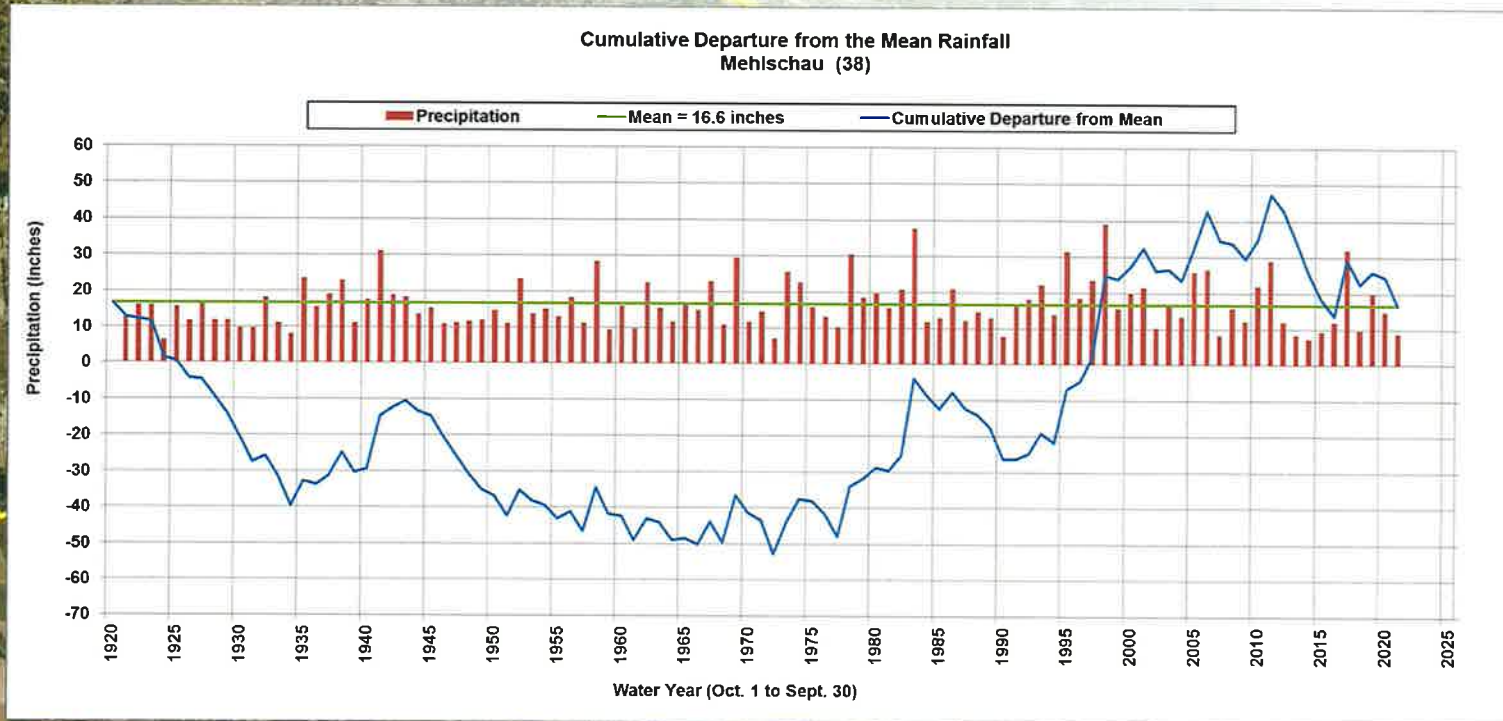
GWI Rainfall

Spring and Fall
Groundwater Index
(GWI)

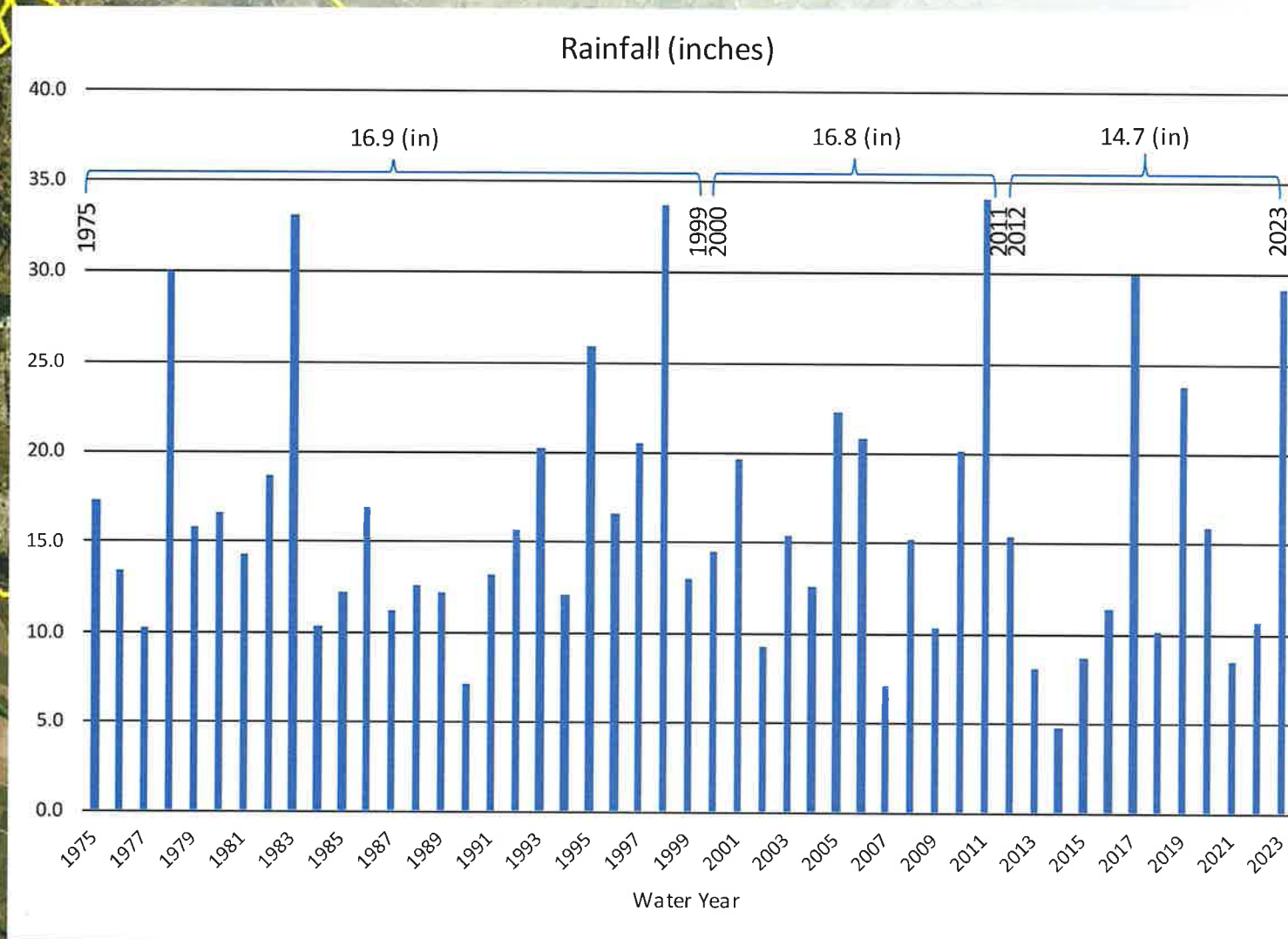


Rainfall @ Mehlschau (#38) 1921 - 2021

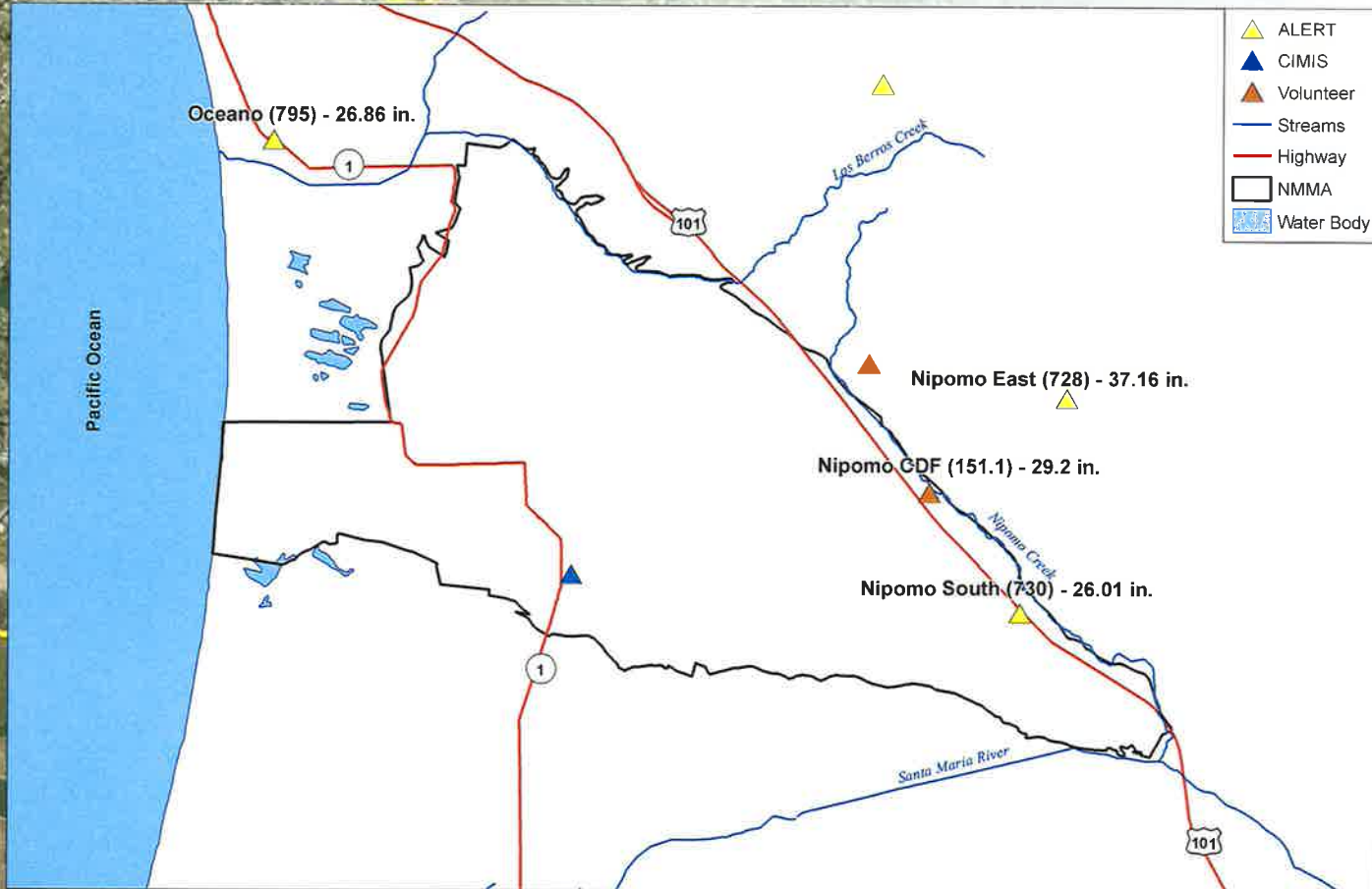
Longest Rainfall Record



Rainfall Record



To May of 2023 WY Rainfall Totals



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 To May of Water Year 2023 Rainfall Totals

0 0.5 1 2 3 4
Miles

DATE: 07/06/2023 BY: B. Newton

An aerial photograph of a rural landscape, possibly a valley or a river valley, showing a mix of green fields, brownish soil, and some buildings. A prominent yellow line traces a boundary across the landscape, starting from the left edge, curving around a hillside, and then extending towards the right. A solid blue horizontal line is drawn across the upper portion of the image. The text "QUESTIONS?" is centered in the middle of the image.

QUESTIONS?

JULY 12, 2023

ITEM C-1

ATTACHMENT B

TO: Mario Iglesias, GM NCSD

RE: Spring 2023 GWI

DATE: July 12, 2023

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1 Nipomo Mesa through the Nipomo Supplemental Water Project (NSWP) is also a contributing
2 factor to the GWI. An additional benefit of new NSWP water brought to the Nipomo Mesa is
3 that the return flow increases the amount of groundwater available for future production.
4 Consumptive use of groundwater is relatively constant from year to year, and when drought
5 occurs (13.33 inches average rainfall from 2012 to 2022) the impacts to groundwater elevations
6 can be extreme.

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

10 **METHODOLOGY**

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

18 **Groundwater Surface Elevation Measurements**

19 Groundwater surface elevation data were obtained from SLO DPW, NCSD, USGS, and
20 Woodlands. SLO DPW measures GSE in monitoring wells during the spring (April) and the fall
21 (October) of each year. Woodlands and NCSD measures GSE in their monitoring wells
22 monthly. For the years 1975 to 1999, available representative GSE data were used to compute
23 GWI. For the years 2000 to 2017, only GSE data from the same 45 wells were used to compute
24 GWI.

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

TO: Mario Iglesias, GM NCSD

RE: Spring 2023 GWI

DATE: July 12, 2023

Page 3

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: Mario Iglesias, GM NCSD
 RE: Spring 2023 GWI
 DATE: July 12, 2023
 Page 4

**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			

—: Insufficient for evaluation

*: Preliminary value

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

TO: Mario Iglesias, GM NCSD
RE: Spring 2023 GWI
DATE: July 12, 2023
Page 5

Spring and Fall Groundwater Index (GWI)

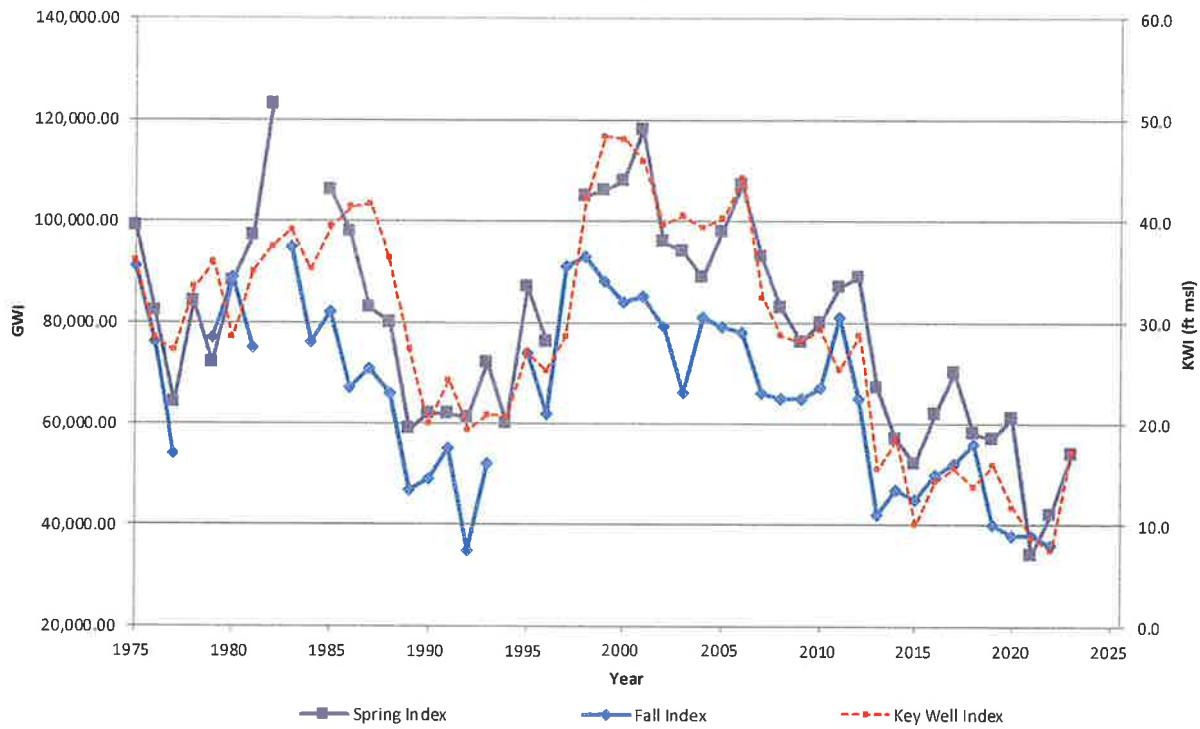
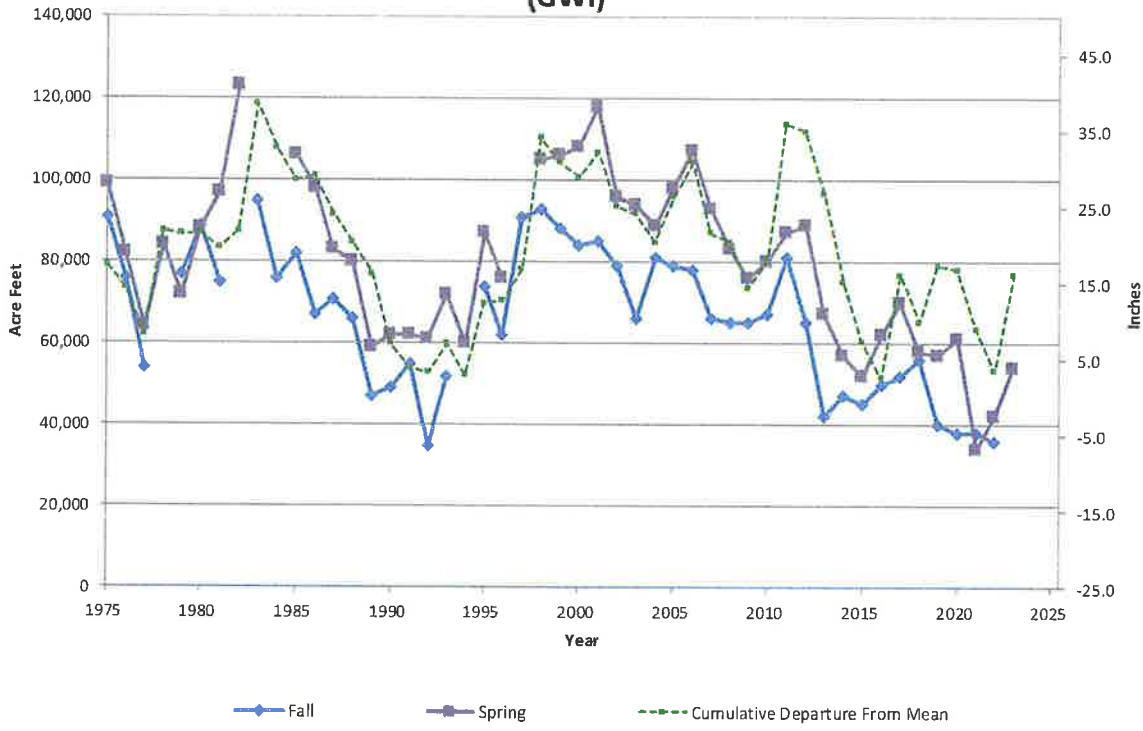


Figure 1: Spring and Fall GWI, and KWI (Spring only) from 1975 to present.

1
2
3


TO: Mario Iglesias, GM NCSD
 RE: Spring 2023 GWI
 DATE: July 12, 2023
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Spring and Fall Groundwater Index (GWI)



1
2
3

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

TO: BOARD OF DIRECTORS
REVIEWED: MARIO IGLESIAS
GENERAL MANAGER 
FROM: PETER SEVCIK
DIR. OF ENGINEERING AND OPERATIONS
DATE: July 7, 2023

AGENDA ITEM
C-2
JULY 12, 2023

QUARTERLY DISTRICT ENGINEER'S REPORT TO THE BOARD

ITEM

Engineering and Operations update for April 2023 through June 2023. [RECOMMEND RECEIVE AND FILE]

BACKGROUND

Acting District Engineer, Elizabeth Villanueva will overview this update [Attachment A] and discuss District projects for the April 2023 through June 2023 period.

RECOMMENDATION

Staff recommends that your Honorable Board receive the update.

ATTACHMENTS

- A. Engineering and Operations Update for April 2023 through June 2023.

JULY 12, 2023

ITEM C-2

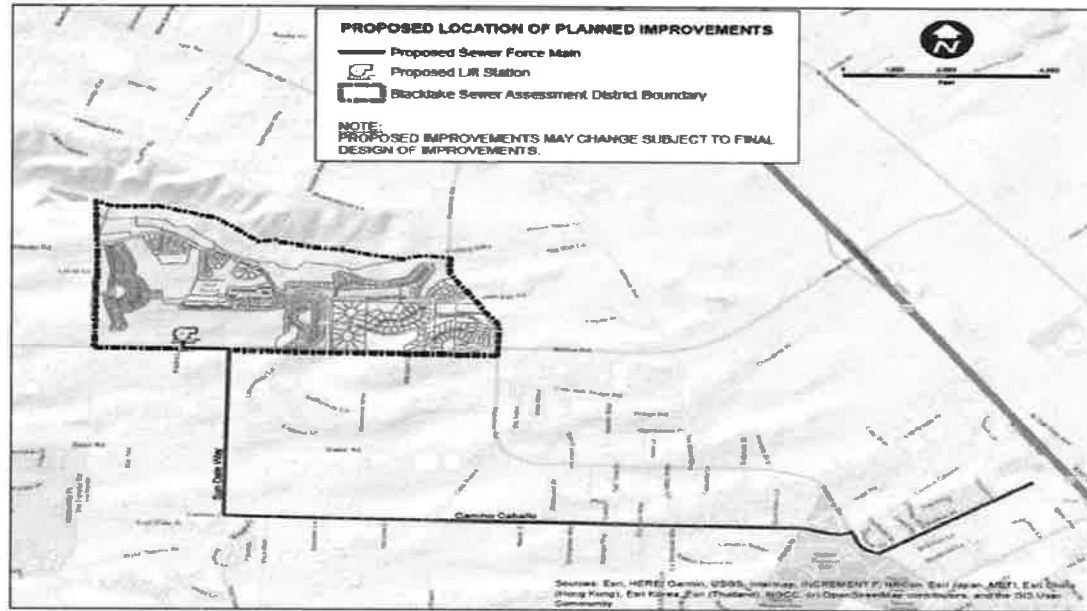
ATTACHMENT A

Engineering and Operations Update – April 2023 to June 2023



Peter V. Sevcik, PE
Director of Engineering and Operations
Nipomo Community Services District
July 12, 2023

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

- Blacklake WRF permitting in progress
 - Submitted application to RWQCB in 5/2022 to enroll facility in general order for facilities with flows less than 100,000 gallons per day in order to minimize compliance costs for existing facility
 - RWQCB issued new permit on 5/31/2023 that was effective 6/1/2023
 - Anticipate to cancel new permit once Blacklake WRF is decommissioned
- Southland WWTF permitting in progress
 - 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 Status**
 - Force main design completed and construction underway
 - Final lift station plans and specifications underway and pending completion of permitting process
 - Lift station contractor prequalification pending completion of permitting process
- **Environmental Status**
 - Mitigated Negative Declaration (MND) complete - CEQA
 - 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	9/2023
Construction Permitting Completion	12/2021	10/2022	9/2023
Board Authorization to Pre-Qualify	1/2022	7/2022	9/2023
Board Authorization to Bid	3/2022	10/2022	10/2023
Board Construction Contract Award	6/2022	1/2023	12/2023
Construction Completion	3/2024	1/2024	3/2025

Blacklake Sewer System Consolidation Project

Item Description	Project Budget Costs	Actual Costs to Date	% Budget Actual Costs to Date
1 Blacklake Lift Station	\$ 605,550	\$ -	0.0%
2 Force Main	\$ 5,162,350	\$ 298,463	5.8%
3 WRF Demolition	\$ 915,400	\$ -	0.0%
4 Construction Subtotal	\$ 6,683,300	\$ 298,463	4.5%
5 Permitting (CEQA)	\$ 116,240	\$ 68,538	59.0%
6 Engineering Design	\$ 871,800	\$ 619,111	71.0%
7 Construction Management and Inspection	\$ 871,800	\$ 34,512	4.0%
8 CEQA/Design/CM Subtotal	\$ 1,859,840	\$ 722,161	38.8%
9 Contingency	\$ 1,743,600	\$ -	0.0%
10 Total Project Cost	\$10,286,740	\$ 1,020,624	9.9%
Status Report Date 6/30/2023			



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
 - Notice to Proceed issued – 5/9/2023
 - Tentative Contract Completion – 1/4/2024
 - Contract cost - \$4,705,802
 - Completed to date - \$298,463

Projects in Construction

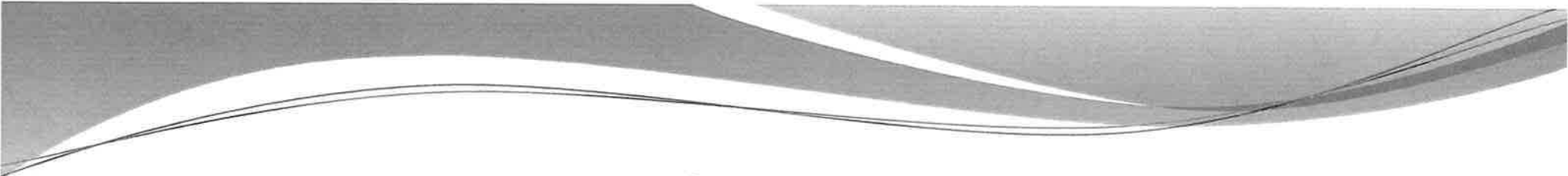
- Branch Street Watermain Replacement Project
 - Scope includes 1560 linear feet of 8 inch diameter watermain, 3 fire hydrants, abandonment of 6 inch diameter watermain located in an alley, new water services, and reconnection of existing water services
 - Notice to Proceed issued – 4/25/2023
 - Tentative Contract Completion – 10/22/2023
 - Contract cost - \$793,864
 - Completed to Date - \$29,965

Projects in Construction

- Sundale Well Nitrate Analyzer
 - Scope includes installation of on-line nitrate analyzer and modification of controls as well as SCADA
 - Contract cost - \$24,340
 - Equipment startup scheduled - 7/2023
 - 8 hour pump test – To be scheduled once analyzer is on-line

Projects in Construction

- District Office Generator
 - Generator and automatic transfer switch received
 - Concrete pad poured in-house
 - Proposal for electrical work pending



Projects in Bid Stage

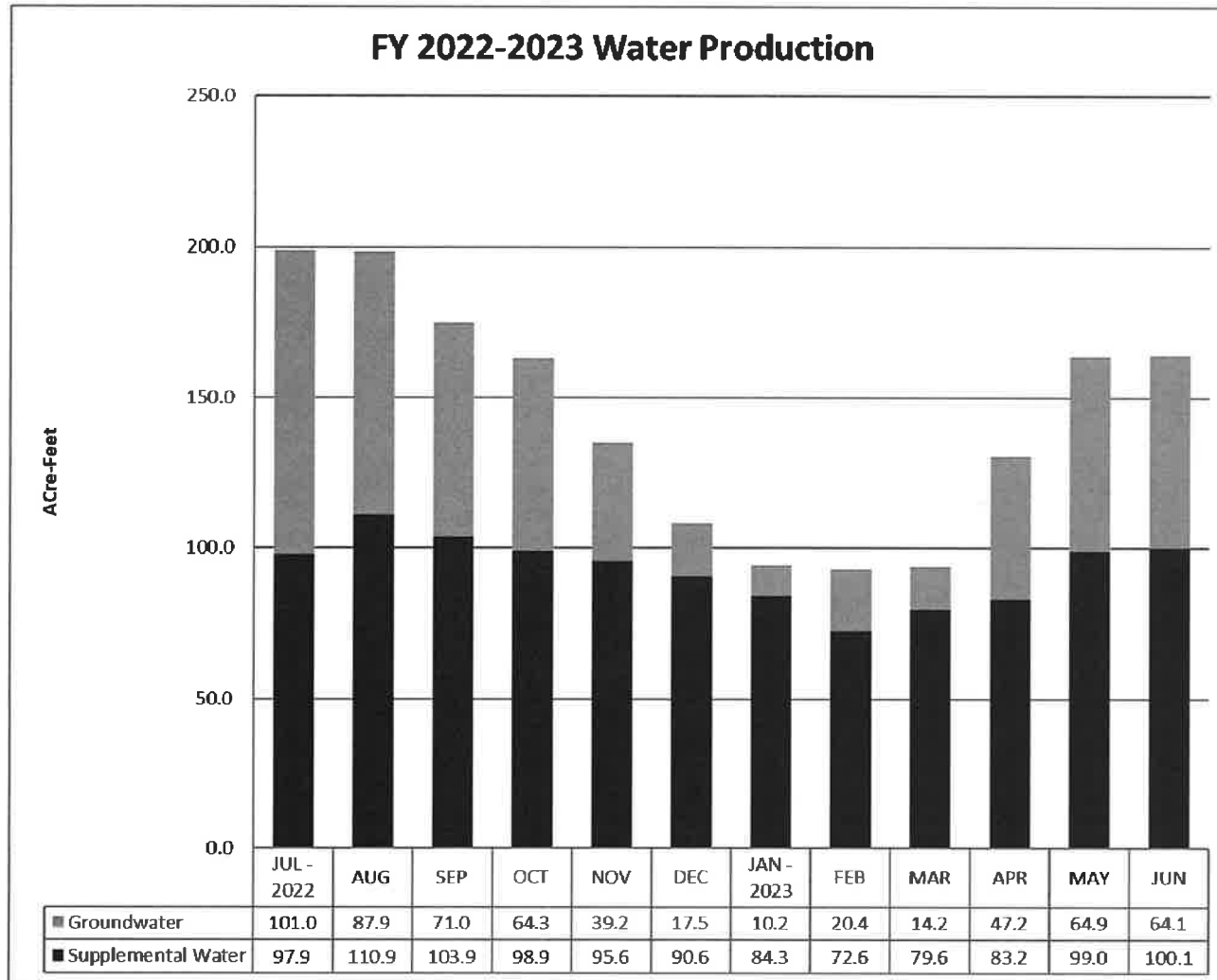
- Southland WWTF Influent Pump Station Repair
 - Board Authorization to Bid – 4/2023
 - Bids opened – 6/2023
 - Currently evaluating bids



Projects in Design

- Frontage Road Trunk Sewer Replacement
 - 60% design review in progress
- Woodgreen Lift Station Replacement
 - Final design in progress
 - Plan to bid with Blacklake Sewer System Consolidation Project Lift Station
- Foothill Tank Land Acquisition
 - Land Acquisition in progress
- Supplemental Water Project Interconnects
 - Final design in progress

Operations – Water System



Supplemental Water	1117 AF
Groundwater	602 AF
FY 22-23 Total Production To Date	1719 AF



Operations – Water System

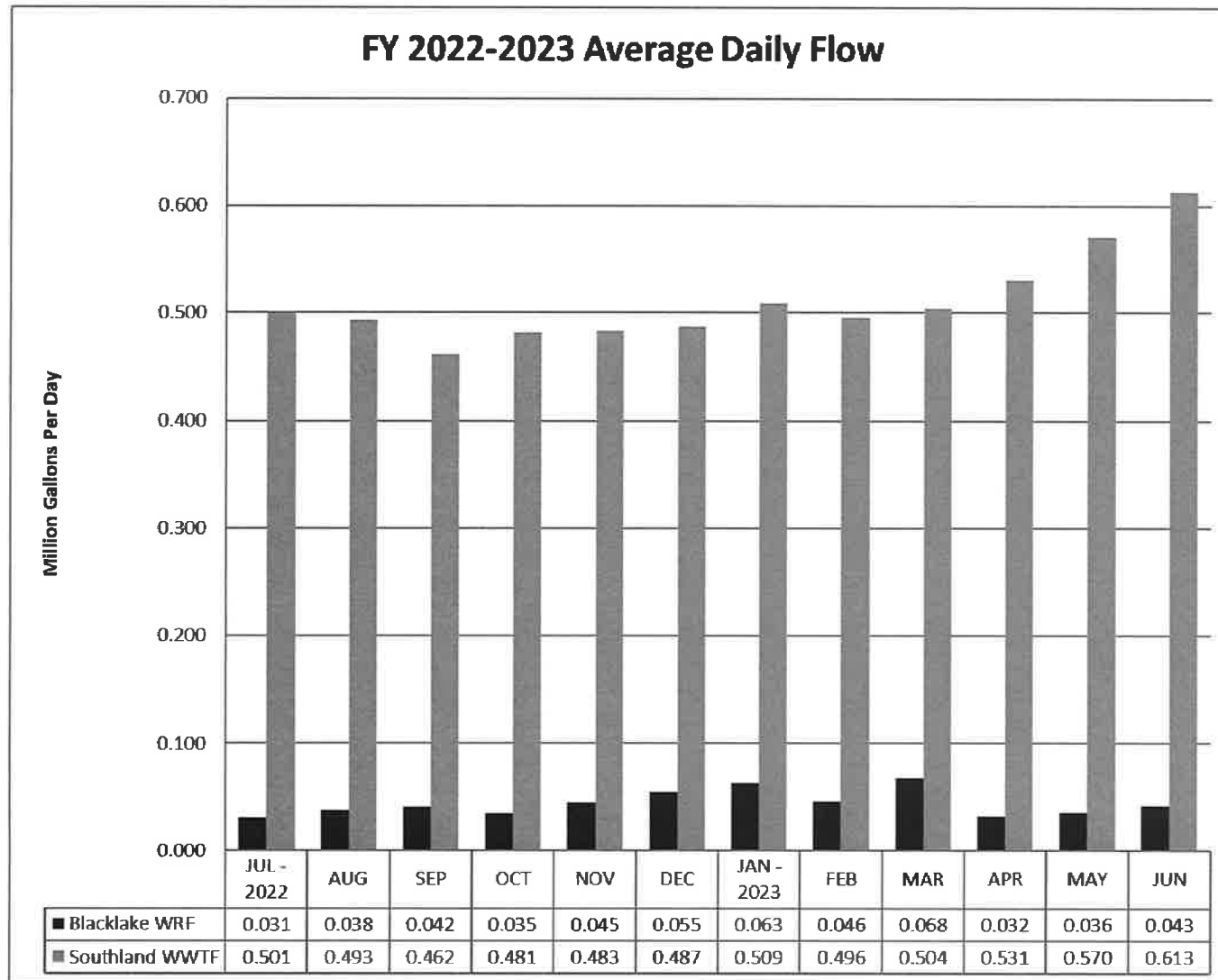
- **Regulatory**

- State Water Resources Control Board Division of Drinking Water
 - Submitted routine monthly coliform, quarterly raw water coliform, quarterly nitrate, quarterly disinfection byproducts
 - Submitted 2022 Annual Water System Report
 - Prepared 2022 Consumer Confidence Report

- **Other Water Operations**

- Rebuilt all pressure reducing station control valves for Maria Vista Pressure Zone, Blacklake Pressure Zone and Westgate Pressure Zone

Operations – Wastewater



Blacklake WRF	16.2 MG
Southland WWTF	186.5 MG
FY 22-23 Total Wastewater Flow Treated To Date	202.7 MG or 622 AF



Operations – Wastewater System

- **Regulatory**

- State Water Resources Control Board
 - Routine monthly and quarterly reports submitted
 - Received new permit for the Blacklake WRF and developing compliance plan

- **Other Wastewater Operations**

- Changed out Blower Motor #1 at Southland WWTF
- Recoated 8 manholes on Grande Avenue
- Raised 3 manholes in high traffic areas on Tefft and Division
- Repaired flow meter bracket at Southland WWTF

Engineering and Operations

Questions