

LOS OSOS GROUNDWATER BASIN, BASIN MANAGEMENT COMMITTEE

NOTICE OF MEETING

NOTICE IS HEREBY GIVEN that the Los Osos Groundwater Basin, Basin Management Committee Board of Directors will hold a **Regular Board Meeting at 1:30 P.M. on Wednesday, August 21, 2024** at the **Los Osos Community Services District Boardroom**, located at 2122 9th Street, Suite 106, Los Osos, CA 93402. Members of the public may participate in this meeting in person or via teleconference and/or electronically.

For quick access, go to <https://us04web.zoom.us/j/778762508>

(This link will help connect both your browser and telephone to the call)

If not using a computer, dial 1 (669) 900-6833 or 1 (346) 248-779 and enter **778 762 508**

All persons desiring to speak during any Public Comment can submit a comment by:

- Email at danheimel@ConfluenceES.com by 5:00 PM on the day prior to the Committee meeting.
- Teleconference by phone at 1 (669) 900-6833 and enter **778 762 508**
- Teleconference by phone at 1 (346) 248-7799 and enter **778 762 508**
- Teleconference meeting at <https://us04web.zoom.us/j/778762508>
- Mail by 5:00 PM on the day prior to the Committee meeting to:

Attn: Dan HeimeI (Basin Management Committee)
2122 9th St.
Suite 110
Los Osos, CA 93402

Los Osos Basin Management Committee Website

The BMC has a new website! Go to <https://www.losososbmc.org/> to view agendas, agenda packets, meeting recordings, important documents, and BMC news. Click "join our mailing list" in the lower right-hand corner of the page to receive email updates and meeting notifications.

Directors: Agenda items are numbered for identification purposes only and may not necessarily be considered in numerical order.

NOTE: The Basin Management Committee reserves the right to limit each speaker to three (3) minutes per subject or topic. In compliance with the Americans with Disabilities Act, all possible accommodations will be made for individuals with disabilities, so they may participate in the meeting. Persons who require accommodation for any audio, visual or other disability in order to participate in the meeting of the BMC are encouraged to request such accommodation 48 hours in advance of the meeting from Dan HeimeI at danheimel@ConfluenceES.com.

BASIN MANAGEMENT COMMITTEE BOARD OF DIRECTORS AGENDA

1. CALL TO ORDER
2. ROLL CALL
3. PLEDGE OF ALLEGIANCE
4. BOARD MEMBER COMMENTS

Board members may make brief comments, provide project status updates, or communicate with other directors, staff, or the public regarding non-agenda topics.

5. SPECIAL PRESENTATION

- a. **Presentation of Marshall Ochylski’s Service Recognition Resolution.**
- b. **Presentation by County Planning: Los Osos Growth Rate Implementation Approach.**

6. CONSENT AGENDA

The following routine items listed below are scheduled for consideration as a group. Each item is recommended for approval unless noted and may be approved in their entirety by one motion. Any member of the public who wishes to comment on any Consent Agenda item may do so at this time. Consent items generally require no discussion. However, any Director may request that any item be withdrawn from the Consent Agenda and moved to the “Action Items” portion of the Agenda to permit discussion or to change the recommended course of action. The Board may approve the remainder of the Consent Agenda on one motion.

- a. **2024 Financial Reports**
- b. **Approval of Minutes from June 12th, 2024 Special BMC Meeting**

7. PUBLIC COMMENTS ON ITEMS NOT APPEARING ON THE AGENDA

The Basin Management Committee will consider public comments on items not appearing on the agenda and within the subject matter jurisdiction of the Basin Management Committee. The Basin Management Committee cannot enter into a detailed discussion or take any action on any items presented during public comments at this time. Such items may only be referred to the Executive Director or other staff for administrative action or scheduled on a subsequent agenda for discussion. Persons wishing to speak on specific agenda items should do so at the time specified for those items. The presiding Chair shall limit public comments to three minutes.

8. EXECUTIVE DIRECTOR’S REPORT

- a. **Approval of switching from SLOSPAN to YouTube for meeting recording hosting.**

9. ACTION ITEMS

- a. **Draft Spring 2024 Los Osos Basin Lower Aquifer Water Quality Monitoring Results and Updated Chloride Metric**

Recommendation: Receive an update on the Draft Spring 2024 Los Osos Basin Lower Aquifer Water Quality Monitoring Results and Updated Chloride Metric.

- b. **Hydrogeologic Services for Well Modifications to Wells LA 14 and LA 16 Consultant Recommendation**

Recommendation: Receive recommendation and approve the selection of Cleath-Harris Geologists to provide Hydrogeologic and Construction Monitoring consulting services for the modifications to Wells LA 14 and LA 16.

10. ADJOURNMENT

LOS OSOS BASIN MANAGEMENT COMMITTEE
LOS OSOS, STATE OF CALIFORNIA

RESOLUTION NO. 2024-01

August 21, 2024

**RESOLUTION RECOGNIZING AND COMMENDING
MARSHALL OCHILSKI FOR HIS EXEMPLARY PUBLIC
SERVICE TO THE LOS OSOS BASIN MANAGEMENT
COMMITTEE AND THE COMMUNITY OF LOS OSOS**

The following resolution is hereby offered and read:

WHEREAS, Marshall E. Ochylski began his legal career by graduating from Santa Barbara College of Law and being admitted into the State Bar of California in 1977. He created Ochylski Law Group that same year, where he has done work in real estate, environmental law, construction, and business law. In addition to his work at his law group, Marshall taught as an assistant professor at our California Polytechnic University from 1978-1983, after teaching at Purdue University for several years before; and

WHEREAS, Marshall E. Ochylski is currently serving a four-year term as the Los Osos Community Service District (District) Board of Directors and is the President for calendar year 2024. In this role, Marshall provides the leadership required for the District to deliver essential services to the community which includes water and drainage services, parks and recreation, street lighting, and emergency services, and bridges communication between the community and other governmental organizations for Los Osos; and

WHEREAS, in fact, Marshall E Ochylski helped to bolster the managerial and financial capabilities of the District to meet the challenges required to move the basin toward sustainability; and

WHEREAS, Marshall E. Ochylski is a member of the Local Agency Formation Commissions (LAFCO). He forms good relations with the public by always being kind and approachable, as well as with his well thought-out ideas and decisions; and

WHEREAS, Marshall E. Ochylski serves on the Executive Committee and represents the Los Osos Community Services District on the Morro Bay National Estuary Program. He has served on this committee for the past 14 years, where he has assisted in overseeing and developing the important environmental protection programs for the bay; and

WHEREAS, Marshall E. Ochylski has served on the Board of the Los Osos-Baywood Park Chamber of Commerce in multiple leadership roles. In these roles, he helped facilitate the economic well-being of the community; and

WHEREAS, Marshall E. Ochylski has served as the president of the SLO County chapter of California Special Districts Association (CSDA), where he furthered the association's goals of providing the members with the necessary resources to improve their local community services; and

WHEREAS, Marshall E. Ochylski was the original Chairperson for Los Osos Basin Management Committee and held that role from 2015 to 2023; and

WHEREAS, in fact, Marshall E Ochylski provided critical leadership and countless hours of input and work in the formational years of the BMC; and

WHEREAS, in fact, Marshall E. Ochylski's work ethic is so strong that in the eight years of public service to the Basin Management Committee he sent more emails after midnight than he did during the working hours of the day; and

WHEREAS, in fact, Marshall E. Ochylski was instrumental in the development of the Basin Plan, including navigating the different interests among the parties while moving toward a solution.

NOW THEREFORE, BE IT RESOLVED by the Basin Management Committee Board of Directors, Los Osos, State of California, that Marshall E. Ochylski, be and hereby is commended for his 8 years of dedication to the Basin Management Committee's mission, and is wished the best of health, happiness, and good fortune upon his retirement from the Basin Management Committee and beyond.

Upon motion of Director _____, seconded by
Director _____, and on the following roll call vote, to-wit:

AYES:

NOES:

ABSENT:

ABSTAINING:

The foregoing resolution is hereby adopted on the 21st day of August, 2024

Chairperson of the Basin Management
Committee
Los Osos, State of California

ATTEST:

DANIEL HEIMEL
Ex-Officio Basin Management Committee
Executive Director

By: _____
Executive Director

APPROVED AS TO FORM AND LEGAL EFFECT:

By: _____
CRAIG A. STEELE
Basin Management Committee Counsel

Dated: August 21st, 2024

TO: Los Osos Basin Management Committee

FROM: Daniel Heimel, Executive Director

DATE: August 21st, 2024

SUBJECT: Item 6 – Approval of Financial Reports and/or Meeting Minutes

Recommendations

BMC Staff recommends that the BMC review and consider approval of Financial Reports and/or Meeting Minutes or provide alternate direction to Staff.

Discussion

BMC Staff prepared summary Financial Reports and Meeting Minutes from previous BMC Meetings for the BMC's review and approval consideration (see Attachments).

Attachment 2: Invoice Register for Los Osos BMC for Calendar Year 2024

Vendor	Invoice No.	Amount	Month of Service	Description	Budget Item	Date Executive Director Approved	Date BMC Chairperson Approved	Date BMC Approved
CHG	20231203	\$2,335.00	Dec-23	Annual Report Preparations	8	Feb-24		
Streamline	9877A921-0001	\$250.00	Dec-23	Website Hosting	2	Feb-24		
Streamline	9877A921-0002	\$1,440.00	Jan-Dec 2024	Website Hosting	2	Feb-24		
CHG	20240106	\$10,490.00	Jan-24	Annual Report Preparations	8	Feb-24		
Deluxe	9003939794	\$357.99	Jan-24	BMC Bank Account Checks	3	Feb-24		
ConfluenceES	1146	\$9,436.25	Jan-24	Executive Director Services	1		Feb-24	
Stilts CPA	2024-01	\$1,225.00	Jan-24	Accounting Services	3	Mar-24		
CHG	20240206	\$22,025.00	Feb-24	Annual Report Preparations	8	Mar-24		
CHG	20240232	\$2,684.00	Feb-24	Groundwater Monitoring	7	Mar-24		
Stilts CPA	2024-02	\$787.50	Feb-24	Accounting Services	3	Mar-24		
ConfluenceES	1148	\$4,440.00	Feb-24	Executive Director Services	1		Mar-24	
CHG	20240306	\$25,500.00	Mar-24	Annual Report Preparations	8	Apr-24		
CHG	20240307	\$3,599.40	Mar-24	Groundwater Monitoring	7	Apr-24		
Stilts CPA	2024-03	\$700.00	Mar-24	Accounting Services	3	Apr-24		
ConfluenceES	1153	\$5,706.25	Mar-24	Executive Director Services	1		Apr-24	
RWG Law	246457	\$385.00	Jan-24	BMC Legal Counsel	4	Apr-24		
RWG Law	246963	\$70.00	Feb-24	BMC Legal Counsel	4	Apr-24		
AGP	9426	\$400.00	Jan/Mar 24	Meeting expenses: Audio and video services	5	Apr-24		
CHG	20240411	\$7,400.00	Apr-24	Annual Report Preparations	8	May-24		
CHG	20240412	\$22,789.20	Apr-24	Groundwater Monitoring	7	May-24		
Stilts CPA	2024-04	\$306.25	Apr-24	Accounting Services	3	May-24		
ConfluenceES	1161	\$8,063.75	Apr-24	Executive Director Services	1		May-24	
AGP	9452	\$200.00	Apr-24	Meeting expenses: Audio and video services	5	Jun-24		
CHG	20240509	\$247.50	May-24	Annual Report Preparations	8	Jun-24		
AGP	9479	\$200.00	May-24	Meeting expenses: Audio and video services	5	Jun-24		
Stilts CPA	2024-05	\$481.25	May-24	Accounting Services	3	Jun-24		
CHG	20240510	\$2,865.80	May-24	Technical Support Services	6			Jun-24
ConfluenceES	1167	\$9,946.25	May-24	Executive Director Services	1		Jun-24	
CHG	20240608	\$2,085.00	Jun-24	Technical Support Services	6	Jul-24		
Stilts CPA	2024-06	\$262.50	Jun-24	Accounting Services	3	Jul-24		
ConfluenceES	1178	\$12,750.00	Jun-24	Executive Director Services	1		Jul-24	
RWG Law	247889	\$735.00	Apr-24	BMC Legal Counsel	4	Aug-24		
Stilts CPA	2024-07	\$218.75	Jul-24	Accounting Services	3	Aug-24		
	2024 Total	\$160,382.64						To be approved

Los Osos Basin Management Committee

Statement of Revenues and Expenditures

100 - BMC

From 6/1/2024 Through 6/30/2024

	Current Period Actual	Current Year Actual	Total Budget \$ - Original	Total Budget \$ Variance - Original	Percent Total Budget Remaining - Original
Operating Revenue					
Contributions					
4010	0.00	134,459.00	134,459.00	0.00	0.00%
4020	0.00	134,459.00	134,459.00	0.00	0.00%
4030	0.00	70,768.00	70,768.00	0.00	0.00%
4040	0.00	14,154.00	14,154.00	0.00	0.00%
	<u>0.00</u>	<u>353,840.00</u>	<u>353,840.00</u>	<u>0.00</u>	<u>0.00%</u>
	0.00	353,840.00	353,840.00	0.00	0.00%
Total Revenue					
	<u>0.00</u>	<u>353,840.00</u>	<u>353,840.00</u>	<u>0.00</u>	<u>0.00%</u>
Expenditures					
Program Expenses					
5010	0.00	37,592.50	75,000.00	37,407.50	49.88%
5020	0.00	1,690.00	1,690.00	0.00	0.00%
5030	0.00	2,985.49	6,300.00	3,314.51	52.61%
5040	0.00	455.00	20,000.00	19,545.00	97.72%
5050	0.00	800.00	2,000.00	1,200.00	60.00%
5060	0.00	2,865.80	15,000.00	12,134.20	80.89%
5070	0.00	29,072.60	64,000.00	34,927.40	54.57%
5080	0.00	65,662.50	68,000.00	2,337.50	3.44%
5090	0.00	0.00	15,000.00	15,000.00	100.00%
6000	0.00	0.00	70,000.00	70,000.00	100.00%
	<u>0.00</u>	<u>141,123.89</u>	<u>336,990.00</u>	<u>195,866.11</u>	<u>58.12%</u>
	0.00	141,123.89	336,990.00	195,866.11	58.12%
Total Expenditures					
	<u>0.00</u>	<u>141,123.89</u>	<u>336,990.00</u>	<u>195,866.11</u>	<u>58.12%</u>
Net Revenue Over Expenditures					
	<u>0.00</u>	<u>212,716.11</u>	<u>16,850.00</u>	<u>195,866.11</u>	<u>1,162.41%</u>

Los Osos Basin Management Committee

Statement of Revenues and Expenditures

100 - BMC

From 7/1/2024 Through 7/31/2024

	<u>Current Period Actual</u>	<u>Current Year Actual</u>	<u>Total Budget \$ - Original</u>	<u>Total Budget \$ Variance - Original</u>	<u>Percent Total Budget Remaining - Original</u>
Operating Revenue					
Contributions					
4010	0.00	134,459.00	134,459.00	0.00	0.00%
4020	0.00	134,459.00	134,459.00	0.00	0.00%
4030	0.00	70,768.00	70,768.00	0.00	0.00%
4040	0.00	14,154.00	14,154.00	0.00	0.00%
	<u>0.00</u>	<u>353,840.00</u>	<u>353,840.00</u>	<u>0.00</u>	<u>0.00%</u>
	0.00	353,840.00	353,840.00	0.00	0.00%
Total Operating Revenue					
	<u>0.00</u>	<u>353,840.00</u>	<u>353,840.00</u>	<u>0.00</u>	<u>0.00%</u>
	0.00	353,840.00	353,840.00	0.00	0.00%
Total Revenue					
	<u>0.00</u>	<u>353,840.00</u>	<u>353,840.00</u>	<u>0.00</u>	<u>0.00%</u>
Expenditures					
Program Expenses					
5010	0.00	50,342.50	75,000.00	24,657.50	32.88%
5020	0.00	1,690.00	1,690.00	0.00	0.00%
5030	0.00	3,247.99	6,300.00	3,052.01	48.44%
5040	0.00	455.00	20,000.00	19,545.00	97.72%
5050	0.00	800.00	2,000.00	1,200.00	60.00%
	0.00	4,950.80	15,000.00	10,049.20	66.99%
5070	0.00	29,072.60	64,000.00	34,927.40	54.57%
5080	0.00	65,662.50	68,000.00	2,337.50	3.44%
5090	0.00	0.00	15,000.00	15,000.00	100.00%
6000	0.00	0.00	70,000.00	70,000.00	100.00%
	<u>0.00</u>	<u>156,221.39</u>	<u>336,990.00</u>	<u>180,768.61</u>	<u>53.64%</u>
	0.00	156,221.39	336,990.00	180,768.61	53.64%
Total Program Expenses					
	<u>0.00</u>	<u>156,221.39</u>	<u>336,990.00</u>	<u>180,768.61</u>	<u>53.64%</u>
Total Expenditures					
	<u>0.00</u>	<u>156,221.39</u>	<u>336,990.00</u>	<u>180,768.61</u>	<u>53.64%</u>
	0.00	156,221.39	336,990.00	180,768.61	53.64%
Net Revenue Over Expenditures					
	<u>0.00</u>	<u>197,618.61</u>	<u>16,850.00</u>	<u>180,768.61</u>	<u>1,072.81%</u>
	0.00	197,618.61	16,850.00	180,768.61	1,072.81%

Los Osos Basin Management Committee

Balance Sheet
As of 6/30/2024

		Current Period Balance
Assets		
Current Assets		
Cash & Cash Equivalents		
General Checking Account	1012	209,506.11
Total Cash & Cash Equivalents		209,506.11
Total Current Assets		209,506.11
Total Assets		209,506.11
Liabilities		
Short-term Liabilities		
Accounts Payable		
Vendor Payable (Control Account)	2000	0.00
Total Accounts Payable		0.00
Total Short-term Liabilities		0.00
Total Liabilities		0.00
Net Assets		
Current YTD Net Income		
REVENUES		353,840.00
EXPENDITURES		(141,123.89)
EQUITY		
Fund Balance	3200	(3,210.00)
Total EQUITY		(3,210.00)
Total Current YTD Net Income		209,506.11
Total Net Assets		209,506.11
Total Liabilities and Net Assets		209,506.11

Los Osos Basin Management Committee

Balance Sheet
As of 7/31/2024

		Current Period Balance
Assets		
Current Assets		
Cash & Cash Equivalents		
General Checking Account	1012	194,408.61
Total Cash & Cash Equivalents		194,408.61
Total Current Assets		194,408.61
Total Assets		194,408.61
Liabilities		
Short-term Liabilities		
Accounts Payable		
Vendor Payable (Control Account)	2000	0.00
Total Accounts Payable		0.00
Total Short-term Liabilities		0.00
Total Liabilities		0.00
Net Assets		
Current YTD Net Income		
REVENUES		353,840.00
EXPENDITURES		(156,221.39)
EQUITY		
Fund Balance	3200	(3,210.00)
Total EQUITY		(3,210.00)
Total Current YTD Net Income		194,408.61
Total Net Assets		194,408.61
Total Liabilities and Net Assets		194,408.61

Los Osos Basin Management Committee
Reconcile Cash Accounts

Summary

Cash Account: 1012 General Checking Account
Reconciliation ID: Bank Account Reconciliation 06282024
Reconciliation Date: 6/28/2024
Status: Locked

Bank Balance	209,506.11
Less Outstanding Checks/Vouchers	0.00
Plus Deposits in Transit	0.00
Plus or Minus Other Cash Items	0.00
Plus or Minus Suspense Items	<u>0.00</u>
Reconciled Bank Balance	209,506.11
Balance Per Books	<u>209,506.11</u>
Unreconciled Difference	<u><u>0.00</u></u>

Click the Next Page toolbar button to view details.

Los Osos Basin Management Committee
Reconcile Cash Accounts

Detail

Cash Account: 1012 General Checking Account
Reconciliation ID: Bank Account Reconciliation 06282024
Reconciliation Date: 6/28/2024
Status: Locked

Cleared Checks/Vouchers

<u>Document Number</u>	<u>Document Date</u>	<u>Document Description</u>	<u>Document Amount</u>	<u>Payee</u>
0012	5/22/2024	System Generated Check/Voucher	8,063.75	CONFLUENCE ENGINEERING SOLUTIONS, INC.
0013	5/22/2024	System Generated Check/Voucher	30,189.20	CLEATH-HARRIS GEOLOGISTS, INC.
0014	5/22/2024	System Generated Check/Voucher	306.25	Robert Stilts, CPA
0015	6/12/2024	System Generated Check/Voucher	400.00	AGP VIDEO, INC
0016	6/12/2024	System Generated Check/Voucher	9,946.25	CONFLUENCE ENGINEERING SOLUTIONS, INC.
0017	6/12/2024	System Generated Check/Voucher	3,113.30	CLEATH-HARRIS GEOLOGISTS, INC.
0018	6/12/2024	System Generated Check/Voucher	481.25	Robert Stilts, CPA
Cleared Checks/Vouchers			52,500.00	
			52,500.00	

Los Osos Basin Management Committee
Reconcile Cash Accounts

Summary

Cash Account: 1012 General Checking Account
Reconciliation ID: Bank Account Reconciliation 07312024
Reconciliation Date: 7/31/2024
Status: Locked

Bank Balance	209,506.11
Less Outstanding Checks/Vouchers	15,097.50
Plus Deposits in Transit	0.00
Plus or Minus Other Cash Items	0.00
Plus or Minus Suspense Items	<u>0.00</u>
Reconciled Bank Balance	194,408.61
Balance Per Books	<u>194,408.61</u>
Unreconciled Difference	<u><u>0.00</u></u>

Click the Next Page toolbar button to view details.

Los Osos Basin Management Committee
Reconcile Cash Accounts

Detail

Cash Account: 1012 General Checking Account
Reconciliation ID: Bank Account Reconciliation 07312024
Reconciliation Date: 7/31/2024
Status: Locked

Outstanding Checks/Vouchers

<u>Document Number</u>	<u>Document Date</u>	<u>Document Description</u>	<u>Document Amount</u>	<u>Payee</u>
0019	7/28/2024	System Generated Check/Voucher	12,750.00	CONFLUENCE ENGINEERING SOLUTIONS, INC.
0020	7/28/2024	System Generated Check/Voucher	2,085.00	CLEATH-HARRIS GEOLOGISTS, INC.
0021	7/28/2024	System Generated Check/Voucher	262.50	Robert Stilts, CPA
Outstanding Checks/Vouchers			<u>15,097.50</u>	

Los Osos Basin Management Committee

Check/Voucher Register - Warrant Register

1012 - General Checking Account

From 1/1/2024 Through 12/31/2024

Check Number	Vendor Name	Transaction Description	Document Date	Check Amount
0001	CONFLUENCE ENGINEERING SOLUTIONS, INC.	1/1/24-1/31/24 Executive Director Services	3/4/2024	9,436.25
0002	CLEATH-HARRIS GEOLOGISTS, INC.	1/1/24-1/31/24 2023 Annual Report	3/4/2024	10,490.00
	CLEATH-HARRIS GEOLOGISTS, INC.	12/1/23-12/31/23 2023 Annual Report	3/4/2024	2,335.00
0003	Robert Stilts, CPA	12/1/23-1/31/24 Accounting services	3/4/2024	1,225.00
0004	CONFLUENCE ENGINEERING SOLUTIONS, INC.	02/01/24-02/29/24 Executive Director Services	3/18/2024	4,440.00
0005	CLEATH-HARRIS GEOLOGISTS, INC.	02/01/24-02/29/24 2023 Annual Report	3/18/2024	22,025.00
	CLEATH-HARRIS GEOLOGISTS, INC.	02/01/24-02/29/24 2024 Groundwater Monitoring WECK Lab	3/18/2024	2,684.00
0006	Robert Stilts, CPA	02/01/24-02/29/24 Accounting Services	3/18/2024	787.50
0007	AGP VIDEO, INC	1/17/24, 3/20/24 Teleconference Processing, upload	4/17/2024	400.00
0008	CONFLUENCE ENGINEERING SOLUTIONS, INC.	3/1/24-3/31/24 Executive Director Services	4/17/2024	5,706.25
0009	CLEATH-HARRIS GEOLOGISTS, INC.	3/1/24-3/31/24 2023 Annual Report	4/17/2024	25,500.00
	CLEATH-HARRIS GEOLOGISTS, INC.	3/1/24-3/31/24 2024 Groundwater Monitoring	4/17/2024	3,599.40
0010	RICHARDS, WATSON & GERSHON A PROFESSIONAL CORPORATION	1/1/24-1/31/24 General Legal Counsel	4/17/2024	385.00
	RICHARDS, WATSON & GERSHON A PROFESSIONAL CORPORATION	2/1/24-2/29/24 General Legal Counsel	4/17/2024	70.00
0011	Robert Stilts, CPA	3/1/24-3/31/24 Accounting Services	4/17/2024	700.00
0012	CONFLUENCE ENGINEERING SOLUTIONS, INC.	4/1/24-4/30/24 Executive Director Services	5/22/2024	8,063.75
0013	CLEATH-HARRIS GEOLOGISTS, INC.	4/1/24-4/30/24 2023 Annual Report	5/22/2024	7,400.00
	CLEATH-HARRIS GEOLOGISTS, INC.	4/1/24-4/30/24 2024 Groundwater Monitoring	5/22/2024	22,789.20
0014	Robert Stilts, CPA	4/1/24-4/30/24 Accounting Services	5/22/2024	306.25
0015	AGP VIDEO, INC	4/17/24 Teleconference Processing, upload	6/12/2024	200.00
	AGP VIDEO, INC	5/15/24 Teleconference Processing, upload	6/12/2024	200.00
0016	CONFLUENCE ENGINEERING SOLUTIONS, INC.	5/1/24-5/31/24 Executive Director Services	6/12/2024	9,946.25
0017	CLEATH-HARRIS GEOLOGISTS, INC.	5/1/24-5/31/24 2023 Annual Report	6/12/2024	247.50
	CLEATH-HARRIS GEOLOGISTS, INC.	5/1/24-5/31/24 2024 Technical Support Services	6/12/2024	2,865.80
0018	Robert Stilts, CPA	5/1/24-5/31/24 Accounting Services	6/12/2024	481.25

Los Osos Basin Management Committee

Check/Voucher Register - Warrant Register

1012 - General Checking Account

From 1/1/2024 Through 12/31/2024

<u>Check Number</u>	<u>Vendor Name</u>	<u>Transaction Description</u>	<u>Document Date</u>	<u>Check Amount</u>
0019	CONFLUENCE ENGINEERING SOLUTIONS, INC.	6/1/24-6/30/24 Executive Director Services	7/28/2024	12,750.00
0020	CLEATH-HARRIS GEOLOGISTS, INC.	6/1/24-6/30/24 2024 Technical Support Services	7/28/2024	2,085.00
0021	Robert Stilts, CPA	6/1/24-6/30/24 Accounting Services	7/28/2024	262.50
ACH_Delux2.21.24	DELUXE	2/17/24 Deluxe Checks and Envelopes	2/21/2024	357.99
ACH_Strmlne2.16.24	STREAMLINE SOFTWARE, INC.	2/16/24 Streamline Website Hosting & Migration Fee	2/16/2024	1,690.00
Report Total				<u>159,428.89</u>

BASIN MANAGEMENT COMMITTEE BOARD OF DIRECTORS

Agenda Item 6b: Minutes of the Special Meeting of June 12, 2024

The following is a summary of the actions taken at the Basin Management Committee Board of Directors Meeting.
The official record for the meeting is the recording that can be found at:

<https://www.losososbmc.org/>

Agenda Item	Discussion or Action
1. Call to Order	Chair Zimmer called the meeting to order at approximately 1:30 PM (00:00:00).
2. Roll Call	Daniel Heimel, Executive Director, called roll to begin the meeting. Director Gibson, Director Zimmer, Director Cesena, and Reinke were present (00:00:30).
3. Pledge of Allegiance	(00:01:10)
4. Board Member Comments	<u>Board Discussion</u> (00:01:40) None. <u>Public Comment</u>
5. Special Presentation None.	None.
6. Consent Agenda 6a. Approval of Minutes from May 15th, BMC Meeting	<u>Board Discussion</u> (00:02:00) <u>Public Comment</u> Lindy Owen (00:04:20) <u>Board Action on Consent Agenda</u> (00:05:50) Approval of Minutes from May 15th, 2024 BMC Meeting. Motion: Director Gibson Second: Director Cesena Ayes: 3 Nays: None Abstain: Director Reineke Passes 3-0
7. Public Comments on Items Not Appearing on the Agenda	<u>Public Comment</u> (00:06:45) Lindy Owen (00:07:10) Emily Miggins (00:09:41) <u>Board Discussion</u> (00:13:00) None.
8. Executive Director's Report	<u>Executive Director's Report</u> (00:13:30) <u>Public Comment</u> Becky McFarland (00:15:45) <u>Board Discussion</u> (00:19:22)

9. Action Items	
9a. 2023 Annual Monitoring Report Final Draft	<p>Presentation of summary of report and changes from draft (00:21:00)</p> <p>Recommendation: Receive the final draft of the 2023 Annual Monitoring Report and consider for approval.</p> <p>Public Comment (00:22:10) Becky McFarland (00:22:57) Emily Miggins (00:23:40)</p> <p>Board Discussion (00:24:25)</p> <p>Board Action (00:29:00) The Directors approved the final draft of the 2023 Annual Monitoring Report and approved submission to the court.</p> <p>Motion: Director Gibson Second: Director Cesena Ayes: All Nays: None Abstain: None Passes 4-0</p>
9b. BMC Concurrence with and Agreement with the May 9th, 2024 Joint Letter from the Los Osos Water Purveyors to the County of San Luis Obispo Department of Planning and Building regarding the County’s proposed Growth Management Ordinance implementation strategy	<p>Presentation of the Los Osos Basin Proposed Growth Management Ordinance Amendments (00:29:40)</p> <p>Recommendation: Receive the letter and the agenda item “14. Local Coastal Programs” for the Coastal Commission Meeting on June 13th, 2024, which details the Los Osos Community Plan, and confirm concurrence and agreement with the letter.</p> <p>Public Comment (00:38:30) Pam Ouelette (presented by Becky McFarland) (00:38:50) Becky McFarland (00:42:00) Lindi Doud (00:43:50) Lisa Denker (00:45:00) Ron Smith (00:46:20) Emily Miggins (00:48:10) Bob Acnefficia (00:51:10) Lindy Owen (00:54:20) Richard Margetson (00:56:50) Written (email) public comment from James and Catherine Gentilucci on 6/8/24</p> <p>Board Discussion (01:00:00)</p> <p>Board Action (01:41:50) The Board received the letter and confirmed concurrence and agreement with the letter.</p> <p>Motion: Director Gibson Second: Director Cesena Ayes: 3 Nays: None</p>

	<p>Abstain: Director Reineke Motion passes 3-0 with S&T Abstaining</p>
<p>9c. Rose Foundation Central Coast Community-Based Water Quality Grants</p>	<p>Presentation Rose Foundation Central Coast Community-Based Water Quality Grants (01:44:10)</p> <p>Recommendation: Receive information on the Rose Foundation’s Central Coast Community-Based Water Quality Grants and potential funding for Los Osos Projects including the Ramona Lower-Aquifer monitoring well.</p> <p>Public Comment (01:50:20) Emily Miggins (01:50:40) Richard Margetson (01:51:40)</p> <p>Board Discussion (01:52:30)</p> <p>Board Action (02:00:30) Approve authorization to prepare and submit an application for potential funding of the monitoring well.</p> <p>Motion: Director Gibson Second: Director Rieneke Ayes: All Nays: None Abstain: None Motion passes 4-0</p>
<p>10. Adjournment</p>	<p>Meeting adjourned at approximately 3:30pm (02:01:38) The next regularly scheduled meeting is July 17th, 2024.</p>

TO: Los Osos Basin Management Committee

FROM: Dan Heibel, Executive Director

DATE: August 21st, 2024

SUBJECT: Item 8 – Executive Director’s Report

Recommendations

Staff recommends that the Basin Management Committee (BMC) receive and file the report and provide staff with any direction for future discussions. Sections of the Executive Director’s Report that have been updated or significantly changed from the previous meeting’s version are underlined and sections of the report that have not had any recent or anticipated updates have been removed.

Discussion

This report was prepared to summarize administrative matters not covered in other agenda items and to provide a general update on staff activities.

Presentations

Executive Director presented the Public Draft 2023 Los Osos Basin Annual Monitoring Report to the Los Osos Community Advisory Committee on June 23rd, 2024.

Funding and Financing Programs to Support Basin Plan Implementation

WRFP Grant: On February 11th, 2022 the Los Osos Community Services District (Los Osos CSD) submitted an application for a WRFP grant to develop a transient model and analyze recycled water and supplemental water projects to improve the sustainability of the Los Osos Basin (WRFP Study). Los Osos CSD was notified of the award of the grant in January 2023 and all the required documents were signed and fully executed. On May 17th, 2023 the BMC approved Cleath-Harris Geologist (CHG) to complete the WRFP Study and the WRFP Study is underway. The schedule for completion of the WRFP Study was recently extended to allow for additional time to develop and calibrate the Transient Model. Under the current schedule, the calibrated Transient Model is anticipated to be available in Fall 2024 and the draft WRFP Study available in January 2025.

BMC Staff will continue to monitor potential additional grant funding opportunities and bring information on these opportunities to the BMC for consideration as they become available.

Status of BMC Initiatives

BMC Website: On January 10th, 2024, the BMC launched its new website hosted at: www.lososobmc.org. This will be the new platform for obtaining information regarding BMC

Meetings, Annual Reporting and other initiatives. The interested parties email distribution list from the previous BMC website, hosted by the County of San Luis Obispo, has been transferred to the new website and will continue to be utilized to notify subscribers when information related to BMC Meetings and other initiatives is available. BMC and County Staff to coordinate on decommissioning the County's previously hosted BMC Website and to direct all traffic to the new BMC Website.

The BMC will transition from using AGP/SLOSPAN to YouTube for hosting meeting recordings. The Executive Director will be responsible for uploading the meeting recordings to the BMC's dedicated YouTube Channel. YouTube interfaces well with the BMC's new Streamline website and will allow meeting videos to be embedded on each meeting page. YouTube has additional features such as hyperlinking to jump to agenda items in the recording and auto-generated closed captioning/transcript. BMC meeting recordings typically require very little video editing, but the Executive Director has the software and knowledge to make video edits when needed (i.e., removing footage from before the meeting starts, adding a title slide, etc.).

DWR AEM Survey: On December 2022, BMC Staff were notified that the Los Osos Basin would be included in the Department of Water Resources (DWR) upcoming Statewide Airborne Electromagnetic (AEM) Survey in Spring 2023. To assist DWR in preparing flight lines for the AEM Survey, BMC Staff provided DWR with lithologic information for the Los Osos Basin and prepared an Area of Interest Map. The data collected during the AEM survey will improve DWR and the BMC's understanding of Los Osos Basin hydrogeology and seawater intrusion. The AEM Survey for the San Luis Obispo and Santa Barbara County basins was initiated on April 26th, 2023, however, due to weather conditions and the need to support emergency flood response efforts elsewhere in the State, DWR was not able to complete the survey of the Los Osos Basin. DWR returned to complete the survey in November 2023 and anticipates that the survey results will be available in Q3 2024. Additional information on DWR's Statewide AEM Survey Project can be found here:

<https://water.ca.gov/Programs/Groundwater-Management/Data-and-Tools/AEM>

Sustainable Yield: At its October 27th, 2021 Meeting, the BMC unanimously approved an updated Sustainable Yield estimate of 2,380 Acre-Feet per Year (AFY) for Calendar Year 2022 and at its December 6th, 2023 Meeting, the BMC unanimously approved retaining the current Sustainable Yield estimate of 2,380 AFY for CY 2024 for the following reasons: 1) No new infrastructure, not already considered in the 2022 Sustainable Yield Estimate, has been constructed; 2) estimates for the development of the Broderon Mound and long-term average rainfall were updated and incorporated into the CY 2022 Sustainable Yield Estimate and are not anticipated to change significantly on a year-over-year basis; 3) no significant hydrogeologic investigations have been conducted that would warrant an update to the steady-state groundwater model utilized to develop the Sustainable Yield Estimate.

Los Osos Basin Well Database: Cleath-Harris Geologists (CHG) completed the development of the Los Osos Basin Well Database and it is being utilized to support the development of the Transient Groundwater Model.

Basin Monitoring Program Improvement: In December 2023, construction of the Skyline Monitoring Wells was completed at the east end of Skyline Drive. The construction of these wells will allow the BMC to more accurately monitor seawater intrusion and groundwater conditions in Zones D & E of the Lower Aquifer at this critical location for the basin. In 2024, the BMC is working on modifying two existing wells (LA 14 and 16) to become dedicated Zone E monitoring Wells. The BMC is partnering with the National Estuary Program to gain access to available grant funding to fund a portion of these well modifications. To complete the modifications the BMC will be released a solicitation for design and construction oversight hydrogeologic support services and for drilling services to complete the modifications. The solicitation was released on July 25th, 2024 and received one proposal.

Basin Metric Evaluation: Analysis of potential modifications to the Basin Metric's is currently on hold. Proposed modifications to the metrics were provided to BMC Party Staff for review. However, BMC Party Staff requested that potential improvements to the existing BMC Monitoring Program (i.e. modifications to an existing wells or a new monitoring well) be evaluated prior to modifying the Basin Metrics. The BMC recently completed construction of two new monitoring wells at the eastern end of Skyline Drive. These new wells could be incorporated into the updated Basin Metrics. BMC Staff will develop recommendations on potential modifications to the Basin Metrics and bring them to the BMC for their consideration at a future date.

Transient Groundwater Model: See update under WRF Grant above.

Lower Aquifer Nitrate Investigation: On October 19th, 2022 the BMC authorized Calendar Year (CY) 2022 funding to perform additional Nitrate Source Investigation to better understand the source of Nitrate impacting lower aquifer production wells. However, due to the inability to obtain well owner permission to sample the desired wells, much of that work was not completed in 2022. Subsequently, the Regional Water Quality Control Board (RWQCB) staff reviewed the investigation information and findings available to date and provided a presentation to the BMC at its March 15th, 2023 Meeting. BMC Party Staff is working with RWQCB Staff to identify potential additional investigations to help better inform the sources of the nitrate in the LA8 Well. On March 8th, 2024 and April 29th, 2024 BMC Staff received updates from RWQCB Staff on the status of their investigation into the source of nitrate impacting water supply wells in the western Los Osos Valley Groundwater Basin.

BMC Initiatives Status Update: In 2020, the BMC completed an Implementation Plan evaluation exercise to identify and prioritize the use of the BMC's limited available staffing and funding resources. The outcome of this exercise was a prioritized list of Planning and Implementation initiatives that the BMC utilized to develop its workplan for 2021, 2022, 2023 and beyond. In 2024, the BMC intends to revisit the Implementation Plan and develop an updated, prioritize list of potential projects/initiatives to help inform the BMC's work plan for 2025 and beyond.

Land Use Planning Process Update

Guide to Planning Information for Development in Los Osos:

This website provides relevant planning information for the Los Osos Community Plan update and relevant milestones: [Los Osos Community Plan Update \(ca.gov\)](#)

Los Osos Community Plan:

On June 13th, 2024, the California Coastal Commission (CCC) unanimously certified an amendment to the Estero Area Plan (EAP) with suggested modifications, based on the Los Osos Community Plan. The new policies and regulations of the amendment do not take effect unless the Board of Supervisors takes action to accept the suggested modifications and the CCC subsequently takes final action, recognizing the Board of Supervisors' acceptance of the suggested modifications.

Key policies and regulations from CCC's June 13th action:

- Residential growth rate cap to be 1% of total residential dwelling units
- Requirement for development to comply with the community-wide Los Osos Habitat Conservation Plan (LOHCP) and Incidental Take Permit
- Requirement for development to be served by a sustainable wastewater treatment system (such as the Los Osos sewer)

The CCC June 13th Staff Report with the according Exhibits, including the proposed Local Coastal Program amendments and suggested modifications: [California Coastal Commission](#)

On October 29th, the County Board of Supervisors will hold a hearing to consider acceptance of California Coastal Commission's suggested modifications, amendment to Los Osos Community Plan, establishment of Los Osos growth rate and protocols for implementation of the "Los Osos Waitlist to Build", and implementation of the Los Osos Habitat Conservation Plan.

Los Osos Habitat Conservation Plan (HCP):

On February 15th, 2024, the U.S. Fish and Wildlife Service (USFWS) approved the Los Osos HCP and issued an incidental take permit (ITP) to the County of San Luis Obispo, authorizing take of Morro shoulderband snail that would result from covered activities in the Community of Los Osos in San Luis Obispo County. The ITP has been issued for a 25-year term.

In the Fall of 2024, the Planning & Building Department will be going to the Board of Supervisors to ask for a General Fund loan to begin implementing the LOHCP through land acquisition and habitat restoration projects. This will allow the Department to accrue LOHCP credits that can be issued as "certificates of inclusion" to mitigate against infrastructure and development project habitat impacts.

To see a list of frequently asked questions by the USFWS, visit this website: [Frequently Asked Questions Regarding the Final Los Osos Habitat Conservation Plan, Incidental Take Permit, and Environmental Assessment \(fws.gov\)](#)

Los Osos Water Recycling Facility Project Update

The following table summarizes flows from the LOWRF based on the available data.

2024 LOWRF Wastewater and Recycled Water Flows (Acre Feet)

Year	Month	Influent	Broderson	Bayridge	Sea Pines	Ag Users	Effluent
2024	Jan	57.71	44.63	1.18	2.23	0.00	48.05
2024	Feb	56.06	45.34	1.06	0.92	0.00	47.37
2024	Mar	64.89	32.69	1.12	3.95	0.03	48.51
2024	Apr	66.64	38.32	1.08	6.89	0.04	46.33
2024	May	57.00	28.68	1.23	12.07	0.35	42.34
2024	Jun	54.73	36.11	1.22	6.24	0.43	44.00
2024	Jul	63.09	34.12	1.33	7.91	0.38	45.25
2024	Aug						
2024	Sept						
2024	Oct						
2024	Nov						
2024	Dec						
Total							

LOWRF Project Updates:

- The County has projects for connecting the Los Osos Community Park, Los Osos Middle School, and Monarch Grove Elementary. Monarch Grove Elementary connection will go out to bid August 2024. The connections for the community park and middle school are anticipated to occur late 2024. The County has received funding through the ARPA grant program.
- The County has awarded the project, and the contractor is procuring materials for the effluent pump station VFD installation. VFDs will allow the pumps to ramp up and down based on the need in the recycled water distribution system and the plant return water supply. Currently the pumps only have the capability to run at one speed and that leads to increased wear and tear on the motor and impellers. The VFDs will be set to specific pressure setpoints that will be determined using the recycled water distribution model. The expected outcome from installing the VFDs is decreased energy consumption and recirculated water within the system.

Enforcement: A list of properties that were not connected were transferred to County Code Enforcement and Notice of Violations were issued last year in Feb. 2019. That list was about 70 properties. As of 5/12/2021, the sewer service area has a 99.4% connection status with a total of 36 properties not yet connected. Of those, one is not required to connect because there is no structure (demolished), 18 have expired building permits, and the rest have an open Code Enforcement case.

The County has assigned staff in code enforcement to Los Osos. Expired permits did not receive a Code Enforcement case because those properties have their own noticing process through the Building Department which, if not corrected, could result in a Notice of Violation.

Sustainable Groundwater Management Act (SGMA)

SGMA Overview: SGMA took effect on January 1, 2015.¹ SGMA provides new authorities to local agencies with water supply, water management or land use responsibilities and requires various actions be taken in order to achieve sustainable groundwater management in high and medium priority groundwater basins. Los Osos Valley Groundwater Basin (Los Osos Basin) was subject to SGMA based on the 2014 Basin Prioritization by the California Department of Water Resources (DWR) that listed the Los Osos Basin as high priority and in critical conditions of overdraft.²

Basin Prioritization: On December 18, 2019, DWR released the SGMA 2019 Basin Prioritizations. Basins or subbasins reassess to low or very low priority basins or subbasins are not subject to SGMA regulations.

¹ On September 16, 2014, Governor Jerry Brown signed into law a three-bill legislative package, composed of [AB 1739 \(Dickinson\)](#), [SB 1168 \(Pavley\)](#), and [SB 1319 \(Pavley\)](#), collectively known as SGMA

² SGMA mandates that all groundwater basins identified by DWR as high- or medium-priority by January 31, 2015, must have groundwater sustainability agencies established by June 30, 2017. The act also requires that all high- and medium-priority basins classified as being subject to critical conditions of overdraft in Bulletin 118, as of January 1, 2017, be covered by groundwater sustainability plans, or their equivalent, by January 31, 2020. Groundwater sustainability plans, or their equivalent, must be established for all other high- and medium-priority basins by January 31, 2022.

A summary of DWR's Final SGMA Prioritizations for the Los Osos Area Subbasin and Warden Creek Subbasin are listed below:

- Los Osos Area Subbasin is listed as **very low** priority for SGMA³ and in critical conditions of overdraft⁴
- SGMA does not apply to the portions of Los Osos Basin that are adjudicated provided that certain requirements are met (Water Code §10720.8).
- Warden Creek Subbasin is listed as **very low** priority for SGMA³

For more information on DWR's basin boundary modification and prioritization process, please visit: <https://water.ca.gov/Programs/Groundwater-Management/Basin-Prioritization>

Additional Attachments:

1. Updated Status of Basin Plan Programs

³ As noted by DWR, the priority for the subbasin has been set to very low (0 total priority points) as a result of conditions being met under sub-component C of the Draft SGMA 2019 Basin Prioritizations.

⁴ Critical conditions of overdraft have been identified in 21 groundwater basins as described in Bulletin 118 (Water Code Section 12924). Bulletin 118 (updates 2003) defines a groundwater basin subject to condition of critical overdraft as: "A basin is subject to critical conditions of overdraft when continuation of present water management practices would probably result in significant adverse overdraft-related environmental, social, or economic impacts."

Update on Status of Basin Plan Infrastructure Projects

Program Name	Project Name	Parties Involved	BMC Budgeted Amount	Funding Status	Anticipated Planning/Pre-Construction Cost	Anticipated Capital Cost	Status/Notes
Program A – Shift groundwater production from Lower Aquifer to Upper Aquifer	Water Systems Interconnection	LOCS D/ GSWC	NA	NA	NA	NA	Completed
	Upper Aquifer Well (8 th Street)	LOCS D	NA	Fully Funded	NA	\$307,000	Completed
	South Bay Well Nitrate Removal	LOCS D	NA	NA	NA	NA	Completed
	Palisades Well Modifications	LOCS D	NA	NA	NA	NA	Completed
	Blending Project (Skyline Well)	GSWC	NA	NA	NA	NA	Completed
	Water Meters	S&T	NA	NA	NA	NA	Completed
Program B - Shift groundwater production from Lower Aquifer to Upper Aquifer	LOCS D Wells (Upper Aquifer)	LOCS D		Not Funded	TBD	BMP: \$2.7 mil	Project not initiated
	GSWC Wells (Upper Aquifer)	GSWC		Not Funded	TBD	BMP: \$3.2 mil	Project not initiated
	Community Nitrate Removal Facility	LOCS D/GSWC/S&T	TBD	Partial, GSWC portion funded	TBD	GSWC: \$1.23 mil	GSWC’s Program A Blending Project might be capable of expanding to be the first phase of the Program B Community Nitrate Removal Facility.
Program C - Shift production within the Lower Aquifer from the Western Area to the Central Area of the Basin	Expansion Well No. 1 (Los Olivos)	GSWC	NA	NA	NA	NA	Completed
	Expansion Well No. 2 (Lower Aquifer)	LOCS D		LOCS D	TBD	BMP: \$2.5 mil	<u>The well construction is complete and the water transmission main construction activities are currently underway. Completion of all phases of the project is estimated to occur in late 2024.</u>
	Expansion Well 3 (Lower Aquifer) and LOVR Water Main Upgrade	GSWC/LOCS D		Cooperative Funding	TBD	BMP: \$1.6 mil	
	LOVR Water Main Upgrade	GSWC		May be deferred	TBD	BMP: \$1.53 mil	Project may not be required, depending on the pumping capacity of the drilled Program C wells. It may be deferred to Program D.
	S&T/GSWC Interconnection	S&T/ GSWC		Pending	TBD	BMP: \$30,000	Currently on hold pending further evaluation of the project.
Program D - Shift production within the Lower Aquifer from the Western Area to the Eastern Area of the Basin							Currently being considered for deferment through Adaptive Management. BMC to review on an annual or semi-annual basis.
Program M – Groundwater Monitoring Plan	New Zone D/E lower aquifer monitoring well in Cuesta by the Sea	All Parties	NA	NA	NA	NA	Completed

Program Name	Project Name	Parties Involved	BMC Budgeted Amount	Funding Status	Anticipated Planning/Pre-Construction Cost	Anticipated Capital Cost	Status/Notes
Program U - Urban Water Reinvestment Program	Creek Discharge Program	All Parties				TBD	These activities are currently on hold.
	8 th and El Moro Urban Storm Water Recovery Project	All Parties				TBD	These activities are currently on hold.

TO: Los Osos Basin Management Committee

FROM: Dan Heibel, Executive Director

DATE: August 21, 2024

SUBJECT: Item 9a – Draft Spring 2024 Los Osos Basin Lower Aquifer Water Quality Monitoring Results and Updated Chloride Metric

Recommendations

Receive an update on the Draft Spring 2024 Los Osos Basin Lower Aquifer Water Quality Monitoring Results and Updated Chloride Metric.

Discussion

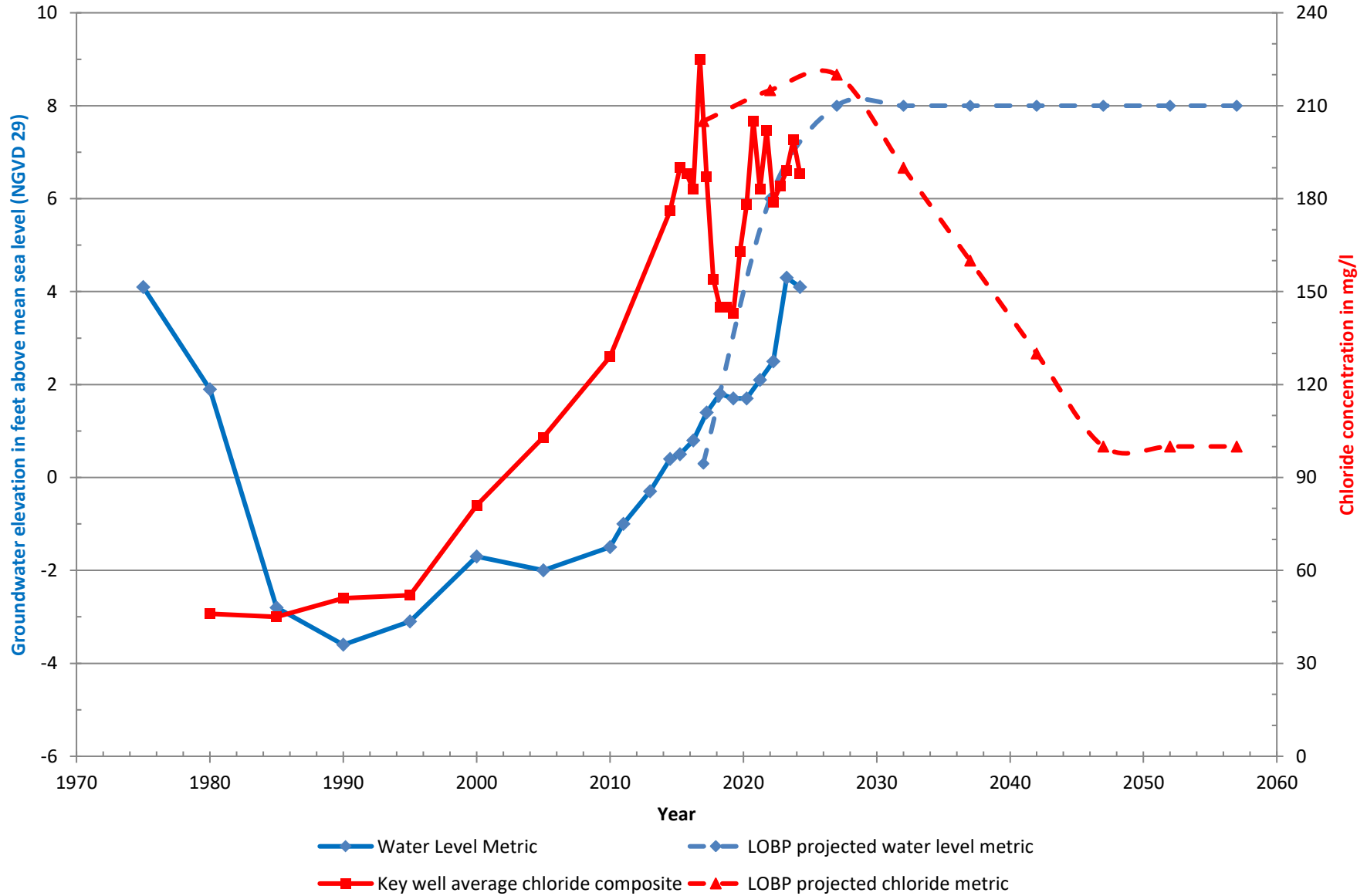
Please find the attached Draft Spring 2024 Los Osos Basin Lower Aquifer Water Quality Monitoring Results and Updated Chloride Metric for the Los Osos Basin. As described in Section 5.14 of the Stipulated Judgment and Chapter 7 of the Basin Plan, the Basin Management Committee (BMC) established a groundwater monitoring program to provide the BMC, parties to the adjudication, private Basin water users and public agencies with updated information on groundwater resources in the Los Osos Basin. The final results, including water levels and results from the First Water and Upper Aquifer monitoring, will be included in the 2024 Annual Report.

Attachments

Draft Spring 2024 Los Osos Basin Lower Aquifer Water Quality Monitoring Results and Updated Chloride Metric for the Los Osos Basin

Spring 2024 DRAFT

Chloride and Water Level Metric Lower Aquifer



Los Osos BMC Water Quality Results - Lower Aquifer Monitoring

Station ID	Well Name	Basin Plan Well ID	Aquifer Zone	Date	HCO3	Total Hardness	Cond	pH	TDS	Cl	NO3-N	SO4	Ca	Mg	K	Na
					mg/L	mg/L	µmhos/cm		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
30S/10E-11A2	Sand Spit #1 East	LA2	D	3/14/2005	180	4600	16000	7.3	8900	5400	ND	430	770	640	20	1300
				10/21/2015	150	6640	17700	7.4	13100	6300	ND	740	1030	990	31	1560
				11/5/2020	220	6700	18000	7.7	15300	5890	ND	777	1140	936	38	1560
30S/10E-12J1	MBO5 DWR Obs.	LA11	E	2/14/2005	350	370	1300	8.1	840	77	ND	190	51	58	6.1	110
				11/20/2009	300	360	1150	7.5	732	83	ND	190	51	58	4.4	95
				7/24/2014	360	489	1290	7.7	780	105	ND	212	69	77	5	88
				4/22/2015	360	475	1290	7.8	810	112	ND	189	65	76	5	88
				10/1/2015	250	486	1280	7.3	840	117	ND	188	68	77	4	85
				4/20/2016	330	524	1370	n/a	840	151	ND	193	73	40	5	83
				10/10/2016	350	497	1370	7.1	930	173	ND	189	69	79	4	81
				4/11/2017	350	541	1380	7.5	880	167	ND	186	75	86	4	81
				10/4/2017	300	543	1370	7	850	162	ND	191	76	86	5	90
				4/10/2018	350	595	1390	7.6	820	173	ND	192	85	93	5	97
				10/2/2018	350	497	1340	7.4	870	160	ND	160	69	79	3	87
				4/9/2019	350	539	1430	7.4	860	196	ND	189	76	85	4	85
				10/2/2019	250	290	1520	7.6	1000	187	ND	189	80	90	5	91
				4/14/2020	350	667	1580	7	950	222	ND	187	81	113	5	83
				10/1/2020	350	763	1650	7.1	1040	242	ND	183	85	134	5	88
				4/5/2021	345	612	1630	7.6	1050	256	ND	192	88	96	5	91
				10/6/2021	340	569	1710	7.3	1020	258	ND	176	83	88	5	82
				4/13/2022	330	620	1800	7.3	1020	287	ND	183	90	96	4	87
10/6/2022	350	633	1720	7.7	1220	279	ND	195	89	100	5	93				
4/13/2023	350	653	1840	7.2	1040	346	ND	188	92	103	5	89				
10/4/2023	340	715	1910	7.4	1300	350	ND	188	102	112	5	93				
4/2/2024	350	675	1870	7.6	1130	340	ND	194	94	107	5	91				
30S/10E-13Bb	Lupine Zone D	LA41	D	11/7/2019	210	312	1310	7.7	760	136	3.1	188	69	34	4	140
				4/8/2020	310	204	943	7.1	560	68	0.3	109	44	23	2	101
				10/8/2020	340	263	920	7.1	490	52	0.1	89.4	51	33	2	72
				4/14/2021	333	289	855	7.9	505	66	ND	86	53	38	2	60
				10/11/2021	340	309	812	7.2	460	48	ND	80	58	40	2	64
				4/12/2022	330	309	818	8.3	500	47	ND	67	58	40	2	58
				10/11/2022	340	315	766	7.6	470	48	ND	71	62	39	2	57
				4/11/2023	340	260	764	7.5	440	51	ND	58	48	34	2	47
				10/23/2023	340	281	754	7.0	460	48	ND	57	50	38	2	50
4/9/2024	340	292	729	7.5	410	48	ND	52	51	40	2	51				

Los Osos BMC Water Quality Results - Lower Aquifer Monitoring

Station ID	Well Name	Basin Plan Well ID	Aquifer Zone	Date	HCO ₃	Total Hardness	Cond	pH	TDS	Cl	NO ₃ -N	SO ₄	Ca	Mg	K	Na
					mg/L	mg/L	µmhos/cm		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
30S/10E-13Ba	Lupine Zone E	LA40	E	11/6/2019	210	2090	5330	7	4750	1460	1.3	224	388	272	6	182
				4/7/2020	240	3300	7360	7.6	6340	2190	0.3	202	569	458	7	203
				10/7/2020	270	4100	8220	6.9	7930	2220	ND	192	720	560	8	217
				4/15/2021	274	3760	8590	7.4	6760	2510	ND	217	558	576	7	210
				10/13/2021	270	3540	8930	7.4	7430	2910	ND	201	544	530	6	190
				4/14/2022	270	3780	8790	7.3	6790	2410	ND	187	523	601	6	178
				10/12/2022	280	3860	8860	7.5	8340	2900	ND	221	569	594	7	186
				4/12/2023	280	4570	9020	7.3	5870	2820	ND	232	575	762	7	198
				10/24/2023	280	4450	9200	6.9	9610	3200	ND	259	764	619	6	201
4/8/2024	280	3760	9020	7.4	8040	3200	ND	251	650	519	6	197				
30S/10E-13J1* Highlighted chloride values have been adjusted for wellbore leakage	GSWC Rosina	LA10	D,E	12/20/2004	72	230	720	7.1	410	150	1.6	14	38	33	1.4	29
				1/14/2010	35	260	778	6	435	200	1.6	13	41	38	1.5	33
				7/24/2014	80	418	1200	7.3	910	303	1.7	16	67	61	2	39
				4/22/2015	80	431	1230	7.1	750	331	1.9	20	69	63	2	39
				10/5/2015	70	460	1280	7	950	329	1.7	19	74	67	2	41
				4/26/2016	80	412	1170	7.1	840	299	1.8	18	66	60	2	37
				10/12/2016	60	509	1430	6.8	1100	389	1.8	26.7	82	74	2	44
				4/10/2017	80	327	957	6.9	720	300	2.6	14.7	52	48	2	35
				10/12/2017	80	245	702	6.9	510	220	3.4	12.5	39	36	2	33
				4/24/2018	70	188	620	7.4	400	190	4.3	12.3	29	28	1	29
				10/9/2018	70	265	730	7.1	450	210	3.2	12.7	42	39	2	34
				4/15/2019	80	251	744	7	600	174	1.9	10.4	38	38	2	31
				10/14/2019	80	332	961	7.1	830	229	2	12.7	54	48	1	33
				4/21/2020	80	353	1310	6.4	970	250	2.1	14.2	59	50	2	32
				10/7/2020	70	183	618	7.6	430	310	4.6	11.3	29	27	1	33
				4/6/2021	81	405	1110	7.6	815	258	2.1	16.1	66	58	2	36
				10/8/2021	80	413	1180	7.2	790	289	2.1	16.8	65	61	2	37
				4/18/2022	70	192	612	7.1	420	220	5.8	14.9	29	29	1	37
				12/5/2022	90	327	911	7.7	690	235	2	13.4	52	48	2	33
				5/8/2023	80	303	892	7.1	690	211	2	12.5	49	44	2	51
10/10/2023	80	277	805	7.6	610	235	3.2	13.2	45	40	2	35				
4/10/2024	70	230	688	7.2	480	211	3.2	11.4	36	34	2	31				

Los Osos BMC Water Quality Results - Lower Aquifer Monitoring

Station ID	Well Name	Basin Plan Well ID	Aquifer Zone	Date	HCO ₃	Total Hardness	Cond	pH	TDS	Cl	NO ₃ -N	SO ₄	Ca	Mg	K	Na
					mg/L	mg/L	µmhos/cm		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
30S/10E-13M2 4/1/2021 sample results show Upper Aquifer influence due to reduced pumping	Howard East	LA31	C,D	11/22/2004	51	810	2900	7.3	1500	810	0.5	140	60	120	4.7	210
				12/9/2009	55	1100	3740	7.1	2170	1100	0.5	220	160	160	4.8	370
				8/4/2014	60	757	3340	7.1	2450	990	0.6	178	117	113	5	382
				4/21/2015	60	739	3430	7.3	1930	950	0.6	178	117	113	5	382
				10/6/2015	30	756	3370	7.1	2140	960	0.5	185	115	114	5	342
				4/20/2016	50	726	3520	7.2	2190	941	0.7	179	113	108	5	400
				10/19/2016	70	722	3420	7.4	2190	943	0.6	182	113	107	4	398
				4/17/2017	60	733	3380	6.8	2060	907	0.6	178	114	109	4	413
				10/5/2017	60	738	3350	7.5	2190	960	0.7	160	116	109	5	411
				4/24/2018	70	664	3370	7.2	2020	946	0.6	2.8	103	99	4	367
				10/17/2018	60	740	3400	7.3	2180	834	0.6	153	115	110	5	414
				4/3/2019	70	640	3290	7.8	2010	940	0.6	179	103	93	4	341
				10/3/2019	70	574	3120	7.4	2120	827	0.7	169	90	85	4	340
				4/9/2020	70	519	2970	7.8	1740	738	0.6	152	86	74	4	258
				10/1/2020	70	774	3330	8	2080	844	0.7	169	94	131	5	495
				4/1/2021	218	187	1010	8.3	581	161	2.9	47	31	27	20	113
				11/4/2021	70	509	2780	7.9	1700	629	0.6	124	77	77	4	305
				5/11/2022	70	388	2550	7.6	1540	578	0.6	134	60	58	3	303
10/6/2022	70	506	2520	8.3	1840	636	0.7	145	79	75	4	268				
4/4/2023	70	352	2180	7.1	1370	599	0.6	121	52	54	4	272				
11/7/2023	70	425	2340	8.0	1440	600	0.7	131	68	62	3	247				
4/18/2024	70	375	2060	8.2	1230	560	0.7	113	58	56	3	221				

Los Osos BMC Water Quality Results - Lower Aquifer Monitoring

Station ID	Well Name	Basin Plan Well ID	Aquifer Zone	Date	HCO ₃	Total Hardness	Cond	pH	TDS	Cl	NO ₃ -N	SO ₄	Ca	Mg	K	Na
					mg/L	mg/L	µmhos/cm		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
30S/10E-13N	S&T #5	LA8	D	11/23/2004	42	80	390	6.9	200	67	5.9	9.2	13	12	1.7	38
				11/19/2009	41	89	386	6.8	267	73	6.1	11	15	13	1.4	38
				7/24/2014	50	100	438	7.4	270	76	7	10	17	14	2	38
				4/21/2015	50	98	445	6.9	280	77	7.7	11	16	14	2	38
				10/6/2015	40	98	422	7.2	310	75	6.8	10	16	14	1	38
				4/20/2016	20	97.5	446	7	320	76	7.2	12	16	14	1	38
				10/13/2016	50	104	470	8	320	79	7.2	12	17	15	1	40
				4/11/2017	50	100	434	7.4	270	77	7.3	12.4	17	14	1	38
				10/2/2017	30	95	438	7.2	290	78	7.6	13.2	15	14	1	36
				4/11/2018	60	104	440	7	260	79	7.9	13.5	17	15	1	39
				10/3/2018	60	107	430	6.5	340	66	6.7	12.9	18	15	2	40
				4/3/2019	50	100	434	6.3	250	75	7.3	12.7	17	14	1	36
				10/7/2019	60	95	446	7.6	250	77	7.7	14.4	15	14	1	37
				4/13/2020	60	104	443	8	300	75	7.4	14.5	17	15	2	37
				10/1/2020	60	108	464	7.9	300	76	7.5	14.4	17	16	1	40
				4/6/2021	63	103	438	7.4	302	78	7.8	13.1	17	15	1.4	38
				10/8/2021	60	108	443	7.8	290	77	7.5	13.3	17	16	2	41
				4/13/2022	60	106	449	8.1	270	76	7.3	12.8	16	16	1	40
10/4/2022	60	108	432	7.4	280	77	6.6	13.1	17	16	2	38				
4/13/2023	60	139	443	8.0	250	80	7.3	13.2	21	21	1	41				
10/4/2023	60	108	455	7.6	310	81	7.3	13.1	17	16	2	40				
4/4/2024	60	106	452	7.7	280	85	7.5	14.1	16	16	2	37				

Los Osos BMC Water Quality Results - Lower Aquifer Monitoring

Station ID	Well Name	Basin Plan Well ID	Aquifer Zone	Date	HCO ₃	Total Hardness	Cond	pH	TDS	Cl	NO ₃ -N	SO ₄	Ca	Mg	K	Na			
					mg/L	mg/L	µmhos/cm		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L			
30S/10E-24C1	GSWC Cabrillo	LA9	D	12/20/2004	64	130	610	7	310	110	4.5	19	22	19	1.6	50			
				11/20/2009	60	150	611	7.1	347	130	4.1	22	23	22	1.6	52			
				7/24/2014	40	69	339	7.6	240	46	8.4	6	11	10	1	32			
				4/22/2015	70	117	530	7.3	320	95	5.5	16	19	17	2	45			
				10/5/2015	50	75	349	7.6	270	50	7.6	7	12	11	1	34			
				4/26/2016	70	115	499	7	300	90	5.6	16	18	17	2	44			
				10/12/2016	70	111	506	7.1	320	93	5.5	15.1	18	16	1	44			
				4/10/2017	70	111	490	7	310	89	5.7	15.9	18	16	1	43			
				10/12/2017	70	117	484	7	270	89	6	16.3	19	17	2	46			
				4/24/2018	70	115	486	7.8	300	90	6.2	16.7	18	17	1	43			
				10/9/2018	60	135	477	6.9	280	76	5.8	17.2	21	20	2	50			
				4/15/2019	70	112	488	7.1	310	92	5.7	15.6	17	17	2	45			
				10/14/2019	no sample (off-line)														
				4/21/2020	300	75.2	674	6.71	370	37	0.2	28.4	3	35	2	42			
				10/7/2020	60	102	460	7.4	270	75	6.6	13.1	16	15	1	40			
				4/6/2021	63	98.6	443	7.89	287	78	6.8	12.2	16	15	1	39			
				10/8/2021	60	112	490	7.7	280	86	6.4	16	17	17	2	44			
				4/18/2022	70	126	533	7.23	330	93	6.2	16.2	19	19	2	46			
				10/19/2022	70	126	502	7.4	310	93	6.5	15.6	19	19	2	48			
				4/11/2023	80	117	518	7.5	330	98	6.8	17.3	19	17	1	43			
10/10/2023	70	128	545	7.58	380	96	6.8	17.4	20	19	2	47							
4/10/2024	70	128	535	7.07	330	98	7	17.9	20	19	2	47							

Los Osos BMC Water Quality Results - Lower Aquifer Monitoring

Station ID	Well Name	Basin Plan Well ID	Aquifer Zone	Date	HCO ₃	Total Hardness	Cond	pH	TDS	Cl	NO ₃ -N	SO ₄	Ca	Mg	K	Na
					mg/L	mg/L	µmhos/cm		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
30S/11E-7Q3	LOCSD 8th St.	LA12	D	11/18/2004	250	270	790	7.5	410	73	ND	39	44	40	2.3	48
				11/19/2009	220	290	782	7.4	465	92	ND	46	46	42	1.9	53
				7/23/2014	290	303	876	7.6	460	91	ND	43	49	44	2	54
				4/21/2015	290	305	897	7.7	500	101	ND	55	48	45	2	59
				10/6/2015	280	298	828	7.4	490	91	ND	46	47	44	2	55
				4/20/2016	190	307	907	7.7	520	91	ND	49	49	45	2	54
				10/11/2016	280	278	827	4.9	490	93	ND	46.2	44	41	2	52
				4/10/2017	300	294	839	7.3	480	91	ND	49.5	47	43	2	54
				10/4/2017	220	305	826	6.5	470	92	ND	45	48	45	2	56
				4/10/2018	300	319	814	7.7	440	93	ND	46.2	52	46	2	56
				10/2/2018	290	283	822	7.3	470	78	ND	50.1	46	41	1	53
				4/9/2019	300	301	844	7.5	480	94	ND	49.7	48	44	2	53
				10/2/2019	290	312	877	8	530	91	ND	50.9	49	46	2	56
				4/16/2020	310	301	883	7.8	500	94	ND	54.7	48	44	2	52
				10/5/2020	300	321	891	7.9	510	89	ND	49.6	51	47	2	57
				4/5/2021	305	297	849	7.7	504	94	ND	54.1	48	43	2	54
				10/6/2021	300	283	874	7.5	510	95	ND	55	46	41	2	51
				4/13/2022	300	276	879	7.4	490	94	ND	51.5	43	41	2	50
10/4/2022	310	285	839	7.9	500	94	ND	51.5	45	42	2	52				
4/5/2023	310	317	842	7.1	490	98	ND	51.9	48	48	3	72				
10/11/2023	310	298	849	7.4	520	95	ND	52.1	47	44	2	53				
4/1/2024	310	305	849	7.9	480	95	ND	17	48	45	2	55				

Los Osos BMC Water Quality Results - Lower Aquifer Monitoring

Station ID	Well Name	Basin Plan Well ID	Aquifer Zone	Date	HCO ₃	Total Hardness	Cond	pH	TDS	Cl	NO ₃ -N	SO ₄	Ca	Mg	K	Na
					mg/L	mg/L	µmhos/cm		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
30S/11E-17E8	So. Bay Obs. Middle	LA22	D	1/14/2005	150	150	440	7.5	290	34	2.2	11	24	22	1.4	28
				11/20/2009	120	160	455	7.3	255	42	4.3	12	25	23	1.3	29
				7/23/2014	150	166	500	7.6	270	43	6.3	10	27	24	2	28
				4/21/2015	150	157	481	7.6	270	49	7.1	13	25	23	1	28
				10/1/2015	120	164	475	7.4	290	44	6.6	10	26	24	1	28
				4/19/2016	150	164	476	6.9	290	45	6.9	12	26	24	1	29
				10/13/2016	140	161	521	7.3	290	46	6.9	11.9	25	24	1	29
				4/13/2017	150	164	466	7.3	300	46	6.7	13.2	26	24	1	29
				10/11/2017	150	168	476	7.7	260	47	7.2	14	26	25	1	29
				4/16/2018	150	165	473	6.4	310	47	6.7	14.2	25	25	1	29
				10/10/2018	150	160	471	7.5	250	43	6.1	15	26	23	1	28
				4/10/2019	180	153	466	7.2	290	46	5.8	13.6	25	22	1	28
				10/9/2019	150	155	485	7.3	270	49	7	14.9	24	23	1	28
				4/14/2020	160	164	482	8	280	48	6.3	14.9	26	24	1	27
				10/6/2020	160	181	506	7.5	340	47	6.7	14.7	28	27	1	30
				4/8/2021	159	154	470	7.5	329	46	5.8	12.5	24	23	1	27
				10/19/2021	170	181	480	7.4	310	41	5.8	14.9	28	27	1	29
				4/20/2022	160	178	518	7.6	320	43	7.4	14.6	27	27	1	29
10/17/2022	180	213	485	7.4	300	45	7	16.5	31	33	2	32				
4/6/2023	200	176	496	7.7	300	41	5.5	14.9	26	27	1	26				
10/17/2023	170	169	465	7.0	290	45	6.1	13.7	25	26	2	28				
4/3/2024	170	159	465	7.6	250	45	4.9	14.4	24	24	1	28				

Los Osos BMC Water Quality Results - Lower Aquifer Monitoring

Station ID	Well Name	Basin Plan Well ID	Aquifer Zone	Date	HCO ₃	Total Hardness	Cond	pH	TDS	Cl	NO ₃ -N	SO ₄	Ca	Mg	K	Na
					mg/L	mg/L	µmhos/cm		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
30S/11E-17N10	GSWC So. Bay #1	LA20	C,D,E	Jan 2003	250	--	510	7.1	290	37	ND	21	41	25	1.3	35
				11/20/2009	230	220	638	7.3	357	41	0.5	30	35	33	1.7	37
				7/24/2014	280	232	646	7.7	370	37	0.5	24	37	34	2	41
				4/22/2015	290	234	653	7.4	360	43	0.6	27	36	35	2	42
				10/5/2015	280	227	614	7.2	370	38	0.5	23	35	34	2	41
				4/26/2016	230	227	629	7.1	360	39	0.6	27	35	34	2	40
				10/12/2016	290	221	631	7	370	40	0.6	25.2	34	33	2	40
				4/10/2017	280	227	624	7.2	380	39	0.6	26.7	35	34	2	40
				10/12/2017	260	240	583	6.6	320	41	0.7	27.9	37	36	2	43
				4/24/2018	200	166	515	7.4	330	43	3.2	23.2	27	24	2	31
				10/9/2018	290	273	632	7.2	340	38	0.6	29.2	42	41	3	47
				4/15/2019	200	181	559	7.4	310	42	3.1	21.7	28	27	2	34
				10/14/2019	290	221	626	7.2	380	41	0.7	29	34	33	2	40
				4/21/2020	300	230	705	7	400	50	0.7	26.9	36	34	2	42
				10/7/2020	290	227	654	7.5	350	40	0.7	27	35	34	2	42
				4/6/2021	204	178	529	7.9	329	43	3	21.1	29	26	2	33
				10/7/2021	290	245	633	6.8	340	40	0.7	27.8	37	37	2	43
				4/18/2022	280	242	636	7.4	360	39	0.7	26.6	36	37	2	42
10/19/2022	300	245	616	7.6	330	40	0.7	26.4	37	37	2	43				
4/11/2023	200	173	515	7.8	290	43	3.4	21.8	28	25	2	33				
10/10/2023	220	193	538	7.7	320	43	3	23.4	31	28	2	36				
4/10/2024	300	231	610	7.3	330	40	0.7	27.3	35	35	2	40				

Los Osos BMC Water Quality Results - Lower Aquifer Monitoring

Station ID	Well Name	Basin Plan Well ID	Aquifer Zone	Date	HCO ₃	Total Hardness	Cond	pH	TDS	Cl	NO ₃ -N	SO ₄	Ca	Mg	K	Na
					mg/L	mg/L	µmhos/cm		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
30S/11E-18K8	10th St. Obs. East (Deep)	LA18	E	1/19/2005	260	290	650	7.5	370	33	ND	38	62	33	2.5	28
				11/20/2009	230	220	620	7.5	378	32	ND	40	51	24	1.8	23
				7/24/2014	290	271	647	7.5	380	28	ND	34	56	32	2	27
				4/21/2015	290	265	634	7.7	400	33	ND	39	55	31	2	27
				10/19/2015	230	256	621	7.3	370	29	ND	33	53	30	2	26
				4/20/2016	190	265	700	7.5	390	31	ND	38	55	31	2	26
				10/18/2016	290	256	615	6.8	370	31	ND	35.9	53	30	2	26
				4/12/2017	290	274	616	7.5	450	31	ND	38	57	32	2	27
				10/10/2017	220	271	619	7.8	350	30	ND	35.5	56	32	2	27
				4/17/2018	290	260	625	7.3	390	33	ND	39.9	53	31	2	27
				10/10/2018	290	254	608	7.5	360	31	ND	39.8	54	29	2	26
				4/10/2019	290	245	620	7.6	380	32	ND	37.4	52	28	2	25
				10/9/2019	290	253	647	7.9	390	33	ND	40.5	52	30	2	26
				4/14/2020	290	269	629	7.5	400	33	ND	40.2	55	32	2	26
				10/22/2020	300	247	669	7.5	370	32	ND	38.2	51	29	3	26
				4/12/2021	298	267	621	7.6	389	32	ND	41.2	54	32	2	27
				10/19/2021	300	287	657	7.4	400	32	ND	38.4	59	34	2	28
				4/15/2022	290	257	638	8.3	420	31	ND	36.5	52	31	2	25
10/10/2022	310	278	613	8.0	400	33	ND	39.3	57	33	2	29				
4/6/2023	310	252	623	7.9	410	32	ND	38.7	50	31	2	26				
10/17/2023	310	264	622	7.1	430	31	ND	37.7	53	32	2	26				
4/3/2024	310	260	628	7.6	410	33	ND	40	53	31	2	27				

Los Osos BMC Water Quality Results - Lower Aquifer Monitoring

Station ID	Well Name	Basin Plan Well ID	Aquifer Zone	Date	HCO ₃	Total Hardness	Cond	pH	TDS	Cl	NO ₃ -N	SO ₄	Ca	Mg	K	Na
					mg/L	mg/L	µmhos/cm		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
30S/11E-18K9	LOCSD 10th St.	LA32	C,D	May 2002	250	--	550	6.9	320	37	0.2	26	31	32	--	39
				11/20/2009	180	160	539	7.2	307	36	1	27	27	24	1.3	32
				7/23/2014	220	190	546	7.7	300	32	1	20	30	28	1	35
				4/21/2015	190	108	504	7.6	270	38	1.6	20	17	16	1	27
				10/6/2015	50	62	248	7.2	190	31	5.9	3	10	9	ND	21
				4/20/2016	130	121	382	7.5	220	32	3.3	12	19	18	1	27
				10/11/2016	200	168	511	6.6	270	36	1.2	21.5	26	25	1	34
				4/10/2017	190	155	461	7.3	270	35	1.9	19.1	24	23	1	31
				10/9/2017	200	168	493	7.6	270	36	1.4	23.1	26	25	1	33
				4/10/2018	50	75.2	256	7.7	150	35	6.5	28.6	12	11	ND	23
				10/2/2018	210	168	492	7.3	270	36	1.3	22	26	25	ND	33
				4/9/2019	200	172	474	7.6	270	34	1.6	21.5	26	26	1	33
				10/2/2019	200	185	531	7.4	310	36	1.4	24.7	28	28	1	35
				4/16/2020	60	72.7	272	8.1	190	35	6	5.4	11	11	ND	20
				10/6/2020	60	68.6	246	8	180	30	4	4.9	11	10	ND	21
				4/5/2021	143	128	390	7.8	247	34	2.1	15.7	20	19	1	27
				10/6/2021	60	68.6	255	7.7	150	30	3.9	5.7	11	10	ND	20
				4/13/2022	70	66.1	262	7.6	150	30	3.8	5.2	10	10	ND	20
				10/6/2022	200	211	461	7.7	260	38	1.4	23.5	32	32	2	58
4/5/2023	190	169	465	7.2	290	38	1.4	22.8	25	26	1	33				
10/10/2023	200	168	482	7.6	290	38	1.3	21.4	26	25	2	32				
4/1/2024	200	172	487	7.7	260	41	1.4	23	26	26	2	32				

Los Osos BMC Water Quality Results - Lower Aquifer Monitoring

Station ID	Well Name	Basin Plan Well ID	Aquifer Zone	Date	HCO3	Total Hardness	Cond	pH	TDS	Cl	NO3-N	SO4	Ca	Mg	K	Na
					mg/L	mg/L	µmhos/cm		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
30S/11E-18K	GSWC Los Olivos #5	LA39	D	4/15/2019	290	230	619	8.1	350	38	ND	27.4	33	36	2	41
				10/14/2019	300	225	628	7.2	370	37	ND	28.6	34	34	1	41
				4/21/2020	300	236	674	6.9	370	37	0.2	28.4	37	35	2	42
				10/7/2020	300	227	657	7.4	360	37	ND	28.2	35	34	2	43
				4/6/2021	301	226	629	8.0	382	38	ND	25.8	34	34	2	40
				10/8/2021	300	253	638	7.4	360	37	ND	29.3	37	39	2	45
				4/18/2022	250	209	561	7.6	330	34	ND	17.8	31	32	2	34
				10/19/2022	310	236	617	7.6	330	37	ND	28	37	35	2	44
				4/11/2023	310	214	626	7.5	340	38	ND	30.1	33	32	1	40
				10/10/2023	310	245	632	7.4	370	37	ND	29.4	37	37	2	42
4/10/2024	310	235	625	7.2	350	38	ND	31.3	35	36	2	41				
30S/11E-18L2**	LOCS D Palisades	LA15	D,E	11/18/2004	220	330	880	7.3	420	120	ND	31	54	48	2.2	40
				11/19/2009	200	590	1460	7.2	890	360	0.4	39	94	86	2	44
			D	7/23/2014	250	293	783	7.8	390	90	0.4	26	48	42	2	40
				4/29/2015	80	78	348	7.4	230	43	5	10	13	11	ND	30
				10/28/2015	230	288	782	7.4	420	104	0.6	29	46	42	ND	36
				4/27/2016	230	264	796	7.3	450	93	0.9	28	43	38	2	43
				10/11/2016	200	221	694	7	380	91	1.7	25.5	36	32	1	35
				10/5/2017	180	306	768	7.6	400	102	0.7	27	50	44	2	40
				4/10/2018	250	311	767	7.3	420	100	0.8	32.4	52	44	2	40
				10/23/2018	250	288	772	7.7	440	83	0.6	30.7	48	41	1	38
				4/9/2019	250	301	774	7.4	460	102	0.8	29.2	48	44	1	38
				11/14/2019	210	303	806	7.8	430	107	0.7	32.9	49	44	2	39
				4/16/2020	260	299	832	7.7	460	109	0.8	32.5	49	43	2	37
				10/5/2020	250	319	841	7.8	450	109	0.7	29.7	52	46	2	41
				4/6/2021	234	290	780	7.7	444	108	1	27.2	47	42	2	38
				10/6/2021	250	295	856	7.3	490	107	0.5	32.8	49	42	2	37
				4/13/2022	250	330	876	7.3	470	116	0.5	30.3	53	48	2	43
				10/4/2022	250	326	885	7.7	610	138	0.8	31.2	53	47	2	40
				4/11/2023	250	282	877	8.2	470	142	0.8	31.4	47	40	2	37
				10/9/2023	270	331	898	7.6	570	130	0.5	31.1	55	47	2	40
4/2/2024	260	323	861	7.9	480	130	0.7	32.9	52	47	2	39				

Los Osos BMC Water Quality Results - Lower Aquifer Monitoring

Station ID	Well Name	Basin Plan Well ID	Aquifer Zone	Date	HCO3	Total Hardness	Cond	pH	TDS	Cl	NO3-N	SO4	Ca	Mg	K	Na
					mg/L	mg/L	µmhos/cm		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
30S/11E-18F2	LOCSD Ferrell	LA13	D	4/5/2023	190	132	668	8.3	310	77	ND	62.1	15	23	2	76
				10/11/2023	280	168	656	7.7	400	50	ND	39.7	23	27	2	70
				4/11/2024	210	139	583	8.4	290	61	ND	41	13	26	2	66
30S/10E-14B2	Sand Spit #3 Deep	LA3	D	3/15/2005	100	3600	30000	8	17000	8500	ND	960	1200	130	34	4300
				10/21/2015	ND	7140	29500	11	24700	10000	ND	530	2830	20	80	4040
30S/11E-13Ja	Skyline 1a (North)	LA42	E	4/17/2024	270	2940	6150	7.5	6340	1900	ND	170	583	360	6	107
30S/11E-13Jb	Skyline 1b (South)	LA43	D	4/17/2024	320	277	724	7.5	420	61	ND	37.9	45	40	2	41

*Chloride concentrations at 13J1 can vary seasonally by 100+ mg/l and are affected by well production and borehole leakage, so fluctuations are expected.

**Water from 18L2 affected by wellbore leakage/upper aquifer influence when inactive

Legend and Detection Limits

Constituent	Description	Practical Quantitation Limit*
HCO3	Bicarbonate Alkalinity in mg/L CaCO3	10.0
Total Hardness	Total Hardness in mg/L CaCO3	--
Cond	Electrical Conductance in µmhos/cm	1.0
pH	pH in pH units	--
TDS	Total Dissolved Solids in mg/L	20.0
Cl	Chloride concentration in mg/L	1.0
NO3-N	Nitrate as Nitrogen concentration in mg/L	0.1
SO4	Sulfate concentration in mg/L	2.0
Ca	Calcium concentration in mg/L	1.0
Mg	Magnesium concentration in mg/L	1.0
K	Potassium concentration in mg/L	1.0
Na	Sodium concentration in mg/L	1.0

*where dilution not required

*where dilution not required

TO: Los Osos Basin Management Committee

FROM: Dan HeimeI, Executive Director

DATE: August 21, 2024

SUBJECT: Item 9b – Hydrogeologic Services for Well Modifications to Wells LA 14 and LA 16 Consultant Recommendation

Recommendations

Receive recommendation and approve the selection of Cleath-Harris Geologists to provide Hydrogeologic and Construction Monitoring consulting services for the modifications to Wells LA 14 and LA 16.

Discussion

In the Calendar Year 2024 Budget, the Basin Management Committee (BMC) approved \$70,000 in funding for groundwater monitoring program improvements. Additionally, in 2024, the Los Osos Community Services District (LOCS D) entered into a cost share agreement with the National Estuary Program (NEP) to access \$75,000 in grant funding for the construction of the well modifications.

The recommended monitoring program improvements for 2024 include well modifications for two abandoned production wells to become dedicated lower Aquifer (Zone E) monitoring wells for the Los Osos Groundwater Basin. The two wells are located in County Right-Of-Way at the two locations: the North end of Palisades Ave. and the Northeast corner of Los Osos Valley Road and Broderson Ave. The proposed modifications include cleaning and inspecting the wells, and placing a small diameter (2.5-inch Schedule 80 PVC) casing liner from 544 to 600ft into the existing well screen opposite to permeable sediments in Zone E.

To procure Hydrogeologic and Construction Monitoring consulting services for the modifications to Wells LA 14 and LA 16, BMC Staff released an RFP on July 25th, 2024 and received one proposal. The BMC Party Staff Representatives, reviewed the proposal and is recommending that the BMC select Cleath-Harris Geologist (CHG) to provide Hydrogeologic and Construction Monitoring consulting services for the modifications to Wells LA 14 and LA 16. CHG is recommended based upon their proposed approach to providing the Hydrogeologic and Construction Monitoring consulting services and experience working in the Los Osos Basin. Additional information regarding CHG's experience and qualifications for Monitoring Well Construction can be found in the attached proposal.

The cost for the Hydrogeologic and Construction Monitoring services and estimated cost for the complete project is less than the amount of funding available. The estimated project cost is shown in the table below:

Task	Budget
Construction	\$70,000
Hydrogeological Design	\$25,000
Administrative Support	\$10,000
Total	\$105,000

Attachments:

CHG Proposal for Hydrogeologic and Construction Monitoring consulting services for the modifications to Wells LA 14 and LA 16



August 5, 2024

Mr. Daniel Heimel, P.E.
Principal Engineer
Confluence Engineering Services
danheimel@ConfluenceES.com

SUBJECT: Proposal for LA14 and LA16 Well Modification Design and Oversight, Los Osos Groundwater Basin.

Dear Mr. Heimel:

Cleath-Harris Geologists (CHG) proposes to perform hydrogeologic services related to the modification of Los Osos Basin Plan groundwater monitoring network wells LA14 (Palisades) and LA16 (LOVR) in Los Osos. This proposal presents firm qualifications, a scope of work (approach), and a fee estimate for the work.

QUALIFICATIONS

CHG has been providing hydrogeologic services to the central coast for 40 years. Our team consists of professional geologists with certifications in hydrogeology and engineering geology. CHG staff have worked extensively in the Los Osos groundwater basin, providing hydrogeologic consulting services to local purveyors, the County of San Luis Obispo, and the Basin Management Committee (BMC). Some of the relevant Los Osos projects we have worked on include the deep monitoring wells constructed in 2019 on Lupine Avenue, the well modification project for LA13 (Ferrell) in 2022, and the deep monitoring wells constructed in 2023 on Skyline Avenue. CHG also has extensive experience with monitoring well design and construction oversight for public agencies throughout San Luis Obispo County.

SCOPE OF WORK

CHG will provide hydrogeologic and construction monitoring services for the design and modification of wells LA14 and LA16. Our approach will be to prepare a simple, performance-based technical specification for the contractor work. We will maintain close communication with our agency partners and with the contractor in order to keep the project on schedule.

On-site observations during well modification construction will be performed by a licensed Professional Geologist or staff geologist working under the direct supervision of the Professional Geologist. A licensed Certified Hydrogeologist will manage the project and provide the final well modification design. The tasks to be performed include the following:



- Review area hydrogeology.
- Prepare written technical specifications, including a preliminary well design diagram, for the well modification construction.
- Prepare a drilling contractor bid sheet and a cost estimate for drilling contractor services.
- Assist with contractor bidding and selection process (e.g., attend on-site pre-bid meeting, respond to contractor questions, review bids).
- Coordinate pre-construction meeting.
- Coordinate activities related to encroachment permit.
- Coordinate service rig mobilization and activities related to well modification.
- Review well modification materials for conformity with technical specifications.
- Provide final well modification designs.
- Observe well screen, filter pack, and annular seal installations.
- Coordinate final inspection.
- Prepare well construction report including description of on-site activities, construction materials documentation, location map, as-built diagram, and a Well Completion Report.

CHG PROJECT STAFFING



Spencer J. Harris, PG, CHG, CEG

Principal Hydrogeologist

Project Role: Project Manager

Spencer Harris brings over 35 years of professional experience, and has managed public agency and water company projects in San Luis Obispo County for over 20 years. He has provided hydrogeologic expertise on numerous studies, public works projects, and management efforts in the Los Osos Groundwater Basin. Spencer will manage the project.



Andrea Berge, PG

Project Geologist

Project Role: Field Supervisor

Andrea Berge has 17 years of professional experience with expertise in well siting, well design and technical specifications, aquifer testing and interpretation, water quality sampling and interpretation, borehole logging, project design, implementation, and reporting, client communication, regulatory compliance, budget control, scheduling, staff assignments, and contractor oversight and inspection. Andrea will provide field management and support for the Project.

FIELD STAFF:

Jim Raney, GIT. Staff Geologist with 10 years of experience

Iason Pitsillides, GIT. Staff Geologist with 3 years of experience

Resumes available upon request.



FEES AND CONDITIONS

CHG proposes to perform the above scope of work on an hourly rate plus expenses basis in accordance with the hourly rates schedule and attached terms of fees and conditions. The estimated cost for hydrogeological and construction monitoring services for the LA14/LA16 well modification project is estimated to be **\$25,000**.

SCHEDULE OF HOURLY RATES

Principal Hydrogeologist	\$195
Senior Hydrogeologist	\$180
Project Geologist	\$165
Environmental Scientist	\$165
GIS Specialist	\$145
Staff Geologist II	\$145
Staff Geologist I	\$130

EXPENSES

Mileage	\$0.67/mile
Other expenses at cost plus 10 percent handling	

AGREEMENT

If the above work scope and fees and conditions are acceptable, this proposal will serve as the basis for agreement.

Respectfully submitted,

CLEATH-HARRIS GEOLOGISTS, INC.

Spencer J. Harris, President

attachment



TERMS OF FEES AND CONDITIONS

1. Invoices will be submitted monthly. The invoice is due and payable upon receipt.
2. In order to defray carrying charges resulting from delayed payments, simple interest at the rate of ten percent (10%) per annum (but not to exceed the maximum rate allowed by law) will be added to the unpaid balance of each invoice. The interest period shall commence 30 days after date of original invoice and shall terminate upon date of payment. Payments will be first credited to interest and then to principle. No interest charge would be added during the initial 30 day period following date of invoice.
3. The fee for services will be based on current hourly rates for specific classifications and expenses. Hourly rates and expenses included in the attached schedule are reevaluated on January 1 and July 1 of each year.
4. Documents including tracings, maps, and other original documents as instruments of service are and shall remain properties of the consultant except where by law or precedent these documents become public property.
5. If any portion of the work is terminated by the client, then the provisions of this Schedule of Fees and Conditions in regard to compensation and payment shall apply insofar as possible to that portion of the work not terminated or abandoned. If said termination occurs prior to completion of any phase of the project, the fee for services performed during such phase shall be based on the consultant's reasonable estimate of the portion of such phase completed prior to said termination, plus a reasonable amount to reimburse consultant for termination costs.
6. If either party becomes involved in litigation arising out of this contract or the performance thereof, the court in such litigation shall award reasonable costs and expenses, including attorney's fees, to the party justly entitled thereto.
7. All of the terms, conditions and provisions hereof shall inure to the benefit of and be binding upon the parties hereto and their respective successors and assigns, provided, however, that no assignment of the contract shall be made without written consent of the parties to the agreement.