

Board of Directors

Walter Fasold, President
Bruce Nix, Vice President
Karina Naughton, Director
Steve Dietrich, Director
Myron Heavin, Director



1550 East Burton Mesa Blvd, Lompoc
California, 93436-2100
805.733.4366
www.mhcsd.org

Loch A. Dreizler General Manager

MISSION HILLS COMMUNITY SERVICES DISTRICT

Regular Meeting Agenda

4:30 PM Wednesday, February 20, 2019

District Board Room – 1550 East Burton Mesa Blvd, Lompoc, CA

Noticed on: February 15, 2019

- 1. 4:30 PM CALL TO ORDER**
- 2. ROLL CALL**
- 3. PLEDGE OF ALLEGIANCE**
- 4. PRESENTATION** (If applicable)
- 5. AGENDA REVIEW** - Move that all Resolutions and Ordinances presented tonight be read in title only and all further reading be waived.
- 6. CONSENT ITEMS** (from previous month) - Staff recommends Directors approve the Consent Items in one motion. However, members of the public may comment on a consent item and Directors may pull a consent item for discussion.
 - A. Minutes** –January 16, 2019 and January 30, 2019
 - B. Activity Reports**
 - C. Financial and Expenditures Reports**
- 7. CORRESPONDENCE** - For information only, generally no Board action is required
 - A. Committee Meeting Updates and District Goals**
 - B. Proposed New Waste Discharge Requirements**
- 8. DISTRICT BUSINESS** – Board action recommended
 - A. Resolution to Approve Participation in Santa Barbara County Integrated Regional Water Management Group**
 - B. Water and Sewer Capacity Charge Study Approval**
 - C. Ordinance 19-84 Introduction Water and wastewater Facility Development Agreement with Summit View Homes**

9. COMMUNITY COMMENTS - Members of the public may address the Board on any items of interest within the subject matter and jurisdiction of the Board that are not on this agenda. Public comments and suggestions are limited to three minutes.

10. COMMUNICATIONS- Board of Directors may ask a question for clarification, make an announcement, or report briefly on recent activities or conference. In addition, Directors may provide a reference to staff or other resources for information, direct staff to place a topic or report on a future committee or regular meeting agenda.

- Distribute General Manager performance evaluation forms
- JPIA Safety Award
- LAFCO Nominations

11. ADJOURNMENT- Regular Board Meetings are held on the third Wednesday of each month beginning at 4:30 PM

Copies of the staff reports, or written materials provided to the Mission Hills for Open Session agenda items may be obtained online at <http://www.mhcsd.org/agenda-and-minutes/> and are also available at the Customer Service Counter of the District Office for public inspection and reproduction during normal business hours. Closed Session items are not available for public review.

In compliance with the Americans with Disabilities Act, if you need special assistance to participate in this meeting or if you need the agenda and/or the documents in the agenda packet provided in an alternative format, please contact Board Secretary at 805.733.4366 at least 48 hours prior to the meeting to ensure that reasonable arrangements can be made. (Agenda Prepared pursuant to Government Code Section 54954.2)



MISSION HILLS COMMUNITY SERVICES DISTRICT

Regular Meeting Minutes

4:30 PM Wednesday January 16, 2019

The Regular Meeting of the Board of Directors of the Mission Hills Community Services District was called to order at 4:30 pm on Wednesday, January 19, 2019 at the District Meeting Room, 1550 East Burton Mesa Boulevard, Lompoc, California.

DIRECTORS PRESENT:

By roll call: Walt Fasold, Bruce Nix, Myron Heavin,
Karina Naughton , and Steve Dietrich

DIRECTORS ABSENT:

none

STAFF PRESENT:

Loch Dreizler, Melissa Crouthers, Rick Young,
and Casey Fowler

OTHERS PRESENT:

Rick Hoffmann and Chuck Beattie

3. PLEDGE OF ALLEGIANCE:

- 4. SPECIAL PRESENTATION:** Rick Hofmann was here to discuss long term well planning perspectives and viable options to improve the District over the next few decades.

- 5. AGENDA REVIEW:** Motion by Director Fasold, second by Director Heavin that all resolutions and ordinances presented tonight be read in title only and all further readings be waived. Unanimous 5-0.

6. CONSENT AGENDA:

Motion by Director Fasold, second by Director Nix to approve the Consent Agenda after review.

Agenda Item 6a.

Consideration of Approval of Minutes

Approved Minutes of the Special Meeting of December 12, 2018 with a small addition in the comments section and Regular Meeting of December 19, 2018

Agenda Item 6b.

Water Reports for December

Agenda Item 6c.

Wastewater Reports for December

Agenda Item 6d.

Administrative Reports for December

Agenda Item 6e. Consideration of the Manager's Project and Financial Reports.

December Profit and Loss Statement, Disbursements Journal, Budget to Actual, Bank Account Summary, and Variations from Projected Income statements were briefly reviewed and discussed.

Agenda Item 6f. General Manager Discussion Items

- Draft Budget Schedule had a change in meeting date for the Tour to February 13 beginning at 9:00 am
- 4th Quarter MHCSD System Performance was discussed
- Guidelines for Elected Officials use of Social Media was explained and stated a policy will be created and brought back to the board for official approval
- Sustainable Groundwater Management Act Update was provided. General Manager Dreizler noted that additional funds will need to be used until the grant has been received towards the end of the project. Board had no objections
- Integrated Regional Water Management was briefly discussed and the General Manager was authorized to participate in this program.

Vote to approve the Calendar of Consent was 5-0

7. CORRESPONDENCE:

Agenda Item 7a. Committee Meeting Updates

General Manager Dreizler gave a brief update regarding the committee meetings that have occurred over the past month and what tentative meetings are scheduled for the next month.

8. CONTINUED BUSINESS: none

9. NEW BUSINESS:

Agenda Item 9a. Wastewater Pond Aeration Upgrade

General Manager Dreizler explained two options for replacing existing surface wastewater pond aeration; One option was to purchase aerations equipment and install with staff, sub-contractors, and consultant assistance. The alternative option was to prepare bid documents using the public bid process as design-build. After discussion, the Board of Directors expressed concerns about purchasing the aeration system and wanted to obtain additional information. Direction was given to ask the supplier some follow up questions, find users of the equipment, visit a site, and inquire about satisfaction and maintenance costs.

Also noted, utilizing a competitive bid process for a "turnkey project" would minimize the impact on staff, and may extend the warranty on equipment. Staff indicated it would return within three months with an update on follow up questions and develop a draft

competitive bid package. There was a motion by Director Heavin and seconded by Director Nix to approve the purchase equipment and labor to install wastewater pond aeration upgrades as a design-build project and allow the General Manager to sign project contracts. The motion failed by 0-5 vote.

Director Heavin made an alternative motion and seconded by Director Nix to have staff pursue a design-build project for aeration upgrades and bring back to the Board of Directors for approval. The motion failed by a 2-3 vote with Fasold, Dietrich, Naughton as no votes. District Board of Directors directed the General Manager to pursue a design-build bid package for aeration upgrades and bring back to the Board after getting additional information and making some inquiries with other sites that have used similar equipment.

Agenda Item 9b. Approve Resolution 19-325 Updating Signatures with Local Agency Investment Fund (LAIF)

It was noted that this resolution is needed to update Board of Directors signatures. Once approved this Resolution will rescind Resolution No. 18-319. Motion by Director Fasold, second by Director Naughton to approve Resolution 19-325 Authorizing investment of District Monies in the Local Agency Investment Fund. Roll call vote was 5-0.

Agenda Item 9c. Approve Resolution 19-326 Updating Signatures with Coasthills Federal Credit Union

It was noted that this resolution is needed to update Board of Directors signatures. Once approved this Resolution will rescind Resolution No. 18-320. Motion by Director Fasold, second by Director Heavin to approve Resolution 19-326 Authorizing Deposit of Monies and a Contract for Banking Services with Coasthills Federal Credit Union. Roll call vote was 5-0.

Agenda Item 9d. Approve Resolution 19-327 Updating Signatures with RNC Genter Capital Management

It was noted that this resolution is needed to update Board of Directors signatures. Once approved this resolution will rescind Resolution No. 18-321. Motion by Directors Fasold, second by Director to approve Resolution 19-327 Authorizing investment of District Monies with RNC Genter Capital Management as Fiduciary and TD Ameritrade as Trustee. Roll call vote was 5-0.

10. COMMUNITY COMMENTS AND SUGGESTIONS: None

11. COMMUNICATIONS:

- Proposed Committee Assignemnts were distributed by General Manager Dreizler. After discussion and review President Fasold assigned the following committee and assignments:

Standing Committees	Committee Members	Alternate
Operations:		
1. Water	Nix, Dietrich	Heavin
2. Wastewater	Fasold, Nix	Naughton
3. Energy	Heavin, Fasold	Nix
Personnel	Nix, Naughton	Fasold
Finance	Naughton, Heavin	Dietrich
Ad-Hoc Committees		
1. Development Agreement	Fasold, Dietrich	Naughton
Proposed Representatives		
1. VAFB IR Program	Dietrich	
2. ACWA/ JPIA	Undesignated	
3. SYRWCD – SGMA	Nix	Loch

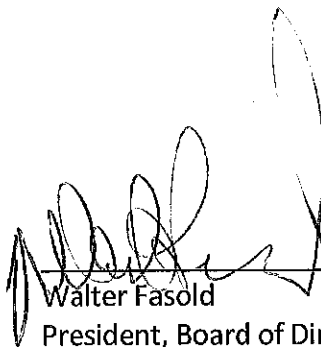
12. ADJOURNMENT:

There being no further business to come before the Board the meeting was adjourned at 9:00 pm.

Respectfully Submitted,

Casey Fowler

Secretary, Board of Directors



Walter Fasold
President, Board of Directors



MISSION HILLS COMMUNITY SERVICES DISTRICT

Special Meeting Minutes

9:00 AM Wednesday January 30, 2019

The Special Meeting of the Board of Directors of the Mission Hills Community Services District was called to order at 9:00 am on Wednesday, January 30, 2019 at the District Meeting Room, 1550 East Burton Mesa Boulevard, Lompoc, California.

DIRECTORS PRESENT:

By roll call: Walt Fasold, Bruce Nix, Myron Heavin,
Karina Naughton , and Steve Dietrich

DIRECTORS ABSENT:

none

STAFF PRESENT:

Loch Dreizler, Melissa Crouthers and Casey
Fowler

OTHERS PRESENT:

Jon Martin, David Rundle, Derek Hansen,
Olivia Marr, Laurie Tamura

3. CONTINUED BUSINESS:

- a. **Changes to NBS Study from September 2018** – General Manager Dreizler gave a brief PowerPoint presentation (see attached) of the differences between the September 2018 meeting and the current proposed NBS Study.
- b. **Brief Overview of responses to Burton Ranch comments** – Additional discussion occurred regarding 3/4" meter and 1" meter, land value adjustment was explained, and the reason behind the video assessment being removed. President Fasold emphasized the significant efforts on the District's part to respond to the Burton Ranch letter from September, 2018. Although the district did not agree with many of the assertions outline in the letter, the District made compromises in the revised NBS Study.
- c. **Discussions** – Burton Ranch stated:
 - in general they accept the capacity study being approved.
 - they need negotiations to move forward that are fair to both parties.
 - the construction schedule is dependent on a discussion that includes credits.
- d. **Steps Forward** – It was suggested we set regular scheduled meetings with Burton Ranch and the District to move forward with the Development Agreement.

4. **PUBLIC COMMENT:** no additional comments were made

5. **ADJOURNMENT:**

There being no further business to come before the Board the meeting was adjourned at 10:05 am.

Respectfully Submitted,

Casey Fowler
Secretary, Board of Directors

Walter Fasold
President, Board of Directors



MISSION HILLS COMMUNITY SERVICES DISTRICT

TO: Board of Directors
FROM: Staff Responsible for Memorandum
DATE: February 20, 2019
SUBJECT: Activity Reports – January 2019

Recommendation: Receive and File

Attachment(s):

1. Administration
2. Water
3. Wastewater
4. Wastewater Treatment Plant Performance



MISSION HILLS COMMUNITY SERVICES DISTRICT

Administrative Report – January 2019

Customer Service / Billing

- Processed 5 New Customer Move Ins
- Processed 231 Autopayments
- Mailed Reminder 283 Notices
- Attended webinar: civic pay (web payments) how to increase e-bills to save postage & future enhancements expected

Accountant

- Facilitated the interview and selection process for the Operator I position. New hire to begin on February 4, 2019. Notified all other applicants of position being filled.
- Attended a training webinar on Water Loss Auditing: Navigating AWWA's Infrastructure Leakage Index given by EFCN.
- Prepared and submitted Quarterly Workers Compensation report, Quarterly Payroll Tax filings and Bi-Annual Santa Ynez Water Conservation District Groundwater Production Statement.
- Prepared and distributed W-2's to employees; prepared and mailed 1099's to eligible vendors.

Administrative Assistant

- Worked with RWQCB regarding updated Waste Discharge Requirements. Various reports, charts and graphs were created to assist in negotiations

General Manager

- Continued NBS Study analysis with committee and special meeting
- Continued communication about Water Model and Cannon Engineering
- Coordinated Lift Station and other electrical engineering estimates
- Continued support for developments
- Coordinated efforts to install fall protection on reservoirs
- Attended staff Sustainable Groundwater Management Act meetings and Board meeting
- Finalized purchase of property at 1199 Purisima



MISSION HILLS COMMUNITY SERVICES DISTRICT

Water Reports January 2019

Distributed: 9,578,723 Gallons

Reservoirs

- Installed Fall Protection

Treatment Plant

- Installed a new chlorine injection quill and replaced analyzer filter

Distribution System

- Repair main break on Via Orilla, break caused by tree roots

Safety

- Attended Asbestos safety class via JPIA at VVCSD
- Completed JPIA Safety Checklist

Recurring

Reservoirs

- **Daily:** Monitor levels via SCADA System
- **Weekly:** Check chlorine levels
- **Quarterly:**
 - Clean and inspect solar panel for backup battery (Jan, Apr, Jul, Oct)
 - Inspected and weed abatement

Treatment Plant

- **Weekly:** Cleaned chlorine injection lines
- **Quarterly:** Remove weeds around shop and filtration plant

Distribution System

- **Weekly:**
 - Collect and reported weekly chlorine and phosphate results
 - Sample "Bac-T" (coliform detection) every Wednesday

Safety

- Inspect Fire Extinguishers
- Attend Weekly Safety Meetings
- Perform Monthly Visual Inspection at Water Treatment Plant and Park



MISSION HILLS COMMUNITY SERVICES DISTRICT

Wastewater Reports – January 2019

Influent

- Daily Average: 276,000 gallons
- Monthly Total: 8,554,992 gallons

Wastewater Treatment Plant

Lift Station

Safety

- Attended Asbestos safety class via JPIA at VVCSD

Recurring

Influent

- Remove headworks trash: 210 lbs.

Wastewater Treatment Plant

- Adjust pond levels for best performance
- Monitor *Dissolved Oxygen* (DO) to optimize aerator placement and run times
- Skim scum and duckweed from Pond #2
- Sample BOD, TN, TSS, Chloride, TDS first week of the month
- Sample Total Nitrogen package the third week of the month
- Control varmint and weed abatement

Lift Station Monitor

- Daily: ventilation,
- Monthly:
- Quarterly: Calibrated Air Quality and Test Detection light (Jan, Apr, Jul, Oct)
- Annually:

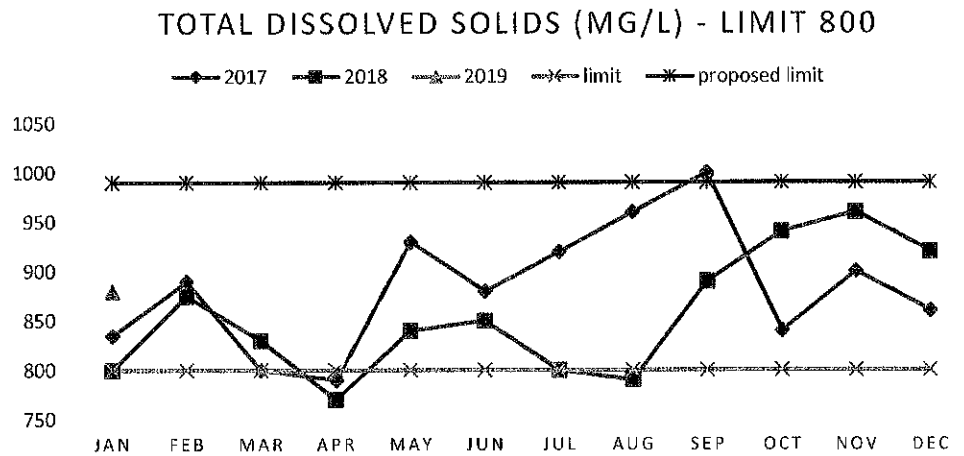
Safety

- Inspect Fire Extinguishers
- Perform Monthly Visual Inspection at Lift Station and Wastewater Treatment Plant

Sewer Plant Performance

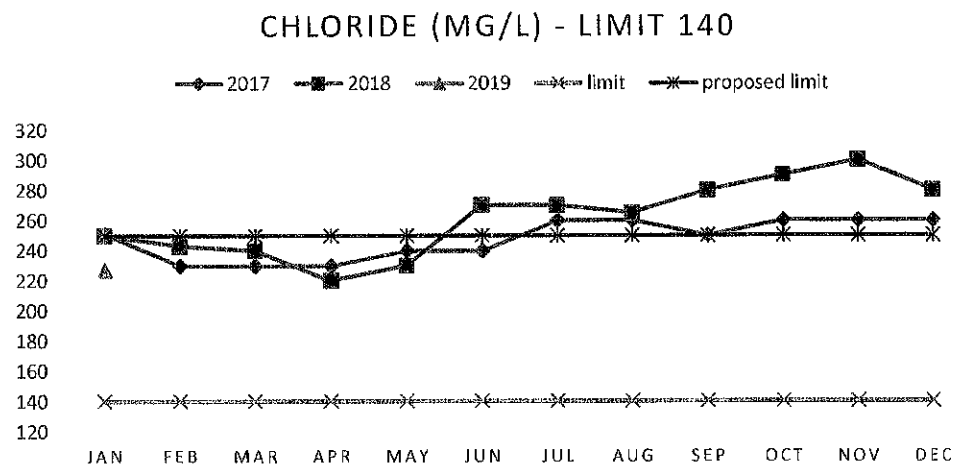
Total Dissolved Solids (mg/L)

	2017	2018	2019
Jan	835	800	880
Feb	890	875	
Mar	800	830	
Apr	790	770	
May	930	840	
Jun	880	850	
Jul	920	800	
Aug	960	790	
Sep	1000	890	
Oct	840	940	
Nov	900	960	
Dec	860	920	



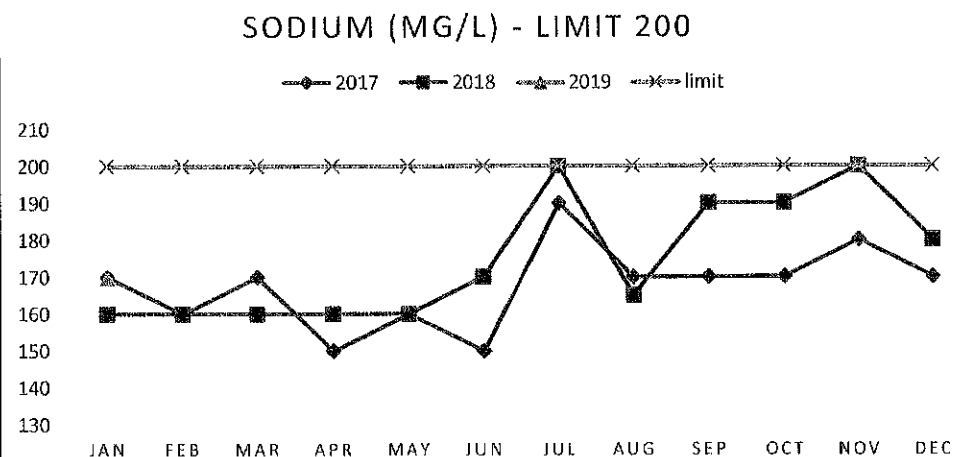
Chlorides (mg/L)

	2017	2018	2019
Jan	251	250	228
Feb	230	243	
Mar	230	240	
Apr	230	220	
May	240	230	
Jun	240	270	
Jul	260	270	
Aug	260	265	
Sep	250	280	
Oct	260	290	
Nov	260	300	
Dec	260	280	



Sodium (mg/L)

	2017	2018	2019
Jan	170	160	170
Feb	160	160	
Mar	170	160	
Apr	150	160	
May	160	160	
Jun	150	170	
Jul	190	200	
Aug	170	165	
Sep	170	190	
Oct	170	190	
Nov	180	200	
Dec	170	180	

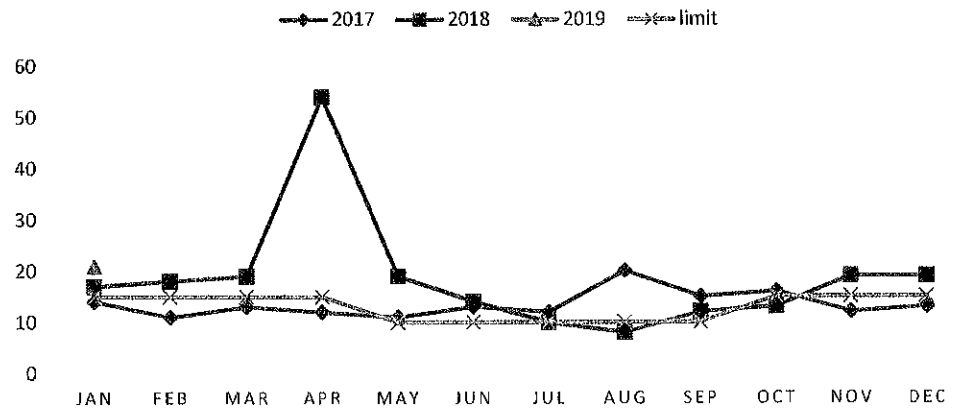


* the proposed limit will not change with the new WDR

Nitrogen (mg/L)

TOTAL NITROGEN (MG/L)- LIMIT 10 (MAY-SEP)/ 15 (OCT-APR)

	2017	2018	2019
Jan	14	17	21
Feb	11	18	
Mar	13	19	
Apr	12	54	
May	11	19	
Jun	13	14	
Jul	12	10	
Aug	20	8	
Sep	15	12	
Oct	16	13	
Nov	12	19	
Dec	13	19	



* the proposed limit will not change with the new WDR

Yearly Average Comparison

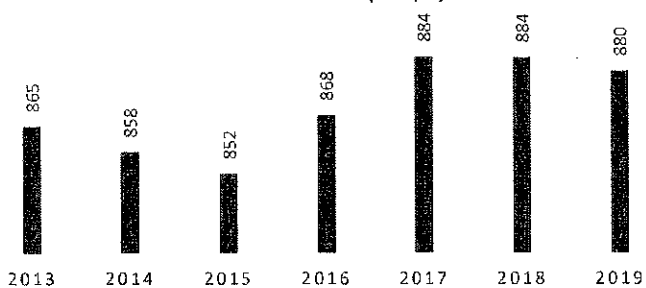
	limit	2013	2014	2015	2016	2017	2018	2019
Total Dissolved Solids	800	865	858	852	868	884	884	880
Chloride (mg/L)	140	256	248	254	257	248	248	228
Sodium (mg/L)	200	154	167	169	175	168	168	170
Total Nitrogen (mg/L)	15/10	14	14	15	18	15	14	21

2018 Total Nitrogen is going to average high based on the one month of high numbers due to pond stabilization after Pond #1 came back in service. Average number without that month would be 14

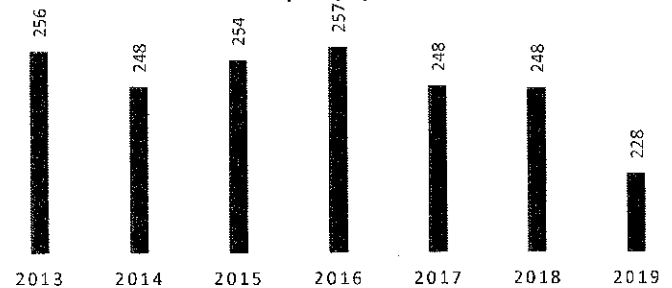
Possible New WDR Limits

Total Dissolved Solids	995
Chloride (mg/L)	250
Sodium (mg/L)	200
Total Nitrogen (mg/L)	15/10

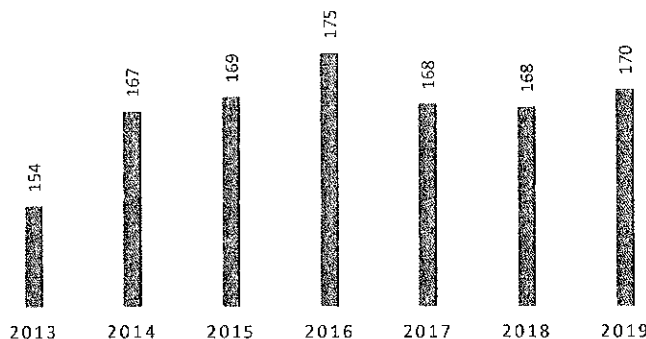
TOTAL DISSOLVED SOLIDS (MG/L) - LIMIT 800



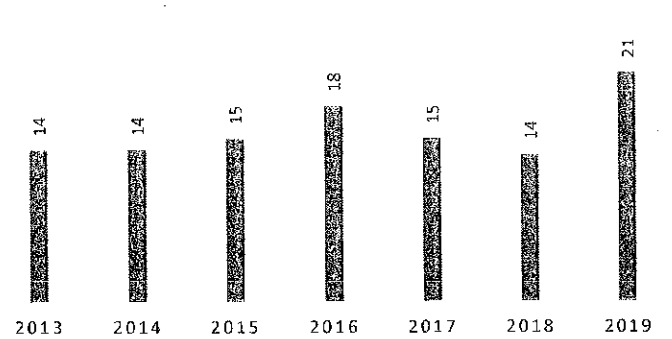
CHLORIDE (MG/L) - LIMIT 140



SODIUM (MG/L) - LIMIT 200



TOTAL NITROGEN (MG/L)- LIMIT 15/10



*2014 Total Nitrogen Sample Protocol was changed



MISSION HILLS COMMUNITY SERVICES DISTRICT

TO: Board of Directors
FROM: Melissa Smith, District Accountant
DATE: February 20, 2019
SUBJECT: Financial and Expenditures Report – January 2019

Recommendation / Proposed Motion

- Recommendation: Receive and File

Attachment(s):

1. Profit and Loss Comparison
2. Disbursements Journal
3. Variation from Projected Income
4. Bank Account Summary
5. Budget to Actual

**Mission Hills Community Services District
Profit & Loss Prev Year Comparison**

January 2019

	Jan 19	Jan 18	\$ Change	Notes
Ordinary Income/Expense				
Income				
4005 • 48 hour notice fees	675.00	970.00	-295.00	
4025 • Construction hydrant meter	0.00	50.00	-50.00	
4045 • Late fees	1,951.26	2,205.64	-254.38	
4050 • Miscellaneous income	100.00	10.00	90.00	
4060 • Reconnection fees	140.00	110.00	30.00	
4075 • Returned check fees	25.00	25.00	0.00	
4085 • Sewer basic charges	69,787.83	64,151.79	5,636.04	
4095 • Street sweeping charges	1,500.84	1,500.84	0.00	
4105 • Water basic charges	53,608.72	51,728.27	1,880.45	
4115 • Water usage charges	17,769.41	33,807.44	-16,038.03	Decrease in Usage
4200 • Discount Revenue	1.55	0.00	1.55	
Total Income	145,559.61	154,558.98	-8,999.37	
Expense				
SUSPENSE	0.00	0.00	0.00	
6000 • Salaries and wages				
6005 • Wage expense	39,193.80	35,016.78	4,177.02	
6010 • Payroll tax expense	3,411.04	12,020.46	-8,609.42	18 PR taxes include old GM
Total 6000 • Salaries and wages	42,604.84	47,037.24	-4,432.40	
6050 • Employee benefits				
6060 • Disability insurance	219.54	194.31	25.23	
6065 • Health insurance	8,454.82	9,651.80	-1,196.98	1 less Staff
6070 • Medical reimbursements	0.00	240.20	-240.20	
6075 • Retirement expenses	1,043.98	4,449.53	-3,405.55	18 includes old GM
6085 • Workers compensation expense	5,111.94	5,487.79	-375.85	
6090 • Vacation & Sick Leave	3,706.94	11,830.65	-8,123.71	18 includes old GM
6095 • Benefit Administration	84.99	82.91	2.08	
Total 6050 • Employee benefits	18,622.21	31,937.19	-13,314.98	
6100 • Director fees	1,375.00	2,000.00	-625.00	
6110 • Depreciation expense	28,233.36	29,536.67	-1,303.31	
6140 • Vehicle expenses				
6150 • Vehicle fuel	802.87	889.61	-86.74	
6155 • Vehicle maintenance	261.70	130.95	130.75	
Total 6140 • Vehicle expenses	1,064.57	1,020.56	44.01	
6170 • Insurance expense				
6180 • Liability insurance	1,979.00	2,177.17	-198.17	
Total 6170 • Insurance expense	1,979.00	2,177.17	-198.17	
6190 • Dues and memberships	116.60	14.95	101.65	
6200 • Office expenses				
6205 • Bank fees and charges	32.00	50.57	-18.57	
6210 • Cash (over) / short	-0.01	-60.62	60.61	
6215 • Cleaning supplies	30.70	0.00	30.70	
6220 • Licenses and fees	0.00	90.00	-90.00	
6225 • Miscellaneous expenses	599.05	0.00	599.05	
6230 • Office supplies	94.76	629.03	-534.27	
6235 • Postage expense	450.00	225.00	225.00	
6245 • Office Equipment	8.30	584.75	-576.45	
6250 • Copier Lease	188.87	0.00	188.87	

Mission Hills Community Services District
Profit & Loss Prev Year Comparison
January 2019

	Jan 19	Jan 18	\$ Change	Notes
Total 6200 • Office expenses	1,403.67	1,518.73	-115.06	
6300 • Operating supplies and expenses				
6310 • Miscellaneous supplies	87.78	0.00	87.78	
6325 • Portable equipment	1,241.77	0.00	1,241.77	DO Meter
6330 • Shop supplies	86.09	447.89	-361.80	
6335 • Small tools and appliances	35.92	222.14	-186.22	
6340 • Chemicals				
6344 • Chlorine	835.39	0.00	835.39	
6345 • Corrosion inhibitor	4,994.86	6,659.53	-1,664.67	
Total 6340 • Chemicals	5,830.25	6,659.53	-829.28	
Total 6300 • Operating supplies and expenses	7,281.81	7,329.56	-47.75	
6350 • Safety expenses				
6355 • Fire extinguishers	285.00	568.21	-283.21	Annual Inspection
6360 • Protective Clothing/Uniforms	207.99	232.13	-24.14	
6365 • Safety equipment	113.89	63.30	50.59	
6375 • Other safety expenses	0.00	0.00	0.00	
Total 6350 • Safety expenses	606.88	863.64	-256.76	
6410 • Contractual services				
6420 • Cleaning service	200.00	200.00	0.00	
6425 • Office equip maintenance	99.76	0.00	99.76	
6430 • Internet access	128.16	126.01	2.15	
6435 • Landscaping services	241.25	267.18	-25.93	
6445 • Security expense	112.50	112.50	0.00	
6453 • Software Subscriptions	14.99	0.00	14.99	
6455 • Street sweeping services	1,286.00	1,286.00	0.00	
6466 • Emissions Testing	700.00	1,012.35	-312.35	Well 6 - 1st QTR
Total 6410 • Contractual services	2,782.66	3,004.04	-221.38	
6475 • Professional services				
6476 • Financial Management Fees	0.00	2,840.00	-2,840.00	
6485 • Engineering services	2,685.50	0.00	2,685.50	Capacity Charge, Water Model
6490 • Legal services	995.09	767.34	227.75	
6495 • Human Resources services	0.00	33.50	-33.50	
Total 6475 • Professional services	3,680.59	3,640.84	39.75	
6500 • Printing and publication	0.00	135.94	-135.94	
6505 • Equipment lease and rentals	560.75	560.75	0.00	
6525 • Research and monitoring				
6530 • Lab & Testing Expenses	364.09	128.92	235.17	
6535 • Monitoring expense	1,409.00	1,750.00	-341.00	
Total 6525 • Research and monitoring	1,773.09	1,878.92	-105.83	
6600 • Travel and meetings				
6610 • Meals	214.97	186.09	28.88	
6620 • Staff training	764.55	1,150.61	-386.06	
Total 6600 • Travel and meetings	979.52	1,336.70	-357.18	
6650 • Utilities				
6655 • Cell phones	171.58	171.40	0.18	
6660 • Dump fees	0.00	770.87	-770.87	
6665 • Electrical	9,132.28	7,132.51	1,999.77	
6670 • Natural gas	865.44	8,937.37	-8,071.93	
6685 • Telephone	293.98	289.71	4.27	

Mission Hills Community Services District
Profit & Loss Prev Year Comparison
January 2019

	Jan 19	Jan 18	\$ Change	Notes
6691 · Trash & Recycling	214.87	46.86	168.01	
Total 6650 · Utilities	10,678.15	17,348.72	-6,670.57	
6700 · Government fees and charges	50,974.40	7,187.43	43,786.97	SGMA Cost Share Deposit
6720 · Repairs and maintenance				
6730 · Distribution expense	205.55	2,346.42	-2,140.87	
6740 · Hydrants	0.00	35.50	-35.50	
6745 · Lift station expenses	168.13	13.67	154.46	
6750 · Collection expense	613.11	2,618.64	-2,005.53	
6785 · Wells and pumping	1,147.24	873.17	274.07	Well 6 - PM Services
6790 · Waste water plant	237.69	10,201.18	-9,963.49	
Total 6720 · Repairs and maintenance	2,371.72	16,088.58	-13,716.86	
Total Expense	177,088.82	174,617.63	2,471.19	
Net Ordinary Income	-31,529.21	-20,058.65	-11,470.56	
Other Income/Expense				
Other Income				
7006 · Market Appreciation/(Depr)	2,257.85	-19,085.58	21,343.43	
7010 · Interest income	758.51	218.21	540.30	
7020 · Other income	0.00	2.50	-2.50	
Total Other Income	3,016.36	-18,864.87	21,881.23	
Net Other Income	3,016.36	-18,864.87	21,881.23	
Net Income	-28,512.85	-38,923.52	10,410.67	

Mission Hills Community Services District
Disbursements Journal

January 2019

Date	Num	Name	Amount	Notes
1060 - CHCU - General 4163				
01/01/2019		Tierzero	-90.00	
01/09/2019	30106	American Industrial Supply	-13.95	
01/09/2019	30107	Bremer Auto Parts	-82.00	
01/09/2019	30108	Carmel & Naccasha LLP	-91.35	
01/09/2019	30109	Comcast Cablevision	-128.16	
01/09/2019	30110	County of Santa Barbara - Planning & Dev	-140.49	
01/09/2019	30111	De Lage Landen Financial Services, Inc	-169.17	
01/09/2019	30112	Earth Systems	-2,400.00	Purissima Rd - Enviromental Report
01/09/2019	30113	East Mesa Oaks HOA	-57.09	
01/09/2019	30114	Energy Link	-761.50	
01/09/2019	30115	Ferguson Enterprises, Inc.	-2,771.23	Distribution Parts
01/09/2019	30116	FIA/Bank of America	-1,776.73	
01/09/2019	30117	Gas Company	-934.66	
01/09/2019	30118	Home Depot	-83.90	
01/09/2019	30119	Jon's Lawn Mowing	-276.57	
01/09/2019	30120	NBS	-2,084.09	Capacity Charge Study
01/09/2019	30121	Office Depot Credit Plan	-78.17	
01/09/2019	30122	Oilfield Environmental & Compliance, Inc.	-2,478.97	R&M - Well 6
01/09/2019	30123	PG&E	-2,721.17	
01/09/2019	30124	Santa Maria Famcon Pipe Supply	-1,475.99	Distribution Parts
01/09/2019	30125	Staples	-15.17	
01/09/2019	30126	State Water Resources Control Board	-6,948.50	Water System Annual Fee
01/09/2019	30127	Surface Pumps Inc	-10,031.67	R&M - Lift Station
01/09/2019	30128	Underground Service Alert of SC	-6.60	
01/09/2019	30129	Waste Management	-214.87	
01/09/2019	30130	Wastewater Technology Trainers	-850.00	Staff Training
01/09/2019		VOID	0.00	
01/09/2019	30131	REFUND	-10.13	
01/09/2019	30132	REFUND	-14.18	
01/10/2019		First American Title Company	-185,375.00	Purissima Rd Purchase
01/16/2019	30133	ACWA/JPIA *Medical Insurance	-8,732.46	
01/16/2019	30134	American Industrial Supply	-200.04	
01/16/2019	30135	County of Santa Barbara- Gen Svcs	-1,287.43	
01/16/2019	30136	Frontier Communications	-79.76	
01/16/2019	30137	Hopkins Technical Products Inc.	-1,614.50	Chlorine Pump Replacement Parts
01/16/2019	30138	Lompoc Fire Equipment Service Inc	-285.00	
01/16/2019	30139	O'Conner Pest Control	-50.00	
01/16/2019	30140	PG&E	-6,383.01	
01/16/2019	30141	Santa Ynez River Water Conserv Dist	-7,531.05	Water Production B-Annual Fees
01/16/2019	30142	Smith Alarms & Electronics, Inc.	-112.50	
01/16/2019	30143	Springbrook National User Group	-650.00	Staff Training
01/16/2019	30144	TD Ameritrade Trust Company	-3,859.61	
01/16/2019	30145	Verizon	-171.50	
01/23/2019	30146	ACWA Joint Powers Insurance Authority	-5,111.94	
01/23/2019	30147	Advantage Technical Services, Inc.	-5,470.00	Reservoirs - Fall Protection System
01/23/2019	30148	Cannon	-1,580.00	Water Model Update
01/23/2019	30149	East Mesa Oaks HOA	-52.36	
01/23/2019	30150	Energy Link	-196.64	
01/23/2019	30151	Frontier Communications	-124.22	
01/23/2019	30152	Hach Company	-1,005.86	DO Meter
01/23/2019	30153	JB Dewar Inc	-30.74	
01/23/2019	30154	Oilfield Environmental & Compliance, Inc.	-769.00	
01/23/2019	30155	PG&E	-12.52	
01/23/2019	30156	SP Maintenance Services, Inc.	-1,286.00	
01/23/2019	30157	U. S. Postal Service	-225.00	
01/23/2019	30158	STAFF TRAINING	-379.50	

**Mission Hills Community Services District
Disbursements Journal**

January 2019

Date	Num	Name	Amount	Notes
01/28/2019		TASC	-84.99	
01/29/2019	30159	American Industrial Supply	-56.93	
01/29/2019	30160	Aurora Property Services	-500.00	
01/29/2019	30161	Brenntag Pacific, Inc	-5,830.25	Chlorine & Aquapure
01/29/2019	30162	Cash (petty cash)	-96.40	
01/29/2019	30163	CSMFO	-110.00	
01/29/2019	30164	De Lage Landen Financial Services, Inc	-188.87	
01/29/2019	30165	FIA/Bank of America	-1,675.21	
01/29/2019	30166	Gas Company	-676.67	
01/29/2019	30167	Jon's Lawn Mowing	-241.25	
01/29/2019	30168	Juana Rodriguez	-200.00	
01/29/2019	30169	Prominent Systems, Inc.	-23,195.72	Re-Issue Ck 30084
01/29/2019	30170	Pua's	-200.00	
01/29/2019	30171	Santa Barbara Co Air Pollution Control Dt	-443.35	
01/29/2019	30172	TD Ameritrade Trust Company	-4,207.40	
01/29/2019		Coast Hills Credit Union	-32.00	Stop Payment Ck 30084 - Lost in Mail
Total 1060 · CHCU - General 4163			-307,020.99	
1070 · CHCU - Payroll 4155				
01/07/2019		AFLAC	-210.22	
01/08/2019		QuickBooks Payroll Service	-2,358.74	
01/09/2019		PAYROLL	-14,316.08	
01/11/2019	E-pay	EDD	-838.53	
01/11/2019	E-pay	IRS USATAXPYMT	-3,379.40	
01/11/2019		TASC	-274.99	
01/23/2019		PAYROLL	-16,175.71	
01/25/2019	E-pay	EDD	-999.49	
01/25/2019	E-pay	IRS USATAXPYMT	-3,916.70	
01/25/2019		TASC	-274.99	
Total 1070 · CHCU - Payroll 4155			-42,744.85	
TOTAL			-349,765.84	

Variation From Projected Income

Fiscal Year Ending 6-30-2019

Billing Month	Water			Wastewater			Total (Loss) / Gain	Current Year Units Sold	Last Year Units Sold	5 Year Average Units Sold
	Projected Income*	Actual Income	Variation	Projected Income	Actual Income	Variation				
Jul-18	\$ 104,390	\$ 100,889	\$ (3,501)	\$ 68,151	\$ 69,952	\$ 1,801	\$ (1,700)	20,602	22,680	22,472
Aug-18	\$ 105,640	\$ 110,443	\$ 4,803	\$ 68,151	\$ 69,456	\$ 1,305	\$ 6,107	25,069	20,431	23,038
Sep-18	\$ 105,696	\$ 106,862	\$ 1,166	\$ 68,151	\$ 69,748	\$ 1,597	\$ 2,763	23,294	24,793	23,063
Oct-18	\$ 102,624	\$ 96,080	\$ (6,545)	\$ 68,151	\$ 69,622	\$ 1,471	\$ (5,074)	18,745	20,161	21,673
Nov-18	\$ 100,373	\$ 101,528	\$ 1,156	\$ 68,151	\$ 70,194	\$ 2,043	\$ 3,199	20,683	22,155	20,654
Dec-18	\$ 88,324	\$ 90,523	\$ 2,199	\$ 68,151	\$ 69,336	\$ 1,185	\$ 3,384	16,302	17,504	15,201
Jan-19	\$ 83,227	\$ 71,378	\$ (11,849)	\$ 68,151	\$ 69,788	\$ 1,637	\$ (10,212)	7,808	15,488	12,895
Feb-19	\$ 83,070			\$ 68,151			\$ -		15,229	12,824
Mar-19	\$ 79,595			\$ 68,151			\$ -		15,094	11,251
Apr-19	\$ 83,220			\$ 68,151			\$ -		10,638	12,892
May-19	\$ 90,413			\$ 68,151			\$ -		15,512	16,147
Jun-19	\$ 101,282			\$ 68,151			\$ -		22,451	21,066
Total	\$ 1,127,855	\$ 677,703	\$ (12,571)	\$ 817,812	\$ 488,095	\$ 11,038	\$ (1,534)	132,503	222,136	213,175

YTD avg 100% 60% 100% 60%

Year to Date Monthly Averages

18,929 19,805 18,977

Yearly Average 18,511 17,765

FY 2018/19 Budget estimates 213,264 annual billable pumping units. Billing is for prior month's water usage.

* Projected Income is calculated by using current year and previous 5 year average monthly units sold.

Units Sold by Calendar Year (1 Unit = 1 HCF = 748 Gallons)

FYE 2014	FYE 2015	FYE 2016	FYE 2017	FYE 2018	FYE 2019
251,101	211,115	189,815	191,706	222,136	--

Bank Account Summary

Year to date
\$69,652

	11/30/2018	12/31/2018	1/31/2019
LAIF	\$101,233	\$101,233	\$101,845
TD AMERITRADE/RNC GENTER	\$2,264,856	\$2,279,066	\$2,281,775
Coast Hills FCU			
Checking	\$264,274	\$273,301	\$161,015
Investment Checking	\$254,098	\$254,238	\$254,378
Savings	\$201	\$201	\$201
Payroll	\$123,905	\$133,510	\$93,187
ACH (Sweep Account)	\$8,650	\$9,413	\$5,104
Total Coast Hill FCU	\$651,128	\$670,665	\$513,886
Balance	\$3,017,216	\$3,050,964	\$2,897,505
Monthly Change	\$61,528	\$33,748	-\$153,459

Mission Hills Community Services District
Budget to Actual Comparison
JUL 18 - JAN 19

Income	Budgeted Fiscal Year 18-19	Prorated Budget JUL 18 - JAN 19	Actual JUL 18 - JAN 19	Difference	Remainder Budgeted Amount	% of Budget
Late Fees/Charges	\$ 33,600	\$ 19,600	\$ 20,548	\$ 948	\$ 13,052	58%
Water Service	\$ 1,127,855	\$ 657,915	\$ 678,054	\$ 20,138	\$ 449,801	61%
Sewer Service	\$ 817,812	\$ 477,057	\$ 488,400	\$ 11,343	\$ 329,412	60%
Street Sweeping	\$ 18,058	\$ 10,534	\$ 10,540	\$ 7	\$ 7,518	60%
	\$ 1,997,325	\$ 1,165,106	\$ 1,197,542	\$ 32,436	\$ 799,783	58%

Expense	Budgeted Fiscal Year 18-19	Prorated Budget JUL 18 - JAN 19	Actual JUL 18 - JAN 19	Difference	Remainder Budgeted Amount	% of Budget
Salaries & Wages	\$ 615,872	\$ 359,259	\$ 343,535	\$ 15,724	\$ 272,337	56%
Employee Benefits & Payroll taxes	\$ 241,385	\$ 140,808	\$ 127,832	\$ 12,976	\$ 113,553	53%
Director Fees	\$ 15,000	\$ 8,750	\$ 8,750	\$ -	\$ 6,250	58%
Depreciation	\$ 350,500	\$ 204,458	\$ 195,898	\$ 8,560	\$ 154,602	56%
Vehicle Expense	\$ 26,500	\$ 15,458	\$ 12,844	\$ 2,614	\$ 13,656	48%
Insurance	\$ 45,700	\$ 26,658	\$ 14,448	\$ 12,211	\$ 31,252	32%
Memberships	\$ 10,870	\$ 6,341	\$ 9,986	\$ (3,645)	\$ 884	92%
Office Expenses	\$ 17,385	\$ 10,141	\$ 15,125	\$ (4,984)	\$ 2,260	87%
Operating Supplies	\$ 11,100	\$ 6,475	\$ 6,646	\$ (171)	\$ 4,454	60%
Chemicals	\$ 60,600	\$ 35,350	\$ 24,988	\$ 10,362	\$ 35,612	41%
Safety	\$ 7,050	\$ 4,113	\$ 2,698	\$ 1,415	\$ 4,352	38%
Contractual Services	\$ 40,972	\$ 23,900	\$ 24,524	\$ (624)	\$ 16,448	60%
Professional Services	\$ 56,700	\$ 33,075	\$ 72,116	\$ (39,041)	\$ (15,416)	127%
Printing & Publication	\$ 5,000	\$ 2,917	\$ 3,588	\$ (671)	\$ 1,412	72%
Equipment Lease	\$ 6,729	\$ 3,925	\$ 3,925	\$ -	\$ 2,804	58%
Monitoring	\$ 20,500	\$ 11,958	\$ 9,724	\$ 2,234	\$ 10,776	47%
Travel/Meetings/Meals	\$ 26,500	\$ 15,458	\$ 15,493	\$ (34)	\$ 11,007	58%
Utilities	\$ 139,450	\$ 81,346	\$ 106,111	\$ (24,765)	\$ 33,339	76%
Government Fees	\$ 67,610	\$ 39,439	\$ 73,614	\$ (34,174)	\$ (6,004)	109%
Repairs & Maintenance	\$ 188,000	\$ 109,667	\$ 111,717	\$ (2,051)	\$ 76,283	59%
Misc. - Writeoffs	\$ 12,250	\$ 7,146	\$ 4,681	\$ 2,465	\$ 7,569	38%
	\$ 1,965,673	\$ 1,146,643	\$ 1,188,240	\$ (41,598)	\$ 777,433	60%

Resolution 15-229 - Budget Preparation and Approval Process

C.3. - Whenever a budgeted expense line item has circumstances where a projected expense exceeds a 5% variance of the total budget, the GM will be required to seek a super majority approval from the BoD before the expense is finalized, when possible.

$$5\% = \$ 98,283.65$$



MISSION HILLS COMMUNITY SERVICES DISTRICT

MEMORANDUM

TO: Board of Directors

FROM: Loch A. Dreizler, General Manager

DATE: February 20, 2019

SUBJECT: Committee Meetings and Goals

Recommendation / Proposed Motion

- Recommendation to review committee meetings action items and future meetings

Policy Reference

- Top Five outstanding issues were included in a Board Memorandum from January 2018. To address these outstanding issues committee meetings are scheduled to offer a process to establish priorities and goals.
- Goals for Fiscal Year 2018/2019 were established at the August 2018 Board Meeting and included in this memorandum.

Budget Resources

- None

Alternatives Considered

- None

Background

At the March 2018 meeting, Staff proposed dates for future committee meetings to establish more efficiency in committee preparation while balancing operations and maintenance of facilities.

Discussion

This memorandum includes a summary of committee meetings to allow Board members that are not directly involved with individual committees to get brief updates. An additional goal, if appropriate, is to bring separate Board Memorandums with associated action items with committee recommendations to the full Board.

2018 Committee Assignments (modified January 2019)

Standing Committees	Committee Members	Alternate
Operations		
1) Water (Reservoir, Wells, Treatment, Distribution)	Dietrich & Nix	Heavin
2) Wastewater (WDR, Aerators)	Fasold & Nix	Naughton
3) Energy (Generators and Solar)	Heavin & Fasold	Nix
Personnel	Nix & Naughton	Fasold
Finance	Naughton & Heavin	Dietrich
Ad-Hoc Committees	Committee Members	Alternate
4) Development Agreements	Fasold, Dietrich	Naughton
Representatives	Committee Members	
5) VAFB IR Programs	Dietrich	
6) ACWA/JPIA	Undesignated	
7) Santa Ynez Water Conserve. Dist. -Sustainable Groundwater Mgmt. Act	Nix, Dreizler	

January Standing Committee and Ad-Hoc Committee Meeting Summary

Ad Hoc Development

January 4 - NBS Study analysis

January 15 – NBS Study analysis

January 28 - NBS Study analysis

Wastewater (WDR)

January 23rd - Email exchange, question and answers about aeration with Triple Point

January 29 – WDR discussion Time Schedule Order (TSO) and Pond Optimization discussion

Attachment(s):

1. Goals for FY 18/19 - Original Document.
2. Additional Information will be distributed at Meeting



Goals - FY 18-19

Wastewater

Wastewater Regulatory

- Successfully negotiate new WDR with limits that are achievable
 - A letter requesting that we maintain our current Nitrogen Levels at 10/15 mg/L and a quarterly average for Chloride Levels at 300 mg/L for 5 years was sent on June 19, 2018. We expect to begin implementing our new WDR by June 30, 2019. We don't foresee exceeding levels for Total Dissolved Solids, Sodium, Biochemical Oxygen Demand or Total Suspended Solids with the new WDRs.

Wastewater Operations and Maintenance

- Establish a pond optimization control plan which reduces Nitrogen levels from 2017 average annual levels of 14/14 to average annual levels of 10/15 by June 30, 2019.

Wastewater Miscellaneous

- Establish alternate cost to treat Burton Ranch effluent via City of Lompoc by September 28, 2018. Ask in person on at meeting and via email, VVCSD paid
- Complete NITROX study and obtain capital cost and annual operating cost estimates by October 30, 2018

Water

- Develop and execute a water system pressure / surge protection plan to reduce water main breaks, by October 31, 2018 and implement plan by June 30, 2020.

Generator Emergencies

- Determine backup requirements and phased approach for critical equipment by July 2018.
- Establish a timeline to implement in Phases by July 2018.
- Implement Phase 1 as outlined with Board of Directors by June 30, 2019.

Personnel Development

- Establish performance goals and personal development plans for each district employee by September 2018.
- Establish specific operator license plan to provide backup support by October 2018.
- Perform effective annual performance reviews with all employees by June 30, 2019.

New developments

- Effectively support plan content and approval to support district needs for the following:
 - Summit View – Starting, BOC approved GM signing DA, Development Agreement via Ordinance
 - Burton Ranch – NBS Study, Development Agreement,
 - Supportive Housing – Tracking Progress

Basic goals

- **Safety** - establish proactive safety program
- **Budget** - meet or exceed all budget goals regarding revenue and expenses
- **GM Job Description** - All duties as described



MISSION HILLS COMMUNITY SERVICES DISTRICT

MEMORANDUM

TO: Board of Directors
FROM: Loch A. Dreizler, General Manager
Casey Fowler, Administrative Assistant
DATE: February 15, 2019
SUBJECT: Review the Proposed New Waste Discharge Requirements

Recommendation / Proposed Motion

- Recommendation: Review the proposed new Waste Discharge Requirements and verify there is no Board of Director's public comment to be made to the Regional Water Quality Control Board during the 30-day public comment period.
- Staff recommends approval of the order without additional comment. The proposed Waste Discharge Requirements offer the District an excellent opportunity to stay in compliance with the 5-year Time Schedule Order (TSO) which will be approved by the RWQCB Commissioner upon approval of the new WDR.
- The proposed new Waste Discharge Requirement will go to the Regional Water Quality Control Board for approval on May 9 - 10, 2019.

Policy Reference

Mission Hills Community Services District is required to comply with the State of California's Regional Water Quality Control Board's Adoption of Waste Discharge Requirements, Order No. R3-2019-0042 and Monitoring and Reporting Program No. R3-2019-0042 for our Wastewater Treatment System.

Budget Resource

There are undetermined costs associated with compliance that will be further defined as requirements and project are implemented.

Alternatives Considered

None

Chronology of Notice of Violation

- December 2010 – Received Notice of Violation (NOV)
- Feb 2011 - Review and implement pond management strategies
- May 2011 - Replace Pond 2 liner
- October 2011 - Install the down-gradient monitoring well
- September 2013 - Develop and adopt self-regenerating water softener ordinance
- October 2016 - Evaluate nitrogen control actions and testing protocols
- June 19, 2017 - MHCSO submitted information documenting implementation of management actions necessary to address the conditions of the Notice of Violation.
- August 30, 2017 - the Central Coast Water Board sent a letter to MHCSO confirming that they had met the conditions of the 2010 Notice of Violation

Background of proposed Waste Discharge Requirements

After meeting the 2010 Notice of Violations the Mission Hills CSD began the process with the Regional Water Quality Control Board to focus on developing an updated Waste Discharge Requirement.

MHCSO provided a groundwater analysis to Regional Water Quality Control Board that confirmed the MHCSO wastewater discharge percolates to the Lompoc Plain sub-basin, not the Lompoc Upland sub-basin -this enhances the district's ability to comply. In July 2014, MHCSO submitted an initial hydrogeologic evaluation prepared by Rick Hoffman and Associates for the groundwater basins underlying the MHCSO wastewater treatment and disposal system.

In April 2016, MHCSO submitted an addendum to the July 2014 hydrogeologic evaluation requesting that the Regional Water Quality Control Board to "modify its effluent discharge specifications for wastewater discharged based on objectives for the Lompoc Plain Basin."

Discussion

The proposed new Waste Discharge Requirement will go to the Regional Water Quality Control Board for approval on May 9 - 10, 2019. The draft proposed Waste Discharge Requirements includes:

- Groundwater quality objectives for the Lompoc Plain sub-basin instead of the Lompoc Upland sub-basin;
- Revised effluent limits in alignment with the groundwater quality objectives for the Lompoc Plain sub-basin that will significantly reduce total dissolved solids and chloride violations;
- Revised monitoring and reporting requirements.

Comparison of Existing, Proposed and Time Scheduled Order (TSO) Limits

		Existing Order No. 97-35		Proposed Order R3-2019-0042		Time Scheduled Order (TSO) through February 2025	
Constituents	Units	30 – Day Average	Sample Maximum	25 – Month Rolling Median	Sample Maximum	25 – Month Rolling Median	Sample Maximum
Chloride	mg/l	140	250	250	300	300	330
Sodium	mg/l	200	300	200	250	200	250
Total Dissolved Solids	mg/l	800	1050	990	1250	990	1250
Constituents	Units	30 – Day Average	Sample Maximum	30 – Day Average	Sample Maximum	30 – Day Average	Sample Maximum
Total Nitrogen	mg/l	10 (May-Sep)	20 (May-Sep)	10 (May-Sep)	20 (May-Sep)	15 (May-Sep)	20 (May-Sep)
		15 (Oct-Apr)	30 (Oct-Apr)	15 (Oct-Apr)	30 (Oct-Apr)	20 (Oct-Apr)	30 (Oct-Apr)
Groundwater Limits	mg/l	8	—	2	—	2	—

https://www.waterboards.ca.gov/centralcoast/board/decisions/tentative_orders/

February 20, 2019

Mission Hills CSD



Central Coast Regional Water Quality Control Board

NOTICE OF PUBLIC MEETING, CONSIDERATION OF ADOPTION, AND OPPORTUNITY TO COMMENT

**MISSION HILLS COMMUNITY SERVICES DISTRICT, SANTA BARBARA COUNTY
PROPOSED WASTE DISCHARGE REQUIREMENTS ORDER NO. R3-2019-0042**

NOTICE IS HEREBY GIVEN that the Central Coast Regional Water Quality Control Board (Central Coast Water Board) will accept comments on the proposed Waste Discharge Requirements Order No. R3-2019-0042 (Order) and Monitoring and Reporting Program No. R3-2019-0042. You may download the draft Order, Staff Report, and associated attachments from our website at the following address:

http://www.waterboards.ca.gov/centralcoast/board_decisions/tentative_orders

The proposed Order provides waste discharge requirements for the discharge of waste from Mission Hills Community Services District.

NOTICE IS HEREBY GIVEN that the Central Coast Water Board will hold a public meeting to consider adoption of the proposed Order and Monitoring and Reporting Program on:

May 9-10, 2019

Central Coast Water Board Offices
895 Aerovista Place - Suite 101
San Luis Obispo, CA 93401

The final meeting agenda and Staff Report will be available on April 29, 2019 at:
https://www.waterboards.ca.gov/centralcoast/board_info/agendas/2019/2019_agendas.html

SUBMISSION OF WRITTEN COMMENTS. Persons interested in the providing comments on the proposed updates to the Order are encouraged to submit comments electronically. Comment letters must be received by 5:00 p.m. on March 11, 2019. Comment letters received after that deadline will not be accepted unless the Central Coast Water Board determines otherwise. Send comments by email (must be no more than 15 megabytes) to:

Howard Kolb, Water Resource Control Engineer
howard.kolb@waterboards.ca.gov

or by mail to

Howard Kolb, Water Resource Control Engineer
Central Coast Water Board
895 Aerovista Place, Suite 101
San Luis Obispo, CA 93401

DR. JEAN-PIERRE WOLFF, CHAIR | JOHN M. ROBERTSON, EXECUTIVE OFFICER

895 Aerovista Place, Suite 101, San Luis Obispo, CA 93401 | www.waterboards.ca.gov/centralcoast

Please also indicate in the subject line, "**Comment Letter – Mission Hills WDR Update**"

Please direct any questions about this notice to Howard Kolb, Water Resource Control Engineer at the Central Coast Water Board, at (805) 549-3332 or by email at howard.kolb@waterboards.ca.gov.

FUTURE NOTICES

The Central Coast Water Board will hold the public meeting at the time and place noted above. Any change in the date, time, and place of the Board Meeting will be noticed through the e-mail distribution list. Any person desiring to receive future notices concerning changes to the notice of public meeting and consideration of adoption, must sign up for the e-mail distribution list. To sign up for the e-mail distribution email list, access the Region 3 E-mail Subscription form, select the box for 'Board Meeting Agenda', and provide the required information. The subscription form is located at:

https://www.waterboards.ca.gov/resources/email_subscriptions/reg3_subscribe.html

\\ca.epa.local\RB\RB3\Shared\WDR\WDR Facilities\Santa Barbara Co\Mission Hills CSD WWTP\Draft MHCSD Cover Letter R3-2019-0042 2-6-2019.docx

STATE OF CALIFORNIA
REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL COAST REGION

DRAFT STAFF REPORT FOR REGULAR MEETING OF MAY 9-10, 2019
Prepared on February 3, 2019

ITEM NUMBER: XX

SUBJECT: Revision of Waste Discharge Requirements, Mission Hills
Community Services District Wastewater Treatment System,
Santa Barbara County, Order No. R3-2019-0042

STAFF CONTACT: Howard Kolb 805/549-3332 or howard.kolb@waterboards.ca.gov

KEY INFORMATION:

Facility Name: Mission Hills Community Service District
Facility Owner: Mission Hills Community Service District
Location: 1550 East Burton Mesa Boulevard, Lompoc, California 93436,
Santa Barbara County
Type of Discharge: Domestic Wastewater
Design Capacity: 400,000 gallons per day (gpd)
Current Capacity: 400,000 gpd
Disposal Capacity: 570,000 gpd
Treatment: A headworks facility, two lined facultative lagoons (Pond 1 with
baffles and Pond 2 without baffles) with surface aeration and
mixing
Disposal: Eight unlined disposal ponds used for effluent polishing and
evaporation/percolation (La Purisima Canyon site = five ponds,
Rucker site = three ponds)
Treatment Objectives: Average Concentrations
Biochemical Oxygen Demand = 80 mg/L (milligrams per liter)
Total Suspended Solids = 80 mg/L
Total Nitrogen = 10 mg/L (May-September)
Total Nitrogen = 15 mg/L (October-April)
Median Concentrations
Chloride = 250 mg/L
Sodium = 200 mg/L
Total Dissolved Solids = 990 mg/L
Recycling: Percolation ponds
Existing Orders: Order No. 97-35
This Action: Adopt Waste Discharge Requirements, Order No. R3-2019-
0042 and Monitoring and Reporting Program No. R3-2019-
0042 for Mission Hills Community Services District
Wastewater Treatment System

SUMMARY

Mission Hills Community Service District (MHCS D) owns and operates a 21-acre wastewater treatment plant (WWTP) that currently discharges approximately 250,000 gallons per day (gpd) of treated wastewater to the Lompoc Plain groundwater sub-basin, in Santa Barbara County. The WWTP is located at 1550 East Burton Mesa Boulevard, Lompoc, California in Santa Barbara County. MHCS D is currently regulated through Waste Discharge Requirements Order No. 97-35 and was previously regulated through Waste Discharge Requirements Order No. 84-76. This action will update and replace existing Order No. 97-35.

Existing Order No. 97-35 requires the MHCS D discharge to meet the Water Quality Control Plan for the Central Coastal Basin (Basin Plan) water quality objectives for the Lompoc Upland sub-basin. MHCS D has ongoing effluent violations of total dissolved solids, chloride, and total nitrogen that date back more than 15 years. MHCS D contends that they are not discharging into the Lompoc Upland sub-basin rather they are discharging into the Lompoc Plain sub-basin. The water quality objectives for the Lompoc Upland sub-basin are more stringent than the water quality objectives for Lompoc Plain sub-basin.

MHCS D hired Rick Hoffman and Associates (Engineering Geologists and Hydrogeologists) to conduct an extensive groundwater evaluation of the Lompoc Upland and Lompoc Plain sub-basins. The groundwater analysis confirms that the MHCS D wastewater discharge percolates to the Lompoc Plain sub-basin, not the Lompoc Upland sub-basin.

The draft proposed Waste Discharge Requirements Order No. R3-2019-0042 for Mission Hills Community Services District Wastewater Treatment System (Order) and Monitoring and Reporting Program No. R3-2019-0042 includes:

- Groundwater quality objectives for the Lompoc Plain sub-basin instead of the Lompoc Upland sub-basin;
- Revised effluent limits in alignment with the groundwater quality objectives for the Lompoc Plain sub-basin that will significantly reduce total dissolved solids and chloride violations;
- Documentation of upgrades to the WWTP and improved system management strategies to reduce total nitrogen violations;
- Documentation and clarification of the treatment capacity, disposal capacity, and discharge locations of the facility; and
- Revised monitoring and reporting requirements.

DISCUSSION

Mission Hills Community Service District owns and operates a wastewater treatment facility located at 1550 East Burton Mesa Boulevard, Lompoc, California 93436 in Santa Barbara County. MHCS D collects and treats wastewater from approximately 1265 residences and plans to increase to 1700 residences by 2025. The facilities and system are on a 21-acre lot shown in Figures 1 and 2 of the Order.

MHCS D currently discharges approximately 250,000 gallons per day (gpd) of treated wastewater to the Lompoc Plain groundwater sub-basin in Santa Barbara County. The treatment and

disposal system include a head works facility (e.g. screen and comminution), two lined facultative lagoons with aerators (Pond 1 with baffles and Pond 2 no baffles) and eight evaporation/percolation ponds (Ponds 3 through 10) shown in Figures 3 and 4 of the Order.

The Order discusses treatment capacity, disposal capacity, discharge locations (geologically and physically), pond performance (e.g. biochemical oxygen demand and total suspended solids reduction), water quality objectives, effluent limits, biosolids, and changes to the Order and Monitoring and Reporting requirements.

Treatment and Disposal Capacity

The MHCSD WWTP is designed to treat up to 400,000 gallons per day (gpd) of domestic wastewater. This treatment capacity is consistent with the WWTP design proposed in the May 1985 Operation and Maintenance Manual for the Mission Hills Community Services District. Central Coast Water Board staff evaluated flow data (Table 1) and found that annual average influent flows to the WWTP range between 220,000 and 307,054 gpd.

Table 1 – Average Annual Flow Rates

Year	Influent Average Annual Flow (gallons per day)
2011	241,473
2012	279,050
2013	303,742
2014	300,556
2015	307,054
2016	267,199
2017	230,000
2018	220,000
Average for 2011-2018	273,322

Previous Order No. 84-76, approved July 13, 1984, documented a wastewater treatment capacity of 400,000 gpd. In 1991, MHCSD requested to increase the permitted “flow capacity” to 570,000 gpd. Existing Order No. 97-35, approved on October 24, 1997, included an increase in flow capacity to 570,000 gpd based on a MHCSD November 1, 1991¹, “Request for Revision to Wastewater Plant Capacity.” The staff report for existing Order No. 97-35 states, “the study supports an increase in the permitted wastewater flowrate, showing effluent biochemical oxygen demand (BOD) and total suspended solids (TSS) will remain in compliance with effluent limitations at a higher flowrate.”

Although the May 1985 Operation and Maintenance Manual for the Mission Hills Community Services District states the treatment capacity is 400,000 gpd, the total disposal capacity for the facilities eight evaporation/percolation ponds is estimated to be approximately 570,000 gpd. With the current annual average flows, the facility is operating at approximately 68 percent of the

¹ Staff has been unable to locate the November 1, 1991 request. The 1985 wastewater treatment plant design BOD and TSS effluent concentrations are predicted to be BOD 30 mg/L and TSS 30 mg/L.

available treatment capacity and approximately 48 percent of the available disposal capacity. The Order has been revised to explicitly state that the facility has a treatment capacity of 400,000 gpd and a disposal capacity of 570,000 gpd.

Discharge Locations

MHCSD has eight unlined disposal ponds available for effluent polishing and evaporation/percolation (five ponds at the La Purisima Canyon site and three ponds at the Rucker site). Currently, MHCSD discharges to five ponds at the La Purisima Canyon site. At times, MHCSD submits written requests to Central Coast Water Board staff to maintain the pipeline between the WWTP and the Rucker ponds. To maintain the pipeline, MHCSD uses potable water to flush the line and the flush water is discharged into the Rucker ponds.

The Order includes the option for MHCSD to utilize additional treated wastewater disposal area by integrating the Rucker ponds for treated wastewater disposal. On May 15, 2018, MHCSD staff informed Central Coast Water Board staff of their intention to develop a long-term operation and maintenance program incorporating the use of the Rucker ponds. MHCSD will submit an operation and maintenance program for review and approval by the Central Coast Water Board Executive Officer prior to discharging treated wastewater to the Rucker ponds.

The Order allows MHCSD to discharge potable water to the Rucker ponds without prior approval. Discharges of potable water to the Rucker ponds will be documented in monthly self-monitoring reports.

Performance of the Treatment Ponds for Biochemical Oxygen Demand and Total Suspended Solids Reduction

The May 1985 Operation and Maintenance Manual² for the MHCSD wastewater treatment system includes calculated design effluent BOD and TSS concentrations at 30 mg/L for both BOD and TSS.

Previous Order No. 84-76 set technology-based effluent limits for BOD and TSS at 80 mg/L based on four effluent samples collected in 1984. Existing Order No. 97-35 includes the same BOD and TSS effluent limits.

Staff reviewed MHCSD BOD and TSS data for 2012 through 2017. Table 2 shows the annual average BOD and TSS effluent concentrations and the annual average percent removal for each year data was evaluated.

² See page 4, Operation and Maintenance Manual, Penfield & Smith Engineers, Inc., May 1985.

Table 2 – BOD and TSS Water Quality Data and Removal Rates

	Annual Average Biochemical Oxygen Demand (BOD)		Annual Average Percent Removal (BOD)	Annual Average Total Suspended Solids (TSS)		Annual Average Percent Removal (TSS)
	mg/L		%	mg/L		%
	Influent	Effluent		Influent	Effluent	
2011	130	36	72	678	ID	ID
2012	3008	ID	ID	340	ID	ID
2013	638	83	87	440	ID	ID
2014	608	22	96	370	ID	ID
2015	421	20	95	264	ID	ID
2016	284	22	92	304	66	78
2017	280	43	85	252	111	56

ID = Insufficient data

Blue color indicates exceedance of the 80 mg/L effluent limit

For the years evaluated, the BOD effluent concentrations met the effluent requirements of 80 mg/L five of seven years. The WWTP did not meet effluent requirements in 2013 and there was insufficient data to determine compliance for 2012. During this same seven-year period, the BOD effluent concentrations also met the original calculated design concentration of 30 mg/L for three of seven years evaluated.

For TSS, data sufficient for evaluation was limited to two of the seven years. For 2016, the TSS effluent concentrations met the requirements of 80 mg/L. For 2017, the TSS effluent concentrations did not meet the requirements of 80 mg/L.

Although the wastewater discharged to the evaporation/percolation ponds has not consistently met the effluent requirements for BOD or TSS, there is limited data to show that the discharge has negatively impacted the evaporation/percolation ponds or groundwater. One issue of concern with high TSS is the potential for suspended solids to settle and impede percolation. MHCS staff estimates that there is a six-inch sludge layer on the bottom of Pond 3 and minimal sludge on the bottom of Ponds 4, 5, and 6. Pond 7 is currently not in use. MHCS proposes to measure the sludge layer in each evaporation/percolation pond within the next five years. MHCS will use the information to develop and implement an evaporation/percolation pond maintenance program.

The Order maintains the BOD and TSS limits of 80 mg/L established in previous Order No. 84-76.

Median Groundwater Quality Objectives

Table 3 below shows the Basin Plan median groundwater quality objectives for both the Lompoc Upland sub-basin and Lompoc Plain sub-basin.

Table 3 – Lompoc Plain and Lompoc Upland Sub-Basins Median Groundwater Quality Objectives (Basin Plan)

Constituent	Units	Lompoc Upland Sub-Basin Concentration	Lompoc Plain Sub-Basin Concentration
Boron	mg/L	0.5	0.5
Chloride	mg/L	150	250
Sodium	mg/L	100	250
Sulfate	mg/L	100	500
Total Dissolved Solids	mg/L	600	1250
Nitrogen as (N)	mg/L	2	2

Existing Effluent Limits for Chloride, Sodium, and Total Dissolved Solids

Staff reviewed available reports and previous orders and determined that the 1985 design for the WWTP did not include treatment considerations for chloride, sodium, or total dissolved solids. Although the WWTP is not designed to treat for chloride, sodium, or total dissolved solids, the previous and existing orders (Order No. 84-76 and No. 97-35) contained effluent limits for these constituents. Table 4 show the effluent limits contained in Orders No. 84-76 and No. 97-35.

Table 4 – Effluent Limits for Chloride, Sodium, and Total Dissolved Solids

Constituent	Units	Previous Order 84-76		Existing Order 97-35	
		Annual Average	Sample Maximum	30-day Average	Sample Maximum
Chloride	mg/L	WS + 75	250	140	250
Sodium	mg/L	WS + 70	200	200	300
Total Dissolved Solids	mg/L	WS + 325	1050	800	1050

WS = Water Supply (Total Dissolved Solids = 600 mg/L, Sodium = 52 mg/L, Chloride = 150 mg/L). Water supply data based on one sample from November 7, 1983.

The effluent limits in previous Order 84-76 are consistent with groundwater quality objectives from Central Coast Water Board Resolution No. 84-05³ and the effluent limits in the existing order appear to be a combination of groundwater quality objectives from Resolution No. 84-05 and 1996 Central Coast Water Board water quality analysis. However, the groundwater quality objectives in existing Order No. 97-35 are not consistent with the Basin Plans current groundwater quality objectives for either the Lompoc Uplands sub-basin or Lompoc Plains sub-basin (Table 3 on previous page).

Revised Effluent Limits for Chloride, Sodium, and Total Dissolved Solids

The Order includes revised effluent limits for chloride, sodium, and total dissolved solids.

Groundwater Data Evaluation: MHCSO provided a groundwater analysis to Central Coast Water Board staff that confirms the MHCSO wastewater discharge percolates to the Lompoc Plain sub-basin, not the Lompoc Upland sub-basin. In July 2014, MHCSO submitted an initial hydrogeologic

³ RESOLUTION 00. 84-05, Concerning Revisions and Amendment of Water Quality Control Plan, Central Coastal Basin, (Lompoc Basin Objectives and Management)

evaluation prepared by Rick Hoffman and Associates for the groundwater basins underlying the MHCS D wastewater treatment and disposal system. Central Coast Water Board staff reviewed the evaluation and requested supplementary sampling, analysis, and the inclusion of a geologic cross-section. Central Coast Water Board staff evaluated the additional information submitted by MHCS D in June 2015. In March 2016, MHCS D submitted additional groundwater sampling results evaluated for the presence of sucralose and acesulfame potassium (ace-K). In April 2016, MHCS D submitted an addendum to the July 2014 hydrogeologic evaluation requesting that the Central Coast Water Board "modify its effluent discharge specifications for wastewater discharged at the La Purisima Facility and the Rucker Road Facility based on objectives for the Lompoc Plain Basin."

The hydrogeologic evaluation considered 14 water supply wells and water monitoring wells located in or directly adjacent to the Lompoc Uplands groundwater sub-basin. The hydrogeologic evaluation documents that the MHCS D wastewater treatment and disposal system is located above both the Lompoc Plain sub-basin and the Lompoc Upland sub-basin. The report states that the top 25 feet of soil below the evaporation/percolation ponds consists of sandy-silt soils of moderately low permeability, followed by approximately 200 feet of low to moderate permeability sandy material, followed by a layer (5 to 12 feet thick) of sandy-clay. The report states that the layer of blue clay found at approximately 200 feet "sits" over the Lompoc Upland sub-basin and is considered an "aquitard"⁴ that restricts the flow of groundwater between the Lompoc Plain sub-basin (upper basin) and the Lompoc Upland sub-basin (lower basin) as shown in Figures 5, 6, and 7 of the Order.

In addition to the hydrogeologic evaluation, MHCS D analyzed wastewater and groundwater samples for the presence of sucralose and ace-K. The presence of sucralose and ace-K (artificial sweeteners) in groundwater may be indicative of connectivity between wastewater discharge and groundwater. Water quality data from evaporation/percolation Pond 3 showed concentrations of sucralose and ace-K of 6.8 ug/L and 21 ug/L respectively. Water quality samples analyzed from MHCS D water supply wells (MHCS D #5 and #7) upgradient of Pond 3 and monitoring well MW#1 downgradient of Pond 3 did not detect the presence of either sucralose or ace-K. The sucralose and ace-K data implies that the sucralose and ace-K detected in the evaporation/percolation ponds is not reaching the water supply wells or monitoring well MW#1.

Wastewater Treatment Plant Influent and Effluent Data Evaluation: Central Coast Water Board staff evaluated chloride, sodium, and total dissolved solids concentrations in the wastewater treatment plant influent, effluent, the water supply, and in the downgradient monitoring well MW#1. Tables 5 and 6 show the annual average, range, and median concentrations of wastewater treatment plant influent and effluent data from 2014 and 2018 for chloride, sodium, and total dissolved solids.

⁴ Aquitard = a geologic formation or stratum that lies adjacent to an aquifer and that allows only a small amount of liquid to pass (Merriam-Webster).

Table 5 – Influent Quality for Chloride, Sodium, and Total Dissolved Solids 2014/2018

	Influent	Units	Chloride	Sodium	Total Dissolved Solids
2014	Average	mg/L	400	236	1300
	Range	mg/L	170-730	140-410	870-2100
	Median	mg/L	403	245	1265
2015	Average	mg/L	400	228	1372
	Range	mg/L	150-1000	110-510	720-3000
	Median	mg/L	250	170	1145
2016	Average	mg/L	455	254	1343
	Range	mg/L	190-910	140-405	750-2400
	Median	mg/L	420	228	1180
2017	Average	mg/L	324	193	1031
	Range	mg/L	140-770	100-380	740-1800
	Median	mg/L	275	165	925
2018	Average	mg/L	415	185	1059
	Range	mg/L	140-940	120-350	670-2000
	Median	mg/L	358	155	930

Table 6 – Effluent Quality for Chloride, Sodium, and Total Dissolved Solids 2014/2018

	Effluent	Units	Chloride	Sodium	Total Dissolved Solids
2014	Average	mg/L	295	194	948
	Range	mg/L	210-650	165-410	865-1500
	Median	mg/L	275	175	905
2015	Average	mg/L	255	168	848
	Range	mg/L	230-295	145-200	815-865
	Median	mg/L	253	168	853
2016	Average	mg/L	259	174	871
	Range	mg/L	225-290	150-190	795-960
	Median	mg/L	265	175	860
2017	Average	mg/L	248	168	884
	Range	mg/L	230-260	150-190	790-1000
	Median	mg/L	251	170	885
2018	Average	mg/L	261	175	852
	Range	mg/L	220-300	160-200	770-960
	Median	mg/L	268	168	835

Table 7 shows the average, median, and range of concentrations measured in the WWTP effluent, in the water supply, and in monitoring well MW#1.

Table 7 – MHCSD Water Supply, Effluent, and Monitoring Well MW#1 Data

		Units	Chloride	Sodium	Total Dissolved Solids
MHCSD Water Supply Data^A (2016-2018)	Average	mg/L	162	82	634
	Range	mg/L	132-210	76-95	603-710
	Median	mg/L	159	80	622
Effluent^B (2014-2018)	Average	mg/L	263	176	880
	Range	mg/L	210-650	145-410	770-1500
	Median	mg/L	260	170	865
Monitoring Well #1^C (2011-2018)	Average	mg/L	160	95	533
	Range	mg/L	61-270	39-150	250-870
	Median	mg/L	145	96	430

A = Based on eight samples

B = Based on 25 samples

C = Based on 26 to 30 samples depending on constituent (Total Dissolved Solids = 30, Chloride and Sodium = 26)

Monitoring well MW#1 data (2011 through 2018) shows that groundwater, is at times, influenced by the MHCSD discharge. The total dissolved solids concentrations measured in MW#1 (average, median, and range) are similar to those seen in the water supply. For chloride in MW#1, the average, median, and range of concentrations are similar to the water supply concentrations. For sodium in MW#1, the average, median, and range of concentrations are elevated when compared to the water supply concentrations, but the median concentration is below the water quality objective of 250 mg/L.

The hydrologic evaluation, monitoring well data, and water supply data, coupled with the sucralose and ace-K data, provides multiple lines of evidence that the MHCSD wastewater discharge is not significantly impacting groundwater quality.

This same hydrologic evaluation, monitoring well data, water supply data, coupled with the sucralose and ace-K data, provides multiple lines of evidence that the MHCSD is discharging into the Lompoc Plain sub-basin, not the Lompoc Upland sub-basin (see Order Figure 7). This a significant finding in that existing Order No. 97-35 states that the MHCSD wastewater treatment and disposal system is discharging into the Lompoc Upland sub-basin because of the facilities physical location. As such, Order No. 97-35 uses effluent limits that are protective of the median groundwater quality objectives for the Lompoc Upland sub-basin.

Based on the various lines of evidence, it appears appropriate to set median groundwater quality objectives in the Order for the MHCSD effluent consistent with the median groundwater quality objectives for the Lompoc Plain sub-basin.

Chloride: Staff set a 25-month rolling median effluent limit at 250 mg/L in the Order which is the Basin Plan median water quality objective (consistent with water quality objectives for the Lompoc Plain sub-basin). Staff set the single sample maximum effluent limit for chloride at 300 mg/L, the highest average monthly value observed from composite samples for Ponds 3-7 for data from 2014-2018.

Even with the revisions of the water quality objectives consistent with the Lompoc Plain sub-basin, the MHCSD effluent may continue to have difficulty meeting the proposed Order's objective of 250 mg/L as the facility is currently operated. MHCSD will continue to implement modified management strategies to comply with the chloride effluent limit.

Sodium: Staff set a 25-month rolling median effluent limit at 200 mg/L in the Order which is consistent with the 2016/2018 effluent median concentration plus a 15 percent factor of safety and the effluent limit in existing Order No.97-35. Staff set the effluent limit single sample maximum for sodium at 250 mg/L which is the Basin Plan median water quality objective (for the Lompoc Plain sub-basin).

Total Dissolved Solids: Staff set a 25-month rolling median effluent limit at 990 mg/L in the Order which is consistent with the 2016/2018 effluent median concentration plus a 15 percent factor of safety. Staff set the effluent limit single sample maximum for sodium at 1250 mg/L which is the Basin Plan median water quality objective (for the Lompoc Plain sub-basin).

Table 8 summarizes the 30-day average effluent limit and the single sample maximum effluent limit for chloride, sodium, and total dissolved solids for existing Order No. 97-35 and the proposed 25-month rolling median effluent limit and the single sample maximum effluent in the Order.

Table 8 – WWTP Effluent Limits

Constituent	Units	Existing Order No. 97-35		Order R3-2019-0042	
		30-day Average	Sample Maximum	25-Month Rolling Median	Sample Maximum
Chloride	mg/L	140	250	250	300
Sodium	mg/L	200	300	200	250
Total Dissolved Solids	mg/L	800	1050	990	1250

The Order includes a 25-month rolling median which allows for comparison of effluent data with the Basin Plan median water quality objectives.

Existing and Proposed Nitrogen Effluent and Groundwater Limits

Previous Order No. 84-76 set an annual mean effluent limit for total nitrogen as nitrogen (N) at 10 mg/L, with a sample maximum of 20 mg/L. Order No. 84-76 stated, "The discharge shall not cause total nitrogen concentrations in ground water downgradient of the disposal area to exceed 10 mg/L (as N)." These limits are consistent with Central Coast Water Board Resolution No. 84-05.

Existing Order No. 97-35 includes a monthly average effluent limit for total nitrogen (as N) at 10 mg/L for the months of May through September with a sample maximum of 20 mg/L. For the remainder of the year (October through April) Order No. 97-35 includes a monthly average effluent limit for total nitrogen (as N) at 15 mg/L, with a sample maximum of 30 mg/L (Table 9). Order No. 97-35 also states the discharge shall not cause total nitrogen concentrations in ground water downgradient of the disposal area to exceed 8 mg/L (as N).

Table 9 – Existing and Proposed Nitrogen Effluent and Groundwater Limits

Nitrogen Effluent and Groundwater Limits	Constituent	Units	Effluent Limits		Groundwater Limits
			Monthly Average (30-day)	Daily Maximum	Median
Existing Order 97-35	Total Nitrogen (as N)	mg/L	10(May-Sep)	20(May-Sep)	8
			15(Oct-Apr)	30(Oct-Apr)	
Proposed Order	Total Nitrogen (as N)	mg/L	10(May-Sep)	20(May-Sep)	2
			15(Oct-Apr)	30(Oct-Apr)	

The data in Table 9 shows the existing median groundwater quality objective (8 mg/L (as N)) and proposed median groundwater quality objective (2 mg/L (as N)). Existing Order 97-35 references the Basin Plan as the source for the 8 mg/L (as N). The Basin Plan does not contain a median groundwater quality objective of 8 mg/L (as N) for either the Lompoc Uplands sub-basin or Lompoc Plains sub-basin (Table 3). Neither Resolution No. 84-05 or the existing Basin Plan contain a reference to this concentration as a median groundwater quality objective for either the Lompoc Plain sub-basin or the Lompoc Upland sub-basin. The Basin Plan does have a median groundwater quality objective of 8 mg/L for the Santa Maria sub-basin and the Salinas River Lower Forebay sub-basin, but neither sub-basin is hydrologically connected to either the Lompoc Plain sub-basin or the Lompoc Upland sub-basin.

Effluent and Groundwater Nitrogen Concentrations

Central Coast Water Board staff evaluated total nitrogen concentrations in the wastewater treatment plant effluent, the water supply, and in the downgradient monitoring well MW#1. Table 10 shows the average, median, and range of concentrations measured in the effluent from the wastewater treatment plant, in the water supply, and in monitoring well MW#1. The MW#1 data (2011 through 2018) implies that groundwater in MW#1 is at times, influenced by the MHCSO discharge. However, the total nitrogen median concentrations measured in MW#1 are below the water quality objective of 2.0 mg/L.

Table 10 – Nitrogen Water Quality Data, Effluent and Groundwater (MW#1)

	Total Nitrogen (mg/L)		
	MHCSD Water Supply Data (2016-2018)	WWTP Effluent (2014-2018)	Monitoring Well #1 (2011-2018)
Average	2.1	16	2.6
Range	0.6-3.5	5-54	1.2-7.6
Median	2.2	15	1.8

The total nitrogen data from monitoring well MW#1 implies that the MHCSD wastewater discharge is not significantly impacting groundwater quality.

Revised Nitrogen Groundwater Quality Objectives

Based on the various lines of evidence discussed above, the Order includes a revised groundwater quality objective of 2 mg/L total nitrogen, consistent with the water quality objectives for the Lompoc Plain sub-basin.

Biosolids

The Order includes revised requirements specifying that MHCSD is responsible for ensuring that all biosolids produced at its facility are used or disposed of in accordance with 40 Code of Federal Regulations part 503 biosolids regulations, whether MHCSD uses or disposes of the biosolids itself or transfers them to another party for further treatment, use, or disposal.

CHANGES INCLUDED IN ORDER NO. R3-2019-0042

The following sections describe the changes contained in the Order.

WWTP Capacity

The Order includes an updated description of the wastewater treatment system.

Table 11 – WWTP Capacity

Parameter	Existing Capacity	Proposed Capacity
Plant Capacity	570,000 gpd	400,000 gpd – Treatment ^A 570,000 gpd – Disposal ^B

A = 1985 Operation and Maintenance Manual for the Mission Hills Community Services District

B = 1991 request from MHCSD to increase disposal capacity from 400,000 gpd to 570,000 gpd

Rucker Ponds

The Order includes the option for MHCSD to discharge both potable and treated wastewater at the Rucker ponds site.

Effluent Limits

Table 12 summarizes the revised effluent limits for sodium, chloride, and total dissolved solids.

Table 12 – Existing and Proposed Effluent Limits

Constituent	Existing Effluent Limit	Proposed Effluent Limit
Total Dissolved Solids	800 mg/L	990 mg/L
	30-day Average	25-Month Rolling Median
	1050 mg/L	1250 mg/L ^C
	Daily Maximum	Daily Maximum
Sodium	200 mg/L	200 mg/L
	30-day Average	25-Month Rolling Median
	300 mg/L	250 mg/L ^C
	Daily Maximum	Daily Maximum
Chloride	140 mg/L	250 mg/L ^C
	30-day Average	25-Month Rolling Median
	250 mg/L	300 mg/L
	Daily Maximum	Daily Maximum

C = median water quality objective for the Lompoc Plain sub-basin

Groundwater Quality Objectives

Table 13 summarizes the revised groundwater quality objectives for total nitrogen (as N).

Table 13 – Existing and Proposed Groundwater Quality Objectives

Constituent	Existing Groundwater Quality Objectives	Proposed Groundwater Quality Objectives
Groundwater nitrogen	8 mg/L ^D	2 mg/L ^E

D = median water quality objective for the Santa Maria sub-basin

E = median water quality objective for the Lompoc Plain sub-basin

Biosolids

The Order includes revised requirements specifying that MHCSO is responsible for ensuring that all biosolids produced at its facility are used or disposed of in accordance with 40 Code of Federal Regulations part 503 biosolids regulations, whether MHCSO uses or disposes of the biosolids itself or transfers them to another party for further treatment, use, or disposal.

REVISED MONITORING AND REPORTING PROGRAM NO. R3-2019-0042

The following sections describe the proposed revisions to the Order's monitoring and reporting program.

Water Supply, Influent, Effluent, and Groundwater Monitoring

Tables 14 through 17 summarize the required water supply, influent, effluent, and groundwater monitoring.

Table 14 – Proposed Water Supply Monitoring

Parameter	Units	Type of Sample	Sampling Frequency
Flow Volume	Gallons per day	Metered	Monthly
Constituent			
Boron	mg/L	Grab	Annually (March)
Sulfate	mg/L	Grab	" "

Table 15 – Proposed Influent Monitoring

Constituent			
Ammonia (as N)	mg/L	Grab	Quarterly (Jan., Apr., July, Oct.)
Chloride	mg/L	Grab	" "
Sodium	mg/L	Grab	" "
Total Dissolved Solids	mg/L	Grab	" "
Total Kjeldahl Nitrogen (as N)	mg/L	Grab	" "
Total Nitrogen	mg/L	Calculated	" "

Table 16 – Proposed Effluent Monitoring

Parameter	Units	Type of Sample	Sampling Frequency
Flow Volume	Gallons per day	Estimated	Daily
Maximum Daily Flow	Gallons per day	Estimated	Monthly
Mean Daily Flow	Gallons per day	Estimated	Monthly
Constituent			
Settleable Solids	ml/L	Grab	Weekly
Biochemical Oxygen Demand, 5-Day	mg/L	Grab	Quarterly (Jan., Apr., July, Oct.)
Total Suspended Solids	mg/L	Grab	" "
Boron	mg/L	Grab	Annually (April)
Sulfate	mg/L	Grab	" "

Table 17 – Proposed Groundwater Monitoring (Monitoring Well #1)

Constituent	Units	Type of Sample	Sampling Frequency
Depth to groundwater	Feet	measure	Quarterly (Jan., Apr., July, Oct.)
Nitrite (as N)	mg/L	Grab	" "
Nitrate (as N)	mg/L	Grab	" "
Total Kjeldahl Nitrogen (as N)	mg/L	Grab	" "
Total Nitrogen	mg/L	Calculated	" "
Total Dissolved Solids	mg/L	Grab	" "

Sodium	mg/L	Grab	"	"
Chloride	mg/L	Grab	"	"
Boron	mg/L	Grab	"	"
Sulfate	mg/L	Grab	"	"

Biosolids Monitoring

The Order requires MHCSO to ensure that all biosolids produced at its facility are used or disposed of in accordance with the rules documented in Order section B.2.4 Solids/Solid Waste Control, whether MHCSO uses or disposes of the biosolids itself or transfers them to another party for further treatment, use, or disposal.

Rucker Ponds Operation and Maintenance Program

Within **36 months** from the date of adoption of Order and prior to discharging to Rucker Ponds, the Order requires MHCSO to submit a proposed operation and maintenance program for the Rucker Ponds for review and approval by the Executive Officer.

Quarterly Self-Monitoring Reports

The Order requires self-monitoring reports to be submitted quarterly instead of monthly.

Annual Performance Monitoring

The Order requires MHCSO to evaluate and discuss the wastewater treatment system performance in terms of system design parameters, operational measures, changes in system water quality, and increase/decrease of load discharged to the environment. The annual report is due January 30 each year.

Electronic Submittal

The Order requires MHCSO to electronically submit all reports/documents and laboratory data to the State Water Resources Control Board's (State Water Board) GeoTracker database.

COMPLIANCE HISTORY

On December 2, 2010, the Central Coast Water Board issued a Notice of Violation (NOV) to the MHCSO wastewater facility. The NOV cited MHCSO for multiple effluent violations of total dissolved solids, chloride, and total nitrogen. The NOV directed the MHCSO to take immediate actions necessary to ensure compliance with existing Order No. 97-35. The NOV required the MHCSO to submit a report addressing the violations and deficiencies described in the NOV and a summary of actions to ensure future compliance with discharge specifications and monitoring and reporting requirements.

On February 28, 2011, MHCSO submitted a corrective action plan with an implementation schedule to be completed by May 2011. After submittal of the corrective action plan, MHCSO encountered several issues that extended the implementation of management actions beyond

May 2011. On June 19, 2017, MHCSO submitted information documenting implementation of management actions necessary to address the conditions of the NOV. Table 18 summarized the actions implemented by MHCSO in response to the NOV.

Table 18 – MHCSO Implementation Actions

Implementation Action	Date Completed
Review and implement pond management strategies	February 2011
Replace Pond 2 liner	May 2011
Install the down-gradient groundwater monitoring well	October 2011
Develop and adopt self-regenerating water softener ordinance	September 2013
Evaluate nitrogen control actions and testing protocols	October 2016

On August 30, 2017, the Central Coast Water Board sent a letter to MHCSO confirming that they had met the conditions of the 2010 NOV.

The effluent discharged to the evaporation/percolation ponds has been out of compliance for chloride since 1997 (Boyle 2004, Application for Amending RWQCB Waste Discharge Permit No. 97-35). The 2010 NOV documents chloride violations eight out of eight months reviewed. Monitoring reports for the period of January 2016 through December 2017 document an additional 24 (24 of 24 samples evaluated) chloride violations.

The effluent discharged to the evaporation/percolation ponds has been out of compliance for total dissolved solids since 2001 (Boyle 2004, Application for Amending RWQCB Waste Discharge Permit No. 97-35). The 2010 NOV documents total dissolved solids violations seven out of eight months reviewed. Monitoring reports for the period of January 2016 through December 2017 document an additional 21 (21 of 24 samples evaluated) total dissolved solids violations.

The 2010 NOV documents total nitrogen violations six out of eight months reviewed. From 2011 through 2013, MHCSO erroneously reported total Kjeldahl nitrogen as total nitrogen in both monthly and annual reports. Review of monitoring reports for the period of January 2016 through December 2017 documents an additional 15 (15 of 24 samples evaluated) total nitrogen violations. MHCSO now reports total nitrogen (effective January 2014).

In 2011, MHCSO added 56,000 gallons of well water to Pond 1 to reduce the concentrations of total dissolved solids, sodium, chloride, and total nitrogen. This addition of well water occurred for approximately one week and then stopped once the MHCSO understood this practice was a violation of the conditions of the Order.

On February 17, 2017, MHCSO reported two split seams in Pond 1 resulting in a discharge of untreated wastewater directly to the ground below Pond 1. This is a violation of existing Order No. 97-35, Section A, Discharge Prohibitions, Item 1 "Discharge of treated wastewater at disposal areas other than as shown on Attachments "B" and "C" is prohibited." Order No. 97-35, attachments "B" and "C" show the locations of the evaporation/percolation ponds which are after treatment in Ponds 1 and 2. MHCSO replaced the liner in Pond 1 and started using the pond again in November 2017.

POTENTIAL ONGOING COMPLIANCE ISSUES

Although the WWTP is now treating wastewater as designed, the biology in Pond 1 is still maturing and there continues to be violations for total nitrogen. In May 2017, the MHCSO seeded Pond 1 with 500 gallons of mature wastewater (500 gallons of activated sludge from the City of Lompoc). The MHCSO staff are monitoring the bacterial growth and the total nitrogen concentrations. The MHCSO will continue to implement operational changes to achieve compliance with the total nitrogen effluent limit.

The MHCSO WWTP continues to be in violation of the total dissolved solids and chloride effluent limits. Revision of the Order to include water quality objectives consistent with the Lompoc Plain sub-basin will help MHCSO achieve compliance with the conditions of the Order. In addition to the revised water quality objectives, MHCSO staff will also implement additional management strategies to achieve compliance with the limits proposed in the Order.

ENVIRONMENTAL SUMMARY

In February 1982, MHCSO approved an Initial Study and Negative Declaration for improvement and expansion of the wastewater treatment facility in accordance with the California Environmental Quality Act (CEQA, Public Resources Code, Section 21000, et seq) and the California Water Code section 13389. The Initial Study determined that there are no significant adverse environmental effects or that all potentially significant adverse effects can be avoided through implementation of mitigation measures. This Order implements mitigation measures to prevent nuisance and assure protection of beneficial uses of surface and groundwater.

CLIMATE CHANGE ADAPTATION

MHCSO wastewater treatment plant is situated approximately 325 feet above sea level and is not susceptible to sea-level rise or flooding hazards from rising sea levels. However, the wastewater collection system, regulated under State Water Board Order No. 2006-0003-DWQ, does have the potential to be impacted (e.g. increased inflow and infiltration) by highly variable precipitation that may result from climate change. Central Coast Water Board staff will work with State Water Board staff to ensure Order No. 2006-0003-DWQ addresses climate change issues when it is revised.

TIME SCHEDULE ORDER

MHCSO's compliance history indicates it cannot achieve immediate compliance with the existing chloride and total nitrogen effluent limits prescribed in Order. In January 2019, MHCSO staff developed a draft plan to upgrade its operations and wastewater treatment facility.

The draft plan describes facility upgrades designed to ensure compliance with permit limitations, improve effluent quality, improve existing facilities, and provide redundancy for some existing operations. Phased implementation is scheduled to begin in 2019 with estimated completion in 2025.

After Central Coast Water Board adoption of Waste Discharge Requirements, Order and Monitoring and Reporting Program No. R3-2019-0042, the Executive Officer will issue Time

Schedule Order No. R3-2019-0015. The time schedule order will require MHCSD to submit a plan by April of 2019 that has been approved by the MHCSD Board to upgrade its operations and wastewater treatment facility.

COMMENTS

Pending

ATTACHMENTS

1. Draft Waste Discharge Requirements Order No. R3-2019-0042 for Mission Hills Community Services District Wastewater Treatment System
2. Draft Monitoring and Reporting Requirements Order No. R3-2019-0042 for Mission Hills Community Services District Wastewater Treatment System

RECOMMENDATION

Adopt Waste Discharge Requirements, Order No. R3-2019-0042 and Monitoring and Reporting Program No. R3-2019-0042 for Mission Hills Community Services District Wastewater Treatment System.

HEK
WDR Program
Charge Code = A32000
ECM Subject Name = Mission Hills CSD Staff Report for Order No. R3-2019-0042
ECM/CIWQS Place ID = 240951
GeoTracker No. = WDR100033210
R:\RB3\Shared\WDR\WDR Facilities\Santa Barbara Co\Mission Hills CSD WWTP\Draft MHCSD Stf Rpt R3-2019-0042 2-8-2019.docx

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL COAST REGION
895 Aerovista Place, Suite 101
San Luis Obispo, California 93401**

**DRAFT WASTE DISCHARGE REQUIREMENTS ORDER
NO. R3-2019-0042**

Waste Discharger Identification No. 3 420114004

**FOR
MISSION HILLS COMMUNITY SERVICES DISTRICT
WASTEWATER TREATMENT SYSTEM
SANTA BARBARA COUNTY**

May 9-10, 2019

This Order contains Findings, Requirements, a Monitoring and Reporting Program (Attachment I) and a Staff Report (Attachment II).

A. FINDINGS

- A.1 Site/facility owner and location
- A.2 Purpose of Order
- A.3 Site/facility description
- A.4 Changes to Order
- A.5 Basin plan beneficial uses and water quality objectives
- A.6 Recycled water policy
- A.7 Antidegradation policy
- A.8 Environmental summary
- A.9 Climate change adaptation
- A.10 Total maximum daily loads
- A.11 Monitoring and reporting program
- A.12 Existing orders and general findings

B. REQUIREMENTS

- B.1 Prohibitions
- B.2 Specifications
 - B.2.1 Effluent Limitations
 - B.2.2 Groundwater Limitations
 - B.2.3 System Operations Specifications
 - B.2.4 Solids/Solid Waste Control
 - B.2.5 Disposal Area
- B.3 Provisions
- B.4 Monitoring and reporting program
- B.5 Enforcement
- B.6 Effective date of the Order

C. Monitoring and Reporting Program (Attachment I):

D. Staff Report (Attachment II):

Tables:

Table 1	Treatment Pond Influent Average Annual Flow
Table 2	Treatment Pond Water Quality
Table 3	Treatment Pond Design Objectives
Table 4	Lompoc Plain/Lompoc Upland sub-basins Median Groundwater Objectives
Table 5	Monitoring Well No. 1 Water Quality Data
Table 6	MHCSD Combined Water Supply Groundwater Data Wells #5, #6, and #7
Table 7	MHCSD WWTP Plant Capacity
Table 8	MHCSD Effluent Limits
Table 9	Groundwater Quality Objectives
Table 10	Lompoc Plain sub-basin Median Groundwater Quality Objectives
Table 11	Effluent Limitations
Table 12	Lompoc Plain sub-basin Median Groundwater Objectives

Figures:

Figure 1	Location of the Mission Hills Community Service District.
Figure 2	Location of the Mission Hills Community Service District Facility and Rucker Ponds.
Figure 3	Mission Hills Community Service District Wastewater Treatment and Disposal System. Treatment Ponds 1 and 2, Disposal Ponds 3, 4, 5, 6, and 7.
Figure 4	Mission Hills Community Service District Wastewater Disposal, Rucker Ponds 8, 9, and 10.
Figure 5	Lompoc Plain and Lompoc Upland Sub-Basins
Figure 6	Cross Section Location, A- A', Location of Mission Hills Community Service District (MHCSD) Water Supply Wells MHCSD #5, #6, and #7, and Location of Groundwater Monitoring Well (MW #1).
Figure 7	Cross Section Lompoc Plain sub-basin (upper basin) and the Lompoc Upland sub-basin (lower basin)

Findings

A. FINDINGS – The Central Coast Regional Water Quality Control Board (Central Coast Water Board) finds:

A.1 SITE/FACILITY OWNER AND LOCATION

1. Mission Hills Community Service District (MHCS D) operates a wastewater treatment plant located at 1550 East Burton Mesa Boulevard, Lompoc, California in Santa Barbara County.
2. MHCS D collects and treats wastewater from approximately 1265 residences and may possibly increase to 1700 residences by 2025.
3. The facilities and system are on a 21-acre lot (Section 14, T7N, R34W, SB B&M) as shown in Figure 1 and 2 of this Order.

A.2 PURPOSE OF ORDER

4. This Waste Discharge Requirements Order No. R3-2019-0042 for Mission Hills Community Services District Wastewater Treatment System (Order) prescribes revised waste discharge requirements for MHCS D (also referred to as "Discharger").
5. The Discharger filed a Report of Waste Discharge (ROWD), received on March 3, 2016, in accordance with section 13260 of the California Water Code. The Discharger filed the ROWD for authorization to discharge within the Santa Rita Hydrologic Area (No. 314.20) and into the Lompoc Plain groundwater basin (No. 3-15).
6. On November 18, 2016, the Discharger submitted an update to the ROWD. The updated ROWD describes upgrades to wastewater treatment systems over the last twenty years.
7. On November 18, 2017, the Discharger submitted an addendum to the ROWD including information regarding repair and upgrades to Pond 1, updated nitrogen management strategies, and updated groundwater data.
8. In 2017, Mission Hills Community Service District performed the plant repairs and upgrades listed below:
 - Inspected liner condition of Pond 1.
 - Removed sludge from Pond 1.
 - Replaced the liner in Pond 1.
 - Added baffles to Pond 1.
 - Repaired the valve between Pond 1 and Pond 2.
 - Replaced three valve actuators between Pond 1 and Pond 2.
 - Inspected the liner condition of Pond 2.
 - Replaced six valve actuators between Pond 2 and Pond 3.
 - Repositioned aerators to optimize hydraulic retention time and optimize oxygen transfer.
 - Replaced a damaged flow meter.
 - Purchased a backup flow meter.

9. The Discharger has performed a groundwater evaluation, *Hydrologic Documentation Prepared for Mission Hills Community Services District, Request for Amending RWQCB Water Discharge Requirements Order No. 97-35, Rick Hoffman and Associates, July 2014*, to determine which groundwater basin receives the wastewater discharge.
10. On June 15, 2015, the Discharger submitted an Addendum Report to the *Hydrologic Documentation Prepared for Mission Hills Community Services District, Request for Amending RWQCB Water Discharge Requirements Order No. 97-35*, containing additional hydrologic information and updated graphics.
11. On March 3, 2016, the Discharger submitted additional water quality data to assess the potential impacts to shallow groundwater from the discharge at the MHCSO wastewater treatment plant (WWTP).
12. On March 4, 2016, the Discharger submitted an updated summary of *Hydrologic Documentation Prepared for Mission Hills Community Services District, Request for Amending RWQCB Water Discharge Requirements Order No. 97-35, Rick Hoffman and Associates, July 2014*.
13. On March 29, 2018, the Discharger submitted updated shallow groundwater monitoring data.
14. The groundwater analysis confirmed that the MHCSO wastewater discharge percolates to the Lompoc Plain sub-basin, not the Lompoc Upland sub-basin.
15. The proposed revisions to the existing waste discharge requirements incorporate a description of the updated wastewater treatment system, revised effluent limits, and an updated the monitoring and reporting program. Waste Discharge Requirements Order No. 97-35 regulates the Discharger, adopted by the Board on October 24, 1997. The Board has regulated this discharge since 1978.

A.3 SITE/FACILITY DESCRIPTION

16. **Facility** – MHCSO owns and operates a 21-acre WWTP that currently discharges approximately 250,000 gallons per day (gpd) of treated wastewater to the Lompoc Plain groundwater sub-basin, in Santa Barbara County.
17. **Discharge Type** – Domestic wastewater from 1265 residences.
18. **Design** – Wastewater treatment includes a head works facility (e.g. screen and comminution) and two lined facultative lagoons with aerators (Pond 1 with baffles and Pond 2 no baffles). The wastewater discharges to eight evaporation/percolation ponds (Ponds 3 through 10) shown in Figures 3 and 4.
19. **Current Flow Capacity** – The WWTP treats up to 400,000 gpd of domestic wastewater daily. The facility has a disposal capacity of 570,000 gpd of domestic wastewater daily. On average, the facility is operating at 68 percent of the available flow capacity (Table 1).

Table 1 – Treatment Pond Influent Average Annual Flow

Year	Influent Average Annual Flow (gallons per day)
2011	241,473
2012	279,050
2013	303,742
2014	300,556
2015	307,054
2016	267,199
2017	230,000
2018	220,000
Average for 2011-2018	273,322

20. **Treatment System Water Quality** – Table 2 shows the average Pond 2 effluent concentrations for various constituents analyzed from samples collected in 2016 and 2017.

Table 2 – Treatment Pond Water Quality

Constituent	Influent	Effluent	2016/2017 Average Percent Reduction
Biochemical Oxygen Demand (mg/L)	282 ^A	33 ^B	88
Total Suspended Solids (mg/L)	278 ^B	92 ^C	67
Total Nitrogen (mg/L)	73 ^B	16 ^B	78
Total Dissolved Solids (mg/L)	1187 ^B	876 ^B	26
Sodium (mg/L)	224 ^B	171 ^B	24
Chloride (mg/L)	390 ^B	254 ^B	35

A = 2016-2017 (11 samples); B = 2016-2017 (24 samples); C = 2016-2017 (21 samples)

21. **Wastewater Treatment System Design Objectives** – The May 1985 Operation and Maintenance Manual for the Mission Hills Community Services District, documents the facilities design objectives (Table 3). The wastewater treatment plant is designed to treat 400,000 gpd and dispose of 570,000 gpd. At 400,000 gpd, the hydraulic retention time for treatment Ponds 1 and 2 is 6.9 and 9.8 days respectively.

Table 3 – Treatment Pond Design Objectives

	Biochemical Oxygen Demand (mg/L)	Total Suspended Solids (mg/L)	Settleable Solids (ml/L)
Influent	250	250	--
Effluent	30	30	0.3
Percent Reduction	88	88	None Calculated

The 1985 designs for the WWTP do not include treatment considerations for nitrogen, total dissolved solids, sodium, or chloride.

22. **Collection System** – The WWTP collects domestic wastewater from 1265 residences across approximately 800 acres. The Discharger must comply with the requirements of

State Water Resources Control Board (State Water Board) Order No. 2006-0003-DWQ, Statewide General Waste Discharge Requirements for Sanitary Sewer Systems, including monitoring and reporting requirements as amended by State Water Board Order WQ 2013-0058-EXEC and any subsequent order.

23. **Wastewater Disposal** – The Discharger's wastewater disposal system consists of two sets of ponds: (a) Ponds No. 3-7 at the La Purisima Canyon site (Figure 3), and (b) Ponds No. 8-10 at the Rucker site (Figure 4). The five La Purisima Canyon ponds are located adjacent to the treatment facility; the three Rucker ponds are located approximately 1.5 miles southwest of the treatment facility, adjacent to the Santa Ynez River. A sewer pipe between the La Purisima Canyon pond site and the Rucker pond site is maintained through periodic discharge of potable water. Both the La Purisima Canyon and Rucker ponds percolate into the Lompoc Plain sub-basin.
24. **Solid Waste Disposal** – The Discharger intermittently removes sludge from the ponds and hauls the sludge to a facility approved to receive biosolids.
25. **Recycling** – The Discharger recycles wastewater to ground through percolation.
26. **Geology** – The La Purisima Canyon wastewater treatment and disposal system is physically located above both the Lompoc Plain sub-basin and the Lompoc Upland sub-basin. The ponds are situated on level topography (less than three percent slope) consisting of moderately low permeability, sandy-silt soils to a depth of 25 feet. The remainder of the soil profile is low to moderate permeability sandy material to a depth of approximately 200 feet, where a sandy-clay layer is present. A blue clay is found at approximately 200 feet that "sits" over the Lompoc Upland sub-basin and is considered an "aquitard" that restricts the flow of groundwater between the Lompoc Plain sub-basin (upper basin) and the Lompoc Upland sub-basin (lower basin) as shown in Figures 5, 6, and 7.

Water supply for the area comes from three wells drawing water from the Lompoc Upland sub-basin (MHCSO #5, #6, and #7) located as shown on Figure 6.

The Rucker ponds are located above the Lompoc Plain sub-basin. The Rucker ponds are located on level topography (less than three percent slope) with high permeability sandy soil adjacent to the Santa Ynez River.

28. **Surface Water** – There is an intermittent unnamed Creek (locally referred to as Los Berros Creek) in Purisima Canyon that drains to the Santa Ynez River. The creek is adjacent to the eastern edge of the La Purisima Canyon ponds, approximately 70 feet east of the evaporation/percolation ponds and flows in a southerly direction.

The Santa Ynez River is adjacent to the southern edge of the Rucker ponds, approximately 125 feet south of the evaporation/percolation ponds and flows in a westerly direction.

29. **Groundwater**
- a) The MHCSO La Purisima Canyon ponds and the Rucker ponds discharge to the Lompoc Plain sub-basin (Figure 5). The depth to groundwater underneath the La Purisima Canyon ponds is approximately 180 feet and underneath the Rucker ponds

is approximately 40 feet. Groundwater beneath both sets of ponds flows generally in a southwest direction. Red arrows on Figure 6 show the general direction of groundwater flow.

- b) Table 4 highlights "Median Groundwater Objectives" for both the Lompoc Plain and the Lompoc Upland sub-basins as found in "Table 3-6, Median Groundwater Objectives, Water Quality Control Plan for the Central Coastal Basin (Basin Plan)", as amended March 2017.

Table 4 – Lompoc Plain/Lompoc Upland Sub-Basins Median Groundwater Objectives

Constituent	Units	Lompoc Plain Sub-Basin	Lompoc Upland Sub-Basin
Total Dissolved Solids	mg/L	1250	600
Chloride	mg/L	250	150
Sulfate	mg/L	500	100
Boron	mg/L	0.5	0.5
Sodium	mg/L	250	100
Nitrogen	mg/L	2	2

- c) Water wells in the area around the La Purisima Canyon ponds site include:
- i. Downgradient groundwater well (MHCSD MW#1) is approximately 1000 feet to the southeast of the ponds.
- d) Water supply wells in the area around the Rucker ponds site include:
- ii. Two private wells approximately 1,000 feet southeast of the site;
 - iii. An irrigation well approximately 600 feet southwest of the site;
 - iv. An irrigation well approximately 1500 feet northeast of the site; and
 - v. The City of Lompoc Well No. 8 approximately 2,500 feet southwest of the site.
- e) MHCSD constructed monitoring well number 1 (MW#1) in 2011 (Figure 6). It is set at 220 feet with the well screened from approximately 160 to 220 feet in the Lompoc Plain sub-basin. From 2011 through 2018 MHCSD collected and analyzed samples from MW#1. Table 5 shows the range, average, and median concentrations for the samples analyzed:

Table 5 – Monitoring Well No. 1 Water Quality Data

	Total Dissolved Solids (mg/L)	Chloride (mg/L)	Sodium (mg/L)	Total Nitrogen (mg/L)
Average	533	160	95	2.6
Range	250-870	61-270	39-150	1.2-7.6
Median	430	145	96	1.8

Results based on 30 to 26 samples depending on constituent (Total Dissolved Solids = 30, Chloride and Sodium = 28, Total Nitrogen = 26)

- f) MHCSD provides drinking water to 1265 residences within their service area. MHCSD currently pumps groundwater from three active wells (MHCSD #5, #6, and #7) in the Lompoc Upland sub-basin (Figure 6). Well #5 is 540 feet deep and screened from 280 to 530 feet. Well #6 is 590 feet deep and screened from 290 to 590 feet. Well #7 is 585 feet deep and screened from 305 to 585 feet. Table 6 shows the groundwater quality for these active wells:

Table 6 – MHCSO Combined Water Supply Groundwater Data Wells #5, #6, and #7

	Total Dissolved Solids (mg/L)	Chloride (mg/L)	Sulfate (mg/L)	Boron (mg/L)	Sodium (mg/L)	Nitrate (NO ₃ as N) (mg/L)
Average	525 ¹	108 ¹	No Data	No Data	95 ²	1.4 ²
Range	380-640 ¹	60-134 ¹			77-120 ²	ND-3.92 ²
Average	634 ³	162 ³			82 ³	2.1 ³
Range	603-710 ³	132-210 ³			79-95 ³	0.6-3.5 ³
Median	622 ³	159 ³			80 ³	2.2 ³

1 Boyle 2004 Report (data from 1993-2003)/ MHCSO Analytical Data (data from 2004-2013)

2 MHCSO 2016 Consumer Confidence Report

3 MHCSO 2016-2018, WWTP Annual Reports (eight samples)

4 ND = Non-detect

30. **Stormwater** – Overland stormwater flows do not flow into the ponds. The Discharger is not required to enroll in the Industrial General Permit (NPDES CAS) for stormwater discharges unless they exceed 1 million gallons per day or they are required to have an approved industrial pretreatment program (40 Code of Federal Regulations section 403).
31. **Land Uses** – In the area surrounding the La Purisima Canyon ponds discharge, land is used for housing, school buildings, La Purisima Mission State Historic Park, open areas (e.g., woods, shrubs, etc.), sports fields, and agriculture areas. The La Purisima Canyon ponds are more than a quarter mile from the nearest residence.

In the area surrounding the Rucker ponds discharge, land is used for agriculture. The Rucker ponds are more than two miles from the nearest residence.

A.4 CHANGES TO ORDER

32. Changes in Order No. R3-2019-0042 include:

- **WWTP Plant Capacity** - Updated description of the wastewater treatment and disposal system capacity (Table 7).

Table 7 – MHCSO WWTP Plant Capacity

Parameter	Existing Capacity	Documented Capacity
Plant Capacity	570,000 gpd	400,000 gpd - Treatment ^A 570,000 gpd – Disposal ^B

A = 1985 Operation and Maintenance Manual for the Mission Hills Community Services District

B = 1991 request from Discharger to increase disposal capacity from 400,000 gpd to 570,000 gpd

- **Rucker ponds** – Inclusion of Rucker ponds as long-term wastewater disposal option and a provision that allows MHCSO to discharge potable water to the Rucker ponds for line maintenance without prior written approval. Dates, types (e.g. potable water, wastewater), and volumes of discharge to Rucker ponds must be reported in the quarterly monitoring reports.

- **Effluent limits** – Table 8 shows revised effluent limits for sodium, chloride, and total dissolved solids.

Table 8 – MHCSD Effluent Limits

Constituent	Existing Effluent Limits	New Effluent Limits
Total Dissolved Solids	800 mg/L 30-day average	990 mg/L 25-Month Rolling Median
	1050 mg/L Daily Maximum	1250 mg/L ^C Daily Maximum
Sodium	200 mg/L 30-day average	200 mg/L 25-Month Rolling Median
	300 mg/L Daily Maximum	250 mg/L ^C Daily Maximum
Chloride	140 mg/L 30-day average	250 mg/L ^C 25-Month Rolling Median
	250 mg/L Daily Maximum	300 mg/L Daily Maximum

C = median water quality objective for the Lompoc Plain sub-basin

- **Groundwater Quality Objectives** – Revised groundwater quality objectives for total nitrogen (as N).

Table 9 – Groundwater Quality Objectives

Constituent	Existing groundwater objectives	Proposed groundwater objectives
Groundwater Total Nitrogen	8 mg/L ^D	2 mg/L ^E

D = median water quality objective for the Santa Maria sub-basin

E = median water quality objective for the Lompoc Plain sub-basin

- **Biosolids** – Revised requirements confirming that the Discharger is responsible for ensuring that all biosolids produced at its facility are used or disposed of in accordance with 40 Code of Federal Regulations part 503 biosolids regulations, whether the Discharger uses or disposes of the biosolids itself or transfers them to another party for further treatment, use, or disposal.

A.5 BASIN PLAN BENEFICIAL USES AND WATER QUALITY OBJECTIVES

33. The Central Coast Water Board has adopted the *Water Quality Control Plan for the Central Coastal Basin* (Basin Plan), which designates beneficial uses, establishes water quality objectives, and contains implementation programs and policies to achieve those objectives for receiving waters within the central coast region.
34. Historical beneficial uses of groundwater near the discharge include:
 - a. Municipal and Domestic Water
 - b. Agricultural Water Supply
 - c. Industrial Use

35. Existing groundwater quality objectives in the Lompoc Plain sub-basin are shown in Table 10:

Table 10 –Lompoc Plain Sub-Basin Median Groundwater Quality Objectives

Constituent	Units	Concentration
Total Dissolved Solids	mg/L	1250
Chloride	mg/L	250
Sulfate	mg/L	500
Boron	mg/L	0.5
Sodium	mg/L	250
Nitrogen	mg/L	2

36. Present and anticipated beneficial uses of the unnamed tributary (i.e. Los Berros Creek) include:

- a. Municipal and Domestic Supply
- b. Water Contact Recreation
- c. Non-Contact Water Recreation
- d. Cold Freshwater Habitat
- e. Warm Freshwater Habitat

37. Present and anticipated beneficial uses of the Santa Ynez River include:

- a. Municipal and Domestic Supply
- b. Agricultural Supply
- c. Industrial Process Supply
- d. Industrial Service Supply
- e. Groundwater Recharge
- f. Water Contact Recreation
- g. Non-Contact Water Recreation
- h. Wildlife Habitat
- i. Cold Freshwater Habitat
- j. Warm Freshwater Habitat
- k. Migration of Aquatic Organisms
- l. Spawning, Reproduction, and/or Early Development
- m. Freshwater Replenishment
- n. Commercial and Sport Fishing

Surface water quality objectives for the listed beneficial uses for both the unnamed tributary and the Santa Ynez River are found in Chapter 3 of the Basin Plan. The Basin Plan can be reviewed at:

http://www.waterboards.ca.gov/centralcoast/publications_forms/publications/basin_plan/index.shtml

A.6 RECYCLED WATER POLICY

38. The State Water Resources Control Board adopted the Recycled Water Policy on February 3, 2009, and then amended the Policy on January 22, 2013.

39. It is the intent of the Recycled Water Policy that salts and nutrients from all sources be managed on a basin-wide or watershed-wide basis in a manner that ensures attainment of water quality objectives and protection of beneficial uses. The State Water Board found that the appropriate way to address salt and nutrient management is through developing regional or sub-regional salt and nutrient management plans rather than through imposing requirements solely on individual projects.
40. The State Water Board approved an amendment to the Recycled Water Policy on December 11, 2018. The amendment will not be effective until it is approved by the Office of Administrative Law.
41. The Central Coast Water Board finds that a combination of regional management plans and individual or programmatic project requirements may be necessary to protect beneficial uses.
42. The Recycled Water Policy calls for the development of locally driven and controlled collaborative processes open to all stakeholders that will prepare salt and nutrient management plans for each basin/sub-basin in California.
43. A large number of technical reports and data contained within Central Coast Water Board files document widespread and increasing salt and nutrient impacts within the groundwater basins throughout the Central Coast Region, including the Lompoc Plain sub-basin.
44. MHCSO is involved in the development of the Santa Ynez River Valley Conservation District (SYRWCD) and the Sustainable Groundwater Management Act (SGMA) for the Santa Ynez Groundwater basin. Therefore, MHCSO does not need to prepare an individual analysis of salts and nutrients and management practices to address salts and nutrients in groundwater.

A.7 ANTIDegradation Policy

45. State Water Board Resolution No. 68-16 (*Statement of Policy with Respect to Maintaining High Quality of Waters in California*) requires regional water quality control boards, in regulating discharges of waste, to maintain high quality waters of the state unless it is demonstrated that any change in quality will be consistent with the maximum benefit to the people of the state, will not unreasonably affect beneficial uses, and will not result in water quality less than that described in a regional water quality control board's policies (i.e., quality that exceeds applicable water quality standards). Resolution No. 68-16 also states, in part:

Any activity which produces or may produce a waste or increased volume or concentration of waste and which discharges or proposes to discharge to existing high quality waters will be required to meet waste discharge requirements which will result in best practicable treatment and control of the discharge necessary to assure that (a) pollution or nuisance will not occur and (b) the highest water quality consistent with maximum benefit to the people of the State will be maintained.

The discharge regulated by this Order is subject to waste discharge requirements that will result in treatment, control, prevention of pollution and nuisance, and maintenance of

water quality consistent with maximum benefit to the people of the state. As such, these waste discharge requirements are consistent with the provisions of Resolution No. 68-16.

This Order requires best practicable treatment or control, which will ensure that pollution or nuisance will not occur. The facility is required to meet effluent limitations identified in the **Requirements** section of this Order.

The Monitoring and Reporting Program of this Order requires the Discharger to collect representative samples to ensure compliance with effluent limitations and water quality objectives of the receiving water.

A.8 ENVIRONMENTAL SUMMARY

46. In February 1982, the Discharger approved an Initial Study and Negative Declaration for improvement and expansion of the wastewater treatment facility in accordance with the California Environmental Quality Act (CEQA, Public Resources Code, section 21000, et seq) and the California Water Code section 13389. The Discharger determined that there are no significant adverse environmental effects or that all potentially significant adverse effects can be avoided through the implementation of mitigation measures. This Order implements mitigation measures to prevent nuisance and ensure protection of beneficial uses of surface and groundwater.

A.9 CLIMATE CHANGE ADAPTATION

47. MHCSO wastewater treatment plant is situated approximately 325 feet above sea level and is not susceptible to sea-level rise or flooding hazards from rising sea levels. However, the wastewater collection system, regulated under State Water Board Order No. 2006-0003-DWQ, does have the potential to be impacted (e.g. increased inflow and infiltration) by highly variable precipitation that may result from climate change. Central Coast Water Board staff will work with State Water Board staff to ensure Order No. 2006-0003-DWQ addresses climate change issues when it is revised.

A.10 TOTAL MAXIMUM DAILY LOADS

48. Total maximum daily load (TMDL) allocations are being developed for impaired surface waters in the Santa Ynez River Basin. TMDL documents will allocate responsibility for pollutant loading throughout the watershed or applicable sub-watersheds. If the TMDLs determine pollutant contributions from waste discharged may adversely impact beneficial uses or exceed water quality objectives, changes to these waste discharge requirements may be required. Waste discharge requirements may be modified to implement applicable TMDL provisions and recommendations.

A.11 MONITORING AND REPORTING PROGRAM

49. Proposed Monitoring and Reporting Program No. R3-2019-0042 includes additional constituents for the water supply monitoring, influent monitoring, effluent monitoring, groundwater monitoring, and biosolids monitoring. Reporting is reduced from monthly to quarterly. All reports/documents and laboratory data must be submitted electronically to the State Water Board's GeoTracker database. Also, within 36 months from the date of adoption of the Order and prior to discharging to Rucker Ponds, MHCSO must submit a

proposed operation and maintenance program for the Rucker Ponds for review and approval by the Executive Officer.

A.12 EXISTING ORDERS AND GENERAL FINDINGS

50. The Discharger is currently regulated under Waste Discharge Requirements Order No. 97-35, adopted by the Board on October 24, 1997. The Board has regulated this discharge since 1978.
51. Discharge to the waters of the state is a privilege, not a right, and authorization to discharge is conditional upon the discharge's complying with provisions of Division 7 of the California Water Code and any more stringent effluent limitations necessary to implement water quality control plans, to protect beneficial uses, and to prevent nuisance. Compliance with this Order should ensure this and mitigate any potential adverse changes in water quality due to the discharge.
52. On February 11, 2019, the Central Coast Water Board notified the Discharger and interested agencies and persons of its intent to issue waste discharge requirements for the discharge and has provided them with a copy of the proposed Order and an opportunity to submit written views and comments.
53. After considering all comments pertaining to this discharge during a public hearing on May 9-10, 2019, this Order was found consistent with the above findings.

Requirements

B. REQUIREMENTS

THEREFORE, IT IS HEREBY ORDERED that, pursuant to authority in the California Water Code, division 7, including sections 13263, 13267, and 13523, Mission Hills Community Service District and its agents and successors and shall comply with the following:

Order No. R3-2019-0042, with MRP R3-2019-0042, are effective as of the date signed, and, to meet the provisions contained in division 7 of the California Water Code (commencing with section 13000), the MHCSD shall comply with the requirements in this Order.

All technical and monitoring reports submitted pursuant to this Order are required pursuant to section 13267 of the California Water Code. Failure to submit reports in accordance with schedules established by this Order or attachments to this Order, or failure to submit a report of sufficient technical quality to be acceptable to the Executive Officer, may subject the Discharger to enforcement action pursuant to section 13268 of the California Water Code.

Note: General permit conditions, definitions and the method of determining compliance are contained in "Standard Provisions and Reporting Requirements for Waste Discharge Requirements," dated December 2013, referenced in section B.3 Provisions, Item 31 of this Order.

These requirements are superscripted to indicate the source of requirements. Requirement superscripts are as follows:

ROWD = Report of Waste Discharge
CWC = California Water Code
BP = Basin Plan (Water Quality Control Plan for the Central Coastal Basin)

Requirements without superscripts are based on staff's professional judgment.

B.1 PROHIBITIONS

1. Discharge to areas other than disposal areas shown in Figures 3 and 4 is prohibited.^{CWC}
2. Discharge of any wastes including overflow, bypass seepage, overspray and runoff from transport, treatment, or disposal systems to adjacent properties, adjacent drainage ways, or to waterways is prohibited.^{CWC}
3. Discharge of untreated or partially treated wastewater is prohibited.^{CWC}
4. Bypass of the wastewater treatment system and discharge of untreated or partially treated wastes directly to the evaporation/percolation ponds is prohibited.
5. Discharge of wastes other than domestic wastewater is prohibited.
6. Discharge of wastes other than those described in the Findings of this Order is prohibited.^{CWC}

7. Discharge or storage of waste in a manner promoting nuisance and vector development is prohibited.
8. Discharge of any wastewater within 100 feet of any domestic, agricultural, industrial or commercial water supply well is prohibited.

B.2 SPECIFICATIONS

B.2.1 Effluent Limitations

9. Daily flow averaged over each month shall not exceed 400,000 gallons per day.^{ROWD}
10. Effluent discharged to the disposal system shall not exceed the following limitations (Table 11):

Table 11 – Effluent Limitations

Constituent	Units	25-Month Rolling Median	30-Day Monthly Average	Sample Maximum
Biochemical Oxygen Demand (BOD), 5-Day	mg/L	—	80 ^A	120
Total Suspended Solids (TSS)	mg/L	—	80 ^A	120
Settleable Solids	ml/L	—	0.3 ^B	0.5
Total Nitrogen (as N)	mg/L	—	10 (May-Sep) ^C	20 (May-Sep) ^C
		—	15 (Oct-Apr) ^C	30 (Oct-Apr) ^C
Total Dissolved Solids	mg/L	990 ^D	—	1250 ^{BP}
Sodium	mg/L	200 ^D	—	250 ^{BP}
Chloride	mg/L	250 ^{BP}	—	300 ^E
Range				
pH	units	less than 6.5 or greater than 8.4 ^{BP}		

A = Central Coast Water Board Order No. 84-76 established this effluent limit in 1984 based on four samples collected and analyzed for BOD and TSS.

B = May 1985 Operation and Maintenance Manual for the Mission Hills Community Services District.

C = Central Coast Water Board Order No. 97-35 established these effluent limits in 1997 based on six samples collected and analyzed for total nitrogen.

D = 25-Month rolling median consistent with the 2014/2018 effluent median concentration.

E = Highest average value derived from MHCSD effluent data for composite samples (Ponds 3-7) from 2014-2017.

B.2.2 Groundwater Limitations

Receiving water quality is a result of many factors, some unrelated to the discharge. This permit considers these factors and is designed to minimize the influence of the discharge to receiving waters.

11. The discharge shall not cause groundwater to contain taste or odor producing substances in concentrations that adversely affect beneficial uses.^{BP}
12. The discharge shall not cause concentrations in ground water downgradient of the disposal area to exceed any of the concentrations for constituents in Table 12 below:

Table 12 – Lompoc Plain sub-basin Median Groundwater Objectives^{BP}

Constituent	Units	Lompoc Plain Sub-Basin Concentration
Boron	mg/L	0.5
Chloride	mg/L	250
Sodium	mg/L	250
Sulfate	mg/L	500
Total Dissolved Solids	mg/L	1250
Nitrogen as (N)	mg/L	2

Median water quality objectives must be determined using a five-year rolling median with a minimum of 12 sample points.

13. The discharge shall not cause groundwater to contain concentrations of organic chemicals in excess of the maximum contaminant levels for primary drinking water standards specified in California Code of Regulations, Title 22, Division 4, Chapter 15, Article 5.5, Section 64444, Table 64444-A. This incorporation-by-reference is prospective, including future changes to the incorporated provisions as the changes take effect.^{BP}
14. The discharge shall not cause groundwater to contain concentrations of inorganic chemicals in excess of the maximum contaminant levels for primary drinking water standards specified in California Code of Regulations, Title 22, Division 4, Chapter 15, Sections 64431 and 64433.2. This incorporation-by-reference is prospective, including future changes to the incorporated provisions as the changes take effect.^{BP}
15. The discharge shall not cause groundwater to contain concentrations of radionuclides in excess of the limits specified in California Code of Regulations, Title 22, Division 4, Chapter 15, Article 5, Section 64443. This incorporation-by-reference is prospective, including future changes to the incorporated provisions as the changes take effect.^{BP}
16. The discharge shall not cause groundwater to contain concentrations of chemical constituents in amounts that adversely affect the agriculture beneficial use. Interpretation of adverse effect shall be as derived from the University of California Agricultural Extension Service guidelines provided in Table 3-1 of the Basin Plan.

In addition, water used for irrigation and livestock watering shall not exceed the concentrations for those chemicals listed in Table 3-2 of the Basin Plan. No controllable water quality factor shall degrade the quality of any groundwater resource or adversely affect long-term soil productivity. The salinity control aspects of groundwater management will account for effects from all sources.^{BP}

17. The discharge shall not cause a statistically significant increase in mineral constituent concentrations in underlying groundwater, as determined by comparison of samples collected from wells located upgradient and downgradient of the disposal area.^{BP}
18. The discharge shall not cause underlying groundwater to contain concentrations of constituents in excess of water quality objectives listed in Table 3-6 of the Basin Plan.

B.2.3 System Operations Specifications (e.g. standby power, backup pumps, alarms, etc.)

19. Power system alarm and lift station alarms shall be serviced on a regular schedule to confirm operation.
20. Backup generator shall be serviced on a regular schedule to confirm operation.

B.2.4 Solids/Solid Waste Control (Biosolids¹)

21. Sampling Plan

For accumulated, previously untested biosolids, the Discharger shall develop a representative sampling plan, including number and location of sampling points, and collect representative samples and submit the information to the Central Coast Water Board for Executive Officer approval.

Before operation begins and before any change in disposal practices (location, process, frequency), the Discharger is to submit all sludge disposal site information to the Central Coast Water Board for Executive Officer approval.

22. Biosolids Management

- i. The handling, treatment, use, management, and disposal of sludge and solids derived from wastewater treatment must comply with applicable provisions of Clean Water Act section 405 and USEPA regulations at 40 Code of Federal Regulations parts 257, 258, 501, and 503, including all monitoring, record keeping, and reporting requirements.
- ii. Sludge and wastewater solids must be disposed of in a municipal solid waste landfill, reused by land application, or disposed of in a sludge-only landfill in accordance with 40 Code of Federal Regulations parts 258 and 503 and Title 23, Chapter 15 of the California Code of Regulations. If the Discharger desires to dispose of solids and/or sludge in a different manner, a request for permit modification must be submitted to the USEPA and to the Central Coast Water Board at least 180 days prior to beginning the alternative means of disposal.
- iii. Sludge that is disposed of in a municipal solid waste landfill must meet the requirements of 40 Code of Federal Regulations part 258 pertaining to providing information to the public. In the annual self-monitoring report, the Discharger shall include the amount of sludge placed in the landfill as well as the landfill to which it was sent.
- iv. All requirements of 40 Code of Federal Regulations part 503 and 23 California Code of Regulations Chapter 15 are enforceable whether or not the requirements of those regulations are stated in an NPDES permit or any other permit issued to the Discharger.

¹ **Biosolids** - Sewage sludge that has been treated, tested, and meets:

1. The Ceiling Concentration Limits in Table 1 of 40 Code of Federal Regulations section 503.13;
2. The Class A or Class B pathogen control requirements in 40 Code of Federal Regulations part 503.32(a) or (b); and
3. One of the Vector Attraction Reduction requirements in 40 Code of Federal Regulations part 503.33(b)(1—8).

- v. The Discharger shall take all reasonable steps to prevent and minimize any sludge use or disposal in violation of this Order that has a likelihood of adversely affecting human health or the environment.
- vi. Solids and sludge treatment, storage, and disposal or reuse shall not create a nuisance, such as objectionable odors or flies, and shall not result in groundwater contamination.
- vii. The solids and sludge treatment and storage site shall have adequate facilities to divert surface water runoff from adjacent areas to protect the boundaries of the site from erosion, and to prevent drainage from the treatment and storage site. Adequate protection is defined as protection, at the minimum, from a 100-year storm and protection from the highest possible tidal stage that may occur.
- viii. The discharge of sewage sludge and solids shall not cause waste material to be in position where it is, or can be, conveyed from the treatment and storage sites and deposited in waters of the State.
- ix. The Discharger shall submit an annual report to the Central Coast Water Board containing monitoring results and pathogen and vector attraction reduction requirements, as specified by 40 Code of Federal Regulations part 503. The Discharger shall also report the quantity of sludge removed from the Facility and the disposal method.

B.2.5 Disposal Area

- 23. The treatment, storage, and disposal facilities shall be managed to exclude the public and posted to warn the public of the presence of wastewater.
- 24. Discharge of process wastewater shall not occur within 100 feet of any water well.^{BP}
- 25. Extraneous surface drainage shall be excluded from all wastewater treatment and evaporation/percolation ponds.^{BP}
- 26. Freeboard shall exceed two feet in all evaporation/percolation ponds and one foot in all treatment ponds.
- 27. Any potable water discharge to the Rucker ponds for line maintenance must be reported in monthly monitoring reports.
- 28. Prior to discharging wastewater to Rucker ponds, MHCSD must submit a proposed operation and maintenance program for the Rucker ponds for review and approval by the Executive Officer. No discharge of wastewater to Rucker ponds shall occur prior to Executive Officer written approval.

B.3 PROVISIONS

- 29. The requirements prescribed by this Order (No. R3-2019-0042) supersede requirements prescribed by Order No. 97-35, adopted by the Regional Board on October 24, 1997. Order No. 97-35, Waste Discharge Requirements for the Mission Hills Community Services District, Santa Barbara County, is hereby terminated except for enforcement purposes.

30. The Discharger shall comply with Monitoring and Reporting Program No. R3-2019-0042, as specified by the Executive Officer.
31. The Discharger shall comply with all items of "Standard Provisions and Reporting Requirements for Waste Discharge Requirements" dated December 2013 (and any updates to the Standard Provisions), except Items Provisions, A.6. and General Reporting Requirements, C.8. A copy of Standard Provisions and Reporting Requirements for Waste Discharge Requirements is available electronically at the following link:

https://www.waterboards.ca.gov/centralcoast/board_decisions/docs/wdr_standard_provisions_2013.pdf
32. A copy of this Order, the MRP, and Standard Provisions shall be kept at the discharge facility for reference by operating personnel. Key operating and site management personnel shall be familiar with their content.
33. The Discharger shall operate and maintain all wastewater facilities in accordance with an Operations Manual for the treatment facility that is subject to the approval of the executive Officer. The Operations Manual, including expected performance criteria and a copy of as-built plans, shall be kept on site and periodically updated whenever there is a change in operational procedures or an expansion of the system.
34. The discharger shall properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) to achieve compliance with this Order. Proper operation and maintenance practices include adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with this Order.
35. Wastewater treatment system repairs and expansions shall be made in accordance with the Basin Plan.
36. The discharger shall take all reasonable steps to prevent any discharge in violation of this Order.
37. The discharger shall furnish the Central Coast Water Board, within a reasonable time, any information that the Central Coast Water Board may request to determine compliance with this Order.
38. The discharger shall allow the Central Coast Water Board or its authorized representatives to:
 - a. Enter upon the discharger's premises where a regulated facility or activity is located or conducted, or where records pertinent to this permit are kept;
 - b. Inspect and photograph any facilities, equipment (including monitoring and control equipment), practices, or operations pertinent to this Order;
 - c. Have access to and copy any records pertinent to this permit; and

- d. Sample or monitor for the purposes of assuring permit compliance.
39. All reports or other documents required by this Order, and other information requested by the Central Coast Water Board shall be signed by either a principal executive officer or ranking elected official.
40. Any person signing a document makes the following certification, whether written or implied:
- "I certify under penalty of law this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."
41. In the event of any change in control or ownership of land or waste discharge facilities presently owned or controlled by the discharger, the discharger shall notify the succeeding owner or operator of the existence of this Order by letter, a copy of which shall be immediately forwarded to the Executive Officer.
42. Pursuant to Title 23, Chapter 3, Subchapter 9, of the California Code of Regulations, the Discharger must submit a written report to the Executive Officer not later than **May 31, 2029**, addressing:
- a) Whether there has been, or will be, any changes in the continuity, character, location, or volume of the discharge;
 - b) Whether there has been, or will be, any changes to the treatment or disposal processes and operations; and,
 - c) Whether, in their opinion, there is any portion of the Order that is incorrect, obsolete, or otherwise in need of revision.
43. Violations of these waste discharge requirements may result in enforcement actions as authorized under the California Water Code.
44. This Order does not authorize commission of any act causing injury to the property of another, does not convey any property rights of any sort, and does not remove liability under federal, state, or local laws.
45. Requirements of this Order are severable. If any requirement of the Order is found invalid, the remainder of the Order shall not be affected.
46. The Central Coast Water Board may review this Order at any time and may modify or terminate this Order as appropriate.

B.4 MONITORING AND REPORTING PROGRAM

47. Monitoring and Reporting Program No. R3-2019-0042 is a part of this Order. The Monitoring Program requires water supply, pond freeboard, influent, effluent, receiving water (groundwater), and solids sampling and analysis to verify compliance with this Order.
48. Quarterly monitoring reports are due on the 20th day of the month following the end of the quarter (e.g. data collected in January, February, and March is due April 20th).
49. An annual report summarizing the year's events and monitoring is due on January 30th of each year.
50. Reports (both technical and monitoring reports), shall be submitted electronically to both the Central Coast Water Board in a searchable PDF format and to the State Water Board's GeoTracker database over the Internet. Information on the GeoTracker database is available at:

http://www.waterboards.ca.gov/ust/electronic_submittal/index.shtml

51. The Executive Officer may review the Monitoring and Reporting Program at any time and may modify or terminate the Monitoring and Reporting Program as appropriate.

B.5 ENFORCEMENT

52. The requirements of this Order are subject to enforcement under Water Code sections 13261, 13263, 13264, 13265, 13268, 13350, 13300, 13301, 13304, 13350, and enforcement provisions in Water Code, Division 7, Chapter 7 (Water Reclamation).

B.6 EFFECTIVE DATE OF THE ORDER

53. This Order takes effect on May 9-10, 2019.

I, John M. Robertson, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, Central Coast Region on May 9-10, 2019.

John M. Robertson
Executive Officer

Figure 1 - Location of the Mission Hills Community Service District.

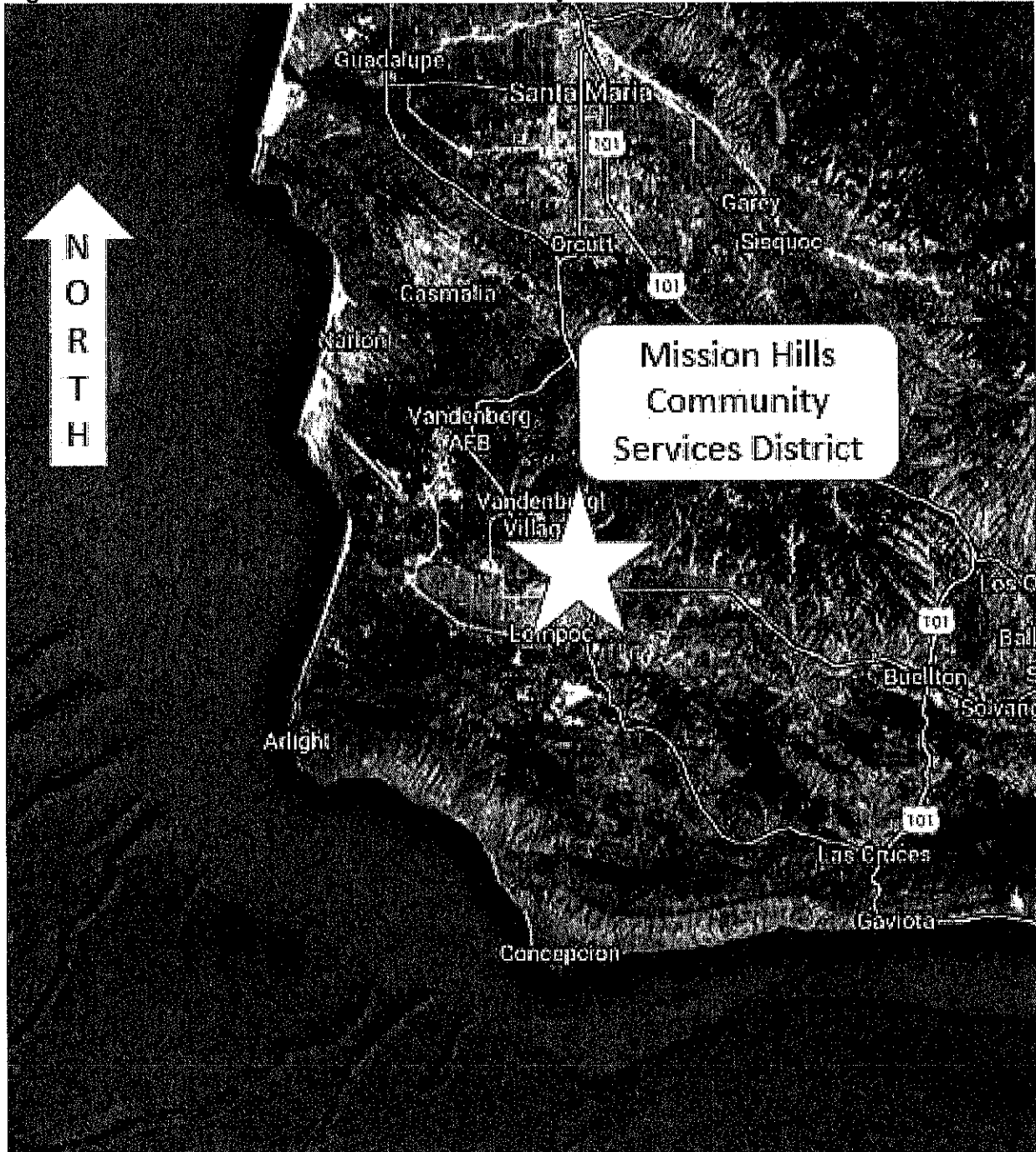


Figure 2 - Location of the Mission Hills Community Service District Facility and Rucker Ponds.

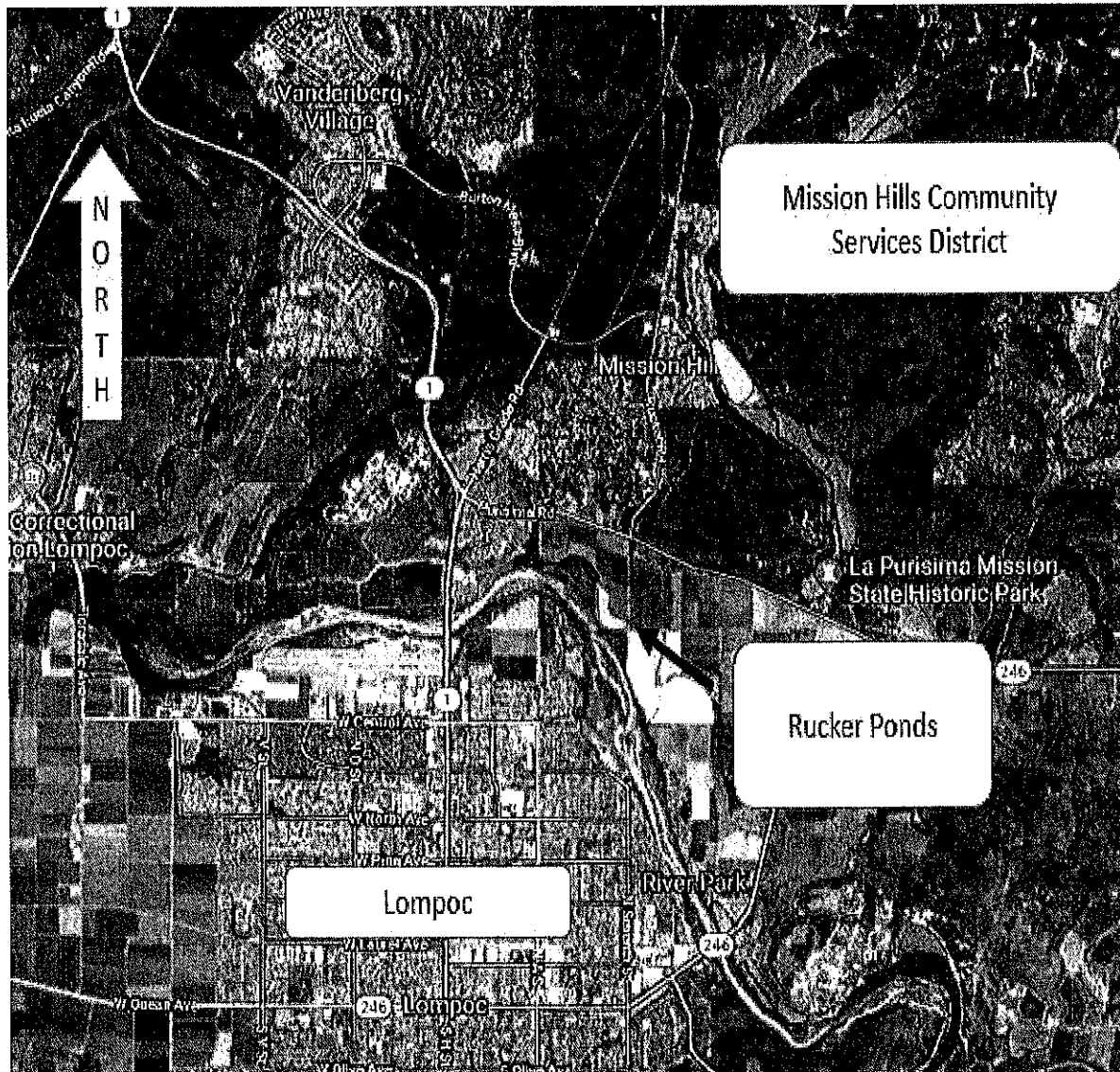


Figure 3 - Mission Hills Community Service District Wastewater Treatment and Disposal System. Treatment Ponds 1 and 2, Disposal Ponds 3, 4, 5, 6, and 7.

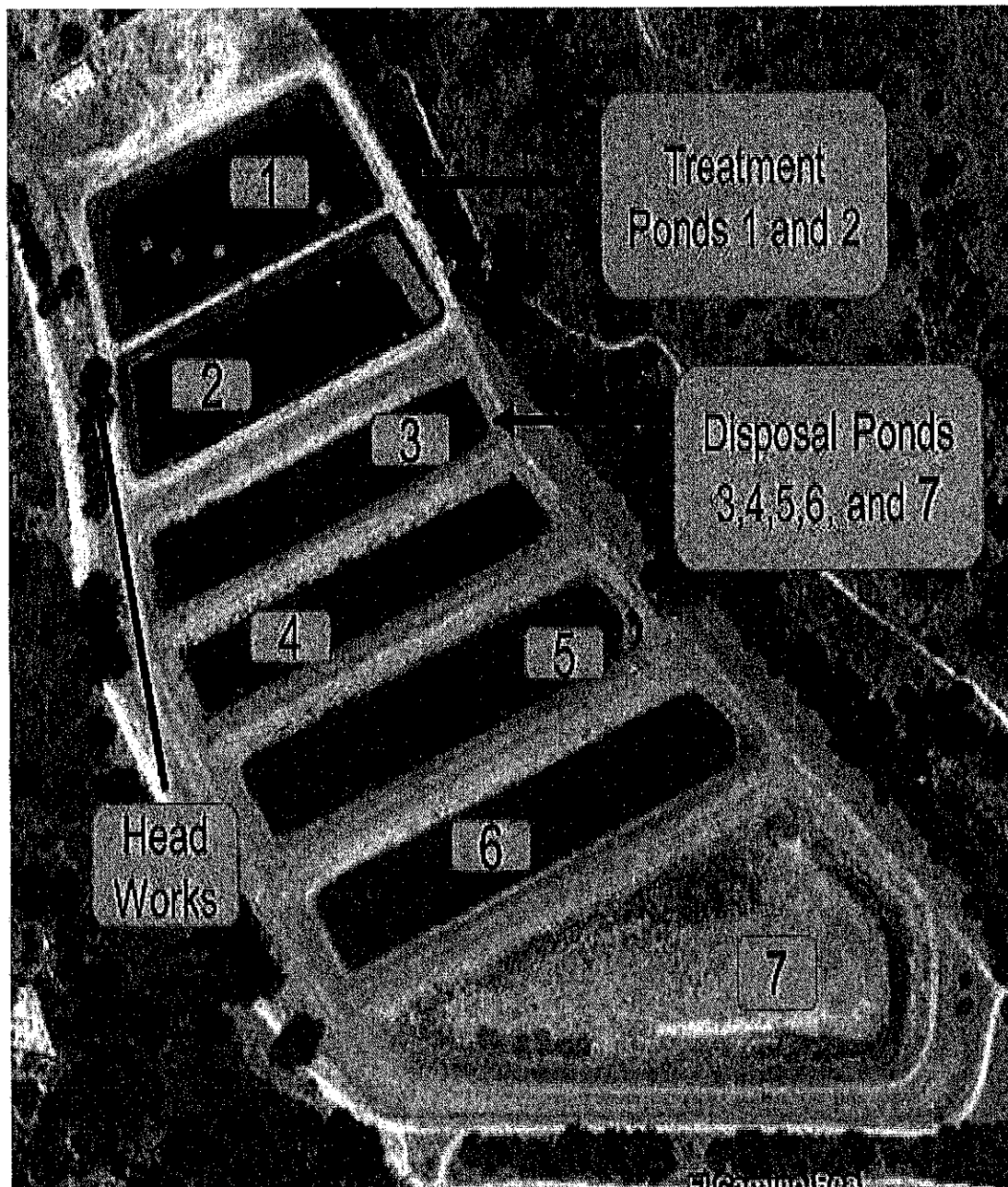


Figure 4 - Mission Hills Community Service District Wastewater Disposal Rucker Ponds 8, 9, and 10.

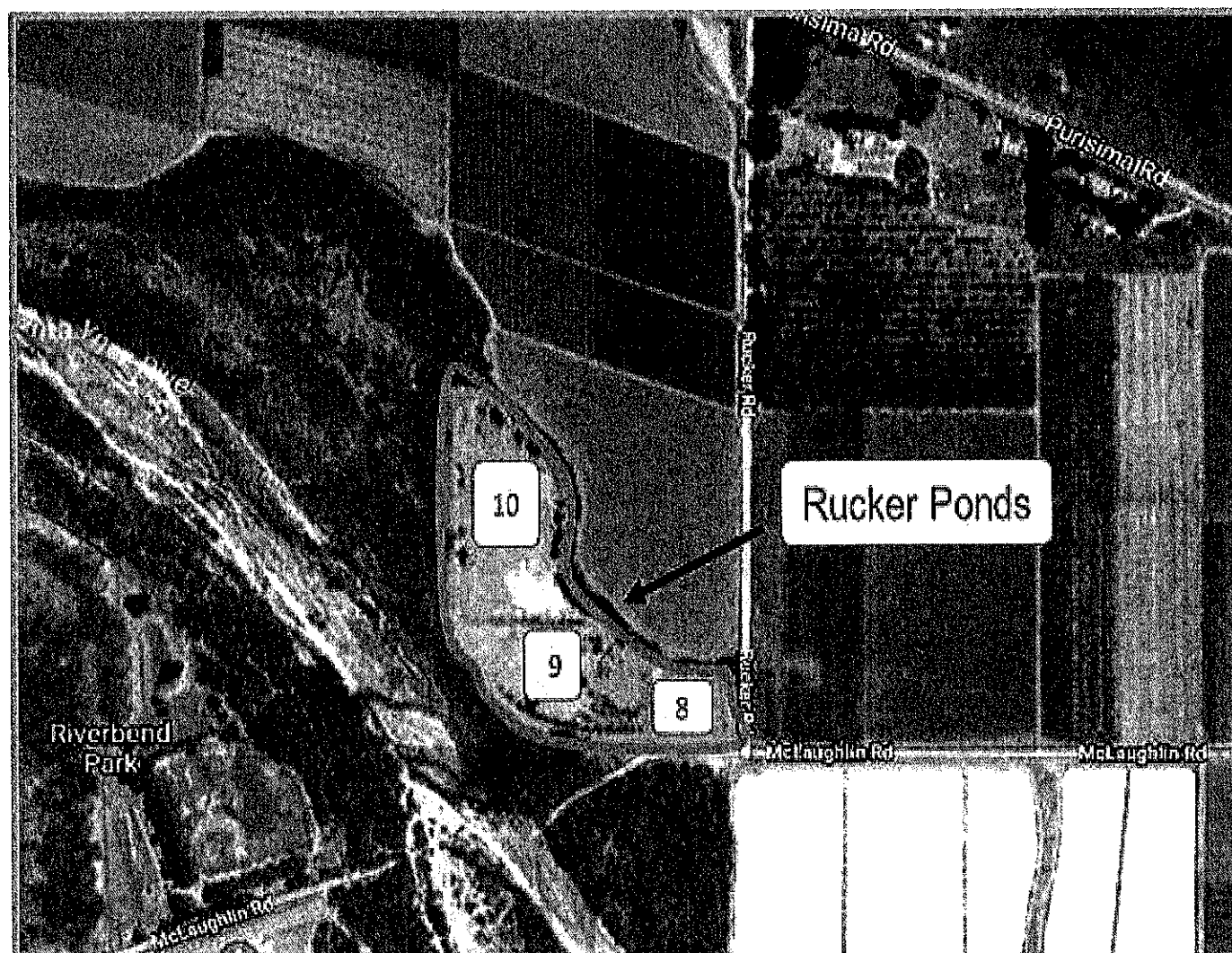


Figure 5 - Lompoc Plain and Lompoc Upland Sub-Basins.

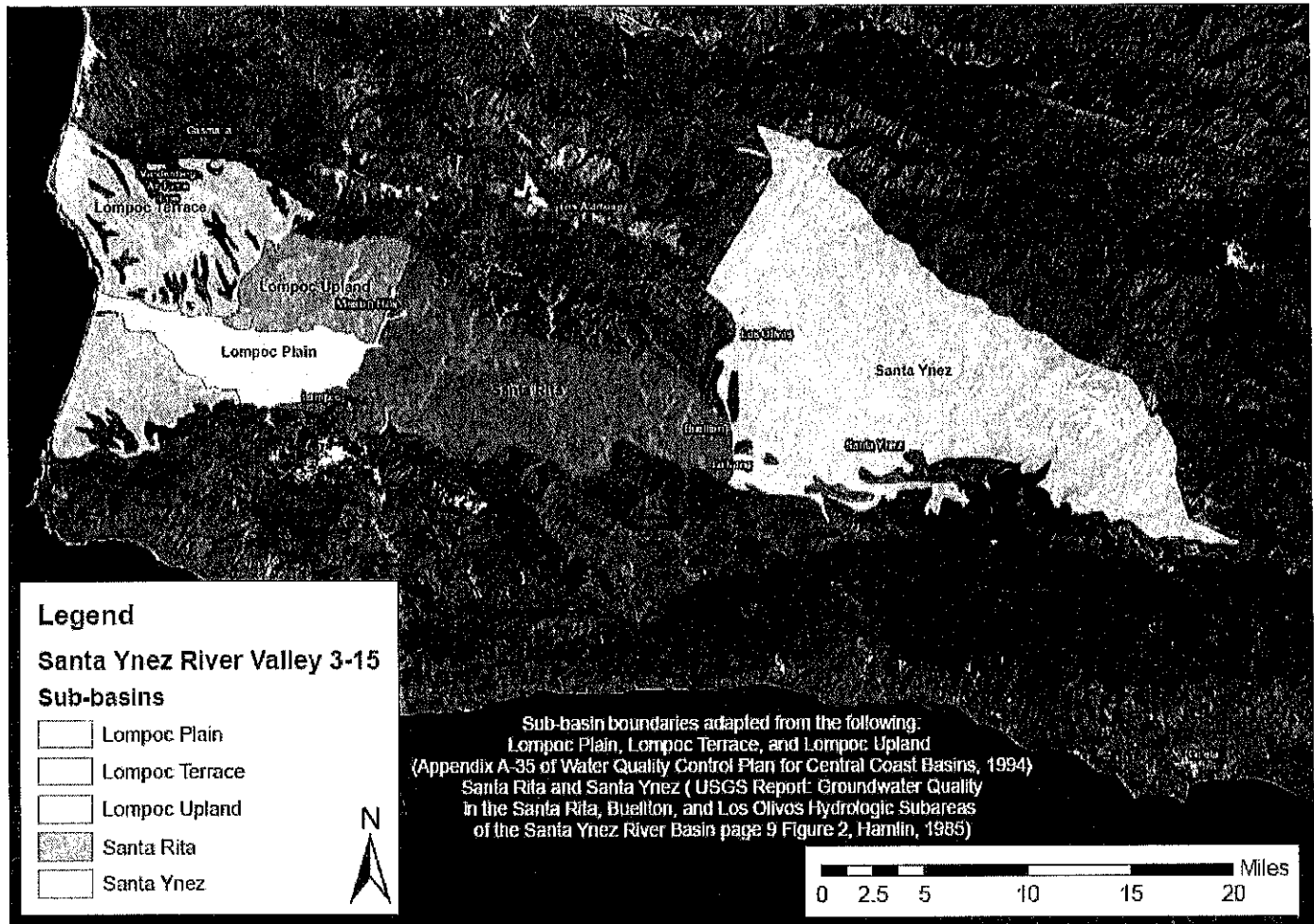
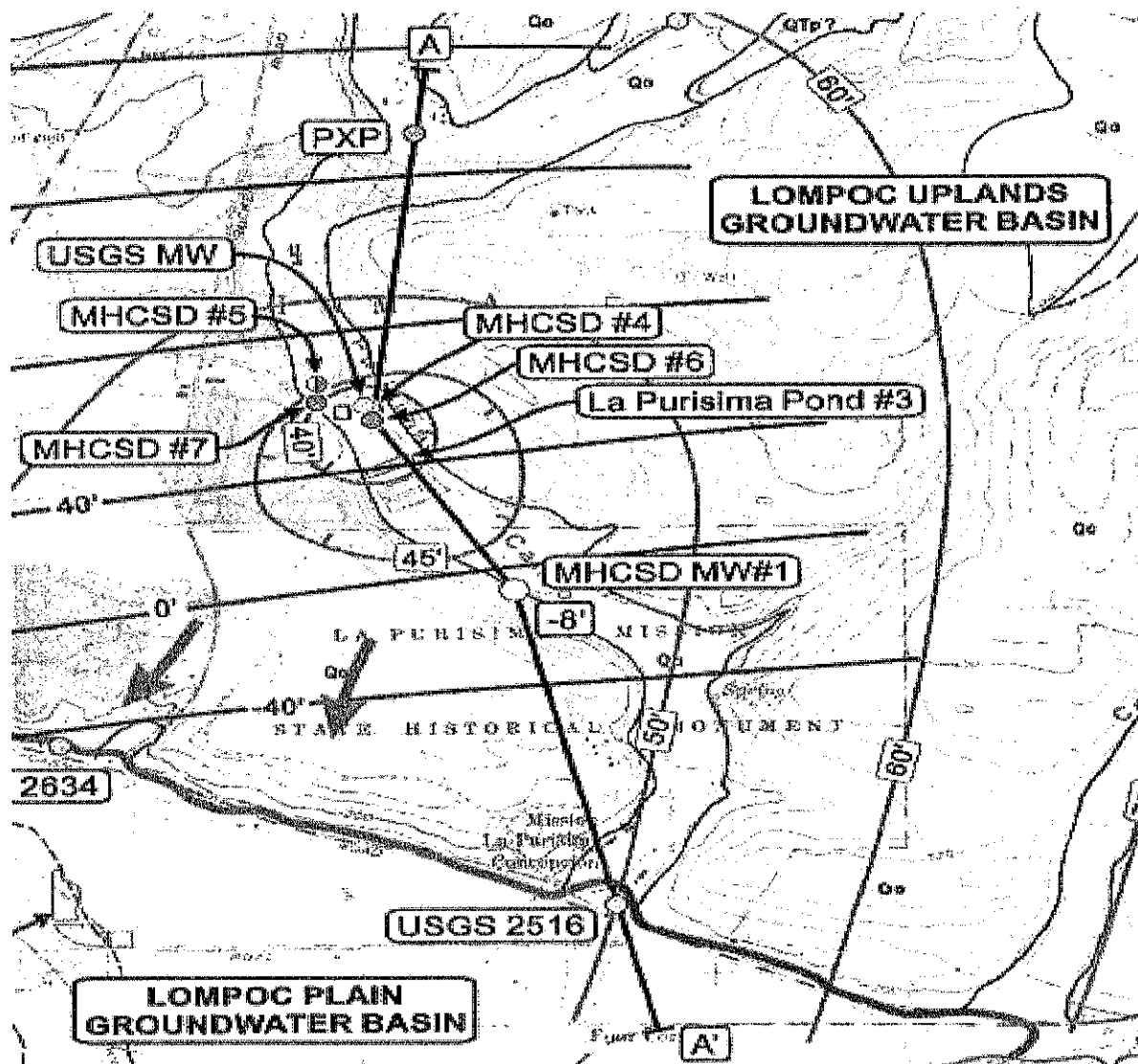
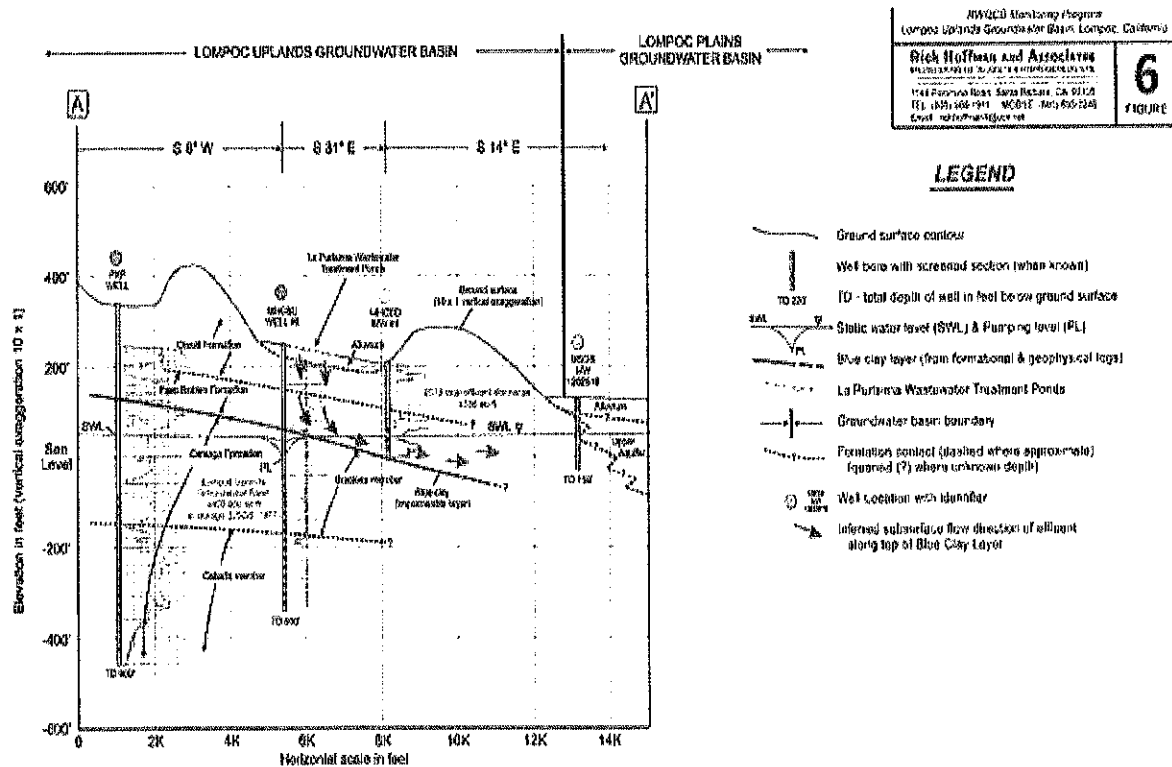


Figure 6 - Cross Section Location, A-A', Location of Mission Hills Community Service District (MHCS D) Water Supply Wells MHCS D #5, #6, and #7, and Location of Groundwater Monitoring Well (MW #1).



Red Arrows show the inferred subsurface flow direction.

Figure 7 - Cross Section Lompoc Plain sub-basin (upper basin) and the Lompoc Upland sub-basin (lower basin)



HEK
WDR Program
Charge Code = A32000
ECM Subject Name = Mission Hills CSD Order No. R3-2019-0042
ECM/CIWQS Place ID = 240951
GeoTracker No. = WDR100033210
R:\RB3\Shared\WDR\WDR Facilities\Santa Barbara Co\Mission Hills CSD WWTP\Draft MHCSO Order R3-2019-0042 2-8-2019.docx

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL COAST REGION
895 Aerovista Place, Suite 101
San Luis Obispo, California 93401**

DRAFT MONITORING AND REPORTING PROGRAM NO. R3-2019-0042
Waste Discharger Identification No. 3 420114004

for
**MISSION HILLS COMMUNITY SERVICES DISTRICT
WASTEWATER TREATMENT SYSTEM
SANTA BARBARA COUNTY**

May 9-10, 2019

1. **WATER SUPPLY** - Representative samples of the Mission Hills Community Service District (MHCS D, or Discharger) raw water supply (sampled before treatment) must be collected and analyzed as follows:

Table 1 - Water Supply Monitoring

Parameter	Units	Type of Sample	Sampling Frequency
Flow Volume	Gallons per day	Metered	Monthly
Constituent			
Chloride	mg/L	Grab	Quarterly (Jan., Apr., July, Oct.)
Nitrate (as N)	mg/L	Grab	" "
Sodium	mg/L	Grab	" "
Total Dissolved Solids	mg/L	Grab	" "
Boron	mg/L	Grab	Annually (April)
Sulfate	mg/L	Grab	" "

mg/L – milligrams per liter

2. **POND FREEBOARD** - MHCS D must document freeboard in all treatment (La Purisima Canyon site) and percolation ponds (La Purisima Canyon site and Rucker site^A).

Table 2 - Pond Freeboard Monitoring

Parameter	Units	Type of Sample	Sampling Frequency
Pond Freeboard	Feet	Measured	Weekly

A - When Rucker Ponds are in use.

3. **INFLUENT** - Representative samples of the MHCS D influent into the wastewater treatment plant must be collected and analyzed as follows:

Table 3 - Influent Monitoring

Parameter	Units	Type of Sample	Sampling Frequency
Flow Volume	Gallons per day	Metered	Daily
Maximum Daily Flow	Gallons per day	Metered	Monthly
Mean Daily Flow	Gallons per day	Calculated	Monthly
Constituent			
Ammonia (as N)	mg/L	Grab	Quarterly (Jan., Apr., July, Oct.)
Biochemical Oxygen Demand, 5-Day	mg/L	Grab	" "
Chloride	mg/L	Grab	" "
Sodium	mg/L	Grab	" "
Total Dissolved Solids	mg/L	Grab	" "
Total Kjeldahl Nitrogen (as N)	mg/L	Grab	" "
Total Nitrogen	mg/L	Calculated	" "
Total Suspended Solids	mg/L	Grab	" "

4. **EFFLUENT** - Representative composite samples (i.e. combined water from La Purisima Ponds 3-7 and combined water from Rucker Ponds 8-10) of wastewater discharged to the percolation ponds must be collected and analyzed for the following constituents:

Table 4 - Effluent Monitoring

Parameter	Units	Type of Sample	Sampling Frequency
Flow Volume ^B	Gallons per day	Estimated ^C	Daily
Maximum Daily Flow	Gallons per day	Estimated ^C	Monthly
Mean Daily Flow	Gallons per day	Estimated ^C	Monthly
Constituent			
Settleable Solids	ml/L	Grab	Weekly
Ammonia (as N)	mg/L	Grab	Quarterly (Jan., Apr., July, Oct.)
Biochemical Oxygen Demand, 5-Day	mg/L	Grab	" "
Chloride	mg/L	Grab	" "
Nitrate (as N)	mg/L	Grab	" "
Nitrite (as N)	mg/L	Grab	" "
Sodium	mg/L	Grab	" "
Total Dissolved Solids	mg/L	Grab	" "
Total Kjeldahl Nitrogen (as N)	mg/L	Grab	" "
Total Nitrogen	mg/L	Calculated	" "
Total Suspended Solids	mg/L	Grab	" "
Boron	mg/L	Grab	Annually (April)
Sulfate	mg/L	Grab	" "

B – Document quantity of flow to Rucker Ponds when in use.

C – Based on influent flow. Water currently flows subsurface from Pond 2 to Pond 3.

- 5. GROUNDWATER MONITORING** - Representative samples of groundwater from well MW#1 must be collected and analyzed for the constituents listed below. The Discharger must measure depth to groundwater (to 0.1 feet accuracy) in each monitoring well before it is purged and sampled. Before sampling, purge three well volumes from each well or until measurements of temperature, pH, specific conductance, turbidity, and dissolved oxygen have stabilized. The Discharger must collect groundwater samples from each well after the groundwater level in the well has recovered sufficiently to ensure the collection of representative groundwater samples.

Table 5 - Groundwater Monitoring

Parameter	Units	Type of Sample	Sampling Frequency
Depth to groundwater	Feet	measure	Quarterly (Jan., Apr., July, Oct.)
Constituent			
Nitrite (as N)	mg/L	Grab	" "
Nitrate (as N)	mg/L	Grab	" "
Total Kjeldahl Nitrogen (as N)	mg/L	Grab	" "
Total Nitrogen	mg/L	Calculated	" "
Total Dissolved Solids	mg/L	Grab	" "
Sodium	mg/L	Grab	" "
Chloride	mg/L	Grab	" "
Constituent			
Boron	mg/L	Grab	" "
Sulfate	mg/L	Grab	" "

Additional wells may be added to the groundwater monitoring program as deemed appropriate by the Executive Officer.

- 6. BIOSOLIDS MONITORING** - Biosolids/Sludge monitoring must be consistent with a Central Coast Water Board Executive Officer approved sampling plan and at a minimum must analyze for the following constituents:

Table 6 - Biosolids Monitoring

Parameter ^[C]	Units	Type of Sample	Minimum Frequency ^[D] of Analysis
Quantity/Volume	Tons or Cubic Yards	Measured during removal	Each load
Constituent			
Moisture Content	Percent	Grab	Consistent with approved sampling plan
pH	pH Units	" "	" "
Ammonia (N)	mg/kg	" "	" "
Nitrite (N)	" "	" "	" "
Nitrate (N)	" "	" "	" "
Total Kjeldahl Nitrogen	" "	" "	" "
Total Nitrogen	" "	" "	" "
Total Phosphorus	" "	" "	" "
Grease and Oil	" "	" "	" "

Arsenic	" "	" "	" "
Boron	" "	" "	" "
Cadmium	" "	" "	" "
Copper	" "	" "	" "
Chromium	" "	" "	" "
Lead	" "	" "	" "
Mercury	" "	" "	" "
Molybdenum	" "	" "	" "
Nickel	" "	" "	" "
Selenium	" "	" "	" "
Zinc	" "	" "	" "

[C] Characterization required by disposal facility that complies with the conditions of 40 Code of Federal Regulations section 503 may be submitted in place of this list.

[D] If no need for sludge/biosolids removal occurs during a given year, the Discharger will have no obligation for biosolids monitoring. In this case, reporting must explain the absence of this monitoring.

7. REPORTING

I. SELF-MONITORING REPORTS (SMRS)

- A. **Rucker Ponds Operation and Maintenance Program** - Within **36 months** from the date of adoption of Order No. R3-2019-0042 and prior to discharging to Rucker Ponds, MHCSD must submit a proposed operation and maintenance program for the Rucker Ponds for review and approval by the Executive Officer.
- B. **Quarterly Reports** - Submit quarterly reports to the Central Coast Water Board on **the 20th day of the month following the end of the quarter** (e.g. data collected in January, February, and March is due April 20th). The reports must bear the certification and signature of the Discharger's authorized representative. At a minimum, the quarterly reports must include:
 1. Results of all required monitoring obtained during the previous three months (e.g. monitoring reports due July 30th must include sampling events occurring from April through June).
 2. All data collected or calculated over the previous reporting period and a narrative summary of the data.
 3. The results of any pollutant or parameter monitored more frequently than is required by this monitoring program (i.e., quarterly groundwater elevation, etc.).
 4. A comparison of monitoring data to the discharge specifications, applicable effluent limits, disclosure of any violations of Order No. R3-2019-0042, and an explanation of any violation of those requirements. Data must be presented in tabular format.
 5. Monitoring data must be arranged in tabular format so that the date, constituents, and concentrations are readily discernible. The data must be summarized in such a manner to clearly illustrate whether the discharge complies with effluent limitations.
 6. Dates, types (e.g. potable water, wastewater), and volumes of discharge to Rucker ponds.
 7. A summary of noncompliance, reasons for noncompliance, and corrective action.
 8. A summary of disposal area monitoring observations and any other significant events relating to compliance with Order No. R3-2019-0042.
 9. Copies of laboratory analytical report(s), quality assurance/quality control sheets, and chain of custody form(s).

10. The certification and signature of the Discharger's authorized representative.

C. **Annual Report** - Submit annual reports to the Central Coast Water Board by **January 30th following the monitoring year**, in compliance with Standard Provisions 2013¹, (and any updates to the Standard Provisions) Section C. General Reporting Requirements, Item 16. In addition, you must include the following:

1. System Performance – Evaluate and discuss the wastewater treatment system performance. Consider:
 - System design parameters (e.g. flow rates, retention time, expected load reductions, expected concentrations, etc.)
 - Operational measures (e.g. increased/decreased aeration, changes in retention time, etc.)
 - Changes in system water quality (e.g. dissolved oxygen, temperature, etc.)
 - Increase/decrease of load in effluent water quality (e.g. BOD, TSS, TDS, Cl, Na, Total Nitrogen, etc.)

II. SPILL REPORTS

A. Reporting to the Central Coast Water Board

1. In accordance with Central Coast Water Board Sewage Spill Reporting Policy², sewage spills greater than 1,000 gallons and/or all sewage spills that enter a water body of the State, or occur where public contact is likely, regardless of the size, must be reported to the Central Coast Water Board by telephone as soon as notification is possible and can be provided without substantially impeding cleanup or other emergency measures, and no later than 24 hours from the time of that the Discharger has knowledge of the overflow.
2. Unless fully contained, overflows to storm drains tributary to Waters of the United States must be reported as discharges to surface waters.
3. A written report of all relevant information must be submitted to the Central Coast Water Board within five days of the spill and must include no less information than is required on the current spill reporting form (Attachment E), or equivalent, as approved by the Central Coast Water Board Executive Officer. Attachments to the report should be used as appropriate, and incidents requiring more time than the five-day period must be followed by periodic written status reports until issue closure. Photographs taken during the overflow incident and cleanup must be submitted to the Central Coast Water Board in hard copy and electronic format. Copy of such reports must also be provided to the Santa Barbara County Health Department.
4. The Discharger must sample all spills to surface waters to determine their effects on surface waters and submit the data to the Executive Officer within 30 days.

¹ \\ca.epa.local\RB\RB3\Shared\WDR\Standard Provisions\WDR Standard Provisions Dec 2013.pdf

² State Water Resources Control Board, Water Quality Enforcement Policy, February 19, 2002, California Environmental Protection Agency

Samples must, at minimum, be analyzed for total and fecal coliform bacteria and enterococcus bacteria for spills to marine water, and fecal coliform bacteria for spills to fresh water. Sampling must be conducted in the affected receiving water body upstream, at, and downstream of the overflow's point of entry, and as necessary to characterize the overflow's impact and to ensure adequate clean-up.

5. Spills under 1,000 gallons that do not enter a water body must be reported to the Central Coast Water Board in writing and electronically (Excel spreadsheet preferred) within 30 days. Such reports must include, at a minimum, a tabular summary of spill dates, locations, volumes, whether the spill discharged to surface waters (including conveyances thereto) or land, whether cleanup and/or disinfection was performed, the spill's cause, the number of spills at the location in the last three years, and weather conditions.

Contact Information

Central Coast Regional Water Quality Control Board
895 Aerovista Place, Suite 101
San Luis Obispo, CA 93401-5411
Email: centralcoast@waterboards.ca.gov
Phone: (805) 549-3147
FAX: (805) 549-0397

6. As part of the annual report, the discharger must submit to the Central Coast Water Board annual summary reports of all overflows between January 1 and December 31 of the previous year. The report is **due January 30th of each year** and it must **summarize** the following information for each overflow:
 - a. Information requested in the current Sewage Spill Report Form;
 - b. How the overflow volume was estimated and/or calculated;
 - c. Photograph(s) of the spill, if taken;
 - d. Where the spill entered any storm drain inlet or surface waters;
 - e. Steps taken or planned to reduce, eliminate, and prevent recurrence of the overflow, and a schedule of major milestones for those steps;
 - f. Steps taken or planned to mitigate the impact(s) of the overflow, and a schedule of major milestones for those steps; and
 - g. Any additional correspondence and follow up reports, as necessary, to supplement the Sewage Spill Report Form and to provide detailed information on cause, response, adverse effects, corrective actions, preventative measures, or other information.
7. The annual summary report must include detailed evaluations of repetitive or chronically occurring circumstances, such as problematic collection system areas or common overflow causes, and the corrective actions taken to address such systematic problems.
8. A statement certifying that there were no wastewater overflows for the last twelve months may be submitted (when appropriate) in lieu of the annual summary report.

B. Reported to the Governor's Office of Emergency Services:

1. In accordance with the Governor's Office of Emergency Services (OES) 2002 Fact Sheet regarding the reporting of sewage releases (as revised or updated), the California Water Code, commencing with section 13271, requires that a discharge of sewage into or onto state waters must be reported to OES.

To report sewage releases of 1,000 gallons or more (currently the federal reportable quantity) to OES, **verbally notify the OES Warning Center at: (800) 852-7550, or (916) 845-8911.**

The following fax number should be used *for follow-up information only*: (916) 262-1677. The reportable quantity is subject to revision by the State of California. OES reporting requirements for sewage releases and hazardous materials can be located on the OES Website @ www.oes.ca.gov in the California Hazardous Material Spill/Release Notification Guidance. The OES Hazardous Materials Unit staff is available for questions at (916) 845-8741.

2. OES Reporting Exceptions: Notification to OES of an unauthorized discharge of sewage or hazardous substances is not required if: 1) the discharge to state waters is a result of a cleanup or emergency response by a public agency; 2) the discharge occurs on land only and does not affect state waters; or 3) the discharge is in compliance with applicable waste discharge requirements. These exceptions apply only to the Discharger's responsibility to report to OES, and do not alter the Central Coast Water Board's reporting policies or waste discharge requirements.

III. OTHER REPORTS – The Discharger must report the results of any special studies, monitoring, and reporting required by the Order. The Discharger must submit such reports consistent with dates found in this Monitoring and Reporting Program.

IV. ELECTRONIC SUBMITTAL

- A. The Discharger must submit all requested information electronically in a searchable PDF format and email to centralcoast@waterboards.ca.gov using the transmittal sheet found at the link below as the cover page.

https://www.waterboards.ca.gov/centralcoast/water_issues/programs/wastewater_permitting/docs/transmittal_sheet.pdf

- B. Additionally, electronically submit all reports/documents and laboratory data (using the transmittal sheet as the cover page) to the State Water Resources Control Board's GeoTracker³ database for the Mission Hills Community Services District, Santa Barbara County site GeoTracker No. WDR100033210 over the internet at:

³ Information for first-time GeoTracker users is available here:

https://www.waterboards.ca.gov/ust/electronic_submittal/docs/beginnerguid2.pdf

http://www.waterboards.ca.gov/ust/electronic_submittal/index.shtml.

- C. Table 7 below summarizes all the electronic reporting requirements. Staff may request submittal of some documents on paper, particularly drawings or maps that require a large size to be readable, or in other electronic formats where evaluation of data is required.

Table 7 - GeoTracker Electronic Submittal Information (ESI) Data Requirements

Electronic Submittal	Description of Action	Action	Frequency
Reports and documents	Complete copy of all documents including monitoring reports (in searchable PDF format) and any other associated documents related to the facility.	Upload directly to GeoTracker all monitoring reports (in searchable PDF format) and any other associated documents.	On or before the due dates required by this Order and for other documents when requested by Central Coast Water Board staff.
Laboratory Data	All analytical data (including geochemical data) in electronic deliverable format (EDF). This includes all water, soil, and vapor samples collected when monitoring a discharge.	Direct your State Certified Laboratory staff to upload all laboratory data directly to GeoTracker.	On or before the due date of the required monitoring report.
Depth to groundwater	Monitoring wells must have the depth-to-water information reported. Report data only for wells defined as permanent sampling points.	Upload depth-to-water information to the GeoTracker GEO_WELL file.	On or before the due date of the required monitoring report.
Boring Logs and Well Screen intervals	Boring logs must be prepared by a registered professional and submitted in PDF format separately (not only as attachments to reports)	Upload boring logs (in searchable PDF format) to GeoTracker whenever a new boring is drilled.	Every time a new boring is drilled.
Location Data (Geo XY)	Survey and mark all permanent sampling locations (i.e., monitoring wells, drinking water wells, and permanent influent/effluent sampling locations). These	Upload the survey data to the GeoTracker Geo_XY file.	Every time a permanent monitoring point is established.

Electronic Submittal	Description of Action	Action	Frequency
	data points are required prior to laboratory data uploads.		
Elevation Data (Geo Z)	Survey and mark the elevation at the top of groundwater well casings for all permanent groundwater wells. These points are required prior to depth-to-water data uploads.	Upload the survey data to the GeoTracker GEO_Z file.	One-time, for all groundwater monitoring wells.
Geo Map	Site layout, map of facilities, wastewater treatment system, and disposal area(s).	Upload the Site layout PDF to the GeoTracker site plan file.	Year one and every five years thereafter and when the facilities are modified.

- V. Report Transmittal** - A letter transmitting the monitoring reports must accompany each report. The letter must report violations found during the reporting period, and actions taken or planned to correct the violations and prevent future violations. The transmittal letter must contain the following penalty of perjury statement and must be signed by the Discharger or the Discharger's authorized agent:

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of the individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."

The Discharger must implement the above monitoring program as of the date of this Monitoring and Reporting Program.

Ordered by: _____
Executive Officer

Date: _____

HEK
WDR Program
Charge Code = A32000
ECM Subject Name = Mission Hills CSD MRP No. R3-2019-0042
ECM/CIWQS Place ID = 240951
GeoTracker No. = WDR100033210
R:\RB3\Shared\WDR\WDR Facilities\Santa Barbara Co\Mission Hills CSD WWTP\Draft MHCS D MRP R3-2019-0042
2-8-2019.docx

**STATE OF CALIFORNIA
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL COAST REGION
895 Aerovista Place, Suite 101
San Luis Obispo, CA 93401**

DRAFT TIME SCHEDULE ORDER NO. R3-2019-0015

**REQUIRING THE
MISSION HILLS COMMUNITY SERVICES
DISTRICT WASTEWATER TREATMENT SYSTEM,
SANTA BARBARA COUNTY,
TO COMPLY WITH REQUIREMENTS PRESCRIBED
IN WASTE DISCHARGE REQUIREMENTS ORDER NO. R3-2019-0042**

The Central Coast Regional Water Quality Control Board (Central Coast Water Board) finds that:

1. Mission Hills Community Service District (MHCS D) operates a wastewater treatment facility located at 1550 East Burton Mesa Boulevard, Lompoc, CA 93436, Santa Barbara County.
2. On May 9-10, 2019, the Central Coast Water Board adopted Waste Discharge Requirements Order No. R3-2019-0042. Order No. R3-2019-0042 regulates the discharge of secondary treated effluent from the wastewater treatment plant (WWTP) to percolation ponds located in the Lompoc Plain sub-basin.
3. Order No. R3-2019-0042 prescribes the following effluent limitations for chloride and total nitrogen. These limits are based on the protection of groundwater water quality objective for Lompoc Plain sub-basin, Table 3-6 of the Water Quality Control Plan, Central Coast Region (Basin Plan).

Table 1 – Lompoc Plain sub-basin Median Groundwater Quality Objectives

Constituent	Units	Concentration
Total Dissolved Solids	mg/L	1250
Chloride	mg/L	250
Sulfate	mg/L	500
Boron	mg/L	0.5
Sodium	mg/L	250
Nitrogen	mg/L	2

Table 2 – Effluent Limits

Constituent	Units	25-Month Rolling Median	30-Day Monthly Average	Sample Maximum
Chloride	mg/L	250 ^{BP}	---	300 ^E
Total Nitrogen (as N)	mg/L	---	10 (May-Sep) ^C	20 (May-Sep) ^C
		---	15 (Oct-Apr) ^C	30 (Oct-Apr) ^C

BP = Basin Plan (Central Coast Water Quality Control Plan)

C = Water Board Order No. 97-35 established these effluent limits in 1997 based on six samples collected and analyzed for total nitrogen.

E = Highest average value (295 mg/L rounded to 300 mg/L) derived from MHCS D effluent data for composite samples (ponds 3-7) from 2014-2018.

4. MHCSO currently discharges approximately 250,000 gallons per day (gpd) of treated wastewater to the Lompoc Plain groundwater sub-basin, in Santa Barbara County. The treatment and disposal system include a head works facility (e.g. screen and comminution), two lined facultative lagoons with aerators (Pond 1 with baffles and Pond 2 no baffles) and two sets of evaporation/percolation ponds (eight ponds). MHCSO's compliance history indicates it cannot achieve immediate compliance with the existing chloride and total nitrogen effluent limits prescribed in Order No. R3-2019-0042.
5. In January 2019, MHCSO staff developed a draft plan to upgrade its operations and wastewater treatment facility and an MHCSO Board approved plan will be submitted in April of 2019. The upgrades are designed to ensure compliance with permit limitations, improve consistency of effluent quality, improve existing facilities, and provide redundancy for some existing operations. Phased implementation is scheduled to begin in 2019 with estimated completion in 2025.
6. MHCSO's proposed modifications to the WWTP and WWTP operational changes include: modification of treatment Ponds 1 and 2 aeration and mixing systems; evaluation of pond flow patterns and pond retention times; evaluation of pond sludge volumes; evaluation of wastewater collection system to identify chloride sources, and public education/outreach.
7. MHCSO completed a preliminary implementation plan targeting the reduction of chloride entering the WWTP and operational changes (e.g. improved wastewater mixing, enhanced oxygen transfer, optimize retention time, etc.) to reduce total nitrogen in the discharge. MHCSO is currently evaluating implementation options and costs for each option.

8. California Water Code Section 13300 states:

Whenever a Regional Board finds that a discharge of waste is taking place or threatening to take place that violates or will violate requirements prescribed by the Regional Board, or the State Board, or that the waste collection, treatment, or disposal facilities of a discharger are approaching capacity, the board may require the discharger to submit for approval of the board, with such modifications as it may deem necessary, a detailed time schedule of specific actions the discharger shall take in order to correct or prevent a violation of requirements.

9. Chapter 3, Section II of the Basin Plan states:

Controllable water quality shall conform to the water quality objectives contained herein. When other conditions cause degradation of water quality beyond the levels or limits established as water quality objectives, controllable conditions shall not cause further degradation of water quality.

Controllable water quality conditions are those actions or circumstances resulting from man's activities that may influence the quality of the waters of the State and that may be reasonably controlled.

Water quality objectives are considered to be necessary to protect those present and probable future beneficial uses enumerated in Chapter Two of this plan and to protect existing high quality waters of the State. These objectives will be achieved primarily through the establishment of waste discharge requirements and through implementation of this water quality control plan.

In setting waste discharge requirements, the Regional Board will consider the potential impact on beneficial uses within the area of influence of the discharge, the existing quality of receiving waters, and the appropriate water quality objectives. The Central Coast Water Board will make a finding of beneficial uses to be protected and establish waste discharge requirements to protect those uses and to meet water quality objectives.

10. MHCS D's compliance history indicates it cannot achieve immediate compliance with the existing chloride and total nitrogen effluent limits prescribed in Order No. R3-2019-0042; therefore, a discharge of waste is taking place that violates or threatens to violate requirements prescribed by the Central Coast Water Board. MHCS D has requested a five-year schedule to allow MHCS D time to evaluate and implement actions to bring total nitrogen and chloride limits into compliance with the conditions of Order No R3-2019-0042. MHCS D believes that total nitrogen compliance is dependent on system optimization and standard sampling methods. MHCS D believes that chloride compliance is dependent on system source identification and public outreach to promote improved water quality.
11. This Order requires the MHCS D to refine and implement proposed actions to achieve compliance with Order No. R3-2019-0042 for both chloride and total nitrogen. MHCS D will propose actions that, as applicable:
 - a. Reduce chloride and total nitrogen concentrations in the MHCS D's effluent through WWTP modification and source control (e.g., in the case where the MHCS D identifies sources and requires the responsible parties to treat or eliminate waste discharges to the MHCS D WWTP), with the goal of achieving compliance with the chloride and total nitrogen effluent limits in Order No. R3-2019-0042, and;
 - b. Develop and implement corrective actions for any man-made conditions or influences within the MHCS D's jurisdiction or control that contribute chloride and total nitrogen to the MHCS D WWTP.
12. This Order also prescribes chloride and total nitrogen interim effluent limits that MHCS D must meet until full compliance with effluent limitations is achieved.
13. Pursuant to California Water Code Section 13167.5, the State Water Board of the Central Coast Water Board, as applicable, shall provide notice and a period of at least 30 days for public comment prior to the adoption of a time schedule order adopted pursuant to Section 13300 that sets forth a schedule of compliance and required actions relating to waste discharge requirements prescribed pursuant to Sections 13263 and 13377.
14. The Central Coast Water Board has notified MHCS D and interested agencies and persons of its intent to issue the Order concerning violations or threatened violations of waste discharge requirements.
15. This enforcement action is taken for the protection of the environment and as such is exempt from the provisions of the California Environmental Quality Act (Public Resources Code Section 21000, et seq.) in accordance with Section 15321, Chapter 3, Title 14, of the California Code of Regulations.

Pursuant to California Water Code Section 13320, any aggrieved party may seek review of this Order by filing a petition with the State Water Resources Control Board. A petition must be

received by the State Water Resources Control Board, Office of Chief Counsel, 1001 I Street, 22nd Floor, Sacramento, California, 95812, within 30 days of adoption of this Order.

IT IS HEREBY ORDERED, pursuant to California Water Code Sections 13267, 13300 and 13383, that the Mission Hills Community Services District shall:

1. Comply with the following interim chloride and total nitrogen effluent limits commencing upon the effective date of Order No. R3-2019-0042:

Table 3 - Interim Chloride and Total Nitrogen Limits

Constituent	Units	25-Month Rolling Median	30-Day Monthly Average	Sample Maximum
Chloride	mg/L	300	---	330
Total Nitrogen (as N)	mg/L	---	15 (May-Sep)	20 (May-Sep)
		---	20 (Oct-Apr)	30 (Oct-Apr)

2. Complete the following tasks on or before the specified dates:

Table 4 - Task Summary

	Task	Due Date
1	Submit MHCS D Board approved plan to upgrade operations and wastewater treatment facility	April 2019
2	Evaluate existing pond aeration/mixing system	August 2019
3	Propose & design improved aeration/mixing system	October 2019
4	Develop aeration/mixing system bid documents & advertise	January 2020
5	Purchase & install aeration/mixing system with MHCS D Board approval	April 2020
6	Evaluate pond flow patterns and hydraulic retention times	April 2020
7	Install upgraded pond aeration/mixing system	May 2020
8	Evaluate pond sludge distribution in Ponds 2 and 3	December 2020
9	Collect samples to identify chloride sources	October 2021
10	Evaluate options for chloride reduction program	October 2021
11	De-sludge Pond 3 if necessary	December 2021
12	Develop and implement valve repair program	October 2022
13	Develop chloride reduction program	November 2022
14	Evaluate dissolved oxygen levels in ponds	Ongoing
15	Continue public outreach for chloride reduction	Ongoing
16	Complete all actions	February 2025

3. Semi-annual Status Reports – Semi-annual status reports must be submitted on July 31 and December 31 of each year. MHCS D must submit semi-annual status reports beginning July 31, 2019 and every six months thereafter until Time Schedule Order No. R3-2019-0015 is confirmed to be complete by the Water Board Executive Officer. At a minimum, the reports shall include:
 - i. A brief summary of progress during the previous six months (significant activities),
 - ii. Significant findings and associated actions,

- iii. Activities scheduled for the next six months, and
 - iv. Raw data from samplings obtained within the previous six months.
4. All reports required by this Order are required pursuant to Sections 13267 and 13383 of the California Water Code. The reports are necessary to determine compliance with this order and to ensure that the Discharger attains compliance with its NPDES permit. The Central Coast Water Board may impose civil liability in an amount up to \$1,000 per day of violation for failure to comply with an order made pursuant to Section 13267 (see California Water Code Section 13268) and up to \$10,000 per day for failure to comply with an order made pursuant to Section 13383 (see California Water Code Section 13385). Under California Water Code Section 13350, the Central Coast Water Board may also impose civil liability in an amount up to \$5,000 per day of violation for failure to comply with the terms of this Order. The enforcement remedies in this paragraph are not exclusive of other available remedies.
5. All provisions of Order No. R3-2019-0042 are in full force and effect.
6. This Order shall take effect on the date signed by the Executive Officer. The Central Coast Water Board may modify or rescind this Order at any time during the duration of this Order.

Date

ORDERED BY: _____

John M. Robertson
Executive Officer

HEK

WDR Program

Charge Code = A32000

ECM Subject Name = Mission Hills CSD Time Schedule Order No. R3-2019-0015

ECM/CIWQS Place ID = 240951

GeoTracker No. = WDR100033210

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