



*Dedicated to
Satisfying our Community's
Water Needs*

**AGENDA
MESA WATER DISTRICT
BOARD OF DIRECTORS
Tuesday, August 23, 2022
1965 Placentia Avenue, Costa Mesa, CA 92627
3:30 p.m. Adjourned Regular Board Meeting**

BOARD OF DIRECTORS COMMITTEE MEETING

**Teleconference Site:
2871 Alanzo Lane
Costa Mesa, CA 92626**

**Members of the public may attend and participate in the meeting at both locations.
Notice will be posted on the door at the teleconference site.**

CALL TO ORDER

PLEDGE OF ALLEGIANCE

PUBLIC COMMENTS

Items Not on the Agenda: Members of the public are invited to address the Board regarding items which are not appearing on the posted agenda. Each speaker shall be limited to three minutes. The Board will set aside 30 minutes for public comments for items not appearing on the posted agenda.

Items on the Agenda: Members of the public shall be permitted to comment on agenda items before action is taken, or after the Board has discussed the item. Each speaker shall be limited to three minutes. The Board will set aside 60 minutes for public comments for items appearing on the posted agenda.

ITEMS TO BE ADDED, REMOVED, OR REORDERED ON THE AGENDA

At the discretion of the Board, all items appearing on this agenda, whether or not expressly listed as an Action Item, may be deliberated and may be subject to action by the Board.

CONSENT CALENDAR ITEMS:

Approve all matters under the Consent Calendar by one motion unless a Board member, staff, or a member of the public requests a separate action.

1. Receive and file the Developer Project Status Report.
2. Receive and file the Mesa Water and Other Agency Projects Status Report.
3. Receive and file the Water Quality Call Report.
4. Receive and file the Accounts Paid Listing.
5. Receive and file the Monthly Financial Reports.
6. Receive and file the Major Staff Projects.
7. Receive and file the State Advocacy Update.
8. Receive and file the Orange County Update.
9. Receive and file the Outreach Update.
10. Receive and file the Fiscal Year 2022 Fourth Quarter Financial Update.



PRESENTATION AND DISCUSSION ITEMS:

NONE

ACTION ITEMS:

11. MESA WATER EDUCATION CENTER CONSULTING SERVICES:

Recommendation: Approve a one-year contract time extension and \$265,150 with Mad Systems to provide additional exhibits and design elements at the Mesa Water Education Center.

REPORTS:

12. REPORT OF THE GENERAL MANAGER

13. DIRECTORS' REPORTS AND COMMENTS

INFORMATION ITEMS:

14. RECYCLED WATER REPORTING

15. FISCAL YEAR 2022 ANNUAL SOLE SOURCE REPORT

16. OTHER (NO ENCLOSURE)

In compliance with California law and the Americans with Disabilities Act, if you need disability-related modifications or accommodations, including auxiliary aids or services in order to participate in the meeting, or if you need the agenda provided in an alternative format, please call the District Secretary at (949) 631-1205. Notification 48 hours prior to the meeting will enable Mesa Water District (Mesa Water®) to make reasonable arrangements to accommodate your requests.

Members of the public desiring to make verbal comments using a translator to present their comments into English shall be provided reasonable time accommodations that are consistent with California law.

Agenda materials that are public records, which have been distributed to a majority of the Mesa Water Board of Directors (Board), will be available for public inspection at the District Boardroom, 1965 Placentia Avenue, Costa Mesa, CA and on Mesa Water's website at www.MesaWater.org. If materials are distributed to the Board less than 72 hours prior or during the meeting, the materials will be available at the time of the meeting.

**ADJOURN TO A REGULAR BOARD MEETING SCHEDULED FOR WEDNESDAY,
SEPTEMBER 14, 2022 AT 4:30 P.M.**

DEVELOPER PROJECT STATUS REPORT

PROJECT STATUS - DEVELOPER PROJECTS			
FILE NO.	PROJECT ADDRESS	PROJECT DESCRIPTION	PROJECT NOTES/STATUS
C0013-23-01	Shalimar Drive Street Improvements	City Median	Application for New Services received on 7/19/22 and plan check fees are waived. 1st plan check submitted on 7/19/22 and returned on 7/19/22. (8/12/22)
C0014-21-01	1170 Baker Street, Units C and D	Commercial Building	Plans received on 7/15/20 and plan check fees paid 7/20/20. Redlines returned 7/23/20. 2nd plan check submitted 8/13/20 and redlines returned 8/14/20. 3rd plan check submitted 8/31/20 and returned 9/6/20. Permit issued 10/23/20. Inspector dispatched to check job progress 11/16/21 and 6/17/22. Termination of service letter due to noncompliance of plan check sent 6/20/22. South Coast Plaza coordinating with Engineering and Contractor to confirm Precon as of 8/10/22. (8/12/22)
C0070-23-02	3333 Bristol Street, Suite 1836	Commercial Building	Application for New Service submitted on 8/1/22 and plan check fee submitted on 7/29/22. 1st plan check submitted 8/1/22 and returned 8/7/22. (8/12/22)
C0071-20-01	2277 Harbor Boulevard	Apartment Complex	Plans received and plan check fees paid 3/17/20 and redlines returned 3/26/20. 2nd plan check received 3/31/20. 2nd plan check submitted 4/5/20 and redlines returned 4/8/20. Quitclaim exemption on 10/9/20. Permit issued 12/22/20. Precon held 4/22/21. Hydrant placement inspected 5/13/21. Hot Tap inspected 6/23/21. 2nd Precon with new Contractor held 7/14/21. Shutdown for Abandonment 8/10/21. Pressure test and thrust block placement 10/11/21. Chlorination swab and flowthru tests performed 10/13/21. Bac-T tests completed 10/28/21. Inspector dispatched to check job progress 6/17/22. Site is at a stand-still. (8/12/22)

DEVELOPER PROJECT STATUS REPORT

PROJECT STATUS - DEVELOPER PROJECTS			
FILE NO.	PROJECT ADDRESS	PROJECT DESCRIPTION	PROJECT NOTES/STATUS
C0092-19-01	2089 Harbor Boulevard (Harbor and Hamilton)	28 New Townhomes	<p>Plans received and plan check fees paid 4/23/19. 1st plan check submitted 4/23/19 and redlines to be picked up 5/6/19. 2nd plan check submitted 6/11/19 and redlines picked up 6/18/19. 3rd plan check submitted 11/25/19 and redlines returned to customer 11/27/19. 4th plan check submitted 2/4/20 and redlines emailed to customer 2/12/20. Permit issued 6/6/20. Precon meeting held 6/25/20. Hot taps done 10/9/20, 10/12/20, 10/13/20. 29 Meters installed 10/15/20. Shutdown to tie in the fireline 10/15/20. Two backflows tested 10/23/20. Abandonment completed 10/28/20. Meter install 11/2/20. Service abandonments performed 1/7/21. Flow tests performed 03/18/21. Flowthru tests completed 8/18/21, 10 homes 10/11/21, and tested again 10/13/21. Flowthru tests completed 2/3/22. Chlorination flushing, pressure tests, Bac-T tests done 2/8/22. Final flowthru tests completed 3/24/22. Revised 1 plan check received 5/20/22 and returned 5/22/22. (8/12/22)</p>
C0102-20-02	3550 Cadillac Avenue	Commercial	<p>Plans received and plan check fees paid on 11/25/19. 1st plan check submitted 11/25/19 and redlines emailed on 12/4/19. Issued plan check application termination to Owner due to non-responsiveness to complete plan check process. 2nd plan check submitted on 7/2/20 and returned on 7/5/20. 3rd plan check submitted on 7/25/21 and returned on 7/31/21. 4th plan check submitted on 8/24/21 and returned on 8/29/21. 5th plan check submitted on 10/11/21 and returned on 10/12/21. 6th plan check submitted on 10/22/21 and returned on 10/23/21. 7th plan check received 2/15/22 and returned on 2/17/22. (8/12/22)</p>

DEVELOPER PROJECT STATUS REPORT

PROJECT STATUS - DEVELOPER PROJECTS			
FILE NO.	PROJECT ADDRESS	PROJECT DESCRIPTION	PROJECT NOTES/STATUS
C0105-20-01	3333 Avenue of the Arts	Commercial	Plans received and plan check fees paid on 7/24/19. 1st plan check submitted 7/26/19 and redlines to be picked up on 7/26/19. 2nd plan check submitted on 8/30/19 and resubmitted on 9/11/19. 3rd plan check resubmitted on 10/8/19. Permit approved and final fees paid on 10/24/19. Precon held on 11/24/19. Temporary RW pipeline inspected and approved on 11/27/19 and report sent to DDW on 12/4/19. Precon meeting conducted on 3/5/21. Mainline and fireline excavations inspected on 3/12/21. Services installed on 4/1/21. Meters installed on 4/6/21. Backflow tests performed on 4/7/21. Backfill and compaction completed on 4/8/21. Meter installed and locked off on 5/17/21. Backflow test #1 of #2 completed 1/12/22. Shutdown to tie-in to backflow on 1/19/22. Backflow tests passed on 4/7/22. Shutdown to tie-into backflow on 1/19/22. Hydrant work precon held on 4/28/22. Excavating done on 5/2/22 and 5/3/22. Supervisor inspected abandoned fire hydrant on 6/13/22. Shutdown performed to abandon hydrant on 6/23/22. (8/12/22)
C0137-20-01	3001 Murray Lane	Single Family Home	Plans received and plan check fees paid on 2/28/20. 1st plan check submitted on 2/28/20 and redlines returned on 3/9/20. 2nd plan check submitted on 9/30/20 and returned on 10/11/20. 3rd plan check submitted on 4/30/21 and returned on 5/2/21. 3rd plan check submitted on 5/2/21 and returned on 5/2/21. Permit issued on 10/5/21. Inspector dispatched to check job progress on 6/17/22. Owner is modifying and resubmitting plans to the City and Mesa Water for updated permit approvals. (8/12/22)
C0147-22-01	2701 Fairview Road	College - Chemistry Building	Application for New Service received on 5/27/22 and no plan check to be paid. 1st plan check submitted on 1/6/22 and returned on 6/14/22. (8/12/22)
C0148-20-01	2094 Balmoral Place	Single Family Home	Application for New Service received on 5/15/20. 1st plan check submitted on 6/15/20 and redlines returned on 6/21/20. Plan check fees paid on 7/3/20. Awaiting response from customer on status. Site visit to check construction progress on 3/16/21 and again on 11/16/21 to check status of project. Termination of service letter due to noncompliance of plan check sent 8/16/22. (8/16/22)

DEVELOPER PROJECT STATUS REPORT

PROJECT STATUS - DEVELOPER PROJECTS			
FILE NO.	PROJECT ADDRESS	PROJECT DESCRIPTION	PROJECT NOTES/STATUS
C0150-20-02	165 Merrill Place	Single Family Home	Plans received on 7/3/20 and plan check fees paid on 6/25/20. 1st plan check submitted on 6/25/20 and redlines returned on 7/5/20. Rescinded permit on 9/16/20. 2nd plan check submitted 9/28/20 and returned on 9/29/20. Issued permit on 10/27/20. Precon held on 3/17/21. Inspector dispatched to check job progress on 11/15/21 and 6/17/22. Precon with new Contractor held on 8/9/22. (8/12/22)
C0158-21-01	396 E. 21st Street	Mobile Home Park	Plan check fees paid on 8/13/20 and Application for New Service submitted on 8/7/20. 1st plan check submitted on 7/30/20 and returned on 8/15/20. 2nd plan check submitted on 9/2/20 was rejected. Revised 2nd plan check submitted on 9/10/20 and returned on 9/12/20. Issued permit on 10/27/20. Precon held on 5/27/21. Extending permit for 6 months. Inspector dispatched to check job progress on 11/15/21 and 6/17/22. (8/12/22)
C0165-21-01	2110 Monrovia Avenue	Single Family Home	Plan check fees paid and Application for New Service submitted on 9/3/20. 1st plan check submitted on 9/2/20 and returned on 9/6/20. Issued permit on 9/17/20. Inspector visited site on 11/15/21 to check status of project. Waiting for Contractor to call for next inspection and extending permit for 6 months. Inspector dispatched to check job progress on 6/17/22. (8/12/22)
C0169-21-01	785 Center Street	Single Family Home	Plan check fees paid and Application for New Service submitted on 9/14/20. 1st plan check submitted on 9/14/20 and returned on 9/18/20. 2nd plan check submitted on 9/24/20 and returned on 9/25/20. Issued permit on 10/5/20. Extending permit for 6 months. Inspector dispatched to check job progress on 11/15/21 and 6/17/22. Precon held on 8/10/22. (8/12/22)

DEVELOPER PROJECT STATUS REPORT

PROJECT STATUS - DEVELOPER PROJECTS			
FILE NO.	PROJECT ADDRESS	PROJECT DESCRIPTION	PROJECT NOTES/STATUS
C0176-21-01	752-756 W. 19th Street	Mix Use	Application for New Service and plan check fees submitted on 12/21/20. 1st plan check submitted on 12/21/20 and returned on 12/23/20. 2nd plan check submitted 1/25/21 and returned on 2/2/21. 3rd plan check submitted on 2/15 and returned on 2/15/21. 4th plan check submitted on 11/16/21 and returned on 11/20/21. 5th plan check submitted on 11/21/21 and returned on 11/21/21. 6th plan check resubmitted on 11/23/21 and returned on 11/23/21. 7th plan check submitted on 11/29/21 and returned on 11/30/21. 8th plan check submitted on 12/3/21 and returned on 12/4/21. Permit issued on 1/10/22. Precon held on 2/22/22. Hot Tap and services installed on 4/18/22, 5/25/22, 6/15/22, 6/28/22, 7/7/22, 7/14/22, and on 7/15/22. Shutdown for abandonment performed on 7/19/22. Meters installed on 7/21/22. Shutdown to tie-in Tee on 7/26/22. Backflow placements approved on 7/27/22. Backflow tests completed on 7/28/22. Backflow placement and thrustblock placement on 8/12/22. Chlorination and pressure test completed on 8/16/22. (8/16/22)
C0177-21-01	2141 Orange Avenue	Single Family Home	Application for New Service and plan check fee submitted on 12/21/20 and redlines returned on 12/23/20. 2nd plan check submitted on 12/24/20 and returned on 12/24/20. Issued permit on 1/5/21. Inspector dispatched to check job progress on 6/17/22 and 11/15/21. Precon held on 8/11/22. (8/12/22)
C0183-21-01	148 E. 22nd Street	St. Mary Armenian Church	Plan check fee received on 2/4/21 and Application for New Service received on 6/22/21. 1st plan check submitted on 6/22/21 and returned on 7/3/21. 2nd plan check submitted on 9/15/21 and returned on 9/18/21. Permit issued on 11/16/21. Precon completed 2/7/22 and project to be built in 2 phases. Test shutdown on 2/11/22. Shutdown to cut-in tee completed on 2/14/22. Chlorination flush, swab, pressure test done on 2/22/22, and chlorination flush again on 2/23/22. Inspector dispatched to check job progress on 6/17/22. (8/12/22)
C0184-21-01	238 Flower Street	Single Family Home	Application for New Service submitted on 02/2/21 and plan check fee received on 02/01/21. 1st plan check submitted on 02/16/21 and redlines returned on 2/20/21. 2nd plan check submitted on 2/25/21 and returned on 2/28/21. Issued permit on 3/5/21. Inspector dispatched to check job progress on 11/12/21 and 6/17/22. Waiting for Contractor to call for inspection. (8/12/22)

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PROJECT STATUS - DEVELOPER PROJECTS			
FILE NO.	PROJECT ADDRESS	PROJECT DESCRIPTION	PROJECT NOTES/STATUS
C0186-21-01	2033 Lemnos Drive	Single Family Home	Application for New Service submitted on 02/27/21 and plan check fee received on 02/26/21. 1st plan check submitted on 2/26/21 and returned on 2/28/21. Issued permit on 3/17/21. Precon meeting held on 5/25/21. Trench excavations inspected on 5/26/21. Inspector visited site on 11/12/21 to check status of project. Precon with new Contractor held on 6/10/22. (8/12/22)
C0188-21-01	3190 Pullman Street	Commercial Property	Application for New Service submitted on 3/1/21 and plan check fee received on 3/4/21. 1st plan check submitted on 3/2/21 and returned on 3/5/21. 2nd plan check submitted on 3/12/21 and returned on 3/14/21. Permit issued on 6/23/22. (8/12/22)
C0189-21-01	975 W. 18th Street	Commercial Property	Application for New Service submitted on 3/4/21 and plan check fee received on 3/04/21. 1st plan check submitted on 3/4/21 and returned on 3/5/21. Inspector visited jobsite to check status with nothing new to report on 3/9/21. 2nd plan check submitted on 3/18/21 and returned on 3/19/21. 3rd plan check submitted on 6/13/21 and returned on 6/13/21. 4th plan check submitted on 7/29/21 and returned on 7/30/21. Permit issued on 9/1/21. Precon meeting held on 9/9/21. Meter installed and locked off on 9/16/21. Chlorination flush completed on 9/22/21. Reinspected backflow device and size on 4/29/22. Backflow tested on 5/12/22. Bac-T test and backflow test on 5/16/22, and again on 5/18/22. (8/12/22)
C0192-21-01	1750 Santa Ana Avenue	Single Family Home	Application for New Service submitted on 4/16/21 and plan check fee received on 4/17/21. 1st plan check submitted on 5/3/21 and returned on 5/3/21. 2nd plan check submitted on 6/2/21 and returned on 6/4/21. (8/12/22)
C0193-21-01	908 Magellan Street	Single Family Home	Application for New Service submitted on 4/19/21 and plan check fee received on 4/19/21. 1st plan check submitted on 4/19/21 and returned on 5/3/21. 2nd plan check submitted on 10/5/21 and returned on 10/5/21. 3rd plan check submitted on 1/22/22 and returned on 1/22/22. Permit issued on 2/15/22. Precon meeting held on 5/23/22. Inspector dispatched to check job progress on 6/17/22. (8/12/22)
C0194-21-01	981 Presidio Drive	Single Family Home	Application for New Service submitted on 4/20/21 and plan check fee received on 4/20/21. 1st plan check submitted on 9/7/21 and returned on 9/8/21. 2nd plan check submitted on 10/8/21 and returned on 10/10/21. Permit issued 3/7/22. Precon held on 8/11/22. (8/12/22)

DEVELOPER PROJECT STATUS REPORT

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FILE NO.	PROJECT ADDRESS	PROJECT DESCRIPTION	PROJECT NOTES/STATUS
C0195-21-01	2247 Donnie Road	Single Family Home	Application for New Service submitted on 4/22/21 and plan check fee received on 6/27/21. 1st plan check submitted on 6/24/21 and returned on 6/25/21. 2nd plan check submitted on 6/24/21 and returned on 6/25/21. Permit issued 7/9/21. Precon held on 7/14/21. Waiting for Contractor to call for inspection. Inspector dispatched to check job progress on 6/17/22. Precon meeting held on 7/6/22. Precon with new Contractor held on 8/16/22. (8/16/22)
C0198-21-01	257 Knox Place	Single Family Home	Application for New Service submitted on 5/7/21 and plan check fee received on 5/7/21. 1st plan check submitted on 5/8/21 and returned on 5/9/21. 2nd plan check submitted on 5/16/21 and returned on 5/17/21. Issued permit on 6/4/21. Inspector visited site on 11/10/21 to check status of project. Waiting for Contractor to call for inspection. Inspector dispatched to check job progress on 6/17/22. Precon held on 7/20/22. (8/12/22)
C0201-21-01	3370 Harbor Boulevard (The Press)	Commercial Property	Application for New Service submitted on 5/12/21 and plan check fee submitted on 5/26/21. 1st plan check submitted on 5/12/21 and returned on 6/6/21. 2nd plan check submitted on 6/22/21 and returned on 6/25/21. 3rd plan check submitted on 8/10/21 and returned on 8/13/21. Permit issued on 6/13/22. (8/12/22)
C0202-21-01	1910 Federal Avenue	Single Family Home	Application for New Service submitted on 5/18/21 and plan check fee submitted on 5/18/21. 1st plan check submitted on 5/25/21 and returned on 6/3/21. 2nd plan check submitted on 8/30/21 and returned on 8/30/21. 3rd plan check submitted on 8/31/21 and returned on 9/1/21. Permit issued on 3/7/22. Inspector dispatched to check job progress on 6/17/22. (8/12/22)
C0204-21-01	3106 Fernheath Lane	Single Family Home	Application for New Service submitted on 6/2/21 and plan check fee submitted on 6/2/21. 1st plan check submitted on 6/2/21 and returned on 6/4/21. 2nd plan check submitted on 6/22/21 and returned on 6/25/21. 3rd plan check submitted on 6/30/21 and returned on 7/1/21. Permit issued on 9/1/21. Inspector dispatched to check job progress on 11/30/21 and 6/17/22. Precon meeting held on 8/16/22. (8/16/22)

DEVELOPER PROJECT STATUS REPORT

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FILE NO.	PROJECT ADDRESS	PROJECT DESCRIPTION	PROJECT NOTES/STATUS
C0206-21-01	2168 Placentia Avenue	Single Family Home	Application for New Service and plan check fee submitted on 6/11/21. 1st plan check submitted on 6/11/21 and returned on 6/13/21. 2nd plan check submitted on 6/23/21 and returned on 6/25/21. 3rd plan check submitted on 6/28/21 and returned on 6/28/21. Permit issued on 8/13/21. Precon held on 8/17/21. Edison wire relocation supervised by Mesa Water on 6/16/22. (8/12/22)
C0207-22-01	3078 Roanoke Lane	Single Family Home	Application for New Service and plan check fee submitted on 7/6/21. 1st plan check submitted on 7/6/21 and returned on 7/9/21. 2nd plan check submitted on 12/9/21 and returned on 2/10/22. Permit issued on 2/22/22. Inspector dispatched to check job progress on 6/17/22. Waiting for Contractor to call for inspection. (8/12/22)
C0208-22-01	1951 Rosemary Place	Single Family Home	Application for New Service and plan check fee submitted on 7/7/21. 1st plan check submitted on 7/7/21 and returned on 7/9/21. 2nd plan check submitted on 7/15/21 and returned on 7/15/21. Permit issued on 8/13/21. Inspector dispatched to check job progress on 11/10/21 and 6/17/22. Precon held on 8/9/22. (8/12/22)
C0210-22-01	1730 Bonaire Way	Single Family Home	Application for New Service and plan check fee submitted on 7/21/21. 1st plan check submitted on 8/3/21 and returned on 8/13/21. 2nd plan check submitted on 8/27/21 and returned on 8/27/21. Permit issued on 3/11/22. Precon held on 3/21/22. Meter upgraded and locked off on 3/28/22. Waiting for Contractor to call for next inspection. (8/12/22)
C0211-22-01	274 Cecil Place	Single Family Home	Waiting for Application for New Service. plan check fee submitted on 7/21/21. 1st plan check submitted on 7/22/21 and returned on 7/30/21. 2nd plan check submitted on 10/14/21 and returned on 10/15/21. Permit issued on 12/22/21. Waiting for Contractor to call for inspection. Inspector dispatched to check job progress on 6/17/22. (8/12/22)
C0213-22-01	366 Esther Avenue	Single Family Home	Application for New Service and plan check fee submitted on 7/6/21. 1st plan check submitted on 7/6/21 and returned on 7/9/21. 2nd plan check submitted on 8/19/21 and returned on 8/20/21. 3rd plan check submitted on 2/10/22 and returned on 2/10/22. Permit issued on 5/30/22. Waiting for Contractor to call for inspection. (8/12/22)

DEVELOPER PROJECT STATUS REPORT

PROJECT STATUS - DEVELOPER PROJECTS			
FILE NO.	PROJECT ADDRESS	PROJECT DESCRIPTION	PROJECT NOTES/STATUS
C0214-22-01	366 Ralcam Place	Single Family Home	Application for New Service submitted on 7/22/21 and plan check fee submitted on 7/29/21. 1st plan check submitted on 8/2/21 and returned on 8/2/21. 2nd plan check submitted on 9/7/21 and returned on 9/8/21. Permit issued on 7/29/22. (8/12/22)
C0215-22-01	320 Colleen Place	Single Family Home	Application for New Service submitted on 8/2/21 and plan check fee submitted on 8/20/21. 1st plan check submitted on 8/2/21 and returned on 8/20/21. 2nd plan check submitted 9/3/21 and returned on 9/5/21. 3rd plan check submitted on 2/10/22 and returned on 2/10/22. Permit issued on 3/11/22. Precon held on 3/24/22, and a precon with new Contractor held on 5/10/22. Waiting for Contractor to call for inspection. (8/12/22)
C0216-22-01	2750 Harbor Boulevard	Commercial Property	Application for New Service submitted on 8/17/21 and waiting for plan check fee. 1st plan check submitted on 8/17/21 and returned on 8/20/21. 2nd plan check submitted on 8/20/21 and returned on 9/7/21. (8/12/22)
C0220-22-01	3109 Lincoln Way	Single Family Home	Application for New Service and plan check fee submitted on 9/8/21. 1st plan check submitted on 9/8/21 and returned on 9/8/21. 2nd plan check submitted on 9/8/21 and returned on 9/14/21. 3rd plan check submitted on 1/19/22 and returned on 1/19/22. Permit issued on 2/22/22. Inspector dispatched to check job progress on 6/17/22. Waiting for Contractor to call for inspection. (8/12/22)
C0222-22-01	257 Flower Street	Single Family Home	Application for New Service submitted on 9/9/21. and plan check fee submitted on 9/14/21. 1st plan check submitted on 10/11/21 and returned on 10/11/21. 2nd plan check submitted on 10/20 and returned on 10/20/21. 3rd plan check submitted on 2/16/22 and returned on 2/17/22. Permit issued on 3/11/22. Inspector dispatched to check job progress on 6/17/22. Waiting for Contractor to call for inspection. (8/12/22)
C0223-22-01	2425 Windward Lane	Single Family Home	Application for New Service submitted on 9/9/21. and plan check fee submitted on 9/14/21. 1st plan check submitted on 10/20/21 and returned on 10/20/21. 2nd plan check submitted on 2/16/22 and returned on 2/17/22. Permit issued on 3/7/22. Waiting for Contractor to call for inspection. (8/12/22)

DEVELOPER PROJECT STATUS REPORT

PROJECT STATUS - DEVELOPER PROJECTS			
FILE NO.	PROJECT ADDRESS	PROJECT DESCRIPTION	PROJECT NOTES/STATUS
C0227-22-01	246 Cecil Place	Single Family Home	Application for New Service submitted on 9/27/21 and plan check fee submitted on 9/28/21. 1st plan check submitted on 9/27/21 and returned on 10/9/21. Permit issued on 1/6/22. Inspector dispatched to check job progress on 6/17/22. Waiting for Contractor to call for inspection. (8/12/22)
C0228-22-01	319 E. 16th Place	Single Family Home	Application for New Service submitted on 9/29/21 and waiting on the plan check fee submittal. 1st plan check submitted on 9/30/21 and returned on 10/9/21. Revised 1st submittal and resubmitted on 10/15/21. 2nd plan check submitted on 10/26/21 and returned on 10/29/21. Permit issued on 11/30/21. Inspector dispatched to check job progress on 6/17/22. Waiting for Contractor to call for inspection. (8/12/22)
C0230-22-01	1945 Placentia Avenue (Units B, F & G)	Commercial	Application for New Service submitted on 10/06/21 and the waiting for plan check fee. 1st plan check submitted on 10/05/21 and returned 10/9/21. 2nd plan check submitted 11/11/21 and returned on 11/18/21. Permit issued on 2/15/22. Precon held on 3/23/22. Inspector dispatched to check job progress on 6/17/22. Waiting for Contractor to call for next inspection. (8/12/22)
C0231-22-01	456 Esther Street	Single Family Home	Application for New Service and plan check fee submitted on 10/06/21. 1st plan check submitted on 10/06/21 and returned on 10/10/21. 2nd plan check submitted on 10/14/21 and returned on 10/15/21. Permit issued on 11/9/21. Inspector dispatched to check job progress on 6/17/22. Precon meeting held on 6/21/22. Waiting for Contractor to call for inspection. (8/12/22)
C0233-22-01	473 Ogle Street	Single Family Home	Application for New Service submitted on 10/25/21. Plan check fee submitted on 11/1/21. 1st plan check submitted on 10/25/21 and returned on 10/29/21. 2nd plan check submitted on 11/3/21 and returned on 11/5/21. Permit issued on 11/16/21. Precon held on 4/26/22. Waiting for Contractor to call for inspection. (8/12/22)
C0234-22-01	1750 Newport Boulevard	Commercial	Application for New Service submitted on 10/22/21. Plan check fee submitted on 11/15/21. 1st plan check submitted on 10/25/21 and returned on 11/18/21. 2nd plan check submitted on 11/29/21 and returned on 11/30/21. Permit issued on 06/23/22. (8/12/22)

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PROJECT STATUS - DEVELOPER PROJECTS			
FILE NO.	PROJECT ADDRESS	PROJECT DESCRIPTION	PROJECT NOTES/STATUS
C0237-22-01	862 18th Street	Commercial	Application for New Service submitted on 10/12/21. Plan check fee submitted on 11/2/21. 1st plan check submitted on 11/5/21 and returned on 11/5/21. 2nd plan check submitted on 11/11/21 and returned on 11/13/21. 3rd plan check submitted on 1/19/22 and returned on 1/23/22. Permit issued on 8/8/22. (8/12/22)
C0238-22-01	236 Loyola Road	Single Family Home	Application for New Service submitted on 11/1/21. Plan check fee submitted on 11/2/21. 1st plan check submitted on 11/1/21 and returned on 11/5/21. 2nd plan check submitted on 11/14/21 and returned on 11/14/21. 3rd plan check submitted on 11/16/21 and returned on 11/18/21. Permit issued on 2/28/22. Precon meeting held on 4/5/22. Waiting for Contractor to call for inspection. (8/12/22)
C0239-22-01	2263 Rutgers Drive	Single Family Home	Application for New Service and plan check fee submitted on 11/4/21. 1st plan check submitted on 11/4/21 and returned on 11/5/21. 2nd plan check submitted on 12/23/21 and returned to 12/24/21. 3rd plan check submitted on 2/6/22 and returned on 2/8/22. Revised 3rd plan check submitted 3/7/22 and returned on 3/8/22. Permit issued on 5/24/22. (8/12/22)
C0244-22-01	355 Princeton Drive	Single Family Home	Application for New Service submitted on 11/18/21. 1st plan check submitted on 11/18/21 and returned on 11/23/21. 2nd plan check submitted on 12/1/21 and returned on 12/2/21. Permit issued on 12/21/21. Inspector dispatched to check job progress on 6/17/22. (8/12/22)
C0248-22-01	1396 Galway Lane	Single Family Home	Application for New Service submitted on 1/5/22. Plan check fee submitted on 12/23/21. 1st plan check submitted on 12/14/21 and returned on 12/24. 2nd plan check submitted on 1/5/22 and returned on 1/6/22. Permit issued on 2/15/22. Inspector dispatched to check job progress on 6/17/22. Precon held on 6/23/22. Hot-Tap completed and services installed on 6/28/22, and 6/29/22. Base compaction and test on 6/30/22. Meter installed on 7/6/22. Owner and Contractor deciding on options for abandonment of service as of 8/10/22. (8/12/22)
C0250-22-01	1008 W. Wilson & 2255 Canyon Drive	Two Single Family Home	Application for New Service submitted on 1/14/22 and plan check fee submitted on 1/12/22. 1st plan check submitted on 1/14/22 and returned on 1/15/22. 2nd plan check submitted on 2/7/22 and returned on 2/10/22. 3rd plan check submitted on 3/15/22 and returned on 3/18/22. 4th plan check submitted on 3/23/22 and returned on 3/26/22. (8/12/22)

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PROJECT STATUS - DEVELOPER PROJECTS			
FILE NO.	PROJECT ADDRESS	PROJECT DESCRIPTION	PROJECT NOTES/STATUS
C0255-22-01	218 E. 18th Street	Single Family Home	Application for New Service submitted on 1/28/22 and plan check fee submitted on 2/6/22. 1st plan check submitted on 1/28/22 and returned on 2/11/22. Revised 1st plan check submitted on 2/16/22 and returned on 2/17/22. 2nd plan check submitted on 6/12/22 and returned on 6/12/22. (8/12/22)
C0257-22-01	3143 Bermuda Drive	Single Family Home	Application for New Service and plan check fee submitted on 2/9/22. 1st plan check submitted on 2/6/22 and returned on 2/11/22. 2nd plan check submittal on 4/14/22 and returned on 4/15/22. Permit issued on 8/9/22. (8/12/22)
C0258-22-01	2930 Bristol Street	Commercial (The LAB)	Application for New Service and plan check fee submitted on 1/27/22. 1st plan check submitted on 3/25/22 and returned on 3/26/22. 2nd plan check submitted on 4/12/22 and returned on 4/15/22. 3rd plan check submitted on 5/27/22 and returned on 5/30/22. Permit issued on 8/8/22. (8/12/22)
C0259-22-01	530 W. Wilson Street	Apartment Complex	Application for New Service submitted on 2/14/22 and plan check fee submitted on 2/15/22. 1st plan check submitted on 2/16/22 and returned on 2/22/22. 2nd plan check submitted on 3/7/22 and returned on 3/12/22. 3rd plan check submitted on 3/21/22 and returned on 3/26/22. (8/12/22)
C0261-22-01	2040 Paloma Drive	Single Family Home	Application for New Service submitted on 2/20/22. plan check fee submitted on 2/28/22. 1st plan check to be submitted on 2/20/22 and returned on 2/28/22. 2nd plan check submitted on 5/9/22 and returned on 5/10/22. (8/12/22)
C0262-22-01	264 E. 20th Street	Single Family Home	Application for New Service and plan check fee submitted on 3/7/22. 1st plan check submitted on 3/7/22 and returned on 3/8/22. 2nd plan check submitted on 3/12/22 and returned on 3/12/22. (8/12/22)
C0263-22-01	257 Sierks Street	Single Family Home	Application for New Service submitted on 3/17/22 and plan check fee submitted on 3/18/22. 1st plan check submitted on 3/17/22 and returned on 3/26/22. 2nd plan check submitted on 6/9/22 and returned on 6/10/22. (8/12/22)
C0264-22-01	376 16th Place	Single Family Home	Application for New Service submitted on 3/9/22 and plan check fee submitted on 3/23/22. 1st plan check submitted on 3/14/22 and returned on 3/26/22. 2nd plan check submitted on 3/31/22 and returned on 4/2/22. (8/12/22)

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PROJECT STATUS - DEVELOPER PROJECTS			
FILE NO.	PROJECT ADDRESS	PROJECT DESCRIPTION	PROJECT NOTES/STATUS
C0265-22-01	1424 Shamrock Lane	Single Family Home	Application for New Service submitted on 3/15/22 and plan check fee submitted on 3/16/22. 1st plan check submitted on 3/16/22 and returned on 3/26/22. 2nd plan check submitted on 4/4/22 and returned on 4/7/22. Permit issued on 5/16/22. Waiting for Contractor to call for inspection. (8/12/22)
C0266-22-01	3505 Cadillac Avenue, Suite F-7	Commercial	Application for New Service submitted on 12/10/21 and plan check fee submitted on 3/17/22. 1st plan check submitted on 3/24/22 and returned on 3/26/22. 2nd plan check submitted on 5/15/22 and returned on 5/16/22. Permit issued on 5/31/22. Waiting for Contractor to call for inspection. (8/12/22)
C0267-22-01	2296 Orange Avenue	Single Family Home	Application for New Service submitted on 3/23/22 and plan check fee submitted on 3/22/22. 1st plan check submitted on 4/6/22 and returned on 4/7/22. 2nd plan check submitted on 4/13/22 and returned on 4/15/22. Permit issued on 5/16/22. Precon held on 6/16/22. Meter upgraded on 7/25/22. (8/12/22)
C0268-22-01	1040 Spinnaker Run	Single Family Home	Application for New Service submitted on 4/5/22 and plan check fee submitted on 4/6/22. 1st plan check submitted on 4/2/22 and returned on 4/7/22. 2nd plan check submitted on 4/14/22 and returned on 4/15/22. Permit issued on 5/23/22. (8/12/22)
C0269-22-01	1749 Newport Boulevard	Commercial	Application for New Service submitted on 3/9/22 and plan check fee submitted on 4/6/22. 1st plan check submitted on 3/9/22 and returned on 4/9/22. 2nd plan check submitted on 4/19/22 and returned on 4/20/22. Permit issued on 5/13/22. Precon held on 6/6/22. Hot-Tap done on 6/23/22. Thrustblock placement done on 6/24/22. Chlorination and pressure test completed on 6/27/22. Bac-T samples collected and tested on 6/28/22. Shutdown for abandonment performed on 6/30/22. (8/12/22)
C0270-22-01	2113 Thurin Street	Single Family Home	Application for New Service submitted on 3/18/22 and plan check fee submitted on 4/14/22. 1st plan check to be submitted on 3/18/22 and returned on 4/25/22. (8/12/22)

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PROJECT STATUS - DEVELOPER PROJECTS			
FILE NO.	PROJECT ADDRESS	PROJECT DESCRIPTION	PROJECT NOTES/STATUS
C0271-22-01	2039 Pomona Avenue	Apartment Complex	Application for New Service submitted on 4/6/22 and plan check fee submitted on 4/19/22. 1st plan check submitted on 4/25/22 and returned on 4/29/22. 2nd plan check submitted on 5/18/22 and returned on 5/31/22. 3rd plan check submitted on 6/9/22 and returned on 6/10/22. Permit issued on 06/27/22. Precon held on 7/20/22. (8/12/22)
C0272-22-01	2941 Java Road	Single Family Home	Application for New Service and plan check fee submitted on 4/14/22. 1st plan check submitted on 4/14/22 and returned on 4/15/22. (8/12/22)
C0273-22-01	811 Saint Clair Street	Single Family Home	Application for New Service submitted on 4/26/22 and plan check fee submitted on 4/29/22. 1st plan check submitted on 4/25/22 and returned on 4/29/22. Permit issued on 5/23/22. Waiting for Contractor to call for inspection. (8/12/22)
C0274-22-01	120 Albert Place	Apartment Complex	Application for New Service submitted on 4/19/22 and plan check fee submitted on 4/29/22. 1st plan check submitted on 4/19/22 and returned on 4/29/22. 2nd plan check submitted on 5/31/22 and returned on 5/31/22. (8/12/22)
C0276-22-01	453 Costa Mesa Street	Single Family Home	Application for New Service submitted on 5/12/22 and plan check fee submitted on 5/12/22. 1st plan check submitted on 5/12/22 and returned on 5/20/22. 2nd plan check submitted on 6/21/22 and returned on 6/21/22. Permit issued on 8/8/22. (8/12/22)
C0277-22-01	166 Magnolia Street	Single Family Home	Application for New Service submitted on 5/16/22 and plan check fee submitted on 5/20/22. 1st plan check submitted on 5/20/22 and returned on 5/21/22. 2nd plan check submitted on 5/27/22 and returned on 5/30/22. Permit issued on 7/18/22. Precon held on 7/21/22. (8/12/22)
C0278-22-01	388 Bucknell Road	Single Family Home	Application for New Service submitted on 5/21/22 and plan check fee submitted on 5/24/22. 1st plan check submittal on 6/14/22 and returned on 6/14/22. 2nd plan check submitted on 6/20/22 and returned on 6/20/22. Permit issued on 8/9/22. (8/12/22)
C0280-22-01	3303 Hyland Avenue	Tesla Charging Stations	Application for New Service submitted on 6/13/22 and no plan check fee as the infrastructure is for the City of Costa Mesa. 1st plan check submittal on 6/13/22 and returned on 6/14/22. (8/12/22)
C0281-22-01	1789 Nantucket Place	Single Family Home	Application for New Service and plan check fee submitted on 6/16/22. 1st plan check submittal on 6/6/22 and returned on 6/17/22. (8/12/22)

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PROJECT STATUS - DEVELOPER PROJECTS			
FILE NO.	PROJECT ADDRESS	PROJECT DESCRIPTION	PROJECT NOTES/STATUS
C0282-22-01	Fairview Road Medians	OC405 - Medians for City of Costa Mesa	Application for New Service submitted on 6/20/22 and no plan check fee as the infrastructure is for the City of Costa Mesa. Waiting for 1st plan check. (8/12/22)
C0283-22-01	2167 Miner Street	Two Single Family Home	Application for New Service submitted on 6/21/22 and plan check fee submitted on 6/30/22. 1st plan check submittal on 6/23/22 and returned on 7/18/22. 2nd plan check submittal on 7/18/22 and returned on 7/19/22. (8/12/22)
C0284-22-01	2526 Carnegie Ave	Single Family Home	Application for New Service submitted on 6/23/22 and plan check fee submitted on 6/30/22. 1st plan check submitted on 6/23/22 and returned on 7/10/22. (8/12/22)
C0285-22-01	1589 Orange Ave	Single Family Home	Application for New Service submitted on 7/20/22 and plan check fee submitted on 7/29/22. 1st plan check submitted on 7/19/22 and returned on 8/7/22. (8/12/22)
C0286-22-01	2004 Meyer Place	Single Family Home	Application for New Service submitted on 7/22/22 and plan check fee submitted on 7/29/22. 1st plan check submitted on 7/19/22 and returned on 8/7/22. (8/12/22)
C0287-22-01	2050 National Ave	Single Family Home	Waiting for Application for New Service and plan check fee submitted on 7/29/22. Waiting for 1st plan check to be submitted. (8/12/22)
C0288-23-01	834 Saint Clair Street	Single Family Home	Application for New Service submitted on 8/1/22 and plan check fee submitted on 8/3/22. 1st plan check submitted on 7/21/22 and returned on 8/7/22. (8/12/22)
C0289-23-01	901 Victoria Street	Single Family Home	Application for New Service submitted on 7/17/22 and plan check fee submitted on 7/25/22. Waiting for 1st plan check to be submitted. (8/12/22)
C0290-23-01	1097 Daniel Drive	Single Family Home	Application for New Service submitted on 7/30/22 and waiting for plan check fee to be submitted. Waiting for 1st plan check to be submitted. (8/12/22)
C0291-23-01	2275 Newport Blvd	Commercial Property	Application for New Service submitted on 8/3/22 and waiting for plan check fee to be submitted. 1st plan check submitted on 8/1/22 and returned on 8/7/22. (8/12/22)
C0292-23-01	660 Beach Street	Single Family Home	Application for New Service submitted on 8/3/22 and waiting for plan check fee to be submitted. Waiting for 1st plan check to be submitted. (8/12/22)
C0293-23-01	184 E. 20th Street	Single Family Home	Waiting for Application for New Service and plan check fee to be submitted. Waiting for 1st plan check to be submitted. (8/12/22)

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Project Title: OC-44 Replacement and Rehabilitation Evaluation and Cathodic Protection Study

File No.: M 2034

Description: Evaluate potential repair and replacement options.

Status: Request for Bid sent out to contractors in February 2019. Six (6) bids received in March 2019. The Board awarded a contract to lowest bidder E.J. Meyer Company in April 2019. Kick-off meeting held in April 2019. Reviewed submittals. Met with SARWQB in May 2019 and discussed permit requirements with Susan Beeson. In May 2019, met with OCSD and went over requirements for the Special Purpose Discharge Permit (SPDP). Project progress meeting in June 2019 and coordination meeting with MWD in June 2019. Held permit status meeting in July 2019, traffic coordination meeting with Fletcher Jones and project progress meeting in July 2019. Submitted application package to OCSD for SPDP in July 2019. Received SPDP from OCSD in September 2019. Coordination meeting with Fletcher Jones and project progress meeting held in September 2019. Contractor mobilized in September 2019 and started dewatering efforts. Project is substantially complete and line is ready for use. Native planting is complete and the contractor is providing maintenance of planted vegetation. The post-construction walk-through meeting was held in April 2020. Planting establishment and 120-day maintenance period completed in July 2020. The final inspection and walk-through meeting was held in July 2020. Planting establishment and maintenance report was submitted to the regulatory agencies in September 2020. Non-native plant herbiciding was performed in November 2020, May 2021, September 2021, and June 2022. (8/11/22)

Project Title: Pipeline Testing Program

File No.: MC 2141

Description: Implement Resolution No. 1525 Replacement of Assets to annually perform non-destructive testing of 1% of the distribution system, and destructive testing of segments that are shown to have less than 70% of original wall thickness by non-destructive testing.

Status: Three (3) miles of AC pipe constructed in 1956 were selected for non-destructive wall thickness measurement in January 2019. The report was received in February 2019. Five (5) AC pipe samples were sent to the testing lab in May 2019, and the wall thickness measurement report was received in June 2019. With more data collected from AC pipe samples, a proposed update of Resolution No. 1442 Replacement of Assets was approved by the Board in October 2019. Staff developed a process for classifying pipeline breaks, and provided a class to the Distribution crews in November 2019. Four (4) AC pipe samples collected during valve replacements were sent for EDS testing in January 2020. Lab reports were received in March 2020 and evaluation of the lab results was received in June 2020. MWDOC performed approximately forty (40) miles of leak detection and found one (1) suspected pipeline leak. Staff performed a follow up leak detection and could not replicate the suspected

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leak. Thirteen (13) AC pipe samples collected by staff during valve replacements and break responses were sent for wall thickness measurement, EDS testing, and remaining useful life estimates. Wall thickness lab reports and useful life estimate report were received in February 2021. MWDOC staff performed thirty (30) miles of leak detection for main lines and service laterals in January 2021. A report of their findings found no mainline leaks. Thirty (30) additional miles of leak detection was received in March 2021. No mainline leaks were reported. Fourteen (14) samples of AC Pipe were collected as part of valve and hydrant replacements and were shipped to the lab for wall thickness measurements in January 2022. The report was received in April 2022 and no pipeline replacements were recommended. Leak detection for ninety (90) miles of main line started in April 2022 and is continuing. The report was received in June 2022. No suspected mainline leaks were reported. AC Pipe and samples collected by the contractor as part of the Wilson Street Pipeline Replacement were shipped to the lab for wall thickness measurements in April 2022. The report was received in July 2022. No pipeline replacements were recommended in the report. Preliminary findings of a relationship between AC pipeline wall hardness and type of break are being evaluated. (8/12/22)

Project Title: Chandler & Croddy Wells and Pipeline Project

File No.: M18-113

Description: Design, documentation, permitting, and construction of two (2) new wells located on Chandler Avenue and Croddy Way in the City of Santa Ana and the distribution pipeline connecting the wells to Mesa Water's supply system.

Status: The Chandler and Croddy Wells and Pipeline Project Team includes Design Engineer TetraTech, Construction Manager Butier Engineering, and Community Outreach Consultant Murakawa & Associates. The project has four (4) phases, with a construction bid package for each phase. The status of each phase is below.

Phase 1 Demolition: Demolition of the existing office buildings at the well site properties was awarded to Standard Demolition in July 2020 and was completed in October 2020.

Phase 2 Well Drilling: Well Drilling was awarded to Zim Industries dba Bakersfield Well & Pump in August 2020. Permits for well drilling were received from Orange County Heath Care Agency (OCHCA) in October 2020. Mobilization for drilling at the Croddy Well site started in October 2020. Sound walls were constructed at both sites. Croddy Well drilling is complete. Test pumping produced 4,000 gallons per minute. Water quality depth and well blend sample results indicate good water quality. Chandler Well pilot hole was drilled and samples for the aquifer and the groundwater indicate good water quality to 970 feet. The pilot hole reaming and casing installing was completed in May 2021. Test pumping of Chandler Well produced 4,320 gallons per minute. Water quality depth samples and well blend samples indicate good water quality.

Phase 3 Well Equipping: A contract award to Gateway Pacific was approved at the February 2021 Board meeting. A project team kickoff meeting was held in March 2021. The team has identified the long lead time items, and is in the submittal process for these items. Mobilization occurred in May 2021. Underground work and concrete forming is mostly complete at both sites. This was facilitated by the receipt of the long

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awaited SCE permit for the Chandler Well site in March 2022. Well pedestals have been completed and approved by OCHCA. Permits from AQMD for the backup generators and ammonia scrubbers have been issued. Long lead time items affected by the global supply chain continue to arrive. Most of the instrumentation has been received. Chemical tanks were received and set in the chemical facilities in February 2022. Backup diesel generators were received and set in March 2022. The well pumps passed witness testing in February 2022. The electrical buildings, well buildings, and site perimeter walls at both sites are constructed and equipment is being installed. The chemical skids were delivered in July 2022. The Variable Frequency Drives (VFDs) are expected to be the last critical equipment to be delivered late in October 2022.

Phase 4 Pipeline: The Board awarded a construction contract with Ferreira Construction at the April 2021 Committee meeting. Notice to Proceed with the potable water transmission pipeline construction was issued in June 2021. A preconstruction meeting was held in June 2021. The team identified the long lead time items and is in the submittal process. Encroachment permits were obtained by the contractor from the City of Santa Ana in August 2021. The contractor potholed the pipeline alignment to confirm the location and depths to buried utilities in the area. A minor realignment of the Chandler Pipeline was designed to avoid unexpected natural gas pipeline and services. Materials for the Croddy Storm Drain arrived in December 2021, and construction of the Croddy Storm Drain was completed in March 2022. Poor soil conditions were encountered during the Croddy Storm Drain construction, and the project team is evaluated alternate shoring and dewatering methods for the Croddy Pipeline. Materials for the 30" and 16" transmission lines arrived in January and February 2022. Construction of the 30" transmission pipeline on MacArthur Boulevard began in March 2022, and is progressing from Croddy Way to the tie in to the distribution system at MacArthur and Hyland. Construction of the 30" pipeline in Croddy Way began at the Croddy Well No. 14 site in July 2022 and is progressing to MacArthur Boulevard. (8/12/22)

Project Title: SCADA Control Room and Wet Labs Upgrade Project

File No.: M20-105

Description: Relocation of the SCADA Control Room and laboratory, including the addition of an education center.

Status: In November 2019, the Board directed staff to proceed with Design Concept #2 of the Mesa Water Reliability Facility (MWRF) Outreach Center. Mesa Water obtained a cost proposal from IBI Group. The Scope of Work also incorporates the design of two MWRF spare parts storage buildings (located at the MWRF) and wells spare parts storage building (located at Well No. 7) as part of the design services. The Board approved this item at the April 2020 Board meeting. The pre-design kick-off meeting was held in April 2020. The conceptual design was reviewed in June 2020 and preliminary cost estimate discussed in July 2020. At the August 2020 Committee meeting, the Mesa Water Education Center building concept was approved by the Board. Additionally, a contract was awarded to Mad Systems for the exhibit design. In September 2020, a final design kick-off meeting was held with the architect and exhibit

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design teams. In October 2020, the Mesa Water team toured the Albert Robles Center for Water Recycling and Environmental Learning with Mad Systems. In October 2020, the design team held a site visit at the MWRF to discuss landscaping and courtyard concepts. A preliminary landscaping concept was received in November 2020. The 50% design submittal was received in December 2020. The comments to the submittal were discussed during progress meetings in January 2021 and February 2021. 50% Construction Documents were submitted in March 2021. The project team held detailed design meetings regarding storage buildings, the IT Server Room, and transitional plans to keep the MWRF in service during construction. In June 2021, staff reviewed and selected finishes for the Education Center and Administration Building. Transitional plans to keep the MWRF in service were finalized and the delivery and setup of the temporary facilities began in October 2021. Mesa Water received proposals for construction management services for the project in early June 2021. A construction manager was selected in June 2021 and they have begun reviewing construction documents. The draft 100% Construction Documents were submitted in July 2021. Staff reviewed the submittal and provided comments. The revised Construction Documents were submitted in September 2021. The Request for Bid for construction was sent out in September 2021 and bids were received in October 2021. Three (3) bids were received from qualified contractors, and the Board awarded a contract to Hamel Contracting, Inc. at the October 2021 Committee meeting. The kick-off meeting was held in November 2021. The contractor has completed the perimeter wall footings, Administration Building trench repair, fire protection pre-action system, and the Southwest Storage Building foundation. The contractor is currently working on the Education Center slab on grade, the Administration Building interior floors and walls and the exterior concrete masonry wall (CMU) walls, the Southwest Storage Building slab on grade and CMU walls, and the Well No. 7 Storage Building site grading.
(8/11/22)

Project Title: Wilson Street Pipeline Replacement Project

File No.: M21-220A

Description: Design, documentation, and permitting for replacement of pipeline in Wilson Street between Newport Boulevard and Harbor Boulevard.

Status: Scope of Work and Request for Quote for the design, documentation, and permitting for the Wilson Street Pipeline Replacement Project was prepared and sent to the design consultants in July 2020. Received five (5) proposals in August 2020. Selected Water Systems Consultants, Inc. to prepare the design. The kick-off meeting was held in August 2020. Technical Memorandum No. 1, providing alternative pipeline layouts, was submitted for review in October 2020. The 50% Design package was submitted for review in December 2020. The comments to the submittal were analyzed and discussed in February 2021. The consultant completed the 90% Design Submittal in March 2021. The Request for Bid was sent out to contractors in March 2021. Eight (8) bids were received in April 2021. The Board awarded a construction contract to J.A. Salazar at the May 2021 Board meeting. The contract with J.A. Salazar was executed

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and the pre-construction meeting for the project was held in June 2021. The pre-construction meeting with the City of Costa Mesa was held in August 2021 and the contractor started potholing in August 2021. Following review of the potholing results, the installation of the mainline started in October 2021. The contractor has completed the installation of the 12-inch PVC line in Wilson Street from Harbor Boulevard to Newport Boulevard, has constructed all of the tie-ins to the distribution system, and has completed all service line connections to the new 12-inch line. The project is complete and is being closed. (8/11/22)

Project Title: 1951 Cohort Pipeline Replacement Project

File No.: M21-220A

Description: Design, documentation, and permitting for replacement of 3.5 miles of pipeline in Hamilton Street, Pomona Avenue, Wallace Avenue, Anaheim Avenue, and Maple Avenue.

Status: Scope of Work and Request for Proposal for providing Construction Management (CM) Services for the Wilson Street and 1951 Cohort Pipeline Replacement Projects sent out to On-Call Consultants in November 2020. Five (5) proposals received in December 2020. CDM Smith was selected to provide the CM Services.

Scope of Work and Request for Proposal for providing design services for the 1951 Cohort Pipeline Replacement sent out to on-call consultants in December 2020. Two (2) proposals were received in December 2020. Tetra Tech was selected to prepare the design. The project kick-off meeting was held in February 2021. The Consultant delivered Technical Memorandum No. 1 – Alignment Options and Recommendations and the Preliminary Design Report in July 2021. Mesa Water staff has reviewed Technical Memorandum No. 1 and the Preliminary Design Report. The project's 50% Design Submittal was submitted in October 2021 and reviewed by Mesa Water staff. The project team is currently working to complete the 90% Design Submittal. The construction of the 1951 Cohort Pipeline Replacement Project has been moved to the years following the CIPR Program. (8/11/22)

Project Title: Mainline Valve Replacement Project Phases I through IV

File No.: M21-220C

Description: Design, documentation, and permitting for replacement of mainline valves within the distribution system per the Mainline Valve Spacing Policy.

Status: At the October 2020 Board meeting, the Mainline Valve Spacing Policy was approved by the Board. A Scope of Work and Request for Quote for the design, documentation, and permitting for the Mainline Valve Replacement Project was prepared and was sent to on-call design consultants in October 2020. Four (4) proposals were received in November 2020. Tetra Tech was selected to prepare the final design. The project kick-off meeting was held in January 2021. The Consultant developed the project's permit plan. The 50% Design Submittal was delivered for review in May 2021. Mesa Water staff has completed the testing of shutdowns required for the Phases 1 and 2 valve replacement in September 2021. The Consultant

MESA WATER AND OTHER AGENCY PROJECTS STATUS REPORT

August 2022

submitted the 90% Design Submittal for Phase 1 in October 2021. Staff reviewed the Phase 1 90% and 100% Design Submittals. A Request for Bid for Phase 1 was sent out in January 2022 and a pre-bid meeting was held in January 2022. Seven (7) bids were received from qualified contractors in February 2022. Mesa Water staff reviewed the bids and checked references of the low bid contractor. At the February 2022 Committee meeting, the Board awarded a contract to Big Ben Engineering. The pre-construction meeting for Phase 1 of the project was held in April 2022. The contractor is currently working on permitting, submittals, and procurement. Construction of Phase 1 began in July 2022. The Contractor has completed the replacement of 14 mainline valves to date. For the Phase 2 design, the design documents were completed in June 2022. The Request for Bid for Phase 2 will be held until construction bids have been received for the Reservoirs 1 and 2 Pump Station Upgrades Project. (8/11/22)

Project Title: Reservoirs 1 and 2 Pump Station Upgrades Project

File No.: M21-210B2

Description: The Reservoir Upgrades Project has several components to increase the efficiency and reliability of Reservoirs 1 and 2: Chemical storage and feed systems (sodium hypochlorite and aqueous ammonia) to help reduce nitrification issues in the distribution system; Pump replacement and conversion of drivers from gas engines to electrical motors; Upgrades to reservoir electrical service through SCE; Installation of diesel generator systems to power the reservoirs in the event of an emergency; Miscellaneous system rehabilitation and upgrades including electrical gear replacement, pipeline rehabilitation, pipeline modifications, and instrument replacement based on the results of site visits and related analyses; and Slurry Dewatering Pit upgrades located at the Reservoir 1 site.

Status: Following the approval of the recommendations of the Water, Power, and Supply Chain Reliability Assessment, Mesa Water developed a design Scope of Work for the Reservoirs 1 and 2 Upgrades Project. A proposal was solicited from a CIPR on-call design consultant and the project's Preliminary and Final Design kicked off in May 2021. A site visit for the project was held with the consultant in May 2021. The project team performed a 3-D scan of Reservoirs 1 and 2 in June 2021. The consultant delivered a draft version of Technical Memorandum No.1 – Reservoir 1 Site Master Plan and the draft Permit Plan in July 2021. Following Mesa Water's review of TM1 and the Permit Plan, the consultant began work on the Preliminary Design Report. The Preliminary Design Report was delivered in November 2021 and the Preliminary Design Report Workshop was held in September 2021. The design team submitted the 60% Design Submittal in December 2021. Staff reviewed and provided comments on the 60% Design Submittal. The 90% Design Submittal was received in March 2022. Staff has reviewed the submittal and provided comments to the design team. The 100% submittal was received May 2022 and is currently under review. The Request for Bid will be sent out to five pre-qualified contractors in August 2022. (8/16/22)

MESA WATER AND OTHER AGENCY PROJECTS STATUS REPORT

August 2022

Project Title: Excavation Slurry Dewatering Pit Project

File No.: M21-250D

Description: Design, documentation, and permitting for a dewatering process that will be constructed in Mesa Water's Operations Yard to provide dewatering for the hydrovac excavation slurry.

Status: A Scope of Work and Request for Quote for the design, documentation, and permitting for the Excavation Slurry Dewatering Pit Project was prepared and sent to on-call design consultants in October 2020. Following selection of an on-call design consultant, the kick-off meeting and site visit were held in November 2020. The draft memo was submitted for review in February 2021 and was reviewed by Mesa Water staff. Mesa Water staff has provided direction and the design of the Dewatering Pit is included in the Scope of Work for the Reservoirs 1 and 2 Pump Station Upgrades Project. The Final Technical Memorandum was submitted for review in June 2021. The Dewatering Pit will be designed and constructed as part of the Reservoirs 1 and 2 Pump Station Upgrades Project. (8/11/22)

Project Title: Vault Rehabilitation and Abandonment

File No.: M21-220B

Description: Design and construction of abandonment of obsolete facilities and rehabilitation of one arterial valve on OC-44.

Status: NV-5 was selected as the design consultant. Project kickoff was held in September 2020. Site visits for all of the vaults were conducted in October 2020. A preliminary design report was received in November 2020 and reviewed by staff. The current project includes abandoning three (3) vaults on OC-44 and three (3) unused pressure relief stations, and replacing the Bonita Creek Park Arterial Valve on OC-44. Rehabilitation of the interties is on hold pending decisions on the need for the three interties, and will be completed in a future capital program. A CEQA evaluation of the project recommended filing a Categorical Exemption from CEQA. The Categorical Exemption was received in July 2021 and filed with the County of Orange in September 2021. 90% Plans and Specifications were received in July 2021 and were reviewed by staff. The City of Huntington Beach asked that all work requiring an OC-44 shutdown be completed prior to December 2021 due to a planned outage of another import source. The project was put out to bid in August 2021. Four (4) bids were received in September 2021. The Board awarded a construction contract to T.E. Roberts, Inc. at the September 2021 Committee meeting. Notice to Proceed to the selected contractor was provided in October 2021. Contractor mobilized in November 2021 and completed the Phase 1 vaults which required a complete shutdown of the OC-44 pipeline. Phase 1 construction was completed before the end of November 2020, and the 8.1 mile OC-44 pipeline was successfully disinfected and returned to service in December 2020. Phases 2 and 3 of the project were delayed due to an FAA clearance needed for the site at John Wayne Airport. The FAA clearance letter was received in April 2022. The contractor mobilized for Phases 2 and 3 in May 2022, and completed the Baker

MESA WATER AND OTHER AGENCY PROJECTS STATUS REPORT
August 2022

Pressure Relief Station vault abandonment and Newport Hills Vault #2 abandonment, and replaced the vault lid at the tie in with City of Santa Ana at Sunflower. Abandonment of the Airport Loop Pressure Relief Station was completed in June 2022. Construction is complete and record drawings were received in August 2022. The project is complete and is being closed. (8/12/22)

Project Title: Operational IT Infrastructure Security Project

File No.: M21-250F

Description: The project will align the Operational IT infrastructure and management model with Mesa Water enterprise IT system standards and CISA recommendations.

Status: The project kick-off meeting was held in May 2021. The new servers, UPS, and isolated network have been installed and configured. The project team has procured the required switches and equipment. They are currently configuring monitored devices for SolarWinds, building SolarWinds reports and notifications, and configuring network equipment for the Emergency Operations Center server. (8/16/22)

Water Quality Call Report

July 2022

Date: 7/12/2022
Source: Phone/Visit
Address: 2301 Santiago Drive
Description: Customer called to report blue-tinted water coming from internal plumbing fixtures of the home. The property is under construction.

Outcome: Prior to going to the customer's home, staff checked the water from two nearby hydrants and the water was clear with no blue color or odor. Water from all visible hose bibs on the property were checked and none had a blue tint present at the time of collection. A water sample collected in the garden planter area of the home was absent of color while water from several internal fixtures had a light blue tint. The water from the internal fixtures would clear up after flushing for a few minutes, but after the water was turned off and allowed to sit for 15 minutes in the pipe, the water coming out of the fixtures again had a blue tint. The property has water treatment systems installed by the previous owners and it is unknown what is causing the blue-colored water. The issue appears to be internal only. Customer was advised to contact a plumber to troubleshoot the internal issue and inspect the onsite treatment systems. The case was reported to Orange County Health Care Agency and a letter was sent to the customer asking for a backflow to be installed due to the potential for on-site cross-connections. Customer later reported that plumber removed treatment systems and the blue water issue stopped.

Date: 7/13/2022
Source: Phone
Address: John Wayne Airport
Description: Internal bacteriological samples taken at jetway lines have had high heterotrophic plate counts (HPCs) in the past, but recently HPCs are mostly non-detect (ND). Caller wants to know if Mesa Water District has done anything differently to the water to cause the HPC levels to go down.

Outcome: Explained to caller that distribution bacteriological samples are taken weekly, including two surrounding the airport which have always been ND or very low in HPC with good chlorine residual. Informed the caller that any airport plumbing after the water meter is private property. Advised the caller to check with the airport, laboratory or person collecting the samples about the difference in HPCs.

Date: 7/15/2022
Source: Phone/Visit
Address: 734 Lynn Court
Description: Customer reported “cloudy” looking water flowing through all fixtures of the home. Customer also explained that neighbors in the HOA were also experiencing the same cloudy water.

Outcome: During site visit, water from the front hose bib was clear while water from the inside appeared to have entrained air that dissipated after a few minutes. Recent repairs conducted by Distribution crews may have caused the entrained air. Customer was advised to flush all fixtures in the home.

Date: 7/20/2022
Source: Phone/Visit
Address: 204 Mayfair Lane
Description: Customer reported the water was causing his skin to be sticky/tacky.

Outcome: Customer initially wanted a site visit, then changed his mind and said he would call back to schedule an appointment.

Date: 7/26/2022
Source: Phone
Address: 902 Palmer Park Lane
Description: Customer called to report a sulfur smell coming from one bathroom sink fixture that was not used often.

Outcome: Customer verified that the water from the bathroom sink had no odor. Explained to customer that the sulfur odor was likely the drain off-gassing and that disinfecting the drain would likely resolve the issue.

Payment Listing by Class

7/1/2022 - 7/31/2022

Vendor Name	Check #/Count	Payment Date	Invoice Number	Invoice Description	Payment Amount
CAPITAL					
BUTIER CONSULTING ENGINEERS	000006785	07/14/22	C008MWD	M21-250A1 MAY 2022	\$38,438.50
	000006817	07/21/22	BO23MDW	Receivings Transaction Entry	\$91,826.09
	2				\$130,264.59
FERREIRA COASTAL CONSTRUCTION CO.	000006818	07/21/22	6.1	M18-100	\$5,489.28
		07/21/22	06	M18-100 CHANDLER CRODDY	\$14,758.96
		07/21/22	7	M18-100	\$263,367.60
	1				\$283,615.84
HAMEL CONTRACTING, INC.	0180699	07/21/22	6	M21-250A1 MAY CHARGES	\$381,718.92
	1				\$381,718.92
MURAKAWA COMMUNICATIONS, INC.	000006876	07/28/22	MESA WATER 25	M20-109	\$15,810.00
	1				\$15,810.00
TETRA TECH, INC	000006771	07/07/22	51912935	M18-100 CRODDY CHANDLER	\$7,043.50
		07/14/22	5192821	M21-220C MAINLINE VALVE	\$13,620.00
			51896439	M21-220C MAINLINE VALVE	\$19,955.00
	2				\$40,618.50
Total CAPITAL	7				\$852,027.85
CHECK SIGNATURE EXEMPT					
SOUTHERN CALIFORNIA EDISON CO	000006783	07/14/22	700461094089	JUNE BILLING	\$206,220.81
	1				\$206,220.81
Total CHECK SIGNATURE EXEMPT	1				\$206,220.81
DEPARTMENT EXPENSE					
ACWA JOINT POWERS INSURANCE AUTHORITY	000006782	07/14/22	0008847	FY2023 PROPERTY INSURANCE	\$102,520.35
		07/21/22	082022	AUGUST EAP	\$140.42
	2				\$102,660.77
ARMA INTERNATIONAL	000006892	07/28/22	2250502015	FY23 MEMBERSHIP RENEW - WENDY	\$215.00
	1				\$215.00
CALPERS BENEFIT PAYMENTS	0180702	07/11/22	071122	PPE 6.22.22	\$40,145.43
		ACH	07/11/22	16836718	JULY PREMIUM

Payment Listing by Class

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Vendor Name	Check #/Count	Payment Date	Invoice Number	Invoice Description	Payment Amount
CALPERS BENEFIT PAYMENTS	ACH	07/20/22	072022	PPE 7.6.22	\$40,217.12
		07/01/22	16836734	JULY PA PREMIUM	\$6,778.93
	2				\$146,520.57
COLONIAL LIFE & ACCIDENT INS	000006870	07/28/22	88923330713606	INS PREMIUM PPE 7/1/22	\$184.49
		07/28/22	88923330727327	INS PREMIUM JULY 14	\$184.49
	1				\$368.98
COSTA MESA CHAMBER OF COMMERCE	000006894	07/29/22	15598	2022 LES MILLER SCHOLARSHIP	\$500.00
		1			\$500.00
GUARDIAN	000006760	07/07/22	00430941	JULY DENTAL INSUARNCE	\$5,868.99
		000006873	07/28/22	00 430941 AUG 22	AUGUST PREMIUM
	2				\$11,684.72
INTERNAL REVENUE SERVICE	000006762	07/07/22	720-V 2022 RHS	PCORI FEE RHS 2021	\$27.90
		07/07/22	720-V 2022	PCORI FEE FSA 2021	\$66.96
	1				\$94.86
ORANGE COUNTY EMPLOYEES ASSN	000006877	07/28/22	07062022	PAY DATE 7/6/22	\$285.36
		07/28/22	72022	CHECK DATE 7/20/22	\$285.36
	1				\$570.72
RED WING BUSINESS ADVANTAGE ACCT	000006781	07/07/22	20220623009986	SAFETY BOOTS-HOPKINS,SULLIVAN	\$327.86
	000006802	07/14/22	855-1-15527	SAFETY BOOTS	\$200.00
		07/14/22	855-1-15503	SAFETY BOOTS	\$200.00
	000006843	07/21/22	20220707009986	SAFETY BOOTS	\$200.00
3				\$927.86	
TASC	000006846	07/21/22	IN2439023	FSA ADMIN FEES JUNE 22	\$137.31
		1			\$137.31
VISTA DEL VERDE LANDSCAPE	000006851	07/21/22	36731	MAINTENANCE SVC	\$2,743.79
		1			\$2,743.79
Total DEPARTMENT EXPENSE	16				\$266,424.58
GENERAL AND ADMINISTRATIVE					
360 BC GROUP INC.	000006868	07/28/22	30312	WEB SITE MAINTENANCE	\$2,000.00

Payment Listing by Class

7/1/2022 - 7/31/2022

Vendor Name	Check #/Count	Payment Date	Invoice Number	Invoice Description	Payment Amount
	1				\$2,000.00
ACCO ENGINEERED SYSTEMS, INC.	000006857	07/21/22	20281310	REPAIRS	\$282.00
	1				\$282.00
ALAN'S LAWNMOWER & GARDEN CENTER	000006743	07/07/22	1101195	HUSQVARNA FUEL	\$259.71
	1				\$259.71
APOLLO PRINTING & GRAPHICS	000006745	07/07/22	275455	BUSINESS CARDS	\$43.10
	1				\$43.10
AT&T MOBILITY	000006865	07/28/22	287306005081X71522	287306005081JULY22	\$239.05
	1				\$239.05
ATKINSON, ANDELSON, LOYA, RUUD & ROMO	000006866	07/28/22	655625	LEGAL SERVICES JUNE 2022	\$15,931.14
	1				\$15,931.14
ATMAA, INC.	000006867	07/28/22	38450	LAB ANALYSIS	\$275.00
	1				\$275.00
BEN'S ASPHALT	000006826	07/21/22	19643	M22-003 ON CALL	\$32,384.00
	1				\$32,384.00
BRENDA DEELEY PR LLC	000006779	07/07/22	1428	CONSULTING JUNE 2022	\$13,150.00
	1				\$13,150.00
BROWN & CALDWELL	000006737	07/07/22	12446003	M21-210B2 RESERVOIR UPGRADES	\$147,903.75
	1				\$147,903.75
CANON FINANCIAL SERVICES, INC.	000006747	07/07/22	28730891	PRINTER EQUIPMENT LEASE	\$2,000.93
	1				\$2,000.93
CANON SOLUTIONS AMERICA, INC	000006827	07/21/22	589047	MAINTENANCE	\$3,323.98
	1				\$3,323.98
CCS ORANGE COUNTY JANITORIAL INC.	000006814	07/14/22	560105	JULY SERVICES	\$4,091.02
	1				\$4,091.02
CHARLES L. SWEAZY	000006792	07/14/22	26789	BACKFLOW REPAIR	\$6,110.00
	1				\$6,110.00
COASTAL OCCUPATIONAL MEDICAL GROUP DBA AKESO OCCUPATIONAL HEALTH	000006823	07/21/22	330234	MEDICAL SERVICES	\$220.00
	1				\$220.00

Payment Listing by Class

7/1/2022 - 7/31/2022

Vendor Name	Check #/Count	Payment Date	Invoice Number	Invoice Description	Payment Amount
COMPONETICS	000006786	07/14/22	1795	REPAIR MIXER HITCH	\$1,100.23
	1				\$1,100.23
COSTA MESA COLLISION AND AUTO PAINTING	000006828	07/21/22	3411	REPAIRS	\$2,843.42
	1				\$2,843.42
COSTA MESA FOUNDATION	000006829	07/21/22	062022	SPONSORSHIP	\$2,500.00
	1				\$2,500.00
DIETZ HYDROSEEDING COMPANY	000006778	07/07/22	CHEQ00099008 009	20078700 Cheque Deposits 20078	\$1,069.11
	1				\$1,069.11
DYLAN RHEA	000006813	07/14/22	CHEQ00099008 016	30001191 Cheque Deposits 30001	\$4.72
	1				\$4.72
ELAN ONE	ACH	07/01/22	070122	JUNE CHARGES	\$9,236.83
	1				\$9,236.83
ELEMENT FIRE AND SAFETY	000006871	07/28/22	27358	SAFETY SUPPLIES	\$2,984.75
	1				\$2,984.75
EMPOWER	000006752	07/07/22	348201	401A PLAN EXPENSE 3/19-6/15	\$460.44
		07/07/22	348106	457 PLAN EXPENSE 3/19-6/15	\$6,069.48
	ACH	07/11/22	71122 401A	PPE 7.6.22 401A	\$1,028.96
		07/11/22	PPE 7.06.22 MATCH	PPE 7.06.22 MATCH	\$7,506.33
		07/20/22	72022 401A	PPE 7.20.22 401A	\$1,028.96
		07/11/22	070622	PPE 7.6.22 457	\$18,512.32
		07/20/22	72022 457	PPE 7.20.22 457	\$20,577.90
	2				\$55,184.39
ENERGY ENVIRONMENTAL SOLUTIONS, INC.	000006832	07/21/22	EES-2022- MWDR24	TESTING FOR 6 -- 9 2022	\$12,000.00
	1				\$12,000.00
FRONTIER COMMUNICATIONS	000006872	07/28/22	17945JULY22	DDS LINE 7/13 -8/15	\$119.45
	1				\$119.45
FULL CIRCLE RECYCLING	000006789	07/14/22	27836	RECYCLING SERVICE	\$133.50
	1				\$133.50
GEIGER	000006757	07/07/22	4782217	MWD PROMO ITEMS	\$26,889.39
	1				\$26,889.39
GERARD SIGNS & GRAPHICS INC	000006758	07/07/22	30138	MWD PROMO ITEMS	\$7,086.50

Payment Listing by Class

7/1/2022 - 7/31/2022

Vendor Name	Check #/Count	Payment Date	Invoice Number	Invoice Description	Payment Amount
	1				\$7,086.50
HORIZON CONSTRUCTION, INC.	000006741	07/07/22	CHEQ00099008 013	20078000 Cheque Deposits 20078	\$1,250.37
	1				\$1,250.37
JOHN ROBINSON CONSULTING, INC.	000006791	07/14/22	MW201901-39	CONSULTING SERVICES	\$12,075.00
	1				\$12,075.00
JORGE SANCHEZ	000006861	07/21/22	CHEQ00099008 020	05150031 Cheque Deposits 05150	\$108.56
	1				\$108.56
JUSTIN L. SAEGUSA	000006763	07/07/22	0381	WATER QUALITY POSTCARD	\$1,000.00
	1				\$1,000.00
KAMALA CONNORS	000006891	07/28/22	CHEQ00099008 022	03124100 Cheque Deposits 03124	\$118.32
	1				\$118.32
KLEEN KRAFT SERVICES	000006837	07/21/22	1108414	UNIFORMS, MATS, TOWELS	\$239.32
		07/21/22	1109729	UNIFORMS, MATS, TOWELS	\$238.07
		07/21/22	1109072	UNIFORMS, MATS, TOWELS	\$238.07
	1				\$715.46
LA CONSULTING INC	000006764	07/07/22	0015392	M21-104 MAINT STAR UPGRADE	\$6,803.20
	000006874	07/28/22	0015399	CONSULTING SUPPORT	\$508.00
	2				\$7,311.20
LADA WEBSTER	000006812	07/14/22	CHEQ00099008 015	30000512 Cheque Deposits 30000	\$86.33
	1				\$86.33
LIEBERT CASSIDY WHITMORE	000006839	07/21/22	220079	LEGAL CONSULTING	\$1,418.00
		07/28/22	221896	LEGAL CONSULTING	\$222.00
			221895	LEGAL CONSULTING	\$1,797.00
	2				\$3,437.00
LIFECOM, INC.	000006793	07/14/22	2096832-IN	SERVICE CALIBRATE RKI EAGLE	\$65.00
		07/14/22	2096831-IN	SERVICE CALIBRATE RKI EAGLE	\$65.00
		07/14/22	2096830-IN	SERVICE CALIBRATE RKI EAGLE	\$65.00

Payment Listing by Class

7/1/2022 - 7/31/2022

Vendor Name	Check #/Count	Payment Date	Invoice Number	Invoice Description	Payment Amount
	1				\$195.00
MARISSA MC GARRY	000006740	07/07/22	CHEQ00099008 010	08404800 Cheque Deposits 08404	\$202.22
	1				\$202.22
MARY VANDERVORT	000006860	07/21/22	CHEQ00099008 019	01906500 Overpayment	\$1,723.00
	1				\$1,723.00
MCFADDEN-DALE INDUSTRIAL HARDWARE, LLC	000006794	07/14/22	34078/3	WATER OPS SUPPLIES	\$33.59
	1				\$33.59
MICHELLE K WILLIAMS	000006859	07/21/22	CHEQ00099008 018	09011400 Overpayment	\$2,764.73
	1				\$2,764.73
MORAN CONSULTING, INC.	000006795	07/14/22	3889	CONSULTING SERVICES	\$14,750.00
	000006875	07/28/22	3908	QUARTERLY AUDIT APRIL - JUNE	\$4,750.00
	2				\$19,500.00
MOUNTAIN COUNTIES WATER RESOURCES ASSOCIATION	000006766	07/07/22	1279	FY23 MEMBERSHIP RENEWAL	\$550.00
	1				\$550.00
NATEC INTERNATIONAL INC.	000006796	07/14/22	208363	SAFETY TRAINING	\$1,150.00
	1				\$1,150.00
OSTS INC	000006840	07/21/22	57545	CPR/FIRST AID	\$1,020.00
		07/21/22	57443	CPR/FIRST AID	\$3,897.00
	1				\$4,917.00
PETE'S ROAD SERVICE	000006768	07/07/22	594984-00	FLEET MAINTENANCE	\$278.92
	000006799	07/14/22	596136-00	FLEET MAINTENANCE	\$434.85
	2				\$713.77
PODS ENTERPRISES, LLC.	000006841	07/21/22	PODS001411064	M21-250A1 - RENTAL	\$418.07
	1				\$418.07
PRECISION DIESEL	000006800	07/14/22	059354	SERVICE CALL	\$844.59
	1				\$844.59
RAYNE WATER SYSTEMS	000006801	07/14/22	6557	SOFT WATER SVC	\$44.50
	1				\$44.50
SAMANTHA OROZCO	000006858	07/21/22	CHEQ00099008 017	09703601 Overpayment	\$1,015.17

Payment Listing by Class

7/1/2022 - 7/31/2022

Vendor Name	Check #/Count	Payment Date	Invoice Number	Invoice Description	Payment Amount
	1				\$1,015.17
SANCON TECHNOLOGIES, INC.	000006777	07/07/22	CHEQ00099008 012	20075200 Cheque Deposits 20075	\$1,267.00
	1				\$1,267.00
SIGNET MARK DEVICES	000006811	07/14/22	CHEQ00099008 014	04704500 Cheque Deposits 04704	\$139.28
	1				\$139.28
STAFFING SOLUTIONS	000006845	07/21/22	37257	TEMP LABOR WK 7/10	\$1,238.72
		07/21/22	37133	TEMP WK END 6/26/22	\$1,548.40
		07/21/22	37225	TEMP LABOR WK END 7/3	\$1,161.30
	1				\$3,948.42
T.E. ROBERTS, INC.	000006820	07/21/22	04	M21-220B	\$189,316.64
	1				\$189,316.64
T2 TECHNOLOGY GROUP, LLC	000006862	07/28/22	00307617	CONSULTING	\$1,266.00
		07/28/22	00307615	IT OPS SUPPORT	\$39,415.00
		07/28/22	00307616	CONSULTING	\$28,149.00
	1				\$68,830.00
THE ORANGE COUNTY FAIR	000006878	07/28/22	INV-12117	SPONSORSHIP	\$10,500.00
	1				\$10,500.00
THEODORE ROBINS FORD	000006772	07/07/22	C69789	FLEET MAINTANANCE	\$95.00
	000006847	07/21/22	C59415	UNIT 54 ENGINE REBUILD	\$35,499.28
	2				\$35,594.28
TIME WARNER CABLE	000006848	07/21/22	0012934070322	INTERNET - DISTRICT	\$340.26
		07/21/22	1774795070622	8448 40 087 1774795 JULY	\$107.98
	1				\$448.24
U.S. BANK PARS ACCOUNT #6746019200	WIRE	07/28/22	072822	ANNUAL CONTRIBUTION	\$110,000.00
	1				\$110,000.00
ULINE	000006774	07/07/22	150266736	SHIPPING	\$183.37
		07/07/22	149652224	WHITE MAILERS & CRINKLE PAPER	\$329.85
		07/07/22	149847335	WHITE MAILERS & CRINKLE PAPER	\$6,719.18
	000006849	07/21/22	150538810	SUPPLIES	\$271.85

Payment Listing by Class

7/1/2022 - 7/31/2022

Vendor Name	Check #/Count	Payment Date	Invoice Number	Invoice Description	Payment Amount
	2				\$7,504.25
UNITED PAVING COMPANY	000006890	07/28/22	CHEQ00099008 021	20071700 Cheque Deposits 20071	\$943.15
	1				\$943.15
USC FOUNDATION FOR CROSS CONNECTION	000006884	07/28/22	19316	FY23 MEMBERSHIP RENEWAL	\$1,000.00
	1				\$1,000.00
VARIABLE SPEED SOLUTIONS, INC	000006806	07/14/22	0000022388	MAINTENANCE	\$580.00
	1				\$580.00
VENTURE: EXECUTIVE SEARCH TEAM, LLC	000006784	07/14/22	220228PCTP	CONSULTING	\$8,812.50
		07/14/22	220430PCTP	CONSULTING	\$7,500.00
		07/14/22	220331PCTP	CONSULTING	\$6,750.00
		07/14/22	220131PCTP	CONSULTING	\$20,625.00
	000006885	07/28/22	210831F	CONSULTING	\$6,250.00
		07/28/22	220331F	CONSULTING	\$375.00
		07/28/22	210930F	CONSULTING	\$4,125.00
		07/28/22	211130F	CONSULTING	\$4,000.00
		07/28/22	210731F	CONSULTING	\$3,375.00
		07/28/22	211031F	CONSULTING	\$3,000.00
		07/28/22	211231F	CONSULTING	\$1,250.00
	07/28/22	220630F	CONSULTING	\$8,625.00	
		2			
VERIZON WIRELESS	000006886	07/28/22	9911321812	JUNE 17 -JULY 16	\$3,835.96
		07/28/22	990391978	842498902JULY22	\$253.59
	1				\$4,089.55
WATER SYSTEMS CONSULTING, INC.	000006853	07/21/22	6926	M21-220A WILSON PIPELINE R.	\$7,717.50
	1				\$7,717.50
WE SAVE BEES	000006856	07/21/22	10575	BEE REMOVAL	\$225.00
		07/21/22	10576	BEE REMOVAL	\$225.00
		07/21/22	10619	BEE REMOVAL	\$225.00
		07/21/22	10577	BEE REMOVAL	\$95.00
	1				\$770.00
WEST PROPERTIES DEV CO	000006739	07/07/22	CHEQ00099008 011	20069800 Overpayment	\$1,162.59
	1				\$1,162.59

Payment Listing by Class

7/1/2022 - 7/31/2022

Vendor Name	Check #/Count	Payment Date	Invoice Number	Invoice Description	Payment Amount
WESTERN EXTERMINATOR COMPANY	000006776	07/07/22	24644308	PEST CONTROL GISLER	\$101.00
	000006808	07/14/22	24644307	PEST CONTROL	\$100.75
	2				\$201.75
WILLIAMS SCOTSMAN INC.	000006809	07/14/22	9014464663	M21-250A1 RENTAL	\$3,587.75
	1				\$3,587.75
WOLF CONSULTING, INC.	000006888	07/28/22	INV-000211	MAINSTAR SUPPORT SERVICE	\$5,100.00
	1				\$5,100.00
ZAYO GROUP HOLDINGS, INC. DBA ZAYO GROUP LLC	000006810	07/14/22	2022070035347	M21-120A	\$2,231.56
	1				\$2,231.56
ZONES INC	000006889	07/28/22	K19477030101	4 LENOVO -NB WS	\$8,336.19
		07/28/22	K19477030102	3 LENOVO NB WS	\$6,252.15
		07/28/22	K19477030103	3 YR PROTECTION PLAN LENOVO	\$826.70
		07/28/22	K19544180101	VMWARE AIRWATCH	\$22,196.00
	1				\$37,611.04
Total GENERAL AND ADMINISTRATIVE	82				\$976,770.35
RETIREE CHECKS					
ALAN COOK	000006742	07/07/22	202207	MONTHLY SUBSIDY	\$88.63
	1				\$88.63
ART HERNANDEZ	000006746	07/07/22	202207	MONTHLY SUBSIDY	\$173.08
	1				\$173.08
COLEEN L MONTELEONE	000006750	07/07/22	202207	MONTHLY SUBSIDY	\$235.00
	1				\$235.00
DIANA LEACH	000006751	07/07/22	20220701	MONTHLY SUBSIDY	\$271.06
	1				\$271.06
LORI MULLER	000006765	07/07/22	20220701	MONTHLY SUBSIDY	\$88.83
	1				\$88.83
Total RETIREE CHECKS	5				\$856.60
UNASSIGNED VENDORS					
EAGLE COMMUNICATIONS	000006787	07/14/22	723311	TWO WAY RADIO INSTALL	\$2,211.21
	1				\$2,211.21
Total UNASSIGNED VENDORS	1				\$2,211.21

Payment Listing by Class

7/1/2022 - 7/31/2022

Vendor Name	Check #/Count	Payment Date	Invoice Number	Invoice Description	Payment Amount
VARIOUS					
AC POZOS ELECTRIC CORPORATION	000006821	07/21/22	ACP2022-1138	Receivings Transaction Entry	\$500.00
	1				\$500.00
AMAZON BUSINESS	000006744	07/07/22	1Y37-DXL4-LRM1	OFFICE SUPPLIES	\$192.70
		07/07/22	1Y9X-JL1P-3FMY	OFFICE SUPPLIES	\$24.77
		07/07/22	1MYJ-JXTQ-9HJ4	OFFICE SUPPLIES	\$98.08
		07/07/22	11YH-WL1W-TVKX	OFFICE SUPPLIES	\$7.96
		07/07/22	11YH-WL1W-RVDJ	OFFICE SUPPLIES	\$20.77
		07/07/22	1CCL-DQGV-TY1C	OFFICE SUPPLIES	\$18.83
	000006863	07/28/22	1GTT-NKX4-L3HJ	OFFICE SUPPLIES	\$14.80
		07/28/22	1YRG-311M-KD6W	OFFICE SUPPLIES	\$8.61
		07/28/22	134V-Y6FM-M3FQ	OFFICE SUPPLIES	\$9.69
		07/28/22	1M99-J9YN-KYVG	OFFICE SUPPLIES	\$31.18
		07/28/22	197W-1CVG-W1RX	OFFICE SUPPLIES	\$181.56
		07/28/22	1NXH-VX79-HMHP	OFFICE SUPPLIES	\$32.02
		07/28/22	19W1-TYMF-MWV7	OFFICE SUPPLIES	\$43.90
		07/28/22	1Y7P-4K7W-HHCH	OFFICE SUPPLIES	\$68.47
		07/28/22	1V6Y-MWKP-H1JH	OFFICE SUPPLIES	\$119.80
		07/28/22	11NM-LC66-6PJL	OFFICE SUPPLIES	\$220.57
		07/28/22	1YVM-QJLK-GFWF	OFFICE SUPPLIES	\$75.45
		07/28/22	1QMP-GYT6-TK4P	OFFICE SUPPLIES	\$21.95
		07/28/22	1CGF-JMWN-C1YD	OFFICE SUPPLIES	\$38.78
		07/28/22	16LL-RFHF-GH3X	OFFICE SUPPLIES	\$73.00
		07/28/22	1PVF-6NP6-JTCQ	OFFICE SUPPLIES	\$132.99

Payment Listing by Class

7/1/2022 - 7/31/2022

Vendor Name	Check #/Count	Payment Date	Invoice Number	Invoice Description	Payment Amount
	2				\$1,435.88
ASHLEY KAY ART	000006824	07/21/22	2022-36	ARTWORK	\$2,600.00
		07/21/22	2022-35	ARTWORK	\$1,775.00
	1				\$4,375.00
AT&T	000006825	07/21/22	000018422564	ACCT 9391055284	\$4,074.58
		07/21/22	000018423422	ACCT 9391061444	\$324.28
	000006864	07/28/22	0779JULY2022	339.263.0779 JULY 2022	\$1,639.37
		07/28/22	287295684390X0716202	287295684390 JULY 2022	\$431.80
	2				\$6,470.03
CALIFORNIA ASSOCIATION OF MUTUAL WATER COMPANIES	000006869	07/28/22	111	2022-2023 SPONSORSHIP	\$10,000.00
	1				\$10,000.00
CASE COMMUNICATIONS	000006748	07/07/22	PO016753JUNE	SPONSORSHIP KOCI RADIO	\$1,500.00
	1				\$1,500.00
ELITE EQUIPMENT	000006830	07/21/22	45672	AS NEEDED REPAIRS	\$2,045.06
	1				\$2,045.06
EMISSION COMPLIANT CONTROLS CORP	000006831	07/21/22	PS05442	Receivings Transaction Entry	\$4,678.88
	1				\$4,678.88
FEDERAL EXPRESS CORPORATION	000006755	07/07/22	7-804-64736	SHIPPING	\$364.21
	1				\$364.21
GCI CONSTRUCTION, INC.	000006756	07/07/22	1003	M22-003 REMOVE RECOAT PIPE	\$22,000.00
	1				\$22,000.00
GENERAL PUMP COMPANY	000006834	07/21/22	29382-2	PUMP REPAIR	\$2,100.00
	1				\$2,100.00
GRAINGER	000006759	07/07/22	9351092177	HIP WADER	\$573.85
		07/07/22	9356383522	SAFETY TOOLS & EQUIPMENT	\$394.71
		07/07/22	9351057345	LIFT TRUCK REFLECTORS	\$32.07
	000006835	07/21/22	9377126421	SAFETY TOOLS AND EQUIPMENT	\$399.88
		07/21/22	9343153368	SAFETY TOOLS AND EQUIPMENT	\$209.47
		07/21/22	9376892163	SAFETY TOOLS AND EQUIPMENT	\$530.72

Payment Listing by Class

7/1/2022 - 7/31/2022

Vendor Name	Check #/Count	Payment Date	Invoice Number	Invoice Description	Payment Amount
GRAINGER	000006835	07/21/22	934345436	SAFETY TOOLS AND EQUIPMENT	\$314.20
	2				\$2,454.90
LEWIS CONSULTING GROUP	000006895	07/29/22	2022-112	CONSULTING SVC JUNE 2022	\$5,000.00
	1				\$5,000.00
MEYERS NAVE, A PROFESSIONAL CORPORATION	000006738	07/07/22	191942	FEE SHARE THROUGH MARCH 31	\$61,189.56
	000006815	07/15/22	19265	CONSULTING THROUGH APRIL 30	\$38,497.01
	000006819	07/21/22	191249	FEE SHARE	\$56,712.99
	3				\$156,399.56
SOUTHERN CALIFORNIA GAS CO	000006803	07/14/22	05060829008622	WELL 5 JUN BILLING	\$30,454.75
	000006879	07/28/22	089040813002JULY22	1971 PLACENTIA AVE	\$1,816.10
		07/28/22	08520813000JULY2022	1965 PLACENTIA AVE	\$81.75
		07/28/22	052000799004JULY22	2340 ORANGE AVE RES 2	\$4,442.04
	2				\$36,794.64
SPRYPOINT SERVICES INC	000006769	07/07/22	1101	SUPPORT SERVICES	\$1,150.00
	000006844	07/21/22	INV-1039	CONSULTING SERVICES	\$38.43
	2				\$1,188.43
THE HOME DEPOT COMMERCIAL ACCT	000006836	07/21/22	25149 JUNE	SUPPLIES	\$3,523.02
	1				\$3,523.02
TRUSSELL TECHNOLOGIES INC	000006773	07/07/22	0000008492	SVC APRIL - MAY 2022	\$7,777.50
	1				\$7,777.50
VONAGE HOLDINGS CORPORATION	000006887	07/28/22	2182338	JUNE 2022	\$10,778.02
	1				\$10,778.02
WCT PRODUCTS, INC	000006854	07/21/22	W13446	OPS SUPPLIES	\$200.83
	1				\$200.83
WECK ANALYTICAL ENVIRONMENTAL SERVICES INC.	000006855	07/21/22	70941	LABORATORY ANALYSIS	\$3,562.00
	1				\$3,562.00
Total VARIOUS	28				\$283,147.96
WATER SUPPLY					

Payment Listing by Class

7/1/2022 - 7/31/2022

Vendor Name	Check #/Count	Payment Date	Invoice Number	Invoice Description	Payment Amount	
HILL BROTHERS CHEMICAL CO.	000006761	07/07/22	07136464	AQUA AMMONIA	\$6,000.00	
		07/07/22	07134913	AQUA AMMONIA	\$3,010.00	
	1				\$9,010.00	
LINDE INC.	000006842	07/21/22	10976187	CARBON DIOXIDE	\$4,511.49	
		07/21/22	10995606	CARBON DIOXIDE	\$4,757.47	
		07/21/22	10776143	CARBON DIOXIDE	\$4,691.27	
		07/21/22	11395815	CARBON DIOXIDE	\$4,684.92	
		07/21/22	10923884	CARBON DIOXIDE	\$4,844.23	
1				\$23,489.38		
MUNICIPAL WATER DISTRICT OF OC	WIRE	07/21/22	2639	MAY 1 - MAY 31 SMART TIMER	\$716.00	
1				\$716.00		
OCWD	WIRE	07/21/22	24433	JUNE 2022 GAP WATER	\$120,853.70	
1				\$120,853.70		
PACIFIC STAR CHEMICAL DBA NORTHSTAR CHEMICAL	000006780	07/07/22	226644	SODIUM HYDROXIDE	\$2,266.00	
		07/07/22	226640	SODIUM HYPOCHLORITE	\$2,261.90	
		07/07/22	226091	SODIUM HYPOCHLORITE	\$4,976.18	
		07/07/22	226642	SODIUM HYPOCHLORITE	\$961.42	
		07/07/22	226643	SODIUM HYPOCHLORITE	\$1,938.77	
		07/07/22	226641	SODIUM HYPOCHLORITE	\$1,163.26	
	000006797	07/14/22	227230	SODIUM HYDROXIDE	\$1,774.32	
		07/14/22	227232	SODIUM HYPOCHLORITE	\$219.73	
		07/14/22	227233	SODIUM HYPOCHLORITE	\$3,799.99	
		07/14/22	227234	SODIUM BISULFITE	\$2,173.75	
	2				\$21,535.32	
	SEPARATION PROCESSES, INC	000006880	07/28/22	10508	ON CALL SUPPORT	\$5,467.50
	1				\$5,467.50	
UNITED WATERWORKS INC.	000006775	07/07/22	S100107195.002	SUPPLIES	\$2,284.27	
		07/07/22	S100106175.002	Receivings Transaction Entry	\$1,325.44	
		07/07/22	S100110205.001	SUPPLIES	\$34.28	

Payment Listing by Class

7/1/2022 - 7/31/2022

Vendor Name	Check #/Count	Payment Date	Invoice Number	Invoice Description	Payment Amount
UNITED WATERWORKS INC.	000006775	07/07/22	S100108479.002	SUPPLIES	\$407.82
	000006805	07/14/22	S100109491-001	WATER OPS SUPPLIES	\$330.48
		07/14/22	S100110002.002	WATER OPS SUPPLIES	\$3,544.83
		07/14/22	S100110525.001	WATER OPS SUPPLIES	\$6,145.73
	000006850	07/21/22	S100107987.003	SUPPLIES	\$632.33
	3				\$14,705.18
Total WATER SUPPLY	9				\$195,777.08
WATER SYSTEM					
ALS TRUESDAIL LABORATORIES INC	000006882	07/28/22	522202518	WATER QUALITY TESTING	\$22.00
	1				\$22.00
BADGER METER INC.	000006816	07/21/22	1510497	METERS	\$7,515.57
		07/21/22	1513965	METERS	\$105,336.40
		07/21/22	80102100	CELLULAR LTE SERVICE UNIT	\$254.54
	1				\$113,106.51
CHARLES P CROWLEY	000006749	07/07/22	29520	WATER OPS PARTS	\$169.76
	1				\$169.76
EWLES MATERIALS INC	000006753	07/07/22	442322	BOBTAIL DUMP FEES	\$540.00
	1				\$540.00
EXPRESS PIPE & SUPPLY CO. INC	000006754	07/07/22	S113238034.001	SUPPLIES	\$567.56
	000006788	07/14/22	S113262346.001	PIPE SUPPLIES	\$10.58
	000006833	07/21/22	S113331785.001	SUPPLIES	\$311.05
	3				\$889.19
IRVINE PIPE & SUPPLY	000006790	07/14/22	1046848	SUPPLIES	\$541.08
	1				\$541.08
LARRY'S BUILDING MATERIALS	000006838	07/21/22	SA-12695	M21-001FH SUPPLIES	\$247.28
	1				\$247.28
OMAR & SON'S TRUCKING	000006798	07/14/22	7317	DIRT HAULING	\$2,000.00
	1				\$2,000.00
ORANGE COUNTY SANITATION DISTRICT	000006767	07/07/22	541875	ESTIMATED CHG APRIL-JUNE 22	\$21,972.95
	1				\$21,972.95
STATE WATER RESOURCES CONTROL BOARD	000006770	07/07/22	62922	T4 CERTIFICATION	\$105.00

Payment Listing by Class

7/1/2022 - 7/31/2022

Vendor Name	Check #/Count	Payment Date	Invoice Number	Invoice Description	Payment Amount
STATE WATER RESOURCES CONTROL BOARD	000006881	07/28/22	07242022	D5 - CERTIFICATION - TM	\$105.00
	2				\$210.00
UNDERGROUND SERVICE ALERT/SC	000006883	07/28/22	DSB20211680	STATE REGULATORY FEE	\$212.88
	1				\$212.88
VULCAN MATERIALS	000006807	07/14/22	73329949	MATERIALS	\$220.85
		07/14/22	73328001	MATERIALS	\$365.80
	000006852	07/21/22	73321265	M21-001 MV PAVING MATERIALS	\$222.78
	2				\$809.43
Total WATER SYSTEM	16				\$140,721.08
Total Payments (All)	163				\$2,924,157.52



*Dedicated to
Satisfying our Community's
Water Needs*

MEMORANDUM

TO: Board of Directors
FROM: Marwan Khalifa, CPA, MBA, Chief Financial Officer
DATE: August 23, 2022
SUBJECT: Monthly Financial Reports

RECOMMENDATION

Receive and file the Monthly Financial Reports.

STRATEGIC PLAN

Goal #3: Be financially responsible and transparent.

PRIOR BOARD ACTION/DISCUSSION

None.

DISCUSSION

The attached Treasurer's status reports reflect the performance of Mesa Water's cash and investment accounts.

FINANCIAL IMPACT

None.

ATTACHMENTS

Attachment A: Monthly Treasurer's Status Report on Investments as of 7/31/22
Attachment B: Monthly Treasurer's Status Report on Investments as of 6/30/22

Mesa Water District
Monthly Treasurer's Status Report on Investments
7/31/2022



Investments are in compliance with the Investment Policy adopted as Resolution 1506 of the Mesa Water District Board of Directors. The liquidity of investments will meet cash flow needs for the next six months except under unforeseen catastrophic circumstances.

INVESTMENTS	Maturity Date	Days to Maturity	YTM@Cost	Cost Value	% of Portfolio	Policy % Limit	Market Value
Local Agency Investment Fund (LAIF)	Liquid	1	1.09%	1,087.59	0.00%	No Limit	1,087.59
Orange County Investment Pool (OCIP) *	Liquid	1	0.74%	830,477.90	2.21%	No Limit	830,477.90
Miscellaneous Cash (Petty, Emergency, etc.)	Liquid	1	0.00%	14,000.00	0.04%	N/A	14,000.00
US Bank Custody Account							
Negotiable Certificate of Deposit	Various	809	1.31%	9,929,000.00	25.18%	30.00%	9,472,266.07
US Agency Bonds	Various	906	0.97%	16,097,390.79	40.57%	No Limit	15,265,172.50
US Treasury Bonds	Various	857	0.67%	2,685,104.80	6.80%	No Limit	2,558,433.00
Sub Total / Average		868	1.06%	28,711,495.59			27,295,871.57
US Bank Custody Account							
Pacific Premier Bank	Liquid	1	1.56%	1,816,257.34	4.83%	No Limit	1,816,257.34
	Liquid	1	1.25%	7,661,878.24	20.37%	No Limit	7,661,878.24
Total / Average		630	1.12%	\$ 39,035,196.66	100.00%		\$ 37,619,572.64

PARS OPEB & PENSION TRUS	Monthly Rate of Return	Cost Value	Market Value
Public Agency Retirement Services (PARS)			
Capital Appreciation HighMark PLUS Fund			
OPEB	6.07%	\$ 2,004,236.22	\$ 2,058,856.59
Pension Trust	6.09%	\$ 13,353,052.47	\$ 13,987,011.79
		\$ 15,357,288.69	\$ 16,045,868.38

PARS OPEB & Pension Trust Benchmark - S & P 500 Index
 1 Month | 0.01 %

RISK RETENTION CORPORATION	Monthly Rate of Return	Balance
Pacific Premier Bank	N/A	\$ 2,872,242.54

California | Local Government Investment Pools

(1) Local Agency Investment Fund | LAIF includes funds designated for allocation of working capital cash to reserves, working capital cash and advances for construction. LAIF market value on Monthly Treasurer's Status Report on Investments for months between quarters is the dollar amount invested times the fair market value Fair Value factor of prior quarter end. The general ledger LAIF carrying value reflects market value (unrealized gains and losses) only at fiscal year end. LAIF provides the Fair Value factor as of March 31, June 30, September 30 and December 31 each year. LAIF market value on this report is based on the March 2022 Fair Value Factor of 0.988753538.

(2) Orange County Treasurer's Investment Pool | OCIP - The 2022 Net Asset Value Factor is estimated at 1.00, and the interest rate is the Monthly Net Yield.

Weighted Average Return

Mesa Water® Funds | 1.117%
 Benchmark: 3 Month Treasury Bill - July 2022 | 2.30 %

Weighted Average Maturity

Years | 1.70 Days | 630

Mesa Water District
 Transactions Summary
 Monthly Treasurer's Status Report - Investment Activity
 Group By: Action
 Portfolio / Report Group: Report Group | Treasurer's Report
 Begin Date: 06/30/2022, End Date: 07/31/2022

Description	CUSIP/Ticker	YTM @ Cost	Settlement Date	Maturity Date	Face Amount/Shares	Principal	Interest/Dividends	Total
Buy								
Discover Bank3.4 7/6/2027	254673L38	3.400	7/6/2022	7/6/2027	245,000.00	245,000.00	0.00	245,000.00
Sub Total / Average Buy					245,000.00	245,000.00	0.00	245,000.00

Mesa Water District
Date To Date
Interest | Received - Monthly
Report Format: By Transaction
Group By: Asset Category
Portfolio / Report Group: Report Group | Treasurer's Report
Begin Date: 6/30/2022, End Date: 7/31/2022

Description	CUSIP/Ticker	Settlement Date	Maturity Date	Coupon Rate	Ending Face Amount/Shares	Interest/Dividends	Sell Accrued Interest
01. LAIF Policy - No Limit							
LAIF LGIP	LGIP0012	6/30/2010	N/A	N/A	1,087.59	2.03	0.00
Sub Total/Average 01. LAIF Policy - No Limit					1,087.59	2.03	0.00
02. Orange County LGIP - OCIP Policy - No Limit							
Orange County Investment Pool LGIP	LGIP9LC	9/30/2011	N/A	N/A	830,477.90	359.16	0.00
Sub Total/Average 02. Orange County LGIP - OCIP Policy - No Limit					830,477.90	359.16	0.00
03. Miscellaneous Cash (Petty Emergency)							
Miscellaneous Cash	CASH	6/30/2015	N/A	N/A	14,000.00	0.00	0.00
Sub Total/Average 03. Miscellaneous Cash (Petty Emergency)					14,000.00	0.00	0.00
04. Negotiable CD30%							
Goldman Sachs NY 3.3 1/16/2024	38148P4E4	1/16/2019	1/16/2024	3.300	245,000.00	4,009.27	0.00
Merrick Bank UT 3 7/31/2023	59013J6G9	1/30/2019	7/31/2023	3.000	249,000.00	613.97	0.00
Morgan Stanley UT 3.05 1/31/2024	61690UDV9	1/31/2019	1/31/2024	3.050	246,000.00	3,720.67	0.00
Morgan Stanley NY 3.05 1/31/2024	61760AVF3	1/31/2019	1/31/2024	3.050	246,000.00	3,720.67	0.00
Capital One VA 2.65 5/22/2024	14042RLP4	5/22/2019	5/22/2024	2.650	246,000.00	0.00	0.00
Eaglebank MD 2.5 5/24/2024	27002YEN2	5/24/2019	5/24/2024	2.500	249,000.00	511.64	0.00
Sallie Mae Bank UT 1.9 10/16/2024	7954504P7	10/17/2019	10/16/2024	1.900	247,000.00	0.00	0.00
Celtic Bank UT 1.65 10/23/2024	15118RSV0	10/23/2019	10/23/2024	1.650	249,000.00	337.68	0.00
Ally Bank UT 1.85 10/24/2022	02007GML4	10/24/2019	10/24/2022	1.850	247,000.00	0.00	0.00
Enterprise Bank & Trust 1.75 11/8/2023	29367SJR6	11/8/2019	11/8/2023	1.750	249,000.00	358.15	0.00
Raymond James Bank 1.75 11/8/2023	75472RAH4	11/8/2019	11/8/2023	1.750	247,000.00	0.00	0.00
Third Federal Savings 1.75 11/13/2023	88413QCJ5	11/12/2019	11/13/2023	1.750	247,000.00	0.00	0.00
Garnett State Bank 1.7 11/19/2024	366526AW1	11/19/2019	11/19/2024	1.700	249,000.00	347.92	0.00
Citizens State Bank 1.7 11/22/2024	176688CR8	11/22/2019	11/22/2024	1.700	249,000.00	347.92	0.00
Marlin Business Bank UT 1.7 12/4/2023	57116ATG3	12/2/2019	12/4/2023	1.700	249,000.00	347.92	0.00
Baycoast Bank MA 0.9 3/31/2025	072727BG4	3/31/2020	3/31/2025	0.900	248,000.00	0.00	0.00
Enerbank UT 1.15 4/29/2024	29278TNY2	4/29/2020	4/29/2024	1.150	249,000.00	235.36	0.00
First Freedom Bank 1.1 4/30/2024	32027BAM9	4/30/2020	4/30/2024	1.100	249,000.00	225.12	0.00

Description	CUSIP/Ticker	Settlement Date	Maturity Date	Coupon Rate	Ending Face Amount/Shares	Interest/Dividends	Sell Accrued Interest
Flagstar Bank MI 1.25 4/30/2025	33847E3A3	4/30/2020	4/30/2025	1.250	248,000.00	0.00	0.00
Apex Bank TN 0.95 5/8/2025	03753XBK5	5/8/2020	5/8/2025	0.950	249,000.00	194.42	0.00
Seattle Bank WA 0.75 6/2/2025-20	81258PKJ1	6/2/2020	6/2/2025	0.750	249,000.00	153.49	0.00
Medallion Bank UT 0.6 7/15/2025	58404DHM6	7/15/2020	7/15/2025	0.600	249,000.00	122.79	0.00
Preferred Bank CA 0.25 7/17/2023	740367LV7	7/17/2020	7/17/2023	0.250	249,000.00	51.16	0.00
Bankwell Bank CT 0.35 1/30/2024	06654BCM1	7/30/2020	1/30/2024	0.350	249,000.00	432.17	0.00
BMW Bank UT 0.5 9/25/2025	05580AXF6	9/25/2020	9/25/2025	0.500	249,000.00	0.00	0.00
BMO Harris Bank IL 0.5 3/28/2025-20	05600XAY6	9/28/2020	3/28/2025	0.500	249,000.00	0.00	0.00
First Commercial Bank MS 0.3 3/31/2025	31984GFK0	9/30/2020	3/31/2025	0.300	249,000.00	61.40	0.00
Farm Bureau Bank NV 0.25 7/9/2024	307660LK4	10/9/2020	7/9/2024	0.250	249,000.00	51.16	0.00
Texas Exchange Bank TX 0.6 12/18/2025	88241TJR2	12/18/2020	12/18/2025	0.600	249,000.00	122.79	0.00
JPMorgan Chase OH 0.5 12/29/2025-21	48128UUZ0	12/29/2020	12/29/2025	0.500	249,000.00	0.00	0.00
John Marshall Bancorp VA 0.2 12/29/2023	47804GGC1	12/30/2020	12/29/2023	0.200	249,000.00	40.93	0.00
Live Oak Banking NC 0.5 2/10/2026	538036NE0	2/10/2021	2/10/2026	0.500	249,000.00	102.33	0.00
Luana Savings Bank IA 0.2 8/19/2024	549104WN3	2/19/2021	8/19/2024	0.200	249,000.00	0.00	0.00
Homestreet Bank WA 0.1 8/22/2022	43785QPQ0	2/22/2021	8/22/2022	0.100	249,000.00	20.47	0.00
Toyota Financial Savings NV 0.95 7/29/2026	89235MLE9	7/29/2021	7/29/2026	0.950	248,000.00	1,168.32	0.00
Transportation Alliance Bank 0.4 1/30/2025	89388CFD5	8/3/2021	1/30/2025	0.400	247,000.00	81.21	0.00
UBS Bank UT 0.95 8/25/2026	90348JS50	8/25/2021	8/25/2026	0.950	249,000.00	194.42	0.00
Synchrony Bank UT 0.55 9/3/2024	87164WA73	9/3/2021	9/3/2024	0.550	249,000.00	0.00	0.00
Capital One Bank VA 1.1 11/17/2026	14042TDW4	11/17/2021	11/17/2026	1.100	248,000.00	0.00	0.00
Discover Bank 3.4 7/6/2027	254673L38	7/6/2022	7/6/2027	3.400	245,000.00	0.00	0.00
Sub Total/Average 04. Negotiable CD30%					9,929,000.00	17,573.35	0.00

05. US Agency - No Limit

FHLB 3 12/9/2022	3130AFE78	1/9/2019	12/9/2022	3.000	1,000,000.00	0.00	0.00
FAMC 3.05 9/19/2023	3132X06C0	1/9/2019	9/19/2023	3.050	500,000.00	0.00	0.00
FFCB 2.125 6/5/2023	3133EKPT7	11/8/2019	6/5/2023	2.125	500,000.00	0.00	0.00
FNMA 1.375 9/6/2022	3135G0W33	11/8/2019	9/6/2022	1.375	500,000.00	0.00	0.00
FAMC 2.15 6/5/2024	31422BGA2	11/8/2019	6/5/2024	2.150	500,000.00	0.00	0.00
FHLMC 0.7 5/13/2025-21	3134GVSY5	5/13/2020	5/13/2025	0.700	500,000.00	0.00	0.00
FHLMC 0.5 5/20/2024-22	3134GVXR4	5/21/2020	5/20/2024	0.500	500,000.00	0.00	0.00
FHLMC 0.45 7/8/2024-22	3134GV4S4	7/13/2020	7/8/2024	0.450	750,000.00	1,687.50	0.00
FHLMC 0.375 7/14/2023-22	3134GV5F1	7/14/2020	7/14/2023	0.375	250,000.00	468.75	0.00
FFCB 0.25 9/21/2023-22	3133EMAM4	9/24/2020	9/21/2023	0.250	500,000.00	0.00	0.00
FHLMC 0.35 9/30/2024-22	3134GWVM5	9/30/2020	9/30/2024	0.350	250,000.00	0.00	0.00
FHLMC 0.4 9/30/2025-21	3134GWVP8	9/30/2020	9/30/2025	0.400	250,000.00	0.00	0.00
FNMA 0.54 11/3/2025-22	3135GA2G5	10/30/2020	11/3/2025	0.540	500,000.00	0.00	0.00
FFCB 0.27 11/3/2023-22	3133EMFN7	11/3/2020	11/3/2023	0.270	250,000.00	0.00	0.00

Description	CUSIP/Ticker	Settlement Date	Maturity Date	Coupon Rate	Ending Face Amount/Shares	Interest/Dividends	Sell Accrued Interest
FNMA 0.375 8/25/2025	3135G05X7	11/12/2020	8/25/2025	0.375	250,000.00	0.00	0.00
FHLMC 0.3 11/13/2023-22	3134GXAY0	11/13/2020	11/13/2023	0.300	250,000.00	0.00	0.00
FNMA 0.56 11/17/2025-22	3135GA2Z3	11/17/2020	11/17/2025	0.560	325,000.00	0.00	0.00
FNMA 0.58 11/25/2025-22	3135GA5E7	11/30/2020	11/25/2025	0.580	250,000.00	0.00	0.00
FNMA 0.6 7/29/2025-22	3136G4D75	12/18/2020	7/29/2025	0.600	250,000.00	750.00	0.00
FFCB 0.47 12/22/2025-22	3133EMLC4	12/22/2020	12/22/2025	0.470	250,000.00	0.00	0.00
FFCB 0.125 5/3/2023-21	3133EMPA4	2/5/2021	5/3/2023	0.125	250,000.00	0.00	0.00
FFCB 0.32 2/3/2025-21	3133EMPV8	2/5/2021	2/3/2025	0.320	250,000.00	0.00	0.00
FHLB 0.625 2/24/2026-21	3130AL7M0	3/2/2021	2/24/2026	0.625	250,000.00	0.00	0.00
FFCB 0.45 2/2/2026-23	3133EMPD8	3/2/2021	2/2/2026	0.450	300,000.00	0.00	0.00
FFCB 0.3 11/12/2024-21	3133EMQQ8	3/2/2021	11/12/2024	0.300	250,000.00	0.00	0.00
FFCB 0.43 3/3/2025	3133EMSJ2	3/3/2021	3/3/2025	0.430	250,000.00	0.00	0.00
FHLB 0.6 3/10/2026-21	3130ALFX7	3/10/2021	3/10/2026	0.600	250,000.00	0.00	0.00
FHLB 0.5 3/10/2025-21	3130ALDZ4	3/24/2021	3/10/2025	0.500	250,000.00	0.00	0.00
FHLB 0.75 3/16/2026-21	3130ALF33	3/24/2021	3/16/2026	0.750	250,000.00	0.00	0.00
FFCB 0.25 3/1/2024-21	3133EMSD5	3/24/2021	3/1/2024	0.250	250,000.00	0.00	0.00
FHLMC 0.45 10/29/2025-21	3134GW3J3	4/22/2021	10/29/2025	0.450	250,000.00	0.00	0.00
FHLMC 1.03 4/29/2026-22	3130ALZM9	4/29/2021	4/29/2026	1.030	250,000.00	0.00	0.00
FNMA 0.5 8/14/2025-23	3135G05S8	4/29/2021	8/14/2025	0.500	250,000.00	0.00	0.00
FHLMC 0.65 10/27/2025-21	3134GW5R3	5/25/2021	10/27/2025	0.650	375,000.00	0.00	0.00
FHLB 0.875 5/26/2026-21	3130AMHB1	5/28/2021	5/26/2026	0.875	250,000.00	0.00	0.00
FFCB 0.53 9/29/2025-21	3133EMBH4	6/17/2021	9/29/2025	0.530	500,000.00	0.00	0.00
FFCB 0.9 6/15/2026-22	3133EMH21	6/17/2021	6/15/2026	0.900	250,000.00	0.00	0.00
FFCB 0.6 6/16/2025-22	3133EMH47	6/17/2021	6/16/2025	0.600	250,000.00	0.00	0.00
FHLB 0.53 2/10/2026	3130AKWW2	8/19/2021	2/10/2026	0.530	310,000.00	0.00	0.00
FHLB 0.625 2/24/2025-22	3130ANQ86	8/24/2021	2/24/2025	0.625	250,000.00	0.00	0.00
FFCB 0.8 3/9/2026-23	3133EMSU7	9/24/2021	3/9/2026	0.800	250,000.00	0.00	0.00
FFCB 0.94 9/28/2026-22	3133EM6E7	9/28/2021	9/28/2026	0.940	250,000.00	0.00	0.00
FHLB 0.85 3/30/2026-21	3130ANY79	11/10/2021	3/30/2026	0.850	250,000.00	0.00	0.00
FHLMC 0.8 10/27/2026-21	3134GW4C7	11/10/2021	10/27/2026	0.800	250,000.00	0.00	0.00
FFCB 1.46 11/30/2026-23	3133ENFP0	11/30/2021	11/30/2026	1.460	250,000.00	0.00	0.00
FFCB 1.32 1/21/2025	3133ENLU2	3/17/2022	1/21/2025	1.320	250,000.00	1,650.00	0.00
FFCB 1.68 3/10/2027	3133ENRD4	3/17/2022	3/10/2027	1.680	250,000.00	0.00	0.00
FHLB 3 4/21/2027-23	3130ARJF9	4/21/2022	4/21/2027	3.000	250,000.00	0.00	0.00
FHLB 3.125 10/29/2026-24	3130ARUF6	5/12/2022	10/29/2026	3.125	250,000.00	0.00	0.00
Sub Total/Average 05. US Agency - No Limit					16,060,000.00	4,556.25	0.00

06. US Treasury - No Limit

T-Note 0.25 6/30/2025	912828ZW3	4/22/2021	6/30/2025	0.250	250,000.00	0.00	0.00
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Description	CUSIP/Ticker	Settlement Date	Maturity Date	Coupon Rate	Ending Face Amount/Shares	Interest/Dividends	Sell Accrued Interest
T-Note 0.375 1/31/2026	91282CBH3	4/29/2021	1/31/2026	0.375	250,000.00	468.75	0.00
T-Note 0.375 4/30/2025	912828ZL7	7/1/2021	4/30/2025	0.375	250,000.00	0.00	0.00
T-Note 0.375 4/30/2025	912828ZL7	8/19/2021	4/30/2025	0.375	250,000.00	0.00	0.00
T-Note 0.125 2/15/2024	91282CBM2	8/19/2021	2/15/2024	0.125	250,000.00	0.00	0.00
T-Note 0.25 3/15/2024	91282CBR1	9/24/2021	3/15/2024	0.250	250,000.00	0.00	0.00
T-Note 0.25 6/15/2024	91282CCG4	9/24/2021	6/15/2024	0.250	250,000.00	0.00	0.00
T-Note 0.625 7/31/2026	91282CCP4	9/24/2021	7/31/2026	0.625	250,000.00	781.25	0.00
T-Note 0.375 10/31/2023	91282CDD0	11/10/2021	10/31/2023	0.375	250,000.00	0.00	0.00
T-Note 0.125 8/31/2023	91282CCU3	1/24/2022	8/31/2023	0.125	200,000.00	0.00	0.00
T-Note 2.25 12/31/2024	9128283P3	4/13/2022	12/31/2024	2.250	250,000.00	0.00	0.00
Sub Total/Average 06. US Treasury - No Limit					2,700,000.00	1,250.00	0.00
07. US Bank MM Custody Policy 50%							
US Bank Custodian MM	MM65000	7/31/2020	N/A	N/A	1,816,257.34	129.22	0.00
Sub Total/Average 07. US Bank MM Custody Policy 50%					1,816,257.34	129.22	0.00
09. Pacific Premier Bank Policy - n/a							
Pacific Premier Bank Checking Cash	MM0831	5/28/2020	N/A	N/A	7,661,878.24	0.00	0.00
Sub Total/Average 09. Pacific Premier Bank Policy - n/a					7,661,878.24	0.00	0.00
Total / Average					39,012,701.07	23,870.01	0.00

Mesa Water District
Portfolio Holdings
Investment Report | PARS Trust
Report Format: By CUSIP / Ticker
Group By: Portfolio Name
Average By: Market Value
Portfolio / Report Group: PARS OPEB Trust
As of 7/31/2022

Description	CUSIP/Ticker	Security Type	Face Amount/Shares	Cost Value	Market Value
PARS OPEB Trust					
Columbia Contrarian Fund	19766M709	Mutual Fund	4,926.18	128,715.82	147,242.90
DFA Large Cap	233203868	Mutual Fund	3,818.80	89,846.61	89,206.90
Dodge & Cox International	256206103	Mutual Fund	776.94	29,843.79	33,625.36
Dodge & Cox Stock Fund	256219106	Mutual Fund	554.00	102,159.50	124,765.90
Doubeline Core Fix Income	258620301	Mutual Fund	10,140.82	112,156.56	99,886.88
Harbor Capital Appreciation	411512528	Mutual Fund	1,142.47	94,510.68	84,371.12
Hartford Schroders	41665X859	Mutual Fund	5,697.92	103,210.84	86,437.27
iShares Russell Mid Cap	464287499	Mutual Fund	1,960.00	96,839.34	139,199.20
iShares SP500	464287408	Mutual Fund	406.00	53,320.61	59,105.48
MFS International	552746356	Mutual Fund	951.54	33,773.02	35,292.08
PGIM Total Return Bond	74440B884	Mutual Fund	7,962.31	116,665.09	101,359.25
PIMCO	693390841	Mutual Fund	1,883.94	16,983.52	15,146.84
Pimco Total Return Fund	693390700	Mutual Fund	11,046.53	115,997.18	101,406.98
Price T Rowe Growth	741479406	Mutual Fund	1,097.24	84,146.87	83,324.25
Undiscovered	904504479	Mutual Fund	1,278.58	92,184.93	105,954.78
US Bank PARS - OPEB TrustCash	CASH4900	Cash	64.55	64.55	64.55
US Bank PARS - OPEB Trust MM	MM4900	Money Market	260,033.00	260,033.00	260,033.00
Vanguard Growth & Income	921913208	Mutual Fund	3,178.93	253,723.82	290,458.98
Vanguard Real Estate	922908553	Mutual Fund	407.00	33,628.48	40,276.72
Vanguard Short Term	922031836	Mutual Fund	6,007.11	63,113.76	61,332.55
Vanguard Small Cap Growth	922908595	Mutual Fund	456.00	123,318.25	100,365.60
Sub Total / Average PARS OPEB Trust			323,789.86	2,004,236.22	2,058,856.59
Total / Average			323,789.86	2,004,236.22	2,058,856.59

Mesa Water District
Portfolio Holdings
Investment Report | PARS Trust
Report Format: By CUSIP / Ticker
Group By: Portfolio Name
Average By: Market Value
Portfolio / Report Group: PARS Pension Trust
As of 7/31/2022

Description	CUSIP/Ticker	Security Type	Face Amount/Shares	Cost Value	Market Value
PARS Pension Trust					
Columbia Contrarian Fund	19766M709	Mutual Fund	35,898.22	961,990.83	1,072,997.40
DFA Large Cap	233203868	Mutual Fund	26,529.26	618,470.94	619,723.42
Dodge & Cox International	256206103	Mutual Fund	5,600.38	211,381.38	242,384.40
Dodge & Cox Stock Fund	256219106	Mutual Fund	3,997.20	751,727.11	900,207.81
Doubeline Core Fix Income	258620301	Mutual Fund	76,699.78	844,270.11	755,492.63
Harbor Capital Appreciation	411512528	Mutual Fund	7,521.10	634,679.56	555,434.21
Hartford Schroders	41665X859	Mutual Fund	43,629.90	770,391.71	661,865.53
iShares Russell Mid Cap	464287499	Mutual Fund	14,355.00	479,192.53	1,019,492.10
iShares SP500	464287408	Mutual Fund	2,946.00	384,900.51	428,878.68
MFS International	552746356	Mutual Fund	6,641.00	225,096.06	246,315.11
PGIM Total Return Bond	74440B884	Mutual Fund	59,337.08	865,714.69	755,361.31
PIMCO	693390841	Mutual Fund	14,546.24	130,876.87	116,951.83
Pimco Total Return Fund	693390700	Mutual Fund	82,996.03	865,637.68	761,903.55
Price T Rowe Growth	741479406	Mutual Fund	7,311.96	564,904.29	555,270.94
Undiscovered	904504479	Mutual Fund	9,271.97	636,860.17	768,368.90
US Bank PARS - Pension Trust MM	MM4901	Money Market	782,744.45	782,744.45	782,744.45
Vanguard Growth & Income	921913208	Mutual Fund	22,989.90	1,835,711.69	2,100,586.68
Vanguard Real Estate	922908553	Mutual Fund	2,893.00	228,753.32	286,291.28
Vanguard Short Term	922031836	Mutual Fund	61,679.85	653,236.44	629,751.26
Vanguard Small Cap Growth	922908595	Mutual Fund	3,303.00	906,512.13	726,990.30
Sub Total / Average PARS Pension Trust			1,270,891.32	13,353,052.47	13,987,011.79
Total / Average			1,270,891.32	13,353,052.47	13,987,011.79

Mesa Water District
 Transactions Summary
 Monthly Treasurer's Status Report - Investment Activity
 Group By: Action
 Portfolio / Report Group: PARS OPEB Trust
 Begin Date: 06/30/2022, End Date: 07/31/2022

Description	CUSIP/Ticker	YTM @ Cost	Settlement Date	Maturity Date	Face Amount/Shares	Principal	Interest/Dividends	Total
Buy								
Pimco Total Return Fund	693390700	0.000	7/31/2022	N/A	23.807	218.55	0.00	218.55
PGIM Total Return Bond	74440B884	0.000	7/31/2022	N/A	25.481	324.37	0.00	324.37
Vanguard Short Term	922031836	0.000	7/31/2022	N/A	10.094	103.06	0.00	103.06
Sub Total / Average Buy					59.382	645.98	0.00	645.98
Dividend								
DFA Large Cap	233203868	0.000	7/1/2022	N/A	0.00	0.00	1,036.11	1,036.11
Doubeline Core Fix Income	258620301	0.000	7/1/2022	N/A	0.00	0.00	311.70	311.70
PIMCO	693390841	0.000	7/31/2022	N/A	0.00	0.00	64.55	64.55
Pimco Total Return Fund	693390700	0.000	7/31/2022	N/A	0.00	0.00	218.55	218.55
PGIM Total Return Bond	74440B884	0.000	7/31/2022	N/A	0.00	0.00	324.37	324.37
Vanguard Short Term	922031836	0.000	7/31/2022	N/A	0.00	0.00	103.06	103.06
Sub Total / Average Dividend					0.00	0.00	2,058.34	2,058.34
Sell								
Price T Rowe Growth	741479406	0.000	7/19/2022	N/A	18.478	1,323.76	0.00	1,323.76
Harbor Capital Appreciation	411512528	0.000	7/19/2022	N/A	19.24	1,331.41	0.00	1,331.41
Sub Total / Average Sell					37.718	2,655.17	0.00	2,655.17

Mesa Water District
Transactions Summary
Monthly Treasurer's Status Report - Investment Activity
Group By: Action
Portfolio / Report Group: PARS Pension Trust
Begin Date: 06/30/2022, End Date: 07/31/2022

Description	CUSIP/Ticker	YTM @ Cost	Settlement Date	Maturity Date	Face Amount/Shares	Principal	Interest/Dividends	Total
Dividend								
DFA Large Cap	233203868	0.000	7/1/2022	N/A	0.00	0.00	7,561.83	7,561.83
Doubleline Core Fix Income	258620301	0.000	7/1/2022	N/A	0.00	0.00	2,357.57	2,357.57
PIMCO	693390841	0.000	7/31/2022	N/A	0.00	0.00	498.31	498.31
Pimco Total Return Fund	693390700	0.000	7/31/2022	N/A	0.00	0.00	1,645.74	1,645.74
PGIM Total Return Bond	74440B884	0.000	7/31/2022	N/A	0.00	0.00	2,425.07	2,425.07
Vanguard Short Term	922031836	0.000	7/31/2022	N/A	0.00	0.00	1,059.95	1,059.95
Sub Total / Average Dividend					0.00	0.00	15,548.47	15,548.47
Sell								
Hartford Schroders	41665X859	0.000	7/19/2022	N/A	2,205.824	33,197.65	0.00	33,197.65
iShares SP500	464287408	0.000	7/19/2022	N/A	17.00	2,376.28	0.00	2,376.28
DFA Large Cap	233203868	0.000	7/19/2022	N/A	1,341.257	30,178.28	0.00	30,178.28
Undiscovered	904504479	0.000	7/19/2022	N/A	46.326	3,673.65	0.00	3,673.65
Dodge & Cox Stock Fund	256219106	0.000	7/19/2022	N/A	23.336	5,161.92	0.00	5,161.92
Vanguard Small Cap Growth	922908595	0.000	7/19/2022	N/A	16.00	3,315.68	0.00	3,315.68
Dodge & Cox International	256206103	0.000	7/19/2022	N/A	283.141	12,064.64	0.00	12,064.64
MFS International	552746356	0.000	7/19/2022	N/A	335.754	12,043.50	0.00	12,043.50
iShares Russell Mid Cap	464287499	0.000	7/27/2022	N/A	854.00	58,257.09	0.00	58,257.09
Sub Total / Average Sell					5,122.638	160,268.69	0.00	160,268.69

Mesa Water District
Quarterly Treasurer's Report on Investments
As of 06/30/2022



Investments are in compliance with the Investment Policy adopted as Resolution 1506 of the Mesa Water District Board of Directors. The liquidity of investments will meet cash flow needs for the next six months except under unforeseen catastrophic circumstances.

INVESTMENTS	Maturity Date	Days to Maturity	Yield to Maturity @ Cost	Cost Value	% of Portfolio	Policy % Limit	Market Value	Interest Year to Date	Notes
Local Agency Investment Fund (LAIF)	Liquid	1	0.86%	1,085.56	0.00%	No Limit	1,085.56	3.01	1,4
Orange County Investment Pool (OCIP)	Liquid	1	0.74%	830,118.74	2.08%	No Limit	830,118.74	3,852.00	1,6
Miscellaneous (Petty Cash, Emergency Cash, etc.)	Liquid	1	0.00%	14,000.00	0.04%	N/A	14,000.00	0.00	
US Bank Custody Account									2,5
Negotiable Certificate of Deposit	Various	814	1.26%	9,684,000.00	23.08%	30.00%	9,230,462.25	138,169.39	
US Agency Bonds	Various	936	0.98%	16,097,390.79	38.00%	No Limit	15,194,936.35	150,060.25	
US Treasury Bonds	Various	887	0.67%	2,685,104.80	6.36%	No Limit	2,543,322.00	8,718.75	
Sub Total / Average		889	1.042%	28,466,495.59			26,968,720.60	296,948.39	
US Bank Custody Account	Liquid	1	0.00%	1,049,780.69	2.62%	No Limit	1,049,780.69	247.12	
Pacific Premier Bank	Liquid	1	1.25%	11,128,098.78	27.82%	No Limit	11,128,098.78	0.00	1,3
Total Average		600	1.092%	\$41,489,579.36	100.00%		\$39,991,804.37	\$301,050.52	

PARS OPEB & Pension Trust	1 Month Rate of Return	3 Month Rate of Return	Cost Value	Market Value
Public Agency Retirement Services (PARS)				
Capital Appreciation HighMark PLUS Fund				
OPEB	-6.73%	-12.79%	1,892,386.53	1,835,871.74
Pension Trust	-6.75%	-12.81%	13,371,525.14	13,265,743.12
Benchmark - S & P 500 Index			15,263,911.67	15,101,614.86
1 Month -8.78 %	3 Month -16.63 %	1 YEAR -11.98 %		

Sources of Market Value Valuation - Account Statements

LAIF, OCIP & US Bank

Local Agency Investment Fund (LAIF)

District LAIF includes the funds designated for advances; construction, customer deposits, working capital cash and monies to pay COP principal/interest payments.

Weighted Average Return | 1.092 %

Benchmark: 3 Month Treasury Bill - June | 1.54 %

Weighted Average Maturity | 1.6 Years

Days to Maturity | 600

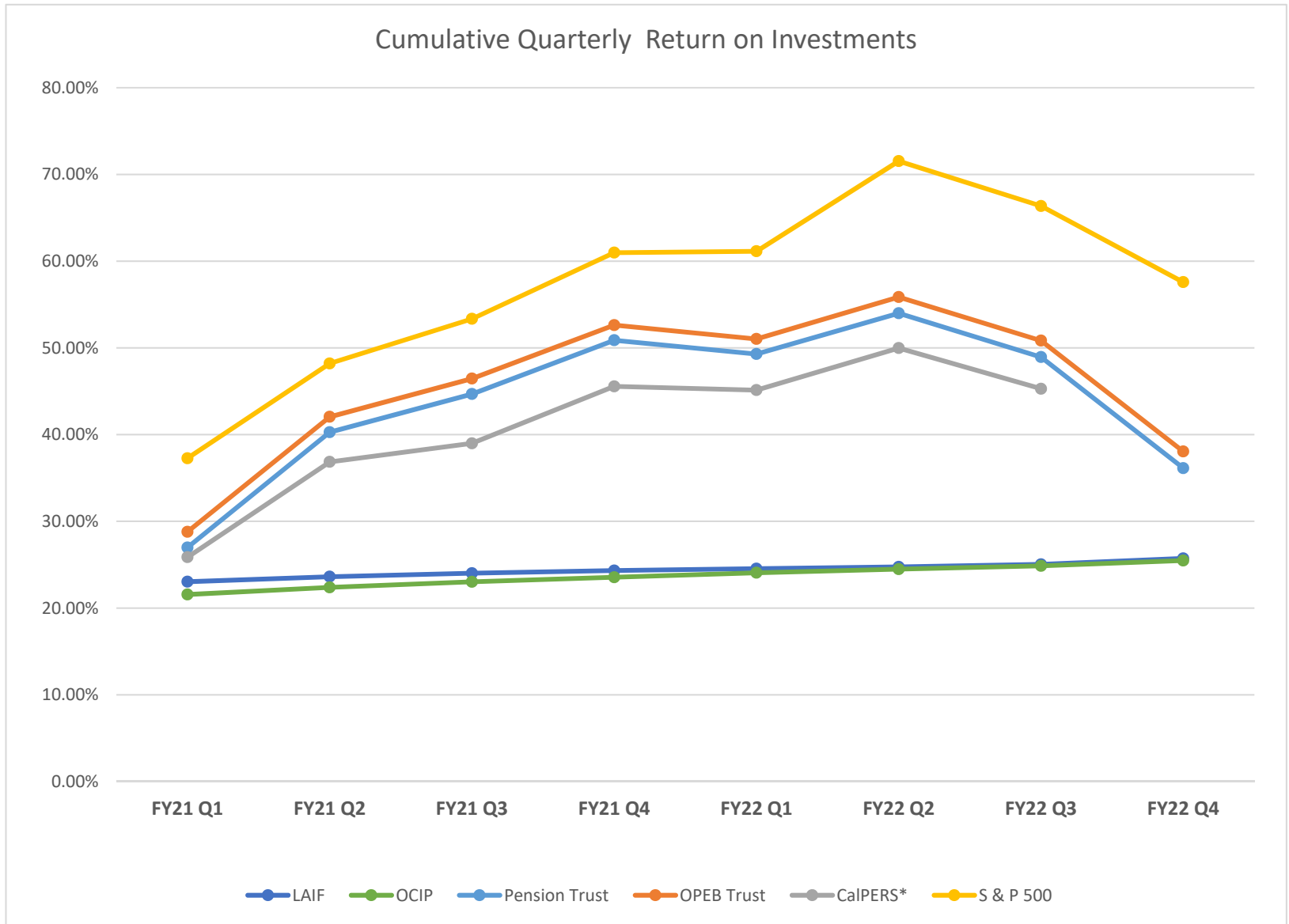
Notes

- The interest or yield shown is for the current month net of fees.
- The interest rate (Yield to Maturity @Cost) shown is the guaranteed annual interest rate for the term of the investment.
- The rate shown is the Earnings Credit Rate. These earnings are applied against bank service charges; no actual monies are received.
- LAIF general ledger carrying value reflects market value (unrealized gains/losses) only at fiscal year end. LAIF only provides the market value participation factor quarterly. *The March Fair Value Factor is 0.988753538. The yield earned on the Treasurer's Reports does not reflect change in fair market value.
- US Bank Custody Account general ledger carrying value reflects market value (unrealized gains/losses). The Yield earned does not reflect change in fair market value.
- Orange County Investment Pool March 2022 | Net Asset Value is 1.00.

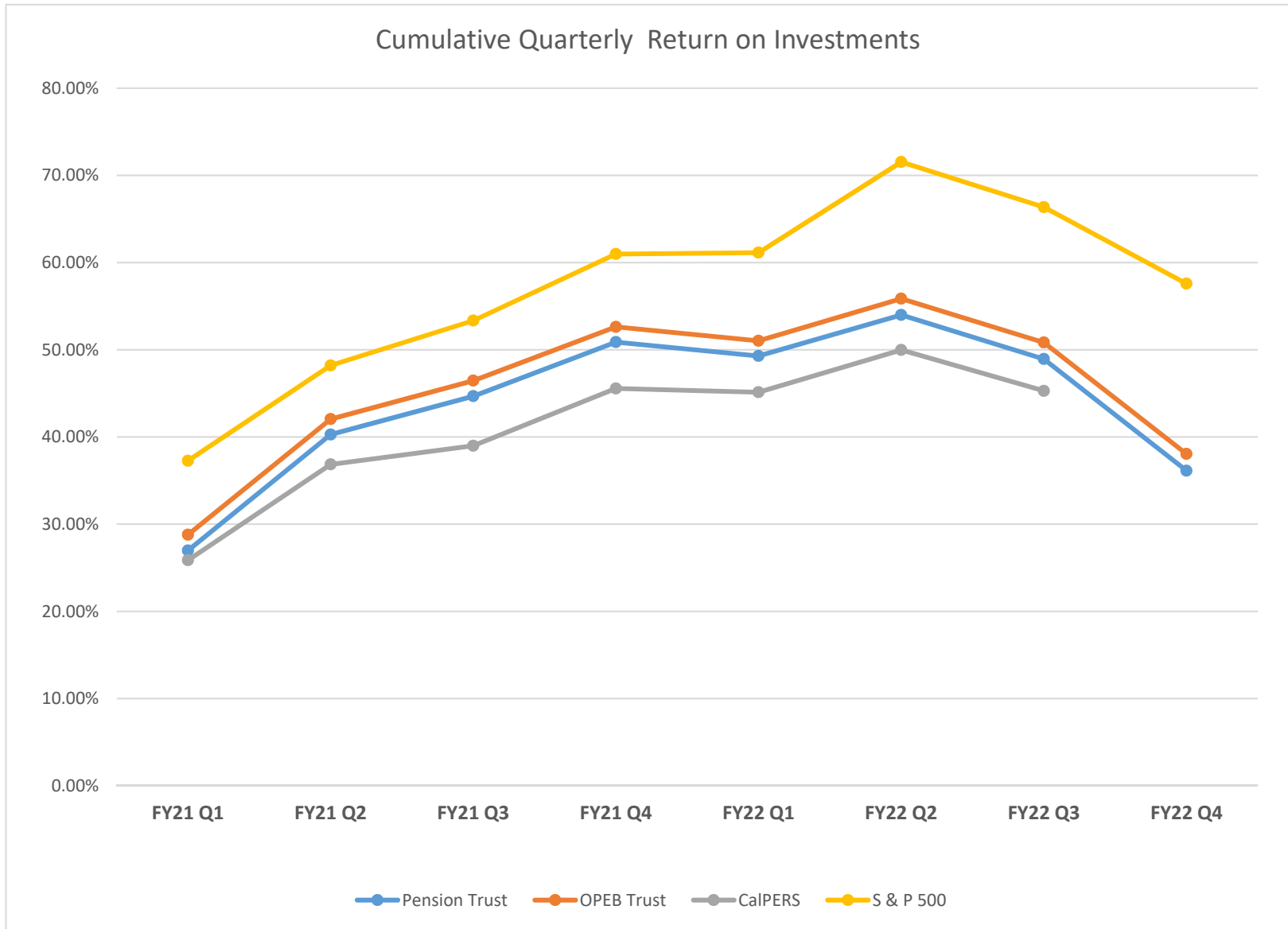
*LAIF 06/30/2022 Fair Value Factor not available at reporting deadline.

I certify that this report reflects the cash and investments of Mesa Water District and is in conformity with the Government Code requirements and the District Investment Policy/Guidelines in effect at the time of the investment.

Marwan Khalifa
 Marwan Khalifa, CPA, MBA, - District Treasurer



*** CalPERS FY22 Q4 data was unavailable at time of publishing.**



*** CalPERS FY22 Q4 data was unavailable at time of publishing.**

Mesa Water District
 Transactions Summary
 Quarterly Treasurer's Status Report - Investment Activity
 Group By: Action
 Portfolio / Report Group: Report Group | Treasurer's Report
 Begin Date: 03/31/2022, End Date: 06/30/2022

Description	CUSIP/Ticker	YTM @ Cost	Settlement Date	Maturity Date	Face Amount/Shares	Principal	Interest/Dividends	Total
Buy								
T-Note 2.25 12/31/2024	9128283P3	2.465	4/13/2022	12/31/2024	250,000.00	248,592.25	1,600.48	250,192.73
FHLB 3 4/21/2027-23	3130ARJF9	3.000	4/21/2022	4/21/2027	250,000.00	250,000.00	0.00	250,000.00
FHLB 3.125 10/29/2026-24	3130ARUF6	3.125	5/12/2022	10/29/2026	250,000.00	250,000.00	282.12	250,282.12
Sub Total / Average Buy					750,000.00	748,592.25	1,882.60	750,474.85
Matured								
FNMA 1.875 4/5/2022	3135G0T45	0.000	4/5/2022	4/5/2022	500,000.00	500,000.00	0.00	500,000.00
American Express 2.45 4/5/2022	02587DN38	0.000	4/5/2022	4/5/2022	247,000.00	247,000.00	0.00	247,000.00
Sub Total / Average Matured					747,000.00	747,000.00	0.00	747,000.00

Mesa Water District

Date To Date

Interest | Received - Annual

Report Format: By Transaction

Group By: Asset Category

Portfolio / Report Group: Report Group | Treasurer's Report

Begin Date: 6/30/2021, End Date: 6/30/2022

Description	CUSIP/Ticker	Settlement Date	Maturity Date	Coupon Rate	Ending Face Amount/Shares	Interest/Dividends	Sell Accrued Interest
LAIF Policy - No Limit							
LAIF LGIP	LGIP0012	6/30/2010	N/A	N/A	1,085.56	3.01	0.00
Sub Total/Average					1,085.56	3.01	0.00
Orange County LGIP - OCIP Policy - No Limit							
Orange County Investment Pool LGIP	LGIP9LC	9/30/2011	N/A	N/A	830,118.74	3,852.00	0.00
Sub Total/Average					830,118.74	3,852.00	0.00
Miscellaneous Cash (Petty Emergency)							
Miscellaneous Cash	CASH	6/30/2015	N/A	N/A	14,000.00	0.00	0.00
Sub Total/Average					14,000.00	0.00	0.00
Negotiable CD 30%							
Wells Fargo SD 1.6 8/3/2021	9497486Z5	8/3/2016	8/3/2021	1.600	0.00	660.47	0.00
Privatebank and Trust IL 1.5 8/30/2021	74267GVM6	8/29/2016	8/30/2021	1.500	0.00	1,857.58	0.00
Mercantil Commerce Bank FL 1.65 9/28/2021	58733ADJ5	9/28/2016	9/28/2021	1.650	0.00	2,054.50	0.00
Countryside Federal CU NY 1.65 10/28/2021	22239MAL2	10/28/2016	10/28/2021	1.650	0.00	1,362.22	0.00
Bank of Baroda 1.85 11/23/2021	06062QXG4	11/23/2016	11/23/2021	1.850	0.00	2,303.53	0.00
First National Bank MI 2 1/20/2022	32110YJT3	1/20/2017	1/20/2022	2.000	0.00	2,356.91	0.00
State Bank India NY 2.35 3/14/2022	8562846V1	3/14/2017	3/14/2022	2.350	0.00	5,804.50	0.00
American Express 2.45 4/5/2022	02587DN38	4/5/2017	4/5/2022	2.450	0.00	6,051.50	0.00
Homestreet Bank WA 0.1 8/22/2022	43785QPQ0	2/22/2021	8/22/2022	0.100	249,000.00	249.03	0.00
Ally Bank UT 1.85 10/24/2022	02007GML4	10/24/2019	10/24/2022	1.850	247,000.00	4,569.50	0.00
Preferred Bank CA 0.25 7/17/2023	740367LV7	7/17/2020	7/17/2023	0.250	249,000.00	622.48	0.00
Merrick Bank UT 3 7/31/2023	59013J6G9	1/30/2019	7/31/2023	3.000	249,000.00	7,470.00	0.00
Enterprise Bank & Trust 1.75 11/8/2023	29367SJR6	11/8/2019	11/8/2023	1.750	249,000.00	4,357.50	0.00
Raymond James Bank 1.75 11/8/2023	75472RAH4	11/8/2019	11/8/2023	1.750	247,000.00	4,322.50	0.00
Third Federal Savings 1.75 11/13/2023	88413QCJ5	11/12/2019	11/13/2023	1.750	247,000.00	4,322.50	0.00
Marlin Business Bank UT 1.7 12/4/2023	57116ATG3	12/2/2019	12/4/2023	1.700	249,000.00	4,233.04	0.00
John Marshall Bancorp VA 0.2 12/29/2023	47804GGC1	12/30/2020	12/29/2023	0.200	249,000.00	498.02	0.00
Goldman Sachs NY 3.3 1/16/2024	38148P4E4	1/16/2019	1/16/2024	3.300	245,000.00	8,085.00	0.00

Description	CUSIP/Ticker	Settlement Date	Maturity Date	Coupon Rate	Ending Face Amount/Shares	Interest/Dividends	Sell Accrued Interest
Bankwell Bank CT 0.35 1/30/2024	06654BCM1	7/30/2020	1/30/2024	0.350	249,000.00	871.50	0.00
Morgan Stanley UT 3.05 1/31/2024	61690UDV9	1/31/2019	1/31/2024	3.050	246,000.00	7,503.00	0.00
Morgan Stanley NY 3.05 1/31/2024	61760AVF3	1/31/2019	1/31/2024	3.050	246,000.00	7,503.00	0.00
Enerbank UT 1.15 4/29/2024	29278TNY2	4/29/2020	4/29/2024	1.150	249,000.00	2,863.51	0.00
First Freedom Bank 1.1 4/30/2024	32027BAM9	4/30/2020	4/30/2024	1.100	249,000.00	2,739.00	0.00
Capital One VA 2.65 5/22/2024	14042RLP4	5/22/2019	5/22/2024	2.650	246,000.00	6,519.00	0.00
Eaglebank MD 2.5 5/24/2024	27002YEN2	5/24/2019	5/24/2024	2.500	249,000.00	6,224.99	0.00
Farm Bureau Bank NV 0.25 7/9/2024	307660LK4	10/9/2020	7/9/2024	0.250	249,000.00	622.48	0.00
Luana Savings Bank IA 0.2 8/19/2024	549104WN3	2/19/2021	8/19/2024	0.200	249,000.00	498.00	0.00
Synchrony Bank UT 0.55 9/3/2024	87164WA73	9/3/2021	9/3/2024	0.550	249,000.00	679.12	0.00
Sallie Mae Bank UT 1.9 10/16/2024	7954504P7	10/17/2019	10/16/2024	1.900	247,000.00	4,693.00	0.00
Celtic Bank UT 1.65 10/23/2024	15118RSV0	10/23/2019	10/23/2024	1.650	249,000.00	4,108.47	0.00
Garnett State Bank 1.7 11/19/2024	366526AW1	11/19/2019	11/19/2024	1.700	249,000.00	4,233.04	0.00
Citizens State Bank 1.7 11/22/2024	176688CR8	11/22/2019	11/22/2024	1.700	249,000.00	4,233.04	0.00
Transportation Alliance Bank 0.4 1/30/2025	89388CFD5	8/3/2021	1/30/2025	0.400	247,000.00	906.80	0.00
BMO Harris Bank IL 0.5 3/28/2025-20	05600XAY6	9/28/2020	3/28/2025	0.500	249,000.00	1,245.01	0.00
Baycoast Bank MA 0.9 3/31/2025	072727BG4	3/31/2020	3/31/2025	0.900	248,000.00	2,232.00	0.00
First Commercial Bank MS 0.3 3/31/2025	31984GFK0	9/30/2020	3/31/2025	0.300	249,000.00	746.99	0.00
Flagstar Bank MI 1.25 4/30/2025	33847E3A3	4/30/2020	4/30/2025	1.250	248,000.00	3,100.00	0.00
Apex Bank TN 0.95 5/8/2025	03753XBK5	5/8/2020	5/8/2025	0.950	249,000.00	2,365.51	0.00
Seattle Bank WA 0.75 6/2/2025-20	81258PKJ1	6/2/2020	6/2/2025	0.750	249,000.00	1,867.49	0.00
Medallion Bank UT 0.6 7/15/2025	58404DHM6	7/15/2020	7/15/2025	0.600	249,000.00	1,494.00	0.00
BMW Bank UT 0.5 9/25/2025	05580AXF6	9/25/2020	9/25/2025	0.500	249,000.00	1,245.00	0.00
Texas Exchange Bank TX 0.6 12/18/2025	88241TJR2	12/18/2020	12/18/2025	0.600	249,000.00	1,494.00	0.00
JPMorgan Chase OH 0.5 12/29/2025-21	48128UUZ0	12/29/2020	12/29/2025	0.500	249,000.00	1,245.00	0.00
Live Oak Banking NC 0.5 2/10/2026	538036NE0	2/10/2021	2/10/2026	0.500	249,000.00	1,245.01	0.00
Toyota Financial Savings NV 0.95 7/29/2026	89235MLE9	7/29/2021	7/29/2026	0.950	248,000.00	1,187.68	0.00
UBS Bank UT 0.95 8/25/2026	90348JS50	8/25/2021	8/25/2026	0.950	249,000.00	1,970.18	0.00
Capital One Bank VA 1.1 11/17/2026	14042TDW4	11/17/2021	11/17/2026	1.100	248,000.00	1,352.79	0.00
Sub Total/Average					9,684,000.00	138,169.39	0.00
US Agency - No Limit							
FHLB 2 11/10/2021-18	3130A9S44	11/10/2016	11/10/2021	2.000	0.00	7,500.00	0.00
FNMA 1.875 4/5/2022	3135G0T45	3/23/2020	4/5/2022	1.875	0.00	9,375.00	0.00
FNMA 1.375 9/6/2022	3135G0W33	11/8/2019	9/6/2022	1.375	500,000.00	6,875.00	0.00
FHLB 3 12/9/2022	3130AFE78	1/9/2019	12/9/2022	3.000	1,000,000.00	30,000.00	0.00
FFCB 0.125 5/3/2023-21	3133EMPA4	2/5/2021	5/3/2023	0.125	250,000.00	312.50	0.00
FFCB 2.125 6/5/2023	3133EKPT7	11/8/2019	6/5/2023	2.125	500,000.00	10,625.00	0.00
FHLMC 0.375 7/14/2023-22	3134GV5F1	7/14/2020	7/14/2023	0.375	250,000.00	937.50	0.00

Description	CUSIP/Ticker	Settlement Date	Maturity Date	Coupon Rate	Ending Face Amount/Shares	Interest/Dividends	Sell Accrued Interest
FAMC 3.05 9/19/2023	3132X06C0	1/9/2019	9/19/2023	3.050	500,000.00	15,250.00	0.00
FFCB 0.25 9/21/2023-22	3133EMAM4	9/24/2020	9/21/2023	0.250	500,000.00	1,250.00	0.00
FHLMC 0.4 10/23/2023-21	3134GV6D5	7/23/2020	10/23/2023	0.400	0.00	500.00	0.00
FFCB 0.27 11/3/2023-22	3133EMFN7	11/3/2020	11/3/2023	0.270	250,000.00	675.00	0.00
FHLMC 0.3 11/13/2023-22	3134GXAY0	11/13/2020	11/13/2023	0.300	250,000.00	750.00	0.00
FFCB 0.25 3/1/2024-21	3133EMSD5	3/24/2021	3/1/2024	0.250	250,000.00	625.00	0.00
FHLMC 0.5 5/20/2024-22	3134GVXR4	5/21/2020	5/20/2024	0.500	500,000.00	2,500.00	0.00
FAMC 2.15 6/5/2024	31422BGA2	11/8/2019	6/5/2024	2.150	500,000.00	10,750.00	0.00
FHLMC 0.45 7/8/2024-22	3134GV4S4	7/13/2020	7/8/2024	0.450	750,000.00	3,375.00	0.00
FHLMC 0.35 9/30/2024-22	3134GWVM5	9/30/2020	9/30/2024	0.350	250,000.00	875.00	0.00
FFCB 0.3 11/12/2024-21	3133EMQQ8	3/2/2021	11/12/2024	0.300	250,000.00	750.00	0.00
FFCB 1.32 1/21/2025	3133ENLU2	3/17/2022	1/21/2025	1.320	250,000.00	0.00	0.00
FFCB 0.32 2/3/2025-21	3133EMPV8	2/5/2021	2/3/2025	0.320	250,000.00	800.00	0.00
FHLB 0.625 2/24/2025-22	3130ANQ86	8/24/2021	2/24/2025	0.625	250,000.00	781.25	0.00
FFCB 0.43 3/3/2025	3133EMSJ2	3/3/2021	3/3/2025	0.430	250,000.00	1,075.00	0.00
FHLB 0.5 3/10/2025-21	3130ALDZ4	3/24/2021	3/10/2025	0.500	250,000.00	1,250.00	0.00
FHLMC 0.7 5/13/2025-21	3134GVSY5	5/13/2020	5/13/2025	0.700	500,000.00	3,500.00	0.00
FFCB 0.6 6/16/2025-22	3133EMH47	6/17/2021	6/16/2025	0.600	250,000.00	1,500.00	0.00
FNMA 0.6 7/29/2025-22	3136G4D75	12/18/2020	7/29/2025	0.600	250,000.00	1,500.00	0.00
FNMA 0.5 8/14/2025-23	3135G05S8	4/29/2021	8/14/2025	0.500	250,000.00	1,250.00	0.00
FNMA 0.375 8/25/2025	3135G05X7	11/12/2020	8/25/2025	0.375	250,000.00	937.50	0.00
FFCB 0.53 9/29/2025-21	3133EMBH4	6/17/2021	9/29/2025	0.530	500,000.00	2,650.00	0.00
FHLMC 0.4 9/30/2025-21	3134GWVP8	9/30/2020	9/30/2025	0.400	250,000.00	1,000.00	0.00
FHLMC 0.65 10/27/2025-21	3134GW5R3	5/25/2021	10/27/2025	0.650	375,000.00	2,437.50	0.00
FHLMC 0.45 10/29/2025-21	3134GW3J3	4/22/2021	10/29/2025	0.450	250,000.00	1,125.00	0.00
FNMA 0.54 11/3/2025-22	3135GA2G5	10/30/2020	11/3/2025	0.540	500,000.00	2,700.00	0.00
FNMA 0.56 11/17/2025-22	3135GA2Z3	11/17/2020	11/17/2025	0.560	325,000.00	1,820.00	0.00
FNMA 0.58 11/25/2025-22	3135GA5E7	11/30/2020	11/25/2025	0.580	250,000.00	1,450.00	0.00
FFCB 0.47 12/22/2025-22	3133EMLC4	12/22/2020	12/22/2025	0.470	250,000.00	1,175.00	0.00
FFCB 0.45 2/2/2026-23	3133EMPD8	3/2/2021	2/2/2026	0.450	300,000.00	1,350.00	0.00
FHLB 0.53 2/10/2026	3130AKWW2	8/19/2021	2/10/2026	0.530	310,000.00	821.50	0.00
FHLB 0.625 2/24/2026-21	3130AL7M0	3/2/2021	2/24/2026	0.625	250,000.00	1,562.50	0.00
FFCB 0.8 3/9/2026-23	3133EMSU7	9/24/2021	3/9/2026	0.800	250,000.00	1,000.00	0.00
FHLB 0.6 3/10/2026-21	3130ALFX7	3/10/2021	3/10/2026	0.600	250,000.00	1,500.00	0.00
FHLB 0.75 3/16/2026-21	3130ALF33	3/24/2021	3/16/2026	0.750	250,000.00	1,875.00	0.00
FHLB 0.85 3/30/2026-21	3130ANY79	11/10/2021	3/30/2026	0.850	250,000.00	1,062.50	0.00
FHLMC 1.03 4/29/2026-22	3130ALZM9	4/29/2021	4/29/2026	1.030	250,000.00	2,575.00	0.00
FHLB 0.875 5/26/2026-21	3130AMHB1	5/28/2021	5/26/2026	0.875	250,000.00	2,187.50	0.00
FFCB 0.9 6/15/2026-22	3133EMH21	6/17/2021	6/15/2026	0.900	250,000.00	2,250.00	0.00

Description	CUSIP/Ticker	Settlement Date	Maturity Date	Coupon Rate	Ending Face Amount/Shares	Interest/Dividends	Sell Accrued Interest
FFCB 0.94 9/28/2026-22	3133EM6E7	9/28/2021	9/28/2026	0.940	250,000.00	1,175.00	0.00
FHLMC 0.8 10/27/2026-21	3134GW4C7	11/10/2021	10/27/2026	0.800	250,000.00	1,000.00	0.00
FHLB 3.125 10/29/2026-24	3130ARUF6	5/12/2022	10/29/2026	3.125	250,000.00	0.00	0.00
FFCB 1.46 11/30/2026-23	3133ENFP0	11/30/2021	11/30/2026	1.460	250,000.00	1,825.00	0.00
FFCB 1.68 3/10/2027	3133ENRD4	3/17/2022	3/10/2027	1.680	250,000.00	0.00	0.00
FHLB 3 4/21/2027-23	3130ARJF9	4/21/2022	4/21/2027	3.000	250,000.00	0.00	0.00
Sub Total/Average					16,060,000.00	150,060.25	0.00
US Treasury - No Limit							
T-Note 0.125 8/31/2023	91282CCU3	1/24/2022	8/31/2023	0.125	200,000.00	125.00	0.00
T-Note 0.375 10/31/2023	91282CDD0	11/10/2021	10/31/2023	0.375	250,000.00	468.75	0.00
T-Note 0.125 2/15/2024	91282CBM2	8/19/2021	2/15/2024	0.125	250,000.00	156.25	0.00
T-Note 0.25 3/15/2024	91282CBR1	9/24/2021	3/15/2024	0.250	250,000.00	312.50	0.00
T-Note 0.25 6/15/2024	91282CCG4	9/24/2021	6/15/2024	0.250	250,000.00	625.00	0.00
T-Note 2.25 12/31/2024	9128283P3	4/13/2022	12/31/2024	2.250	250,000.00	2,812.50	0.00
T-Note 0.375 4/30/2025	912828ZL7	7/1/2021	4/30/2025	0.375	250,000.00	937.50	0.00
T-Note 0.375 4/30/2025	912828ZL7	8/19/2021	4/30/2025	0.375	250,000.00	937.50	0.00
T-Note 0.25 6/30/2025	912828ZW3	4/22/2021	6/30/2025	0.250	250,000.00	625.00	0.00
T-Note 0.375 1/31/2026	91282CBH3	4/29/2021	1/31/2026	0.375	250,000.00	937.50	0.00
T-Note 0.625 7/31/2026	91282CCP4	9/24/2021	7/31/2026	0.625	250,000.00	781.25	0.00
Sub Total/Average					2,700,000.00	8,718.75	0.00
US Bank MM Custody Policy 50%							
US Bank Custodian MM	MM65000	7/31/2020	N/A	N/A	1,049,780.69	247.12	0.00
Sub Total/Average					1,049,780.69	247.12	0.00
Pacific Premier Bank Policy - n/a							
Pacific Premier Bank Checking Cash	MM0831	5/28/2020	N/A	N/A	11,128,098.78	0.00	0.00
Sub Total/Average					11,128,098.78	0.00	0.00
Total / Average					41,467,083.77	301,050.52	0.00

Mesa Water District
Portfolio Holdings
Investment Report | PARS Trust
Report Format: By CUSIP / Ticker
Group By: Portfolio Name
Average By: Market Value
Portfolio / Report Group: PARS OPEB Trust
As of 6/30/2022

Description	CUSIP/Ticker	Security Type	Face Amount/Shares	Cost Value	Market Value
PARS OPEB Trust					
Columbia Contrarian Fund	19766M709	Mutual Fund	4,926.18	128,715.82	136,356.10
DFA Large Cap	233203868	Mutual Fund	3,818.80	89,846.61	84,968.02
Dodge & Cox International	256206103	Mutual Fund	776.94	29,843.79	33,058.22
Dodge & Cox Stock Fund	256219106	Mutual Fund	554.00	102,159.50	118,627.58
Doubeline Core Fix Income	258620301	Mutual Fund	10,140.82	112,156.56	98,162.93
Harbor Capital Appreciation	411512528	Mutual Fund	1,161.71	95,715.87	75,499.31
Hartford Schroders	41665X859	Mutual Fund	5,697.92	103,210.84	87,121.03
iShares Russell Mid Cap	464287499	Mutual Fund	1,960.00	96,839.34	126,733.60
iShares SP500	464287408	Mutual Fund	406.00	53,320.61	55,808.76
MFS International	552746356	Mutual Fund	951.54	33,773.02	33,484.15
PGIM Total Return Bond	74440B884	Mutual Fund	7,936.83	116,340.72	98,733.25
PIMCO	693390841	Mutual Fund	1,883.94	16,983.52	14,299.08
Pimco Total Return Fund	693390700	Mutual Fund	11,022.72	115,778.63	99,204.32
Price T Rowe Growth	741479406	Mutual Fund	1,115.71	85,169.78	75,221.59
Undiscovered	904504479	Mutual Fund	1,278.58	92,184.93	98,283.38
US Bank PARS - OPEB Trust MM	MM4900	Money Market	146,665.74	146,665.74	146,665.74
Vanguard Growth & Income	921913208	Mutual Fund	3,178.93	253,723.82	266,267.34
Vanguard Real Estate	922908553	Mutual Fund	407.00	33,628.48	37,081.77
Vanguard Short Term	922031836	Mutual Fund	5,997.02	63,010.70	60,449.89
Vanguard Small Cap Growth	922908595	Mutual Fund	456.00	123,318.25	89,845.68
Sub Total / Average PARS OPEB Trust			210,336.38	1,892,386.53	1,835,871.74
Total / Average			210,336.38	1,892,386.53	1,835,871.74

Mesa Water District
Portfolio Holdings
Investment Report | PARS Trust
Report Format: By CUSIP / Ticker
Group By: Portfolio Name
Average By: Market Value
Portfolio / Report Group: PARS Pension Trust
As of 6/30/2022

Description	CUSIP/Ticker	Security Type	Face Amount/Shares	Cost Value	Market Value
PARS Pension Trust					
Columbia Contrarian Fund	19766M709	Mutual Fund	35,898.22	961,990.83	993,662.36
DFA Large Cap	233203868	Mutual Fund	27,870.52	646,436.15	620,118.91
Dodge & Cox International	256206103	Mutual Fund	5,883.52	224,344.80	250,343.78
Dodge & Cox Stock Fund	256219106	Mutual Fund	4,020.54	756,443.81	860,915.87
Doubeline Core Fix Income	258620301	Mutual Fund	76,699.78	844,270.11	742,453.65
Harbor Capital Appreciation	411512528	Mutual Fund	7,521.10	634,679.56	488,797.13
Hartford Schroders	41665X859	Mutual Fund	45,835.72	802,883.49	700,828.20
iShares Russell Mid Cap	464287499	Mutual Fund	15,209.00	479,192.61	983,413.94
iShares SP500	464287408	Mutual Fund	2,963.00	387,111.61	407,293.98
MFS International	552746356	Mutual Fund	6,976.75	236,310.19	245,512.36
PGIM Total Return Bond	74440B884	Mutual Fund	59,337.08	865,714.69	738,153.58
PIMCO	693390841	Mutual Fund	14,546.24	130,876.87	110,406.02
Pimco Total Return Fund	693390700	Mutual Fund	82,996.03	865,637.68	746,964.27
Price T Rowe Growth	741479406	Mutual Fund	7,311.96	564,904.29	492,972.94
Undiscovered	904504479	Mutual Fund	9,318.30	639,340.00	716,298.12
US Bank PARS - Pension Trust MM	MM4901	Money Market	702,717.75	702,717.75	702,717.75
Vanguard Growth & Income	921913208	Mutual Fund	22,989.90	1,835,711.69	1,925,633.60
Vanguard Real Estate	922908553	Mutual Fund	2,893.00	228,753.32	263,581.23
Vanguard Short Term	922031836	Mutual Fund	61,679.85	653,236.44	621,732.86
Vanguard Small Cap Growth	922908595	Mutual Fund	3,319.00	910,969.25	653,942.57
Sub Total / Average PARS Pension Trust			1,195,987.26	13,371,525.14	13,265,743.12
Total / Average			1,195,987.26	13,371,525.14	13,265,743.12

Mesa Water District
Transactions Summary
Quarterly Treasurer's Status Report - Investment Activity
Group By: Action
Portfolio / Report Group: PARS OPEB Trust
Begin Date: 03/31/2022, End Date: 06/30/2022

Description	CUSIP/Ticker	YTM @ Cost	Settlement Date	Maturity Date	Face Amount/Shares	Principal	Interest/Dividends	Total
Buy								
iShares SP500	464287408	0.000	4/1/2022	N/A	14.00	2,173.15	0.00	2,173.15
Dodge & Cox Stock Fund	256219106	0.000	4/1/2022	N/A	11.223	2,767.24	0.00	2,767.24
Pimco Total Return Fund	693390700	0.000	4/1/2022	N/A	531.473	5,075.57	0.00	5,075.57
PGIM Total Return Bond	74440B884	0.000	4/1/2022	N/A	303.895	4,084.35	0.00	4,084.35
Vanguard Short Term	922031836	0.000	4/1/2022	N/A	1,168.50	12,023.87	0.00	12,023.87
Doubleline Core Fix Income	258620301	0.000	4/1/2022	N/A	460.091	4,743.54	0.00	4,743.54
iShares Russell Mid Cap	464287499	0.000	4/1/2022	N/A	142.00	11,058.45	0.00	11,058.45
Hartford Schroders	41665X859	0.000	4/14/2022	N/A	105.79	1,786.80	0.00	1,786.80
Vanguard Small Cap Growth	922908595	0.000	4/14/2022	N/A	3.00	721.67	0.00	721.67
MFS International	552746356	0.000	4/14/2022	N/A	16.898	662.91	0.00	662.91
Price T Rowe Growth	741479406	0.000	4/14/2022	N/A	19.848	1,676.74	0.00	1,676.74
Vanguard Short Term	922031836	0.000	4/14/2022	N/A	2,628.446	26,941.57	0.00	26,941.57
Harbor Capital Appreciation	411512528	0.000	4/14/2022	N/A	12.667	1,038.96	0.00	1,038.96
Pimco Total Return Fund	693390700	0.000	4/30/2022	N/A	25.285	232.12	0.00	232.12
PGIM Total Return Bond	74440B884	0.000	4/30/2022	N/A	20.851	267.93	0.00	267.93
Vanguard Short Term	922031836	0.000	4/30/2022	N/A	10.48	106.58	0.00	106.58
Pimco Total Return Fund	693390700	0.000	5/31/2022	N/A	22.64	208.48	0.00	208.48
PGIM Total Return Bond	74440B884	0.000	5/31/2022	N/A	24.52	314.07	0.00	314.07
Vanguard Short Term	922031836	0.000	5/31/2022	N/A	13.09	133.92	0.00	133.92
Hartford Schroders	41665X859	0.000	6/3/2022	N/A	25.867	420.59	0.00	420.59
iShares SP500	464287408	0.000	6/3/2022	N/A	1.00	150.07	0.00	150.07
Vanguard Growth & Income	921913208	0.000	6/3/2022	N/A	12.879	1,184.37	0.00	1,184.37
Vanguard Real Estate	922908553	0.000	6/3/2022	N/A	1.00	99.12	0.00	99.12
DFA Large Cap	233203868	0.000	6/3/2022	N/A	15.759	390.35	0.00	390.35
Undiscovered	904504479	0.000	6/3/2022	N/A	5.183	442.93	0.00	442.93
Dodge & Cox Stock Fund	256219106	0.000	6/3/2022	N/A	2.24	527.16	0.00	527.16
Columbia Contrarian Fund	19766M709	0.000	6/3/2022	N/A	20.099	601.98	0.00	601.98
Vanguard Small Cap Growth	922908595	0.000	6/3/2022	N/A	1.00	216.89	0.00	216.89
Dodge & Cox International	256206103	0.000	6/3/2022	N/A	3.335	154.63	0.00	154.63
MFS International	552746356	0.000	6/3/2022	N/A	3.97	149.55	0.00	149.55
Price T Rowe Growth	741479406	0.000	6/3/2022	N/A	4.164	306.31	0.00	306.31
Harbor Capital Appreciation	411512528	0.000	6/3/2022	N/A	4.288	302.65	0.00	302.65

Description	CUSIP/Ticker	YTM @ Cost	Settlement Date	Maturity Date	Face Amount/Shares	Principal	Interest/Dividends	Total
iShares Russell Mid Cap	464287499	0.000	6/3/2022	N/A	8.00	576.88	0.00	576.88
Vanguard Growth & Income	921913208	0.000	6/17/2022	N/A	24.135	1,967.72	0.00	1,967.72
Hartford Schroders	41665X859	0.000	6/21/2022	N/A	72.715	1,131.45	0.00	1,131.45
iShares SP500	464287408	0.000	6/21/2022	N/A	4.00	545.46	0.00	545.46
Vanguard Growth & Income	921913208	0.000	6/21/2022	N/A	35.901	2,998.10	0.00	2,998.10
Vanguard Real Estate	922908553	0.000	6/21/2022	N/A	4.00	358.51	0.00	358.51
DFA Large Cap	233203868	0.000	6/21/2022	N/A	44.452	1,006.40	0.00	1,006.40
Undiscovered	904504479	0.000	6/21/2022	N/A	14.749	1,114.15	0.00	1,114.15
Dodge & Cox Stock Fund	256219106	0.000	6/21/2022	N/A	6.31	1,354.87	0.00	1,354.87
Columbia Contrarian Fund	19766M709	0.000	6/21/2022	N/A	56.087	1,546.89	0.00	1,546.89
Vanguard Small Cap Growth	922908595	0.000	6/21/2022	N/A	5.00	974.88	0.00	974.88
Dodge & Cox International	256206103	0.000	6/21/2022	N/A	9.395	404.00	0.00	404.00
MFS International	552746356	0.000	6/21/2022	N/A	11.208	393.53	0.00	393.53
Price T Rowe Growth	741479406	0.000	6/21/2022	N/A	11.467	777.32	0.00	777.32
Harbor Capital Appreciation	411512528	0.000	6/21/2022	N/A	11.755	765.25	0.00	765.25
iShares Russell Mid Cap	464287499	0.000	6/21/2022	N/A	24.00	1,543.56	0.00	1,543.56
Vanguard Real Estate	922908553	0.000	6/22/2022	N/A	11.00	991.06	0.00	991.06
Vanguard Small Cap Growth	922908595	0.000	6/22/2022	N/A	2.00	389.47	0.00	389.47
Price T Rowe Growth	741479406	0.000	6/22/2022	N/A	106.967	7,244.85	0.00	7,244.85
Harbor Capital Appreciation	411512528	0.000	6/22/2022	N/A	124.129	8,080.80	0.00	8,080.80
Dodge & Cox Stock Fund	256219106	0.000	6/27/2022	N/A	2.357	518.54	0.00	518.54
Pimco Total Return Fund	693390700	0.000	6/30/2022	N/A	24.437	219.93	0.00	219.93
PGIM Total Return Bond	74440B884	0.000	6/30/2022	N/A	24.799	308.50	0.00	308.50
Vanguard Short Term	922031836	0.000	6/30/2022	N/A	13.01	131.14	0.00	131.14
Sub Total / Average Buy					6,287.354	116,307.78	0.00	116,307.78

Dividend								
DFA Large Cap	233203868	0.000	4/1/2022	N/A	0.00	0.00	352.63	352.63
Doubeline Core Fix Income	258620301	0.000	4/1/2022	N/A	0.00	0.00	319.78	319.78
PIMCO	693390841	0.000	4/29/2022	N/A	0.00	0.00	70.47	70.47
Pimco Total Return Fund	693390700	0.000	4/30/2022	N/A	0.00	0.00	232.12	232.12
PGIM Total Return Bond	74440B884	0.000	4/30/2022	N/A	0.00	0.00	267.93	267.93
Vanguard Short Term	922031836	0.000	4/30/2022	N/A	0.00	0.00	106.58	106.58
Doubeline Core Fix Income	258620301	0.000	5/2/2022	N/A	0.00	0.00	283.31	283.31
PIMCO	693390841	0.000	5/31/2022	N/A	0.00	0.00	64.17	64.17
Pimco Total Return Fund	693390700	0.000	5/31/2022	N/A	0.00	0.00	208.48	208.48
PGIM Total Return Bond	74440B884	0.000	5/31/2022	N/A	0.00	0.00	314.07	314.07
Vanguard Short Term	922031836	0.000	5/31/2022	N/A	0.00	0.00	133.92	133.92
Doubeline Core Fix Income	258620301	0.000	6/1/2022	N/A	0.00	0.00	264.73	264.73
iShares SP500	464287408	0.000	6/15/2022	N/A	0.00	0.00	235.77	235.77

Description	CUSIP/Ticker	YTM @ Cost	Settlement Date	Maturity Date	Face Amount/Shares	Principal	Interest/Dividends	Total
iShares Russell Mid Cap	464287499	0.000	6/15/2022	N/A	0.00	0.00	422.88	422.88
Vanguard Growth & Income	921913208	0.000	6/17/2022	N/A	0.00	0.00	1,967.72	1,967.72
Dodge & Cox Stock Fund	256219106	0.000	6/27/2022	N/A	0.00	0.00	518.54	518.54
Vanguard Real Estate	922908553	0.000	6/28/2022	N/A	0.00	0.00	231.79	231.79
Vanguard Small Cap Growth	922908595	0.000	6/28/2022	N/A	0.00	0.00	109.58	109.58
PIMCO	693390841	0.000	6/30/2022	N/A	0.00	0.00	64.97	64.97
Pimco Total Return Fund	693390700	0.000	6/30/2022	N/A	0.00	0.00	219.93	219.93
PGIM Total Return Bond	74440B884	0.000	6/30/2022	N/A	0.00	0.00	308.50	308.50
Vanguard Short Term	922031836	0.000	6/30/2022	N/A	0.00	0.00	131.14	131.14
Sub Total / Average Dividend					0.00	0.00	6,829.01	6,829.01

Sell

PIMCO	693390841	0.000	4/1/2022	N/A	1,139.319	9,672.82	0.00	9,672.82
Hartford Schroders	41665X859	0.000	4/1/2022	N/A	162.29	2,862.80	0.00	2,862.80
Vanguard Growth & Income	921913208	0.000	4/1/2022	N/A	75.325	7,562.63	0.00	7,562.63
Vanguard Real Estate	922908553	0.000	4/1/2022	N/A	6.00	655.05	0.00	655.05
DFA Large Cap	233203868	0.000	4/1/2022	N/A	35.988	941.09	0.00	941.09
Undiscovered	904504479	0.000	4/1/2022	N/A	51.491	4,481.26	0.00	4,481.26
Columbia Contrarian Fund	19766M709	0.000	4/1/2022	N/A	79.157	2,629.60	0.00	2,629.60
Vanguard Small Cap Growth	922908595	0.000	4/1/2022	N/A	33.00	8,188.09	0.00	8,188.09
Price T Rowe Growth	741479406	0.000	4/1/2022	N/A	41.28	3,741.21	0.00	3,741.21
Harbor Capital Appreciation	411512528	0.000	4/1/2022	N/A	13.767	1,207.503	0.00	1,207.50
Harbor Capital Appreciation	411512528	0.000	4/1/2022	N/A	58.908	5,166.817	0.00	5,166.82
Hartford Schroders	41665X859	0.000	4/6/2022	N/A	161.873	2,805.26	0.00	2,805.26
DFA Large Cap	233203868	0.000	4/6/2022	N/A	63.194	1,620.93	0.00	1,620.93
Dodge & Cox International	256206103	0.000	4/6/2022	N/A	15.507	723.56	0.00	723.56
MFS International	552746356	0.000	4/6/2022	N/A	25.731	1,026.67	0.00	1,026.67
iShares SP500	464287408	0.000	4/14/2022	N/A	12.00	1,876.86	0.00	1,876.86
Undiscovered	904504479	0.000	4/14/2022	N/A	21.099	1,798.89	0.00	1,798.89
Dodge & Cox Stock Fund	256219106	0.000	4/14/2022	N/A	15.968	3,889.33	0.00	3,889.33
Pimco Total Return Fund	693390700	0.000	4/14/2022	N/A	15.113	140.702	0.00	140.70
Pimco Total Return Fund	693390700	0.000	4/14/2022	N/A	15.968	148.662	0.00	148.66
Pimco Total Return Fund	693390700	0.000	4/14/2022	N/A	17.405	162.041	0.00	162.04
Pimco Total Return Fund	693390700	0.000	4/14/2022	N/A	18.283	170.215	0.00	170.22
Pimco Total Return Fund	693390700	0.000	4/14/2022	N/A	18.547	172.673	0.00	172.67
Pimco Total Return Fund	693390700	0.000	4/14/2022	N/A	19.501	181.554	0.00	181.55
Pimco Total Return Fund	693390700	0.000	4/14/2022	N/A	20.001	186.209	0.00	186.21
Pimco Total Return Fund	693390700	0.000	4/14/2022	N/A	105.832	985.296	0.00	985.30
Pimco Total Return Fund	693390700	0.000	4/14/2022	N/A	112.79	1,050.075	0.00	1,050.08
Pimco Total Return Fund	693390700	0.000	4/14/2022	N/A	200.914	1,870.509	0.00	1,870.51

Description	CUSIP/Ticker	YTM @ Cost	Settlement Date	Maturity Date	Face Amount/Shares	Principal	Interest/Dividends	Total
Pimco Total Return Fund	693390700	0.000	4/14/2022	N/A	364.557	3,394.025	0.00	3,394.03
Dodge & Cox International	256206103	0.000	4/14/2022	N/A	3.957	184.00	0.00	184.00
PGIM Total Return Bond	74440B884	0.000	4/14/2022	N/A	40.994	534.152	0.00	534.15
PGIM Total Return Bond	74440B884	0.000	4/14/2022	N/A	579.768	7,554.378	0.00	7,554.38
Doubeline Core Fix Income	258620301	0.000	4/14/2022	N/A	47.142	476.134	0.00	476.13
Doubeline Core Fix Income	258620301	0.000	4/14/2022	N/A	810.543	8,186.486	0.00	8,186.49
PIMCO	693390841	0.000	6/22/2022	N/A	95.354	731.37	0.00	731.37
Hartford Schroders	41665X859	0.000	6/22/2022	N/A	98.33	1,501.499	0.00	1,501.50
Hartford Schroders	41665X859	0.000	6/22/2022	N/A	556.769	8,501.861	0.00	8,501.86
DFA Large Cap	233203868	0.000	6/22/2022	N/A	53.369	1,198.67	0.00	1,198.67
Pimco Total Return Fund	693390700	0.000	6/22/2022	N/A	4.48	40.051	0.00	40.05
Pimco Total Return Fund	693390700	0.000	6/22/2022	N/A	15.922	142.343	0.00	142.34
Pimco Total Return Fund	693390700	0.000	6/22/2022	N/A	16.624	148.619	0.00	148.62
Pimco Total Return Fund	693390700	0.000	6/22/2022	N/A	304.071	2,718.397	0.00	2,718.40
Dodge & Cox International	256206103	0.000	6/22/2022	N/A	3.119	132.557	0.00	132.56
Dodge & Cox International	256206103	0.000	6/22/2022	N/A	3.751	159.417	0.00	159.42
Dodge & Cox International	256206103	0.000	6/22/2022	N/A	11.872	504.559	0.00	504.56
Dodge & Cox International	256206103	0.000	6/22/2022	N/A	23.987	1,019.446	0.00	1,019.45
PGIM Total Return Bond	74440B884	0.000	6/22/2022	N/A	1.13	14.035	0.00	14.04
PGIM Total Return Bond	74440B884	0.000	6/22/2022	N/A	13.337	165.646	0.00	165.65
PGIM Total Return Bond	74440B884	0.000	6/22/2022	N/A	16.35	203.067	0.00	203.07
PGIM Total Return Bond	74440B884	0.000	6/22/2022	N/A	35.82	444.885	0.00	444.89
PGIM Total Return Bond	74440B884	0.000	6/22/2022	N/A	139.453	1,732.008	0.00	1,732.01
MFS International	552746356	0.000	6/22/2022	N/A	23.75	827.93	0.00	827.93
Vanguard Short Term	922031836	0.000	6/22/2022	N/A	3.437	34.542	0.00	34.54
Vanguard Short Term	922031836	0.000	6/22/2022	N/A	5.59	56.18	0.00	56.18
Vanguard Short Term	922031836	0.000	6/22/2022	N/A	6.53	65.627	0.00	65.63
Vanguard Short Term	922031836	0.000	6/22/2022	N/A	6.615	66.481	0.00	66.48
Vanguard Short Term	922031836	0.000	6/22/2022	N/A	6.765	67.988	0.00	67.99
Vanguard Short Term	922031836	0.000	6/22/2022	N/A	6.861	68.953	0.00	68.95
Vanguard Short Term	922031836	0.000	6/22/2022	N/A	6.937	69.717	0.00	69.72
Vanguard Short Term	922031836	0.000	6/22/2022	N/A	7.455	74.923	0.00	74.92
Vanguard Short Term	922031836	0.000	6/22/2022	N/A	7.526	75.636	0.00	75.64
Vanguard Short Term	922031836	0.000	6/22/2022	N/A	7.695	77.335	0.00	77.34
Vanguard Short Term	922031836	0.000	6/22/2022	N/A	8.369	84.108	0.00	84.11
Vanguard Short Term	922031836	0.000	6/22/2022	N/A	8.372	84.139	0.00	84.14
Vanguard Short Term	922031836	0.000	6/22/2022	N/A	8.438	84.802	0.00	84.80
Vanguard Short Term	922031836	0.000	6/22/2022	N/A	9.028	90.731	0.00	90.73
Vanguard Short Term	922031836	0.000	6/22/2022	N/A	11.336	113.927	0.00	113.93
Vanguard Short Term	922031836	0.000	6/22/2022	N/A	16.996	170.81	0.00	170.81

Description	CUSIP/Ticker	YTM @ Cost	Settlement Date	Maturity Date	Face Amount/Shares	Principal	Interest/Dividends	Total
Vanguard Short Term	922031836	0.000	6/22/2022	N/A	18.352	184.438	0.00	184.44
Vanguard Short Term	922031836	0.000	6/22/2022	N/A	21.40	215.07	0.00	215.07
Vanguard Short Term	922031836	0.000	6/22/2022	N/A	21.972	220.819	0.00	220.82
Vanguard Short Term	922031836	0.000	6/22/2022	N/A	22.749	228.627	0.00	228.63
Vanguard Short Term	922031836	0.000	6/22/2022	N/A	72.021	723.811	0.00	723.81
Vanguard Short Term	922031836	0.000	6/22/2022	N/A	124.573	1,251.959	0.00	1,251.96
Vanguard Short Term	922031836	0.000	6/22/2022	N/A	173.797	1,746.66	0.00	1,746.66
Vanguard Short Term	922031836	0.000	6/22/2022	N/A	175.284	1,761.604	0.00	1,761.60
Vanguard Short Term	922031836	0.000	6/22/2022	N/A	297.788	2,992.77	0.00	2,992.77
Vanguard Short Term	922031836	0.000	6/22/2022	N/A	328.714	3,303.576	0.00	3,303.58
Vanguard Short Term	922031836	0.000	6/22/2022	N/A	1,046.348	10,515.799	0.00	10,515.80
Doubeline Core Fix Income	258620301	0.000	6/22/2022	N/A	117.772	1,140.034	0.00	1,140.03
Doubeline Core Fix Income	258620301	0.000	6/22/2022	N/A	176.265	1,706.246	0.00	1,706.25
iShares Russell Mid Cap	464287499	0.000	6/22/2022	N/A	124.00	7,948.85	0.00	7,948.85
Sub Total / Average Sell					8,669.685	141,660.003	0.00	141,660.00

Mesa Water District
Transactions Summary
Quarterly Treasurer's Status Report - Investment Activity
Group By: Action
Portfolio / Report Group: PARS Pension Trust
Begin Date: 03/31/2022, End Date: 06/30/2022

Description	CUSIP/Ticker	YTM @ Cost	Settlement Date	Maturity Date	Face Amount/Shares	Principal	Interest/Dividends	Total
Buy								
Dodge & Cox Stock Fund	256219106	0.000	4/1/2022	N/A	201.306	49,635.91	0.00	49,635.91
Pimco Total Return Fund	693390700	0.000	4/1/2022	N/A	2,092.315	19,981.61	0.00	19,981.61
PGIM Total Return Bond	74440B884	0.000	4/1/2022	N/A	1,123.236	15,096.29	0.00	15,096.29
Vanguard Short Term	922031836	0.000	4/1/2022	N/A	7,816.58	80,432.59	0.00	80,432.59
Doubeline Core Fix Income	258620301	0.000	4/1/2022	N/A	1,452.751	14,977.86	0.00	14,977.86
iShares Russell Mid Cap	464287499	0.000	4/1/2022	N/A	908.00	70,711.77	0.00	70,711.77
Hartford Schroders	41665X859	0.000	4/14/2022	N/A	772.109	13,040.95	0.00	13,040.95
Vanguard Small Cap Growth	922908595	0.000	4/14/2022	N/A	24.00	5,773.29	0.00	5,773.29
MFS International	552746356	0.000	4/14/2022	N/A	123.368	4,839.71	0.00	4,839.71
Price T Rowe Growth	741479406	0.000	4/14/2022	N/A	146.975	12,416.45	0.00	12,416.45
Vanguard Short Term	922031836	0.000	4/14/2022	N/A	19,374.664	198,590.31	0.00	198,590.31
Harbor Capital Appreciation	411512528	0.000	4/14/2022	N/A	94.243	7,729.79	0.00	7,729.79
Hartford Schroders	41665X859	0.000	6/21/2022	N/A	326.712	5,083.64	0.00	5,083.64
iShares SP500	464287408	0.000	6/21/2022	N/A	22.00	3,000.03	0.00	3,000.03
Vanguard Growth & Income	921913208	0.000	6/21/2022	N/A	162.922	13,605.64	0.00	13,605.64
Vanguard Real Estate	922908553	0.000	6/21/2022	N/A	21.00	1,882.17	0.00	1,882.17
DFA Large Cap	233203868	0.000	6/21/2022	N/A	199.256	4,511.16	0.00	4,511.16
Undiscovered	904504479	0.000	6/21/2022	N/A	66.944	5,056.92	0.00	5,056.92
Dodge & Cox Stock Fund	256219106	0.000	6/21/2022	N/A	28.638	6,149.15	0.00	6,149.15
Columbia Contrarian Fund	19766M709	0.000	6/21/2022	N/A	254.53	7,019.94	0.00	7,019.94
Vanguard Small Cap Growth	922908595	0.000	6/21/2022	N/A	25.00	4,874.37	0.00	4,874.37
Dodge & Cox International	256206103	0.000	6/21/2022	N/A	42.00	1,805.99	0.00	1,805.99
MFS International	552746356	0.000	6/21/2022	N/A	49.932	1,753.12	0.00	1,753.12
Price T Rowe Growth	741479406	0.000	6/21/2022	N/A	51.762	3,508.92	0.00	3,508.92
Harbor Capital Appreciation	411512528	0.000	6/21/2022	N/A	53.061	3,454.29	0.00	3,454.29
iShares Russell Mid Cap	464287499	0.000	6/21/2022	N/A	111.00	7,138.96	0.00	7,138.96
Sub Total / Average Buy					35,544.304	562,070.83	0.00	562,070.83
Dividend								
DFA Large Cap	233203868	0.000	4/1/2022	N/A	0.00	0.00	2,618.61	2,618.61
Doubeline Core Fix Income	258620301	0.000	4/1/2022	N/A	0.00	0.00	2,406.96	2,406.96
PIMCO	693390841	0.000	4/29/2022	N/A	0.00	0.00	519.59	519.59

Description	CUSIP/Ticker	YTM @ Cost	Settlement Date	Maturity Date	Face Amount/Shares	Principal	Interest/Dividends	Total
Pimco Total Return Fund	693390700	0.000	4/30/2022	N/A	0.00	0.00	1,709.64	1,709.64
PGIM Total Return Bond	74440B884	0.000	4/30/2022	N/A	0.00	0.00	1,970.97	1,970.97
Vanguard Short Term	922031836	0.000	4/30/2022	N/A	0.00	0.00	784.37	784.37
Doubeline Core Fix Income	258620301	0.000	5/2/2022	N/A	0.00	0.00	2,082.42	2,082.42
PIMCO	693390841	0.000	5/31/2022	N/A	0.00	0.00	471.53	471.53
Pimco Total Return Fund	693390700	0.000	5/31/2022	N/A	0.00	0.00	1,529.14	1,529.14
PGIM Total Return Bond	74440B884	0.000	5/31/2022	N/A	0.00	0.00	2,303.08	2,303.08
Vanguard Short Term	922031836	0.000	5/31/2022	N/A	0.00	0.00	983.18	983.18
Doubeline Core Fix Income	258620301	0.000	6/1/2022	N/A	0.00	0.00	1,945.88	1,945.88
iShares SP500	464287408	0.000	6/15/2022	N/A	0.00	0.00	1,724.86	1,724.86
iShares Russell Mid Cap	464287499	0.000	6/15/2022	N/A	0.00	0.00	3,099.33	3,099.33
Vanguard Growth & Income	921913208	0.000	6/21/2022	N/A	0.00	0.00	14,401.54	14,401.54
Vanguard Real Estate	922908553	0.000	6/28/2022	N/A	0.00	0.00	1,647.56	1,647.56
Dodge & Cox Stock Fund	256219106	0.000	6/28/2022	N/A	0.00	0.00	3,779.29	3,779.29
Vanguard Small Cap Growth	922908595	0.000	6/28/2022	N/A	0.00	0.00	797.56	797.56
PIMCO	693390841	0.000	6/30/2022	N/A	0.00	0.00	483.64	483.64
Pimco Total Return Fund	693390700	0.000	6/30/2022	N/A	0.00	0.00	1,623.14	1,623.14
PGIM Total Return Bond	74440B884	0.000	6/30/2022	N/A	0.00	0.00	2,269.13	2,269.13
Vanguard Short Term	922031836	0.000	6/30/2022	N/A	0.00	0.00	1,042.68	1,042.68
Sub Total / Average Dividend					0.00	0.00	50,194.10	50,194.10

Sell

PIMCO	693390841	0.000	4/1/2022	N/A	8,888.698	75,465.04	0.00	75,465.04
Hartford Schroders	41665X859	0.000	4/1/2022	N/A	1,536.357	27,101.34	0.00	27,101.34
iShares SP500	464287408	0.000	4/1/2022	N/A	114.00	17,688.71	0.00	17,688.71
Vanguard Growth & Income	921913208	0.000	4/1/2022	N/A	671.187	67,387.17	0.00	67,387.17
Vanguard Real Estate	922908553	0.000	4/1/2022	N/A	75.00	8,188.08	0.00	8,188.08
Vanguard Real Estate	922908553	0.000	4/1/2022	N/A	107.00	11,681.66	0.00	11,681.66
DFA Large Cap	233203868	0.000	4/1/2022	N/A	564.779	14,768.97	0.00	14,768.97
Undiscovered	904504479	0.000	4/1/2022	N/A	488.132	42,482.13	0.00	42,482.13
Columbia Contrarian Fund	19766M709	0.000	4/1/2022	N/A	821.878	27,302.79	0.00	27,302.79
Vanguard Small Cap Growth	922908595	0.000	4/1/2022	N/A	285.00	70,715.38	0.00	70,715.38
Dodge & Cox International	256206103	0.000	4/1/2022	N/A	130.298	6,199.58	0.00	6,199.58
MFS International	552746356	0.000	4/1/2022	N/A	153.735	6,197.06	0.00	6,197.06
Price T Rowe Growth	741479406	0.000	4/1/2022	N/A	397.168	35,995.34	0.00	35,995.34
Harbor Capital Appreciation	411512528	0.000	4/1/2022	N/A	59.518	5,220.323	0.00	5,220.32
Harbor Capital Appreciation	411512528	0.000	4/1/2022	N/A	269.101	23,602.847	0.00	23,602.85
Harbor Capital Appreciation	411512528	0.000	4/1/2022	N/A	269.309	23,621.09	0.00	23,621.09
Hartford Schroders	41665X859	0.000	4/6/2022	N/A	1,177.456	20,405.31	0.00	20,405.31
DFA Large Cap	233203868	0.000	4/6/2022	N/A	456.868	11,718.66	0.00	11,718.66

Description	CUSIP/Ticker	YTM @ Cost	Settlement Date	Maturity Date	Face Amount/Shares	Principal	Interest/Dividends	Total
Dodge & Cox International	256206103	0.000	4/6/2022	N/A	113.703	5,305.38	0.00	5,305.38
MFS International	552746356	0.000	4/6/2022	N/A	187.838	7,494.74	0.00	7,494.74
iShares SP500	464287408	0.000	4/14/2022	N/A	101.00	15,796.89	0.00	15,796.89
Undiscovered	904504479	0.000	4/14/2022	N/A	19.154	1,633.071	0.00	1,633.07
Undiscovered	904504479	0.000	4/14/2022	N/A	134.523	11,469.439	0.00	11,469.44
Dodge & Cox Stock Fund	256219106	0.000	4/14/2022	N/A	116.254	28,315.99	0.00	28,315.99
Pimco Total Return Fund	693390700	0.000	4/14/2022	N/A	780.299	7,264.584	0.00	7,264.58
Pimco Total Return Fund	693390700	0.000	4/14/2022	N/A	5,712.081	53,179.476	0.00	53,179.48
Dodge & Cox International	256206103	0.000	4/14/2022	N/A	29.795	1,385.47	0.00	1,385.47
PGIM Total Return Bond	74440B884	0.000	4/14/2022	N/A	4,398.768	57,315.95	0.00	57,315.95
Doubeline Core Fix Income	258620301	0.000	4/14/2022	N/A	6,288.146	63,510.27	0.00	63,510.27
Hartford Schroders	41665X859	0.000	4/22/2022	N/A	463.307	7,519.47	0.00	7,519.47
DFA Large Cap	233203868	0.000	4/22/2022	N/A	351.133	8,757.26	0.00	8,757.26
Dodge & Cox International	256206103	0.000	4/22/2022	N/A	89.716	4,065.93	0.00	4,065.93
MFS International	552746356	0.000	4/22/2022	N/A	130.212	4,989.72	0.00	4,989.72
Price T Rowe Growth	741479406	0.000	4/22/2022	N/A	39.465	3,141.81	0.00	3,141.81
Harbor Capital Appreciation	411512528	0.000	4/22/2022	N/A	40.595	3,170.06	0.00	3,170.06
Sub Total / Average Sell					35,461.473	780,056.99	0.00	780,056.99



MONTHLY COMMITTEE

Major Staff Projects

Title	Comments	Status
Month End Closing	Training	In Process
Capital Charges		In Process
Fiscal Year 2022	Closing	In Process



*Dedicated to
Satisfying our Community's
Water Needs*

MEMORANDUM

TO: Board of Directors
FROM: Stacy Taylor, Water Policy Manager
DATE: August 23, 2022
SUBJECT: State Advocacy Update

RECOMMENDATION

Receive and file the State Advocacy Update.

STRATEGIC PLAN

Goal #7: Actively participate in regional and statewide water issues.

PRIOR BOARD ACTION/DISCUSSION

This item is provided at the monthly Board of Directors Committee meeting.

DISCUSSION

An updated State Advocacy report will be provided at the August 23, 2022 meeting.

FINANCIAL IMPACT

In Fiscal Year 2023, \$260,000 is budgeted for Support Services; \$10,000 has been spent to date.

ATTACHMENTS

None.



*Dedicated to
Satisfying our Community's
Water Needs*

MEMORANDUM

TO: Board of Directors
FROM: Stacy Taylor, Water Policy Manager
DATE: August 23, 2022
SUBJECT: Orange County Update

RECOMMENDATION

Receive and file the Orange County Update.

STRATEGIC PLAN

Goal #7: Actively participate in regional and statewide water issues.

PRIOR BOARD ACTION/DISCUSSION

This item is provided at the monthly Board of Directors Committee meeting.

DISCUSSION

Mesa Water District's (Mesa Water®) governmental relations program includes monitoring local and regional political issues and policy-setting authorities (i.e., County of Orange, Orange County Local Agency Formation Commission, etc.). An updated Orange County report will be provided at the August 23, 2022 meeting.

FINANCIAL IMPACT

In Fiscal Year 2023, \$260,000 is budgeted for Support Services; \$10,000 has been spent to date.

ATTACHMENTS

None.



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Water Needs*

MEMORANDUM

TO: Board of Directors
FROM: Kaitlyn Norris, Public Affairs Specialist
DATE: August 23, 2022
SUBJECT: Outreach Update

RECOMMENDATION

Receive and file the Outreach Update.

STRATEGIC PLAN

Goal #4: Increase public awareness about Mesa Water and about water.
Goal #6: Provide outstanding customer service.
Goal #7: Actively participate in regional and statewide water issues.

PRIOR BOARD ACTION/DISCUSSION

This item is provided at the monthly Board of Directors Committee meeting.

DISCUSSION

Mesa Water District's (Mesa Water®) outreach program aims to connect Mesa Water with its constituents in order to achieve Goal #4 of the Board of Directors' (Board) Strategic Plan. Outreach activities are also designed to achieve the Strategic Plan goals related to customer service and/or regional water issues involvement by educating and informing the District's constituents about Mesa Water, water issues, and water in general. Mesa Water's constituents include external audiences, such as customers, community members, elected officials, industry colleagues, media, water districts and special districts – as well as internal audiences, such as staff, retirees and Board members.

Upcoming Fiscal Year 2023 Events

1. **Festival of Children Opening Night** – South Coast Plaza Nordstrom Parking Lot, 3333 Bristol Street, Costa Mesa: Wednesday, August 31, 5:30 p.m. – 8:30 p.m.
2. **Yo Amo Mesa Water** – Mesa Water District Parking Lot, 1965 Placentia Avenue Costa Mesa: Date TBD in October 2022

The benefits of Mesa Water's outreach program include:

- Informing constituents about Southern California's perpetual drought, the historical drought facing California, and the importance of developing local and cost-effective sources of safe, reliable water for Mesa Water's service area and the region at large;
- Educating constituents about the importance of water and water stewardship, in order to sustain Southern California's population, quality of life, business, and economy;



- Educating constituents about Mesa Water’s stewardship of ratepayer funds and financial responsibility to fund, invest in, and save for the current and future provision of safe and reliable water for the District’s service area;
- Informing constituents of the District’s infrastructure improvements to ensure water quality and water reliability for its service area;
- Learning from constituents and evolving as a well-informed Board of Directors;
- Promoting water use efficiency to Mesa Water’s customers and community members to help them save water, money, and the environment;
- Ensuring, for public health and safety reasons, that Mesa Water customers and community members identify the District as their water provider and as the source of information about water in emergency situations;
- Supporting Mesa Water’s service area as an actively involved participant in programs that provide added value and benefits to the community;
- Informing the media of Mesa Water’s activities that benefit the District’s customers and community;
- Empowering Mesa Water’s Board and staff with information that will help them provide the best possible service to the District’s customers and community members; and,
- Strengthening Mesa Water’s industry relations to provide opportunities for improving the District’s business and operations -- including the areas of financial and human resources strength, infrastructure and technological innovation, and setting/supporting policies that have a positive impact on Mesa Water’s service area -- so that the District can continue to provide safe, high-quality, reliable, and affordable water to its customers.

FINANCIAL IMPACT

In Fiscal Year 2023, \$904,450 is budgeted for Support Services; \$20,770 has been spent to date.

ATTACHMENTS

None.



Dedicated to
Satisfying our Community's
Water Needs

MEMORANDUM

TO: Board of Directors
FROM: Marwan Khalifa, CPA, MBA, Chief Financial Officer
DATE: August 23, 2022
SUBJECT: Fiscal Year 2022 Fourth Quarter Financial Update

RECOMMENDATION

Receive and file the Fiscal Year 2022 Fourth Quarter Financial Update.

STRATEGIC PLAN

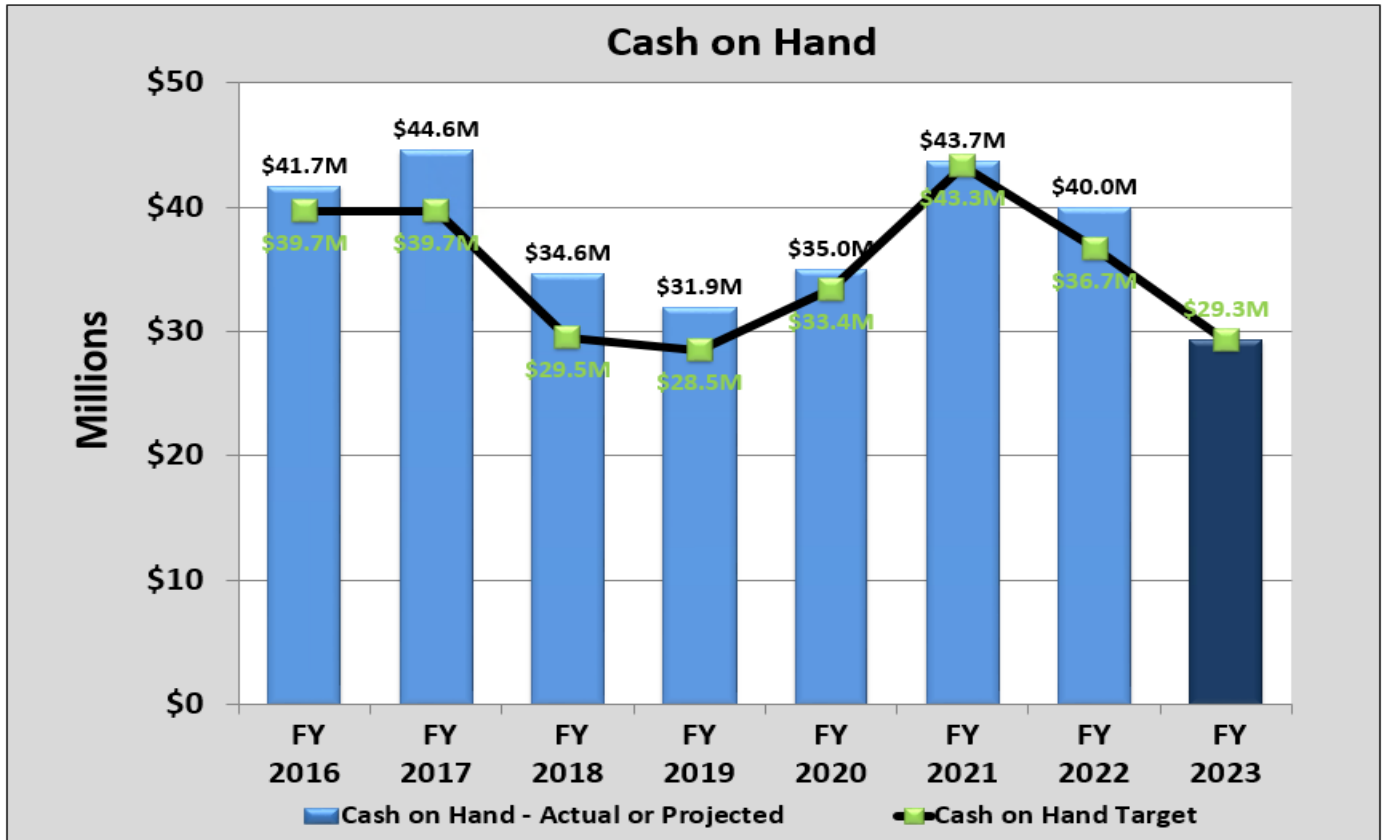
- Goal #1: Provide a safe, abundant, and reliable water supply.
- Goal #2: Practice perpetual infrastructure renewal and improvement.
- Goal #3: Be financially responsible and transparent.

PRIOR BOARD ACTION/DISCUSSION

At its May 13, 2021 meeting, the Board of Directors (Board) approved the Fiscal Year (FY) 2022 Budget.

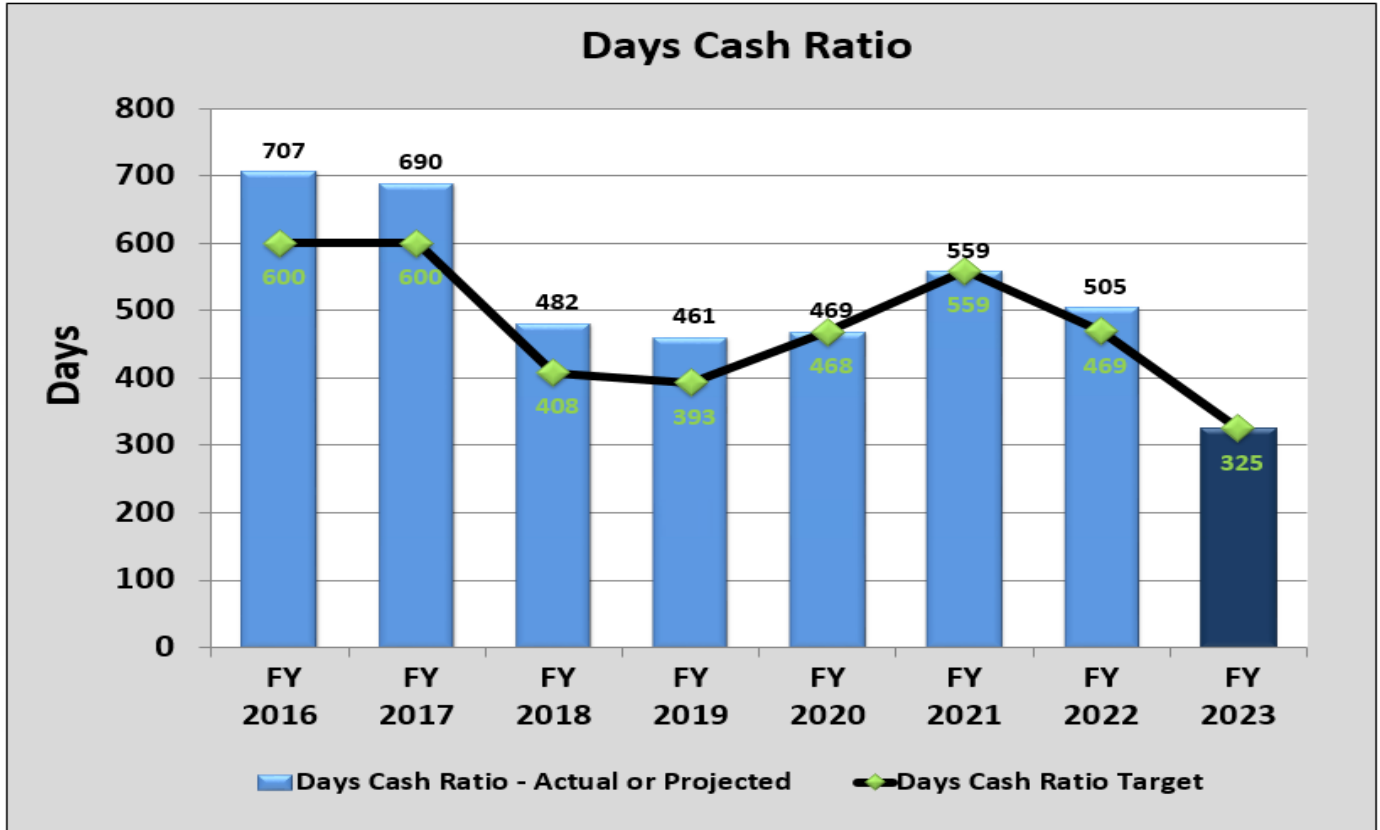
DISCUSSION

Through the fourth quarter of FY 2022, Cash on Hand totaled \$39,991,804. Cash on Hand of \$39,991,804 is above the forecasted year-end cash balance of \$36,690,220.





Additionally, 505 Days Cash is above the forecasted Days Cash estimate of 469 days at year end by 36 days.



The Current Debt Coverage ratio is 210%, which exceeds both requirements for the 2017 & 2020 Revenue Certificates of Participation (COPs) and the Designated Funds Policy. The Debt Coverage ratio goal of the Board is 130% as was established in the Designated Funds Policy.

Water production is nearly even with the budget through the fourth quarter.

The mix of water production between clear and amber water has varied which is depicted in the table below:

	Acre Feet		
	Budgeted	Actual	Variance
Clear Water	12,523	12,560	37
Amber Water	3,741	3,766	25
Import Water	-	3	(3)
Total	16,264	16,329	59



Clear and amber water costs have a combined favorable variance of \$55,308 due to production of water costs being slightly below budgeted. There was no Coastal Pumping Transfer Program (CPTP) budgeted for FY 2022.

Total operating revenues year-to-date have a favorable balance of \$257,266 or approximately -0.6%. This is a result of water consumption being slightly higher than expected. Additionally, operating expenses through the fourth quarter have a favorable balance of \$488,342 or approximately 1.7%. This is predominately a result of lower than budgeted General and Administrative expense and water production costs. As a result, operating income through June 30, 2022 has a favorable balance of \$573,035 or approximately 9.3%.

In addition, non-operating revenue, net of expenses, through the fourth quarter of FY 2022 has an unfavorable balance of \$3,210,726 or approximately -146.8%. This is mostly due to unrealized investment losses.

Overall, the Change in Net Position has an unfavorable balance of \$3,574,962 or approximately -56.3% through June 30, 2022. Almost all of the unfavorable balance is attributed to an approximate \$3,600,000 in reduced value of the PARS pension and OPEB trust due to a fluctuating stock market environment and the withdrawal of funds to pay the District's pension liability. The pension and OPEB trust had a balance of approximately \$18,700,000 as of July 1, 2021 and a balance of approximately \$15,100,000 as of June 30, 2022.

Without the pension and OPEB trust loss the Change in Net Position had a favorable variance of approximately \$25,000 or less than one percent.

ATTACHMENTS

Attachment A: Statement of Revenues, Expenses, and Changes in Net Position for the Twelve Months Ended 6/30/2022



Statement of Revenues, Expenses, and Changes in Net Position For the Twelve Months Ended 6/30/2022

	FY2022 YTD BUDGET	FY2022 YTD ACTUAL	Variance
OPERATING REVENUES:			
Water consumption sales	\$ 30,626,417	\$ 30,894,623	\$ 268,206
Monthly meter service charge	8,910,143	8,913,713	3,570
Recycled water sales	1,439,411	1,470,021	30,610
Concession from governmental agencies (CPTP)	-	-	-
Other charges and services	400,000	354,880	(45,120)
TOTAL OPERATING REVENUES	41,375,971	41,633,237	257,266
OPERATING EXPENSES:			
Imported sources of supply	463,700	406,423	57,277
Basin managed water	35,000	3,200	31,800
Clear water cost	7,960,022	7,893,943	66,079
Amber water cost	3,479,832	3,490,602	(10,770)
Recycled water	1,000,025	920,276	79,749
Transmission and distribution	6,975,463	7,080,917	(105,454)
General and administrative	9,464,124	9,094,460	369,664
TOTAL OPERATING EXPENSES	29,378,166	28,889,824	488,342
OPERATING INCOME BEFORE DEPRECIATION AND AMORTIZATION:	11,997,805	12,743,413	745,608
Depreciation and amortization	(5,850,000)	(6,022,574)	(172,574)
OPERATING INCOME (LOSS)	6,147,805	6,720,840	573,035
NONOPERATING REVENUES / (EXPENSES):			
Bond issuance costs	-	-	-
Investment earnings	450,000 *	(3,738,995) *	(4,188,995)
Interest expense - long term debt	(2,602,900)	(2,603,574)	(674)
Impairment of capital assets & termination of lease	(15,000)	-	15,000
Other non-operating, net	(20,000)	943,943	963,943
NONOPERATING REVENUES / (EXPENSES)	(2,187,900)	(5,398,626)	(3,210,726)
INCOME BEFORE CAPITAL CONTRIBUTIONS	3,959,905	1,322,214	(2,637,691)
CAPITAL CONTRIBUTIONS:			
Capacity and installation charges	1,174,207	591,672	(582,535)
Capital Grant (includes LRP)	616,060	587,232	(28,828)
Developers and others	600,000	274,093	(325,907)
TOTAL CAPITAL CONTRIBUTIONS	2,390,267	1,452,997	(937,270)
CHANGE IN NET POSITION	\$ 6,350,172	\$ 2,775,210	\$ (3,574,962)

* Includes Pension Trust Earnings.



*Dedicated to
Satisfying our Community's
Water Needs*

MEMORANDUM

TO: Board of Directors
FROM: Celeste Carrillo, Senior Public Affairs Specialist
DATE: August 23, 2022
SUBJECT: Mesa Water Education Center Consulting Services

RECOMMENDATION

Approve a one-year contract time extension renewal and \$265,150 with Mad Systems to provide additional exhibits and design elements at the Mesa Water Education Center.

STRATEGIC PLAN

Goal #4: Increase public awareness about Mesa Water and about water.
Goal #6: Provide outstanding customer service.
Goal #7: Actively participate in regional and statewide water issues.

PRIOR BOARD ACTION

At its August 25, 2020 meeting, the Board of Directors (Board) awarded a contract to Mad Systems for the Mesa Water Education Center program, exhibit design, and installation.

At its November 19, 2020 Committee meeting, the Board amended the contract with Mad Systems for additional exhibits and design elements at the Mesa Water Education Center.

At its November 9, 2021 meeting, the Board received a presentation regarding the education and exhibit concepts of the Mesa Water Education Center.

DISCUSSION

The Mesa Water Education Center will provide an interactive experience intended to connect community visitors and students to the concepts of water resource management; regional and statewide water issues; and Mesa Water District's (Mesa Water®) 100% local water story, its history, programs and services. The center will allow staff to host educational programs and tours at the Mesa Water Reliability Facility (MWRF), highlighting the District's mission of reliably providing an abundance of clean, safe water to benefit the public's quality of life.

Staff created a four-year plan to implement approximately 50 annual events at the Mesa Water Education Center by Fiscal Year 2025. Events include, but are not limited to, an elementary school field trip education program; adult programming such as the Water Issues Study Group; public tours, and community partner events.

Since 2020, staff has been collaborating with Mad Systems, a leader in audio visual and interactive system design and installation, to execute the design and installation of the exhibits in the education center.



Due to increased equipment and labor costs that have transpired during construction delays, as well as a revamped fire hydrant exhibit, staff recommends the Board approve a one-year contract time extension renewal and \$265,150 with Mad Systems to provide additional exhibits and design elements at the Mesa Water Education Center.

FINANCIAL IMPACT

Funds for the Mesa Water Education Center exhibit design, fabrication, implementation, and installation are budgeted as a part of the District's Capital Improvement Program Renewal.

ATTACHMENTS

None.

REPORTS:

12. REPORT OF THE GENERAL MANAGER

REPORTS:

13. DIRECTORS' REPORTS AND COMMENTS



*Dedicated to
Satisfying our Community's
Water Needs*

MEMORANDUM

TO: Board of Directors
FROM: Tracy E. Manning, Chief Operating Officer
DATE: August 23, 2022
SUBJECT: Recycled Water Reporting

RECOMMENDATION

This item is provided for information.

STRATEGIC PLAN

Goal #1: Provide a safe, abundant, and reliable water supply.

PRIOR BOARD ACTION/DISCUSSION

None.

INTRODUCTION

Mesa Water District (Mesa Water®) provides over 300 million gallons of recycled water to 39 sites in its service area each year for irrigation purposes. The recycled water is produced at Orange County Water District's (OCWD) Green Acres Project (GAP) reclamation plant. OCWD receives secondary treated wastewater effluent from the Orange County Sanitation District (OCSD) and treats to tertiary levels, then transports it through OCWD's own recycled water distribution system. The GAP wastewater treatment process consists of chemical flocculation with rapid mixing, dual-media filtration and disinfection in a chlorine contact chamber. The GAP reclamation plant has a 7.5 million gallons per day (MGD) design capacity. OCWD wholesales the GAP water to Mesa Water and the cities of Fountain Valley, Huntington Beach, Newport Beach and Santa Ana.

DISCUSSION

Testing Requirements

Water reclamation and reuse standards in the United States are the responsibility of state and local agencies. There are no federal regulations for water reuse. The GAP is regulated under the Water Reclamation Requirements adopted by the Santa Ana Regional Water Quality Control Board (Regional Board) in 2002.

OCWD and other recycled water producers must abide by the provisions in orders issued by the Regional Board. Water quality monitoring requirements are minimal since GAP water (as well as other recycled waters) is not intended for human consumption or contact. Orders from the Regional Board specify process monitoring requirements, specific contact time requirements for chlorine disinfection as well as limits for turbidity and certain total coliform concentrations.

Additionally, a sample is also required annually from four monitoring wells in the recycled water use area. Orders from the Regional Board specify testing for Total Dissolved Solids, Total Hardness, Boron, Electrical Conductivity, Chemical Oxygen Demand, and Total Organic Carbon. OCWD performs additional voluntary monitoring beyond the permit requirements and provides the data to the Regional Board annually.



Reporting Requirements

OCWD is required to submit quarterly monitoring reports and an annual report to the Regional Board. The quarterly report includes the list of users serviced during the quarter, amount of recycled water delivered to each user, the use of the recycled water, and any non-compliance events. An example of the quarterly report is found in Attachment A. The annual report includes tabular and graphical summaries of the monitoring data, compliance record, corrective actions (if any), analytical methods used, operator certification, and a summary of the data presented in the quarterly report. An example of a GAP annual report is found in Attachment B. There is no requirement for recycled water data to be sent to their customers/users; however, OCWD voluntarily provides an annual water quality summary to the participating retailers. An example of the annual water quality summary for GAP water is found in Attachment C.

FINANCIAL IMPACT

None.

ATTACHMENTS

Attachment A: OCWD Green Acres Treatment Project Quarterly Report

Attachment B: OCWD 2021 Green Acres Project Annual Report

Attachment C: OCWD Green Acres Treatment Plant Treated Water Quality

DIRECTORS

DENIS R. BILODEAU, P.E.
CATHY GREEN
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TRI TA
BRUCE WHITAKER
ROGER C. YOH, P.E.



ORANGE COUNTY WATER DISTRICT
ORANGE COUNTY'S GROUNDWATER AUTHORITY

OFFICERS

President
STEPHEN R. SHELDON

First Vice President
CATHY GREEN

Second Vice President
TRI TA

General Manager
MICHAEL R. MARKUS, P.E., D.WRE

February 15, 2022

Ms. Jayne Joy, Executive Officer
 California Regional Quality Control Board
 Santa Ana Region
 3737 Main Street, Suite 500
 Riverside, CA 92501-3348

Report Order No. R8-2002-0077
 Green Acres Treatment Project

The Orange County Water District (OCWD) Green Acres treatment facility (GAP) operated well and produced water meeting all regulatory requirements during the 2021 4th Quarter, October 1 through December 31, 2021.

GAP treatment and filtration processes maintained an 87.3% online factor and the GAP treatment process averaged a 96.8% recovery rate during the 4th Quarter operating period.

The GAP high-pressure effluent pumps (HPEPs) and distribution system maintained a 99.7% online factor during the 4th Quarter. On November 9 the Irvine Ranch Water District (IRWD) took over GAP supply and demand briefly (7.3-hours) for GWRS Final Expansion contractor commissioning of a new GAP recycled water bypass discharge connection. This new discharge connection is designed to be utilized by the IRWD when they are providing recycled water to the GAP end-users during winter periods and need to bypass their excess tertiary effluent flows without having to use the Orange County Sanitation District's (OC San) ocean outfall system. IRWD has traditionally utilized an ocean outfall bypass connection located at OC San's Plant #2. The new bypass connection commissioned on November 9 is located on the OC San's Plant #1's secondary effluent junction box #4 (SEJB-4) structure. SEJB-4 sends flows from Plant #1's activated sludge secondary treatment processes #1 (AS-1) to the OCWD's GWRS influent screening facility. The new bypass connection will be able to send IRWD's excess / bypassed recycled water to the GWRS system for beneficial re-use instead of sending it directly to OC San Plant #2's ocean outfall. If IRWD's excess bypass flows being sent through the new connection at Plant #1's SEJB-4 cannot be utilized by the GWRS, they will overflow the GWRS screening facility's overflow weir and go to the OC San's Plant #1 / Plant #2 interplant ocean outfall system. This new discharge connection point is not anticipated to be available for full time use until the end of 2022.

The GAP treatment process provided 89.1% of the water distributed to the GAP end-users. A total of 10.9% of the distributed recycled water flows came from make-up resources in the following proportions: GWRS MF Effluent = 0%; GWRS UV Product = 7.8%; and groundwater deep wells = 3.1%.

During the 4th Quarter the GAP influent turbidity averaged 1.48 NTU while the GAP filters combined daily effluent turbidity averaged 0.83 NTU.

The GAP dual-media filter backwashes continued to be targeted to be performed on 72-hour filter runtime intervals. A total of 76 filter backwashes were performed during the 4th Quarter. Actual filter runtimes between backwash intervals averaged 68.1 hours and filter head losses averaged 3.9 feet at 650 gpm prior to backwashes. The GAP's four dual-media filters averaged 2.93 million gallons (MG) of production each between their backwash intervals. During the 4th Quarter the GAP influent received an average chlorine dose of 11.0 mg/L and an average coagulant (alum) dose rate of 1.9 mg/L. The Chlorine Contact Basin Influent (CCBI) average chlorine dosage rate was 31.1 mg/L.

During the 4th Quarter the GAP chlorine contact basin disinfection contact time (CT) averaged 1816 mg-min/L. The Chlorine Contact Basin Effluent (CCBE) average minimum residual was 5.1 mg/L, the maximum residual averaged 10.2 mg/L, and the average residual was maintained at 7.4 mg/L. All 4th Quarter 2021 daily CCBE coliform grab samples provided negative results (<0.2).

On October 7 filters 1 and 2 registered daily 24-hour average NTUs above 2.0. The GAP system began receiving high influent turbidity of 6 NTU feed water from OC San for 5 hours (0200 hrs – 0700 hrs) after they lost the ability to run a Return Activated Sludge (RAS) pump, causing online filter effluents to hit peaks of 4 NTU requiring multiple backwashes. After backwashing, filters 1 and 2 were taken offline due to low system demand, limiting their daily 24-hour period runtime. The resulting effect was filters 1 and 2's having elevated turbidity averages for the day due to only being in operation during the high turbidity period. In comparison, filter 3 which also experienced the high filter effluent turbidity and required immediate backwashing. However, unlike filters 1 and 2, filter 3 remained online after the high influent turbidity period for the duration of the day and this resulted in a daily 24-hour turbidity average below the 2.0 NTU limit.

On November 1 staff performed annual preventative maintenance activities on the motors for both Santa Ana Reservoir (SAR) pumps.

On November 6 staff performed annual oil changes for both rapid mixers.

On November 7 staff performed annual oil changes for all three GAP influent pump motors.

On November 8 staff performed an annual oil change for GAP backwash pump A01.

On November 9 staff replaced the GAP influent flow transmitter.

On November 10 staff replaced the hi-hi level float switch for the (SAR).

On December 3 staff performed 3-month PMs on the air scour blower system.

On December 4 staff performed annual PM activities for the air compressor system.

On December 5 staff performed annual oil changes for all three GAP high pressure effluent pumps (HPEPs).

On December 15 staff performed 3-month preventative maintenance on chlorine contact basin influent and effluent chlorine residual analyzers.

The GAP treatment processes were secured 41 times for a total of 281.40 hours during the 4th Quarter. Three scheduled shutdowns occurred for contractor construction and commissioning work for the new Irvine Ranch Water District (IRWD) GAP bypass connection

Ms. Jayne Joy, Executive Officer
February 15, 2022
Page 3 of 4

described previously in this letter. The events occurred on November 1, November 9, and December 9.

One unexpected treatment process shutdown occurred briefly November 12 due to limited GAP influent supply flow availability that caused the GAP's influent pump station to shutdown on low suction. The GAP treatment process was intentionally shutdown for brief periods thirty-seven times during the 4th Quarter due to low demand / high storage periods. Five events occurred in October, four events in November, and twenty-eight events in December.

As derived from OCWD monthly end-user flow meter recordings, the following are the amounts of recycled water delivered to the Green Acres Project end-users by the OCWD during the October 1 through December 31, 2021 4th Quarter operating period:

October 2021	97.85 million gallons
November 2021	99.58 million gallons
December 2021	63.37 million gallons

Required water quality data has been enclosed with the letter, as well as tables showing the total water delivered to each end user site for the dates of October 1 through December 31, 2021.

If you have any questions, please contact Mehul Patel at (714) 378-8209 or Tyson Neely at (714) 378-3241.

Very truly yours,



Mehul V. Patel, P.E.
Executive Director of Operations/GWRS

MVP/jlk

Enclosures

cc: Oliver Pacifico - oliver.pacifico@waterboards.ca.gov

Ms. Jayne Joy, Executive Officer
February 15, 2022
Page 4 of 4

I certify under penalty of law that I have personally examined, and I am familiar with the information submitted in this document and all attachments thereto; 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.

Executed on the 15th day of February at Fountain Valley, CA



Mehul V. Patel, P.E.
Executive Director of Operations/GWRS

GREEN ACRES PROJECT SAMPLES
Order No. R8-2002-0077
4th Quarter 2021

Parameter:	Filtration EFF Turbidity	HPEP pH	CCBE Total Coliform	CCBE Total Coliform	HPEP EC	HPEP TDS	CCBE Minimum Cl ₂ Residual Total	CCBE Maximum Cl ₂ Residual Total	CCBE Contact Time	HPEP TOC	HPEP Total Hardness	HPEP COD	HPEP Effluent Flow
Permit Requirements	NTU - 24hr avg	Units - daily grab	MPN - daily grab	MPN - 7 day median	µohms/cm - daily grab	mg/L - monthly grab	mg/L - 24hr min	mg/L - 24hr max	mg-min/L - 24hr min	mg/L - monthly grab	mg/L - monthly grab	mg/L - monthly grab	mgd - 24hr total
10/1/2021	0.57	7.4	< 0.2	< 0.2	1,720		5.7	9.1	1,527				4.16
10/2/2021	0.60	7.4	< 0.2	< 0.2	1,680		6.7	9.1	1,705				4.42
10/3/2021	0.60	7.4	< 0.2	< 0.2	1,690		3.0	9.7	1,446				3.71
10/4/2021	0.61	7.6	< 0.2	< 0.2	1,630		5.9	12.0	1,466				6.47
10/5/2021	0.70	7.5	< 0.2	< 0.2	1,630		6.1	10.2	1,523				3.12
10/6/2021	0.65	7.8	< 0.2	< 0.2	1,330	806	1.6	8.2	730	8.5	241	21.0	3.30
10/7/2021	1.55	7.6	< 0.2	< 0.2	1,600		3.9	8.1	1,353				3.58
10/8/2021	0.71	7.6	< 0.2	< 0.2	1,650		4.3	6.5	1,009				2.42
10/9/2021	0.73	7.5	< 0.2	< 0.2	1,590		0.8	10.6	1,812				1.26
10/10/2021	0.51	7.4	< 0.2	< 0.2	1,590		7.2	12.0	3,044				2.11
10/11/2021	0.60	7.6	< 0.2	< 0.2	1,600		5.5	10.7	1,873				2.67
10/12/2021	0.66	7.6	< 0.2	< 0.2	1,660		5.3	10.9	1,506				3.40
10/13/2021	0.64	7.6	< 0.2	< 0.2	1,680		6.1	10.9	1,193				5.37
10/14/2021	0.67	7.5	< 0.2	< 0.2	1,670		6.9	11.0	1,480				5.59
10/15/2021	0.66	7.5	< 0.2	< 0.2	1,720		6.2	8.9	1,834				4.20
10/16/2021	0.73	7.4	< 0.2	< 0.2	1,680		2.0	7.3	1,218				2.70
10/17/2021	0.77	7.3	< 0.2	< 0.2	1,580		5.4	10.2	1,727				3.74
10/18/2021	0.74	7.6	< 0.2	< 0.2	1,660		7.5	14.0	1,608				4.35
10/19/2021	0.84	7.6	< 0.2	< 0.2	1,500		5.9	9.1	1,849				3.97
10/20/2021	1.12	7.5	< 0.2	< 0.2	1,690		4.4	9.5	1,402				3.96
10/21/2021	1.12	7.4	< 0.2	< 0.2	1,680		4.2	8.1	930				4.63
10/22/2021	1.06	7.4	< 0.2	< 0.2	1,640		4.3	6.4	1,141				3.98
10/23/2021	1.05	7.4	< 0.2	< 0.2	1,640		4.1	7.3	1,272				2.36
10/24/2021	1.25	7.4	< 0.2	< 0.2	1,660		3.1	7.4	1,426				1.58
10/25/2021	1.03	7.5	< 0.2	< 0.2	1,690		3.0	8.0	1,339				1.86
10/26/2021	1.08	7.5	< 0.2	< 0.2	1,570		2.7	9.7	1,207				1.66
10/27/2021	1.00	7.4	< 0.2	< 0.2	1,440		6.2	11.3	2,292				2.02
10/28/2021	1.09	7.4	< 0.2	< 0.2	1,570		3.6	8.3	1,155				2.80
10/29/2021	0.86	7.3	< 0.2	< 0.2	1,670		1.7	7.8	708				3.37
10/30/2021	0.78	7.4	< 0.2	< 0.2	1,620		4.8	7.0	1,507				2.90
10/31/2021	0.81	7.4	< 0.2	< 0.2	1,640		4.5	9.5	2,172				2.29

GREEN ACRES PROJECT SAMPLES

Order No. R8-2002-0077

4th Quarter 2021

Parameter:	Filtration EFF Turbidity	HPEP pH	CCBE Total Coliform	CCBE Total Coliform	HPEP EC	HPEP TDS	CCBE Minimum Cl ₂ Residual Total	CCBE Maximum Cl ₂ Residual Total	CCBE Contact Time	HPEP TOC	HPEP Total Hardness	HPEP COD	HPEP Effluent Flow
Permit Requirements	NTU - 24hr avg	Units - daily grab	MPN - daily grab	MPN - 7 day median	µohms/cm - daily grab	mg/L - monthly grab	mg/L - 24hr min	mg/L - 24hr max	mg-min/L - 24hr min	mg/L - monthly grab	mg/L - monthly grab	mg/L - monthly grab	mgd - 24hr total
11/1/2021	0.89	7.6	< 0.2	< 0.2	1,530		5.8	13.0	2,073				3.04
11/2/2021	0.89	7.4	< 0.2	< 0.2	1,590		5.7	10.5	1,964				2.45
11/3/2021	0.87	7.6	< 0.2	< 0.2	1,560	914	4.4	7.6	1,291	11.3	294	36.0	2.59
11/4/2021	0.87	7.5	< 0.2	< 0.2	1,640		4.5	16.0	1,422				3.29
11/5/2021	0.84	7.4	< 0.2	< 0.2	1,600		4.2	6.1	1,365				3.02
11/6/2021	0.96	7.4	< 0.2	< 0.2	1,620		4.1	6.8	1,046				2.70
11/7/2021	0.92	7.2	< 0.2	< 0.2	1,610		3.0	12.0	1,359				2.42
11/8/2021	0.94	7.5	< 0.2	< 0.2	1,690		5.1	8.4	1,432				2.91
11/9/2021	1.11	7.5	< 0.2	< 0.2	1,710		4.1	14.9	1,473				2.13
11/10/2021	1.11	7.4	< 0.2	< 0.2	1,600		5.3	15.7	1,409				5.86
11/11/2021	0.90	7.4	< 0.2	< 0.2	1,680		5.5	9.4	2,143				3.05
11/12/2021	0.94	7.3	< 0.2	< 0.2	1,710		4.6	8.4	1,590				3.50
11/13/2021	0.84	7.2	< 0.2	< 0.2	1,710		5.0	7.9	972				3.09
11/14/2021	0.77	7.3	< 0.2	< 0.2	1,680		5.2	9.9	1,548				3.33
11/15/2021	0.78	7.4	< 0.2	< 0.2	1,640		6.2	8.8	1,822				3.99
11/16/2021	0.79	7.5	< 0.2	< 0.2	1,660		5.4	10.3	1,884				2.56
11/17/2021	0.73	7.5	< 0.2	< 0.2	1,590		5.8	12.2	1,845				4.02
11/18/2021	0.66	7.4	< 0.2	< 0.2	1,720		6.2	9.3	1,327				3.90
11/19/2021	0.67	7.4	< 0.2	< 0.2	1,640		5.8	10.0	2,312				2.83
11/20/2021	0.79	7.3	< 0.2	< 0.2	1,590		5.0	6.8	1,598				2.87
11/21/2021	0.93	7.3	< 0.2	< 0.2	1,620		4.6	8.1	1,108				3.08
11/22/2021	1.04	7.5	< 0.2	< 0.2	1,490		5.2	15.7	1,119				3.91
11/23/2021	0.97	7.5	< 0.2	< 0.2	1,630		5.8	9.2	1,599				3.33
11/24/2021	1.19	7.5	< 0.2	< 0.2	1,610		5.8	10.0	1,125				5.36
11/25/2021	1.37	7.2	< 0.2	< 0.2	1,720		4.1	11.5	1,786				2.79
11/26/2021	0.85	7.3	< 0.2	< 0.2	1,680		5.6	9.9	2,004				4.09
11/27/2021	0.81	7.4	< 0.2	< 0.2	1,310		4.5	9.3	1,609				3.00
11/28/2021	0.95	7.3	< 0.2	< 0.2	1,560		6.0	9.1	1,389				3.27
11/29/2021	0.70	7.5	< 0.2	< 0.2	1,710		6.0	15.6	1,877				2.96
11/30/2021	0.71	7.4	< 0.2	< 0.2	1,620		6.0	9.6	1,876				3.03

GREEN ACRES PROJECT SAMPLES
Order No. R8-2002-0077
4th Quarter 2021

Parameter:	Filtration EFF Turbidity	HPEP pH	CCBE Total Coliform	CCBE Total Coliform	HPEP EC	HPEP TDS	CCBE Minimum Cl ₂ Residual Total	CCBE Maximum Cl ₂ Residual Total	CCBE Contact Time	HPEP TOC	HPEP Total Hardness	HPEP COD	HPEP Effluent Flow
Permit Requirements	NTU - 24hr avg	Units - daily grab	MPN - daily grab	MPN - 7 day median	µohms/cm - daily grab	mg/L - monthly grab	mg/L - 24hr min	mg/L - 24hr max	mg-min/L - 24hr min.	mg/L - monthly grab	mg/L - monthly grab	mg/L - monthly grab	mgd - 24hr total
12/1/2021	0.63	7.4	< 0.2	< 0.2	1,650		5.1	9.2	945				3.67
12/2/2021	0.66	7.5	< 0.2	< 0.2	1,710		5.6	8.3	1,422				3.36
12/3/2021	0.71	7.3	< 0.2	< 0.2	1,600		5.3	7.7	1,948				2.90
12/4/2021	0.77	7.3	< 0.2	< 0.2	1,600		4.8	9.8	2,088				2.81
12/5/2021	0.75	7.3	< 0.2	< 0.2	1,610		5.0	9.7	1,923				2.38
12/6/2021	0.85	7.5	< 0.2	< 0.2	1,680		4.7	12.1	2,169				1.92
12/7/2021	0.78	7.3	< 0.2	< 0.2	1,630		4.6	15.4	1,832				2.20
12/8/2021	0.67	7.4	< 0.2	< 0.2	1,430	846	4.4	8.4	2,091	9.5	259	26.0	2.37
12/9/2021	0.73	7.4	< 0.2	< 0.2	1,510		4.2	9.0	1,145				1.57
12/10/2021	0.54	7.4	< 0.2	< 0.2	1,680		4.6	9.2	2,337				1.68
12/11/2021	0.63	7.2	< 0.2	< 0.2	1,570		5.0	8.3	1,712				1.30
12/12/2021	0.69	7.2	< 0.2	< 0.2	1,560		4.6	7.9	2,108				1.25
12/13/2021	0.84	7.3	< 0.2	< 0.2	1,520		4.4	8.3	1,963				1.21
12/14/2021	1.21	7.3	< 0.2	< 0.2	1,580		5.9	9.2	3,666				0.79
12/15/2021	0.84	7.3	< 0.2	< 0.2	1,700		6.1	9.8	2,075				0.80
12/16/2021	0.79	7.2	< 0.2	< 0.2	1,490		1.8	14.6	830				1.04
12/17/2021	0.74	7.1	< 0.2	< 0.2	1,660		7.1	12.1	3,123				0.81
12/18/2021	0.67	7.1	< 0.2	< 0.2	1,650		7.4	15.4	3,761				0.91
12/19/2021	0.75	7.1	< 0.2	< 0.2	1,720		6.8	11.4	2,615				0.95
12/20/2021	0.89	7.4	< 0.2	< 0.2	1,700		6.3	9.4	3,065				1.06
12/21/2021	0.84	7.3	< 0.2	< 0.2	1,580		5.4	12.3	2,482				1.06
12/22/2021	0.82	7.3	< 0.2	< 0.2	1,660		6.1	12.9	2,913				0.95
12/23/2021	0.82	7.2	< 0.2	< 0.2	1,510		5.7	9.3	1,487				1.08
12/24/2021	0.84	7.1	< 0.2	< 0.2	1,710		4.0	10.0	2,007				1.00
12/25/2021	0.72	7.2	< 0.2	< 0.2	1,660		4.8	9.6	2,132				0.99
12/26/2021	0.83	7.3	< 0.2	< 0.2	1,020		5.9	8.6	2,373				0.98
12/27/2021	0.82	7.5	< 0.2	< 0.2	1,290		6.8	12.4	3,260				0.97
12/28/2021	0.66	7.3	< 0.2	< 0.2	1,510		6.7	9.7	3,117				0.85
12/29/2021	0.72	7.3	< 0.2	< 0.2	1,610		3.3	12.7	1,658				0.73
12/30/2021	0.76	7.2	< 0.2	< 0.2	1,640		10.7	13.5	4,161				0.75
12/31/2021	0.77	7.2	< 0.2	< 0.2	1,720		10.7	19.0	5,094				0.74

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ORANGE COUNTY WATER DISTRICT
ORANGE COUNTY'S GROUNDWATER AUTHORITY

February 28, 2022

Ms. Jayne Joy, Executive Officer
California Regional Quality Control Board
Santa Ana Region
3737 Main Street, Suite 500
Riverside, California 92501-3348

2021 Green Acres Project
Annual Report
Order No. R8-2002-0077

During calendar year 2021 the Orange County Water District's (OCWD) Green Acres Project (GAP) recycled water distribution system had a total of 103 flow meters. Four of these meters remained inactive during calendar year 2021. There were a total of 91 metered end-user sites and a total of 99 flow meters (7 sites have multiple flow meters).

The OCWD provided 99.9% of the recycled water produced for the GAP end users during the January 1 – December 31, 2021 operating period. On November 9, 2021, the OCWD requested the Irvine Ranch Water District (IRWD) to exercise the inter-agency agreement to provide GAP end user supply and demand for a brief 7.3-hour period so the construction contractor building the OCWD's Groundwater Replenishment System's Final Expansion (GWRSFE) could perform commissioning exercises on a new GAP distribution bypass connection they had constructed at the Orange County Sanitation District (OCSD) Plant No. 1's secondary effluent junction box #4 (SEJB-4). The new bypass connection was made to enable IRWD the capability to bypass their excess storage flows to OCSD Plant No. 1's secondary effluent / GWRS influent flow streams when they (IRWD) are providing recycled water to the GAP end users during periods of excess precipitation that occur in winter seasons. Historically, IRWD has utilized an ocean outfall connection at OCSD Plant No. 2 to bypass their excess flows during the GAP's low end user demand periods which typically occur in winter seasons. Apart from this 7.3-hour commissioning period, the OCWD's GAP treatment system provided all recycled water flows during January 1 – December 31, 2021.

During calendar year 2021 the OCWD GAP treatment and distribution system delivered a total of 4318.19 acre-feet (1406.58 MG) of recycled water to its end users.

During the GAP's January 1 – December 31, 2021 operating period the GAP treatment process and gravity filters were operated as the primary resource for recycled water production. GWRS UV Product (UVP) and groundwater deep wells continued to be used as supplemental water

resources and salt reduction control. No GWRS microfilter effluent (MFE) was used during calendar year 2021.

The volumes used during calendar year 2021 are summarized in the table below.

2021	Volume (MG)	Volume (AF)	% of total flow produced
GAP gravity filters	1260.74	3870.42	89.6
GWRS MFE	0.00	0.00	0.0
GWRS UVP	80.74	247.90	5.7
Deep wells 1, 3, & 4	65.10	199.87	4.6

GAP treatment and distribution processes operated very well during the 2021 operating period. During the GAP's 2021 operating period the secondary effluent feedwater from the OCS D Plant No. 1 averaged 1.73 NTU; 1661 µS/cm; and 7.26 pH.

Chlorine dose to GAP influent averaged 10.6 mg/L and coagulant dosing averaged 1.8 mg/L (aluminum sulfate or 'alum' is the coagulant type used).

During the 2021 operating periods GAP filter backwashes were scheduled to be performed on 72-hour runtime intervals. During 2021 filter backwashes occurred after an average runtime of 65.6 hours and 5.4 feet of headloss at 740 gpm prior to backwashes. The four GAP dual-media filters averaged 3.09 million gallons (MG) of production each between their backwash intervals.

During the 2021 operating period the GAP's filtered effluent water turbidity averaged 0.73 NTU. No combined filter effluent turbidity violations occurred.

During the 2021 operating period the chlorine contact basin influent (CCBI) chlorine dose was maintained at an average of 30.4 mg/L. The chlorine contact basin effluent (CCBE) average chlorine residual was 7.7 mg/L, the average minimum chlorine residual was 5.5 mg/L and the average maximum was 10.5 mg/L.

During the 2021 operating period the GAP chlorine contact basin (CCB) averaged a minimum contact time (CT) of 1665 mg-min/L and at no time fell below the 450 mg-min/L Permit limit.

Two daily grab coliform samples collected from the CCBE flow stream during the GAP 2021 operating period exceeded the MPN limit of 2.2 per 100 milliliters. A description of those events is as follows.

- The first event occurred June 11, 2021. The daily coliform sample showed positive for total coliform of 29.9 MPN / 100 mls. The fecal coliform results were negative. GAP operation was normal during the sampling period with the influent and effluent chlorine contact basin analyzers and calculated contact time (CT) values reading within normal range. Staff believes a sampling error (operations), or sample handling error (lab chemist) occurred to cause the high total coliform result. In response to the event, operations staff received refresher training in proper sampling and handling procedures.

- The second event occurred August 30, 2021. The daily coliform sample showed positive for total coliform of 77.1 MPN / 100 mls on August 30, 2021. The fecal coliform results were negative. The root cause was inconclusive. However, operations had been experiencing chlorine residual control issues around the time the daily grab coliform sample was collected (0600 hours). While investigating the incident OCS D Plant No. 1 operations staff confirmed that their activated sludge processes (AS-1) feeding the GAP influent pump station had been operating in full nitrification without any process issues. Considering the low ammonia content of the GAP feed water source, it was difficult to exclusively correlate the chlorine residual control issues to water quality variables or the incident possibly being related to a chlorine breakpoint issue. At no point during the 24-hour operating period did the chlorine contact basin's Contact Time (CT) drop below the Permit limit of 450 mg-min/L. The potential of contamination occurring during the collection of the grab sample or handling of the sample by Lab personnel during analysis, could not be verified as an influence to the extraordinary coliform count.

Neither event resulted in the 7-day median to exceed the 2.2 MPN / 100 mls permit limit.

During the 2021 operating period the GAP treatment and disinfection processes used 18.87 tons of 49% Aluminum Sulfate (alum) for pre-filter coagulation and 1568.96 tons of 12.5% sodium hypochlorite (bleach) for pre and post filtration chlorination / disinfection.

On January 19, 2021 GAP filter #1 and #2 were secured for scheduled filter surveillances by Environmental Resources Service, Inc. (ERS, Inc.). Then, GAP filters #3 and #4 received their filter surveys on January 20. This was the first time the GAP filters had been surveyed since all four filters received full media change-outs during January – February 2017. Operations normally schedules GAP filter surveys on 2 – 3 year interval and will plan to schedule their next surveys in approximately two years (January 2023). The ERS Inc. survey report provided acceptable results during the evaluation of filter surfaces, wall conditions, mechanical systems and backwash cycles, the effective size of media, and media coefficient uniformity. However, media depth measurements for filters #1 and #2 showed to be 10 – 12” low on anthracite and only filter #3 showed a definitive anthracite-to-sand interface. No media additions were scheduled based on the results since all four filters continue to produce exceptional filter effluent quality.

On March 3 a minor GAP distribution system leak was reported in Costa Mesa located on Avenue of the Arts, just north of Anton Boulevard. The leak appeared to have occurred while the Costa Mesa Fire Department responded to reports of a car striking a fire hydrant. While the fire department was trying to isolate water supply to the broken fire hydrant their crews mistakenly closed a blow-off valve on the GAP distribution system and broke it. Emergency repairs on the broken valve were completed on March 9. The OCWD GAP distribution piping maintenance staff and Engineering Department estimated less than 50,000 gallons of GAP recycled water was spilled. The internal spill report is on file at the District and is available for review upon request.

On October 7 GAP filter #1's daily average effluent turbidity was 2.03, and filter #2's daily average effluent turbidity was 2.14. However, the daily average filter effluent turbidities for filters #2 (1.18 NTU) and filter #4 (0.86 NTU) remained below the Permit limit of 2.0 NTU.

Ms. Jayne Joy, Executive Officer

February 28, 2022

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The combined 24-hour average filter effluent turbidity for all four filters on October 7 was 1.55 NTU. The high filter effluent turbidity events occurred after the GAP treatment plant began receiving high influent turbidity ($6\pm$ NTU) feed water from OCSD Plant No. 1 over a 5-hour period (0200 – 0700 hours). During OCWD operations initial investigations OCSD Plant No. 1 operations confirmed a secondary clarifier's return activated sludge (RAS) pump had failed and the affected clarifier's sludge blanket had risen. This in turn ended up causing excess solids loading in the activated sludge processes secondary effluent stream feeding the GAP influent pump station.

During the event online GAP filter effluent turbidity briefly rose as high as 4 NTU. The overloaded filter conditions were corrected by OCSD operations resolving their RAS pump issues and by OCWD operations performing multiple filter backwashes.

Included in this report you will find tables and graphs showing the plant water quality / lab data, monitoring well data, end user flow data, and plant operator certifications. District staff, along with the end users, completed the inspection of all sites using recycled water from the GAP system. All sites were found to be in compliance. The completed inspection reports are on file at the District.

If you have any questions, please contact Mehul Patel at (714) 378-8209 or Tyson Neely at (714) 378-3241.

Very truly yours,



Mehul V. Patel, P.E.
Executive Director of Operations/GWRS

MVP/jlk

cc: Oliver Pacifico, DDW – District Engineer

Ms. Jayne Joy, Executive Officer
February 28, 2022
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I certify under penalty of law that I have personally examined, and I am familiar with the information submitted in this document and all attachments thereto; 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.

Executed on the 28th day of February at Fountain Valley, CA

Mehul V. Patel

Mehul V. Patel, P.E.

Executive Director of Operations/GWRS

GREEN ACRES PROJECT SAMPLES
Order No. R8-2002-0077
2021 Annual Lab Data

Parameter:	Filtration EFF Turbidity	HPEP pH	CCBE Total Coliform	CCBE Total Coliform	HPEP EC	HPEP TDS	CCBE Minimum Cl ₂ Residual Total	CCBE Maximum Cl ₂ Residual Total	CCBE Contact Time	HPEP TOC	HPEP Total Hardness	HPEP COD	HPEP Effluent Flow
Permit Requirements	NTU - 24hr avg	Units - daily grab	MPN - daily grab	MPN - 7 day median	µohms/cm - daily grab	mg/L - monthly grab	mg/L - 24hr min	mg/L - 24hr max	mg-min/L - 24hr min	mg/L - monthly grab	mg/L - monthly grab	mg/L - monthly grab	mgd - 24hr total
1/1/2021	0.53	7.3	< 0.2	< 0.2	1660		6.6	9.0	3213				1.21
1/2/2021	0.54	7.2	< 0.2	< 0.2	1610		5.9	10.1	1807				1.33
1/3/2021	0.67	7.2	< 0.2	< 0.2	1650		6.7	9.1	2129				1.35
1/4/2021	0.69	7.2	< 0.2	< 0.2	1650		6.8	10.6	3586				1.74
1/5/2021	0.71	7.3	< 0.2	< 0.2	1500		7.4	10.1	1835				1.94
1/6/2021	0.72	7.3	< 0.2	< 0.2	1540	941	5.7	8.2	1960	10.8	274	16	2.29
1/7/2021	0.78	7.2	< 0.2	< 0.2	1550		5.3	8.5	2620				1.89
1/8/2021	0.60	7.3	< 0.2	< 0.2	1710		4.9	7.0	2453				1.79
1/9/2021	0.63	7.3	< 0.2	< 0.2	1550		4.5	7.8	1747				1.97
1/10/2021	0.66	7.4	< 0.2	< 0.2	1640		6.6	9.9	2789				1.76
1/11/2021	0.68	7.3	< 0.2	< 0.2	1570		6.5	8.5	1717				2.07
1/12/2021	0.78	7.2	< 0.2	< 0.2	1620		6.8	9.2	2513				1.81
1/13/2021	0.51	7.2	< 0.2	< 0.2	1440		5.5	8.5	2690				1.75
1/14/2021	0.53	7.2	< 0.2	< 0.2	1650		6.6	9.6	1638				2.50
1/15/2021	0.62	7.4	< 0.2	< 0.2	1600		6.4	8.4	1612				2.99
1/16/2021	0.58	7.4	< 0.2	< 0.2	1600		6.3	8.5	1373				3.19
1/17/2021	0.44	7.5	< 0.2	< 0.2	1710		6.4	9.1	2108				2.33
1/18/2021	0.64	7.4	< 0.2	< 0.2	1420		6.6	11.1	2090				2.74
1/19/2021	0.62	7.4	< 0.2	< 0.2	1540		8.2	17.3	2647				1.79
1/20/2021	0.61	7.3	< 0.2	< 0.2	1430		6.2	9.6	1520				3.66
1/21/2021	0.67	7.3	< 0.2	< 0.2	1710		5.4	9.3	1528				2.64
1/22/2021	0.57	7.4	< 0.2	< 0.2	1590		5.4	7.7	1964				2.02
1/23/2021	0.61	7.4	< 0.2	< 0.2	1680		5.5	9.4	2543				2.01
1/24/2021	0.66	7.4	< 0.2	< 0.2	1660		6.2	10.6	3108				1.75
1/25/2021	0.72	7.4	< 0.2	< 0.2	1610		5.1	8.2	1287				1.45
1/26/2021	0.76	7.3	< 0.2	< 0.2	1650		7.1	11.2	2584				1.14
1/27/2021	0.74	7.3	< 0.2	< 0.2	1620		7.9	10.0	2435				1.06
1/28/2021	0.82	7.3	< 0.2	< 0.2	1600		7.0	8.5	2996				1.18
1/29/2021	0.76	7.3	< 0.2	< 0.2	1600		5.7	13.6	2945				1.16
1/30/2021	0.79	7.3	< 0.2	< 0.2	1680		7.9	10.9	2328				1.25
1/31/2021	0.94	7.3	< 0.2	< 0.2	1680		8.7	11.8	4042				0.94

GREEN ACRES PROJECT SAMPLES
Order No. R8-2002-0077
2021 Annual Lab Data

Parameter:	Filtration EFF Turbidity	HPEP pH	CCBE Total Coliform	CCBE Total Coliform	HPEP EC	HPEP TDS	CCBE Minimum Cl ₂ Residual Total	CCBE Maximum Cl ₂ Residual Total	CCBE Contact Time	HPEP TOC	HPEP Total Hardness	HPEP COD	HPEP Effluent Flow
Permit Requirements	NTU - 24hr avg.	Units - daily grab	MPN - daily grab	MPN - 7 day median	µohms/cm - daily grab	mg/L - monthly grab	mg/L - 24hr min	mg/L - 24hr max	mg-min/L - 24hr min	mg/L - monthly grab	mg/L - monthly grab	mg/L - monthly grab	mgd - 24hr total
2/1/2021	0.79	7.3	< 0.2	< 0.2	1570		8.3	16.6	3994				1.31
2/2/2021	1.07	7.4	< 0.2	< 0.2	1600		10.3	16.9	5196				1.31
2/3/2021	0.83	7.2	< 0.2	< 0.2	1500		7.9	13.4	2044				1.63
2/4/2021	0.84	7.2	< 0.2	< 0.2	1590		6.3	15.1	3113				1.23
2/5/2021	1.14	7.3	< 0.2	< 0.2	1670		7.8	11.0	3600				1.40
2/6/2021	0.80	7.3	< 0.2	< 0.2	1580		6.3	12.0	2019				1.40
2/7/2021	0.90	7.4	< 0.2	< 0.2	1680		6.9	9.6	1609				1.67
2/8/2021	0.89	7.4	< 0.2	< 0.2	1520		6.6	10.1	2719				2.30
2/9/2021	0.99	7.3	< 0.2	< 0.2	1610		5.7	8.2	2235				2.01
2/10/2021	0.72	7.5	< 0.2	< 0.2	1440	882	5.5	7.4	1380	12.1	252	32	2.23
2/11/2021	0.81	7.3	< 0.2	< 0.2	1720		4.4	6.2	1673				1.62
2/12/2021	0.78	7.4	< 0.2	< 0.2	1660		4.5	7.1	1341				1.59
2/13/2021	0.65	7.3	< 0.2	< 0.2	1690		4.1	11.7	1487				1.24
2/14/2021	0.84	7.3	< 0.2	< 0.2	1720		7.1	10.3	2347				1.59
2/15/2021	0.92	7.3	< 0.2	< 0.2	1590		5.5	7.9	1876				2.14
2/16/2021	0.97	7.4	< 0.2	< 0.2	1570		4.8	9.0	2410				2.13
2/17/2021	1.10	7.2	< 0.2	< 0.2	1470		4.7	6.9	2191				1.84
2/18/2021	1.08	7.3	< 0.2	< 0.2	1680		3.7	11.3	843				3.74
2/19/2021	0.89	7.3	< 0.2	< 0.2	1720		4.9	8.0	1228				4.19
2/20/2021	0.92	7.3	< 0.2	< 0.2	1680		5.2	7.5	2154				1.95
2/21/2021	0.91	7.4	< 0.2	< 0.2	1500		4.4	7.2	1245				2.64
2/22/2021	1.10	7.4	< 0.2	< 0.2	1440		2.2	13.5	671				5.55
2/23/2021	1.17	7.1	< 0.2	< 0.2	1530		2.3	21.8	962				4.28
2/24/2021	1.19	7.1	< 0.2	< 0.2	1580		12.6	27.7	4326				3.90
2/25/2021	1.30	7.2	< 0.2	< 0.2	1700		7.7	17.8	2209				2.09
2/26/2021	0.97	7.4	< 0.2	< 0.2	1670		6.1	14.5	1633				3.78
2/27/2021	0.87	7.2	< 0.2	< 0.2	1700		7.0	12.7	1721				2.68
2/28/2021	0.97	7.3	< 0.2	< 0.2	1600		7.7	14.8	2234				2.58

GREEN ACRES PROJECT SAMPLES
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Parameter:	Filtration EFF Turbidity	HPEP pH	CCBE Total Coliform	CCBE Total Coliform	HPEP EC	HPEP TDS	CCBE Minimum Cl ₂ Residual Total	CCBE Maximum Cl ₂ Residual Total	CCBE Contact Time	HPEP TOC	HPEP Total Hardness	HPEP COD	HPEP Effluent Flow
Permit Requirements	NTU - 24hr avg	Units - daily grab	MPN - daily grab	MPN - 7 day median	µohms/cm - daily grab	mg/L - monthly grab	mg/L - 24hr min	mg/L - 24hr max	mg-min/L - 24hr min	mg/L - monthly grab	mg/L - monthly grab	mg/L - monthly grab	mgd - 24hr total
3/1/2021	0.95	7.3	< 0.2	< 0.2	1580		9.2	21.1	3481				3.66
3/2/2021	1.12	7.1	< 0.2	< 0.2	1650		8.9	26.0	2417				4.51
3/3/2021	0.86	8.2	< 0.2	< 0.2	367		9.0	20.1	2101				2.59
3/4/2021	0.99	7.3	< 0.2	< 0.2	1470		7.4	20.6	2681				1.67
3/5/2021	1.16	7.3	< 0.2	< 0.2	1700		2.3	13.6	1043				1.91
3/6/2021	0.77	7.2	< 0.2	< 0.2	1520		4.5	14.6	1759				1.43
3/7/2021	0.68	7.5	< 0.2	< 0.2	1140		4.3	24.7	2028				1.79
3/8/2021	0.85	7.3	< 0.2	< 0.2	1680		8.9	22.2	3688				2.03
3/9/2021	0.95	7.3	< 0.2	< 0.2	1610		3.0	17.6	1539				1.66
3/10/2021	1.17	7.3	< 0.2	< 0.2	1570	959	6.7	12.2	2347	13.9	252	35	1.32
3/11/2021	1.11	7.1	< 0.2	< 0.2	1720		6.2	12.1	3042				1.38
3/12/2021	0.84	7.3	< 0.2	< 0.2	1660		5.9	11.5	2389				1.13
3/13/2021	0.74	7.3	< 0.2	< 0.2	1680		6.9	14.9	3517				1.06
3/14/2021	0.63	7.3	< 0.2	< 0.2	1580		6.0	11.6	2952				0.97
3/15/2021	0.71	7.3	< 0.2	< 0.2	1640		5.4	9.0	2709				1.13
3/16/2021	0.79	7.2	< 0.2	< 0.2	1680		6.2	11.6	2745				1.29
3/17/2021	0.77	7.2	< 0.2	< 0.2	1610		5.6	8.9	1797				2.38
3/18/2021	0.72	7.3	< 0.2	< 0.2	1650		4.3	6.6	1090				1.76
3/19/2021	0.70	7.4	< 0.2	< 0.2	1550		4.6	9.4	1698				2.36
3/20/2021	0.75	7.5	< 0.2	< 0.2	1640		3.9	9.3	1832				2.29
3/21/2021	0.69	7.5	< 0.2	< 0.2	1490		5.2	8.5	2178				2.37
3/22/2021	0.70	7.3	< 0.2	< 0.2	1660		4.9	8.0	1816				2.21
3/23/2021	0.64	7.2	< 0.2	< 0.2	1610		3.9	7.3	1474				3.80
3/24/2021	0.65	7.2	< 0.2	< 0.2	1590		4.7	11.2	1861				4.14
3/25/2021	0.54	7.3	< 0.2	< 0.2	1720		5.5	11.3	1929				2.89
3/26/2021	0.59	7.3	< 0.2	< 0.2	1580		3.8	7.3	1157				3.22
3/27/2021	0.67	7.3	< 0.2	< 0.2	1740		4.8	8.3	1266				3.09
3/28/2021	0.62	7.4	< 0.2	< 0.2	1750		3.0	8.2	1194				3.07
3/29/2021	0.62	7.4	< 0.2	< 0.2	1680		4.4	7.6	1188				3.79
3/30/2021	0.57	7.2	< 0.2	< 0.2	1700		3.9	9.1	1187				3.65
3/31/2021	0.63	7.3	< 0.2	< 0.2	1680		5.0	15.1	1368				5.24

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Parameter:	Filtration EFF Turbidity	HPEP pH	CCBE Total Coliform	CCBE Total Coliform	HPEP EC	HPEP TDS	CCBE Minimum Cl ₂ Residual Total	CCBE Maximum Cl ₂ Residual Total	CCBE Contact Time	HPEP TOC	HPEP Total Hardness	HPEP COD	HPEP Effluent Flow
Permit Requirements	NTU - 24hr avg	Units - daily grab	MPN - daily grab	MPN - 7 day median	µohms/cm - daily grab	mg/L - monthly grab	mg/L - 24hr min	mg/L - 24hr max	mg-min/L - 24hr min	mg/L - monthly grab	mg/L - monthly grab	mg/L - monthly grab	mgd - 24hr total
4/1/2021	0.64	7.2	< 0.2	< 0.2	1730		5.7	11.2	1506				3.51
4/2/2021	0.65	7.3	< 0.2	< 0.2	1670		5.7	9.2	1315				4.60
4/3/2021	0.68	7.3	< 0.2	< 0.2	1640		5.0	9.6	1681				3.23
4/4/2021	0.68	7.3	< 0.2	< 0.2	1680		5.1	8.6	1586				3.84
4/5/2021	0.64	7.4	< 0.2	< 0.2	1640		5.2	13.0	1189				4.59
4/6/2021	0.87	7.3	< 0.2	< 0.2	1580		4.9	10.1	1479				4.23
4/7/2021	0.75	7.5	< 0.2	< 0.2	1230	746	6.4	14.9	1961	8.4	179	28	4.01
4/8/2021	0.70	7.3	< 0.2	< 0.2	1770		5.6	9.6	1239				5.01
4/9/2021	0.70	7.3	< 0.2	< 0.2	1660		6.9	10.1	1567				4.86
4/10/2021	0.68	7.3	< 0.2	< 0.2	1690		5.2	10.0	1482				3.58
4/11/2021	0.65	7.4	< 0.2	< 0.2	1700		5.9	10.2	1620				2.66
4/12/2021	0.69	7.4	< 0.2	< 0.2	1680		5.9	9.8	1512				5.05
4/13/2021	0.74	7.3	< 0.2	< 0.2	1530		6.8	10.2	2459				3.67
4/14/2021	0.70	7.2	< 0.2	< 0.2	1620		6.0	14.2	1396				5.12
4/15/2021	0.74	7.2	< 0.2	< 0.2	1650		5.4	14.5	1941				3.92
4/16/2021	0.76	7.3	< 0.2	< 0.2	1690		6.0	11.4	1746				4.34
4/17/2021	0.75	7.4	< 0.2	< 0.2	1700		4.2	7.5	1217				4.03
4/18/2021	0.84	7.4	< 0.2	< 0.2	1630		4.5	8.6	1158				3.54
4/19/2021	0.84	7.3	< 0.2	< 0.2	1640		4.2	9.9	943				5.24
4/20/2021	0.81	7.3	< 0.2	< 0.2	1620		4.7	12.1	1004				5.76
4/21/2021	0.77	7.2	< 0.2	< 0.2	1580		4.3	13.5	927				6.50
4/22/2021	0.77	7.3	< 0.2	< 0.2	1720		4.5	14.6	1029				4.53
4/23/2021	0.74	7.4	< 0.2	< 0.2	1780		5.1	10.1	987				5.22
4/24/2021	0.79	7.3	< 0.2	< 0.2	1590		4.2	8.1	973				2.68
4/25/2021	0.81	7.5	< 0.2	< 0.2	1470		4.1	41.3	1403				3.29
4/26/2021	0.77	7.4	< 0.2	< 0.2	1540		6.2	12.5	1855				5.15
4/27/2021	0.77	7.1	< 0.2	< 0.2	1590		4.4	8.5	1185				5.08
4/28/2021	0.80	7.2	< 0.2	< 0.2	1600		5.3	8.0	1148				5.04
4/29/2021	0.65	7.2	< 0.2	< 0.2	1640		4.0	10.6	718				4.38
4/30/2021	0.65	7.5	< 0.2	< 0.2	1740		7.5	12.9	1607				6.04

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Parameter:	Filtration EFF Turbidity	HPEP pH	CCBE Total Coliform	CCBE Total Coliform	HPEP EC	HPEP TDS	CCBE Minimum Cl ₂ Residual Total	CCBE Maximum Cl ₂ Residual Total	CCBE Contact Time	HPEP TOC	HPEP Total Hardness	HPEP COD	HPEP Effluent Flow
Permit Requirements	NTU - 24hr avg	Units - daily grab	MPN - daily grab	MPN - 7 day median	µohms/cm - daily grab	mg/L - monthly grab	mg/L - 24hr min	mg/L - 24hr max	mg-min/L - 24hr min	mg/L - monthly grab	mg/L - monthly grab	mg/L - monthly grab	mgd - 24hr total
5/1/2021	0.64	7.3	< 0.2	< 0.2	1520		8.0	12.9	1777				4.36
5/2/2021	0.65	7.4	< 0.2	< 0.2	1660		8.9	13.3	2109				3.99
5/3/2021	0.66	7.4	< 0.2	< 0.2	1570		7.9	16.3	1775				5.81
5/4/2021	0.74	7.3	< 0.2	< 0.2	1650		5.0	17.4	1070				6.29
5/5/2021	0.82	7.2	< 0.2	< 0.2	1550		7.4	17.4	2008				5.17
5/6/2021	0.76	7.3	< 0.2	< 0.2	1730		5.9	9.6	1011				5.89
5/7/2021	0.72	7.4	< 0.2	< 0.2	1710		5.6	8.3	942				5.80
5/8/2021	0.77	7.4	< 0.2	< 0.2	1670		5.4	8.4	1355				3.88
5/9/2021	0.80	7.4	< 0.2	< 0.2	1780		5.3	7.5	1815				3.85
5/10/2021	0.89	7.4	< 0.2	< 0.2	1600		5.9	10.3	1476				6.10
5/11/2021	1.06	7.2	< 0.2	< 0.2	1690		5.8	8.5	1543				3.80
5/12/2021	0.99	7.4	< 0.2	< 0.2	1690	1020	5.1	9.1	958	11.4	287	26	5.85
5/13/2021	0.94	7.3	< 0.2	< 0.2	1710		4.5	6.3	920				5.67
5/14/2021	0.93	7.3	< 0.2	< 0.2	1669		4.7	7.2	1012				5.19
5/15/2021	0.87	7.4	< 0.2	< 0.2	1550		4.0	6.0	1049				3.86
5/16/2021	0.93	7.4	< 0.2	< 0.2	1740		4.6	6.8	1473				3.72
5/17/2021	0.98	7.2	< 0.2	< 0.2	1640		5.5	10.9	1723				3.92
5/18/2021	1.03	7.2	< 0.2	< 0.2	1620		4.5	7.2	1270				3.65
5/19/2021	0.88	7.2	< 0.2	< 0.2	1700		4.4	23.4	1341				3.83
5/20/2021	0.68	7.9	< 0.2	< 0.2	644		3.4	21.3	928				5.40
5/21/2021	0.93	7.5	< 0.2	< 0.2	1330		3.2	7.2	1045				4.93
5/22/2021	1.01	7.4	< 0.2	< 0.2	1680		2.8	8.2	1052				4.22
5/23/2021	1.06	7.3	< 0.2	< 0.2	1660		4.9	7.8	1272				4.83
5/24/2021	1.15	7.3	< 0.2	< 0.2	1570		5.5	10.2	938				6.51
5/25/2021	1.12	7.1	< 0.2	< 0.2	1600		2.9	8.7	967				5.52
5/26/2021	1.15	7.2	< 0.2	< 0.2	1510		6.1	11.0	1397				6.07
5/27/2021	1.06	7.3	< 0.2	< 0.2	1740		3.1	12.5	775				5.91
5/28/2021	1.05	7.4	< 0.2	< 0.2	1690		3.4	7.2	1127				5.48
5/29/2021	1.03	7.5	< 0.2	< 0.2	1370		4.6	7.4	1179				4.27
5/30/2021	0.86	7.4	< 0.2	< 0.2	1680		5.6	8.9	1349				5.25
5/31/2021	0.78	7.4	< 0.2	< 0.2	1710		5.4	8.9	1355				4.81

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Parameter:	Filtration EFF Turbidity	HPEP pH	CCBE Total Coliform	CCBE Total Coliform	HPEP EC	HPEP TDS	CCBE Minimum Cl ₂ Residual Total	CCBE Maximum Cl ₂ Residual Total	CCBE Contact Time	HPEP TOC	HPEP Total Hardness	HPEP COD	HPEP Effluent Flow
Permit Requirements	NTU - 24hr avg	Units - daily grab	MPN - daily grab	MPN - 7 day median	µohms/cm - daily grab	mg/L - monthly grab	mg/L - 24hr min	mg/L - 24hr max	mg-min/L - 24hr min	mg/L - monthly grab	mg/L - monthly grab	mg/L - monthly grab	mgd - 24hr total
6/1/2021	0.84	7.2	< 0.2	< 0.2	1620		4.7	7.9	1555				3.87
6/2/2021	0.86	7.3	< 0.2	< 0.2	1590		5.5	10.8	1257				6.18
6/3/2021	0.67	7.3	< 0.2	< 0.2	1690		5.1	8.5	1240				5.75
6/4/2021	0.62	7.4	< 0.2	< 0.2	1740		5.6	9.3	1216				5.55
6/5/2021	0.63	7.4	< 0.2	< 0.2	1580		5.2	7.5	1307				4.38
6/6/2021	0.63	7.4	< 0.2	< 0.2	1770		4.2	9.3	964				4.68
6/7/2021	0.67	7.3	< 0.2	< 0.2	1670		7.3	11.7	1493				5.89
6/8/2021	0.64	7.4	< 0.2	< 0.2	1720		5.2	8.6	1617				4.32
6/9/2021	0.64	7.4	< 0.2	< 0.2	1550	906	6.2	8.7	1427	10.2	257	28	5.70
6/10/2021	0.63	7.2	< 0.2	< 0.2	1710		5.3	7.1	1010				7.04
6/11/2021	0.63	7.4	29.9	< 0.2	1690		4.3	9.2	1392				6.08
6/12/2021	0.62	7.6	< 0.2	< 0.2	1050		4.5	6.8	1053				5.16
6/13/2021	0.64	7.3	< 0.2	< 0.2	1650		5.5	9.4	1015				5.55
6/14/2021	0.70	7.3	< 0.2	< 0.2	1570		4.5	11.7	873				7.19
6/15/2021	0.69	7.2	< 0.2	< 0.2	1590		4.6	8.9	921				6.51
6/16/2021	0.67	7.3	< 0.2	< 0.2	1630		5.6	9.8	1016				7.16
6/17/2021	0.64	7.3	< 0.2	< 0.2	1680		4.5	7.6	1116				5.80
6/18/2021	0.65	7.4	< 0.2	< 0.2	1730		4.7	6.5	905				5.61
6/19/2021	0.65	7.4	< 0.2	< 0.2	1730		3.6	8.9	1182				4.13
6/20/2021	0.63	7.4	< 0.2	< 0.2	1760		5.5	9.0	1019				4.65
6/21/2021	0.75	7.3	< 0.2	< 0.2	1560		5.9	10.4	1295				5.60
6/22/2021	0.77	7.4	< 0.2	< 0.2	1650		4.7	7.4	1047				6.44
6/23/2021	0.71	7.5	< 0.2	< 0.2	1640		6.1	10.3	1237				5.80
6/24/2021	0.67	7.5	< 0.2	< 0.2	1710		4.9	8.2	1065				6.40
6/25/2021	0.60	7.5	< 0.2	< 0.2	1740		5.0	8.1	1001				6.09
6/26/2021	0.65	7.4	< 0.2	< 0.2	1690		4.5	8.1	946				4.60
6/27/2021	0.66	7.4	< 0.2	< 0.2	1630		5.8	9.1	942				5.59
6/28/2021	0.65	7.6	< 0.2	< 0.2	1640		6.4	10.7	1087				6.62
6/29/2021	0.67	7.5	< 0.2	< 0.2	1570		5.0	8.3	1253				5.15
6/30/2021	0.66	7.5	< 0.2	< 0.2	1630		8.0	9.4	1626				6.28

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Permit Requirements	NTU - 24hr avg	Units - daily grab	MPN - daily grab	MPN - 7 day median	µohms/cm - daily grab	mg/L - monthly grab	mg/L - 24hr min	mg/L - 24hr max	mg-min/L - 24hr min	mg/L - monthly grab	mg/L - monthly grab	mg/L - monthly grab	mgd - 24hr total
7/1/2021	0.70	7.5	< 0.2	< 0.2	1700		5.6	9.2	1552				5.59
7/2/2021	0.67	7.5	< 0.2	< 0.2	1710		6.5	7.8	1331				6.25
7/3/2021	0.65	7.4	< 0.2	< 0.2	1680		5.4	7.9	1372				4.62
7/4/2021	0.61	7.4	< 0.2	< 0.2	1710		5.2	7.8	1296				5.17
7/5/2021	0.63	7.5	< 0.2	< 0.2	1530		6.8	9.3	1232				5.91
7/6/2021	0.74	7.4	< 0.2	< 0.2	1600		6.2	8.8	1414				5.49
7/7/2021	0.75	7.6	< 0.2	< 0.2	1660	1020	6.6	8.6	1320	11.4	292	28	6.70
7/8/2021	0.84	7.5	< 0.2	< 0.2	1520		5.7	7.6	1087				6.69
7/9/2021	0.84	7.4	< 0.2	< 0.2	1760		4.7	7.3	1328				6.14
7/10/2021	0.61	7.4	< 0.2	< 0.2	1680		4.9	8.8	1432				4.57
7/11/2021	0.61	7.4	< 0.2	< 0.2	1650		5.3	7.7	969				5.31
7/12/2021	0.70	7.6	< 0.2	< 0.2	1420		5.1	11.1	1056				6.31
7/13/2021	0.69	7.5	< 0.2	< 0.2	1580		4.5	7.5	1367				5.52
7/14/2021	0.68	7.5	< 0.2	< 0.2	1620		6.1	9.5	1215				6.45
7/15/2021	0.69	7.6	< 0.2	< 0.2	1680		5.8	8.8	1053				6.46
7/16/2021	0.67	7.4	< 0.2	< 0.2	1700		5.9	7.6	1080				6.41
7/17/2021	0.65	7.4	< 0.2	< 0.2	1650		4.8	8.6	1265				4.09
7/18/2021	0.63	7.4	< 0.2	< 0.2	1660		4.6	8.3	957				6.58
7/19/2021	0.65	7.6	< 0.2	< 0.2	1460		7.0	9.8	1527				6.58
7/20/2021	0.64	7.5	< 0.2	< 0.2	1630		5.5	9.3	1297				6.59
7/21/2021	0.63	7.7	< 0.2	< 0.2	1490		5.1	10.5	1127				6.57
7/22/2021	0.62	7.6	< 0.2	< 0.2	1580		5.3	8.3	977				7.08
7/23/2021	0.59	7.5	< 0.2	< 0.2	1600		5.3	9.0	1102				6.49
7/24/2021	0.61	7.5	< 0.2	< 0.2	1690		5.4	8.3	1086				4.65
7/25/2021	0.64	7.4	< 0.2	< 0.2	1650		3.7	9.1	972				6.72
7/26/2021	0.69	7.6	< 0.2	< 0.2	1540		6.5	9.7	1770				5.99
7/27/2021	0.73	7.4	< 0.2	< 0.2	1720		5.0	8.1	1639				4.33
7/28/2021	0.66	7.5	< 0.2	< 0.2	1670		6.1	9.3	1098				5.29
7/29/2021	0.62	7.5	< 0.2	< 0.2	1720		5.5	9.5	1362				5.76
7/30/2021	0.58	7.4	< 0.2	< 0.2	1640		5.0	8.7	1180				5.62
7/31/2021	0.59	7.4	< 0.2	< 0.2	1660		4.9	8.9	1016				4.31

GREEN ACRES PROJECT SAMPLES
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Parameter:	Filtration EFF Turbidity	HPEP pH	CCBE Total Coliform	CCBE Total Coliform	HPEP EC	HPEP TDS	CCBE Minimum Cl ₂ Residual Total	CCBE Maximum Cl ₂ Residual Total	CCBE Contact Time	HPEP TOC	HPEP Total Hardness	HPEP COD	HPEP Effluent Flow
Permit Requirements:	NTU - 24hr avg	Units - daily grab	MPN - daily grab	MPN - 7 day median	µohms/cm - daily grab	mg/L - monthly grab	mg/L - 24hr min	mg/L - 24hr max	mg-min/L - 24hr min	mg/L - monthly grab	mg/L - monthly grab	mg/L - monthly grab	mgd - 24hr total
8/1/2021	0.58	7.4	< 0.2	< 0.2	1730		4.7	9.6	1044				5.03
8/2/2021	0.57	7.6	< 0.2	< 0.2	1570		4.2	11.1	917				6.88
8/3/2021	0.57	7.5	< 0.2	< 0.2	1650		4.5	8.9	970				6.20
8/4/2021	0.47	7.6	< 0.2	< 0.2	1690		6.9	11.6	1305				5.60
8/5/2021	0.45	7.6	< 0.2	< 0.2	1740		4.5	12.1	978				5.93
8/6/2021	0.48	7.5	< 0.2	< 0.2	1700		6.2	10.5	1107				5.51
8/7/2021	0.48	7.5	< 0.2	< 0.2	1660		5.9	10.3	1097				4.25
8/8/2021	0.45	7.5	< 0.2	< 0.2	1680		6.1	10.3	1657				5.63
8/9/2021	0.50	7.6	< 0.2	< 0.2	1660		6.1	11.0	1376				6.65
8/10/2021	0.50	7.5	< 0.2	< 0.2	1610		6.9	10.4	1776				5.46
8/11/2021	0.46	7.8	< 0.2	< 0.2	1540	904	6.6	10.3	1574	8.2	241	21	7.39
8/12/2021	0.41	7.5	< 0.2	< 0.2	1680		5.1	8.4	1467				4.16
8/13/2021	0.37	7.4	< 0.2	< 0.2	1660		5.1	8.1	1209				5.45
8/14/2021	0.34	7.4	< 0.2	< 0.2	1640		5.3	7.7	1020				4.52
8/15/2021	0.34	7.4	< 0.2	< 0.2	1730		5.1	9.4	903				5.00
8/16/2021	0.33	7.6	< 0.2	< 0.2	1540		4.7	8.5	1166				6.40
8/17/2021	0.31	7.5	< 0.2	< 0.2	1510		5.1	7.5	1066				6.34
8/18/2021	0.32	7.6	< 0.2	< 0.2	1610		4.2	9.6	1222				5.95
8/19/2021	0.30	7.6	< 0.2	< 0.2	1620		4.1	8.6	1128				5.41
8/20/2021	0.31	7.5	< 0.2	< 0.2	1700		5.9	11.3	1284				5.22
8/21/2021	0.34	7.6	< 0.2	< 0.2	1760		6.3	10.4	1927				5.08
8/22/2021	0.34	7.5	< 0.2	< 0.2	1710		7.1	10.1	2162				3.92
8/23/2021	0.36	7.6	< 0.2	< 0.2	1560		3.4	12.0	1149				5.96
8/24/2021	0.36	7.5	< 0.2	< 0.2	1630		4.5	11.3	1546				5.40
8/25/2021	0.38	7.6	< 0.2	< 0.2	1700		1.5	11.2	561				6.16
8/26/2021	0.40	7.6	< 0.2	< 0.2	1590		1.2	11.3	506				5.64
8/27/2021	0.42	7.5	< 0.2	< 0.2	1770		5.7	11.1	1652				6.41
8/28/2021	0.39	7.4	< 0.2	< 0.2	1670		6.0	11.6	1518				5.13
8/29/2021	0.36	7.4	< 0.2	< 0.2	1740		3.9	13.4	1066				6.00
8/30/2021	0.38	7.7	77.0	< 0.2	1170		1.4	13.9	611				6.16
8/31/2021	0.38	7.4	< 0.2	< 0.2	1680		3.9	11.8	1216				5.71

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Parameter:	Filtration EFF Turbidity	HPEP pH	CCBE Total Coliform	CCBE Total Coliform	HPEP EC	HPEP TDS	CCBE Minimum Cl ₂ Residual Total	CCBE Maximum Cl ₂ Residual Total	CCBE Contact Time	HPEP TOC	HPEP Total Hardness	HPEP COD	HPEP Effluent Flow
Permit Requirements	NTU - 24hr avg	Units - daily grab	MPN - daily grab	MPN - 7 day median	µohms/cm - daily grab	mg/L - monthly grab	mg/L - 24hr min	mg/L - 24hr max	mg-min/L - 24hr min	mg/L - monthly grab	mg/L - monthly grab	mg/L - monthly grab	mgd - 24hr total
9/1/2021	0.38	7.5	< 0.2	< 0.2	1700		8.4	11.1	2071				5.02
9/2/2021	0.44	7.6	< 0.2	< 0.2	1620		7.3	11.6	1714				5.54
9/3/2021	0.51	7.5	< 0.2	< 0.2	1660		7.0	11.2	1258				5.74
9/4/2021	0.62	7.4	< 0.2	< 0.2	1640		5.8	14.2	1467				3.27
9/5/2021	0.63	7.4	< 0.2	< 0.2	1650		6.1	12.8	1286				6.60
9/6/2021	0.62	7.5	< 0.2	< 0.2	1550		6.9	12.3	1720				5.99
9/7/2021	0.63	7.4	< 0.2	< 0.2	1590		6.7	14.0	1933				5.15
9/8/2021	0.63	7.7	< 0.2	< 0.2	1670	1020	5.9	12.0	1412	9.4	285	24	5.51
9/9/2021	0.60	7.6	< 0.2	< 0.2	1630		7.7	11.4	1595				6.32
9/10/2021	0.52	7.5	< 0.2	< 0.2	1720		6.0	10.3	1711				5.34
9/11/2021	0.52	7.5	< 0.2	< 0.2	1660		6.0	8.4	1968				3.83
9/12/2021	0.57	7.4	< 0.2	< 0.2	1650		6.1	10.4	1399				6.86
9/13/2021	0.62	7.6	< 0.2	< 0.2	1540		7.3	12.9	1831				5.46
9/14/2021	0.63	7.4	< 0.2	< 0.2	1710		6.8	11.1	1737				5.99
9/15/2021	0.57	7.4	< 0.2	< 0.2	1650		7.8	11.5	1799				4.89
9/16/2021	0.52	7.6	< 0.2	< 0.2	1660		7.6	11.0	1609				6.36
9/17/2021	0.58	7.5	< 0.2	< 0.2	1540		5.1	12.2	1028				5.85
9/18/2021	0.54	7.5	< 0.2	< 0.2	1630		6.6	10.4	1814				4.32
9/19/2021	0.55	7.5	< 0.2	< 0.2	1720		6.7	9.7	1379				5.01
9/20/2021	0.58	7.5	< 0.2	< 0.2	1680		7.4	9.8	1328				5.86
9/21/2021	0.62	7.5	< 0.2	< 0.2	1590		6.3	10.5	1903				5.21
9/22/2021	0.58	7.6	< 0.2	< 0.2	1500		7.0	10.7	1672				5.26
9/23/2021	0.55	7.6	< 0.2	< 0.2	1680		6.8	10.0	1716				5.38
9/24/2021	0.56	7.6	< 0.2	< 0.2	1670		6.5	8.3	1467				4.19
9/25/2021	0.60	7.4	< 0.2	< 0.2	1630		4.3	7.5	1060				2.70
9/26/2021	0.56	7.5	< 0.2	< 0.2	1620		4.9	9.2	1306				5.62
9/27/2021	0.57	7.5	< 0.2	< 0.2	1720		4.1	7.7	981				3.19
9/28/2021	0.61	7.6	< 0.2	< 0.2	1700		3.8	8.2	1565				2.81
9/29/2021	0.61	7.7	< 0.2	< 0.2	1490		5.9	10.0	1796				5.54
9/30/2021	0.61	7.6	< 0.2	< 0.2	1650		7.4	10.0	1797				4.86

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Parameter:	Filtration EFF Turbidity	HPEP pH	CCBE Total Coliform	CCBE Total Coliform	HPEP EC	HPEP TDS	CCBE Minimum Cl ₂ Residual Total	CCBE Maximum Cl ₂ Residual Total	CCBE Contact Time	HPEP TOC	HPEP Total Hardness	HPEP COD	HPEP Effluent Flow
Permit Requirements	NTU - 24hr avg	Units - daily grab	MPN - daily grab	MPN - 7 day median	µohms/cm - daily grab	mg/L - monthly grab	mg/L - 24hr min	mg/L - 24hr max	mg-min/L - 24hr min	mg/L - monthly grab	mg/L - monthly grab	mg/L - monthly grab	mgd - 24hr total
10/1/2021	0.57	7.4	< 0.2	< 0.2	1720		5.7	9.1	1527				4.16
10/2/2021	0.60	7.4	< 0.2	< 0.2	1680		6.7	9.1	1705				4.42
10/3/2021	0.60	7.4	< 0.2	< 0.2	1690		3.0	9.7	1446				3.71
10/4/2021	0.61	7.6	< 0.2	< 0.2	1630		5.9	12.0	1466				6.47
10/5/2021	0.70	7.5	< 0.2	< 0.2	1630		6.1	10.2	1523				3.12
10/6/2021	0.65	7.8	< 0.2	< 0.2	1330	806	1.6	8.2	730	8.5	241	21	3.30
10/7/2021	1.55	7.6	< 0.2	< 0.2	1600		3.9	8.1	1353				3.58
10/8/2021	0.71	7.6	< 0.2	< 0.2	1650		4.3	6.5	1009				2.42
10/9/2021	0.73	7.5	< 0.2	< 0.2	1590		0.8	10.6	1812				1.26
10/10/2021	0.51	7.4	< 0.2	< 0.2	1590		7.2	12.0	3044				2.11
10/11/2021	0.60	7.6	< 0.2	< 0.2	1600		5.5	10.7	1873				2.67
10/12/2021	0.66	7.6	< 0.2	< 0.2	1660		5.3	10.9	1506				3.40
10/13/2021	0.64	7.6	< 0.2	< 0.2	1680		6.1	10.9	1193				5.37
10/14/2021	0.67	7.5	< 0.2	< 0.2	1670		6.9	11.0	1480				5.59
10/15/2021	0.66	7.5	< 0.2	< 0.2	1720		6.2	8.9	1834				4.20
10/16/2021	0.73	7.4	< 0.2	< 0.2	1680		2.0	7.3	1218				2.70
10/17/2021	0.77	7.3	< 0.2	< 0.2	1580		5.4	10.2	1727				3.74
10/18/2021	0.74	7.6	< 0.2	< 0.2	1660		7.5	14.0	1608				4.35
10/19/2021	0.84	7.6	< 0.2	< 0.2	1500		5.9	9.1	1849				3.97
10/20/2021	1.12	7.5	< 0.2	< 0.2	1690		4.4	9.5	1402				3.96
10/21/2021	1.12	7.4	< 0.2	< 0.2	1680		4.2	8.1	930				4.63
10/22/2021	1.06	7.4	< 0.2	< 0.2	1640		4.3	6.4	1141				3.98
10/23/2021	1.05	7.4	< 0.2	< 0.2	1640		4.1	7.3	1272				2.36
10/24/2021	1.25	7.4	< 0.2	< 0.2	1660		3.1	7.4	1426				1.58
10/25/2021	1.03	7.5	< 0.2	< 0.2	1690		3.0	8.0	1339				1.86
10/26/2021	1.08	7.5	< 0.2	< 0.2	1570		2.7	9.7	1207				1.66
10/27/2021	1.00	7.4	< 0.2	< 0.2	1440		6.2	11.3	2292				2.02
10/28/2021	1.09	7.4	< 0.2	< 0.2	1570		3.6	8.3	1155				2.80
10/29/2021	0.86	7.3	< 0.2	< 0.2	1670		1.7	7.8	708				3.37
10/30/2021	0.78	7.4	< 0.2	< 0.2	1620		4.8	7.0	1507				2.90
10/31/2021	0.81	7.4	< 0.2	< 0.2	1640		4.5	9.5	2172				2.29

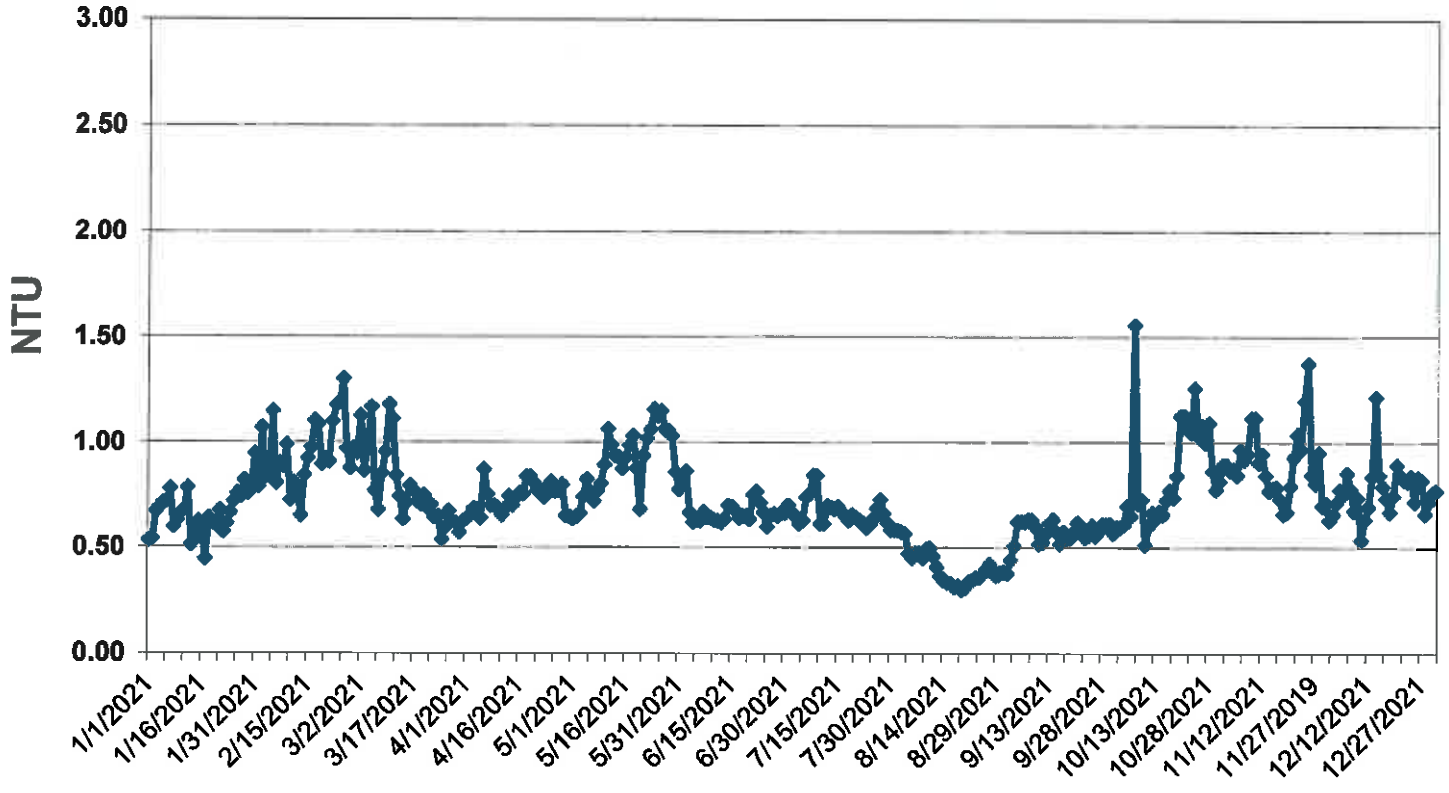
GREEN ACRES PROJECT SAMPLES
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Parameter:	Filtration EFF Turbidity	HPEP pH	CCBE Total Coliform	CCBE Total Coliform	HPEP EC	HPEP TDS	CCBE Minimum Cl ₂ Residual Total	CCBE Maximum Cl ₂ Residual Total	CCBE Contact Time	HPEP TOC	HPEP Total Hardness	HPEP COD	HPEP Effluent Flow
Permit Requirements	NTU - 24hr avg	Units - daily grab	MPN - daily grab	MPN - 7 day median	µohms/cm - daily grab	mg/L - monthly grab	mg/L - 24hr min	mg/L - 24hr max	mg-min/L - 24hr min	mg/L - monthly grab	mg/L - monthly grab	mg/L - monthly grab	mgd - 24hr total
11/1/2021	0.89	7.6	< 0.2	< 0.2	1530		5.8	13.0	2073				3.04
11/2/2021	0.89	7.4	< 0.2	< 0.2	1590		5.7	10.5	1964				2.45
11/3/2021	0.87	7.6	< 0.2	< 0.2	1560	914	4.4	7.6	1291	11.3	294	36	2.59
11/4/2021	0.87	7.5	< 0.2	< 0.2	1640		4.5	16.0	1422				3.29
11/5/2021	0.84	7.4	< 0.2	< 0.2	1600		4.2	6.1	1365				3.02
11/6/2021	0.96	7.4	< 0.2	< 0.2	1620		4.1	6.8	1046				2.70
11/7/2021	0.92	7.2	< 0.2	< 0.2	1610		3.0	12.0	1359				2.42
11/8/2021	0.94	7.5	< 0.2	< 0.2	1690		5.1	8.4	1432				2.91
11/9/2021	1.11	7.5	< 0.2	< 0.2	1710		4.1	14.9	1473				2.13
11/10/2021	1.11	7.4	< 0.2	< 0.2	1600		5.3	15.7	1409				5.86
11/11/2021	0.90	7.4	< 0.2	< 0.2	1680		5.5	9.4	2143				3.05
11/12/2021	0.94	7.3	< 0.2	< 0.2	1710		4.6	8.4	1590				3.50
11/13/2021	0.84	7.2	< 0.2	< 0.2	1710		5.0	7.9	972				3.09
11/14/2021	0.77	7.3	< 0.2	< 0.2	1680		5.2	9.9	1548				3.33
11/15/2021	0.78	7.4	< 0.2	< 0.2	1640		6.2	8.8	1822				3.99
11/16/2021	0.79	7.5	< 0.2	< 0.2	1660		5.4	10.3	1884				2.56
11/17/2021	0.73	7.5	< 0.2	< 0.2	1590		5.8	12.2	1845				4.02
11/18/2021	0.66	7.4	< 0.2	< 0.2	1720		6.2	9.3	1327				3.90
11/19/2021	0.67	7.4	< 0.2	< 0.2	1640		5.8	10.0	2312				2.83
11/20/2021	0.79	7.3	< 0.2	< 0.2	1590		5.0	6.8	1598				2.87
11/21/2021	0.93	7.3	< 0.2	< 0.2	1620		4.6	8.1	1108				3.08
11/22/2021	1.04	7.5	< 0.2	< 0.2	1490		5.2	15.7	1119				3.91
11/23/2021	0.97	7.5	< 0.2	< 0.2	1630		5.8	9.2	1599				3.33
11/24/2021	1.19	7.5	< 0.2	< 0.2	1610		5.8	10.0	1125				5.36
11/25/2021	1.37	7.2	< 0.2	< 0.2	1720		4.1	11.5	1786				2.79
11/26/2021	0.85	7.3	< 0.2	< 0.2	1680		5.6	9.9	2004				4.09
11/27/2019	0.81	7.4	< 0.2	< 0.2	1310		4.5	9.3	1609				3.00
11/28/2021	0.95	7.3	< 0.2	< 0.2	1560		6.0	9.1	1389				3.27
11/29/2021	0.70	7.5	< 0.2	< 0.2	1710		6.0	15.6	1877				2.96
11/30/2021	0.71	7.4	< 0.2	< 0.2	1620		6.0	9.6	1876				3.03

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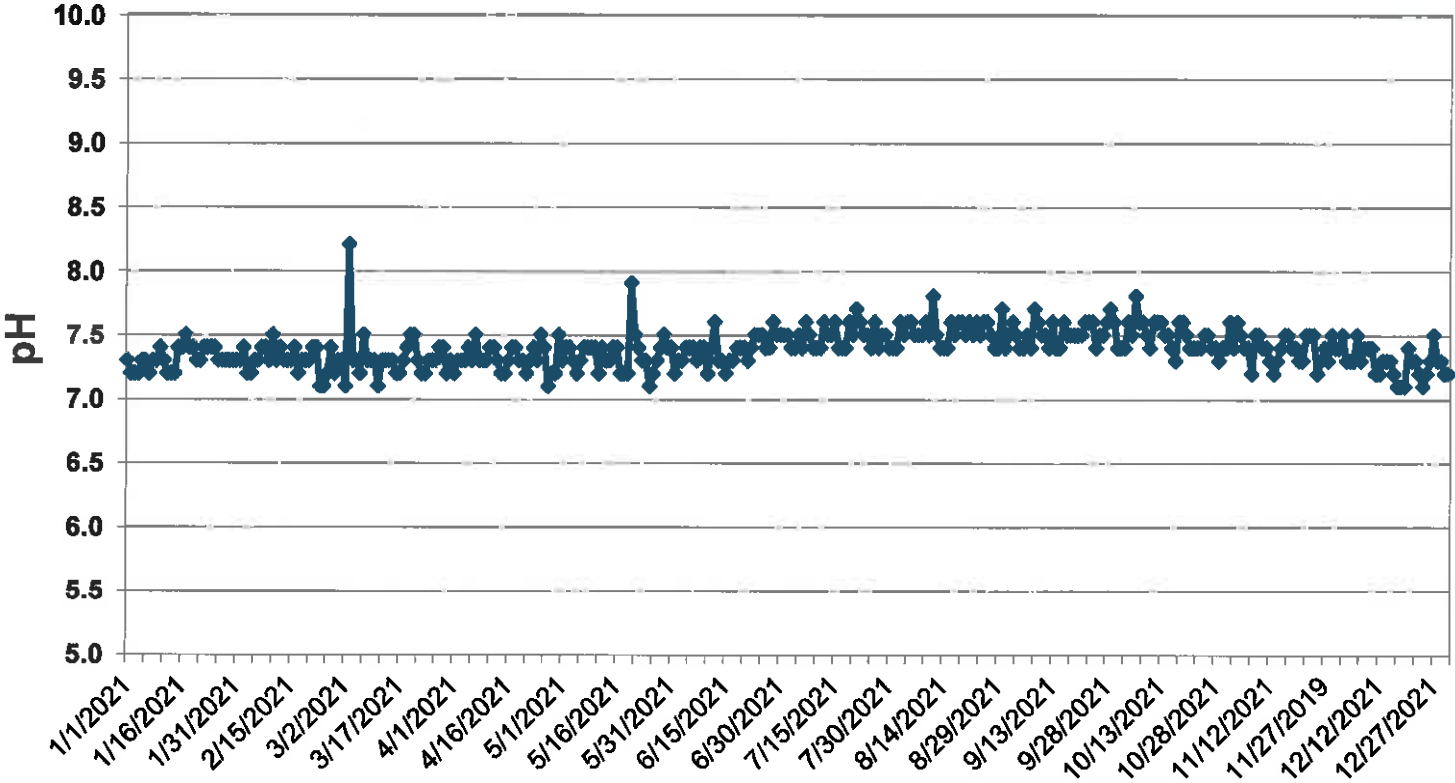
Parameter:	Filtration EFF Turbidity	HPEP pH	CCBE Total Coliform	CCBE Total Coliform	HPEP EC	HPEP TDS	CCBE Minimum Cl ₂ Residual Total	CCBE Maximum Cl ₂ Residual Total	CCBE Contact Time	HPEP TOC	HPEP Total Hardness	HPEP COD	HPEP Effluent Flow
Permit Requirements	NTU - 24hr avg	Units - daily grab	MPN - daily grab	MPN - 7 day median	µohms/cm - daily grab	mg/L - monthly grab	mg/L - 24hr min	mg/L - 24hr max	mg-min/L - 24hr min	mg/L - monthly grab	mg/L - monthly grab	mg/L - monthly grab	mgd - 24hr total
12/1/2021	0.63	7.4	< 0.2	< 0.2	1650		5.1	9.2	945				3.67
12/2/2021	0.66	7.5	< 0.2	< 0.2	1710		5.6	8.3	1422				3.36
12/3/2021	0.71	7.3	< 0.2	< 0.2	1600		5.3	7.7	1948				2.90
12/4/2021	0.77	7.3	< 0.2	< 0.2	1600		4.8	9.8	2088				2.81
12/5/2021	0.75	7.3	< 0.2	< 0.2	1610		5.0	9.7	1923				2.38
12/6/2021	0.85	7.5	< 0.2	< 0.2	1680		4.7	12.1	2169				1.92
12/7/2021	0.78	7.3	< 0.2	< 0.2	1630		4.6	15.4	1832				2.20
12/8/2021	0.67	7.4	< 0.2	< 0.2	1430	846	4.4	8.4	2091	9.5	259	26	2.37
12/9/2021	0.73	7.4	< 0.2	< 0.2	1510		4.2	9.0	1145				1.57
12/10/2021	0.54	7.4	< 0.2	< 0.2	1680		4.6	9.2	2337				1.68
12/11/2021	0.63	7.2	< 0.2	< 0.2	1570		5.0	8.3	1712				1.30
12/12/2021	0.69	7.2	< 0.2	< 0.2	1560		4.6	7.9	2108				1.25
12/13/2021	0.84	7.3	< 0.2	< 0.2	1520		4.4	8.3	1963				1.21
12/14/2021	1.21	7.3	< 0.2	< 0.2	1580		5.9	9.2	3666				0.79
12/15/2021	0.84	7.3	< 0.2	< 0.2	1700		6.1	9.8	2075				0.80
12/16/2021	0.79	7.2	< 0.2	< 0.2	1490		1.8	14.6	830				1.04
12/17/2021	0.74	7.1	< 0.2	< 0.2	1660		7.1	12.1	3123				0.81
12/18/2021	0.67	7.1	< 0.2	< 0.2	1650		7.4	15.4	3761				0.91
12/19/2021	0.75	7.1	< 0.2	< 0.2	1720		6.8	11.4	2615				0.95
12/20/2021	0.89	7.4	< 0.2	< 0.2	1700		6.3	9.4	3065				1.06
12/21/2021	0.84	7.3	< 0.2	< 0.2	1580		5.4	12.3	2482				1.06
12/22/2021	0.82	7.3	< 0.2	< 0.2	1660		6.1	12.9	2913				0.95
12/23/2021	0.82	7.2	< 0.2	< 0.2	1510		5.7	9.3	1487				1.08
12/24/2021	0.84	7.1	< 0.2	< 0.2	1710		4.0	10.0	2007				1.00
12/25/2021	0.72	7.2	< 0.2	< 0.2	1660		4.8	9.6	2132				0.99
12/26/2021	0.83	7.3	< 0.2	< 0.2	1020		5.9	8.6	2373				0.98
12/27/2021	0.82	7.5	< 0.2	< 0.2	1290		6.8	12.4	3260				0.97
12/28/2021	0.66	7.3	< 0.2	< 0.2	1510		6.7	9.7	3117				0.85
12/29/2021	0.72	7.3	< 0.2	< 0.2	1610		3.3	12.7	1658				0.73
12/30/2021	0.76	7.2	< 0.2	< 0.2	1640		10.7	13.5	4161				0.75
12/31/2021	0.77	7.2	< 0.2	< 0.2	1720		10.7	19.0	5094				0.74

GREEN ACRES PROJECT FILTER EFFLUENT TURBIDITY

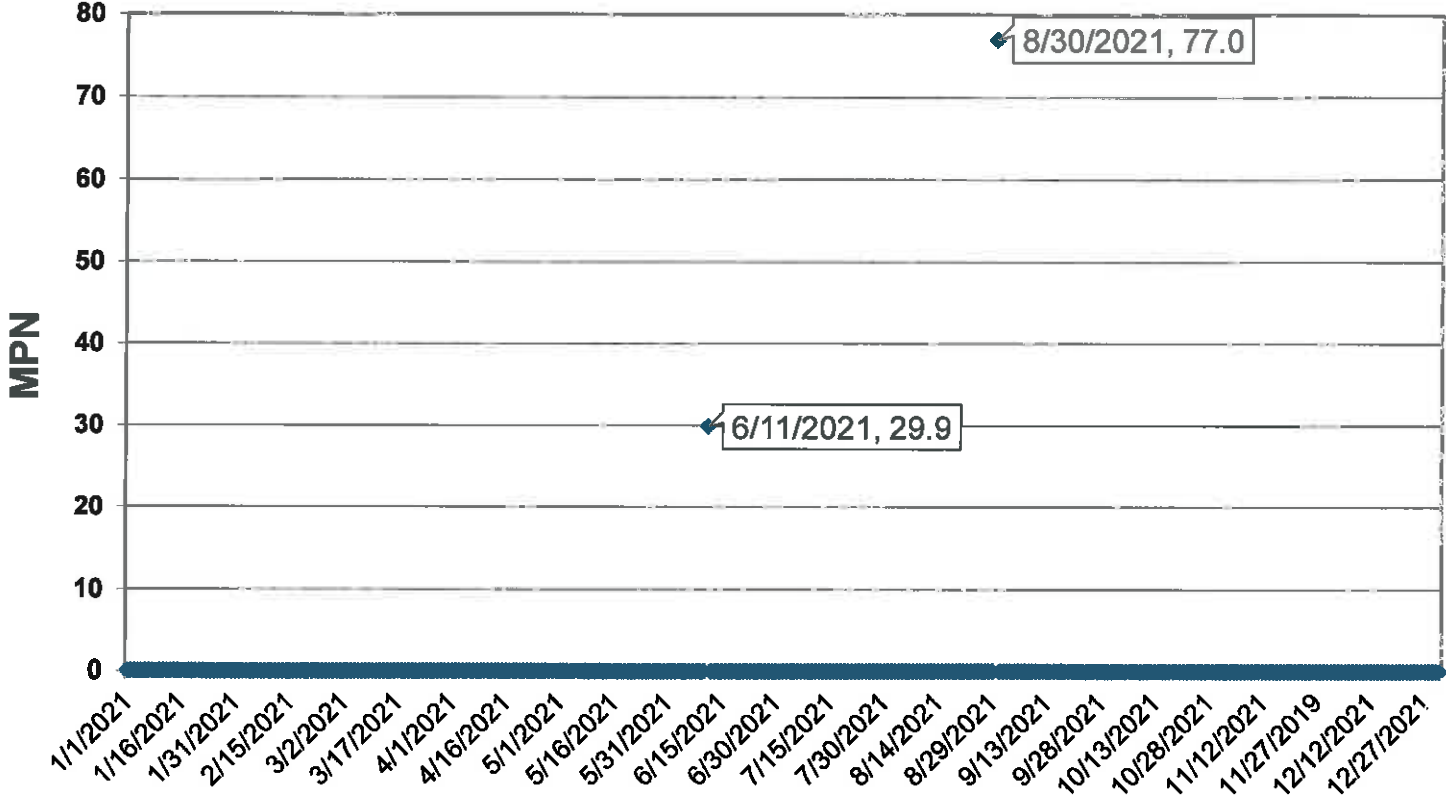


GREEN ACRES PROJECT

EFFLUENT pH, HPEP

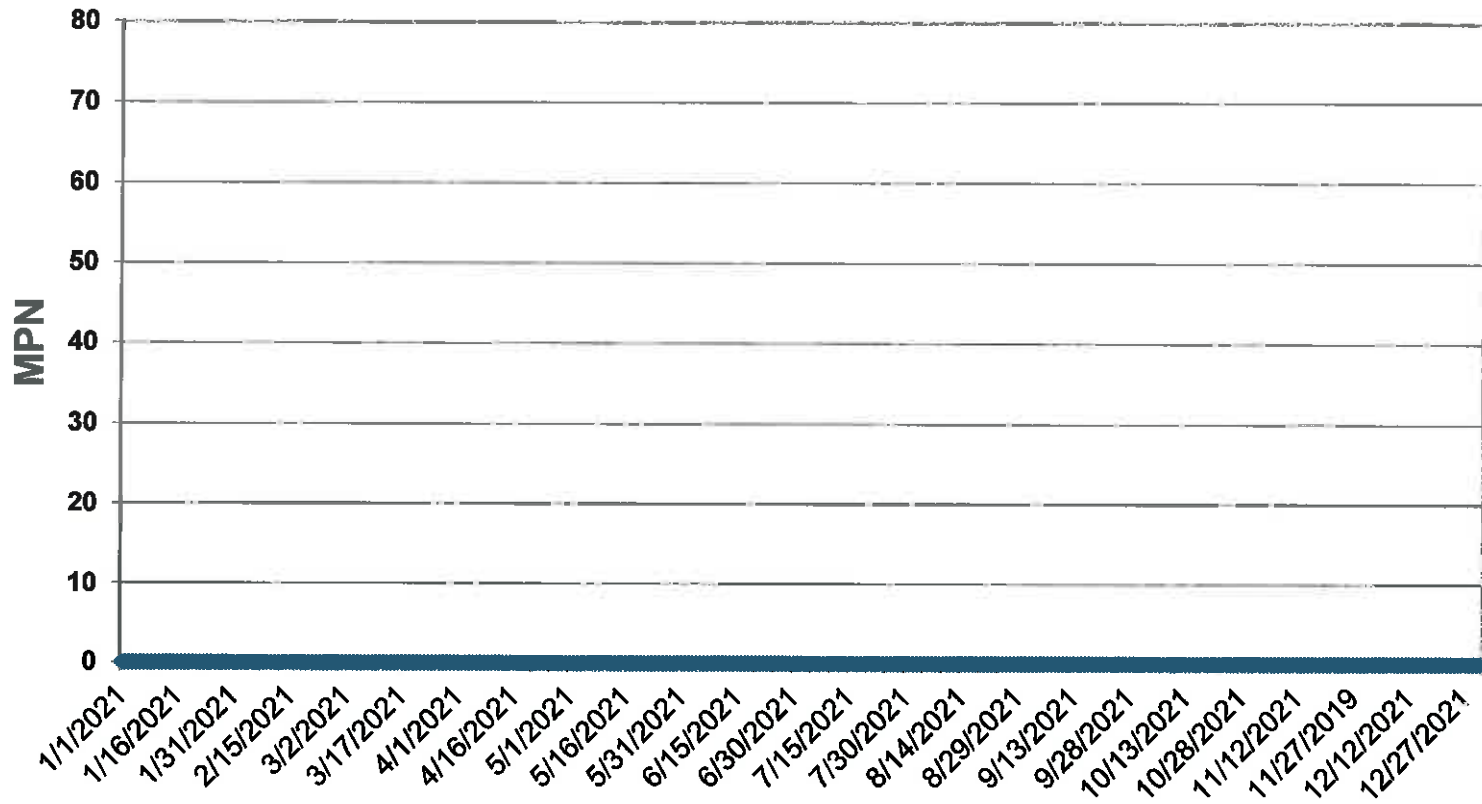


GREEN ACRES PROJECT CCBE TOTAL COLIFORM, MPN

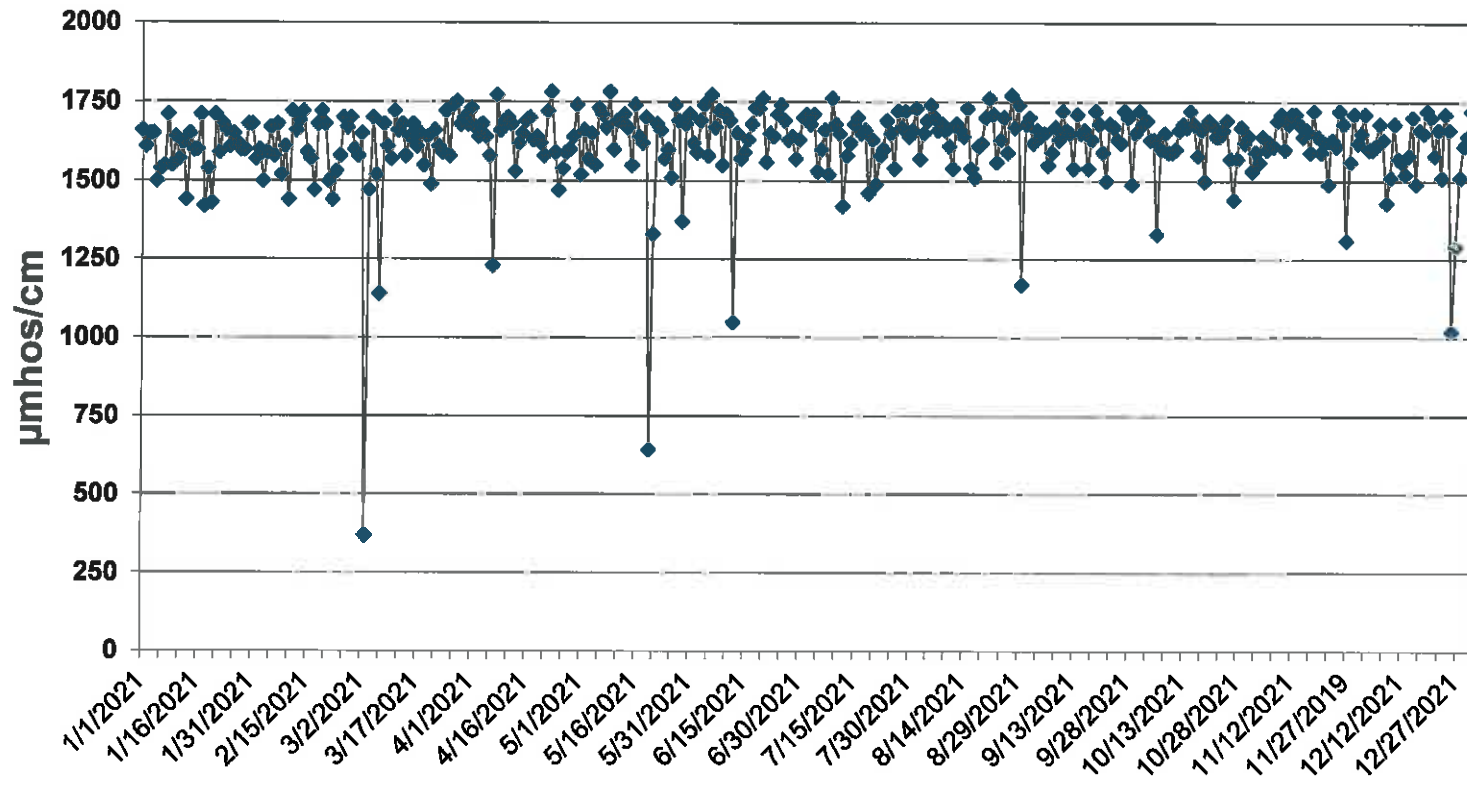


GREEN ACRES PROJECT

CCBE TOTAL COLIFORM MPN, 7-Day Median

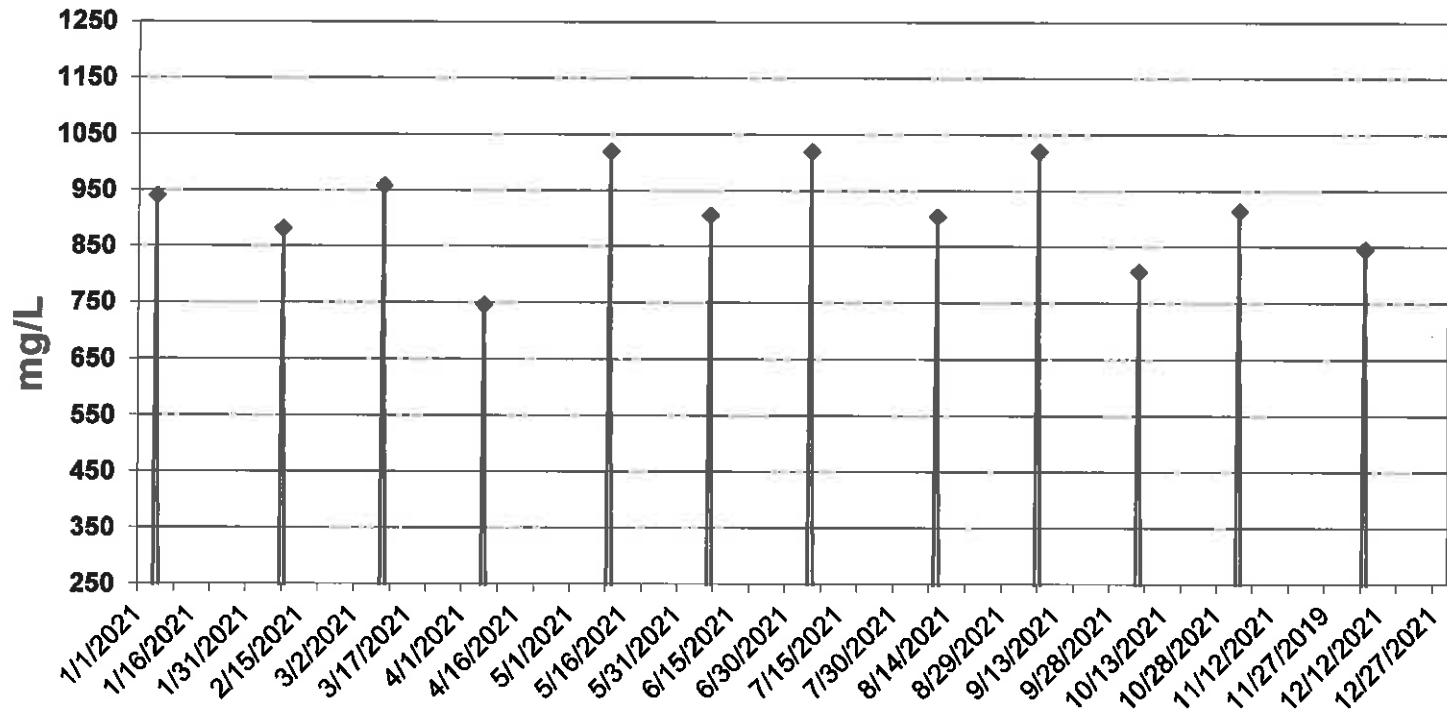


GREEN ACRES PROJECT EFFLUENT CONDUCTIVITY, HPEP

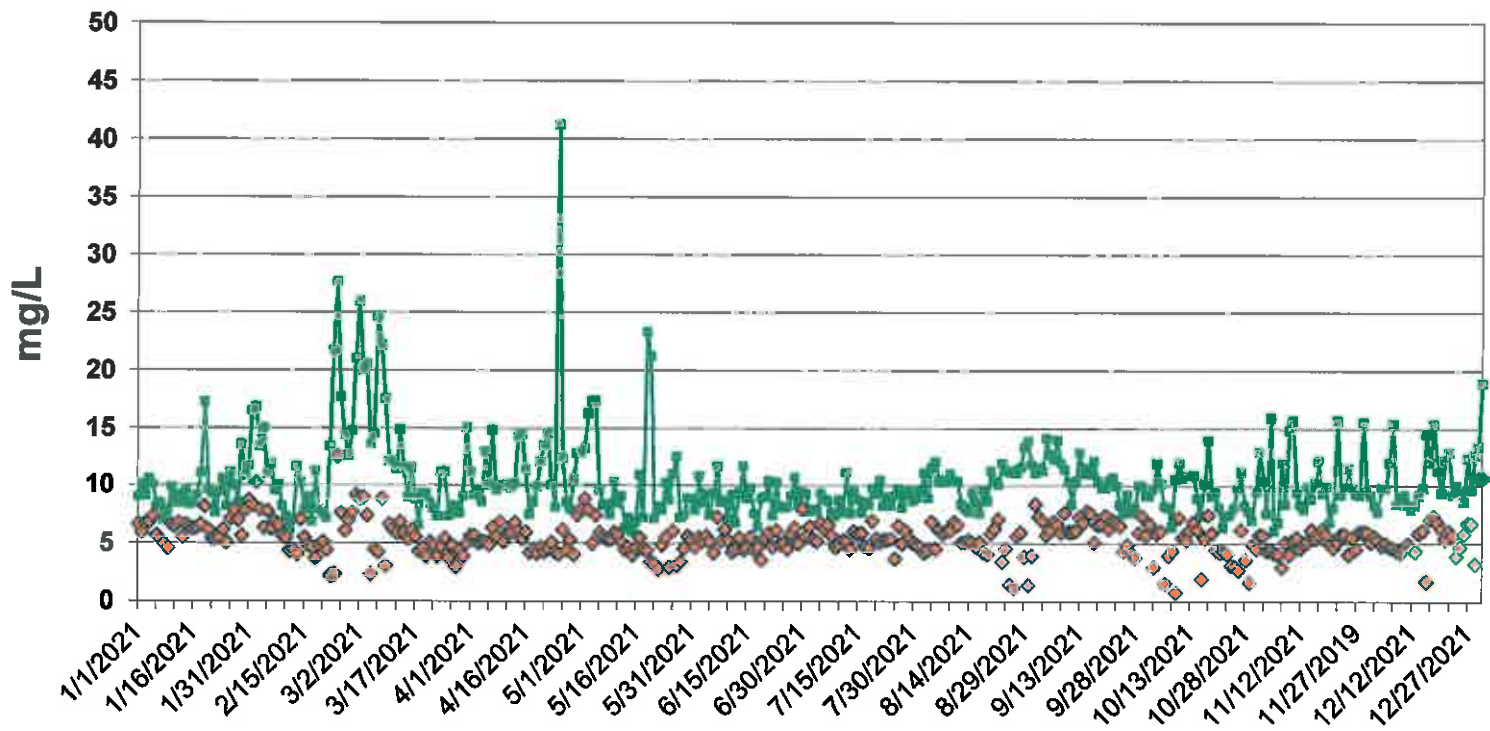


GREEN ACRES PROJECT

EFFLUENT TDS, HPEP

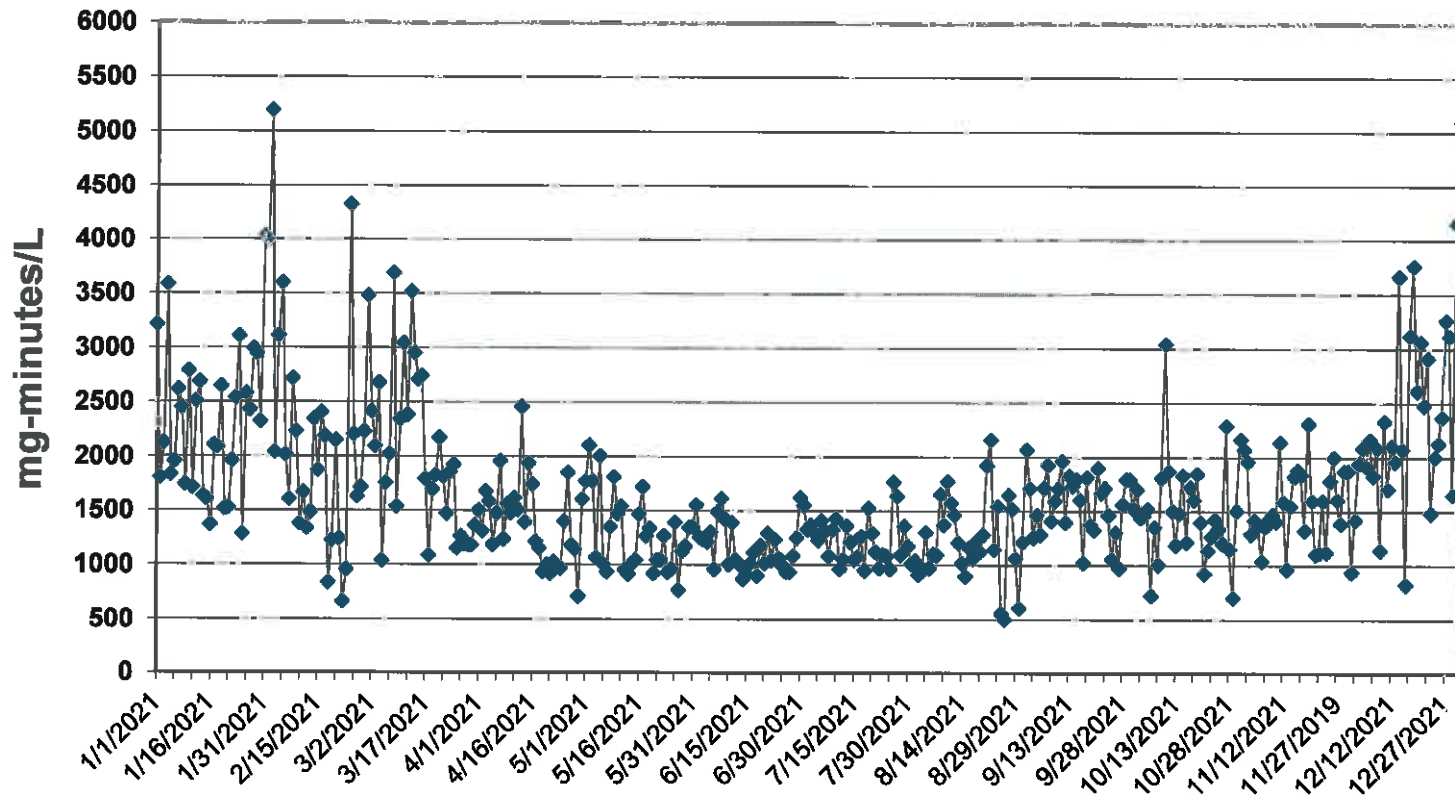


GREEN ACRES PROJECT CCBE CHLORINE RESIDUALS



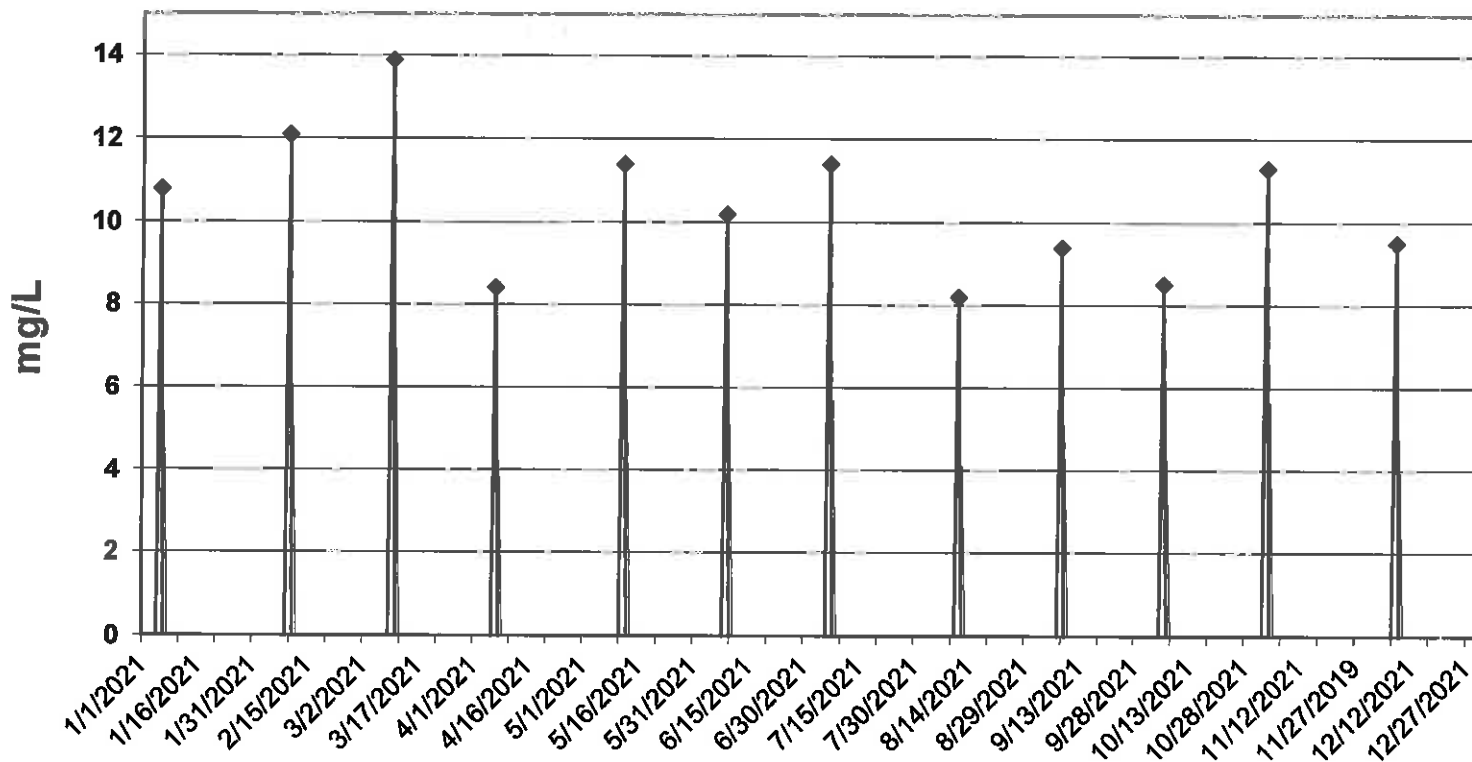
GREEN ACRES PROJECT

Daily Minimum CCB CONCENTRATION TIME (CT)

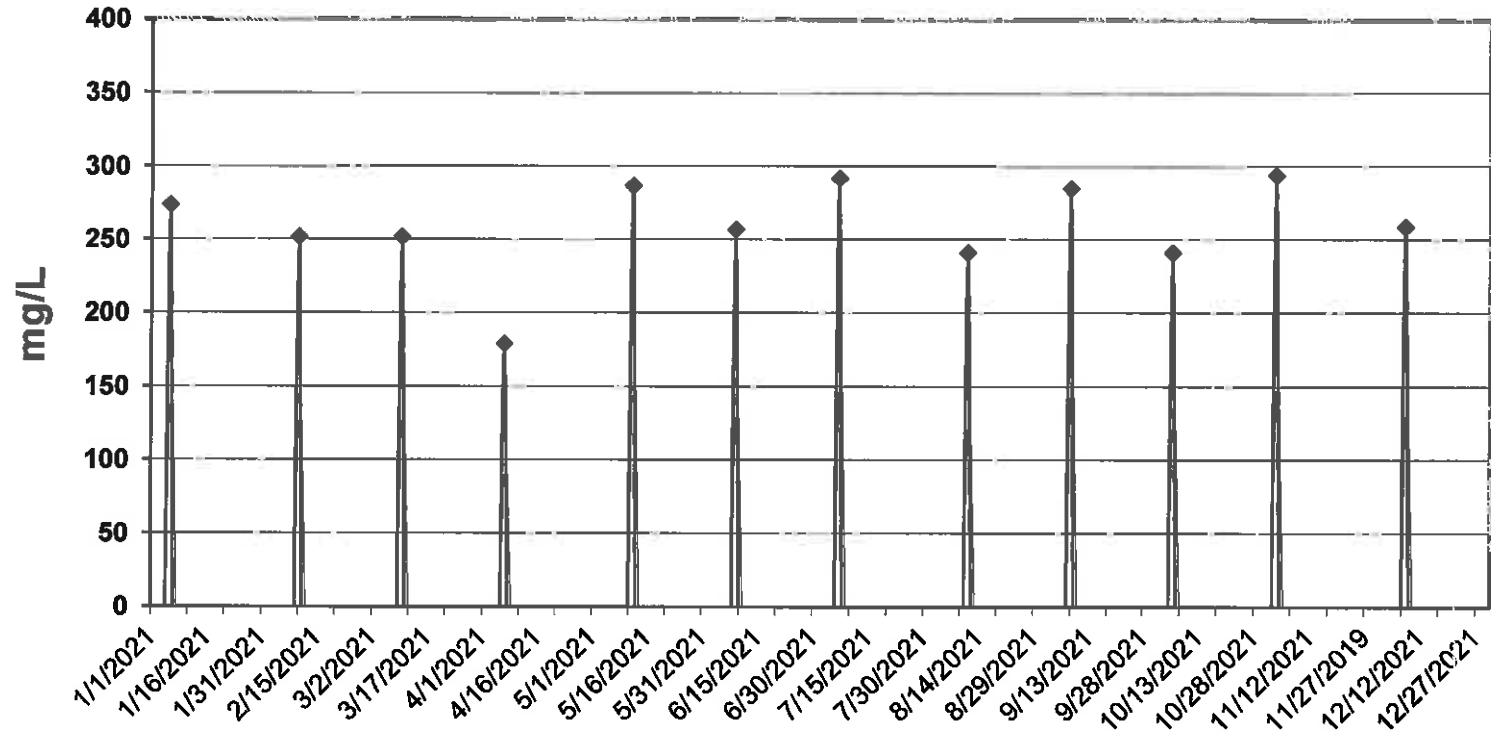


GREEN ACRES PROJECT

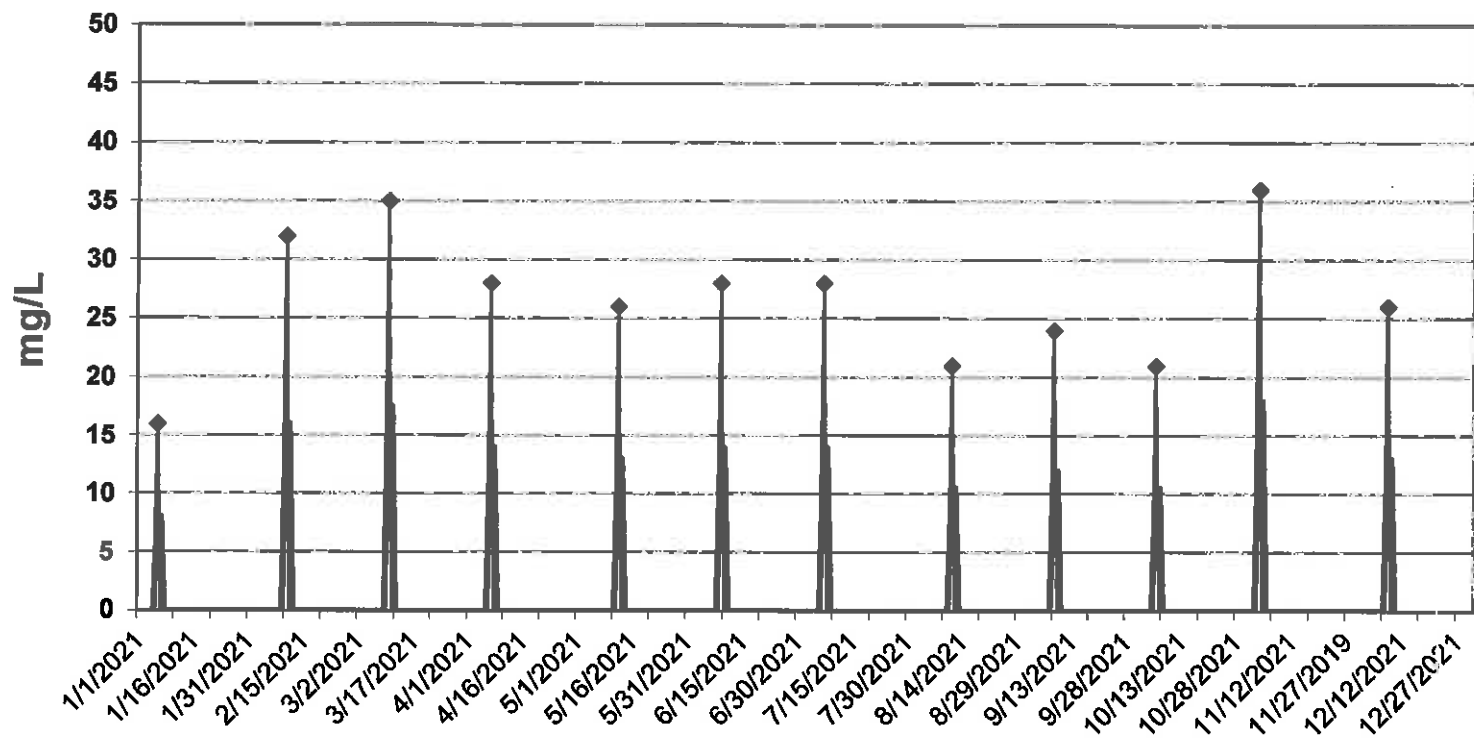
TOTAL ORGANIC CARBON, HPEP



GREEN ACRES PROJECT TOTAL HARDNESS, HPEP

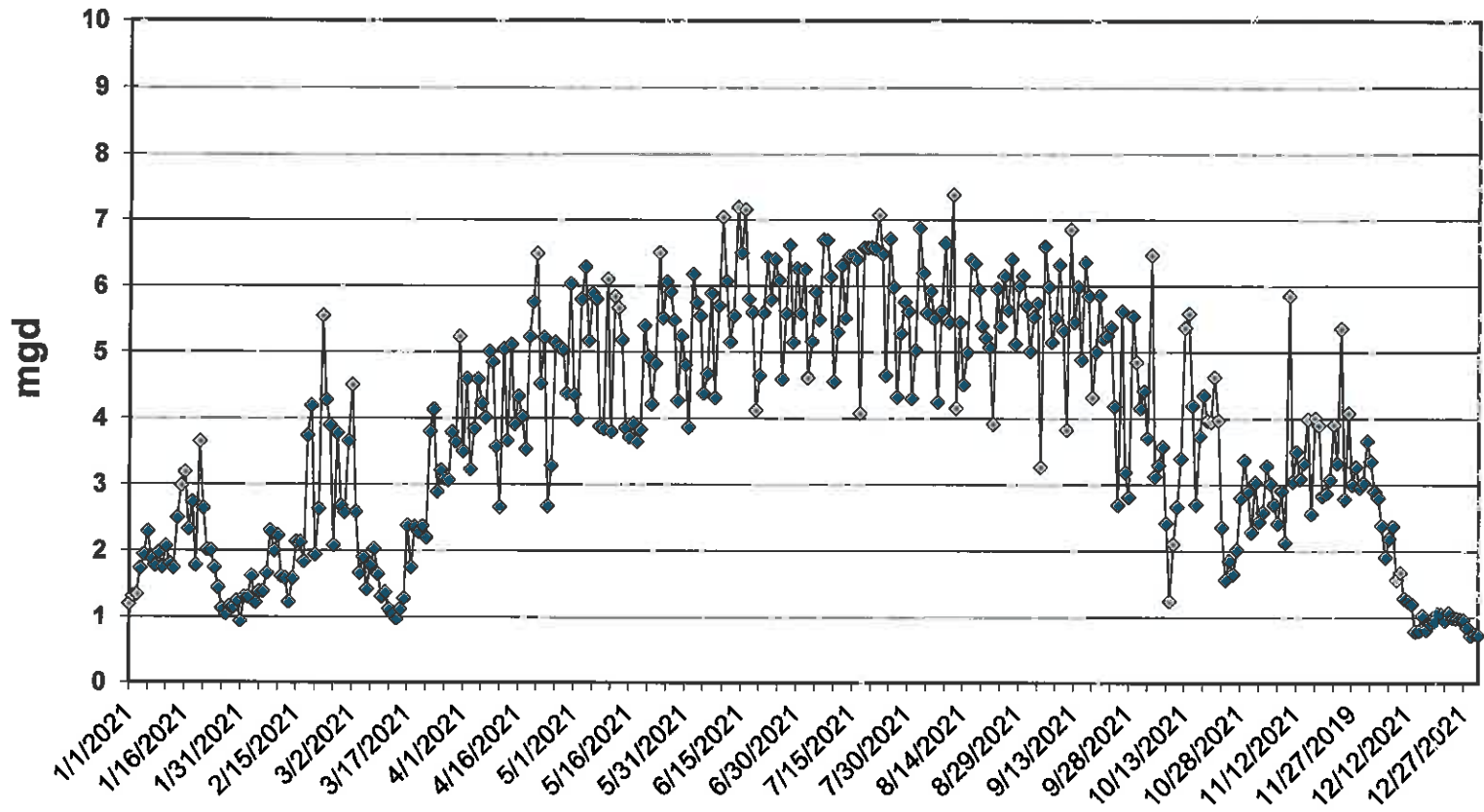


GREEN ACRES PROJECT CHEMICAL OXYGEN DEMAND, HPEP



GREEN ACRES PROJECT

EFFLUENT FLOW, HPEP



**ORANGE COUNTY WATER DISTRICT
HISTORICAL SAMPLE INFORMATION AND RESULTS**

Station Name: MSP-10P/1
 Station Type: WELL CASING
 Perf Interval (ft bgs): 40-50
 Aquifer: PERCHED

Well Owner: ORANGE COUNTY WATER DISTRICT
 Well Name: MSP-10P
 City: FOUNTAIN VALLEY

Sample Group ID: 20020821
 Sample ID: 20042417
 Sample Date/Time: 08/30/2021 11:00
 End Sample Date/Time:

Lab Sample Number: 21080657-06
 Laboratory: OCWD
 Analysis Requested: CLO4

Sample Depth(ft):
 Sample Matrix: WATER
 Sampling Method: SUBMERSIBLE PUMP
 Sampling Agency: ORANGE COUNTY WATER DISTRICT
 Monitoring Program: Green Acres Project
 Sampled By: PKH/ZGB

FIELD PARAMETERS
 EC (umhos/cm): NA
 pH (UNITS): NA
 Temperature (°C): NA
 Dissolved Oxygen (mg/L): NA
 Dissolved Oxygen Temperature (°C): NA
 Total Chlorine (mg/L): NA
 Free Chlorine (mg/L): NA

Comments: 100 GAL. TO SEWER; SILTY

Abbreviation	Parameter Name	Analysis Method	Analysis Dates		Results		Detection Limit		Lab Qualifiers
			Start	End	Value	Units	Value	Units	
Reported Values									
<i>Data Access: Approved for External Use Qualifier: Validated Sample</i>									
CLO4	Perchlorate	332.0	09/08/2021	09/08/2021	<2	ug/L	2	ug/L	

**ORANGE COUNTY WATER DISTRICT
HISTORICAL SAMPLE INFORMATION AND RESULTS**

Station Name: MSP-10P/1
 Station Type: WELL CASING
 Perf Interval (ft bgs): 40-50
 Aquifer: PERCHED

Well Owner: ORANGE COUNTY WATER DISTRICT
 Well Name: MSP-10P
 City: FOUNTAIN VALLEY

Sample Group ID: 20020821
 Sample ID: 20043006
 Sample Date/Time: 08/30/2021 11:00
 End Sample Date/Time:
 Sample Depth(ft):
 Sample Matrix: WATER
 Sampling Method: SUBMERSIBLE PUMP
 Sampling Agency: ORANGE COUNTY WATER DISTRICT
 Monitoring Program: Green Acres Project
 Sampled By: PKH/ZGB

Lab Sample Number: 21080657-02
 Laboratory: OCWD
 Analysis Requested: 524
FIELD PARAMETERS
 EC (umhos/cm): NA
 pH (UNITS): NA
 Temperature (°C): NA
 Dissolved Oxygen (mg/L): NA
 Dissolved Oxygen Temperature (°C): NA
 Total Chlorine (mg/L): NA
 Free Chlorine (mg/L): NA

Comments: 100 GAL. TO SEWER; SILTY

Abbreviation	Parameter Name	Analysis Method	Analysis Dates		Results		Detection Limit		Lab Qualifiers
			Start	End	Value	Units	Value	Units	
Reported Values									
<i>Data Access: Approved for External Use Qualifier: Validated Sample</i>									
1112PC	1,1,1,2-Tetrachloroethane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
111TCA	1,1,1-Trichloroethane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
1122PC	1,1,2,2-Tetrachloroethane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
112TCA	1,1,2-Trichloroethane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
11DCA	1,1-Dichloroethane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
11DCE	1,1-Dichloroethene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
11DCP	1,1-Dichloropropene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
123TCB	1,2,3-Trichlorobenzene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
123TCP	1,2,3-Trichloropropane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
124TCB	1,2,4-Trichlorobenzene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
124TMB	1,2,4-Trimethylbenzene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
12DCA	1,2-Dichloroethane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
12DCB	1,2-Dichlorobenzene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
12DCP	1,2-Dichloropropane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
135TMB	1,3,5-Trimethylbenzene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
13DCB	1,3-Dichlorobenzene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
13DCP	1,3-Dichloropropane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
14DCB	1,4-Dichlorobenzene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
22DCP	2,2-Dichloropropane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
2CLTOL	2-Chlorotoluene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
4CLTOL	4-Chlorotoluene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
4IPTOL	4-Isopropyltoluene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
ACETNE	Acetone	524.2	09/03/2021	09/03/2021	ND	ug/L	10	ug/L	
B2CLEE	bis (2-chloroethyl) ether	524.2	09/03/2021	09/03/2021	ND	ug/L	2.5	ug/L	
BENZ	Benzene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
BRBENZ	Bromobenzene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
c12DCE	cis-1,2-Dichloroethene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
c13DCP	cis-1,3-Dichloropropene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
CCI2F2	Dichlorodifluoromethane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	

**ORANGE COUNTY WATER DISTRICT
HISTORICAL SAMPLE INFORMATION AND RESULTS**

Station Name: MSP-10P/1
 Station Type: WELL CASING
 Perf Interval (ft bgs): 40-50
 Aquifer: PERCHED

Well Owner: ORANGE COUNTY WATER DISTRICT
 Well Name: MSP-10P
 City: FOUNTAIN VALLEY

Sample Group ID: 20020821
 Sample ID: 20043006
 Sample Date/Time: 08/30/2021 11:00
 End Sample Date/Time:

Lab Sample Number: 21080657-02
 Laboratory: OCWD

Analysis Requested: 524

FIELD PARAMETERS

Sample Depth(ft):
 Sample Matrix: WATER
 Sampling Method: SUBMERSIBLE PUMP
 Sampling Agency: ORANGE COUNTY WATER DISTRICT
 Monitoring Program: Green Acres Project
 Sampled By: PKH/ZGB

EC (umhos/cm): NA
 pH (UNITS): NA
 Temperature (°C): NA
 Dissolved Oxygen (mg/L): NA
 Dissolved Oxygen Temperature (°C): NA
 Total Chlorine (mg/L): NA
 Free Chlorine (mg/L): NA

Comments: 100 GAL. TO SEWER; SILTY

Abbreviation	Parameter Name	Analysis Method	Analysis Dates		Results		Detection Limit		Lab Qualifiers
			Start	End	Value	Units	Value	Units	
Reported Values									
<i>Data Access: Approved for External Use Qualifier: Validated Sample</i>									
CCI3F	Trichlorofluoromethane (Freon 11)	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
CCI4	Carbon tetrachloride	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
CH2Br2	Dibromomethane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
CH2BrC	Bromochloromethane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
CH2Cl2	Methylene Chloride	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
CH3Br	Bromomethane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
CH3Cl	Chloromethane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
CHBr2C	Dibromochloromethane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
CHBr3	Bromoform	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
CHBrCl	Bromodichloromethane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
CHCl3	Chloroform	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
Cl3F3E	Trichlorotrifluoroethane (Freon 113)	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
CLBENZ	Chlorobenzene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
ClETHA	Chloroethane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
CS2	Carbon Disulfide	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
DBCP	1,2-Dibromo-3-chloropropane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
DIPE	Diisopropyl ether	524.2	09/03/2021	09/03/2021	ND	ug/L	1	ug/L	
EDB	1,2-Dibromoethane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
ETBE	Ethyl tert-butyl ether	524.2	09/03/2021	09/03/2021	ND	ug/L	1	ug/L	
EtBENZ	Ethylbenzene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
FR123A	Freon 123a	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
FREN22	Chlorodifluoromethane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
HCIBut	Hexachlorobutadiene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
ISPBZ	Isopropylbenzene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
MEK	Methyl Ethyl Ketone (MEK)	524.2	09/03/2021	09/03/2021	ND	ug/L	2.5	ug/L	
MIBK	Methyl Isobutyl Ketone (MIBK)	524.2	09/03/2021	09/03/2021	ND	ug/L	2.5	ug/L	
mp-XYL	m,p-Xylene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
MTBE	Methyl tert-butyl ether	524.2	09/03/2021	09/03/2021	ND	ug/L	.2	ug/L	
NAP	Naphthalene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	

**ORANGE COUNTY WATER DISTRICT
HISTORICAL SAMPLE INFORMATION AND RESULTS**

Station Name: MSP-10P/1
 Station Type: WELL CASING
 Perf Interval (ft bgs): 40-50
 Aquifer: PERCHED

Well Owner: ORANGE COUNTY WATER DISTRICT
 Well Name: MSP-10P
 City: FOUNTAIN VALLEY

Sample Group ID: 20020821
 Sample ID: 20043006
 Sample Date/Time: 08/30/2021 11:00
 End Sample Date/Time:

Lab Sample Number: 21080657-02
 Laboratory: OCWD
 Analysis Requested: 524

Sample Depth(ft):
 Sample Matrix: WATER
 Sampling Method: SUBMERSIBLE PUMP
 Sampling Agency: ORANGE COUNTY WATER DISTRICT
 Monitoring Program: Green Acres Project
 Sampled By: PKH/ZGB

FIELD PARAMETERS
 EC (umhos/cm): NA
 pH (UNITS): NA
 Temperature (°C): NA
 Dissolved Oxygen (mg/L): NA
 Dissolved Oxygen Temperature (°C): NA
 Total Chlorine (mg/L): NA
 Free Chlorine (mg/L): NA

Comments: 100 GAL. TO SEWER; SILTY

Abbreviation	Parameter Name	Analysis Method	Analysis Dates		Results		Detection Limit		Lab Qualifiers
			Start	End	Value	Units	Value	Units	
Reported Values									
<i>Data Access: Approved for External Use Qualifier: Validated Sample</i>									
nBBENZ	n-Butylbenzene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
o-XYL	o-Xylene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
PCE	Tetrachloroethene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
PRPBNZ	Propylbenzene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
sBBENZ	sec-Butylbenzene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
STYR	Styrene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
t12DCE	trans-1,2 Dichloroethene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
t13DCP	trans-1,3-Dichloropropene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
TAME	Tert-amyl methyl ether	524.2	09/03/2021	09/03/2021	ND	ug/L	1	ug/L	
TBA	tert-butyl alcohol	524.2	09/03/2021	09/03/2021	ND	ug/L	2	ug/L	
tBBENZ	tert-Butylbenzene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
TCE	Trichloroethene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
TOLU	Toluene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
TOTALX	Total Xylenes (m,p,&o)	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
TTHMs	Total Trihalomethanes	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
VNYLCL	Vinyl chloride	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
x13DCP	Total 1,3-Dichloropropene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	

**ORANGE COUNTY WATER DISTRICT
HISTORICAL SAMPLE INFORMATION AND RESULTS**

Station Name: MSP-10P/1
 Station Type: WELL CASING
 Perf Interval (ft bgs): 40-50
 Aquifer: PERCHED

Well Owner: ORANGE COUNTY WATER DISTRICT
 Well Name: MSP-10P
 City: FOUNTAIN VALLEY

Sample Group ID: 20020821
 Sample ID: 20043007
 Sample Date/Time: 08/30/2021 11:00
 End Sample Date/Time:

Lab Sample Number: 21080657-03
 Laboratory: OCWD
 Analysis Requested: 14DIOX-R

Sample Depth(ft):
 Sample Matrix: WATER
 Sampling Method: SUBMERSIBLE PUMP
 Sampling Agency: ORANGE COUNTY WATER DISTRICT
 Monitoring Program: Green Acres Project
 Sampled By: PKH/ZGB

FIELD PARAMETERS

EC (umhos/cm): NA
 pH (UNITS): NA
 Temperature (°C): NA
 Dissolved Oxygen (mg/L): NA
 Dissolved Oxygen Temperature (°C): NA
 Total Chlorine (mg/L): NA
 Free Chlorine (mg/L): NA

Comments: 100 GAL. TO SEWER; SILTY

Abbreviation	Parameter Name	Analysis Method	Analysis Dates		Results		Detection Limit		Lab Qualifiers
			Start	End	Value	Units	Value	Units	
Reported Values									
<i>Data Access: Approved for External Use Qualifier: Validated Sample</i>									
14DIOX	1,4-Dioxane	14DIOX	09/02/2021	09/02/2021	ND	ug/L	.5	ug/L	

**ORANGE COUNTY WATER DISTRICT
HISTORICAL SAMPLE INFORMATION AND RESULTS**

Station Name: MSP-10P/1
 Station Type: WELL CASING
 Perf Interval (ft bgs): 40-50
 Aquifer: PERCHED

Well Owner: ORANGE COUNTY WATER DISTRICT
 Well Name: MSP-10P
 City: FOUNTAIN VALLEY

Sample Group ID: 20020821
 Sample ID: 20043008
 Sample Date/Time: 08/30/2021 11:00
 End Sample Date/Time:

Lab Sample Number: 21080657-04
 Laboratory: OCWD
 Analysis Requested: NDMA-LOW

Sample Depth(ft):
 Sample Matrix: WATER
 Sampling Method: SUBMERSIBLE PUMP
 Sampling Agency: ORANGE COUNTY WATER DISTRICT
 Monitoring Program: Green Acres Project
 Sampled By: PKH/ZGB

FIELD PARAMETERS
 EC (umhos/cm): NA
 pH (UNITS): NA
 Temperature (°C): NA
 Dissolved Oxygen (mg/L): NA
 Dissolved Oxygen Temperature (°C): NA
 Total Chlorine (mg/L): NA
 Free Chlorine (mg/L): NA

Comments: 100 GAL. TO SEWER; SILTY

Abbreviation	Parameter Name	Analysis Method	Analysis Dates		Results		Detection Limit		Lab Qualifiers
			Start	End	Value	Units	Value	Units	
Reported Values									
<i>Data Access: Approved for External Use Qualifier: Validated Sample</i>									
NDEA	N-Nitrosodiethylamine	NDMA-LOW	09/01/2021	09/03/2021	ND	ng/L	2	ng/L	
NDMA	n-Nitrosodimethylamine	NDMA-LOW	09/01/2021	09/03/2021	ND	ng/L	2	ng/L	
NDPA	n-Nitroso-di-n-propylamine	NDMA-LOW	09/01/2021	09/03/2021	ND	ng/L	2	ng/L	
NMOR	N-Nitrosomorpholine	NDMA-LOW	09/01/2021	09/03/2021	ND	ng/L	2	ng/L	

**ORANGE COUNTY WATER DISTRICT
HISTORICAL SAMPLE INFORMATION AND RESULTS**

Station Name: MSP-10P/1
Station Type: WELL CASING
Perf Interval (ft bgs): 40-50
Aquifer: PERCHED

Well Owner: ORANGE COUNTY WATER DISTRICT
Well Name: MSP-10P
City: FOUNTAIN VALLEY

Sample Group ID: 20020821
Sample ID: 20043907
Sample Date/Time: 08/30/2021 11:00
End Sample Date/Time:

Lab Sample Number: 21080657-05
Laboratory: OCWD
Analysis Requested: GENLVLIN

Sample Depth(ft):
Sample Matrix: WATER
Sampling Method: SUBMERSIBLE PUMP
Sampling Agency: ORANGE COUNTY WATER DISTRICT
Monitoring Program: Green Acres Project
Sampled By: PKH/ZGB

FIELD PARAMETERS
EC (umhos/cm): NA
pH (UNITS): NA
Temperature (°C): NA
Dissolved Oxygen (mg/L): NA
Dissolved Oxygen Temperature (°C): NA
Total Chlorine (mg/L): NA
Free Chlorine (mg/L): NA

Comments: 100 GAL. TO SEWER; SILTY

Abbreviation	Parameter Name	Analysis Method	Analysis Dates		Results		Detection Limit		Lab Qualifiers
			Start	End	Value	Units	Value	Units	
Reported Values									
<i>Data Access: Approved for External Use Qualifier: Validated Sample</i>									
ALKPHE	Alkalinity-Phenolphthalein	2320B	08/30/2021	08/30/2021	<1	mg/L	1	mg/L	
B	Boron	X200.7	08/31/2021	09/01/2021	0.25	mg/L	.1	mg/L	
Br	Bromide	X1-300.0	08/31/2021	09/01/2021	2.2	mg/L	.5	mg/L	
Ca	Calcium	X200.7	08/31/2021	09/01/2021	253	mg/L	.5	mg/L	
Cl	Chloride	X1-300.0	08/31/2021	09/01/2021	177	mg/L	2.5	mg/L	
CO3Ca	Carbonate (as CaCO3)	2320B	08/30/2021	08/30/2021	<1	mg/L	1	mg/L	
EC	Electrical Conductivity	2510B	08/30/2021	08/30/2021	1990	uS/cm	1	uS/cm	
HCO3Ca	Bicarbonate (as CaCO3)	2320B	08/30/2021	08/30/2021	610	mg/L	1	mg/L	
K	Potassium	X200.7	08/31/2021	09/01/2021	6.8	mg/L	.5	mg/L	
Mg	Magnesium	X200.7	08/31/2021	09/01/2021	54.7	mg/L	.5	mg/L	
Na	Sodium	X200.7	08/31/2021	09/01/2021	137	mg/L	.5	mg/L	
NH3-N	Ammonia Nitrogen	350.1	09/17/2021	09/17/2021	0.2	mg/L	.1	mg/L	
NO2-N	Nitrite Nitrogen	4500NO3F	08/31/2021	08/31/2021	0.004	mg/L	.002	mg/L	
NO3-N	Nitrate Nitrogen	X1-300.0	08/31/2021	09/01/2021	<0.1	mg/L	.1	mg/L	
OHCa	Hydroxide (as CaCO3)	2320B	08/30/2021	08/30/2021	<1	mg/L	1	mg/L	
ORG-N	Organic Nitrogen	X1-351.2	09/17/2021	09/22/2021	0.3	mg/L	.1	mg/L	
pH	pH	4500H+B	08/30/2021	08/30/2021	7.5	UNITS	1	UNITS	H15
PO4-P	Phosphate Phosphorus (orthophosphate)	365.1	08/31/2021	08/31/2021	0.14	mg/L	.01	mg/L	
SO4	Sulfate	X1-300.0	08/31/2021	09/01/2021	252	mg/L	2.5	mg/L	
TDS	Total Dissolved Solids	2540C	08/30/2021	08/30/2021	1260	mg/L	2.5	mg/L	
TEMP	Temperature (Laboratory)	4500H+B	08/30/2021	08/30/2021	22.6	C	1	C	
TKN	Total Kjeldahl Nitrogen	X1-351.2	09/17/2021	09/22/2021	0.5	mg/L	.2	mg/L	
TOC	Total Organic Carbon (Unfiltered)	5310C	09/01/2021	09/01/2021	3	mg/L	.05	mg/L	
TOTALK	Total Alkalinity (as CaCO3)	2320B	08/30/2021	08/30/2021	610	mg/L	5	mg/L	
TOTHRD	Total Hardness (as CaCO3)	X200.7	08/31/2021	09/01/2021	856	mg/L	1	mg/L	

**ORANGE COUNTY WATER DISTRICT
HISTORICAL SAMPLE INFORMATION AND RESULTS**

Station Name: MSP-10P/1
 Station Type: WELL CASING
 Perf Interval (ft bgs): 40-50
 Aquifer: PERCHED

Well Owner: ORANGE COUNTY WATER DISTRICT
 Well Name: MSP-10P
 City: FOUNTAIN VALLEY

Sample Group ID: 20020821
 Sample ID: 20043907
 Sample Date/Time: 08/30/2021 11:00
 End Sample Date/Time:

Lab Sample Number: 21080657-05
 Laboratory: OCWD
 Analysis Requested: UNKNOWN

Sample Depth(ft):
 Sample Matrix: WATER
 Sampling Method: SUBMERSIBLE PUMP
 Sampling Agency: ORANGE COUNTY WATER DISTRICT
 Monitoring Program: Green Acres Project
 Sampled By: PKH/ZGB

FIELD PARAMETERS
 EC (umhos/cm): NA
 pH (UNITS): NA
 Temperature (°C): NA
 Dissolved Oxygen (mg/L): NA
 Dissolved Oxygen Temperature (°C): NA
 Total Chlorine (mg/L): NA
 Free Chlorine (mg/L): NA

Comments: 100 GAL. TO SEWER; SILTY

Abbreviation	Parameter Name	Analysis Method	Analysis Dates		Results		Detection Limit		Lab Qualifiers
			Start	End	Value	Units	Value	Units	
Computed Values									
<i>Data Access: Approved for External Use Qualifier: Validated Sample</i>									
AI	Aggressive Index	UNKWQAN			13.086	A.I.			
HCO3	Bicarbonate (as HCO3)	UNKWQAN			743.6	mg/L	1.2	mg/L	
NO2	Nitrite	UNKWQAN			0.013	mg/L	.007	mg/L	
NO3	Nitrate	UNKWQAN			ND	mg/L	.4	mg/L	
NO3NO2-N	Nitrate + Nitrite Nitrogen	UNKWQAN			0	mg/L	.1	mg/L	
T22CAT	Title 22 Total Cations	UNKWQAN			23.26	meq/L			
TOT-N	Total Nitrogen	UNKWQAN			0.5	mg/L	.2	mg/L	

**ORANGE COUNTY WATER DISTRICT
HISTORICAL SAMPLE INFORMATION AND RESULTS**

Station Name: OCWD-GA7/1
 Station Type: WELL CASING
 Perf Interval (ft bgs): 30-40
 Aquifer: UNDEFINED

Well Owner: ORANGE COUNTY WATER DISTRICT
 Well Name: GA-7
 City: SANTA ANA

Sample Group ID: 20020820
 Sample ID: 20042416
 Sample Date/Time: 08/30/2021 09:30
 End Sample Date/Time:
 Sample Depth(ft):
 Sample Matrix: WATER
 Sampling Method: SUBMERSIBLE PUMP
 Sampling Agency: ORANGE COUNTY WATER DISTRICT
 Monitoring Program: Green Acres Project
 Sampled By: PKH/ZGB

Lab Sample Number: 21080656-06
 Laboratory: OCWD
 Analysis Requested: CLO4

FIELD PARAMETERS

EC (umhos/cm): NA
 pH (UNITS): NA
 Temperature (°C): NA
 Dissolved Oxygen (mg/L): NA
 Dissolved Oxygen Temperature (°C): NA
 Total Chlorine (mg/L): NA
 Free Chlorine (mg/L): NA

Comments: 100 GAL. TO DIRT

Abbreviation	Parameter Name	Analysis Method	Analysis Dates		Results Value	Units	Detection Limit		Lab Qualifiers
			Start	End			Value	Units	
Reported Values									
<i>Data Access: Approved for External Use Qualifier: Validated Sample</i>									
CLO4	Perchlorate	332.0	09/09/2021	09/09/2021	<2	ug/L	2	ug/L	

**ORANGE COUNTY WATER DISTRICT
HISTORICAL SAMPLE INFORMATION AND RESULTS**

Station Name: OCWD-GA7/1
 Station Type: WELL CASING
 Perf Interval (ft bgs): 30-40
 Aquifer: UNDEFINED

Well Owner: ORANGE COUNTY WATER DISTRICT
 Well Name: GA-7
 City: SANTA ANA

Sample Group ID: 20020820
 Sample ID: 20043003
 Sample Date/Time: 08/30/2021 09:30
 End Sample Date/Time:
 Sample Depth(ft):
 Sample Matrix: WATER
 Sampling Method: SUBMERSIBLE PUMP
 Sampling Agency: ORANGE COUNTY WATER DISTRICT
 Monitoring Program: Green Acres Project
 Sampled By: PKH/ZGB

Lab Sample Number: 21080656-02
 Laboratory: OCWD

Analysis Requested: 524

FIELD PARAMETERS

EC (umhos/cm): NA
 pH (UNITS): NA
 Temperature (°C): NA
 Dissolved Oxygen (mg/L): NA
 Dissolved Oxygen Temperature (°C): NA
 Total Chlorine (mg/L): NA
 Free Chlorine (mg/L): NA

Comments: 100 GAL. TO DIRT

Abbreviation	Parameter Name	Analysis Method	Analysis Start	Analysis End	Results Value	Results Units	Detection Limit Value	Detection Limit Units	Lab Qualifiers
Reported Values									
<i>Data Access: Approved for External Use Qualifier: Validated Sample</i>									
1112PC	1,1,1,2-Tetrachloroethane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
111TCA	1,1,1-Trichloroethane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
1122PC	1,1,2,2-Tetrachloroethane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
112TCA	1,1,2-Trichloroethane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
11DCA	1,1-Dichloroethane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
11DCE	1,1-Dichloroethene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
11DCP	1,1-Dichloropropene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
123TCB	1,2,3-Trichlorobenzene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
123TCP	1,2,3-Trichloropropane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
124TCB	1,2,4-Trichlorobenzene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
124TMB	1,2,4-Trimethylbenzene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
12DCA	1,2-Dichloroethane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
12DCB	1,2-Dichlorobenzene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
12DCP	1,2-Dichloropropane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
135TMB	1,3,5-Trimethylbenzene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
13DCB	1,3-Dichlorobenzene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
13DCP	1,3-Dichloropropane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
14DCB	1,4-Dichlorobenzene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
22DCP	2,2-Dichloropropane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
2CLTOL	2-Chlorotoluene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
4CLTOL	4-Chlorotoluene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
4IPTOL	4-Isopropyltoluene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
ACETNE	Acetone	524.2	09/03/2021	09/03/2021	ND	ug/L	10	ug/L	
B2CLEE	bis (2-chloroethyl) ether	524.2	09/03/2021	09/03/2021	ND	ug/L	2.5	ug/L	
BENZ	Benzene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
BRBENZ	Bromobenzene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
c12DCE	cis-1,2-Dichloroethene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
c13DCP	cis-1,3-Dichloropropene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
CCI2F2	Dichlorodifluoromethane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	

**ORANGE COUNTY WATER DISTRICT
HISTORICAL SAMPLE INFORMATION AND RESULTS**

Station Name: OCWD-GA7/1
 Station Type: WELL CASING
 Perf Interval (ft bgs): 30-40
 Aquifer: UNDEFINED

Well Owner: ORANGE COUNTY WATER DISTRICT
 Well Name: GA-7
 City: SANTA ANA

Sample Group ID: 20020820
 Sample ID: 20043003
 Sample Date/Time: 08/30/2021 09:30
 End Sample Date/Time:
 Sample Depth(ft):
 Sample Matrix: WATER
 Sampling Method: SUBMERSIBLE PUMP
 Sampling Agency: ORANGE COUNTY WATER DISTRICT
 Monitoring Program: Green Acres Project
 Sampled By: PKH/ZGB

Lab Sample Number: 21080656-02
 Laboratory: OCWD
 Analysis Requested: 524
FIELD PARAMETERS
 EC (umhos/cm): NA
 pH (UNITS): NA
 Temperature (°C): NA
 Dissolved Oxygen (mg/L): NA
 Dissolved Oxygen Temperature (°C): NA
 Total Chlorine (mg/L): NA
 Free Chlorine (mg/L): NA

Comments: 100 GAL. TO DIRT

Abbreviation	Parameter Name	Analysis Method	Analysis Dates		Results		Detection Limit		Lab Qualifiers
			Start	End	Value	Units	Value	Units	
Reported Values									
<i>Data Access: Approved for External Use Qualifier: Validated Sample</i>									
CCI3F	Trichlorofluoromethane (Freon 11)	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
CCI4	Carbon tetrachloride	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
CH2Br2	Dibromomethane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
CH2BrC	Bromochloromethane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
CH2Cl2	Methylene Chloride	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
CH3Br	Bromomethane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
CH3Cl	Chloromethane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
CHBr2C	Dibromochloromethane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
CHBr3	Bromoform	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
CHBrCl	Bromodichloromethane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
CHCl3	Chloroform	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
Cl3F3E	Trichlorotrifluoroethane (Freon 113)	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
CLBENZ	Chlorobenzene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
CIETHA	Chloroethane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
CS2	Carbon Disulfide	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
DBCP	1,2-Dibromo-3-chloropropane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
DIPE	Diisopropyl ether	524.2	09/03/2021	09/03/2021	ND	ug/L	1	ug/L	
EDB	1,2-Dibromoethane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
ETBE	Ethyl tert-butyl ether	524.2	09/03/2021	09/03/2021	ND	ug/L	1	ug/L	
EtBENZ	Ethylbenzene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
FR123A	Freon 123a	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
FREN22	Chlorodifluoromethane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
HCIBut	Hexachlorobutadiene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
ISPBENZ	Isopropylbenzene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
MEK	Methyl Ethyl Ketone (MEK)	524.2	09/03/2021	09/03/2021	ND	ug/L	2.5	ug/L	
MIBK	Methyl Isobutyl Ketone (MIBK)	524.2	09/03/2021	09/03/2021	ND	ug/L	2.5	ug/L	
mp-XYL	m,p-Xylene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
MTBE	Methyl tert-butyl ether	524.2	09/03/2021	09/03/2021	ND	ug/L	.2	ug/L	
NAP	Naphthalene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	

**ORANGE COUNTY WATER DISTRICT
HISTORICAL SAMPLE INFORMATION AND RESULTS**

Station Name: OCWD-GA7/1
 Station Type: WELL CASING
 Perf Interval (ft bgs): 30-40
 Aquifer: UNDEFINED

Well Owner: ORANGE COUNTY WATER DISTRICT
 Well Name: GA-7
 City: SANTA ANA

Sample Group ID: 20020820
 Sample ID: 20043003
 Sample Date/Time: 08/30/2021 09:30
 End Sample Date/Time:
 Sample Depth(ft):
 Sample Matrix: WATER
 Sampling Method: SUBMERSIBLE PUMP
 Sampling Agency: ORANGE COUNTY WATER DISTRICT
 Monitoring Program: Green Acres Project
 Sampled By: PKH/ZGB

Lab Sample Number: 21080656-02
 Laboratory: OCWD
 Analysis Requested: 524
FIELD PARAMETERS
 EC (umhos/cm): NA
 pH (UNITS): NA
 Temperature (°C): NA
 Dissolved Oxygen (mg/L): NA
 Dissolved Oxygen Temperature (°C): NA
 Total Chlorine (mg/L): NA
 Free Chlorine (mg/L): NA

Comments: 100 GAL. TO DIRT

Abbreviation	Parameter Name	Analysis Method	Analysis Dates		Results		Detection Limit		Lab Qualifiers
			Start	End	Value	Units	Value	Units	
Reported Values									
<i>Data Access: Approved for External Use Qualifier: Validated Sample</i>									
nBBENZ	n-Butylbenzene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
o-XYL	o-Xylene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
PCE	Tetrachloroethene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
PRPBNZ	Propylbenzene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
sBBENZ	sec-Butylbenzene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
STYR	Styrene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
t12DCE	trans-1,2 Dichloroethene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
t13DCP	trans-1,3-Dichloropropene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
TAME	Tert-amyl methyl ether	524.2	09/03/2021	09/03/2021	ND	ug/L	1	ug/L	
TBA	tert-butyl alcohol	524.2	09/03/2021	09/03/2021	ND	ug/L	2	ug/L	
tBBENZ	tert-Butylbenzene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
TCE	Trichloroethene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
TOLU	Toluene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
TOTALX	Total Xylenes (m,p,&o)	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
TTHMs	Total Trihalomethanes	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
VNYLCL	Vinyl chloride	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
x13DCP	Total 1,3-Dichloropropene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	

**ORANGE COUNTY WATER DISTRICT
HISTORICAL SAMPLE INFORMATION AND RESULTS**

Station Name: OCWD-GA7/1
 Station Type: WELL CASING
 Perf Interval (ft bgs): 30-40
 Aquifer: UNDEFINED

Well Owner: ORANGE COUNTY WATER DISTRICT
 Well Name: GA-7
 City: SANTA ANA

Sample Group ID: 20020820
 Sample ID: 20043004
 Sample Date/Time: 08/30/2021 09:30
 End Sample Date/Time:
 Sample Depth(ft):
 Sample Matrix: WATER
 Sampling Method: SUBMERSIBLE PUMP
 Sampling Agency: ORANGE COUNTY WATER DISTRICT
 Monitoring Program: Green Acres Project
 Sampled By: PKH/ZGB

Lab Sample Number: 21080656-03
 Laboratory: OCWD
 Analysis Requested: 14DIOX-R

FIELD PARAMETERS

EC (umhos/cm): NA
 pH (UNITS): NA
 Temperature (°C): NA
 Dissolved Oxygen (mg/L): NA
 Dissolved Oxygen Temperature (°C): NA
 Total Chlorine (mg/L): NA
 Free Chlorine (mg/L): NA

Comments: 100 GAL. TO DIRT

Abbreviation	Parameter Name	Analysis Method	Analysis Dates		Results		Detection Limit		Lab Qualifiers
			Start	End	Value	Units	Value	Units	
Reported Values									
<i>Data Access: Approved for External Use Qualifier: Validated Sample</i>									
14DIOX	1,4-Dioxane	14DIOX	09/08/2021	09/08/2021	ND	ug/L	.5	ug/L	

**ORANGE COUNTY WATER DISTRICT
HISTORICAL SAMPLE INFORMATION AND RESULTS**

Station Name: OCWD-GA7/1
 Station Type: WELL CASING
 Perf Interval (ft bgs): 30-40
 Aquifer: UNDEFINED

Well Owner: ORANGE COUNTY WATER DISTRICT
 Well Name: GA-7
 City: SANTA ANA

Sample Group ID: 20020820
 Sample ID: 20043005
 Sample Date/Time: 08/30/2021 09:30
 End Sample Date/Time:
 Sample Depth(ft):
 Sample Matrix: WATER
 Sampling Method: SUBMERSIBLE PUMP
 Sampling Agency: ORANGE COUNTY WATER DISTRICT
 Monitoring Program: Green Acres Project
 Sampled By: PKH/ZGB

Lab Sample Number: 21080656-04
 Laboratory: OCWD
 Analysis Requested: NDMA-LOW

FIELD PARAMETERS

EC (umhos/cm): NA
 pH (UNITS): NA
 Temperature (°C): NA
 Dissolved Oxygen (mg/L): NA
 Dissolved Oxygen Temperature (°C): NA
 Total Chlorine (mg/L): NA
 Free Chlorine (mg/L): NA

Comments: 100 GAL. TO DIRT

Abbreviation	Parameter Name	Analysis Method	Analysis Dates		Results		Detection Limit		Lab Qualifiers
			Start	End	Value	Units	Value	Units	
Reported Values									
<i>Data Access: Approved for External Use Qualifier: Validated Sample</i>									
NDEA	N-Nitrosodiethylamine	NDMA-LOW	09/01/2021	09/03/2021	ND	ng/L	2	ng/L	
NDMA	n-Nitrosodimethylamine	NDMA-LOW	09/01/2021	09/03/2021	ND	ng/L	2	ng/L	
NDPA	n-Nitroso-di-n-propylamine	NDMA-LOW	09/01/2021	09/03/2021	ND	ng/L	2	ng/L	
NMOR	N-Nitrosomorpholine	NDMA-LOW	09/01/2021	09/03/2021	ND	ng/L	2	ng/L	

**ORANGE COUNTY WATER DISTRICT
HISTORICAL SAMPLE INFORMATION AND RESULTS**

Station Name: OCWD-GA7/1
 Station Type: WELL CASING
 Perf Interval (ft bgs): 30-40
 Aquifer: UNDEFINED

Well Owner: ORANGE COUNTY WATER DISTRICT
 Well Name: GA-7
 City: SANTA ANA

Sample Group ID: 20020820
 Sample ID: 20043906
 Sample Date/Time: 08/30/2021 09:30
 End Sample Date/Time:
 Sample Depth(ft):
 Sample Matrix: WATER
 Sampling Method: SUBMERSIBLE PUMP
 Sampling Agency: ORANGE COUNTY WATER DISTRICT
 Monitoring Program: Green Acres Project
 Sampled By: PKH/ZGB

Lab Sample Number: 21080656-05
 Laboratory: OCWD
 Analysis Requested: GENLVLIN
FIELD PARAMETERS
 EC (umhos/cm): NA
 pH (UNITS): NA
 Temperature (°C): NA
 Dissolved Oxygen (mg/L): NA
 Dissolved Oxygen Temperature (°C): NA
 Total Chlorine (mg/L): NA
 Free Chlorine (mg/L): NA

Comments: 100 GAL. TO DIRT

Abbreviation	Parameter Name	Analysis Method	Analysis Dates		Results		Detection Limit		Lab Qualifiers
			Start	End	Value	Units	Value	Units	
Reported Values									
<i>Data Access: Approved for External Use Qualifier: Validated Sample</i>									
ALKPHE	Alkalinity-Phenolphthalein	2320B	08/30/2021	08/30/2021	<1	mg/L	1	mg/L	
B	Boron	X200.7	08/31/2021	09/01/2021	0.18	mg/L	.1	mg/L	
Br	Bromide	X1-300.0	08/31/2021	09/01/2021	1.2	mg/L	.5	mg/L	
Ca	Calcium	X200.7	08/31/2021	09/01/2021	380	mg/L	.5	mg/L	
Cl	Chloride	X1-300.0	08/31/2021	09/01/2021	360	mg/L	2.5	mg/L	
CO3Ca	Carbonate (as CaCO3)	2320B	08/30/2021	08/30/2021	<1	mg/L	1	mg/L	
EC	Electrical Conductivity	2510B	08/30/2021	08/30/2021	3340	uS/cm	1	uS/cm	
HCO3Ca	Bicarbonate (as CaCO3)	2320B	08/30/2021	08/30/2021	223	mg/L	1	mg/L	
K	Potassium	X200.7	08/31/2021	09/01/2021	4	mg/L	.5	mg/L	
Mg	Magnesium	X200.7	08/31/2021	09/01/2021	123	mg/L	1	mg/L	
Na	Sodium	X200.7	08/31/2021	09/01/2021	228	mg/L	.5	mg/L	
NH3-N	Ammonia Nitrogen	350.1	09/17/2021	09/17/2021	<0.1	mg/L	.1	mg/L	
NO2-N	Nitrite Nitrogen	4500NO3F	08/31/2021	08/31/2021	0.016	mg/L	.002	mg/L	
NO3-N	Nitrate Nitrogen	X1-300.0	08/31/2021	09/01/2021	2.59	mg/L	.5	mg/L	
OHCa	Hydroxide (as CaCO3)	2320B	08/30/2021	08/30/2021	<1	mg/L	1	mg/L	
ORG-N	Organic Nitrogen	X1-351.2	09/17/2021	09/22/2021	0.2	mg/L	.1	mg/L	
pH	pH	4500H+B	08/30/2021	08/30/2021	7.6	UNITS	1	UNITS	H15
PO4-P	Phosphate Phosphorus (orthophosphate)	365.1	08/31/2021	08/31/2021	0.04	mg/L	.01	mg/L	
SO4	Sulfate	X1-300.0	08/31/2021	09/01/2021	1220	mg/L	25	mg/L	
TDS	Total Dissolved Solids	2540C	08/30/2021	08/30/2021	2690	mg/L	2.5	mg/L	
TEMP	Temperature (Laboratory)	4500H+B	08/30/2021	08/30/2021	22.7	C	1	C	
TKN	Total Kjeldahl Nitrogen	X1-351.2	09/17/2021	09/22/2021	0.3	mg/L	.2	mg/L	
TOC	Total Organic Carbon (Unfiltered)	5310C	09/01/2021	09/01/2021	0.9	mg/L	.05	mg/L	
TOTALK	Total Alkalinity (as CaCO3)	2320B	08/30/2021	08/30/2021	223	mg/L	5	mg/L	
TOTHRD	Total Hardness (as CaCO3)	X200.7	08/31/2021	09/01/2021	1450	mg/L	1	mg/L	

**ORANGE COUNTY WATER DISTRICT
HISTORICAL SAMPLE INFORMATION AND RESULTS**

Station Name: OCWD-GA7/1
 Station Type: WELL CASING
 Perf Interval (ft bgs): 30-40
 Aquifer: UNDEFINED

Well Owner: ORANGE COUNTY WATER DISTRICT
 Well Name: GA-7
 City: SANTA ANA

Sample Group ID: 20020820
 Sample ID: 20043906
 Sample Date/Time: 08/30/2021 09:30
 End Sample Date/Time:
 Sample Depth(ft):
 Sample Matrix: WATER
 Sampling Method: SUBMERSIBLE PUMP
 Sampling Agency: ORANGE COUNTY WATER DISTRICT
 Monitoring Program: Green Acres Project
 Sampled By: PKH/ZGB

Lab Sample Number: 21080656-05
 Laboratory: OCWD
 Analysis Requested: UNKNOWN

FIELD PARAMETERS

EC (umhos/cm): NA
 pH (UNITS): NA
 Temperature (°C): NA
 Dissolved Oxygen (mg/L): NA
 Dissolved Oxygen Temperature (°C): NA
 Total Chlorine (mg/L): NA
 Free Chlorine (mg/L): NA

Comments: 100 GAL. TO DIRT

Abbreviation	Parameter Name	Analysis Method	Analysis Dates		Results		Detection Limit		Lab Qualifiers
			Start	End	Value	Units	Value	Units	
Computed Values									
<i>Data Access: Approved for External Use Qualifier: Validated Sample</i>									
AI	Aggressive Index	UNKWQAN			12.926	A.I.			
HCO3	Bicarbonate (as HCO3)	UNKWQAN			271.8	mg/L	1.2	mg/L	
NO2	Nitrite	UNKWQAN			0.053	mg/L	.007	mg/L	
NO3	Nitrate	UNKWQAN			11.5	mg/L	2.2	mg/L	
NO3NO2-N	Nitrate + Nitrite Nitrogen	UNKWQAN			2.61	mg/L	.5	mg/L	
T22CAT	Title 22 Total Cations	UNKWQAN			39.105	meq/L			
TOT-N	Total Nitrogen	UNKWQAN			2.9	mg/L	.5	mg/L	

**ORANGE COUNTY WATER DISTRICT
HISTORICAL SAMPLE INFORMATION AND RESULTS**

Station Name: OCWD-GA9/1
 Station Type: WELL CASING
 Perf Interval (ft bgs): 19-29
 Aquifer: UNDEFINED

Well Owner: ORANGE COUNTY WATER DISTRICT
 Well Name: GA-9
 City: FOUNTAIN VALLEY

Sample Group ID: 20020824
 Sample ID: 20042419
 Sample Date/Time: 08/30/2021 15:25
 End Sample Date/Time:
 Sample Depth(ft):
 Sample Matrix: WATER
 Sampling Method: SUBMERSIBLE PUMP
 Sampling Agency: ORANGE COUNTY WATER DISTRICT
 Monitoring Program: Green Acres Project
 Sampled By: PKH/ZGB

Lab Sample Number: 21080661-06
 Laboratory: OCWD
 Analysis Requested: CLO4

FIELD PARAMETERS

EC (umhos/cm): NA
 pH (UNITS): NA
 Temperature (°C): NA
 Dissolved Oxygen (mg/L): NA
 Dissolved Oxygen Temperature (°C): NA
 Total Chlorine (mg/L): NA
 Free Chlorine (mg/L): NA

Comments: 30 GAL. TO STORM DRAIN; YELLOW; SILTY; CARBONTREATMENT SMV-8/2

Abbreviation	Parameter Name	Analysis Method	Analysis Dates		Results Value	Units	Detection Limit		Lab Qualifiers
			Start	End			Value	Units	
Reported Values									
<i>Data Access: Approved for External Use Qualifier: Validated Sample</i>									
CLO4	Perchlorate	332.0	09/08/2021	09/08/2021	<2	ug/L	2	ug/L	

**ORANGE COUNTY WATER DISTRICT
HISTORICAL SAMPLE INFORMATION AND RESULTS**

Station Name: OCWD-GA9/1
 Station Type: WELL CASING
 Perf Interval (ft bgs): 19-29
 Aquifer: UNDEFINED

Well Owner: ORANGE COUNTY WATER DISTRICT
 Well Name: GA-9
 City: FOUNTAIN VALLEY

Sample Group ID: 20020824
 Sample ID: 20043013
 Sample Date/Time: 08/30/2021 15:25
 End Sample Date/Time:
 Sample Depth(ft):
 Sample Matrix: WATER
 Sampling Method: SUBMERSIBLE PUMP
 Sampling Agency: ORANGE COUNTY WATER DISTRICT
 Monitoring Program: Green Acres Project
 Sampled By: PKH/ZGB

Lab Sample Number: 21080661-02
 Laboratory: OCWD
 Analysis Requested: 524
FIELD PARAMETERS
 EC (umhos/cm): NA
 pH (UNITS): NA
 Temperature (°C): NA
 Dissolved Oxygen (mg/L): NA
 Dissolved Oxygen Temperature (°C): NA
 Total Chlorine (mg/L): NA
 Free Chlorine (mg/L): NA

Comments: 30 GAL. TO STORM DRAIN; YELLOW; SILTY; CARBONTREATMENT SMV-8/2

Abbreviation	Parameter Name	Analysis Method	Analysis Dates		Results		Detection Limit		Lab Qualifiers
			Start	End	Value	Units	Value	Units	
Reported Values									
<i>Data Access: Approved for External Use Qualifier: Validated Sample</i>									
1112PC	1,1,1,2-Tetrachloroethane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
111TCA	1,1,1-Trichloroethane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
1122PC	1,1,2,2-Tetrachloroethane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
112TCA	1,1,2-Trichloroethane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
11DCA	1,1-Dichloroethane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
11DCE	1,1-Dichloroethene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
11DCP	1,1-Dichloropropene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
123TCB	1,2,3-Trichlorobenzene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
123TCP	1,2,3-Trichloropropane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
124TCB	1,2,4-Trichlorobenzene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
124TMB	1,2,4-Trimethylbenzene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
12DCA	1,2-Dichloroethane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
12DCB	1,2-Dichlorobenzene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
12DCP	1,2-Dichloropropane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
135TMB	1,3,5-Trimethylbenzene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
13DCB	1,3-Dichlorobenzene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
13DCP	1,3-Dichloropropane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
14DCB	1,4-Dichlorobenzene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
22DCP	2,2-Dichloropropane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
2CLTOL	2-Chlorotoluene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
4CLTOL	4-Chlorotoluene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
4IPTOL	4-Isopropyltoluene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
ACETNE	Acetone	524.2	09/03/2021	09/03/2021	ND	ug/L	10	ug/L	
B2CLEE	bis (2-chloroethyl) ether	524.2	09/03/2021	09/03/2021	ND	ug/L	2.5	ug/L	
BENZ	Benzene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
BRBENZ	Bromobenzene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
c12DCE	cis-1,2-Dichloroethene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
c13DCP	cis-1,3-Dichloropropene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
CCI2F2	Dichlorodifluoromethane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	

**ORANGE COUNTY WATER DISTRICT
HISTORICAL SAMPLE INFORMATION AND RESULTS**

Station Name: OCWD-GA9/1
 Station Type: WELL CASING
 Perf Interval (ft bgs): 19-29
 Aquifer: UNDEFINED

Well Owner: ORANGE COUNTY WATER DISTRICT
 Well Name: GA-9
 City: FOUNTAIN VALLEY

Sample Group ID: 20020824
 Sample ID: 20043013
 Sample Date/Time: 08/30/2021 15:25
 End Sample Date/Time:
 Sample Depth(ft):
 Sample Matrix: WATER
 Sampling Method: SUBMERSIBLE PUMP
 Sampling Agency: ORANGE COUNTY WATER DISTRICT
 Monitoring Program: Green Acres Project
 Sampled By: PKH/ZGB

Lab Sample Number: 21080661-02
 Laboratory: OCWD
 Analysis Requested: 524
FIELD PARAMETERS
 EC (umhos/cm): NA
 pH (UNITS): NA
 Temperature (°C): NA
 Dissolved Oxygen (mg/L): NA
 Dissolved Oxygen Temperature (°C): NA
 Total Chlorine (mg/L): NA
 Free Chlorine (mg/L): NA

Comments: 30 GAL. TO STORM DRAIN; YELLOW; SILTY; CARBONTREATMENT SMV-8/2

Abbreviation	Parameter Name	Analysis Method	Analysis Dates		Results		Detection Limit		Lab Qualifiers
			Start	End	Value	Units	Value	Units	
Reported Values									
<i>Data Access: Approved for External Use Qualifier: Validated Sample</i>									
CCI3F	Trichlorofluoromethane (Freon 11)	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
CCI4	Carbon tetrachloride	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
CH2Br2	Dibromomethane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
CH2BrC	Bromochloromethane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
CH2Cl2	Methylene Chloride	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
CH3Br	Bromomethane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
CH3Cl	Chloromethane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
CHBr2C	Dibromochloromethane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
CHBr3	Bromoform	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
CHBrCl	Bromodichloromethane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
CHCl3	Chloroform	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
Cl3F3E	Trichlorotrifluoroethane (Freon 113)	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
CLBENZ	Chlorobenzene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
ClETHA	Chloroethane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
CS2	Carbon Disulfide	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
DBCP	1,2-Dibromo-3-chloropropane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
DIPE	Diisopropyl ether	524.2	09/03/2021	09/03/2021	ND	ug/L	1	ug/L	
EDB	1,2-Dibromoethane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
ETBE	Ethyl tert-butyl ether	524.2	09/03/2021	09/03/2021	ND	ug/L	1	ug/L	
EtBENZ	Ethylbenzene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
FR123A	Freon 123a	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
FREN22	Chlorodifluoromethane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
HCIBut	Hexachlorobutadiene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
ISPBZ	Isopropylbenzene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
MEK	Methyl Ethyl Ketone (MEK)	524.2	09/03/2021	09/03/2021	ND	ug/L	2.5	ug/L	
MIBK	Methyl Isobutyl Ketone (MIBK)	524.2	09/03/2021	09/03/2021	ND	ug/L	2.5	ug/L	
mp-XYL	m,p-Xylene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
MTBE	Methyl tert-butyl ether	524.2	09/03/2021	09/03/2021	ND	ug/L	.2	ug/L	
NAP	Naphthalene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	

**ORANGE COUNTY WATER DISTRICT
HISTORICAL SAMPLE INFORMATION AND RESULTS**

Station Name: OCWD-GA9/1
 Station Type: WELL CASING
 Perf Interval (ft bgs): 19-29
 Aquifer: UNDEFINED

Well Owner: ORANGE COUNTY WATER DISTRICT
 Well Name: GA-9
 City: FOUNTAIN VALLEY

Sample Group ID: 20020824
 Sample ID: 20043013
 Sample Date/Time: 08/30/2021 15:25
 End Sample Date/Time:
 Sample Depth(ft):
 Sample Matrix: WATER
 Sampling Method: SUBMERSIBLE PUMP
 Sampling Agency: ORANGE COUNTY WATER DISTRICT
 Monitoring Program: Green Acres Project
 Sampled By: PKH/ZGB

Lab Sample Number: 21080661-02
 Laboratory: OCWD
 Analysis Requested: 524
FIELD PARAMETERS
 EC (umhos/cm): NA
 pH (UNITS): NA
 Temperature (°C): NA
 Dissolved Oxygen (mg/L): NA
 Dissolved Oxygen Temperature (°C): NA
 Total Chlorine (mg/L): NA
 Free Chlorine (mg/L): NA

Comments: 30 GAL. TO STORM DRAIN; YELLOW; SILTY; CARBONTREATMENT SMV-8/2

Abbreviation	Parameter Name	Analysis Method	Analysis Dates		Results		Detection Limit		Lab Qualifiers
			Start	End	Value	Units	Value	Units	
Reported Values									
<i>Data Access: Approved for External Use Qualifier: Validated Sample</i>									
nBBENZ	n-Butylbenzene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
o-XYL	o-Xylene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
PCE	Tetrachloroethene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
PRPBNZ	Propylbenzene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
sBBENZ	sec-Butylbenzene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
STYR	Styrene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
t12DCE	trans-1,2 Dichloroethene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
t13DCP	trans-1,3-Dichloropropene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
TAME	Tert-amyl methyl ether	524.2	09/03/2021	09/03/2021	ND	ug/L	1	ug/L	
TBA	tert-butyl alcohol	524.2	09/03/2021	09/03/2021	ND	ug/L	2	ug/L	
tBBENZ	tert-Butylbenzene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
TCE	Trichloroethene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
TOLU	Toluene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
TOTALX	Total Xylenes (m,p,&o)	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
TTHMs	Total Trihalomethanes	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
VNYLCL	Vinyl chloride	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
x13DCP	Total 1,3-Dichloropropene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	

**ORANGE COUNTY WATER DISTRICT
HISTORICAL SAMPLE INFORMATION AND RESULTS**

Station Name: OCWD-GA9/1
 Station Type: WELL CASING
 Perf Interval (ft bgs): 19-29
 Aquifer: UNDEFINED

Well Owner: ORANGE COUNTY WATER DISTRICT
 Well Name: GA-9
 City: FOUNTAIN VALLEY

Sample Group ID: 20020824
 Sample ID: 20043014
 Sample Date/Time: 08/30/2021 15:25
 End Sample Date/Time:
 Sample Depth(ft):
 Sample Matrix: WATER
 Sampling Method: SUBMERSIBLE PUMP
 Sampling Agency: ORANGE COUNTY WATER DISTRICT
 Monitoring Program: Green Acres Project
 Sampled By: PKH/ZGB

Lab Sample Number: 21080661-03
 Laboratory: OCWD
 Analysis Requested: 14DIOX-R

FIELD PARAMETERS

EC (umhos/cm): NA
 pH (UNITS): NA
 Temperature (°C): NA
 Dissolved Oxygen (mg/L): NA
 Dissolved Oxygen Temperature (°C): NA
 Total Chlorine (mg/L): NA
 Free Chlorine (mg/L): NA

Comments: 30 GAL. TO STORM DRAIN; YELLOW; SILTY; CARBONTREATMENT SMV-8/2

Abbreviation	Parameter Name	Analysis Method	Analysis Dates		Results		Detection Limit		Lab Qualifiers
			Start	End	Value	Units	Value	Units	
Reported Values									
<i>Data Access: Approved for External Use Qualifier: Validated Sample</i>									
14DIOX	1,4-Dioxane	14DIOX	09/02/2021	09/02/2021	3.6	ug/L	.5	ug/L	

**ORANGE COUNTY WATER DISTRICT
HISTORICAL SAMPLE INFORMATION AND RESULTS**

Station Name: OCWD-GA9/1
 Station Type: WELL CASING
 Perf Interval (ft bgs): 19-29
 Aquifer: UNDEFINED

Well Owner: ORANGE COUNTY WATER DISTRICT
 Well Name: GA-9
 City: FOUNTAIN VALLEY

Sample Group ID: 20020824
 Sample ID: 20043015
 Sample Date/Time: 08/30/2021 15:25
 End Sample Date/Time:
 Sample Depth(ft):
 Sample Matrix: WATER
 Sampling Method: SUBMERSIBLE PUMP
 Sampling Agency: ORANGE COUNTY WATER DISTRICT
 Monitoring Program: Green Acres Project
 Sampled By: PKH/ZGB

Lab Sample Number: 21080661-04
 Laboratory: OCWD
 Analysis Requested: NDMA-LOW

FIELD PARAMETERS

EC (umhos/cm): NA
 pH (UNITS): NA
 Temperature (°C): NA
 Dissolved Oxygen (mg/L): NA
 Dissolved Oxygen Temperature (°C): NA
 Total Chlorine (mg/L): NA
 Free Chlorine (mg/L): NA

Comments: 30 GAL. TO STORM DRAIN; YELLOW; SILTY; CARBONTREATMENT SMV-8/2

Abbreviation	Parameter Name	Analysis Method	Analysis Dates		Results		Detection Limit		Lab Qualifiers
			Start	End	Value	Units	Value	Units	
Reported Values									
<i>Data Access: Approved for External Use Qualifier: Validated Sample</i>									
NDEA	N-Nitrosodiethylamine	NDMA-LOW	09/01/2021	09/03/2021	ND	ng/L	2	ng/L	
NDMA	n-Nitrosodimethylamine	NDMA-LOW	09/01/2021	09/03/2021	ND	ng/L	2	ng/L	
NDPA	n-Nitroso-di-n-propylamine	NDMA-LOW	09/01/2021	09/03/2021	ND	ng/L	2	ng/L	
NMOR	N-Nitrosomorpholine	NDMA-LOW	09/01/2021	09/03/2021	ND	ng/L	2	ng/L	

**ORANGE COUNTY WATER DISTRICT
HISTORICAL SAMPLE INFORMATION AND RESULTS**

Station Name: OCWD-GA9/1
 Station Type: WELL CASING
 Perf Interval (ft bgs): 19-29
 Aquifer: UNDEFINED

Well Owner: ORANGE COUNTY WATER DISTRICT
 Well Name: GA-9
 City: FOUNTAIN VALLEY

Sample Group ID: 20020824
 Sample ID: 20043909
 Sample Date/Time: 08/30/2021 15:25
 End Sample Date/Time:
 Sample Depth(ft):
 Sample Matrix: WATER
 Sampling Method: SUBMERSIBLE PUMP
 Sampling Agency: ORANGE COUNTY WATER DISTRICT
 Monitoring Program: Green Acres Project
 Sampled By: PKH/ZGB

Lab Sample Number: 21080661-05
 Laboratory: OCWD
 Analysis Requested: GENLVLIN
FIELD PARAMETERS
 EC (umhos/cm): NA
 pH (UNITS): NA
 Temperature (°C): NA
 Dissolved Oxygen (mg/L): NA
 Dissolved Oxygen Temperature (°C): NA
 Total Chlorine (mg/L): NA
 Free Chlorine (mg/L): NA

Comments: 30 GAL. TO STORM DRAIN; YELLOW; SILTY; CARBONTREATMENT SMV-8/2

Abbreviation	Parameter Name	Analysis Method	Analysis Dates		Results		Detection Limit		Lab Qualifiers
			Start	End	Value	Units	Value	Units	
Reported Values									
<i>Data Access: Approved for External Use Qualifier: Validated Sample</i>									
ALKPHE	Alkalinity-Phenolphthalein	2320B	08/30/2021	08/30/2021	<1	mg/L	1	mg/L	
B	Boron	X200.7	08/31/2021	09/01/2021	0.28	mg/L	.1	mg/L	
Br	Bromide	X1-300.0	08/31/2021	09/01/2021	1.1	mg/L	1	mg/L	
Ca	Calcium	X200.7	08/31/2021	09/01/2021	184	mg/L	.5	mg/L	
Cl	Chloride	X1-300.0	08/31/2021	09/01/2021	166	mg/L	5	mg/L	
CO3Ca	Carbonate (as CaCO3)	2320B	08/30/2021	08/30/2021	<1	mg/L	1	mg/L	
EC	Electrical Conductivity	2510B	08/30/2021	08/30/2021	1770	uS/cm	1	uS/cm	
HCO3Ca	Bicarbonate (as CaCO3)	2320B	08/30/2021	08/30/2021	452	mg/L	1	mg/L	
K	Potassium	X200.7	08/31/2021	09/01/2021	6.5	mg/L	.5	mg/L	
Mg	Magnesium	X200.7	08/31/2021	09/01/2021	48.3	mg/L	.5	mg/L	
Na	Sodium	X200.7	08/31/2021	09/01/2021	154	mg/L	.5	mg/L	
NH3-N	Ammonia Nitrogen	350.1	09/17/2021	09/17/2021	0.3	mg/L	.1	mg/L	
NO2-N	Nitrite Nitrogen	4500NO3F	08/31/2021	08/31/2021	0.005	mg/L	.002	mg/L	
NO3-N	Nitrate Nitrogen	X1-300.0	08/31/2021	09/01/2021	0.19	mg/L	.1	mg/L	
OHCa	Hydroxide (as CaCO3)	2320B	08/30/2021	08/30/2021	<1	mg/L	1	mg/L	
ORG-N	Organic Nitrogen	X1-351.2	09/17/2021	09/22/2021	0.3	mg/L	.1	mg/L	
pH	pH	4500H+B	08/30/2021	08/30/2021	7.5	UNITS	1	UNITS	H15
PO4-P	Phosphate Phosphorus (orthophosphate)	365.1	08/31/2021	08/31/2021	0.03	mg/L	.01	mg/L	
SO4	Sulfate	X1-300.0	08/31/2021	09/01/2021	277	mg/L	5	mg/L	
TDS	Total Dissolved Solids	2540C	08/30/2021	08/30/2021	1190	mg/L	2.5	mg/L	
TEMP	Temperature (Laboratory)	4500H+B	08/30/2021	08/30/2021	22.6	C	1	C	
TKN	Total Kjeldahl Nitrogen	X1-351.2	09/17/2021	09/22/2021	0.5	mg/L	.2	mg/L	
TOC	Total Organic Carbon (Unfiltered)	5310C	09/01/2021	09/01/2021	2.64	mg/L	.05	mg/L	
TOTALK	Total Alkalinity (as CaCO3)	2320B	08/30/2021	08/30/2021	452	mg/L	5	mg/L	
TOTHRD	Total Hardness (as CaCO3)	X200.7	08/31/2021	09/01/2021	659	mg/L	1	mg/L	

**ORANGE COUNTY WATER DISTRICT
HISTORICAL SAMPLE INFORMATION AND RESULTS**

Station Name: OCWD-GA9/1
 Station Type: WELL CASING
 Perf Interval (ft bgs): 19-29
 Aquifer: UNDEFINED

Well Owner: ORANGE COUNTY WATER DISTRICT
 Well Name: GA-9
 City: FOUNTAIN VALLEY

Sample Group ID: 20020824
 Sample ID: 20043909
 Sample Date/Time: 08/30/2021 15:25
 End Sample Date/Time:
 Sample Depth(ft):
 Sample Matrix: WATER
 Sampling Method: SUBMERSIBLE PUMP
 Sampling Agency: ORANGE COUNTY WATER DISTRICT
 Monitoring Program: Green Acres Project
 Sampled By: PKH/ZGB

Lab Sample Number: 21080661-05
 Laboratory: OCWD
 Analysis Requested: UNKNOWN

FIELD PARAMETERS

EC (umhos/cm): NA
 pH (UNITS): NA
 Temperature (°C): NA
 Dissolved Oxygen (mg/L): NA
 Dissolved Oxygen Temperature (°C): NA
 Total Chlorine (mg/L): NA
 Free Chlorine (mg/L): NA

Comments: 30 GAL. TO STORM DRAIN; YELLOW; SILTY; CARBONTREATMENT SMV-8/2

Abbreviation	Parameter Name	Analysis Method	Analysis Dates		Results		Detection Limit		Lab Qualifiers
			Start	End	Value	Units	Value	Units	
Computed Values									
<i>Data Access: Approved for External Use Qualifier: Validated Sample</i>									
AI	Aggressive Index	UNKWQAN			12.817	A.I.			
HCO3	Bicarbonate (as HCO3)	UNKWQAN			551	mg/L	1.2	mg/L	
NO2	Nitrite	UNKWQAN			0.016	mg/L	.007	mg/L	
NO3	Nitrate	UNKWQAN			0.8	mg/L	.4	mg/L	
NO3NO2-N	Nitrate + Nitrite Nitrogen	UNKWQAN			0.2	mg/L	.1	mg/L	
T22CAT	Title 22 Total Cations	UNKWQAN			20.022	meq/L			
TOT-N	Total Nitrogen	UNKWQAN			0.7	mg/L	.2	mg/L	

**ORANGE COUNTY WATER DISTRICT
HISTORICAL SAMPLE INFORMATION AND RESULTS**

Station Name: OCWD-HBM5A/1
 Station Type: WELL CASING
 Perf Interval (ft bgs): 15.7-20.7
 Aquifer: UNDEFINED

Well Owner: ORANGE COUNTY WATER DISTRICT
 Well Name: HBM5A
 City: HUNTINGTON BEACH

Sample Group ID: 20020823
 Sample ID: 20042418
 Sample Date/Time: 08/30/2021 13:30
 End Sample Date/Time:
 Sample Depth(ft):
 Sample Matrix: WATER
 Sampling Method: SUBMERSIBLE PUMP
 Sampling Agency: ORANGE COUNTY WATER DISTRICT
 Monitoring Program: Green Acres Project
 Sampled By: PKH/ZGB

Lab Sample Number: 21080659-06
 Laboratory: OCWD
 Analysis Requested: CLO4

FIELD PARAMETERS

EC (umhos/cm): NA
 pH (UNITS): NA
 Temperature (°C): NA
 Dissolved Oxygen (mg/L): NA
 Dissolved Oxygen Temperature (°C): NA
 Total Chlorine (mg/L): NA
 Free Chlorine (mg/L): NA

Comments: 10 GAL. TO GRASS

Abbreviation	Parameter Name	Analysis Method	Analysis Dates		Results		Detection Limit		Lab Qualifiers
			Start	End	Value	Units	Value	Units	
Reported Values									
<i>Data Access: Approved for External Use Qualifier: Validated Sample</i>									
CLO4	Perchlorate	332.0	09/09/2021	09/09/2021	<2	ug/L	2	ug/L	

**ORANGE COUNTY WATER DISTRICT
HISTORICAL SAMPLE INFORMATION AND RESULTS**

Station Name: OCWD-HBM5A/1
 Station Type: WELL CASING
 Perf Interval (ft bgs): 15.7-20.7
 Aquifer: UNDEFINED

Well Owner: ORANGE COUNTY WATER DISTRICT
 Well Name: HBM5A
 City: HUNTINGTON BEACH

Sample Group ID: 20020823
 Sample ID: 20043010
 Sample Date/Time: 08/30/2021 13:30
 End Sample Date/Time:
 Sample Depth(ft):
 Sample Matrix: WATER
 Sampling Method: SUBMERSIBLE PUMP
 Sampling Agency: ORANGE COUNTY WATER DISTRICT
 Monitoring Program: Green Acres Project
 Sampled By: PKH/ZGB

Lab Sample Number: 21080659-02
 Laboratory: OCWD

Analysis Requested: 524

FIELD PARAMETERS

EC (umhos/cm): NA
 pH (UNITS): NA
 Temperature (°C): NA
 Dissolved Oxygen (mg/L): NA
 Dissolved Oxygen Temperature (°C): NA
 Total Chlorine (mg/L): NA
 Free Chlorine (mg/L): NA

Comments: 10 GAL. TO GRASS

Abbreviation	Parameter Name	Analysis Method	Analysis Dates		Results		Detection Limit		Lab Qualifiers
			Start	End	Value	Units	Value	Units	
Reported Values									
<i>Data Access: Approved for External Use Qualifier: Validated Sample</i>									
1112PC	1,1,1,2-Tetrachloroethane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
111TCA	1,1,1-Trichloroethane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
1122PC	1,1,2,2-Tetrachloroethane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
112TCA	1,1,2-Trichloroethane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
11DCA	1,1-Dichloroethane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
11DCE	1,1-Dichloroethene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
11DCP	1,1-Dichloropropene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
123TCB	1,2,3-Trichlorobenzene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
123TCP	1,2,3-Trichloropropane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
124TCB	1,2,4-Trichlorobenzene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
124TMB	1,2,4-Trimethylbenzene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
12DCA	1,2-Dichloroethane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
12DCB	1,2-Dichlorobenzene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
12DCP	1,2-Dichloropropane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
135TMB	1,3,5-Trimethylbenzene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
13DCB	1,3-Dichlorobenzene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
13DCP	1,3-Dichloropropane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
14DCB	1,4-Dichlorobenzene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
22DCP	2,2-Dichloropropane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
2CLTOL	2-Chlorotoluene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
4CLTOL	4-Chlorotoluene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
4IPTOL	4-Isopropyltoluene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
ACETNE	Acetone	524.2	09/03/2021	09/03/2021	ND	ug/L	10	ug/L	
B2CLEE	bis (2-chloroethyl) ether	524.2	09/03/2021	09/03/2021	ND	ug/L	2.5	ug/L	
BENZ	Benzene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
BRBENZ	Bromobenzene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
c12DCE	cis-1,2-Dichloroethene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
c13DCP	cis-1,3-Dichloropropene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
CCI2F2	Dichlorodifluoromethane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	

**ORANGE COUNTY WATER DISTRICT
HISTORICAL SAMPLE INFORMATION AND RESULTS**

Station Name: OCWD-HBM5A/1
 Station Type: WELL CASING
 Perf Interval (ft bgs): 15.7-20.7
 Aquifer: UNDEFINED

Well Owner: ORANGE COUNTY WATER DISTRICT
 Well Name: HBM5A
 City: HUNTINGTON BEACH

Sample Group ID: 20020823
 Sample ID: 20043010
 Sample Date/Time: 08/30/2021 13:30
 End Sample Date/Time:
 Sample Depth(ft):
 Sample Matrix: WATER
 Sampling Method: SUBMERSIBLE PUMP
 Sampling Agency: ORANGE COUNTY WATER DISTRICT
 Monitoring Program: Green Acres Project
 Sampled By: PKH/ZGB

Lab Sample Number: 21080659-02
 Laboratory: OCWD

Analysis Requested: 524

FIELD PARAMETERS

EC (umhos/cm): NA
 pH (UNITS): NA
 Temperature (°C): NA
 Dissolved Oxygen (mg/L): NA
 Dissolved Oxygen Temperature (°C): NA
 Total Chlorine (mg/L): NA
 Free Chlorine (mg/L): NA

Comments: 10 GAL. TO GRASS

Abbreviation	Parameter Name	Analysis Method	Analysis Dates		Results		Detection Limit		Lab Qualifiers
			Start	End	Value	Units	Value	Units	
Reported Values									
<i>Data Access: Approved for External Use Qualifier: Validated Sample</i>									
CCI3F	Trichlorofluoromethane (Freon 11)	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
CCI4	Carbon tetrachloride	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
CH2Br2	Dibromomethane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
CH2BrC	Bromochloromethane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
CH2Cl2	Methylene Chloride	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
CH3Br	Bromomethane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
CH3Cl	Chloromethane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
CHBr2C	Dibromochloromethane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
CHBr3	Bromoform	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
CHBrCl	Bromodichloromethane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
CHCl3	Chloroform	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
Cl3F3E	Trichlorotrifluoroethane (Freon 113)	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
CLBENZ	Chlorobenzene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
CIETHA	Chloroethane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
CS2	Carbon Disulfide	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
DBCP	1,2-Dibromo-3-chloropropane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
DIPE	Diisopropyl ether	524.2	09/03/2021	09/03/2021	ND	ug/L	1	ug/L	
EDB	1,2-Dibromoethane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
ETBE	Ethyl tert-butyl ether	524.2	09/03/2021	09/03/2021	ND	ug/L	1	ug/L	
EtBENZ	Ethylbenzene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
FR123A	Freon 123a	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
FREN22	Chlorodifluoromethane	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
HCIBut	Hexachlorobutadiene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
ISPBZ	Isopropylbenzene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
MEK	Methyl Ethyl Ketone (MEK)	524.2	09/03/2021	09/03/2021	ND	ug/L	2.5	ug/L	
MIBK	Methyl Isobutyl Ketone (MIBK)	524.2	09/03/2021	09/03/2021	ND	ug/L	2.5	ug/L	
mp-XYL	m,p-Xylene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
MTBE	Methyl tert-butyl ether	524.2	09/03/2021	09/03/2021	ND	ug/L	.2	ug/L	
NAP	Naphthalene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	

**ORANGE COUNTY WATER DISTRICT
HISTORICAL SAMPLE INFORMATION AND RESULTS**

Station Name: OCWD-HBM5A/1
 Station Type: WELL CASING
 Perf Interval (ft bgs): 15.7-20.7
 Aquifer: UNDEFINED

Well Owner: ORANGE COUNTY WATER DISTRICT
 Well Name: HBM5A
 City: HUNTINGTON BEACH

Sample Group ID: 20020823
 Sample ID: 20043010
 Sample Date/Time: 08/30/2021 13:30
 End Sample Date/Time:
 Sample Depth(ft):
 Sample Matrix: WATER
 Sampling Method: SUBMERSIBLE PUMP
 Sampling Agency: ORANGE COUNTY WATER DISTRICT
 Monitoring Program: Green Acres Project
 Sampled By: PKH/ZGB

Lab Sample Number: 21080659-02
 Laboratory: OCWD

Analysis Requested: 524

FIELD PARAMETERS

EC (umhos/cm): NA
 pH (UNITS): NA
 Temperature (°C): NA
 Dissolved Oxygen (mg/L): NA
 Dissolved Oxygen Temperature (°C): NA
 Total Chlorine (mg/L): NA
 Free Chlorine (mg/L): NA

Comments: 10 GAL. TO GRASS

Abbreviation	Parameter Name	Analysis Method	Analysis Dates		Results		Detection Limit		Lab Qualifiers
			Start	End	Value	Units	Value	Units	
Reported Values									
<i>Data Access: Approved for External Use Qualifier: Validated Sample</i>									
nBBENZ	n-Butylbenzene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
o-XYL	o-Xylene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
PCE	Tetrachloroethene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
PRPBNZ	Propylbenzene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
sBBENZ	sec-Butylbenzene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
STYR	Styrene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
t12DCE	trans-1,2 Dichloroethene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
t13DCP	trans-1,3-Dichloropropene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
TAME	Tert-amyl methyl ether	524.2	09/03/2021	09/03/2021	ND	ug/L	1	ug/L	
TBA	tert-butyl alcohol	524.2	09/03/2021	09/03/2021	ND	ug/L	2	ug/L	
tBBENZ	tert-Butylbenzene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
TCE	Trichloroethene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
TOLU	Toluene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
TOTALX	Total Xylenes (m,p,&o)	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
TTHMs	Total Trihalomethanes	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
VNYLCL	Vinyl chloride	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	
x13DCP	Total 1,3-Dichloropropene	524.2	09/03/2021	09/03/2021	ND	ug/L	.5	ug/L	

**ORANGE COUNTY WATER DISTRICT
HISTORICAL SAMPLE INFORMATION AND RESULTS**

Station Name: OCWD-HBM5A/1
 Station Type: WELL CASING
 Perf Interval (ft bgs): 15.7-20.7
 Aquifer: UNDEFINED

Well Owner: ORANGE COUNTY WATER DISTRICT
 Well Name: HBM5A
 City: HUNTINGTON BEACH

Sample Group ID: 20020823
 Sample ID: 20043011
 Sample Date/Time: 08/30/2021 13:30
 End Sample Date/Time:
 Sample Depth(ft):
 Sample Matrix: WATER
 Sampling Method: SUBMERSIBLE PUMP
 Sampling Agency: ORANGE COUNTY WATER DISTRICT
 Monitoring Program: Green Acres Project
 Sampled By: PKH/ZGB

Lab Sample Number: 21080659-03
 Laboratory: OCWD
 Analysis Requested: 14DIOX-R

FIELD PARAMETERS

EC (umhos/cm): NA
 pH (UNITS): NA
 Temperature (°C): NA
 Dissolved Oxygen (mg/L): NA
 Dissolved Oxygen Temperature (°C): NA
 Total Chlorine (mg/L): NA
 Free Chlorine (mg/L): NA

Comments: 10 GAL. TO GRASS

Abbreviation	Parameter Name	Analysis Method	Analysis Dates		Results		Detection Limit		Lab Qualifiers
			Start	End	Value	Units	Value	Units	
Reported Values									
<i>Data Access: Approved for External Use Qualifier: Validated Sample</i>									
14DIOX	1,4-Dioxane	14DIOX	09/02/2021	09/02/2021	ND	ug/L	.5	ug/L	

**ORANGE COUNTY WATER DISTRICT
HISTORICAL SAMPLE INFORMATION AND RESULTS**

Station Name: OCWD-HBM5A/1
 Station Type: WELL CASING
 Perf Interval (ft bgs): 15.7-20.7
 Aquifer: UNDEFINED

Well Owner: ORANGE COUNTY WATER DISTRICT
 Well Name: HBM5A
 City: HUNTINGTON BEACH

Sample Group ID: 20020823
 Sample ID: 20043012
 Sample Date/Time: 08/30/2021 13:30
 End Sample Date/Time:
 Sample Depth(ft):
 Sample Matrix: WATER
 Sampling Method: SUBMERSIBLE PUMP
 Sampling Agency: ORANGE COUNTY WATER DISTRICT
 Monitoring Program: Green Acres Project
 Sampled By: PKH/ZGB

Lab Sample Number: 21080659-04
 Laboratory: OCWD
 Analysis Requested: NDMA-LOW

FIELD PARAMETERS

EC (umhos/cm): NA
 pH (UNITS): NA
 Temperature (°C): NA
 Dissolved Oxygen (mg/L): NA
 Dissolved Oxygen Temperature (°C): NA
 Total Chlorine (mg/L): NA
 Free Chlorine (mg/L): NA

Comments: 10 GAL. TO GRASS

Abbreviation	Parameter Name	Analysis Method	Analysis Dates		Results		Detection Limit		Lab Qualifiers
			Start	End	Value	Units	Value	Units	
Reported Values									
<i>Data Access: Approved for External Use Qualifier: Validated Sample</i>									
NDEA	N-Nitrosodiethylamine	NDMA-LOW	09/01/2021	09/03/2021	ND	ng/L	2	ng/L	
NDMA	n-Nitrosodimethylamine	NDMA-LOW	09/01/2021	09/03/2021	ND	ng/L	2	ng/L	
NDPA	n-Nitroso-di-n-propylamine	NDMA-LOW	09/01/2021	09/03/2021	ND	ng/L	2	ng/L	
NMOR	N-Nitrosomorpholine	NDMA-LOW	09/01/2021	09/03/2021	ND	ng/L	2	ng/L	

**ORANGE COUNTY WATER DISTRICT
HISTORICAL SAMPLE INFORMATION AND RESULTS**

Station Name: OCWD-HBM5A/1
 Station Type: WELL CASING
 Perf Interval (ft bgs): 15.7-20.7
 Aquifer: UNDEFINED

Well Owner: ORANGE COUNTY WATER DISTRICT
 Well Name: HBM5A
 City: HUNTINGTON BEACH

Sample Group ID: 20020823
 Sample ID: 20043908
 Sample Date/Time: 08/30/2021 13:30
 End Sample Date/Time:
 Sample Depth(ft):
 Sample Matrix: WATER
 Sampling Method: SUBMERSIBLE PUMP
 Sampling Agency: ORANGE COUNTY WATER DISTRICT
 Monitoring Program: Green Acres Project
 Sampled By: PKH/ZGB

Lab Sample Number: 21080659-05
 Laboratory: OCWD
 Analysis Requested: GENLVLIN
FIELD PARAMETERS
 EC (umhos/cm): NA
 pH (UNITS): NA
 Temperature (°C): NA
 Dissolved Oxygen (mg/L): NA
 Dissolved Oxygen Temperature (°C): NA
 Total Chlorine (mg/L): NA
 Free Chlorine (mg/L): NA

Comments: 10 GAL. TO GRASS

Abbreviation	Parameter Name	Analysis Method	Analysis Dates		Results		Detection Limit		Lab Qualifiers
			Start	End	Value	Units	Value	Units	
Reported Values									
<i>Data Access: Approved for External Use Qualifier: Validated Sample</i>									
ALKPHE	Alkalinity-Phenolphthalein	2320B	08/30/2021	08/30/2021	<1	mg/L	1	mg/L	
B	Boron	X200.7	08/31/2021	09/01/2021	0.84	mg/L	.1	mg/L	
Br	Bromide	X1-300.0	08/31/2021	09/01/2021	<0.2	mg/L	.2	mg/L	
Ca	Calcium	X200.7	08/31/2021	09/01/2021	626	mg/L	1	mg/L	
Cl	Chloride	X1-300.0	08/31/2021	09/01/2021	170	mg/L	1	mg/L	
CO3Ca	Carbonate (as CaCO3)	2320B	08/30/2021	08/30/2021	<1	mg/L	1	mg/L	
EC	Electrical Conductivity	2510B	08/30/2021	08/30/2021	4440	uS/cm	1	uS/cm	
HCO3Ca	Bicarbonate (as CaCO3)	2320B	08/30/2021	08/30/2021	696	mg/L	1	mg/L	
K	Potassium	X200.7	08/31/2021	09/01/2021	19.9	mg/L	.5	mg/L	
Mg	Magnesium	X200.7	08/31/2021	09/01/2021	130	mg/L	1	mg/L	
Na	Sodium	X200.7	08/31/2021	09/01/2021	340	mg/L	.5	mg/L	
NH3-N	Ammonia Nitrogen	350.1	09/17/2021	09/17/2021	3.5	mg/L	.2	mg/L	
NO2-N	Nitrite Nitrogen	4500NO3F	08/31/2021	08/31/2021	0.009	mg/L	.002	mg/L	
NO3-N	Nitrate Nitrogen	X1-300.0	08/31/2021	09/01/2021	<5	mg/L	5	mg/L	
OHCa	Hydroxide (as CaCO3)	2320B	08/30/2021	08/30/2021	<1	mg/L	1	mg/L	
ORG-N	Organic Nitrogen	X1-351.2	09/17/2021	09/22/2021	<0.1	mg/L	.1	mg/L	
pH	pH	4500H+B	08/30/2021	08/30/2021	7.1	UNITS	1	UNITS	H15
PO4-P	Phosphate Phosphorus (orthophosphate)	365.1	08/31/2021	08/31/2021	0.01	mg/L	.01	mg/L	
SO4	Sulfate	X1-300.0	08/31/2021	09/01/2021	1900	mg/L	25	mg/L	
TDS	Total Dissolved Solids	2540C	09/01/2021	09/01/2021	3750	mg/L	2.5	mg/L	
TEMP	Temperature (Laboratory)	4500H+B	08/30/2021	08/30/2021	22.7	C	1	C	
TKN	Total Kjeldahl Nitrogen	X1-351.2	09/17/2021	09/22/2021	3.3	mg/L	.2	mg/L	
TOC	Total Organic Carbon (Unfiltered)	5310C	09/01/2021	09/01/2021	6.6	mg/L	.05	mg/L	
TOTALK	Total Alkalinity (as CaCO3)	2320B	08/30/2021	08/30/2021	696	mg/L	5	mg/L	
TOTHRD	Total Hardness (as CaCO3)	X200.7	08/31/2021	09/01/2021	2100	mg/L	1	mg/L	

**ORANGE COUNTY WATER DISTRICT
HISTORICAL SAMPLE INFORMATION AND RESULTS**

Station Name: OCWD-HBM5A/1
 Station Type: WELL CASING
 Perf Interval (ft bgs): 15.7-20.7
 Aquifer: UNDEFINED

Well Owner: ORANGE COUNTY WATER DISTRICT
 Well Name: HBM5A
 City: HUNTINGTON BEACH

Sample Group ID: 20020823
 Sample ID: 20043908
 Sample Date/Time: 08/30/2021 13:30
 End Sample Date/Time:
 Sample Depth(ft):
 Sample Matrix: WATER
 Sampling Method: SUBMERSIBLE PUMP
 Sampling Agency: ORANGE COUNTY WATER DISTRICT
 Monitoring Program: Green Acres Project
 Sampled By: PKH/ZGB

Lab Sample Number: 21080659-05
 Laboratory: OCWD
 Analysis Requested: UNKNOWN

FIELD PARAMETERS

EC (umhos/cm): NA
 pH (UNITS): NA
 Temperature (°C): NA
 Dissolved Oxygen (mg/L): NA
 Dissolved Oxygen Temperature (°C): NA
 Total Chlorine (mg/L): NA
 Free Chlorine (mg/L): NA

Comments: 10 GAL. TO GRASS

Abbreviation	Parameter Name	Analysis Method	Analysis Dates		Results		Detection Limit		Lab Qualifiers
			Start	End	Value	Units	Value	Units	
Computed Values									
<i>Data Access: Approved for External Use Qualifier: Validated Sample</i>									
AI	Aggressive Index	UNKWQAN			13.137	A.I.			
HCO3	Bicarbonate (as HCO3)	UNKWQAN			848.4	mg/L	1.2	mg/L	
NO2	Nitrite	UNKWQAN			0.03	mg/L	.007	mg/L	
NO3	Nitrate	UNKWQAN			ND	mg/L	22.1	mg/L	
NO3NO2-N	Nitrate + Nitrite Nitrogen	UNKWQAN			0.01	mg/L	5	mg/L	
T22CAT	Title 22 Total Cations	UNKWQAN			57.236	meq/L			
TOT-N	Total Nitrogen	UNKWQAN			3.3	mg/L	5	mg/L	

Table Name: LAB_QUALIFIERS

Qualifier	Description
*	RPD of the LCS and LCSD exceeds the control limits / LCS or LCSD is outside acceptance limits.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
*5+	Isotope dilution analyte is outside acceptance limits, high biased.
200.8-B1	LRB above method limit of 2.2xMDL but below RL. New MDL based on limited number of trials and will be recalculated as more data are collected.
ABSENT	The result of the analysis shows that the analyte is absent
AN-IP	Sample results for structural isomers may have contribution from their isomeric pair.
b	Result detected in the unseeded control blank (USB).
B	Compound was found in the blank and sample
B-MDL	Analyte was detected in the blank but at a level below the reporting limit.
BS-04	The recovery of this analyte in LCS or LCSD was outside control limit. Sample was accepted based on the remaining LCS, LCSD or LCS-LL.
CEC-B1	Blank results were above the reporting limit. Result is below the reporting limit.
CEC-B2	Blank results were above the reporting limit. Reporting Limit for this analyte has been raised accordingly.
CLO4IR	Isotope Ratio failed after analysis of both neat and diluted samples due to matrix interference.
CR-01	Result exceeds calibration range; sample was diluted prior to preparation. The MDL and MRL were raised due to the dilution.
CR-02	Result exceeds calibration range; sample extract was diluted prior to analysis. The MDL and MRL were raised due to the dilution.
D-01	The percent RPD of the duplicate associated with this sample was outside of the acceptable range. Matrix interference is suspected. Recoveries for LFBs or CCSs bracketing this sample were acceptable.
D-02	Laboratory Duplicates were not analyzed in this batch due to error or duplicate analysis failed. Matrix Spike Duplicates were analyzed for precision in this batch with acceptable RPDs.
D-03	Laboratory Duplicates were not analyzed in this batch due to error or duplicate analysis failed.
D-92	The percent RPD of the duplicate associated with this microbiology sample was outside of the acceptable range.
D-EX	More duplicates submitted than necessary for batch. This duplicate was not analyzed.
D-ND	The result for the sample and/or duplicate was below the detection limit. RPD could not be quantitated. Matrix interference not suspected.
E	Result exceeded calibration range.
E7	Concentration estimated. Internal standard recoveries did not meet laboratory acceptance criteria.
EH	Only qualitative identification of the analyte is possible to due to analyte instability thus not meeting QA acceptance limits . Analyte result is reported as an estimated concentration.
EST	Estimated Value
EST-10	Result exceeds calibration curve and is estimated. Re-analysis not performed due to concerns sample matrix would impact sensitivity and require system maintenance to correct.
f	QC frequency exceedance for Uranium analysis - does not impact these samples; exceedance was at the end of the analytical sequence
F-SC	The staining control used in method 1623 failed.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
H	Sample was prepped or analyzed beyond the specified holding time. A holding time violation has occurred.
h	High recovery in MS/MSD (Uranium by EPA 200.8)
H-R	Hold time exceeded. Cannot re-analyze.
H15	Sample analyzed past the 15-minute holding time.
HC-02	Hydrocarbon pattern present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.
HQ	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
I2	Value is EMPC (estimated maximum possible concentration).
INCT	The incubator temperature went out of the acceptable range during the incubation period of this sample.
IS	Internal Standard (IS) response for this result was not within acceptance limits due to matrix interference
IS-2	IS recoveries were not acceptable even after diluting to reduce matrix effect , but surrogate recoveries were acceptable. Result may be affected by sample matrix.
IS-S	IS and surrogate recoveries were not acceptable even after diluting to reduce matrix effect . Result may be affected by sample matrix.
J	Estimated value. Analyte detected at a level less than the Reporting Limit and greater than or equal to the Method Detection Limit.
I	Low recovery in MS/MSD (Gross Alpha by EPA 900.0)
LABCONTM	Not reported due to lab contamination issue.
LDR	Result exceeds the calibration range but is within the linear dynamic range.

LFB-B	Laboratory Fortified Blank (LFB) value was outside of QC limits, but all other Blanks, LFBs, and CCSs in prep batch were acceptable.
M-02	Due to the nature of matrix interferences, sample was diluted prior to preparation. The MDL and MRL were raised due to the dilution.
M-04	Due to the nature of matrix interferences, sample extract was diluted prior to analysis. The MDL and MRL were raised due to the dilution.
M-D1	Internal Standard (IS) response for this result was not within acceptance limits due to matrix interference. Sample could not be further diluted without raising Method Reporting Limit (MRL) above Detection Limit for Purposes of Reporting (DLR).
M1	Matrix spike recovery was high; the associated blank spike recovery was acceptable.
MB	Excessive matrix effect in this sample affected system sensitivity and requires system maintenance to correct. It is not possible to bracket this sample with an acceptable closing QC check.
ME	Acceptable QC with marginal exceedance per TNI Standard. Method includes 11 or more analytes, QC results within 4 standard deviations.
ME-525.2	Acceptable CCS with marginal exceedance per EPA 525.2. Method allows 10% of CCS analytes outside QC limits.
MI	Due to the nature of matrix interferences, the lab was unable to generate acceptable data for this sample.
MS	The percent Recovery or RPD of the MS or MSD associated with this sample was outside of the acceptable range. Matrix interference is suspected. Recoveries for LFBs or CCSs bracketing this sample were acceptable.
MS-01	The recovery of the matrix spike sample related to this sample is outside of established control limits possibly due to sample matrix interference.
MS-05	The spike recovery and/or RPD were outside acceptance limits for the MS and/or MSD due to possible matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
MS-NAL	Matrix spike recoveries were very low or ND, sample result not reported due to extreme matrix interference.
O-04	This analysis was performed outside the EPA recommended holding time.
O-08	The original extraction and/or analysis of this sample yielded QC recoveries outside acceptance criteria. It was re-extracted/re-analyzed after the recommended maximum hold time.
O-13	The sample was originally analyzed within hold time. However, the re-analysis was performed due to possible carry over and/or cross contamination after the recommended holding time had expired.
ODOR19	Due to Corona Virus Disease caused by SARS-CoV-2 (COVID-19) pandemic, as a precaution, only one tester did the odor test and reported the "Threshold Odor Number (Median)" (ODOR). Therefore, ODORHI and ODORLO results are not reported.
P-2	Sample received without proper preservation and was preserved at the lab upon receiving.
P-7	The sample was preserved in the lab after the specified time for preservation.
PRESENT	The result of the analysis shows that the analyte is Present.
Q	The analyte did not meet at least one required QC criterium. Additional information provided in notes.
q	The reported result is the estimated maximum possible concentration of this analyte, quantitated using the theoretical ion ratio. The measured ion ratio does not meet qualitative identification criteria and indicates a possible interference.
Q-08	High bias in the QC sample does not affect sample result since analyte was not detected or below the reporting limit.
Q-ME	Acceptable QC with marginal exceedance
Q-NA	Multiple batch-level and/or sample-specific QC failures, result is not reportable.
QB	QC Batch Or Sample Failure: Lab Reagent Blank (LRB), Lab Field Blank (LFB), Calibration Blank (CB), and/or Calibration Check Standard (CCS) failure in the batch prevented reporting of results
QC-2	This QC sample was reanalyzed to complement samples that require re-analysis on different date. See analysis date.
R-01	The Reporting Limit for this analyte has been raised to account for matrix interference.
R-02	The reporting limit for this analyte has been raised due to sample matrix effect on system resolution at the normal reporting limit. Sample was not diluted.
R7	LFB/LFBD RPD exceeded the laboratory acceptance limit. Recovery met acceptance criteria.
S-03	High surrogate recovery for this sample is possibly due to a sample matrix effect. The data was accepted since all target analytes were not detected.
S-10	Surrogate recovery outside method QC limits due to extraction related problems.
S-11	Surrogate recoveries were not acceptable even after diluting to reduce matrix effect, but IS recoveries were acceptable. Result may be affected by sample matrix.
S-12	Surrogate recovery was outside of control limits in a QC sample related to this sample but had acceptable recovery/precision.
S-13	Surrogate recovery for this sample is outside control limits due to interference from coeluting organic compounds present in the sample matrix.
S-14	Surrogate recovery out of acceptance limits for this sample possibly due to sample matrix effect which was confirmed by dilution and/or re-analysis of the sample.
S-15	Surrogate recovery out of acceptance limits. Re-analysis not performed due to concerns sample matrix would impact sensitivity and require system maintenance to correct.
S-16	Surrogate recovery out of acceptance limits for this sample possibly due to sample matrix effect. Similar matrix effects have been seen in past samples at this location.
S-GC	Surrogate recovery outside of control limits due to a possible matrix effect. The data was accepted based on valid recovery of the remaining surrogate.
S1-	Surrogate recovery exceeds control limits, low biased.
SE	Sampling error: improper preservation, missing travel blank (TB), wrong bottles used, etc.
SHE	Sample Handling Error: Sample lost, spilled or bottle broken
SIV	Sample Insufficient Volume: Sample submitted did not have adequate volume for analysis of requested test(s)

SIV-R Sample Insufficient Volume For Re-Analysis: Sample submitted did not have sufficient left-over volume for re-analysis of requested test(s) following QA/QC or equipment issues

SLE Sample Login Error: Incorrect test(s) logged or required test(s) missed

SPME Sample was preserved in the field, but sample matrix effects degraded preservation by the time sample was analyzed.

SRS Site Re-Sample Requested

SS Sample Switch Suspected: Two or mor samples do not match historical values and it is suspected that sample sites or bottles may have been switched

TBNA The lab was unable to generate results for this travel blank. Qualifiers will be used on field sample results associated with this travel blank.

TBNA-S The lab was unable to generate results for the travel blank associated with this sample.

TBRL This travel blank had results above the reporting limit for this analyte. Qualifiers will be used on field sample results associated with this travel blank.

TBRL-S The travel blank associated with this sample had results above the reporting limit for this analyte.

TBTR This travel blank had results above the trace level for this analyte. Qualifiers will be used on field sample results associated with this travel blank.

TBTR-S The travel blank associated with this sample had results above the trace level for this analyte.

TC Test Cancelled: Analysis cancelled per client request -- samples were submitted in error or no longer needed

TSTNA Test of Significant Toxicity (TST) Test Not Applicable To Ceriodaphnia Survival Data

U Result is less than the sample detection limit.

VOL-MH Volatile analyte result below RL. RL-level QC sample results were acceptable. One of the mid- or high-range QC samples had results outside limits.

End of OCWD WRMS RPT# 3586

2/23/2022 14:52

TABLE 3
ORANGE COUNTY WATER DISTRICT
GREEN ACRES PROJECT WATER PRODUCTION FOR WATER YEAR 2021-22
FINAL RECAP
(All Units in Acre-Feet)

Retail Agency	GAP ID	User - Site	July 2021	Aug 2021	Sept 2021	Oct 2021	Nov 2021	Dec 2021	Agency YTD Total WY 2021-22	Agency Recycle
S.A.	SA 5-18	Harbor Median N. of MacArthur	-	-	-	-	-	-	-	-
S.A.	SA 5-7	McFadden School	1.90	2.38	3.80	1.64	1.44	1.88	13.04	
S.A.	SA 5-15	Bomo Kora Park	2.36	2.35	1.90	0.88	2.38	0.55	10.42	
S.A.	SA 5-19	Chroma System-Landscape	0.11	0.12	0.12	0.10	0.09	0.07	0.61	
S.A.	SA 5-9	Bear St./Garry: 3101 S. Bear St.	0.08	0.04	0.00	0.05	0.03	0.02	0.23	
S.A.	SA 5-10	Bear St./Garry: 3011 S. Bear St.	0.06	0.06	0.06	0.06	0.00	-	0.25	
S.A.	SA 5-21	Kaiser Medical Office	0.35	0.35	0.53	2.27	0.50	0.09	4.08	
S.A.	SA 5-1	SAR S.A. (Edinger Ave)	0.65	0.69	0.45	0.33	0.49	0.40	3.00	
S.A.	SA 5-14	3601 MacArthur / Chick-fil-A	0.13	0.14	0.13	0.10	0.15	0.06	0.70	
S.A.	SA 5-16	Bike Trail 3611 S. Flower St.	-	0.15	-	-	-	-	0.15	
S.A.	SA 5-22	SAUSD Sports Complex	5.05	3.99	3.81	1.90	1.83	0.76	17.35	
S.A.	SA 5-23	*Godinez High School (Centennial Park)	3.75	3.69	2.42	1.25	1.56	1.31	13.99	
S.A.	SA 5-20	Chroma System-Carpet Dyeing	1.78	1.97	1.82	1.89	1.88	1.41	10.75	
S.A.	SA 5-3	Centennial Soccer Fields 7267*	2.04	2.16	1.96	1.08	0.69	0.27	8.19	
S.A.	SA 5-8	Thornton Park (E end@Bear/Segerstrom)	6.32	6.40	5.80	3.38	2.57	0.74	25.22	
S.A.	SA 5-17	South Coast Village	1.04	1.18	0.98	0.53	0.97	0.24	4.94	
S.A.	SA 5-5	Centennial Soccer Fields 7273 (B)	-	-	-	-	-	-	-	
S.A.	SA 5-4	Centennial Soccer Fields 7273 (A)	0.01	0.00	-	-	-	0.00	0.02	
S.A.	SA 5-2	Centennial Soccer Fields 7266	8.31	7.60	6.54	4.05	3.93	1.27	31.70	
S.A.	SA 5-13	Griset/MacArthur(E of Greeville St.) 3"	1.95	1.46	1.32	0.66	0.57	0.37	6.34	
S.A.	SA 5-11	SAUD High School #6 (Seegerstrom High School)	4.04	3.46	2.52	0.90	1.56	1.18	13.66	
S.A.	SA 5-6	Adams Park	1.43	1.29	1.23	1.19	0.39	0.38	5.92	
S.A.	SA 5-12	Griset/MacArthur(E of Greeville St.) 2"	0.37	0.32	0.31	0.38	0.11	0.19	1.70	
S.A.	SA 5-24	MacArthur Boulevard Median: 1700 1/2 MacArthur	0.02	0.01	0.02	0.02	0.01	0.01	0.09	
S.A.	SA 5-25	MacArthur Boulevard Median: 952 W. MacArthur	0.08	0.08	0.09	0.08	0.04	0.02	0.39	
		S.A. TOTAL	41.84	39.90	35.81	22.75	21.22	11.20	172.72	
O.C.	OC 7-1	SAR South Arealos Park	-	-	-	-	-	-	-	
		O.C. TOTAL	-	-	-	-	-	-	-	
OCWD	OCWD 1-2	OCWD Irrigation	0.06	0.05	0.06	0.03	0.04	0.05	0.29	
OCWD	OCWD 1-1	OCWD Admin. Bldg	0.02	0.03	0.03	0.02	0.03	0.02	0.14	
		OCWD TOTAL	0.08	0.08	0.09	0.06	0.06	0.07	0.43	
N.B.	NB 6-12	Vista Del Sol Median	0.20	0.18	0.18	0.07	0.07	0.06	0.75	
N.B.	NB 6-19	Bristol Median (Birch St.)	0.26	0.28	0.22	0.12	0.14	0.02	1.03	
N.B.	NB 6-18	Bristol Median (Bayview Place)	0.73	0.79	0.70	0.22	0.11	0.03	2.58	
N.B.	NB 6-16	Jamboree Median (University)	0.18	0.18	0.16	0.08	0.08	0.04	0.71	
N.B.	NB 6-3	Jamboree Median (Santa Barbara)	0.02	0.01	0.02	0.01	0.01	0.00	0.08	
N.B.	NB 6-11	Eastbluff Shopping Center (Vista Del Sol Parkway)	0.54	0.59	0.44	0.11	0.28	0.05	2.00	
N.B.	NB 6-4	Jamboree Median (San Joaquin Hills)	0.77	0.31	0.09	0.12	0.18	0.07	1.54	
N.B.	NB 6-8	Our Lady Queen of Angels	0.30	0.38	0.20	0.33	0.19	0.13	1.52	
N.B.	NB 6-17	Jamboree Median (Bayview)	0.04	0.04	0.03	0.02	0.02	0.01	0.17	
N.B.	NB 6-2A	San Joaquin Hills Apts	1.83	1.76	1.59	0.83	1.69	0.12	7.82	
N.B.	NB 6-2	Newport FS Vault	0.39	0.37	0.35	0.23	0.38	0.09	1.80	
N.B.	NB 6-15	Bonita Creek Park	2.61	2.90	2.09	0.58	0.96	0.09	9.23	
N.B.	NB 6-5	Big Canyon Country Club (6" meter)	11.80	11.46	8.37	4.24	5.02	1.40	42.28	

TABLE 3
ORANGE COUNTY WATER DISTRICT
GREEN ACRES PROJECT WATER PRODUCTION FOR WATER YEAR 2021-22
FINAL RECAP
(All Units in Acre-Feet)

Retail Agency	GAP ID	User - Site	July 2021	Aug 2021	Sept 2021	Oct 2021	Nov 2021	Dec 2021	Agency YTD Total WY 2021-22	Agency Recycle
N.B.	NB 6-14	Eastbluff School	1.49	1.15	0.96	0.29	0.27	0.07	4.24	
N.B.	NB 6-13	Eastbluff Park	3.15	3.70	2.95	0.90	1.39	0.16	12.25	
N.B.	NB 6-1	Newport Beach Country Club	32.21	34.72	25.78	11.94	15.95	2.19	122.78	
N.B.	NB 6-6	Big Canyon Country Club (8 th meter)	23.68	24.04	17.49	7.12	10.40	3.11	85.83	
		N.B. TOTAL	80.19	82.84	61.64	27.21	37.13	7.62	296.62	
Mesa	MESA 4-29	Talbert Park&SAR 1&10-2505 Placentia Ave	-	-	-	-	-	-	-	
Mesa	MESA 4-4	Town Center-Park Center Dr - 600 Town Center Dr.	3.62	4.14	2.16	1.68	1.54	0.31	13.44	
Mesa	MESA 4-32	Mt. Olive Memorial - 1625 Gisler Ave	8.48	6.94	6.13	2.50	4.78	1.08	29.89	
Mesa	MESA 4-31	SAR - C.M. - 1900 Gisler Ave.	0.53	0.59	0.52	0.27	0.50	0.22	2.61	
Mesa	MESA 4-24	C.M.- 2600 Fairview Rd.	0.04	0.05	0.04	0.03	-	0.00	0.17	
Mesa	MESA 4-23	C.M.- 2400 Fairview Rd.	0.05	0.05	0.05	0.01	-	0.01	0.17	
Mesa	MESA 4-41	Enclave Apt - 400 Enclave Cir.	-	-	-	-	0.00	-	0.00	
Mesa	MESA 4-42	Enclave Apt - 400 Enclave Cir.	5.83	6.35	5.47	2.35	2.33	0.88	23.20	
Mesa	MESA 4-15	Vacant car wash - 2770 Bristol St.	-	-	-	-	-	-	-	
Mesa	MESA 4-10	Bear Median-S.of S.C. Dr - 2800 Bear St.	0.01	0.01	0.01	0.01	0.01	0.00	0.06	
Mesa	MESA 4-7	Bear Median-S of Sunflower - 3333 1/2 Bear St.	0.02	0.02	0.01	-	0.00	0.01	0.06	
Mesa	MESA 4-3	Ave of the Arts Median - 3200 Avenue of the Arts	0.22	0.25	0.23	0.07	0.27	0.07	1.11	
Mesa	MESA 4-8	Bear Median-N.of S.C. Dr - 3333 1/2 Bear St.	0.08	0.08	0.03	-	0.01	0.02	0.22	
Mesa	MESA 4-25	C.M.- 2750 Fairview Rd.	5.54	5.96	4.33	2.45	1.44	0.13	19.85	
Mesa	MESA 4-21	C.M. Park-Civic Center - 111 Fair Dr.	0.81	0.54	0.88	0.21	0.23	-	2.67	
Mesa	MESA 4-5	Crystal Court East - 3333 Bear St.	1.23	1.64	1.46	0.31	-	-	4.63	
Mesa	MESA 4-36	IKEA - 1475 South Coast Dr.	1.32	1.09	1.30	1.18	1.03	0.19	6.11	
Mesa	MESA 4-37	EMULEX - 3333 Susan St.	2.89	2.73	2.08	1.51	1.45	0.93	11.59	
Mesa	MESA 4-18	Caltrans 55 - Arlington - 2600 Newport Blvd.	2.64	3.01	3.40	2.44	2.42	1.20	15.11	
Mesa	MESA 4-16	Instant Storage - 1100 SE Bristol St.	-	-	-	-	-	-	-	
Mesa	MESA 4-22	Caltrans 55 - Vanguard - 2300 Newport Blvd.	4.42	3.30	3.53	1.99	2.01	0.76	16.00	
Mesa	MESA 4-38	Susan Street Median - 1400 Sunflower Ave.	0.16	0.14	0.11	0.05	0.06	0.01	0.53	
Mesa	MESA 4-1	Seegerstrom Center for the Arts - 615 Town Center Dr.	0.46	0.64	0.65	0.53	0.28	0.38	2.93	
Mesa	MESA 4-2	Plaza Tower-Ave of Arts - 600 Anton Blvd	0.53	0.76	0.16	0.49	0.65	0.09	2.68	
Mesa	MESA 4-33	Harbor Median (Gisler) - 3202 Harbor Blvd.	0.40	0.49	0.35	0.16	0.21	0.04	1.65	
Mesa	MESA 4-34	Harbor Median (Scenic) - 3581 Harbor Blvd.	0.14	0.15	0.11	0.05	0.06	0.02	0.53	
Mesa	MESA 4-26	Harbor Median (Merrimac) - 2621 1/2 Harbor Blvd.	0.62	0.64	0.32	0.20	0.25	0.04	2.06	
Mesa	MESA 4-14	Caltrans 73 (Bear/73 Fwy) - 3001 Bear St.	0.39	1.92	0.49	0.26	0.25	0.22	3.53	
Mesa	MESA 4-39	Providence Homes - 3350 Susan St.	0.23	0.25	0.22	0.21	0.23	0.07	1.22	
Mesa	MESA 4-6	Crystal Court West - 3333 Bear St.	0.64	0.94	0.87	1.15	1.08	0.76	5.45	
Mesa	MESA 4-17	Caltrans 55 (55/73 Fwy) - 1100 Bristol St.	4.55	1.06	1.13	0.71	0.58	0.22	8.26	
Mesa	MESA 4-13	Caltrans S. of 405 - 3145 Bear St.	0.85	0.81	0.85	0.62	0.56	0.07	3.76	
Mesa	MESA 4-20	C.M. Park-Tewinkle (West) - 970 Arlington Dr.	6.83	7.54	6.58	2.24	3.60	1.38	28.16	
Mesa	MESA 4-19	C.M. Park-Tewinkle (East) - 890 Arlington Dr.	3.17	2.52	2.99	0.95	1.09	0.12	10.84	
Mesa	MESA 4-12	Caltrans 405 - Bear No.2 - 3203 Bear St.	-	0.01	-	-	-	-	0.01	
Mesa	MESA 4-35	Caltrans 405 - Harbor - 3213 Harbor Blvd.	-	-	-	-	-	-	-	
Mesa	MESA 4-11	Caltrans 405 - 3201 Bear St.	1.35	1.18	-	0.00	0.15	-	2.68	
Mesa	MESA 4-28	Costa Mesa Country Club - 1701 Golf Course Dr.	67.54	66.24	51.94	29.27	31.66	4.30	250.97	

TABLE 3
ORANGE COUNTY WATER DISTRICT
GREEN ACRES PROJECT WATER PRODUCTION FOR WATER YEAR 2021-22
FINAL RECAP
(All Units in Acre-Feet)

Retail Agency	GAP ID	User - Site	July 2021	Aug 2021	Sept 2021	Oct 2021	Nov 2021	Dec 2021	Agency YTD Total WY 2021-22	Agency Recycle
Mesa	MESA 4-27	Coast Community College - 2701 Fairview Rd.	6.81	7.11	7.17	2.96	3.31	0.67	28.03	
Mesa	MESA 4-30	C.M. Park-Fairview Park-2501 Placentia Ave	1.54	3.39	3.29	1.35	0.50	0.97	11.04	
		MESA TOTAL	133.92	132.53	108.87	58.19	62.52	15.20	511.23	
F.V.	FV 3-2	10550 Talbert Ave (Hyundai)	2.74	2.81	2.83	1.79	1.71	0.70	12.58	
F.V.	FV 3-10	Mile Square Park-Brookhurst	1.37	1.47	2.69	2.69	2.69	2.69	13.60	
F.V.	FV 3-3	Green Valley	5.11	4.49	3.91	2.16	2.14	0.87	18.69	
F.V.	FV 3-9	Mile Square Golf Course - West	-	-	-	-	-	-	-	
F.V.	FV 3-7	Mile Square Golf Course - East	65.29	60.41	65.93	65.93	65.93	65.93	389.41	
F.V.	FV 3-11	F.V. Rec. Center-Heil St.	5.42	5.05	4.28	1.93	1.86	2.02	20.55	
F.V.	FV 3-16	SAR East end of Garfield	-	-	-	-	-	-	-	
F.V.	FV 3-12	F.V. Rec. Center-North	8.82	7.86	6.65	3.55	3.10	2.36	32.34	
F.V.	FV 3-6	Mile Square Park-Ward St.	0.55	0.77	0.72	0.33	0.29	0.14	2.80	
F.V.	FV 3-8	Mile Square Park-San Mateo	0.79	0.89	0.79	0.37	0.29	0.18	3.31	
F.V.	FV 3-15	SAR North Heil Ave.	-	-	-	-	-	-	-	
F.V.	FV 3-1	Caltrans 405-Talbert	-	-	-	-	0.05	0.02	0.06	
F.V.	FV 3-14	F.V. Rec. Center - Expansion	7.38	7.04	5.90	4.56	3.43	2.06	30.37	
F.V.	FV 3-4	Mile Square Park-No. Euclid	27.63	28.93	25.23	14.66	12.08	7.83	116.36	
F.V.	FV 3-5	Mile Square Park-So. Euclid	37.43	35.41	31.42	19.34	16.34	10.09	150.04	
F.V.	FV 3-13	Baker Golf Course	17.85	16.17	16.27	9.39	6.20	3.69	69.56	
		F.V. TOTAL	190.38	171.29	166.64	126.70	116.11	98.58	859.63	
OCSD	OCSD 2-3	OCSD - Plant 1	32.06	28.05	31.02	24.15	28.12	23.53	166.93	
OCSD	OCSD 2-1	OCSD-Ward St. Median	-	-	-	-	-	-	-	
OCSD	OCSD 2-2	OCSD - Plant 2	30.04	32.78	33.48	38.61	37.91	35.24	208.06	
		OCSD TOTAL	62.10	60.83	64.50	62.76	66.03	58.77	374.99	
Total Blended Gap Water:			498.51	487.47	437.53	297.66	303.06	291.44	2,215.60	
Groundwater(Deep well):			18.73	46.51	21.47	6.94	12.15	4.17	109.97	
% Recycled Water			96%	90%	95%	98%	96%	98%	95%	356.3781
Total Recycled Water			479.78	448.96	416.05	290.72	290.91	187.27	2,105.69	
Recycled Water Total less OCSD portion			420.01	385.93	354.73	229.42	227.52	129.78	1,747.40	

**Orange County Water District
Green Acres Project (GAP)**

**Operator Certification Levels
(As of December 2021)**

Listed according to level of Operator Certification, high-to-low

Operator	OCWD Job Title	WWTP Certification Level & No.		DWT Certification Level & No.	
Tyson Neely	Operations Manager	V	V-27698	T-3	26138
Derrick Mansell	Chief Plant Operator	V	V-28340		
Steve Clark	Shift Supervisor	V	V-8430		
Russell Sutton	Shift Supervisor	V	V-5143		
Mario Manriquez	Lead Plant Operator	V	V-10397		
John Souza	Shift Supervisor	IV	IV-3998		
Anthony Carreira	Shift Supervisor	IV	IV-27787		
Mike Ewing	Lead Plant Operator	III	III-10199		
Luis Torres	Lead Plant Operator	III	III-28285	T-2	27383
Craig Liebzeit Jr.	Lead Plant Operator	III	III-43546	T-2	34896
Heinz Roehler	Sr. Plant Operator III	III	III-3534	T-3	9202
Thomas Nicholson	Sr. Plant Operator III	III	III-9446		
Curtis Sanders	Sr. Plant Operator III	III	III-28461		
Chris Vu	Sr. Plant Operator III	III	III-10630		
Philip Jacobs	Plant Operator II	III	II-42110		
Jacob Bermudez	Plant Operator II	III	III-43637		
Charles Spade	Plant Operator II	II	II-7966		
Eric Gautier	Plant Operator II	II	II-10135		
Bryan Bushay	Plant Operator II	II	II-43759	T-3	35438
Jonathan Mok	Plant Operator I	II	II-43357	T-2	41147
Christopher Owens	Plant Operator II			T-4	29560
Anthony Lockhart	Plant Operator II			T-3	38600

**ORANGE COUNTY WATER DISTRICT
GREEN ACRES TREATMENT PLANT
TREATED WATER QUALITY FOR STATION GA-HPEPBLEND
01/01/2021 TO 12/31/2021**

Abbreviation	Parameter Name	Units	Number of Analyses	Average RDL	Results			Std. Dev.
					Minimum	Maximum	Average	
Ag	Silver	ug/L	1	1	<1	<1	<1	
Al	Aluminum	ug/L	1	10	124	124	124	
APCOLR	Apparent Color (unfiltered)	UNITS	4	3	10	3	10	5.10
As	Arsenic	ug/L	1	1	<1	<1	<1	
B	Boron	mg/L	12	0.1	0.33	0.44	0.395	0.03
Ba	Barium	ug/L	1	1	38	38	38	
Be	Beryllium	ug/L	1	1	<1	<1	<1	
Br	Bromide	mg/L	1	0.1	<0.1	<0.1	<0.1	
Ca	Calcium	mg/L	12	0.5	45.3	74.2	65.32	8.08
Cd	Cadmium	ug/L	1	1	<1	<1	<1	
Cl	Chloride	mg/L	12	1.71	192	283	250.75	31.05
CN	Cyanide	ug/L	1	5	<5	<5	<5	
Co	Cobalt	ug/L	4	1	<1	<1	<1	0.00
CODUNF	Unfiltered Chemical Oxygen Demand	mg/L	12	3	16	36	26.75	5.85
Cr	Chromium	ug/L	1	1	<1	<1	<1	
Cu	Copper	ug/L	1	1	4.7	4.7	4.7	
EC	Electrical Conductivity	uS/cm	364	1	1,020	644	1,617.0	130.4
F	Fluoride	mg/L	1	0.1	0.9	0.9	0.9	
Fe	Iron	ug/L	4	5	111	186	158.25	33.12
HCO3	Bicarbonate (as HCO3)	mg/L	12	1.2	181.6	219.4	199.51	11.00
Hg	Mercury	ug/L	1	1	<1	<1	<1	
K	Potassium	mg/L	12	0.5	10.4	17.2	15.35	1.86
MBAS	Surfactants	mg/L	1	0.02	0.06	0.06	0.06	
Mg	Magnesium	mg/L	12	0.5	15.9	26.6	23.38	2.93
Mn	Manganese	ug/L	4	1	29.7	6.5	26.78	13.79
Na	Sodium	mg/L	12	0.5	177	231	203.50	14.84
NH3-N	Ammonia Nitrogen	mg/L	4	0.1	<0.1	<0.1	<0.1	0.00
Ni	Nickel	ug/L	1	1	4.1	4.1	4.1	
NO2-N	Nitrite Nitrogen	mg/L	4	0.002	<0.002	<0.002	<0.002	0.00
NO3-N	Nitrate Nitrogen	mg/L	4	0.275	10	8.38	10.32	1.59
ORG-N	Organic Nitrogen	mg/L	4	0.1	0.2	1.4	0.88	0.51
Pb	Lead	ug/L	1	1	<1	<1	<1	
pH	pH	UNITS	364	1	7.1	8.2	7.39	0.14
PO4-P	Phosphate Phosphorus (orthophosphate)	mg/L	4	0.02	0.17	0.86	0.40	0.32
SAR	Sodium Adsorption Ratio	RATIO	12	0.1	5	6.2	5.52	0.39
SARADJ	Adjusted Sodium Adsorption Ratio	RATIO	12	0.1	10	9.9	11.19	0.73
Sb	Antimony	ug/L	1	1	<1	<1	<1	
Se	Selenium	ug/L	1	1	1.2	1.2	1.2	
SIO2	Silica	mg/L	1	1	15.9	15.9	15.9	
SO4	Sulfate	mg/L	4	1.75	153	182	164.75	12.92
TDS	Total Dissolved Solids	mg/L	12	2.5	1020	959	913.67	86.42
TKN	Total Kjeldahl Nitrogen	mg/L	4	0.2	0.2	1.4	0.88	0.51
Tl	Thallium	ug/L	1	1	<1	<1	<1	
TOC	Total Organic Carbon (Unfiltered)	mg/L	13	0.05	10.2	9.51	10.21	1.82
TOTALK	Total Alkalinity (as CaCO3)	mg/L	12	5	149	180	163.67	9.02
TOTHRD	Total Hardness (as CaCO3)	mg/L	12	1	179	294	259.42	31.83
TOT-N	Total Nitrogen	mg/L	4	0.275	10.9	9.8	11.20	1.33
Zn	Zinc	ug/L	1	1	13.2	13.2	13.2	



*Dedicated to
Satisfying our Community's
Water Needs*

MEMORANDUM

TO: Board of Directors
FROM: Marwan Khalifa, CPA, MBA Chief Financial Officer
DATE: August 23, 2022
SUBJECT: Fiscal Year 2022 Annual Sole Source Report

RECOMMENDATION

This item is provided for information.

STRATEGIC PLAN

Goal #3: Be financially responsible and transparent.

PRIOR BOARD ACTION

At its January 18, 2018 meeting, the Board of Directors (Board) adopted Resolution No. 1508. This resolution provides Mesa Water District's (Mesa Water) Guidelines for the Procurement of Goods and Services and Cash Disbursements.

DISCUSSION

Resolution No. 1508 requires that the Board is notified on an annual basis of all sole-sourced contracts entered into by Mesa Water. Attachment A provides a list of all sole-sourced contracts for Fiscal Year (FY) 2022. The list includes the date of the sole source memorandum, the vendor, the dollar amount approved, and purpose.

Due to the ongoing COVID-19 pandemic, the emergency clause of Resolution No.1508 was activated in the fourth quarter of FY 2020. It states that, in the event of an emergency, the General Manager has full authority to commit Mesa Water funds in excess of the approved budget limits, or reallocation of funds within those limits, in accordance with, and subject to, the limitations set out in Resolution No. 1508. Contracts entered into during the COVID-19 pandemic will be presented to the Board at the resolution of the emergency.

FINANCIAL IMPACT

None.

ATTACHMENTS

Attachment A: Fiscal Year 2022 Annual Sole Source Report

FISCAL YEAR 2022 SOLE SOURCE REPORT

Date	Vendor	Amount	Purpose
07/01/21	IXOM WATERCARE	\$13,154	Annual service programs - Mixers for Res 1 and 2.
08/01/21	BLACK & VEATCH	\$20,000	Consulting for analysis between Community Choice Aggregation and So. Cal. Edison.
08/13/21	SPRYPOINT	\$45,000	Continued Cogsdale Support
08/20/21	MAINTSTAR	\$16,000	Activating the Mobile Work Order Capacity.
08/20/21	NTH GENERATION	\$32,600	Contract extension for FY21 IT Audit Operations.
08/25/21	ACCESSOIRE AIR	\$18,102	Emergency replacement of MWRf air compressor.
08/25/21	VENTURE EXECUTIVE SEARCH	\$152,000	Ad hoc services and continued GP support services.
08/31/21	S & J SUPPLY	\$12,676	17 of the 6" Mueller Flange X Push-on Valves (inventory challenges, 4 available, 13 backorder).
09/01/21	T2 TECH GROUP	\$48,340	Support the migration of critical SCADA equipment from the MWRf admin building to temp. facility.
09/08/21	SCI CONSULTING GROUP	\$30,000	Professional annual levy administration services regarding the transfer of some fees to property tax rolls.
09/17/21	SEPARATION PROCESS INC. (SPI)	\$49,500	Development of a Root Cause Analysis (RCA) Management Plant and 3 year on-call support.
09/29/21	KIMLEY HORN	\$16,400	Well 3 Acoustic Assessment.
12/01/21	CPC SYSTEMS INC.	\$16,521	Repair chemical pumping stations.
12/01/21	CPC SYSTEMS INC.	\$27,000	Add funds to current sole sourced contract for the two new wells.
12/02/21	SPRYPOINT	\$48,000	Extend contract for one additional year, for Cogsdale CIS backup support .
12/16/21	JOHNSON CONTROLS	\$12,250	Boardroom badge readers.
12/17/21	INFOSEND	\$22,937	218 Notice mailer.
12/20/21	CLA-VAL	\$25,878	Maintenance of 11 control valves.
12/29/21	NORMAN A TRAUB	\$16,000	HR consulting services.
01/18/22	BICKMORE ACTUARIAL	\$15,000	Additional actuarial ad hoc work on the original captive insurance funding & dividend scenarios.
02/10/22	FM THOMAS	\$30,699	MWRf VFD AC Replacement and 1 Spare.
02/10/22	CHARTER COMMUNICATIONS	\$13,629	MWRf Re-route fiber optic lines 2 internet circuits for reconstruction.
02/10/22	STIVERS & ASSOC	\$10,500	Services for MWRf/SCADA construction.
02/18/22	LA CONSULTING	\$20,000	As-needed CMMS and Systems Support.
02/24/22	NTH GENERATION	\$29,250	As-needed Root Cause Analysis Support.
03/24/22	HACH	\$57,223	Two 500 Ammonia Monochloramine Analyzers to replace analyzers at Res 1 and Res 2.
04/29/22	FM THOMAS	\$18,213	Parts for MWRf VFD AC
05/19/22	GENERAL PUMP CO	\$22,194	Well 7 Repair.
05/20/22	COMMERCE TRUCK & EQUIPMENT SALES	\$105,807	2022 Ford F-750 Dump Truck.
06/22/22	KOFF & ASSOC	\$14,960	Special Class & Comp Study of 5 new/reclassified positions.
06/24/22	GALLUP ORGANIZATION	\$16,845	Employee Engagement Survey.
31 Sole Sources Issued		\$976,678	

There are no support materials for this item.