

January 30, 2019

Katie DiSimone  
California Regional Water Quality Control Board - Central Coast Region  
895 Aerovista Place, Suite 101  
San Luis Obispo, CA 93401

Subject: Time Schedule Order No. R3-2018-0019 Fourth Quarter Progress Report

Dear Ms. DiSimone:

In accordance with Table 3 (Compliance Schedule) of Time Schedule Order No. R3-2018-0019 dated June 27, 2018, the City of Morro Bay (City) is submitting the Second Quarter Progress Report. Per Table 3, the progress report shall include the following:

*"The quarterly progress reports shall detail the Discharger's actions implemented towards achieving compliance with Order No. R3-2017-0050, including but not limited to studies, installation/construction progress, evaluation of measures implemented, recommendations for additional measures as necessary to achieve full compliance by the final date of this TSO, completion of any required actions, failures to comply with any action required and related corrective actions. Quarterly progress reports shall also include as attachments any documentation demonstrating compliance, such as RFPs, EIRs, rate studies, contract awards, or hearing agendas. Where such materials are publicly available via the Discharger's website, the Discharger's quarterly report may instead provide web links if approved by Central Coast Water Board staff."*

## Background

The City currently jointly owns and operates a wastewater treatment plant (WWTP) with the Cayucos Sanitary District (CSD). The WWTP was 1954 and blends primary-treated effluent with secondary-treated effluent when flows exceed 1 million gallons per day (mgd). The City is currently operating under Waste Discharge Requirements Order No. R3-2017-0050 (Order No. R3-2017-0050), which requires the City to discontinue the blending process as part of the planned new water reclamation facility (WRF) project, and all flows will meet at least full secondary treatment standards.

Since 2013, the City has been developing a WRF project through the completion of several key planning milestones including completion of the Draft Water Reclamation Facility Master Plan and Draft Master Water Reclamation Plan. These planning documents along with City Council-adopted goals for the project have outlined a project that includes the following major components:

- Onsite tertiary treatment facility with a capacity of approximately 1 mgd;
- Onsite full advanced treatment facilities capable of meeting the Division of Drinking Water's requirements for potable reuse via groundwater augmentation;
- Offsite recycled potable reuse facilities including pipelines and injection wells necessary for groundwater augmentation in the Morro groundwater basin; and
- Offsite raw wastewater conveyance facilities including pipelines and pump station(s) to convey raw wastewater, tertiary-treated wastewater, and brine between the existing WWTP site and the City's preferred site located at Highway 1 and South Bay Boulevard.



## Summary of Recent Activities

Since delivery of the last quarterly update on October 25, 2018, the City has continued to make major strides in moving the WRF project towards achieving full compliance with Order No. R3-2017-0050 by February 23, 2023. These milestones include holding a progress update meeting with Harvey Packard and Phil Hammer from the Regional Water Quality Control Board (RWQCB), beginning design of the WRF facility with the DB team, kicking-off the next phase of hydrogeological work with GSI, and submitting the final application for SRF. A summary of major milestones, dates of their completion, and critical supporting documentation is also identified in the table below. Additional discussion is also provided following the table.

| Activity   | Completion Date  | Supporting Documentation | Links to WRF Website or Attached  |
|--|------------------|--------------------------|---|
| WRF Onsite Design-Build Request for Proposals                        | January 24, 2018 | RFP                      | <a href="http://morrobaywrf.com/request-proposals-design-build-services-wrf-onsite-improvements/">http://morrobaywrf.com/request-proposals-design-build-services-wrf-onsite-improvements/</a>                       |
| Release of Public Draft Environmental Impact Report (EIR)            | March 30, 2018   | Draft EIR                | <a href="http://www.morrobayca.gov/DocumentCenter/View/11684/WRF-Draft-EIR---All-Chapters-Combined">http://www.morrobayca.gov/DocumentCenter/View/11684/WRF-Draft-EIR---All-Chapters-Combined</a>                   |
| City Council Selection of the Preferred WRF Onsite Design-Build Team | June 13, 2018    | Agenda                   | <a href="http://www.morrobay.ca.us/ArchiveCenter/ViewFile/Item/4648">http://www.morrobay.ca.us/ArchiveCenter/ViewFile/Item/4648</a>   |
| Final EIR  | July 03, 2018    | Final EIR                | <a href="http://www.morrobayca.gov/DocumentCenter/View/11985/WRF-Final-EIR">http://www.morrobayca.gov/DocumentCenter/View/11985/WRF-Final-EIR</a>   |
| Recommendation to Certify Final EIR by Planning Commission/WRFCAC    | July 03, 2018    | Agenda                   | <a href="http://www.morrobay.ca.us/ArchiveCenter/ViewFile/Item/4682">http://www.morrobay.ca.us/ArchiveCenter/ViewFile/Item/4682</a>   |
| Draft Financial Plan and Rate Analysis                               | July 05, 2018    | Draft Report             | <a href="http://morrobaywrf.com/site/wp-content/uploads/Morro-Bay-WRF-Financing-Plan-Rates-Draft-7-5-18.pdf">http://morrobaywrf.com/site/wp-content/uploads/Morro-Bay-WRF-Financing-Plan-Rates-Draft-7-5-18.pdf</a> |
| City Council Approval of Proposition 218 Notice                      | July 10, 2018    | Agenda                   | <a href="http://www.morrobay.ca.us/ArchiveCenter/ViewFile/Item/4685">http://www.morrobay.ca.us/ArchiveCenter/ViewFile/Item/4685</a>   |
| Submission of the EPA WIFIA Application                              | July 13, 2018    | Application              | <a href="http://morrobaywrf.com/site/wp-content/uploads/WIFIA-Loan-Application-main-July-2018.pdf">http://morrobaywrf.com/site/wp-content/uploads/WIFIA-Loan-Application-main-July-2018.pdf</a>                     |
| City Council Certification of the Final EIR                          | August 14, 2018  | Resolution               | Included as part of Third Quarter Progress Report (October 25, 2018)  |



| Activity   | Completion Date    | Supporting Documentation                     | Links to WRF Website or Attached                                     |
|--|--------------------|--|--|
| Adoption of New Rates to Support the WRF Program   | September 11, 2018 | Resolution                                   | Included as part of Third Quarter Progress Report (October 25, 2018) |
| Award Contract for the Next Phase of the Hydrogeological Work  | September 25, 2018 | Staff Report                                 | Included as part of Third Quarter Progress Report (October 25, 2018) |
| Award of the WRF Onsite Improvements Design-Build Contract   | October 23, 2018   | Staff Report                                 | Included as part of Third Quarter Progress Report (October 25, 2018) |
| Progress Update Meeting with the Regional Water Quality Control Board  | November 01, 2018  | Presentation                                 | Attachment 1   |
| Submit the Notice to Proceed to Filanc/Black & Veatch to begin design of the WRF onsite improvements   | November 28, 2018  | Kick-Off Meeting Agenda                      | Attachment 2   |
| Submit the Notice to Proceed to GSI to initiate the next phase of hydrogeological work to finalize injection quantity, well location, and well design criteria | December 05, 2018  | Kick-Off Meeting Agenda                      | Attachment 3   |
| Submit the Final Clean Water State Revolving Fund Program  | January 17, 2019   | Final Scoring Sheet/Score Confirmation Email | Attachment 4   |

### Clean Water SRF Status

The deadline for a complete Clean Water SRF application was December 31, 2018. Based on an email received from Jody Hack, the City's Project Manager at the State Water Resources Control Board (SWRCB), dated November 27, 2018, the City's application was deemed complete prior to the deadline. On January 04, 2019, the City received its initial scoring for their application from the SWRCB (Attachment 4). After several rounds of review and iteration between the City and SWRCB, the City learned on January 17, 2019 that their final score will be 14 points. Under the SWRCB's new scoring system, the maximum points available for the WRF project is 14 (i.e., while the project is providing a water supply benefit, it is being classified as a "recycled water" project). Under the new scoring framework, this is the maximum score attainable for this type of project.



### Summary of Planned, Near-Term Activities

In addition to continuing to progress the preliminary design of both the WRF onsite improvements and the offsite lift station(s) and pipelines, the City is planning to complete the following major activities before the end of the fourth quarter of 2018:

| Planned Activity   | Proposed Date                                    |
|--|--|
| Submit a Coastal Development Permit Application to the California Coastal Commission | February 01, 2019<br>(See additional discussion) |

### Coastal Development Permitting Process

At the City's last meeting with the County of San Luis Obispo (County) on December 4, 2018, City, County, and CCC staff discussed the anticipated timeline for permitting through the County. Based on those discussions, and given the likelihood of appeals to the County Board of Supervisors then the CCC, the City would not likely receive a coastal development permit (CDP) from the CCC until October 2019.

In order to minimize project costs, City staff plans to pursue a consolidated permit for the WRF project through the CCC. Based on the approach discussed with CCC staff, the City could acquire a CDP for the entire WRF project by April 2019. Early receipt of the CDP permit will help reduce the overall impacts of the WRF project on the City's ratepayers. In order to facilitate the permitting process, City staff is currently drafting a joint letter with the County to the CCC requesting a consolidated permit. Staff is also currently working to develop the CDP application.

### Conformance with the Compliance Schedule

Table 3 in the TSO identifies the final and intermediate required actions that must be satisfied to demonstrate full compliance with the TSO. The table below lists the required actions, compliance due dates, actual completion dates for those actions already completed, and planned completion dates for those not yet completed.

| Required Actions                              | Compliance Due Dates | Actual Completion Date | Planned Completion Date |
|---|----------------------|------------------------|-------------------------|
| Release of Public Draft EIR                   | March 30, 2018       | March 30, 2018         | March 30, 2018          |
| Release of Updated Rate Study                 | June 30, 2018        | July 05, 2018          | June 30, 2018           |
| Proposition 218 Hearing                       | August 30, 2018      | September 11, 2018     | September 11, 2018      |
| Certification of Final EIR                    | June 30, 2018        | August 14, 2018        | August 14, 2018         |
| Award of Contract for WRF Onsite Improvements | September 30, 2018   | October 23, 2018       | September 25, 2018      |



|   |   |   |   |
|---|---|---|---|
| Develop, Implement,<br>and Submit Pollution<br>Prevention Plan                    | December 01, 2018   | TBD<br>(See additional<br>discussion)                           | December 01, 2018   |
| Award of Contract<br>for Construction of<br>Lift Station and<br>Offsite Pipelines | November 30, 2019   | TBD   | November 30, 2019   |
| Completion of WRF<br>Improvements with<br>Completion Report                       | December 30, 2022   | TBD   | December 30, 2022   |
| Full Compliance with<br>Final Effluent Limits                                     | February 28, 2023   | TBD   | February 28, 2023   |
| Quarterly Progress<br>Reports on TSO<br>Compliance                                | 1st Quarter: May 01, 2018<br>2nd Quarter: August 01, 2018<br>3rd Quarter: November 01, 2018<br>4th Quarter: February 01, 2019 | NA<br>August 01, 2018<br>November 01, 2018<br>February 01, 2018 | NA<br>August 01, 2018<br>November 01, 2018<br>February 01, 2018 |

### Pollution Prevention Plan

The TSO stipulates that the City was to complete a Pollution Prevention Plan (PPP) pursuant to California Water Code Section 13263.3 for biochemical oxygen demand (BOD) and total suspended solids (TSS) by December 01, 2018. Since the WRF project includes the production of purified water for indirect potable reuse (IPR) for Groundwater Replenishment Reuse Projects (GRRPs), the regulations are clearly defined in the June 2014 revised Title 22 regulations. The Title 22 regulations include the requirement for an Engineer's Report, which will go through extensive regulatory and public review. As part of the Engineer's Report, the City will be preparing a mandatory Enhanced Source Control Program (ESCP). The City is requesting that that the ESCP be considered acceptable in lieu of the PPP identified in the TSO. The ESCP will address BOD and TSS as well as a number of other constituents aimed at protecting the quality of the purified water produced by the WRF. The City anticipates that the ESCP will be completed by the end of 2019.

The City will continue to work diligently to come into compliance with Order No. R3-2017-0050 by February 23, 2023 and meet the intermediate actions in Table 3. If you have questions about this progress report or need assistance accessing any of the supporting documentation, please do not hesitate call or email at your earliest convenience.



Katie DiSimone  
California Regional Water Quality Control Board - Central Coast Region  
January 30, 2019

Page 6

Sincerely,

CAROLLO ENGINEERS, INC.

A handwritten signature in black ink, appearing to read "E. Casares", written in a cursive style.

Eric Casares, P.E.  
WRF Program Manager

ETC:sm



**Attachment 1**  
**RWQCB Meeting Presentation**



# Morro Bay Water Reclamation Facility Project Update

Regional Water Quality  
Control Board  
November 1, 2018





# Agenda



- Introductions
- Purpose of meeting
- Technical Challenges
- Technical Solutions
- Question and Answer



# Purpose of Meeting

- Project Update
- Inform RWQCB on process treatment solutions
- Solicit input/feedback from RWQCB on project approaches and solutions
- Schedule Update



## Project Update (WRF Site)

- Draft Facility Master Plan completed Dec 2016
- Full tertiary treatment with advanced treatment for potable reuse
- Outside area of coastal hazards
- Minimal aesthetic impacts









# Project Update (Conveyance Facilities)

- WRF Package
  - Demolition of existing WWTP
  - New WRF
- Conveyance
  - Raw wastewater pump station
  - Raw wastewater pipeline
  - Brine pipeline to outfall
- Recycled Water Offsite
  - Pipelines to injection wells
  - Injection wells





# Project Update (Reclamation)

- Master Reclamation Plan evaluates multiple reuse options
- Potable reuse ranks highest
- Potential to offset ~80% of City's current water demand
- Initial hydrogeology studies completed
- Additional study required to assess seawater intrusion and nitrogen impacts





# Project Update (Major Milestones)

- Submission of EPA WIFIA Application – July 13, 2018
- Certification of Final EIR – August 14, 2018
- Adoption of New Water/Sewer Rates – September 11, 2018
- Award of DB Contract – October 23, 2018

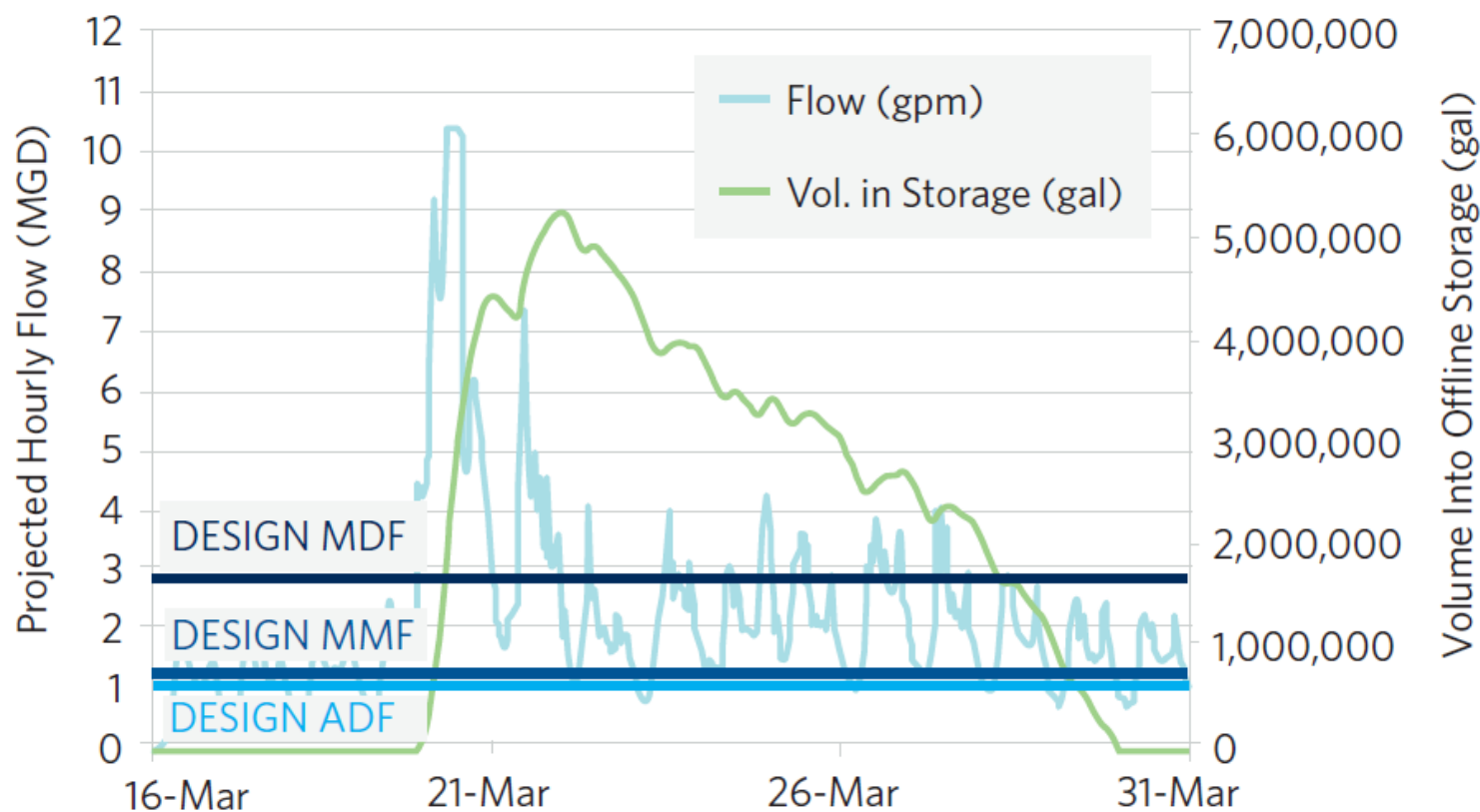


# Project Update (WRF DB)

- Under contract with design/build team
  - DB team and City have agreed to a guaranteed maximum price (GMP) based on a proposed design
- Schedule
  - January 2019: 30% design
  - July 2019: 60% design
  - August 2019: Finalize any necessary adjustments to the current GMP
  - May 2019: Construction Begins for elements such as site grading



# Peak Flows



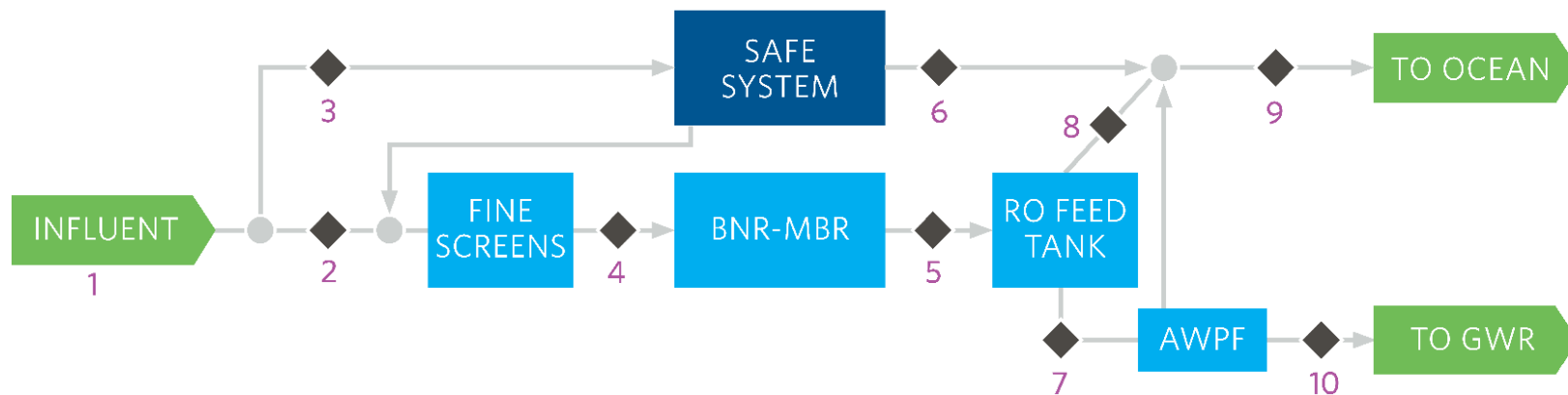
**MMF** - mean maximum flow

**MDF** - maximum daily flow

**ADF** - average daily flow



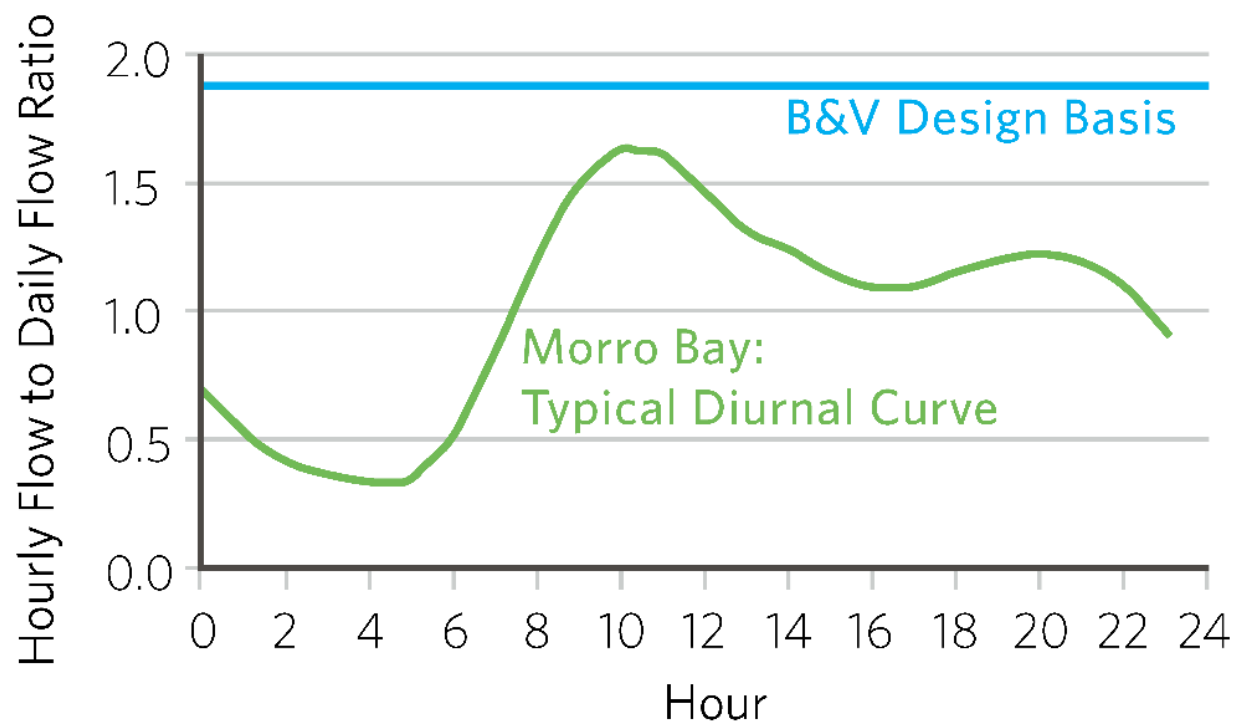
# Auxiliary Treatment Solution for Peak Flows



|     | FLOW (MGD) |      |      |      |      |      |      |      |      |      |
|-----|------------|------|------|------|------|------|------|------|------|------|
|     | 1          | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   |
| ADF | 0.97       | 0.97 | 0    | 0.97 | 0.97 | 0    | 0.97 | 0    | 0.19 | 0.78 |
| MMF | 1.16       | 1.16 | 0    | 1.16 | 1.16 | 0    | 1.16 | 0    | 0.23 | 0.93 |
| MDF | 2.74       | 1.88 | 0.86 | 1.94 | 1.94 | 0.80 | 1.16 | 0.78 | 1.81 | 0.93 |
| PHF | 8.14       | 1.88 | 6.26 | 2.32 | 2.32 | 5.82 | 1.16 | 1.16 | 7.21 | 0.93 |

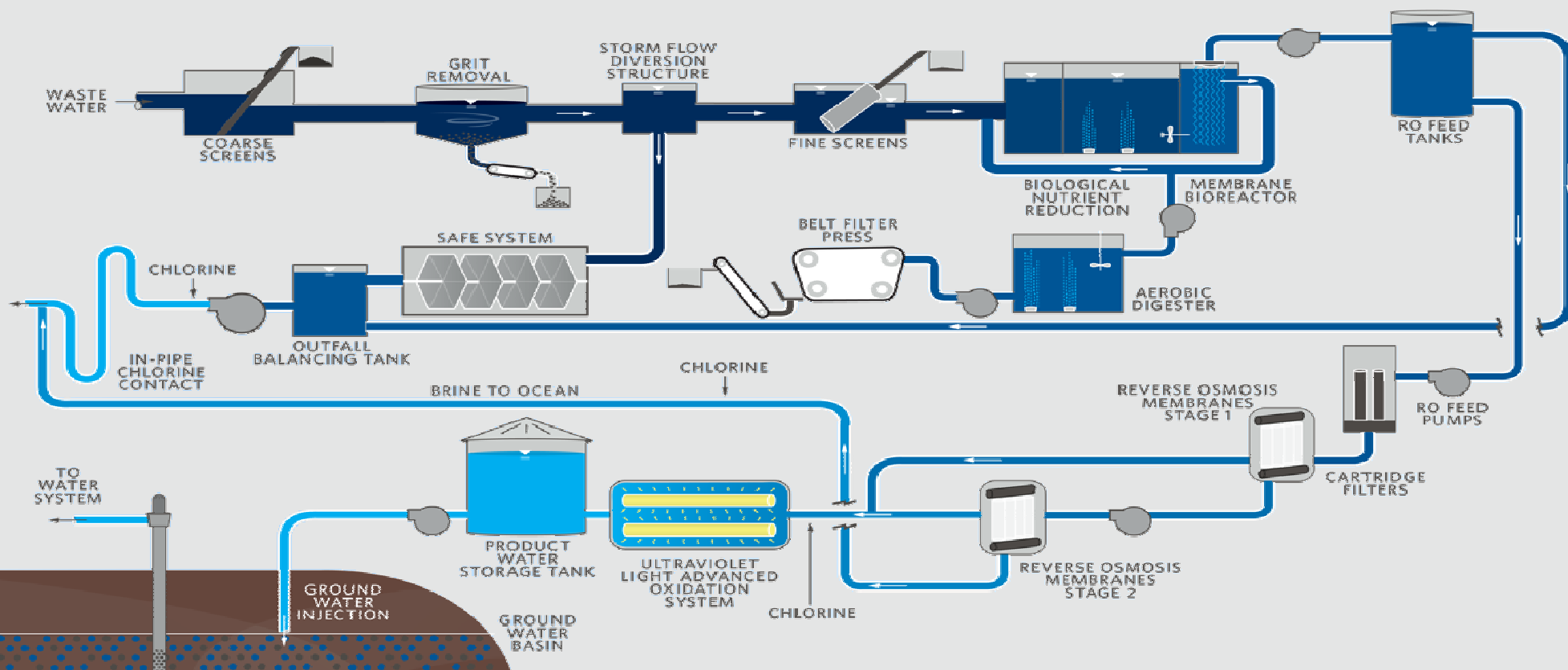


# Daily Flow Pattern





# Process Flow Diagram



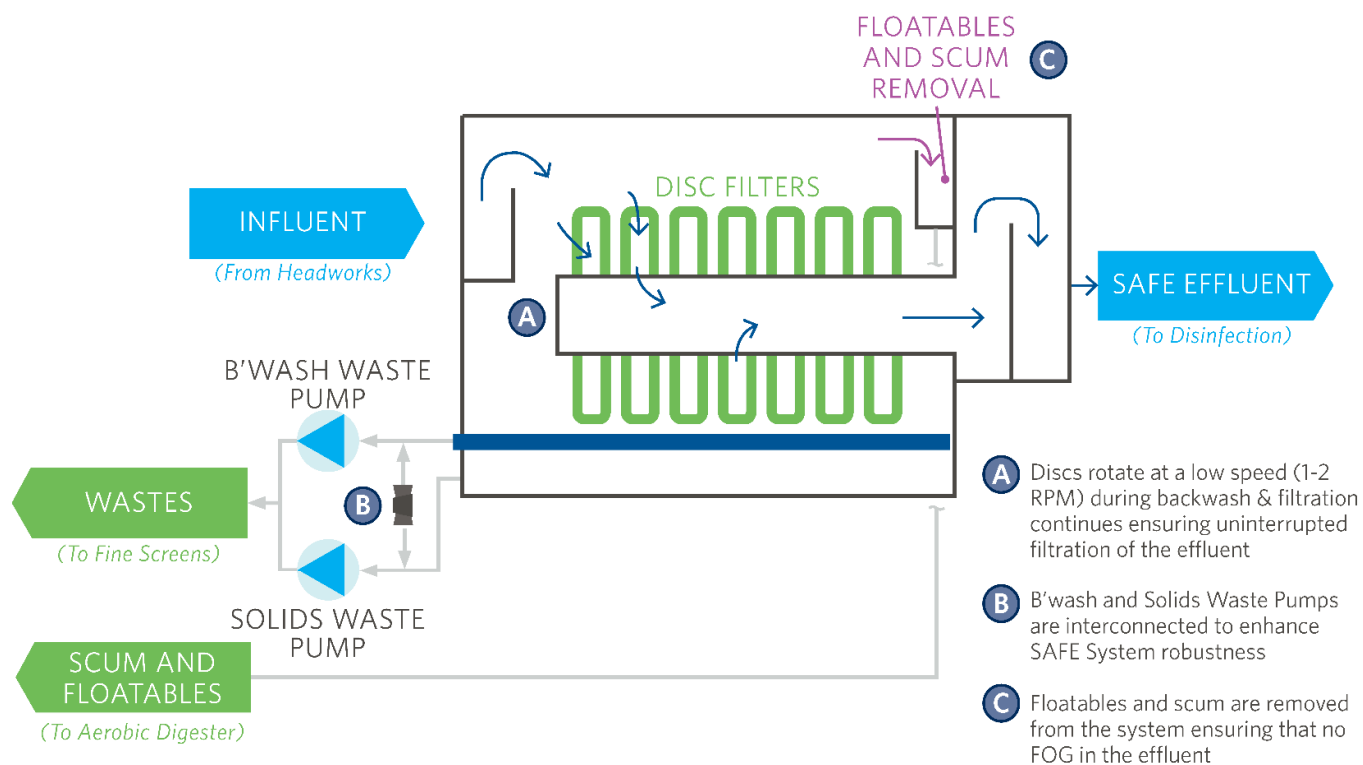




# Stormwater Adaptive Filtration Equipment (SAFE)



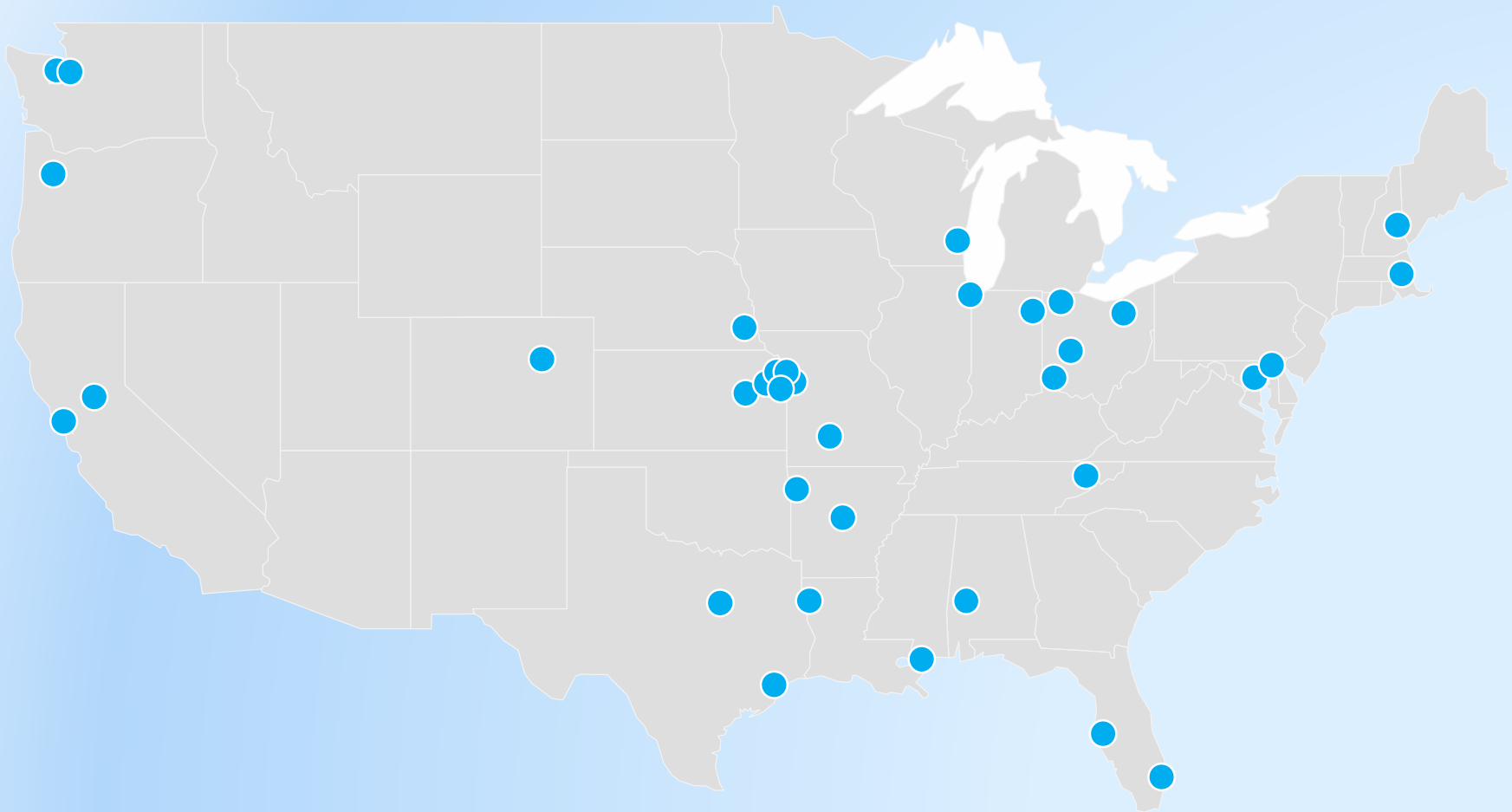
# Filtration Schematic





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## 30+ SAFE SYSTEMS PERMITTED ACROSS THE U.S.





# Frequency of Use of SAFE System

- Reviewed 10 years of historical Morro Bay WWTP hourly data
- Events when Auxiliary Treatment is used:
  - Approx. 100 events per year
    - Flow > 2 MGD - < 5%
    - Flow > ~3 MGD: < 3%
    - Flow > ~6MGD: < 1%
- Hours when Auxiliary Treatment is used:
  - ~ 220 hours annually on average
  - Flow > ~3 MGD for less than 10/220 hours

***Auxiliary Treatment Use:***  
***When influent flow is greater than 1.88 MGD, and flow is treated in BNR-MBR and Auxiliary Treatment process***



# SAFE System Affords Community Well Proven Technologies



- MBR is a well proven technology
- MBR becomes more affordable



# NPDES Compliance approach

- Full Secondary Biological treatment for nominal dry weather flows (40 CFR Part 133)
- Auxiliary treatment for wet weather flows (40 CFR Part 122)
- Compliant with applicable technology-based numerical standards for BOD and TSS throughout the range of anticipated wastewater flows
- Compliant with applicable water quality-based standards throughout the range of anticipated wastewater flows



# Benefits of this compliance approach

- Auxiliary treatment can provide equalization for biological treatment
- Use of auxiliary treatment stabilizes biological treatment





# Questions



**Attachment 2**  
**WRF DB Kick-Off Meeting Agenda**





## MEETING AGENDA



# WATER RECLAMATION FACILITY PROGRAM

## City of Morro Bay

|                  |  |                     |                   |
|------------------|--|---------------------|-------------------|
| <b>Date:</b>     | Wednesday, November 28, 2018   | <b>Time:</b>        | 8:00 AM - 5:00 PM |
| <b>Location:</b> | Inn at Morro Bay<br>(60 State Park Road, Morro Bay, CA 93442) - Morro Bay Room<br>Conference Call:<br>(866) 909-9493; Code: 914-307-5644 | <b>Project No.:</b> | 11100A.60         |
| <b>Subject:</b>  | WRF Design-Build Design Workshop No. 1   |                     |                   |

### Team Member Roles

| Team Member           | Organization           | Email  | Role/Title                              |
|-----------------------|------------------------|--|---|
| Rob Livick            | City                   | <a href="mailto:rlivick@morrobayca.gov">rlivick@morrobayca.gov</a>   | Public Works Director/<br>City Engineer |
| Joe Mueller           | City                   | <a href="mailto:jmueller@morrobayca.gov">jmueller@morrobayca.gov</a> | Utilities Division Manager              |
| Eric Casares          | Carollo                | <a href="mailto:ecasares@morrobayca.gov">ecasares@morrobayca.gov</a> | Program Manager                         |
| Andrew Salvesson      | Carollo                | <a href="mailto:asalvesson@carollo.com">asalvesson@carollo.com</a>   | Potable Reuse Lead                      |
| Andrew Gilmore        | Carollo                | <a href="mailto:agilmore@carollo.com">agilmore@carollo.com</a>       | Treatment Lead                          |
| Gary Silverman        | Filanc-B&V<br>(Filanc) | <a href="mailto:GSilverman@Filanc.com">GSilverman@Filanc.com</a>     | Project Manager                         |
| Chad Brown            | Filanc-B&V<br>(B&V)    | <a href="mailto:BrownCE@bv.com">BrownCE@bv.com</a>                   | Construction Manager                    |
| Erick Bevington       | Filanc-B&V<br>(B&V)    | <a href="mailto:BevingtonEV@bv.com">BevingtonEV@bv.com</a>           | Design Manager                          |
| Katie Zusy            | Filanc-B&V<br>(B&V)    | <a href="mailto:zusyke@bv.com">zusyke@bv.com</a>                     | Process Mechanical                      |
| Vince Diaz            | Filanc-B&V<br>(Filanc) | <a href="mailto:vdiaz@filanc.com">vdiaz@filanc.com</a>               | Construction                            |
| Sandeep Sathyamoorthy | Filanc-B&V<br>(B&V)    | <a href="mailto:SathyamoorthyS@bv.com">SathyamoorthyS@bv.com</a>     | Process Engineer                        |
| John Rickenbach       | JF Rickenbach          | <a href="mailto:jfrickenbach@aol.com">jfrickenbach@aol.com</a>       | Permitting                              |



## MEETING AGENDA

# WATER RECLAMATION FACILITY PROGRAM

### Morning

1. Introductions
  - a. Carollo
  - b. City
  - c. Filanc-Black & Veatch Team
2. Discussion
  - a. Land Use Permitting (approximate duration 4 hours)
    - i. Timeline
    - ii. Next Steps
  - b. Potable Reuse Permitting
    - i. Roles
      1. Carollo
      2. City
      3. Filanc-Black & Veatch
    - ii. Engagement Strategy
      1. DDW
      2. RWQCB
    - iii. Near-Term Meetings
      1. December 04, 2018
      2. Additional Meetings
  - c. SAFE System Permitting
    - i. Roles
      1. Carollo
      2. City
      3. Filanc-Black & Veatch
    - ii. Engagement Strategy
      1. DDW
    - iii. Meetings
      1. December 2018
      2. January 2019

### Afternoon

1. Discussion
  - a. Product Water Storage Capacity (approximate duration 0.5 hours)
  - b. Site Layout Modifications (approximate duration 1 hour)
    - i. On Site Recycle Pumps
    - ii. SAFE System
  - c. SAFE System Design Criteria (approximate duration 2 hours)
    - i. Dry-Weather Flows and MBR Equalization
    - ii. Maintenance Flow
  - d. Stormwater Concepts (approximate duration 1 hour)
2. Process Site Visits
  - a. Fibracast (Victor Valley) - Week of December 10th or 17th
  - b. Aqua Prime (TBD)
  - c. Veolia Hydrotech



# WATER RECLAMATION FACILITY PROGRAM

- 3. Assignments/Action Items
- 4. Adjourn

Action Items

| Item<br>No | Description | Responsible<br>Individual | Date<br>Identified | Status | Completion<br>Date |
|------------|-------------|---------------------------|--------------------|--------|--------------------|
|            |             |                           |                    |        |                    |
|            |             |                           |                    |        |                    |
|            |             |                           |                    |        |                    |
|            |             |                           |                    |        |                    |
|            |             |                           |                    |        |                    |



**Attachment 3**  
**Hydrogeological Kick-Off Meeting Agenda**





## MEETING AGENDA



# WATER RECLAMATION FACILITY PROGRAM

## City of Morro Bay

|                  |   |                     |                     |
|------------------|---|---------------------|---------------------|
| <b>Date:</b>     | Wednesday, December 05, 2018  | <b>Time:</b>        | 10:00 AM - 12:00 PM |
| <b>Location:</b> | City Hall Annex Conference Room<br>595 Harbor Street<br>Morro Bay, CA 93442<br>Conference Call:<br>(866) 909-9493; Code: 914-307-5644 | <b>Project No.:</b> | 11100A.60           |
| <b>Subject:</b>  | WRF Hydrogeology Phase 2 Kick-Off Meeting   |                     |                     |

### Team Member Roles

| Team Member     | Organization | Email  | Role/Title                              |
|-----------------|--------------|--|---|
| Rob Livick      | City         | <a href="mailto:rlivick@morrobayca.gov">rlivick@morrobayca.gov</a>   | Public Works Director/<br>City Engineer |
| Joe Mueller     | City         | <a href="mailto:jmueller@morrobayca.gov">jmueller@morrobayca.gov</a> | Utilities Division Manager              |
| Damaris Hanson  | City         |  |   |
| Eric Casares    | Carollo      | <a href="mailto:ecasares@morrobayca.gov">ecasares@morrobayca.gov</a> | Program Manager                         |
| Andrew Salveson | Carollo      | <a href="mailto:asalveson@carollo.com">asalveson@carollo.com</a>     | Potable Reuse Lead                      |
| Paul Amico      | Carollo      | <a href="mailto:pamico@carollo.com">pamico@carollo.com</a>           | Conveyance Facilities<br>Lead           |
| Paul Sorensen   | GSI          | <a href="mailto:PSorensen@gsiws.com">PSorensen@gsiws.com</a>         | Project Manager                         |
| Tim Thompson    | GSI          | <a href="mailto:tthompson@gsiws.com">tthompson@gsiws.com</a>         | Deputy Project Manager                  |
| David O'Rourke  | GSI          | <a href="mailto:dorourke@gsiws.com">dorourke@gsiws.com</a>           | Task Manager                            |

### Objective

The meeting objective is to formally kick-off the next phase of hydrogeology work for the City of Morro Bay Water Reclamation (WRF) Facility Program.

### Meeting Objectives

1. Kick-off the next phase of the hydrogeology work for the WRF Program
2. Review the status of outstanding data requests
3. Review additional data needs for GSI
4. Review the information needed from GSI to progress the Conveyance Facilities and Offsite Recycled Water Facilities design efforts
5. Review GSI's scope of work
6. Review GSI's schedule



# WATER RECLAMATION FACILITY PROGRAM

## Topics

1. Introductions
  - a. City
  - b. Program Team (Carollo)
  - c. GSI
2. Logistics
  - a. Program Team Main Point of Contact
  - b. City Main Point of Contact
  - c. Invoicing
  - d. Program Management Information System (PMIS)
3. Coordination with Key Stakeholders
  - a. Inquiries from Public or WRFCAC
4. Outstanding Data Requests
  - a. Morro Well Field Nitrogen Data
  - b. Morro Well Field Extraction Data
  - c. Additional Data Needs
5. Well Transducer Installation
  - a. Schedule
  - b. Coordination
6. Information Needed for the Program to Proceed
  - a. Conveyance Facilities
  - b. Offsite Recycled Water Facilities
7. Scope Review
  - a. Phase 1
    - i. Task 1 - Groundwater Modeling
      1. Progress to date
      2. Next steps
      3. Results
  - b. Phase 2
    - i. Task 1 - Characterize Narrows and West Areas
      1. Test wells design
      2. Well permitting
      3. CPT borings
    - ii. Task 2 - Pilot Injection Testing
      1. Conduct test well drilling and testing
      2. Identified preferred site
    - iii. Task 3 - Conduct Groundwater Model Updates
      1. Develop assessment of potential annual injection volumes and retention time
    - iv. Tasks 4/5 - Monitoring
      1. Installation of transducers (schedule)
        - a. Seawater wells
        - b. Monitoring wells
    - v. Task 6/7 - Project Summary Report and Project Management
8. Schedule



## MEETING AGENDA

# WATER RECLAMATION FACILITY PROGRAM

- a. Phase 1
  - i. Groundwater Modeling (Tasks 1)
- b. Phase 2
  - i. Pilot Injection Testing (Task 1 through 7)
- c. Phase 3
  - i. TBD
- 9. Deliverables
- 10. Next Steps
  - a. Follow-Up Meetings
- 11. Assignments/Action Items

### Discussion

### Action Items

| Item<br>No | Description | Responsible<br>Individual | Date<br>Identified | Status | Completion<br>Date |
|------------|-------------|---------------------------|--------------------|--------|--------------------|
|            |             |                           |                    |        |                    |
|            |             |                           |                    |        |                    |
|            |             |                           |                    |        |                    |
|            |             |                           |                    |        |                    |
|            |             |                           |                    |        |                    |
|            |             |                           |                    |        |                    |



#### **Attachment 4**

#### **Clean Water SRF Scoring Sheet and Confirmation of Score**



## Eric Casares

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**From:** Hack, Jody@Waterboards <Jody.Hack@waterboards.ca.gov>  
**Sent:** Thursday, January 17, 2019 3:06 PM  
**To:** Eric Casares  
**Cc:** Rob Livick (rlivick@morrobayca.gov); Scott Collins  
**Subject:** RE: Morro Bay's Priority Scoring Worksheet

Eric

Looks like the CAP you submitted was on point. I gave you the 3 points for the secondary score for a total score of 14. In April we will all find out what the cut off will be. I will keep you posted.

Regards,

### **Jody Hack**

Water Resource Control Engineer  
State Water Resources Control Board  
Division of Financial Assistance  
Water Recycling Funding Program  
1001 I Street, Sacramento, CA 95814  
[Jody.Hack@waterboards.ca.gov](mailto:Jody.Hack@waterboards.ca.gov)  
Phone: (916) 341-5811

---

**From:** Eric Casares <ECasares@carollo.com>  
**Sent:** Wednesday, January 16, 2019 12:06 PM  
**To:** Hack, Jody@Waterboards <Jody.Hack@waterboards.ca.gov>  
**Cc:** Rob Livick (rlivick@morrobayca.gov) <rlivick@morrobayca.gov>; Scott Collins <scollins@morrobayca.gov>  
**Subject:** RE: Morro Bay's Priority Scoring Worksheet

Jody,

Attached is the revised scoring sheet based on our discussion. A few things to note below:

#### **Section B – Automatic Fundability:**

1. It appears we do not fall under the Small Disadvantaged Community requirements, since:
  - a. MHI for Morro Bay is \$61,690 (2013-2017) based on the US Census Bureau and it is above the \$53,735 that we discussed over the phone. Interesting to note the City's new General Plan (<http://www.morrobay.ca.us/DocumentCenter/View/11817/Plan-Morro-Bay-LCP-Public-Draft-May-2018>) shows the MHI as \$50,914.
  - b. At an average sewer rate of \$108/month, the City does not meet the 4% of MHI criteria. However, at a MHI of \$61,690, the sewer rate is approximately 2.1% of the MHI. Per our discussions, exceeding 1.5% had some impacts on grant funding. ***Will the City be eligible to receive additional grant funding because their sewer rates exceed the 1.5% of MHI?***

#### **Section C – Ineligibility:**

1. No changes.

#### **Section D – Priority Scoring:**

1. Primary Scoring:
  - a. No changes.



- i. While the project is providing a drinking water source, based on our discussions, the project is a "Recycled Water" project.
2. Secondary Scoring:
  - a. The City has an adopted Climate Action Plan that has been uploaded via FFAST (an additional 3 points)
  - b. If for some reason the Climate Action Plan does not meet the State's requirements, the City should receive 2 points since it is a part of the SLO County IRWM (<http://www.slocountywater.org/site/Frequent%20Downloads/Integrated%20Regional%20Water%20Management%20Plan/>).
3. Readiness:
  - a. No changes.
4. Total Score:
  - a. With the Climate Action Plan the score should be: **14**
  - b. With the IRWM (Climate Action Plan does not meet the State's requirements) the score should be: **13**

Please let me know if you have any additional questions.

Eric Casares, P.E.  
Associate Vice President  
Carollo Engineers, Inc.  
710 W. Pinedale Avenue  
Fresno, CA 93711  
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M: 559-240-2739  
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**From:** Hack, Jody@Waterboards [<mailto:Jody.Hack@waterboards.ca.gov>]  
**Sent:** Wednesday, January 16, 2019 10:44 AM  
**To:** Eric Casares <[ECasares@carollo.com](mailto:ECasares@carollo.com)>  
**Cc:** Rob Livick ([rlivick@morrobayca.gov](mailto:rlivick@morrobayca.gov)) <[rlivick@morrobayca.gov](mailto:rlivick@morrobayca.gov)>  
**Subject:** RE: Morro Bay's Priority Scoring Worksheet

Can you please send me the scoring sheet, I need to knock it out this week.

***Jody Hack***

Water Resource Control Engineer  
State Water Resources Control Board  
Division of Financial Assistance  
Water Recycling Funding Program  
1001 I Street, Sacramento, CA 95814  
[Jody.Hack@waterboards.ca.gov](mailto:Jody.Hack@waterboards.ca.gov)  
Phone: (916) 341-5811

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**From:** Eric Casares <[ECasares@carollo.com](mailto:ECasares@carollo.com)>  
**Sent:** Monday, January 14, 2019 7:23 AM  
**To:** Hack, Jody@Waterboards <[Jody.Hack@waterboards.ca.gov](mailto:Jody.Hack@waterboards.ca.gov)>



**Cc:** Rob Livick ([rlivick@morrobayca.gov](mailto:rlivick@morrobayca.gov)) <[rlivick@morrobayca.gov](mailto:rlivick@morrobayca.gov)>

**Subject:** Re: Morro Bay's Priority Scoring Worksheet

Jody,

I can send you the scoring sheet back this morning.

Eric Casares, P.E.  
Associate Vice President  
Carollo Engineers  
O: (559) 490-4361  
M: (559) 240-2739  
[www.carollo.com](http://www.carollo.com)

On Jan 14, 2019, at 7:20 AM, Hack, Jody@Waterboards <[Jody.Hack@waterboards.ca.gov](mailto:Jody.Hack@waterboards.ca.gov)> wrote:

Yes Eric it seems the City could qualify for that scoring criteria.

Also, do you guys have the scoring sheet for me? I need it ASAP so I can complete the worksheet.

Thank you,

***Jody Hack***

Water Resource Control Engineer  
State Water Resources Control Board  
Division of Financial Assistance  
Water Recycling Funding Program  
1001 I Street, Sacramento, CA 95814  
[Jody.Hack@waterboards.ca.gov](mailto:Jody.Hack@waterboards.ca.gov)  
Phone: (916) 341-5811

---

**From:** Eric Casares <[ECasares@carollo.com](mailto:ECasares@carollo.com)>

**Sent:** Friday, January 4, 2019 1:54 PM

**To:** Hack, Jody@Waterboards <[Jody.Hack@waterboards.ca.gov](mailto:Jody.Hack@waterboards.ca.gov)>; Rob Livick ([rlivick@morrobayca.gov](mailto:rlivick@morrobayca.gov)) <[rlivick@morrobayca.gov](mailto:rlivick@morrobayca.gov)>

**Subject:** RE: Morro Bay's Priority Scoring Worksheet

Jody,

Thank you for sending. A few things to note:

1. The City has a climate action plan (will be sent shortly) so it looks like we will get an additional 3 points in the "Secondary" category

Does the City not automatically qualify as they are under a time schedule order from the RWQCB per the below language?

*Public Health Project: A project is a public health project when the County Board of Supervisors, City Council, or the County Health Officer has certified that a health problem exists and the State Water Board or a Regional Water Board has (a) adopted a discharge prohibition, (b) approved a moratorium, or (c) adopted a cease and desist order. Alternatively, a project may be a public health project when it is required to comply with a prohibition, posting, limitation, or warning that has been imposed by a responsible health authority and the State Water Board or a Regional Water Board has concurred with the health authority's determination and established a time schedule for correction or elimination of*



**the problem.** *The applicant must demonstrate a direct connection between completion of the project and correction or elimination of the public health problem.*

This is great news and I look forward to talking with you soon.

Eric Casares, P.E.  
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<image006.png>

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**From:** Hack, Jody@Waterboards [<mailto:Jody.Hack@waterboards.ca.gov>]  
**Sent:** Friday, January 4, 2019 7:08 AM  
**To:** Eric Casares <[ECasares@carollo.com](mailto:ECasares@carollo.com)>; Rob Livick (<[rlivick@morrobayca.gov](mailto:rlivick@morrobayca.gov)>  
<[rlivick@morrobayca.gov](mailto:rlivick@morrobayca.gov)>  
**Subject:** Morro Bay's Priority Scoring Worksheet

Gents,

Attached is the Priority Scoring for the City of Morro Bay's CWSRF application. I have not yet given a secondary score for this project and was hoping the City would take a look and see what applies to them. Please submit any supporting documents for the secondary scoring to me via email and also upload to FFAST by the COB on Wednesday 1/9/2019.

Please let me know if you have any questions,

***Jody Hack***

Water Resource Control Engineer  
State Water Resources Control Board  
Division of Financial Assistance  
Water Recycling Funding Program  
1001 I Street, Sacramento, CA 95814  
[Jody.Hack@waterboards.ca.gov](mailto:Jody.Hack@waterboards.ca.gov)  
Phone: (916) 341-5811



# PRIORITY SCORING WORKSHEET

## A. Project Information

|                  |                                    |                 |           |
|------------------|------------------------------------|-----------------|-----------|
| Project(s) #:    | 8185-110                           |                 |           |
| Applicant:       | City of Morro Bay                  |                 |           |
| Project Title:   | Water Reclamation Facility Project |                 |           |
| Project Manager: | Jody Hack                          | Date Completed: | 1/3/2019  |
| Reviewed By:     | Eric Casares                       | Date Reviewed:  | 1/16/2019 |

*Instructions: Project Managers must complete a worksheet for each "project" based on the application(s) as of December 31. After completing the worksheet, provide the applicant with an opportunity to review and comment on the worksheet. Scoring criteria definitions are provided on page 3.*

## B. Automatic Fundability

1. Does the Applicant qualify to be a Small Disadvantaged Community? ☐ Yes ☒ No
- A population less than 20,000; and
  - An MHI of less than eighty percent (80%) of the statewide MHI; or
  - A sewer rate of more than four percent (4%) of the community's MHI

2. Does Project qualify as a Public Health project? ☐ Yes ☒ No

Public Health Project: A project is a public health project when the County Board of Supervisors, City Council, or the County Health Officer has certified that a health problem exists and the State Water Board or a Regional Water Board has (a) adopted a discharge prohibition, (b) approved a moratorium, or (c) adopted a cease and desist order. Alternatively, a project may be a public health project when it is required to comply with a prohibition, posting, limitation, or warning that has been imposed by a responsible health authority and the State Water Board or a Regional Water Board has concurred with the health authority's determination and established a time schedule for correction or elimination of the problem. The applicant must demonstrate a direct connection between completion of the project and correction or elimination of the public health problem.

➤ If Yes to either of the above, project is automatically added to the Fundable List.

## C. Ineligibility

1. Has more than 25% of construction been completed, based on cost. ☐ Yes ☒ No
2. Was construction started on or before December 31 and is construction scheduled to be completed before June 15 or IUP adoption date. ☐ Yes ☒ No

- If Yes to either of the above, project is ineligible. Do not score, project is not fundable.
- If No to both 1 & 2, Project will be scored for placement on the Fundable List per Section D.



## D. Priority Scoring

**Primary Score** (Select only highest score)

*Note: Applications that do not meet any of the objectives will receive a primary score of two (2)*

| Resource or Impact                   | Purpose                    |                            |                                       |
|--------------------------------------|----------------------------|----------------------------|---------------------------------------|
|                                      | Corrective                 | Preventive                 | Improvement                           |
| Drinking Water Source                | 9 <input type="checkbox"/> | 8 <input type="checkbox"/> | 7 <input type="checkbox"/>            |
| Delta Water Quality                  | 8 <input type="checkbox"/> | 7 <input type="checkbox"/> | 7 <input type="checkbox"/>            |
| Water Recycling                      |                            |                            | 7 <input checked="" type="checkbox"/> |
| Impaired Water Body                  | 8 <input type="checkbox"/> | 6 <input type="checkbox"/> | 4 <input type="checkbox"/>            |
| Water Quality Control Plan or Permit | 8 <input type="checkbox"/> | 6 <input type="checkbox"/> | 4 <input type="checkbox"/>            |

Score (Max. 9): 7

### Drinking Water Source

Source Affected: \_\_\_\_\_

Current or Future Users: \_\_\_\_\_

DW Standards: \_\_\_\_\_

How will project correct, prevent, or improve the DW Standards?

\_\_\_\_\_  
\_\_\_\_\_

### Delta Water Quality

How will project correct, prevent, or improve Delta Water Quality?

\_\_\_\_\_  
\_\_\_\_\_

### Water Recycling

Does the project appear to offset existing uses? ☒ Yes ☐ No

Does the applicant appear to have identified users of the RW? ☒ Yes ☐ No

### Impaired Water Body

TMDL Title: \_\_\_\_\_

Date Adopted: \_\_\_\_\_

Criteria Impaired: \_\_\_\_\_

How will project correct, prevent, or improve impairment?

\_\_\_\_\_  
\_\_\_\_\_

### Water Quality Control Plan or Permit

Plan Title or Permit #: \_\_\_\_\_

Criteria or Limits Affected: \_\_\_\_\_

How will project correct, prevent, or improve the affected criteria or limits?

\_\_\_\_\_  
\_\_\_\_\_



**Secondary Score** (Select only highest score)

Applicant has adopted a "climate change" action plan or policy, and the plan or policy is applicable to the system being financed or the project will help implement the plan or policy actions.

3 ☒

*Note: Please use Attachment A for evaluation of climate change plan.*

**Project:**

- ☐ Addresses multiple water quality impairments

*Specify each impairment:* \_\_\_\_\_

- ☐ Eliminates or reduces multiple sources of water pollution

*Describe the multiple sources  
eliminated or reduced:* \_\_\_\_\_

3 ☐

- ☐ Eliminates a discharge of waste regulated by a Regional Water Board or the State Water Board

*Identify the permit that will be  
eliminated:* \_\_\_\_\_

**Project:**

- ☐ Cited in a multi-agency regional environmental management plan

*Provide Title of Reg. Plan &  
Page #:* \_\_\_\_\_

- ☐ Increases the local supply of drinking water

*Describe the number of new  
users and their location:* \_\_\_\_\_

2 ☐

- ☐ Has multi-media environmental benefits

*Describe the environmental benefits that will be  
produced outside the system being financed:* \_\_\_\_\_

The applicant agrees to provide funds to match federal capitalization grants by agreeing to the match financing option.

2 ☐

Score (Max. 3): 3



**Readiness Score** (Select all that apply and sum)

Complete Application Received by the Division

2 ☒

Status of Plans &amp; Specifications as verified by State Water Board Staff

If > 49% = 1 ☐or, if > 89% = 2 ☒

Score (Max. 4): 4

| Application Documents | Completed                           | List Missing Documents |
|-----------------------|-------------------------------------|------------------------|
| General               | <input checked="" type="checkbox"/> |                        |
| Environmental         | <input checked="" type="checkbox"/> |                        |
| Technical             | <input checked="" type="checkbox"/> |                        |
| Financial             | <input checked="" type="checkbox"/> |                        |

Percentage of P&amp;S: 100% - RFP Target Date for 90% P&amp;S:

Primary

+

Secondary

+

Readiness

=

**Proposed Priority  
Score\***

7

3

4

14

\*The score will be final upon Board approval of the IUP.



## E. Descriptions

### **Primary Score Descriptions**

#### **Resource or Impact**

**Drinking Water Source:** The applicant must identify the drinking water source, the current or reasonably foreseeable users of that source, the drinking water standards that are in jeopardy, and demonstrate a direct connection between completion of the project and the elimination or reduction of the constituents that jeopardize the drinking water standards.

**Delta Water Quality:** Applicants must demonstrate a direct connection between completion of the project and a benefit to water quality in the Sacramento-San Joaquin delta estuary.

**Water Recycling:** Projects must meet the requirements of the *Water Recycling Funding Program Guidelines*.

**Impaired Water Body:** Applicants must identify the 303(d) listed water body, the specific impairment, and demonstrate a direct connection between completion of the project and correction, prevention, or improvement of the specific impairment.

**Water Quality Control Plan, Policy, or Permit:** Applicants must identify the specific criteria in the Regional Water Board or State Water Board adopted plan, policy, or permit and demonstrate a direct connection between completion of the project and correction, prevention, or improvement of the conditions affecting the criteria.

#### **Purpose**

**Corrective:** To qualify as a corrective project, the applicant must identify the specific plan, policy, or permit criteria that are being violated or exceeded, document the extent of the violations, document that the violations are the subject of enforcement actions, if applicable, by a Regional Water Board or the State Water Board, and demonstrate a direct connection between completion of the project and correction of the problem.

**Preventive:** To qualify as a preventive project, an applicant must demonstrate that not completing the project is likely to result in a plan, policy, or permit violation or exceedance in the near future. The applicant must identify the specific criteria that will potentially be violated or exceeded and demonstrate a direct connection between completion of the project and prevention of the violations.

**Improvement:** To qualify as an improvement project, an applicant must demonstrate that, while not necessary to meet current standards or prevent near-term violations, the project outcome will surpass current plan, policy, or permit requirements, meet anticipated future requirements, or be done to improve the efficiency and reliability of meeting standards or reduce operating costs.

### **Secondary Score Descriptions**

**Climate Action Plan or Policy:** A plan or policy adopted or approved by the applicant that identifies a series of specific actions covering all aspects of the applicant's authority that it intends to take to address the causes and effects of climate change or participation in a 3<sup>rd</sup> party voluntary program covering all aspects of the applicant's authority that will help it identify, track, and verify actions to address the causes and effects of climate change.

**Multi-Agency Regional Environmental Management Plan:** A plan adopted or approved by multiple agencies that identifies regional solutions to environmental problems.

**Multiple Environmental Benefits:** Multiple environmental benefits are benefits in addition to the project's primary water quality benefits, such as reducing solid waste or air pollution from sources outside of the system or project being financed.



## F. Potential Tie Breaker

READ: Below is a potential tie breaker and will only be used if a cutoff score results in a Fundable List greater than 125% of the Funding Target. Additional evaluation may be based on community economic status. Please identify the community's economic status below.

### Community Economic Status (Select only one)

Project serves a large disadvantaged community; large disadvantaged community means a community with a population equal to or greater than 20,000 and one or both of the following conditions:

- a MHI of less than eighty percent (80%) of the statewide median household income
- a sewer rate of more than four percent (4%) of the community's MHI

Project serves a large severely disadvantaged community; large severely disadvantaged community means a community with both a population of equal to or greater than 20,000 and an MHI of less than sixty percent (60%) of the statewide MHI.

Project does not serve a large, severely disadvantaged or large, disadvantaged community.

|                          |
|--------------------------|
| <input type="checkbox"/> |
| <input type="checkbox"/> |
| <input type="checkbox"/> |

C:\Users\jhack\Desktop\Priority Scoring\8125-110\_Morro Bay\_Priority Scoring\_Worksheet\_CWSRF.docx