



CITY OF MORRO BAY PUBLIC WORKS ADVISORY BOARD (PWAB) AGENDA

The City of Morro Bay provides essential public services and infrastructure to maintain a safe, clean and healthy place for residents and visitors to live, work and play.

Regular Meeting Wednesday, June 17, 2020 – 5:30 P.M. Held Via Teleconference

ESTABLISH QUORUM AND CALL TO ORDER
MOMENT OF SILENCE
PLEDGE OF ALLEGIANCE
BOARD MEMBER'S ANNOUNCEMENTS & PRESENTATIONS

PUBLIC COMMENT

Pursuant to Section 3 of Executive Order N-29-20, issued by Governor Newsom on March 17, 2020, this Meeting will be conducted telephonically through Zoom and broadcast live on Cable Channel 20 and streamed on the City website (click [here](#) to view). Please be advised that pursuant to the Executive Order, and to ensure the health and safety of the public by limiting human contact that could spread the COVID-19 virus, the Veterans' Hall will not be open for the meeting.

Public Participation:

In order to prevent and mitigate the effects of the COVID-19 pandemic, and limit potential spread within the City of Morro Bay, in accordance with Executive Order N-29-20, the City will not make available a physical location from which members of the public may observe the meeting and offer public comment. Remote public participation is allowed in the following ways:

- Community members are encouraged to submit agenda correspondence in advance of the meeting via email to the Public Works' office at PWAB@morrobayca.gov prior to the meeting and will be published on the City website with a final update one hour prior to the meeting start time. Agenda correspondence received less than an hour before the meeting start time may not be posted until after the meeting.
- Members of the public may watch the meeting either on cable Channel 20 or as streamed on the City [website](#).
- Alternatively, members of the public may watch the meeting and speak during general Public Comment or on a specific agenda item by logging in to the Zoom webinar using the information provided below. Please use the "raise hand" feature to indicate your desire to provide public comment. Each speaker will be allowed three minutes to provide input.

Please click the link below to join the webinar:

- <https://us02web.zoom.us/j/82722747698?pwd=aWZpTzdwTHlRTk9xaTlmWVNWRFUQT09>
Password: 135692

- Or Telephone Attendee: (408) 638-0968 or (669) 900 6833 or (346) 248 7799; Webinar ID: 827 2274 7698; Password: 135692; Press * 9 to "Raise Hand" for Public Comment

A. CONSENT AGENDA

Unless an item is pulled for separate action by the Public Works Advisory Board, the following actions are approved without discussion. The public will also be provided an opportunity to comment on consent agenda items.

A-1 APPROVAL OF MINUTES FOR THE MAY 20, 2020 PUBLIC WORKS ADVISORY BOARD REGULAR MEETING

RECOMMENDATION: Approve as submitted.

B. BUSINESS ITEMS

B-1 DIRECTORS REPORT - INFORMATIONAL SUMMARY OF CURRENT PUBLIC WORKS ACTIVITIES

RECOMMENDATION: No action.

B-2 ANNUAL WATER REPORT 2019 AND RECOMMENDATION FOR ALLOCATION OF WATER EQUIVALENCY UNITS (WEU) FOR 2020/21

RECOMMENDATION: Review the 2019 annual water report and allocation of the FY 2020/21 Water Equivalency Units and forward the following recommendations to City Council:

1. Allocate 50 Water Equivalency Units (WEUs) for residential development and 65 for commercial development for a total of 115 WEUs for FY2020/21

C. FUTURE AGENDA ITEMS

Update to the Pavement Management Plan - August
WRF Update – As Needed

D. ADJOURNMENT

The next Regular Meeting will be held on **August 19, 2020 at 5:30 p.m.** via teleconference.

THIS AGENDA IS SUBJECT TO AMENDMENT UP TO 72 HOURS PRIOR TO THE DATE AND TIME SET FOR THE MEETING. PLEASE REFER TO THE AGENDA POSTED AT THE PUBLIC WORKS DEPARTMENT, 955 SHASTA AVENUE, FOR ANY REVISIONS OR CALL THE DEPARTMENT AT 772-6261 FOR FURTHER INFORMATION.

MATERIALS RELATED TO AN ITEM ON THIS AGENDA SUBMITTED TO THE PUBLIC WORKS ADVISORY BOARD AFTER DISTRIBUTION OF THE AGENDA PACKET ARE AVAILABLE FOR PUBLIC INSPECTION UPON REQUEST BY CALLING THE PUBLIC WORKS OFFICE AT 805-772-6261.

IN COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT, IF YOU NEED SPECIAL ASSISTANCE TO PARTICIPATE IN A CITY MEETING, PLEASE CONTACT THE CITY CLERK'S OFFICE AT LEAST 24 HOURS PRIOR TO THE MEETING TO INSURE REASONABLE ARRANGEMENTS CAN BE MADE TO PROVIDE ACCESSIBILITY TO THE MEETING.

The Public Works Advisory Board conducted this meeting in accordance with Section 3 of California Governor Newsom’s Executive Order N-29-20 issued on March 17, 2020 in response to the present State of Emergency in existence due to the threat of COVID-19. This meeting was held via teleconference for all participants.

- | | | |
|----------|--|---|
| PRESENT: | Ric Deschler
Janith Goldman
John Erwin
Torrey Byles
Chris Erlendson | Chair
Vice Chair
Board Member
Board Member
Board Member |
| ABSENT: | Doug Rogers | Board Member |
| STAFF: | Scott Collins
Jennifer Callaway
Rob Livick
Janeen Burlingame
Damaris Hanson
Joe Mueller
Eric Casares | City Manager
Acting Public Works Director
City Engineer
Management Analyst
Environmental Program Manager
Utilities Division Manager
WRF Program Manager |

ESTABLISH QUORUM, CALL TO ORDER

The meeting was called to order at 5:30 P.M. with all but Board member Doug Rogers in attendance.

MOMENT OF SILENCE

PLEDGE OF ALLEGIANCE

ANNOUNCEMENTS

<https://youtu.be/mBwH8VpoZH4?t=101>

PRESENTATIONS – None

PUBLIC COMMENT

<https://youtu.be/mBwH8VpoZH4?t=175>

The public comment period was opened.

Betty Winholtz, Morro Bay resident, inquired how the Board handles public comment for each item, if it is during each item or all at this time.

Carole Trusedale, Morro Bay resident, stated she would hold her comments as she thought she had to make them now and thanked Betty Winholtz for her question about how public comments are handled.

The public comment period was closed.

A. CONSENT AGENDA

<https://youtu.be/mBwH8VpoZH4?t=344>

A-1 APPROVAL OF MINUTES FOR THE FEBRUARY 19, 2020 PUBLIC WORKS ADVISORY BOARD REGULAR MEETING

The public comment period was opened, and seeing none, the public comment period was closed.

MOTION: John Erwin moved to approve Item A-1. The motion was seconded by Janith Goldman and carried 5-0-0 unanimously by roll call vote.

B. BUSINESS ITEMS

B-1 DIRECTOR'S REPORT

<https://youtu.be/mBwH8VpoZH4?t=540>

Jennifer Callaway presented the Director's Report.

Discussion, comments and questions amongst Board members and staff.

The public comment period was opened, and seeing none, the public comments period was closed.

Discussion, comments, and questions continued amongst Board members and staff.

B-2 REVIEW OF POTENTIAL CHANGE ORDERS (PCO) FOR THE WATER RECLAMATION FACILITY

<https://youtu.be/mBwH8VpoZH4?t=1755>

Eric Casares presented the staff report.

Discussion, comments and questions amongst Board members and staff.

The public comment period was opened.

Betty Winholz, Morro Bay resident, noted she was impressed with all the good questions the Board asked. She inquired how was it we didn't know these things ahead of time as Black and Veatch who was the designer, and now builder, knows how to build these plants so why weren't some of these things included, noting when they give a final price these things should not be taken out to get the bid and then put back in later to get more money. She also inquired about the earth moving, if that is part of the change orders or not, and if for every \$1 million spent is another \$1 on her bill. Ms. Winholtz stated all the redundancy of fencing was disturbing and seems like a lot but understands they each serve a different purpose.

Carole Truesdale, Morro Bay resident, stated she has issue with PCOs 39 and 59 which correlates to \$2,453,209 that will be put on the rate payer's backs. She also stated the red legged frog is nocturnal and asked why in the EIR this issue was not addressed and if a biologist came out at night to check if these frogs were croaking, noting she is upset being charged for something that should have been done before.

Dan Sedley, Morro Bay resident, wanted to know why with the City obtaining a WIFIA loan for 1/3 of what was expected, the rate payers not being looked at or discussed for a rebate. He stated we were told Black and Veatch had world experience and knowledge how to do this process, now we have 26 PCOs and it appears they do not know what they were doing, noting we would have some PCOs, but not this many. He expressed issues with PCOs 39 and 59, noting not sure why Black and Veatch or Carollo saying red legged frogs are not an issue when they have been an issue in this city since forever. Regarding PCO 47, inquired why need \$85,000 in changes for furnishings, and what's the cost and purpose of the cyclone fencing and privacy screens that's required.

The public comment period was closed.

Discussion, comments, and questions continued amongst Board members and staff.

B-3 REVIEW OF CONSTRUCTION WORK ZONE RESTRICTIONS DEVELOPED FOR THE CONVEYANCE FACILITIES COMPONENT OF THE WATER RECLAMATION FACILITY PROJECT

<https://youtu.be/mBwH8VpoZH4?t=8244>

Eric Casares introduced Paul Amico and Sarah Rossetto who presented the staff report.

Discussion, comments and questions amongst Board members and staff.

The public comment period was opened.

Betty Winhotz, Morro Bay resident, asked where the dirt was going to go, and stated concern about contacting the neighborhood, not just the businesses, and wanting to know going to work that as it will be major traffic in their streets. She inquired if the transpacific line is under Quintana, how this bid is going to be different from the other for the 100% and 60% design plans and change orders, and if businesses know the project will be making three passes in front of their business instead of just one.

The public comment period was closed.

Rob Livick, Paul Amico, and Sarah Rossetto responded to Betty Winholtz's questions.

Discussion, comments, and questions continued amongst Board members and staff.

FUTURE AGENDA ITEMS

<https://youtu.be/mBwH8VpoZH4?t=12548>

Rob Livick noted the pavement management plan update and Director's Report would be on the June agenda.

ADJOURNMENT

The meeting adjourned at 9:00 P.M.

Recorded by:

Janeen Burlingame
Management Analyst



AGENDA NO: B-1

MEETING DATE: June 17, 2020

MEMORANDUM

TO: Public Works Advisory Board
CC: City Manager
DATE: June 11, 2020
FROM: Jennifer Callaway - Acting Public Works Director

SUBJECT: Director's Report / Information Items

Please contact the individual staff members prior to the meeting for more detailed information.

Notify Me: Sign up for Notify Me on the City's Website www.morrobayca.gov/notifyme to be notified by email when Council, Board's and Commission's agendas and minutes are posted on the website.

Service Requests: Citizens can report a concern to the City for predetermined issues without the need to phone the City during business hours (for example: reporting a pothole) by using a feature on the City's website, Service Requests www.morrobayca.gov/905/Service-Requests, or the mobile App (available on both Android and IOS operating systems).

Staff can also add Service Requests for someone over the phone or in the office if they do not have access to a computer. Each category in Service Requests is assigned to the appropriate staff member to handle so citizens don't have to figure out what department to contact for an issue they need to report on.

CONSOLIDATED MAINTENANCE
COMPLETED SERVICE REQUESTS AND WORK ORDERS
5/9/2020 TO 6/8/2020
 Staff Contact: Matt Bishop

Service Requests Completed	
Maintenance Request	1
Tree Fallen Across Sidewalk	1
Service Request Total	2

Work Orders Completed			
Facilities		Landscape Areas	
Appliance Repair	1	Haul Debris	1
Bldg. Envelope Other	1	Other	1
Electrical	1	Parks	
Flooring	1	Maintenance	1
General Repair	2	Other	3
HVAC	4	Restrooms and Trash	
Roof & Gutter	1	Maintenance	2
Fleet		Repair	1
Body Work	1	ROW-Sidewalks-Paths	
Electrical System	1	Graffiti Removal	
Equipment Overhaul	1	Streets	
Oil Change Lube	1	CMA Patch	3
Install Equipment	2	Other	1
Shop Inspection	1	Remove Sign	1
Oil Change Lube	5	Street Trees	
Shop Inspection	1	Evaluation	1
			Work Order Total
			39



CONSOLIDATED MAINTENANCE PROJECT PICTURES

Staff Contact: Matt Bishop

Community Center

New signs and re-purposed drought tolerant plants were installed at the entrance and parking lot borders.

Centennial Parkway Public Restrooms

Patched, primed and painted both men's and women's public restrooms.

Crosswalks and Stop Bars

Refreshed several crosswalks down Morro Bay Boulevard and stop bars around town with white thermal striping.



CONSOLIDATED
MAINTENANCE FACILITIES
Staff Contact: Matt Bishop

Tidelands Park - Stormwater Pocket Park Capital Project

Consolidated Maintenance staff excavated several tons of native soil creating a bioretention area with drainage components such as filter fabric, pipe, rock and biofiltration soil media. Pocket Park will be finished with a concrete walkway, pavers and decorative landscape. Concrete contractor commences work 6/11/20. Then final landscaping will be performed by city forces and volunteers.



Keep Your Distance. Slow the spread.

Protect yourself and others from virus spread by keeping a 6 foot distance from other people.

Thank you for doing your part to help slow the spread of COVID-19 by practicing social distancing to put space between yourself and others, as well as continuing to practice healthy habits like washing your hands for at least 20 seconds and staying home if you're sick.

TRANSIT AND TROLLEY

Staff Contact: Janeen Burlingame

Morro Bay Transit continues to follow the Centers for Disease Control's (CDC) best practices and recommendations to prevent the spread of COVID-19:

- Increased frequency of interior vehicle cleaning and disinfection of high touch areas and seating
- Drivers wearing protective equipment, including masks and gloves
- Public notices promoting proper hygiene, staying home if feeling ill, covering coughs and sneezes, avoid touching your face.
- Limiting number of riders on bus at one time to provide for physical distancing

As with Transit, the Trolley once its season begins will follow the Centers for Disease Control's (CDC) best practices and recommendations to prevent the spread of COVID-19. Frequency of interior vehicle cleaning and disinfection of high touch areas and seating will be increased from previous year's cleaning schedule. Drivers will wear protective equipment including masks and gloves.

Staff is looking at additional methods to disinfecting buses and trolleys in addition to the more frequent cleaning that occurs during the operating day, as well as ways to provide for a more physical barrier between drivers and riders to prevent the spread of droplets.

FY 2020/21 Budget

There will be a 16.8% reduction of Local Transportation Funds and an 18.7% reduction in State Transit Assistance funds that the City will receive for FY 2020/21, resulting in an almost \$85,000 loss of funding when compared to the current fiscal year. Additionally, the SLO Regional Transit Authority released its budget with the cities and county allocations that come off the top of our LTF allocations for its regional services per the Joint Powers Agreement. This will result in a 30% increase of the City's contribution to the RTA. With the resulting loss of LTF and STA funding, the current levels of Transit service could not be sustained. The proposed FY 2020/21 budget will provide for Monday through Friday Transit service at the existing operating hours while Saturday service would be eliminated.

WATER – OPERATIONS

Staff Contacts: Joe Mueller

Damaris Hanson

Operations and Maintenance May 2020:

Distribution

- Exercised 31 mainline water valves throughout the city.
- Responded to seven after-hour callouts:
 - Elena tank high level – pressure reducing valve adjustments
 - Elena tank high level – Orcas street valve (normally closed) found open
 - Elena tank low level – communications loss at Errol street bypass
 - Water leak 2080 Sunset – customer side, shut off at curb stop
 - Nutmeg tank low level – motor saver tripped breaker
 - Water leak 498 Fresno – customer side, shut off at curb stop
 - Water leak 379 Orton – pressure blow off valve leaking, replaced end of line and valve
- Performed 25 water service turn-offs and 46 water service turn-ons.
- Replaced three water meters throughout town.
- Located and marked 48 Underground Service Alerts.
- Investigated 36 distribution issues ranging from meter re-reads, meter high reads, pressure issues, and water quality concerns.
- Poured concrete footing and pad around hydrant at Beachcomber & Mindoro.
- Stripped old roof off Vashon booster station, replace rotten wood, install new roof vents, new door and landscaped around the structure.
- Cleaned pressure reducing valve and paint at MBPD parking lot.
- Replaced broken valve at highway 1 end of southbound exit ramp at highway 41.
- Investigated low flow through Errol street bypass, cleaned and flushed out flow meter and found a water distribution valve stuck at 90 percent closed.
- Checked distribution system pressures at various fire hydrants, adjust pumping and tank levels.

Treatment

- Continued decommissioning old desalination equipment from RO building.
- Installed shop sink at RO facility for washing hands and tools.



Replaced broken water valve



Rebuilt system pressure reducing valve



Replaced roof and painted Booster pump station

Submitted reports to the State, [electronically](#): No Violations

- May 2020 Monthly Monitoring Report
- May 2020 Monthly Water Rights Extraction Report
- May 2020 Monthly Water Conservation Report
- Annual Water Rights Diversion Report
- Consumer Confidence Report (CCR) 2019 www.morrobayca.gov/CCR2019

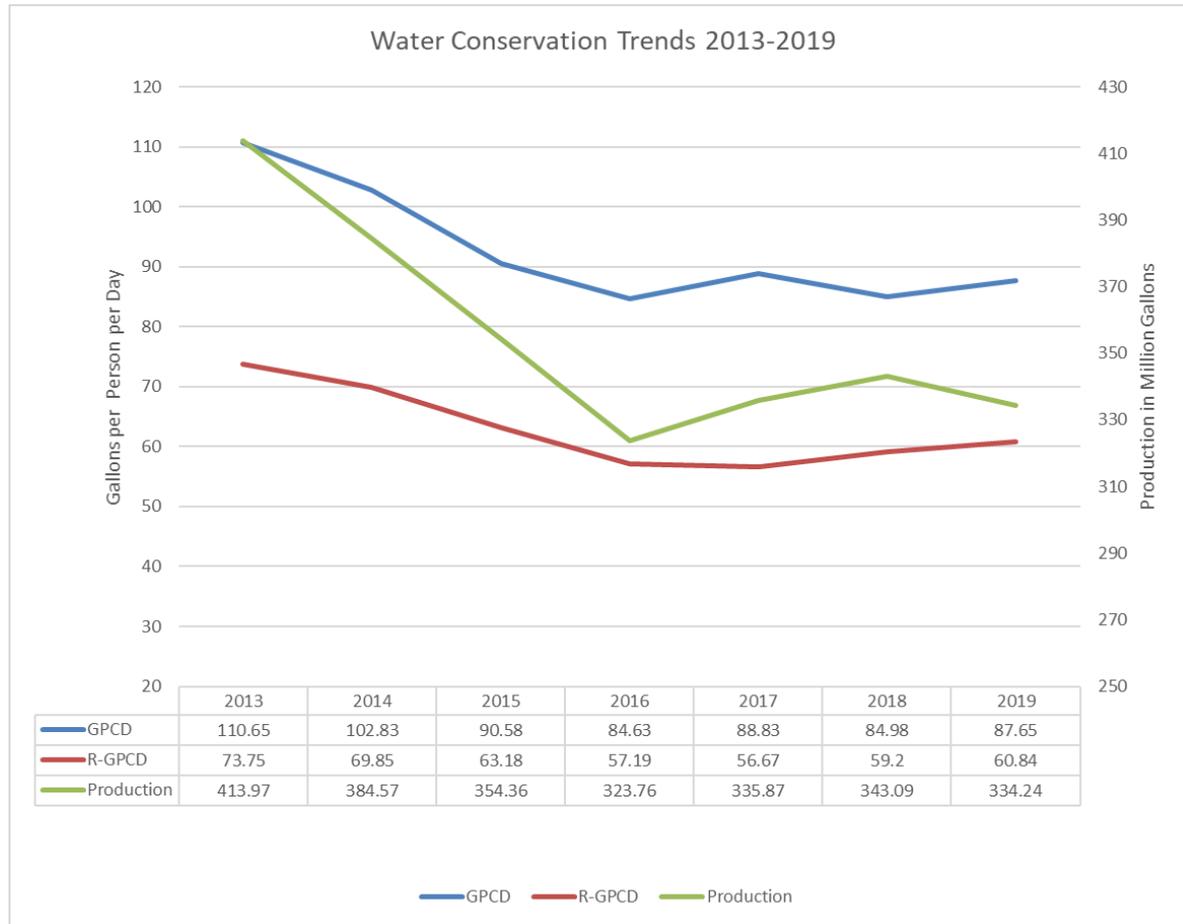
WATER – CONSERVATION

Staff Contact: Damaris Hanson

Annual Summary

Water conservation trends show water usage and production has continued to decrease in the last several years.

Currently due to COVID -19 stay-at-home order, the Residential water usage has increased by approximately 10% compared to Commercial water usage, which has decreased by approximately 39% when comparing March and April 2019 to March and April 2020



Please remember to make water conservation a way of life!

City water conservation rebates available; Cash for grass, rain barrel, irrigation retrofit, SMART irrigation controller, toilet retrofit and Energy star washing machine. State rebates now available for removing grass, add replacing a toilet that flushed more than 1.6 gallons per flush (\$100).

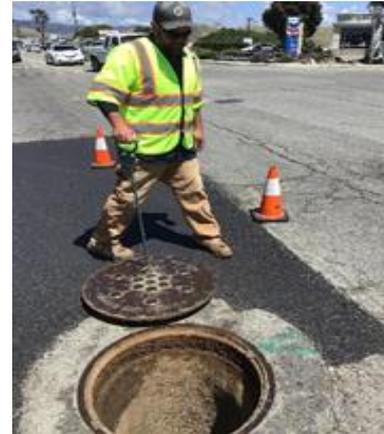
WASTEWATER – COLLECTIONS

Staff Contacts: Joe Mueller

John Gunderlock

Operations and Maintenance May 2020:

- Hydro cleaned approximately 30,250 feet of city main line.
- Video inspected (CCTV) 994 feet of gravity main line.
- On-call staff received 2 afterhours callouts:
 - Lift Station #3 Power Fail
 - Lift Station #2 Pump Overcurrent
- Performed Lift Station maintenance on generators at Lift Stations 2&3. Washed and Wax generators to help preserve the exterior from salt corrosion.
- Sampled pH levels from Mission Linen.
- Inspected 21 Manholes in the system for defects.
- Inspected 3 Lateral tie-in connection that was installed or replaced onto city gravity main lines.
- Paved asphalt in Caltrans Right away where a sewer pipeline was repaired



WASTEWATER – TREATMENT

Staff Contacts: Joe Mueller
John Gunderlock

Operation & Maintenance May 2020

- Flow for the month of May averaged 1.096 Million Gallons per Day (MGD) and totaled 33.969 million gallons.
- 0.25 inches of precipitation was recorded in the month of April.
- Responded to two after hour callouts in May for plant chlorine adjustments.
- Cleaned pump feed heads on all Sodium Bisulfite chemical pumps.
- Drained primary clarifier #2, cleaned and inspected.
- Drained chlorine contact chamber, cleaned and inspected.
- Washed and lubed the front-end loader.
- Flushed digester #3 j-box due to random plugging.
- Cleaned primary sludge level monitoring devices.
- Installed a datalogging electrical conductivity meter on the influent grit chamber.
- Plant laboratory is routinely sampling secondary effluent for electrical conductivity and Bromide.
- Changed oil, cleaned ports and replaced broken oil drain piping on the biofilters.
- Replaced broken sheer-pin on north chlorine contact drive unit.
- Installed new temperature and pressure gauges on both boilers.
- Safety inspected all ladders in the utilities department.
- Cleaned influent composite sampler intake diffuser.
- Drove the solar drying beds with front-end loader to speed drying time.
- Sampled influent wastewater to detect for presence of Covid-19 RNA; the study was performed countywide; the City of Morro Bay results came back non-detect.
- Laboratory staff passed the annual quality assurance study WP-303 with 100 percent acceptable results and 97.9 percent accuracy.



Clarifier #2



Chlorine Contact Chamber

Utilities Staff attended the following training:

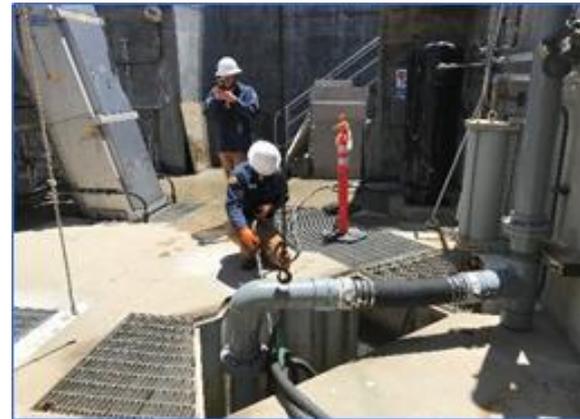
- In-house briefings to address Covid-19 social distancing and safety precautions
- Tailgate meeting to review Safety Data Sheet (SDS) standardized 16-section format

Submitted reports to the State, [electronically](#):

- April 2020 Monthly Discharge-Monitoring Report (eDMR)
- April 2020 Monthly Self-Monitoring Report (eSMR)
- First Quarterly Progress Report on Time Schedule Order Compliance (TSO)



Biofilter maintenance



Removal of emergency bypass pump for annual maintenance

ENGINEERING/CAPITAL PROJECTS

Staff Contact: Rob Livick

Highway 41/Main/Highway 1 – No Change

- Project construction is still financially constrained
- Contract completed with GHD formerly Omni-Means to complete Pre-Design and Environmental Determination on track for December 2020
- Working with City's funding partners the San Luis Obispo Council of Governments (SLOCOG) & Caltrans on funding and design options

Pavement Management

- No major maintenance work in FY 2019/20 and perhaps not 2020/21 depending on revenue.
- Update in August

Water System Improvements – Nutmeg Pressure Zone Fire Flow Improvements

- Project underway
- Addressed in the OneWater – Water System Capital Improvement Plan
- City Council approved a contract with Cannon Corp for planning and design service
- This phase of the project will bring the project to 30-percent design, complete the CEQA determination and permitting through the County and City; and property acquisition.

Collection System Repairs – Beachcomber, Main Street and Atascadero Road Sewer Main R/R

- Project Underway
- Addressed in the OneWater – Wastewater Collection System Capital Improvement Plan
- City Council approved a contract with Cannon Corp for design services
- Design to be complete Spring 2021
- Construction proposed for Summer/Fall 2021

Misc. Small CIPs

- North Point Parking Lot: Project canceled due lack of funds available in the assessment district accumulation.
- Boat Rinse Off WQ/Tidelands Pocket Park: Contracting for "flatwork". City Crews expected to perform approx. 40% - 50% of work including demo and grading.
- Bocce Ball/Greenhouse on Shasta and Dunes: "Volunteer in conjunction with City Staff. On hold until after COVID restrictions.

Cloisters Landscaping Improvements – Concept Plan

- Concept plan approved by City Council on October 22
- City Council appropriated funding from the Assessment District to complete the first phase of landscape improvements.
- Final Design 90-percent complete. Engineering Staff working with maintenance staff on material procurement

Sequoia Storm Drain Repair/Replacement

- A "sink hole" developed due to wear to the existing storm drain
- In house design is underway for the repair

Laurel Easement Storm Drain Repair

- 1950's vintage CMP storm drain leaking and caused erosion and exposed sewer main
- In house design is underway for the repair

Proposed Operating and Capital Improvement Program is online at: [Proposed FY2020/21 Budget](#)

ENGINEERING/DEVELOPMENT REVIEW

Staff Contact: Rob Livick

Staff is working on the following projects:

- 405 Atascadero, 35-unit multi-family low income housing: Planning Review
- 535 Atascadero, Parcel Map (MB 15-0103) with Public Improvements: In Plan check and Map Check
- Paula/Ironwood two lot subdivision - Map Check
- Harborview Hotel/Commercial: Planning Review
- Hotel Development – NW corner Atascadero Road West and Highway 1: In Plancheck
- Sonic Restaurant – Main and Highway 41: Plancheck – Permit Extended to March 2021
- Rose's Landing Upstairs 10-Room Hotel – Under Construction
- US Coast Guard Addition: Pending Construction
- Morro Bay Landing: Complete
- Three Stacks and a Rock Brewery at Former Aquarium Building: In Plancheck
- Residential remodels and construction: 16 Projects in various stages of review
- Encroachment Permits Issued: 8 in May

WASTEWATER – NEW WRF

Staff Contact: Rob Livick

- Work continues in accordance with City Council direction.
- Additional Information at <http://morrobaywrf.com/>
 - [Factsheet](#)
 - [Dashboard](#)



AGENDA NO: B-2

MEETING DATE: June 17, 2020

Staff Report

TO: Public Works Advisory Board **DATE:** June 11, 2020
FROM: Jennifer Callaway, Acting Public Works Director / Finance Director
Damaris Hanson, Environmental Program Manager
SUBJECT: Annual Water Report 2019 and Recommendation for Allocation of Water Equivalency Units (WEU) for FY2020-21

RECOMMENDATION

Staff recommends the Public Works Advisory Board review the 2019 annual water report and allocation of the FY 2020/21 Water Equivalency Units and forward the following recommendations to City Council:

1. Allocate 50 Water Equivalency Units (WEUs) for residential development and 65 for commercial development for a total of 115 WEUs for FY2020/21

BACKGROUND

The Public Works Department, Pursuant to Morro Bay Municipal Code (MBMC) Section 13.20, has prepared the Annual Water Report highlighting any significant changes in water availability and reporting the water equivalency units (WEU) from the previous year. A WEU is defined as a unit of measure for water use equal to the average amount of water used by a single-family residence over the period of one year. Since 2016 this amount is 8,732 cubic feet of water or 90 GPCD. This amount was lowered from previous years due to the historical trend of lower water use compared to previous years. The intent of the WEU allocations are to regulate the addition of new water users to the City's water system and to ensure the demand for water shall not exceed available water supply.

In 1984 the citizens adopted Measure F (Codified as Ordinance 266 in MBMC as Chapter 13.20), a "Growth Management System". This measure set a maximum population of 12,200 by the year 2000. To accomplish the housing needs of this population growth, Measure F set a maximum number of housing units to a limit of 70 new units per year with a maximum variation in the number of units in a year cannot exceed 10 percent or 77 WEUs for residential units. City Council acted on August 27, 2007 to reduce the number of allocated housing units to 50 new housing units. Ordinance No. 266 requires allocation mix of 60-percent SRF and 40-percent MFR. Since housing and population growth has not increased as projected, i.e. the City has yet to reach Measure F population of 12,200, new housing units can still be issued. The population growth estimates in the proposed General Plan predict reaching the Measure F established population in 2040.

Prepared By: DH Dept Review: _____

DISCUSSION

Projected Water Supply FY20/21

The City of Morro Bay's primary water source is surface water from the State Water Project (SWP). The SWP is administered locally by the San Luis Obispo County Flood Control and Water Conservation District. The water available from the SWP (allocation) is determined every year by the State Department of Water Resources and is based on rainfall and snowpack in the watersheds that serve as a source for the SWP. The SWP annual allocation to contractors for 2020 is 20-percent of the total contracted amount. For Morro Bay this results in a delivery of 721-acre feet of SWP water. This allocation in combination with the City's available drought buffer and storage in San Luis Reservoir along with the Countywide excess availability and local production; is enough to make up the difference between delivery requests and the City's estimated demand of 1,030 acre feet.

State Water is an interruptible source of water. If there is a line break/repair or an emergency, Morro Bay could be without water from this source. In 2019 the Chorro Valley pipeline, which serves Morro Bay along with CMC, Cuesta and the County Operations Center was unable to provide the requested amounts of water for several months, due to a faulty control valve, which has been repaired. Additionally, the SWP does "shut down" once a year for routine maintenance, typically in October and/or November and has typically been anywhere from 1-2 weeks to a month.

The City's other sources of water are constrained as well, by a variety of water quality, and permitting issues. To use the Chorro Valley wells requires stream flows in Chorro Creek must exceed 1.4 cubic feet per second (cfs) per the City's water rights license/permit; additionally, water pumped from these wells are high in nitrates and cannot be used without treatment or blending. The City would need to perform upgrades to the water system in order to treat this water from the Chorro Valley. The Morro Valley wells are also high in nitrates and are treated at the City's Water Treatment Plant, the Brackish Water Reverse Osmosis (BWRO) is used to remove nitrates. There are also upgrades needed at the BWRO plant if this plant was to be used on a continuous basis.

Local Conservation Requirements: June 2018 City Council revised the water conservation requirements to implement Mandatory Water Conservation Requirements. This is a step down from Severely Restricted Water Supply Conditions. The main difference between these two requirements being mandatory requirement do not restrict the day in which you can water outdoors. In June 2016, Morro Bay completed the "stress test" and reduced our mandatory water conservation requirements from 12% to 0%. Over 83% of the State had 0% conservation after the stress test was completed. Morro Bay has continued to reduce water use over the years when compared to the base year, 2013. From 2014 to the present the City's water conservation rate has continue to decrease. For additional information on the SWP in San Luis Obispo County visit the County's [website](#).

Water Conservation compared to 2013	
Year	% reduction from 2013
2014	-8
2015	-13
2016	-21
2017	-19
2018	-20
2019	-19

Water Management Planning

The OneWater plan was adopted by City Council in November of 2018. The OneWater Plan reviewed all the City’s water resources (Potable Water, Wastewater and Stormwater) holistically to have a complete water resource picture. The OneWater plan did a complete study of the City’s water portfolio and determined that due to the restrictions on the Chorro Valley water rights this is not a reliable water source for the City. Additionally, due to the costs associated with seawater desalinization, recommended discontinuation of this as a water supply. On November 27, 2018 City Council adopted Resolution 92-18 approving the OneWater Planning document which documented one of the Council’s major goals:

“the OneWater planning effort (Plan) has continued as a City Goal since 2016 and the following was included in the 2018 Council’s approved Goal and Objectives document:

Goal 2: Water Reclamation Facility (WRF) and OneWater Review and Implementation...The City is also working on a comprehensive plan looking at all the city’s systems that address water, from sewer to potable water to stormwater. The OneWater Plan establishes a plan to secure our water future and establish a long-term capital improvement plan to improve water and sewer infrastructure;”

and provided the following direction regarding water supply:

“Staff is directed to use the recommendations for water supply options section of the Plan as guidance in the consideration, development and implementation regarding the composition of the City’s future water supply portfolio.

Staff is directed to take the following actions regarding specific water supply options:

A. Begin the decommissioning of the City’s seawater desalination facility, including but not limited to inactivation of the sea water wells, removal of the seawater pumps and removal of the sea water reverse osmosis pressure vessels, and

B. Begin the process to relinquish water rights in the Chorro Valley, including the discontinuation of stream flow monitoring.”

The new Water Reclamation Facility will provide the City with the ability to provide up to 800 acre-feet per year of water through (indirect) potable reuse (in accordance with Title 22 of California's Code of Regulations) by injecting this highly purified water into the Morro Valley groundwater basin and recovering that water with its existing extraction wells. This water source was determined to be a more reliable, sustainable and cost-effective water source than other options analyzed in the OneWater plan.

Potable Water Production Summary

As shown in Attachment 1, Water production from 1980-2019, no water was extracted from Chorro and Morro Basins for direct distribution into the water supply, 938 acre-feet were delivered from the State Water Project (SWP), and 101 acre-feet of treated Morro Basin well water from the BWRO treatment plant. Attachment 2 provides an historical record of water production and use from 1960 through 2019.

Summary of FY 2019-2020 activity:

The Council authorized 115 WEUs for FY 2019-2020. Thirty WEUs to be used for single-family dwellings and 20 for multiple-family dwellings with 65 allowed for commercial/Industrial uses. Those WEUs were allocated on a first-come, first-served basis. The tracking of the WEUs utilized for FY 2019-2020 indicates 37 of the 115 WEUs allocated were used as follows:

- 0.59 Commercial (Virg's Landing)
- 6 Single-Family
- 1.5 Multi-Family (three-unit apartment building, 0.5 WEU per unit)

This is not a comprehensive list of all building activity, but rather a list of those activities which required a WEU allocation.

Conclusion:

Staff recommends the Public Works Advisory Board forward a recommendation to Council to allocate 115 WEU for FY 2020-2021. Fifty WEUs, 30 for SFR and 20 for MFR. Also allocate 65 WEUs for Commercial/Industrial development for a total of 115 WEUs.

ATTACHMENTS

1. Table 1: Water Production by source
2. Table 2: Per Capita Water Use

TABLE 1

WATER PRODUCTION PER SOURCE 1980 - 2015
(Acre Feet - AF)

Year	Chorro Basin	Morro Basin	** R/O Plant	State Water	TOTAL (AF)
1980	1079	672	*	*	1751
1981	1143	584	*	*	1727
1982	1061	526	*	*	1587
1983	995	537	*	*	1532
1984	1097	572	*	*	1669
1985	1108	582	*	*	1690
1986	1059	552	*	*	1611
1987	1124	531	*	*	1655
1988	1120	528	*	*	1648
1989	1047	512	*	*	1559
1990	963	564	*	*	1527
1991	808	449	*	*	1257
1992	1049	270	*	*	1319
1993	994	397	*	*	1391
1994	954	460	*	*	1414
1995	986	420	*	*	1406
1996	1261	240	*	*	1501
1997	985	249	*	301	1535
1998	38	*	*	1288	1326
1999	34	*	*	1359	1393
2000	4	*	*	1396	1400
2001	11	*	*	1399	1410
2002	1	32	48	1373	1454
2003	1	28	13	1379	1421
2004	49	213	10	1205	1477
2005	204	150	0	1007	1361
2006	257	80	25	1009	1371
2007	276	35	19	1116	1446
2008	184	52	28	1175	1439
2009	235	80	64	1069	1448
2010	74	54	258	873	1259
2011	14	0.5	84	1144	1243
2012	0	3.9	70	1129	1203
2013	0	27	107	1137	1271
2014	0	0	41	1141	1183
2015	0	0	138	952	1088
2016	0	0	36	958	994
2017	0	0	106	925	1031
2018	0	0	93	960	1053
2019	0	0	101	938	1039

** R/O Plant Production numbers include both Morro Groundwater treated via Brackish Water Reverse Osmosis (BWRO) as well as Sea Water Reverse Osmosis (SWRO).

TABLE 2

TOTAL HISTORIC WATER PRODUCTION & PER CAPITA USAGE
FOR THE CITY OF MORRO BAY

Year	Rainfall	City Population	Production in acre feet	Production in millions of gallons	Average daily production in millions of gallons	Average use in gallons per capita per day
1960	10.48	5,599	894	291	0.8	142
1961	8.6	*	842	274	0.75	*
1962	17.22	*	999	326	0.89	*
1963	18.52	*	840	274	0.75	*
1964	11.26	*	881	287	0.79	*
1965	16.08	6,400	1000	326	0.89	140
1966	11.24	6,500	1188	387	1.06	163
1967	20.09	6,600	1194	389	1.07	161
1968	9.64	6,750	1298	423	1.16	172
1969	28.74	6,900	1255	409	1.12	162
1970	9.84	7,109	1534	500	1.37	193
1971	14.2	7,450	1533	500	1.37	184
1972	7.41	7,517	1547	504	1.38	184
1973	27.51	7,725	1424	464	1.27	165
1974	22.35	7,942	1482	483	1.38	167
1975	14.43	8,165	1510	492	1.35	165
1976	11.38	8,394	1574	513	1.41	167
1977	8.35	8,525	1249	407	1.12	131
1978	29.68	8,625	1430	466	1.28	148
1979	17.06	9,150	1614	526	1.44	157
1980	20.99	9,064	1651	538	1.47	162
1981	13.11	9,206	1727	563	1.54	168
1982	20.01	9,297	1586	517	1.42	152
1983	35.01	9,435	1534	500	1.37	145
1984	10.08	9,599	1669	544	1.49	155
1985	10.02	9,747	1691	551	1.51	155
1986	17.17	9,881	1614	526	1.44	146
1987	12.29	9,819	1655	539	1.48	150
1988	15.01	9,975	1648	537	1.47	147
1989	10.88	10,133	1559	508	1.39	137
1990	8.78	9,664	1527	498	1.36	141
1991	16.01	9,806	1256	410	1.12	114
1992	19.63	9,736	1319	430	1.18	121
1993	24.21	9,979	1391	452	1.24	124
1994	11.05	10,071	1414	462	1.26	126
1995	40.01	9,518	1418	462	1.27	133
1996	15.47	9,687	1501	462	1.34	138
1997	18.56	9,696	1535	489	1.37	141
1998	18.01	9,845	1326	432	1.18	120
1999	13.11	9,871	1393	454	1.24	126
2000	19.63	10,410	1400	456	1.25	120
2001	16.04	10,486	1410	459	1.26	118
2002	9.36	10,510	1454	474	1.3	123
2003	13.75	10,485	1421	466	1.28	122
2004	9.48	10,522	1477	481	1.32	125
2005	30.19	10,270	1361	444	1.22	118
2006	18.9	10,491	1371	447	1.23	117
2007	7.24	10,436	1446	471	1.29	118
2008	13.34	10,548	1439	469	1.23	122
2009	12.25	10,555	1448	472	1.29	120
2010	17.26	10,608	1259	410	1.12	106
2011	12.99	10,234	1243	405	1.11	108
2012	10.16	10,327	1203	392	1.07	105
2013	4.05	10,370	1349	440	1.21	117

TABLE 2

**TOTAL HISTORIC WATER PRODUCTION & PER CAPITA USAGE
FOR THE CITY OF MORRO BAY**

Year	Rainfall	City Population	Production in acre feet	Production in millions of gallons	Average daily production in millions of gallons	Average use in gallons per capita per day
2014	12.62	10,234	1183	385	1.05	103
2015	8.55	10,544	1088	354	0.97	92
2016	18.79	10,284	994	324	0.88	86
2017	18.73	10,284	1031	336	0.92	89.5
2018	15.1	10,439	1053	342	0.94	90.0
2019	19.32	10,439	1039	339	0.93	89.0

a: [average] determined from metered water sold, not water produced

