

**JOINT MEETING
CITY OF MORRO BAY AND CAYUCOS SANITARY DISTRICT
WASTEWATER TREATMENT PLANT
(UNDER JOINT POWERS AGREEMENT)**

Cayucos Sanitary District Board of Directors:

Robert Enns, President
Bud McHale, Vice-President
Harold Fones, Director
Shirley Lyon, Director
Michael Foster, Director

City of Morro Bay City Council:

Janice Peters, Mayor
Carla Borchard, Vice-Mayor
Noah Smukler, Councilmember
Betty Winholtz, Councilmember
Rick Grantham, Councilmember

AGENDA

MEETING DATE:

6:00 p.m., Thursday, September 9, 2010

MEETING PLACE:

Multi-Purpose Room, Community
Center
1001 Kennedy Way
Morro Bay, CA 93442

HOSTED BY:

City of Morro Bay

CALL TO ORDER AND ROLL CALL

PUBLIC COMMENT PERIOD

Members of the audience wishing to address the governing bodies on Morro Bay-Cayucos Wastewater Treatment Plant (WWTP) business matters may do so at this time. By the conditions of the Brown Act, the governing bodies may not discuss issues not on the agenda, but may set items for future agendas. When recognized by the Chair, please come forward to the podium and state your name and address for the record. Comments should be limited to three minutes.

A. CONSENT CALENDAR

1. Minutes of July 8, 2010 JPA Meeting – Recommend approve.
2. Minutes of July 15, 2010 JPA Meeting – Recommend approve.
3. Wastewater Treatment Plant (WWTP) Operations Report through July, 2010 – Recommend receive and file
4. Status Report on the Proposal from PERC Water – Recommend receive and file

B. OLD BUSINESS

1. Status Report on Upgrade Project as of August 27, 2010– Recommend receive and provide direction to staff

C. NEW BUSINESS

1. Report from TAC Members on the August 19, TAC meeting – Recommend receive and file
2. Discussion and Confirmation of the Role of the WWTP Project Manager - Recommend receive and provide direction to staff
3. Consideration and Discussion of Conceptual Site Plan for the WWTP Upgrade Project - Recommend receive and provide direction to staff
4. Consideration and Discussion of Architectural Treatment for the WWTP Upgrade Project - Recommend receive and provide direction to staff
5. Presentation of Preliminary Project Cost Estimates for the WWTP Upgrade Project – Recommend receive and provide direction to staff
6. Schedule Next Joint Meeting and Agenda Items

ADJOURNMENT - (Next meeting will be hosted by the Cayucos Sanitary District)

Copies of staff reports and other public documentation relating to each item of business for this meeting are available for inspection at Morro Bay City Hall at 595 Harbor Street and the Cayucos Sanitary District at 200 Ash Ave. A copy of this packet is available from the City of Morro Bay for copying at Mills Copy Center and from the Cayucos Sanitary District for a copy and duplication charge. Any person having questions regarding any agenda items may contact Bruce Keogh, Wastewater Division Manager (City of Morro Bay) at 772-6261 or Bill Callahan, District Manager (Cayucos Sanitary District) at 995-3290.

Materials related to an item on this Agenda submitted to the Morro Bay/Cayucos Wastewater Treatment Plant Joint Powers Authority after distribution of the agenda packet are available for public inspection at; Public Services Office at 955 Shasta Avenue, Morro Bay, CA 93442; Morro Bay Library at 625 Harbor Street, Morro Bay, Ca 93442; Mills/ASAP Reprographics at 495 Morro Bay Boulevard, Morro Bay, CA 93442 during normal business hours.

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Noah Smukler, Councilmember
Betty Winholtz, Councilmember
Rick Grantham, Councilmember

MINUTES

MEETING DATE:

6:00 PM Thursday, July 8, 2010

HOSTED BY:

Cayucos Sanitary District

MEETING PLACE:

Cayucos Veterans Hall
10 Cayucos Drive
Cayucos, CA 93430

CALL TO ORDER AND ROLL CALL: President Enns called the meeting to order at 6:05PM and asked staff member, Anita Rebich to take roll.

Morro Bay City Council Mayor Janice Peters, Council members Carla Borchard, Betty Winholtz, Noah Smukler and Rick Grantham were present

Cayucos Sanitary District Board members President Robert Enns, Vice-President Bud McHale, Directors Hal Fones, Shirley Lyon, and Michael Foster were present.

PUBLIC COMMENT PERIOD

Members of the audience wishing to address the governing bodies on Morro Bay-Cayucos Wastewater Treatment Plant (WWTP) business matters may do so at this time. By the conditions of the Brown Act, the governing bodies may not discuss issues not on the agenda, but may set items for future agendas. When recognized by the Chair, please come forward to the podium and state your name and address for the record. Comments should be limited to three minutes.

President Enns opened public comment.

John Barta, a Morro Bay resident presented a brief scenario comparing buying an automobile to building a WWTP. He emphasized comparing apples to apples and researching the cost and technology to make sure you are getting what you pay for.

Bill Martoney, a Morro Bay resident agreed with John Barta as far as comparing apples to apples. He expressed his concern that quotes from MWH for a Title 22 WWTP have been all over the board. He asked that we look at a WWTP that will allow recharging the water basin so as not to compromise the water rights of the city to the farmers.

Robert Staller, a rancher on Hwy 41, expressed his opinion that we pick the best, cheapest and most attractive and that any consideration of a WWTP without water reclamation is hard to understand

Grant Crowl, a Morro Bay resident spoke about water and our duty to protect and provide fresh water. He presented Mayor Peters and President Enns with copies of a National Geographic magazine devoted to fresh water and water reclamation. He asked that they to peruse the magazine, share it with others and return to him.

Susan Heinemann, Morro Bay expressed her concern that the MWH project is based on 2006 cost factor and has a potential for overruns whereas the PERC design is fixed cost with no overruns. No surprises versus a blank check

Rob Aragon, PERC Water, complimented the staff on process and communications and thanked all involved
Hearing no further comments President Enns closed public comments.

A. CONSENT CALENDAR

1. Minutes of June 10, 2010 JPA Meeting – Recommend approve.
2. Minutes of June 16, 2010 JPA Meeting – Recommend approve
3. Wastewater Treatment Plant (WWTP) Operations Report through May 2010 – Recommend receive and file

President Enns asked for a motion to approve the consent calendar.

Smukler asked to pull item A1 from the Consent Calendar.

MORRO BAY MOTION: Grantham, Winholtz 2nd to approve Consent Calendar Items 2 and 3. VOTE: 5-0

A1. Smukler requested a correction to show Natalia Moreson is a Morro Bay resident

MORRO BAY MOTION: Smukler, Winholz 2nd to approve Item A1 as corrected. VOTE 5-0

CAYUCOS MOTION: McHale, Fones 2nd to approve Consent Calendar Items 1-3. VOTE: 5-0

B. OLD BUSINESS

- 1. Discussion and Consideration to Adopt the Draft Amendment #2 to the Facility Master Plan**
– Recommend Approve and provide direction to staff

Keogh explained the adoption of this amendment is a critical junction for project and allows the environmental process to proceed in a timely manner and it provides a project description for environmental consultants leading to completion of the draft EIR. Adoption would allow MWH to proceed with the preliminary design of the plant. Keogh explained some of the changes and the reasoning behind the changes that went into this amendment. It was emphasized that the adoption of this amendment works collectively for both MWH to proceed with preliminary design and PERC to prepare their CDR for review.

Livick added that the environmental review will include an analysis for an MBR plant allowing either plant design to go forward.

Steve Hyland of MWH presented an overview of the project phases, the basis of the WWTP upgrade and the objectives of the Draft Amendment #2 to the FMP which will lead to finalizing the FMP and provide a project description for EIR. Hyland spoke on the refinements found in Amendment #2 and presented a slide show, which provided greater detail on the refinements of revised flows and loads, advance treatment processes, he reviewed site preparation, improved plant layout and overall architectural concepts.

Smukler questioned the revised flows and loads, what appeared to be a larger footprint for the plant, associated construction costs for these revisions and the impact of these costs on the current City rate structure.

Hyland responded the costs for these changes will be included in MWH's estimated construction costs which will be in their Preliminary Design Report which will be part of the final design phase. Hyland explained the cost adjustments made to bring the 2006 indexes up to 2009 indexes to reflect a more accurate picture.

Dylan Wade further explained the cost contingency for 2006 to current and how it was taken into account for the current rate structure. Wade stated they do not anticipate having to revise the rate structure because of any of the design changes presented today. There may be other scenarios that may cause the rates to be looked at, but those will be dealt with as the project progresses.

Smukler asked if project contingency savings could be directed towards reclamation.

Wade stated that reclamation is not an expense that the wastewater ratepayers should be tasked with and deferred further discussion and questions to legal counsel.

Smukler asked how the Draft Amendment addresses flooding, tsunami, earthquake and sea level rise and whether the site is compatible for the WWTP.

Keogh and Wade both confirmed that would be covered in the environmental document by ESA.

There was further discussion on treated effluent uses, energy consumption, landscaping and a constructed wetlands for the project.

Grantham asked Hyland to better explain what was meant by "providing for Title 22 provisions"

Hyland explained where the provisions are in the amendment and how they would be addressed.

Winholtz asked about the rate structure that was adopted a few years back and its intent to build reserves to cover the infrastructure, she questioned the need for another rate evaluation in 2013 to cover the plant.

Wade explained this was a requirement of the SRF process.

Enns called for a break and the meeting resumed at 7:48pm.

Enns asked Tim Carmel to explain what the Council and Board are looking at and what they are being asked to vote on in regard to the Draft Amendment #2 to the FMP.

Foster complimented Hyland and staff on the smaller footprint of the WWTP and asked if this was the smallest we could go while still meeting the needs. He also questioned where the growth projections used in the Draft Amendment #2 for the cities came from.

Hyland explained we could go smaller, the initial design starts larger and as design goes on and things change, we can reduce as needed. Wade explained the projections came from the original FMP and that Morro Bay has a growth ordinance limiting its population. That maximum population was the number used in the projections.

Bill Callahan, Cayucos Sanitary District explained their projections were based on the number of lots in the sanitary district service area based on County projections.

Foster expressed his concern about soil and soil remediation and the impact that it can have on the project.

Wade explained they do have a monetary placeholder in the budget for remediation and soil stabilization

Livick commented that a preliminary geotechnical investigation was done to establish differential settlement

Further discussion continued between Board, Council and staff on soil remediation, stabilization, geotechnical reports and costs involved.

Enns asked for clarification on a couple items that had been discussed in previous JPA and JPA TAC meetings and how they were addressed in the Draft Amendment #2

Smukler asked about utilizing UV versus chlorination and is this a consideration we are looking at

Wade responded that it certainly was something that could be looked at but briefly explained the pros and cons

Foster touched upon the staff report discussing the project schedule, current timeline and associated penalties and asked why this had not been brought forward prior to this staff report

Keogh responded that the dates had been there, they are just putting a number to the project delay time. He pointed out that if the project is completed on time, the agreement states the interim penalties will be waived. By putting the monetary number in the report, he hopes it will act as an incentive to bring the milestones of the project forward.

Enns opened the meeting for public comment.

Richard Margotson, a Cayucos resident commented that he couldn't pull up staff report on the City website and requested in the future to have these reports available at the meeting for the public. He also commented on a slide that was shown by MWH at the June 16, 2010 meeting where numbers that were presented didn't add up and had an impact on the cost reporting. Wants to know who's checking this, asked that we look closely at the SRF process and overall costs and compare all these to PERC's proposal.

CAYUCOS MOTION: McHale made a motion to approve Draft Amendment #2 to the FMP with the option B1 to include the additional chlorine chamber, Fones seconded. VOTE 4-1

MORRO BAY MOTION: Borchard, Grantham seconded VOTE 5-0

2. Status Report on Request for Proposal (RFP) for Project Management for the WWTP Upgrade Project – Recommend receive and provide direction to staff

Keogh presented the overview of the process to date and announced the staff has a recommendation for award of the Project Management contract. It wasn't possible to bring the contract back in time to present at tonight's meeting and Keogh asked that the July 15, 2010 JPA TAC meeting be converted to a Special JPA meeting so the contract can be awarded. If the Special JPA meeting isn't possible, worst case scenario would be to bring this to the August JPA meeting and have the Project Manager there for Q&A and award of contract.

Board and Council discussed availability for a special meeting on July 15, 2010. Borchard announced she would not be available and would like to meet the candidate, Winholz and Smukler voiced concern with staff making the decision and the Board and Council just putting their rubber stamp on it.

The decision was made for a Special JPA meeting on July 15, 2010 prior to the JPA TAC meeting to vote on the staff recommendation for Project Management for the WWTP.

C. NEW BUSINESS

- 1. Discussion and consideration to Send a Letter to Regional Water Quality Control Board and USEPA Requesting a Reduction in Monitoring Frequency for Selected Parameters Contained in the Monitoring and Reporting Program of the NPDES Discharge Permit for the WWTP** – Recommend approval and provide direction to staff

Keogh presented an overview of the monitoring program and how it relates to the NPDES discharge permit. As per the Reasonable Potential Analysis (RPA), a reduction in monitoring frequency for 79 effluent parameters that have never been met, is both appropriate and justifiable.

CAYUCOS MOTION: McHale, Fones 2nd to approve Agenda Item C1. VOTE: 5-0

MORRO BAY MOTION: Borchard, Grantham 2nd to approve Agenda Item C1. VOTE: 5-0

1. Schedule Next Joint Meeting and Agenda Items

July 15, 2010 Special JPA meeting, Morro Bay Veteran's Hall.

The next scheduled regular JPA meeting will be August 12, 2010. Time and place TBA

Smukler asked that reclamation discussion be put on a future agenda.

Foster suggested formation of additional committees to assist staff with workload.

ADJOURNMENT –

President Enns adjourned the meeting at 9:13PM

**JOINT MEETING
CITY OF MORRO BAY AND CAYUCOS SANITARY DISTRICT
WASTEWATER TREATMENT PLANT
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**CAYUCOS SANITARY DISTRICT
BOARD OF DIRECTORS:**

Robert Enns, President
R.H. Bud McHale, Vice-President
Harold Fones, Director
Michael Foster, Director
Shirley Lyon, Director

**CITY OF MORRO BAY CITY COUNCIL:
MEMBERS PRESENT:**

Janice Peters, Mayor
Betty Winholtz, Vice-Mayor
Noah Smukler, Councilmember
Carla Borchard, Councilmember
Rick Grantham, Councilmember

MINUTES

MEETING DATE:

1:00 p.m., Thursday, July 15, 2010

HOSTED BY:

City of Morro Bay

MEETING PLACE:

Multi-Purpose Room
Community Center
1001 Kennedy Way
Morro Bay, CA 93442

CALL TO ORDER AND ROLL CALL

Mayor Peters called the meeting to order at 1:08 p.m. and asked that the record show Council members Betty Winholz and Rick Grantham present with Carla Borchard present via telephone remote. Smukler absent. President Enns stated all Cayucos Board members are present with the exception of Bud McHale

PUBLIC COMMENT PERIOD

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Mayor Peters opened the Public Comment period.

Richard Sadowski, Morro Bay resident spoke of his expertise on project management work on various projects, and expressed the need to put flow meters on all lift stations to get proper flow readings which is needed for a properly sized WWTP. Stated it should be a no-brainer to have reclamation in this project.

Robert Staller, Farmer agreed that reclamation is a necessity for the new WWTP.

Dorothy Cutter, expressed concern for obligating to a PM that may not be necessary especially if we end up going with PERC.

Hearing no further comments Mayor Peters closed public comment.

B. OLD BUSINESS

1. Consideration to Award Contract for Project Management Services for WWTP Upgrade

Project – Recommend award contract

Keogh explained the PM will be responsible for coordination and management of the design process, SRF funding process and the environmental review and permitting process. The PM contract is a time and materials contract not to exceed \$250,000. Keogh explained the RFP process and the 4 firms that responded. There were subsequent interviews with 2 of the firms: Dennis Delziet teamed with The Wallace Group and Harris & Associates. Keogh announced the recommendation to award the PM contract to Dennis Delziet.

Keogh then introduced Bill Little from Harris & Associates who proceeded to thank the Board and Council for their consideration, and announced his support of the staff recommendation.

Dennis Delziet introduced himself and presented a slideshow that gave an overview of himself and the Wallace Group and their combined expertise and experience. Delziet compared the Pismo Beach WWTP to the MB-CSD WWTP. Delziet emphasized the need to stay on schedule for the success of the project.

Board and Council proceeded to ask Delziet a variety of questions on his work on the Pismo Beach project related to budget, reclamation and Title 22 options for the future.

Winholtz and Keogh had extensive conversation regarding staff report and budget, Delziet estimate for PM services, payment of PM services based on capacity, involvement in parallel path of PERC CDR and MWH, out-clause in PM contract and what the obligations are.

Winholtz proceeded to give her opinion on the PM candidates that were interviewed, she then read a prepared statement expressing her displeasure with the handling of this process by staff, Board and Council. Winholz stated she was electing not participate any further in this PM process and left the meeting.

Grantham, Borchard and Peters proceeded to express their support of both staff's efforts and Delziet as the choice for PM and turned the discussion over to Cayucos for questions and comments.

Foster had questions on the \$250,000 budget and what happens when the \$250,000 is reached.

Lyon, Fones and Enns all expressed their support of the staff and their recommendation.

MORRO BAY MOTION: Peters, Grantham 2nd to award contract for Project Management Services for WWTP Upgrade to Dennis Delziet for an amount not to exceed \$250,000. On the following roll call vote:

AYES: Peters, Grantham, Borchard

NOES: None

ABSENT: Smukler, Winholtz

CAYUCOS MOTION: Fones, Lyon 2nd to award contract for Project Management Services for WWTP Upgrade to Dennis Delziet for an amount not to exceed \$250,000. VOTE: 4-0

Motion Passed

Next scheduled meeting August 12, 2010. Keogh announced possible conflict with meeting room, will advise on meeting date, location and time.

ADJOURNMENT

Peters adjourned the meeting at 2:07PM

Agenda No. _____

Date: September 9, 2010

STAFF REPORT

**MORRO BAY-CAYUCOS J.P.A.
WASTEWATER TREATMENT PLANT**

to: Honorable Mayor and City Council, City of Morro Bay
Honorable President and Board of Directors, Cayucos Sanitary District

from: Bruce Keogh, Wastewater Division Manager

date: July 1, 2010

subject: WWTP Operations Report through July, 2010

recommendation:

This Department recommends this report be received and filed.

fiscal impact:

None

summary:

Attached, find copies of the Morro Bay-Cayucos Wastewater Treatment Plant monthly reports, from June 2010 to July 2010 and the WWTP flow summary, through July 2010. This information updates the item, from the July 8, 2010 meeting.

The City of Morro Bay-Cayucos Wastewater Treatment Plant

MONTHLY OPERATIONS SUMMARY **JULY 2010**

Flow for the month of July averaged 1.278 Million Gallons per Day (MGD). Removal of suspended solids ranged from 88.7 % to 93.6 % for the month, with an average removal of 92.0 % for the month. BOD removal ranged from 81.1 % to 87.0 % for the month, with an average removal of 83.6 % for the month. Rainfall for the month was <0.01 inches. For the month of July, the plant was in compliance with the discharge and receiving-water limitations specified in the NPDES discharge permit. Other than normal operations and maintenance, the following items are noteworthy:

City and District staff continued to work with staff from MWH on the design process for the plant upgrade project. At the July 8 JPA meeting, the City and Cayucos Sanitary District (MBCSD) approved Amendment #2 to the Facility Master Plan (FMP).

Amendment #2 is available on the City's website. Amendment #2 documents the proposed changes to the FMP and FMP Amendment #1. The changes to the treatment process between Amendments #1 and #2 include; the addition of grit removal in pretreatment, consolidation of screenings, grit removal, and sludge dewatering in a common Residuals Facility, addition of a secondary pump station, deletion of sludge thickening and thickened sludge storage facilities, and designing the tertiary filter and chlorine contact basin to accommodate the future implementation of Title 22 Reclaimed Water capability.

Most importantly, Amendment #2 contains the revised project description that will allow the environmental review process to proceed. Staff will be proceeding with the goal of releasing the draft Environmental Impact Report (EIR) for the forty-five day comment period in August.

At the July 15 JPA meeting, the Council and Cayucos Sanitary District Board awarded a contract for Project Management of the WWTP upgrade project to Mr. Dennis Delzeit. Mr. Delzeit will assist City and District staff with managing and coordinating the numerous complex tasks required to successfully complete the upgrade of the WWTP.

On July 27 and 28, staff from Fugro performed geotechnical investigations of the proposed upgrade site. The work included Cone Penetration Testing (CPT) at 13 locations throughout the proposed upgrade site. Based on the results of the CPT, Fugro is scheduled to perform borings at various locations around the proposed upgrade site.

On July 8, City and District staff met with representatives of PERC Water for a kick off meeting and a plant tour. PERC is scheduled to deliver a Construction Design Report (CDR) to the City and District in early September. The CDR will outline a different project delivery method (Design Build) and discuss different treatment technologies. After receiving the CDR, the City and District will have an objective third party perform a Peer Review of the current project being designed by MWH and the proposed PERC project.

On July 1, staff noted a vibration from main influent pump #2 that had recently been re-built by Perry's Motors. Staff from Perry's Motors adjusted the impeller clearance and the situation was corrected. The pump is back on-line and performing as designed.

On July 16, staff installed new 3" piping for the air manifold supplying air to the diffusers in the grit aeration basin. The air manifolds were replaced after it was discovered that the 3" pipe - air manifold supplying air to the diffusers in the tank was cracked during a routine annual inspection of the grit aeration basin. Staff also replaced the grit aeration blower with a new blower while the repairs were being performed. The grit chamber was bypassed while the repairs were completed.

On July 12, Mr. David Gee of Cal OSHA Consultation Services toured the plant to conduct a full service safety consultation visit. This visit was a follow up to inspections he had conducted in April 2010 and September 2009. The visit consisted of a review of required programs related to the specific needs of the wastewater treatment plant and a hazard survey of the job site. As a result of that visit, Mr. Gee sent the plant a certificate of *"Golden Gate Partnership Recognition."* The certificate states, *"... Congratulations, your company has been recognized by the CAL/OSHA Consultation Service for its effort in implementing and maintaining an effective Injury and Illness Prevention Program during the CAL/OSHA Consultation Service visit on July 12, 2010.....During our consultative visit to your company, your managers and employees demonstrated a commitment to continuously improve the effectiveness of its workplace and health management system. This commitment to workplace safety and health is being commended by the CAL/OSHA Consultation Service"*

Plant staff shut down primary clarifier #2 at 1500 hours on July 26, so that the clarifier could be drained for inspection and maintenance. Staff began refilling the clarifier on July 27, at 1100 hours and the clarifier was flowing and operational at 1300 hours. While the clarifier was drained and off-line, plant staff inspected the tank and the components in the clarifier, no problems were noted.

On July 19, staff discovered that grit pump #1 was not operating in the auto mode. Staff contacted Harbor Electric and they installed a new hand/off/auto switch for the pump and the problem was corrected. They also tested and replaced the hand/off/auto switches for grit pump #2, the grit aeration blower, and the grit dewaterer.

On July 22, staff from Perry's Motors installed new motors on digester recirculation pumps #1 and #2. Plant staff fabricated and installed a new adjustable base plate for the motor on recirculation pump #1 while the pump was off line.

During the month of July, staff completed major repairs to the two grit bins used to collect grit prior to hauling grit to the landfill. Staff removed badly corroded sections of the bins and welded on replacement plates and gussets.

On July 22 staff from Brenntag installed a new fill line on the chemical storage tank used to store sodium hypochlorite.

On July 3, 5, 8, and 16, staff responded to a high chlorine residual alarm at the plant. Staff made minor adjustments to the dosing pumps and calibrated the chlorine residual analyzers. Due to the frequency of the high residual alarms, plant staff performed a detailed inspection of the pumps and control system used to regulate the dosing pumps and discovered a problem with flow paced sodium hypochlorite pump #3. It appears there was a problem with the dosing pump and electronic control module for the pump. Staff noted that the change in the alarm set point for the chlorine residual alarm was effective in prompting a quick response time.

The following reports were submitted to the appropriate agencies:

- The Offshore and Monitoring Program Quarterly Report Water Column Sampling April 2010 Survey.
- The Discharge Monitoring Forms (DMR) for June 2010

On July 27, the Morro Bay Fire Department and several other San Luis Obispo County Fire Agencies conducted confined space training exercises in the air relief structure for the outfall. During the entry, plant directed all flow into primary #2 (which had been drained the day before) to stop all flow into the air relief structure during the training exercise.

On July 23, staff began construction of a compost windrow, compost batch #33. The windrow was constructed using 40 yards of dried biosolids and 175 yards of green waste. The composting process is expected to take twelve weeks to complete.

Staff continued the composting process on compost batch #31 and #32. The composting process is expected to take twelve weeks to complete.

The National Estuary Program Volunteer Monitoring Program continued analysis of bacterial samples collected from throughout the watershed in the laboratory at the plant. The volunteers are using space provided in the lab by plant staff.

The permanent household hazardous waste collection facility (PHHWCF) at the plant continued to be well used by the public. Between twenty and fifty participants are using the facility each Saturday.

Bruce Keogh
Wastewater Division Manager
Lab/C/Bruce/Monthlys/July 2010

The City of Morro Bay-Cayucos Wastewater Treatment Plant

MONTHLY OPERATIONS SUMMARY

JUNE 2010

Flow for the month of June averaged 1.118 Million Gallons per Day (MGD). Removal of suspended solids ranged from 87.8 % to 93.5 % for the month, with an average removal of 90.5 % for the month. BOD removal ranged from 77.1 % to 84.6 % for the month, with an average removal of 82.2 % for the month. Rainfall for the month was <0.01 inches. For the month of June, the plant was in compliance with the discharge and receiving-water limitations specified in the NPDES discharge permit. Other than normal operations and maintenance, the following items are noteworthy:

City and District staff continued to work with MWH on the design process for the plant upgrade project. MWH is currently working on the project report phase of the design process. During June, City and District staff assisted MWH by providing relevant data and information, assisting with the review and development of the draft Amendment #2 to the Facility Master Plan and continuation of an influent sampling program.

At the June 16, the City and District voted to receive a Construction Design Report (CDR) from PERC Water. The CDR will contain design criteria and project costs for alternative treatment technologies and alternative project delivery methods. The CDR is scheduled to be completed in September.

City and District staff continued to work with staff at Environmental Science Associates (ESA) on the environmental review process for the WWTP upgrade project. ESA is waiting for a revised project description from the City and District before finalizing the draft EIR for public review and comment.

On June 30, staff placed main influent pump #2 back on-line. The pump had been removed on June 1, for repairs and maintenance. The repairs included the epoxy coating of the volute and impeller to increase pumping efficiency; rebuilding of the pump that included machining and sleeving of the bearing housing, and the installation of new bearings and seals; and the rewinding of the pump motor. The pump was placed back in service on June 30. It appears that the repairs improved the pumping efficiency and has resulted in a significant reduction in pump run times for a twenty-four hour period.

On June 24, staff completed the task of replacing the 3" digester gas feed line from the drain vault outside the maintenance shop to the boilers. Staff had noted a problem with a lack of gas flow from the digesters to the boilers located in the maintenance shop on June 12. They attempted to clean the existing gas feed line but were unsuccessful. To correct the situation, staff had a new 3" gas feed line fabricated and they installed the new gas feed line and rerouted the pipe into the boiler room. The new feed line should be easier to maintain in the future. The boilers are operating as designed with the new gas feed line installed.

On June 9, staff drained the grit chamber for inspection and maintenance. They discovered that the 3" pipe - air manifold supplying air to the diffusers in the tank was

cracked and filled with grit. They removed the manifolds in both the east and west chambers and are having Santa Maria Tool fabricate new manifolds. The new piping will be installed when the manifolds are delivered to the plant. The grit chamber is being bypassed during the repair period.

During the month of June, staff performed major repairs to the two grit bins used to collect grit prior to hauling grit to the landfill. Staff removed badly corroded sections of the bins and welded on replacement plates and gussets.

Per a request from staff Mr. David Gee of Cal OSHA Consultation Services, on June 9, staff emailed a copy of the plant's revised confined space entry program for the plant. The request was based on a full service safety consultation visit conducted on April 19. Mr. Gee will also be assisting staff with minor revisions to other written safety programs. He is scheduled to do a follow up inspection on July 12.

On June 21, laboratory staff received notice that they had acceptable results for Discharge Monitoring Report-Quality Assurance (DMR-QA) Study 30. DMR-QA 30 is sponsored annually by the United States Environmental Protection Agency.

On June 20, at 2115 hours, staff responded to a high chlorine residual alarm at the plant. Staff made minor adjustments to the dosing pumps and calibrated the chlorine residual analyzers. They performed a detailed inspection and no other problems were noted. Staff noted that the change in the alarm set point for the chlorine residual alarm was effective in prompting a quick response time.

On June 2, Mr. Bruce Keogh met with Mr. Bill Worrell of the Integrated Waste Management Authority (IWMA) and Mr. Tim Olivas, the Morro Bay Police Chief, to discuss the possibility of implementing a pharmaceutical take back program in Morro Bay. The program would allow the public to drop off unused pharmaceuticals in a secure drop box located at the Morro Bay Police Station. Pharmaceuticals collected at the police station would be disposed of in an appropriate manner. The secure drop box would be provided by the IWMA.

On June 29, plant staff submitted the May monthly monitoring data electronically to RWQCB using the CIWQS submittal process. RWQCB has requested that all monitoring data be submitted electronically, eliminating paper reports. All future reports will be submitted using the CIWQS reporting system.

On June 3, staff from Basic Chemical Solutions (BCS) inspected the sodium bisulfite chemical storage tank. Based on the results of the inspection, staff from BCS is making arrangements with plant staff to install a new chemical storage tank.

On June 2, plant staff installed a new dispensing nozzle on the fueling station at the convault used to store diesel for the emergency auxiliary generator and to fuel the front end loader.

On June 20 and 24, the Morro Bay Fire Department conducted confined space training exercises in an electrical pull vault at the plant.

On June 23, staff began construction of a compost windrow, compost batch #32. The windrow was constructed using 40 yards of dried biosolids and 175 yards of green waste. The composting process is expected to take twelve weeks to complete.

Staff continued the composting process on compost batch 30 and 31. The composting process is expected to take twelve weeks to complete.

The National Estuary Program Volunteer Monitoring Program continued analysis of bacterial samples collected from throughout the watershed in the laboratory at the plant. The volunteers are using space provided in the lab by plant staff.

The permanent household hazardous waste collection facility (PHHWCF) at the plant continued to be well used by the public. Between twenty and fifty participants are using the facility each Saturday.

Bruce Keogh
Wastewater Division Manager
Lab/C/Bruce/Monthlys/June 2010

Agenda No. _____

Date: September 9, 2010

STAFF REPORT

**MORRO BAY-CAYUCOS J.P.A.
WASTEWATER TREATMENT PLANT**

to: Honorable Mayor and City Council, City of Morro Bay
Honorable President and Board of Directors, Cayucos Sanitary District

from: Bruce Keogh, Wastewater Division Manager

date: September 2, 2010

subject: Status Report on the Proposal from PERC Water

recommendation:

This Department recommends this report be received and filed.

fiscal impact:

None

summary:

At the June 16, JPA meeting the City and District voted to receive a Construction Design Report (CDR) from PERC Water. The CDR will contain design criteria and project costs for alternative treatment technologies and alternative project delivery methods. The CDR is scheduled to be presented to the City and District in September. Following receipt of the CDR, the City and District will have Kitchell CEM perform a Peer Review of the CDR and the adopted upgrade project utilizing oxidation ditch and tertiary filtration.

Discussion:

CDR from PERC

On July 8, City and District staff met with representatives of PERC Water for a kick off meeting and a tour of the MBCSD plant. City and District staff are scheduled to meet with PERC staff for a presentation of the CDR on September 15. The CDR will outline different project delivery method (Design Build, Design Build Operate Finance) and discuss different treatment technologies, including a membrane bio reactor (MBR) and a sequencing batch reactor (SBR). After receiving the CDR, the City and District will have Kitchell CEM perform a Peer Review of the current project being designed by MWH and the proposed PERC project(s) outlined in the CDR.

City and District staff toured the Santa Paula (an MBR facility) and Mountain House (an SBR facility) treatment facilities on August 3 and 13.

Peer Review

At the June 16, JPA meeting the City and District voted to award a contract for Peer Review Services to Kitchell CEM for an amount not to exceed \$25,000. The contract calls for Kitchell to perform a Peer Review of the adopted upgrade project utilizing an oxidation ditch with tertiary filtration being designed by MWH with the proposed project(s) outlined in the forthcoming CDR from PERC Water.

City staff has been in contact with staff from Kitchell requesting a proposal from Kitchell for the proposed services. Staff has requested that Kitchell develop a preliminary scope of work, a fee for the services including task breakdowns and hourly rates; a schedule for the delivery of the services; an organization chart of the staff that will be working on the evaluation; the resumes of the staff that will be working on the project; identification of similar evaluations that Kitchell's project team has performed (Specifically identifying projects in which you have done comparisons between the oxidation ditch treatment process and an MBR/SBR treatment processes); and a list of client references that Kitchell has done on similar evaluations.

City and District staff will refine and finalize the scope of work with Kitchell after they have received a copy of the CDR from PERC. Kitchell has indicated that they can complete the review process in a four to six week time frame once the scope has been finalized.

Conclusion:

Staff will continue to work with Kitchell to ensure that we are ready to proceed with the Peer Review process, once a CDR has been received from PERC Water. Staff will provide updates to the Council and Board as the Peer Review process proceeds.

STAFF REPORT

**MORRO BAY-CAYUCOS J.P.A.
WASTEWATER TREATMENT PLANT**

To: Honorable Mayor and City Council, City of Morro Bay
Honorable President and Board of Directors, Cayucos Sanitary District

From: Dennis Delzeit, P.E., Project Manager

Date: August 27, 2010

Subject:

Status Report on Upgrade Project as of August 27, 2010.

Recommendation:

By motion, receive this report and provide staff with comments and direction as deemed appropriate by the City Council and the District Board.

Fiscal Impact:

- Each of the consultants on the project are within their current contract budgets. However, MWH has expended extra effort for unanticipated new work tasks associated with: additional analysis of flows and loadings, different combinations of tertiary filters and chlorine contact basin options; an alternative project evaluation (MBR); additional meetings and additional geotechnical research (Fugro). Specific details are not currently available. However, a contract amendment is being prepared for the JPA's consideration at the October 14th meeting.
- As the JPA was previously informed, currently the MBCSD is behind schedule on the environmental review and permitting portion of Compliance Schedule contained in the NPDES permit. MBCSD was supposed to have completed and circulated a draft CEQA document by February 27, 2009. Currently, the public release of this document is estimated to occur September 1, 2010. The failure to complete this project milestone carries a potential penalty of \$100 a day. Total fine exposure to date, is approximately \$51,800. However, the design of the project began ahead of the permit deadline of September 30, 2010. Staff is hopeful that with the completion of the EIR process, and the early start on the design phase, that the overall project schedule can be met. If the end dates are met, the Settlement Agreement states that any fines accrued on intermediate milestones would be waived.

Discussion:Staff Visits to PERC Facilities

City staff members and District staff and AECOM representatives visited the PERC facilities in Mountain House (Tracy) and Santa Paula and received guided tours.

Major Milestone Schedule

During the next thirty to sixty days the major activities will focus on the release of the draft EIR; receiving public comments; processing the CUP and the California Coastal Development Permit. During this time frame the MBCSD is anticipating that the PERC proposal will be received on September 8th and an independent analysis will be conducted by Kitchell. The time frame for the Kitchell analysis and presentation are unknown at this time. An update will be provided as this information becomes available.

- Draft EIR is released for public review: September 13, 2010
- Receive the PERC CDR (approximate date) September 15, 2010
- Presentation of Draft EIR at Planning Commission: October 4, 2010
- Presentation of Draft EIR at a JPA meeting: October 15, 2010
- Submittal of Kitchell analysis of the PERC CDR Undetermined
- Deadline for draft EIR public comments: October 28, 2010
- Conceptual review of the Conditional Use Permit, Coastal Permit and Draft EIR, **Planning Commission Meeting** **December 6, 2010**
- **Council** considers certifying the EIR and approval of the Conditional Use Permit and Coastal Permit **January 10, 2011**
- 90% Completion of the Design October 5, 2011
- Advertise for Construction Bids November 17, 2011
- Receive Construction Bids January 11, 2012
- Award Construction Contract, after receiving State Revolving Loan Approval March 1, 2012
- Completion of Construction January 31, 2014
- Achieve full compliance with federal secondary treatment Requirements March 31, 2014

- Design:
 - MWH presented preliminary site plans, architectural plans and related preliminary design documents to the Technical Committee on August 19th.
 - Geotechnical borings were taken at the site by Fugro Inc.
 - The property boundary survey has been authorized to be done by EDA. After that, the site survey and aerial survey will occur.
 - Contract Fee Status:
 - Contract Amount: \$2,700,000
 - Amount Billed to Date: \$ 215,071
 - Amount Remaining: \$2,484,929

- Hazardous Materials Inspection:
 - A hazardous materials inspection (lead and asbestos) was made and the report is anticipated to be received in mid September.

- Environmental:
 - ESA is awaiting comments from screen check draft EIR.
 - Comments will be incorporated into the public DEIR.
 - ESA will give a presentation of the DEIR, receive written and oral comments, and then prepare responses to comments.
 - Contract Fee Status:
 - Contract Amount: \$333,431
 - Amount Billed to Date: \$286,237

- Amount Remaining: \$ 47,194
- State Revolving Fund Loan:
 - Credit Review Check List: The Urban Water Management Plan must be updated. This will occur this year.
 - JPA Agreement: The City and the District are in the process of updating the JPA Agreement. The loan application will be a single application submitted by the JPA.
- Project Manager:
 - Participated in the project team meeting;
 - Prepared a detailed graphical schedule, for staff and consultant usage;
 - Prepared a milestone schedule, less detailed for public usage;
 - Prepared a draft web site revision for the project;
 - Visited the treatment plant site;
 - Participated in the JPA Technical Committee Meeting;
 - Participated in a SRF meeting with City and District staff;
 - Prepared the CUP and CDP Application and submitted it to City Staff;
 - Communicated/coordinated with MWH and ESA;
 - Reviewed MWH's monthly invoice;
 - Responded to a public inquiry;
 - Contract Fee Status:
 - Contract Amount: \$250,000
 - Amount Billed to Date: \$ 0
 - Amount Remaining: \$250,000

Background and Discussion:

The project manager will continue to provide updates on the upgrade project at the next JPA meeting or as needed.

STAFF REPORT

MORRO BAY-CAYUCOS J.P.A

WASTEWATER TREATMENT PLANT

To: Honorable Mayor and City Council, City of Morro Bay
Honorable President and Board of Directors, Cayucos Sanitary District

From: Bill Callahan, District Manager: Cayucos Sanitary District
Bruce Keogh, Wastewater Division Manager: City of Morro Bay

Date: August 27, 2010

Subject: Discussion and Confirmation of the Role of the WWTP Project Manager

Recommendation:

District and City staffs recommend the Board and Council discuss and confirm the role of the WWTP Project Manager, and provide direction to staff.

Fiscal Impact:

The fiscal impact will depend on the level of effort assigned to the Project Manager above and beyond tasks originally identified in the Project Management scope of work.

Background:

The Council and District Board awarded a contract for Project Management Services for the WWTP upgrade project at the July 15 JPA meeting. Mr. Schultz, the legal counsel for the City, placed the issue on the August 9 Council Agenda because of a potential issue as to whether there was a proper quorum at the meeting to conduct City business. In order to clear up any confusion on whether a quorum existed at the July 15, 2010 JPA meeting, Mr. Schultz recommended the City Council reaffirm the action taken at Joint Powers Agreement meeting on July 15, 2010 and reapprove the award of a contract to Dennis Delzeit for Project Management (PM) Services for the Upgrade of the Morro Bay-Cayucos Wastewater Treatment Plant. During discussion of this item at the August 9 Council meeting, there were comments from Council members that Mr. Delzeit should not participate in the on-going analysis of the proposal by PERC Water.

Discussion:

Based on the discussion of the role of the Project Manager as it pertains to the PERC Water alternative project analysis, City and District staffs met on August 27th to discuss the role of the current project manager. City and District staffs discussed the City Councils preference for Mr.

Delzeit to not participate in any activity relating to the PERC analysis. Based on this stated preference, and to get clarity and direction on this matter, District staff requested the role of the PM be included on the September JPA Agenda.

Staff would like the Council and Board to consider allowing Dennis Delzeit to participate in the preparation of a scope of work and review of the MWH/PERC analysis by Kitchell for the following reasons:

When the Council and District Board agreed to accept the Construction Design Report (CDR) from PERC, they identified the approach to the WWTP upgrade project as “moving down parallel tracks” (Current MWH Project and PERC Proposed Project). It appears that both of these tracks are potentially viable project options that would benefit from the assistance and experience of the current Project Manager. It is staff’s opinion that the upcoming “parallel track” analysis is one of the key tasks in the upgrade process that will require the type of coordinated effort that a dedicated PM can facilitate.

The “Scope of Potential Project Management Services” identified in the RFP summarizes many tasks that are related to this “parallel track”:

- 1) Advise and Represent the City and District in the replacement of their treatment plant.
- 2) Provide Project Management
- 3) Coordinate Project Activities and Consultants
- 4) Assist in and Coordinate Activities Associated with the Design Process
- 5) Assist in hiring consultants for Value Engineering, Construction Management, and other services as required, may include the development and evaluation of RFP’s and RFQ’s.

In addition, it was noted in the staff report for the award of contract that the PM scope of services is a broad scope of services that will evolve and potentially change as the project progresses.

The assistance and experience of Mr. Delzeit will help to expedite the Kitchell analysis by assisting in the development of the scope of work, which will help to expedite a final work product for Council and Board review. As everyone is aware, the upgrade project is on a tight time schedule and time is of the essence. Running the upgrade project on dual tracks only enhances the need to complete the analyses in a timely manner. Coordination of project activities and keeping the project on schedule are a big component of the PM’s scope of work.

City and District staff is aware that the Council and District Board are concerned about the overall budget for the PM contract. City and District staff will attempt to minimize the PM’s level of effort in the analysis of the CDR, but City and District staff believes that Mr. Delzeit’s wastewater engineering experience will enhance and bring value to the development of the scoping process with Kitchell. If there are specific concerns held by the Council and Board on Mr. Delzeit’s involvement in the parallel PERC track, it would be helpful to discuss them during the September JPA meeting, to help give perspective to these concerns and build a better understanding of the parameters for Mr. Delzeit’s scope. As noted in the staff report for the award of contract, Mr. Delzeit will be providing monthly reports documenting expenses to date summarized by tasks, and Mr. Delzeit will bring forward recommendations on modifications to the PM budget as the project

progresses. These monthly updates will allow the Council and Board to monitor the level of effort on the PERC analysis.

Conclusion:

City and District staff are recommending that the role of the Project Manager include assistance with the analysis of the PERC CDR. City and District staffs believe Mr. Delzeit will help to expedite the “dual track” the City and District are currently on by assisting in the development of a scope of work for the MWH/PERC analysis, bring value to the project with his years of wastewater engineering experience, and will help to “free up” staff to focus on many of the other project related and day to day tasks at hand.

STAFF REPORT

**MORRO BAY-CAYUCOS J.P.A.
WASTEWATER TREATMENT PLANT**

To: Honorable Mayor and City Council, City of Morro Bay
Honorable President and Board of Directors, Cayucos Sanitary District

From: Dennis Delzeit, P.E., Project Manager

Date: September 9, 2010

Subject:

Consideration and Discussion of Conceptual Site Plan for the WWTP Upgrade Project

Recommendation:

By motion, provide direction to staff as to the preferred site plan configuration.

Fiscal Impact:

Each of the site plan configurations are within the previously estimated budget in the Facilities Master Plan. A decision on the preferred site plan is fiscally neutral.

Background and Discussion:

MWH prepared two conceptual site plans. They are identified as "Site Plan A (Amendment No. 2)" and Site Plan B (Alternative). Exhibits of these plans are attached to this staff report and MWH will provide a presentation to the JPA at the meeting.

Considerations of the two site plans include:

- Visitor Focus
- Household hazardous waste facility
- Plant deliveries and hauling
- Atascadero Road Traffic

MWH presented these plans to the Joint Technical Advisory Committee at the meeting on August 19, 2010. Comments from the committee seemed to favor the looped configuration of Site Plan B for ease of mobility and condensed footprint.

Attachment:

Conceptual site plan exhibits.

City of Morro Bay
and
Cayucos Sanitary District

JPA Meeting
September 9, 2010

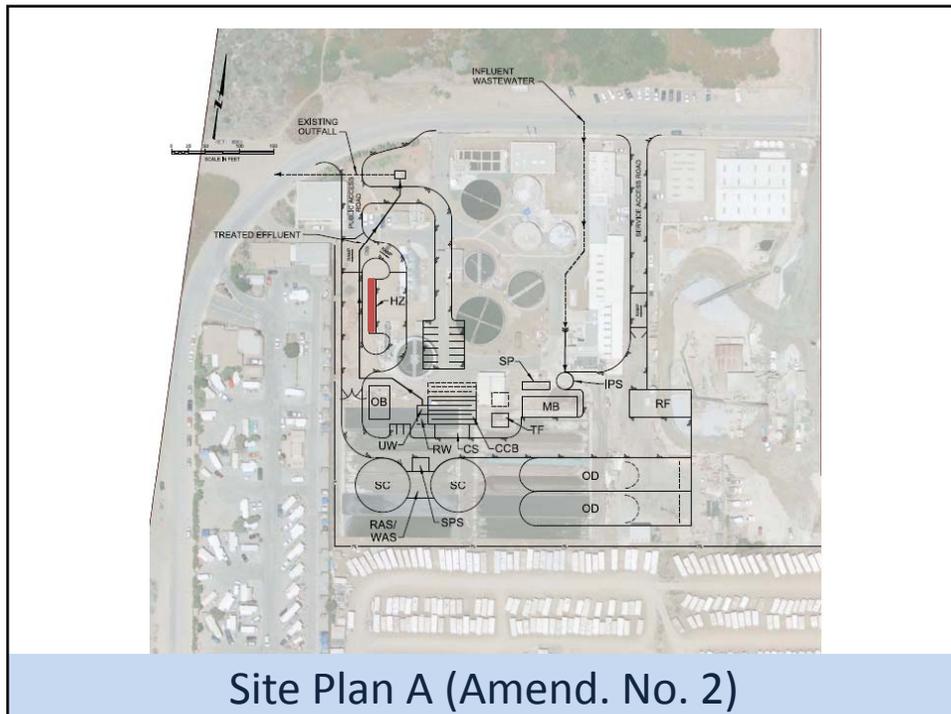
Site Plan Options

Background

- TAC Meeting on August 19, 2010
- Guidance on site plan configuration

Site Plan Considerations

- Visitor focus
- Household hazardous waste facility
- Plant deliveries and hauling
- Atascadero Road traffic



Site Plan A (Amend. No. 2)



STAFF REPORT

MORRO BAY-CAYUCOS J.P.A. WASTEWATER TREATMENT PLANT

To: Honorable Mayor and City Council, City of Morro Bay
Honorable President and Board of Directors, Cayucos Sanitary District

From: Dennis Delzeit, P.E., Project Manager

Date: September 9, 2010

Subject:

Consideration and Discussion of Architectural Treatment for the WWTP Upgrade Project.

Recommendation:

By motion, provide direction to staff and consultants as to the preferred architectural style for the project.

Fiscal Impact:

Each of the architectural styles will have cost impacts and the architect will explain the relative costs as he presents the options.

Background and Discussion:

MWH's sub consultant, the RRM Design Group, have provided photographic examples of various building forms and case studies. Exhibits are attached to this staff report and the architect will provide a presentation to the JPA at the meeting.

Architectural considerations include the following:

- Cost
- The marine environment
- Compatibility with adjacent land uses
- Functional requirements of the treatment process
- M-1 zoning restrictions

MWH and the RRM Design Group discussed the design considerations and presented photographic architectural examples to the Joint Technical Advisory Committee at the meeting on August 19, 2010. The Committee generally accepted the design proposals and there seemed to be a general preference that the desirable architectural style and landscaping features should blend with the beach surroundings (sand dune motif).

Attachment:

Architectural Exhibits

City of Morro Bay
and
Cayucos Sanitary District

JPA Meeting
September 9, 2010

Architectural Treatment Options

Background

- TAC Meeting on August 19, 2010
- Direction for architectural options

Architectural Challenges

- Visual compatibility with adjacent land uses
 - High school
 - Concrete batch plant
 - Trailer storage
 - Camp ground
 - Beach access
 - Household hazardous waste facility
 - Future?

Architectural Challenges (Cont.)

- Views from public space
 - Highway 1
 - Atascadero Road
 - Public entrance
- Zoning Restrictions
 - 30 foot height limit (up to 45 ft)
- Compatibility with other community facilities
 - Corporation Yard
 - City Hall
 - Community Center
 - Fire Station

Architectural Challenges (Cont.)

- Marine Environment limits material selection
 - Cement based products, nothing metallic
 - Durable and low maintenance
- Cost
- EIR
- Public perception
- Functional requirements of treatment plant
 - Working facility / O&M activities
 - Truck traffic

Architectural Styles – Building Forms



“Contemporary” Building Forms

Successful building design usually begins with selecting Building Forms that are compatible with surroundings of proposed building site



“Traditional” Building Forms



“Industrial” building forms

Arch. Styles - Santa Paula case study



View from Public Street

Arch. Styles - Santa Paula case study



Views from
Rear of
Facility



Functional requirements for treatment plant design usually includes some very industrial looking details that require strategic placement behind buildings or screen walls

Arch. Styles - Santa Paula case study

Public perception of a low-cost building design can be greatly enhanced by introducing landscape features to integrate site and building



Trellis and accent wall



Water feature

Architectural Styles – Cost Considerations

At lower end of cost scale; (base cost psf)

- Very simple building forms
- Cost effective and durable materials
- Very limited amount of wall articulation and projecting details



Architectural Styles – Cost Considerations

At the middle of cost scale; (base cost +10%)

- Simple building forms
- Cost effective and durable materials
- Mix of colors and surface textures,



Architectural Styles – Cost Considerations

At upper end of cost scale; (base cost + 20%)

- Complex building forms
- Cost effective and durable materials
- Mix of Colors and textures, plus wall projections for enhanced entries and window shading



Architectural Styles – Options for Consideration



Santa Paula WWTP



Del Mar WWTP

Architectural Styles – Options for Consideration



Fire station



Office building

Architectural Styles – Options for Consideration



Fire station



Fire station



Training Center

OPS building design study with color and site enhancements



Staff entry



Public entry





STAFF REPORT

MORRO BAY-CAYUCOS J.P.A. WASTEWATER TREATMENT PLANT

To: Honorable Mayor and City Council, City of Morro Bay
Honorable President and Board of Directors, Cayucos Sanitary District

From: Dennis Delzeit, P.E., Project Manager

Date: September 9, 2010

Subject: Presentation of Preliminary Project Cost Estimates for the WWTP Upgrade Project.

Recommendation:

As an informational item, no action is required.

Fiscal Impact:

The fiscal impact as the result of the cost estimate is yet to be determined.

Background and Discussion:

A cost estimate is required in the contract work scope to be provided at the 30% design stage, which is anticipated to occur in several months. However, JPA members requested, and MWH agreed, to provide this information at the September 9th meeting of the JPA.

The preparation of a cost estimate is a time consuming process that involves calculations of construction quantities and detailed review of current cost data. As of the deadline for this staff report, the preparation of the cost estimate is in process. Completion is expected to occur shortly before the September 9th meeting. Efforts will be made to provide the JPA with the MWH cost estimate prior to the meeting.

MWH will present the current estimated project cost based on the conceptual design presented in Facility Master Plan - Amendment No. 2 recently approved by MBCSD. The presentation of the current estimated project cost will include a comparison to the equivalent project costs prepared in the previous Facility Master Plan – Amendment No. 1.