



CITY OF MORRO BAY  
**WATER RECLAMATION  
FACILITY PROJECT**

***REQUEST FOR PROPOSAL – DESIGN BUILD SERVICES FOR  
WATER RECLAMATION FACILITY (WRF) ONSITE IMPROVEMENTS***

***ADDENDUM NO. 4***

April 6, 2018

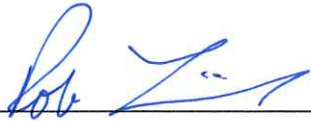
Proposers are hereby informed the Request for Proposals issued January 24, 2018, by the City of Morro Bay (City) for the above project has been amended by the following information. A signed copy of the page acknowledging receipt of this addendum shall be included with Proposals.

1. **Design Flows:** Item 3 of Addendum 2 included information from recent collection system modeling. The peak dry weather flow and peak wet weather flow provided in Item 3 of Addendum #2 are both one hour peak flows. In addition to those flows, this addendum item provides average annual flows (AAF) and maximum month flows (MMF). The AAF and MMF are estimated based on review of 2010 – 2014 WWTP influent flow data and calculated peaking factors relative to the average dry weather flow (ADWF) of 0.97 (ADF/ADWF) and 1.15 (MMF/ADWF). Assume the following existing and future influent flows:

Estimated Morro Bay WRF Influent Wastewater Flows (MGD)				
Flow Condition	Existing	Existing with Collection System Improvements	Future (2040)	Future (2040) with Collection System Improvements
Average Annual Flow (AAF)	0.87	0.87	0.97	0.97
Maximum Month Flow (MMF)	1.04	1.04	1.15	1.15
Average Dry Weather Flow (ADWF)	0.90	0.90	1.00	1.00
Peak Dry Weather Flow (PDWF)	2.08	2.08	2.74	2.74
Peak Wet Weather Flow (PWWF)	5.85	7.90	8.14	8.14

2. **Modeled Hydrographs:** Hydrographs were developed from the City’s calibrated sewer collection system hydraulic model, and consist of the flow entering the WWTP from the City of Morro Bay only (i.e., excluding Cayucos flows). Three different scenarios are included. For each scenario, a seven day hydrograph is provided for the Average Dry Weather Flow (ADWF), Peak Dry Weather Flow (PDWF), and Peak Wet Weather Flow (PWWF) condition. Each scenario is described below. The hydrographs will be made available to potential proposers in Excel spreadsheet format through the City’s Procore system.

- **Existing Condition:** These hydrographs represent the flow from Morro Bay that is conveyed to the WWTP without any improvements to the collection system. In the case of the PWWF condition, peak flows in certain areas of the collection system are “held back” in the collection system due to undersized sewer mains.
- **Existing Condition with Improvements:** These hydrographs represent the flow from Morro Bay that would be conveyed to the WWTP if improvement projects were constructed to mitigate capacity deficiencies in the collection. In the case of the ADWF and PDWF condition, the hydrographs are identical to the “Existing Condition” scenario. However, for the PWWF condition, peak flows that are currently “held back” in the collected system can now be conveyed to the WWTP, resulting in a higher PWWF that will reach the WWTP.
- **2040 Condition:** These hydrographs represent the flows under future (year 2040) flow conditions. This scenario assumes that the improvement projects included as part of the “Existing Condition with Improvements” have been implemented, and that there are no capacity restrictions in the collection system under year 2040 conditions.

  
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 Rob Livick, PE, Public Works Director/City Engineer

6 April 2018  
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 Date

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 Acknowledgement of Addendum No. 4

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 Date