

## Tertiary Treatment and Disinfection Facility Project Change Order #10 Summary

### **Project Description**

The Department of Public Utilities (DPU), Wastewater Management Division awarded the \$28,674,500 construction contract to WM Lyles Company for the construction of the Tertiary Treatment and Disinfection Facility located at the RWRP on Jensen and Cornella. The Award was on 6/26/14 but the NTP was delayed until 12/15/14 because the SRF Loan approval was delayed. The purpose of the project is to construct 5 mgd of Tertiary Treatment capacity. This new facility will produce Title 22 recycled water for use in all non-potable applications. The basic system consists of a fine filter, aeration basins, a membrane bio reactor, UV disinfection and a storage tank. The original duration of this project was 580 calendar days putting the completion at 7/17/16. To this date there have been 9 approved change orders. The 10<sup>th</sup> change order is for \$80,454.00 and an additional 14 weather delay days, which will bring the change orders to 1,179,563.00 and 14 days. This change order will increase the project total to \$29,854,063 and 594 days. The change orders will total 4.11% of the original contract which do not require council approval.

### **Change Order #10 Item Descriptions**

#### **Item #51 – Pre UV Sampler installation:**

This change adds \$41,161 and no additional contract time.

This change provides compensation to the contractor for the modifications necessary to install a composite sampler prior to the UV systems. Staff determined it was advantageous for more efficiently running the Tertiary Facility if there were an additional sampler installed. The work included installing the sampler and associated electrical and controls wire and conduit. It was agreed this work would be performed on a Time and Material (T&M) basis. T&M sheets were submitted by the contractor then reviewed and approved by the CM. The change consisted of the addition and installation of a pre-sampler at the UV disinfection facility.

#### **Item #54 – Baffle support modifications:**

This change adds \$4,406 and no additional contract time.

This change provides compensation to the contractor for the modifications necessary to prevent an influent gate from hitting the baffle supports in the aeration basin. During construction it was identified the full operation of the influent gate would be reduced because of baffle support interference. The contractor submitted a cost proposal which was reviewed and approved by the CM and accepted by the City.

#### **Item #59 – Addition of a Uninterruptible Power Supply at the Fine Screen Controls:**

This change adds \$16,883 and no additional contract time.

This change provides compensation to the contractor for the addition of an Uninterruptible Power Source (UPS) to the fine screen control cabinet. During project startup there was a PG&E caused a short power failure that caused the fine screens to shut down. Staff determined the addition of a UPS to the control cabinet would prevent these resulting fine screen system shutdowns. It was agreed this work would be performed on a T&M basis. T&M sheets were submitted by the contractor then reviewed and approved by the CM.

**Item #60 – Repositioning motor actuators the the UV facility:**

This change adds \$1,920 and no additional contract time.

This change provides compensation to the contractor to reposition motor actuators for the second time. The actuators were originally oriented per consultation with City Electrical staff. After installation Operations staff determined the actuators must be repositions to allow safe operation. It was agreed this work would be performed on a T&M basis. T&M sheets were submitted by the contractor then reviewed and approved by the CM.

**Item #62 – Additional Control Conduits at 19-PMP-301 and 302:**

This change adds \$24,084 and no additional contract time.

This change provides compensation to the contractor to install two additional conduits for two pumps. During pump startup and testing these pumps experience control issues that were determined to have been caused by the installation of control wiring and power wiring in the same conduit. This change adds a separate conduit to separate the wiring. It was agreed this work would be performed on a T&M basis. T&M sheets were submitted by the contractor then reviewed and approved by the CM.

**Item #72 – Addition of Weather delays:**

This change adds \$0 and 14 additional contract days.

This change formally adds the additional 14 weather delay days experience by the contractor during the execution of the construction contract.

**Item #61 – Deletion of Recycled Water Distribution Pump Pad:**

This change deletes \$8,000 and with no contract time impact.

This change removed compensation for the installation of the concrete pad surrounding the recycled water distribution pumps. It was requested by the contractor working on a separate contract responsible for the installation of the pumps that the pad not be installed. The contractor submitted a cost proposal for all necessary work which was reviewed and accepted.

**TOTALS FOR CONTRACT CHANGE ORDER NO.10**

**DOLLAR INCREASE - \$180,454.00**

**TIME INCREASE – 14 days**