

**ADDENDUM NO. 4
FOR
CITY OF GREENFIELD
WASTEWATER TREATMENT PLANT SURFACE AERATOR ADDITION**

DATE: March 22, 2016

FROM: Doug Pike, PE, City Engineer
City of Greenfield
599 El Camino Real
Greenfield, CA 93927
Tel: (805) 331-3553

TO: Prospective Bidders

This addendum forms a part of the Contract Documents and modifies the original Procurement Documents dated February 2016, as noted herein. Each bidder shall acknowledge receipt of this Addendum by completing the acknowledgment at the end of this Addendum, and by confirming receipt of this addendum on the contract Bid Form. Failure to acknowledge receipt of the four addenda on the Bid Proposal may subject Bidder to disqualification.

The following changes or clarifications have been made to the Bid Documents:

CHANGES TO PRIOR ADDENDA:

1. None.

CHANGES TO PROCUREMENT REQUIREMENTS:

2. Bid Schedule. Bid Item 18 shall be entitled "Sludge Removal" and quantity adjusted from 250 dry tons (DT) to 1,000 dry tons (DT). (Note: This quantity change was based on some preliminary testing that indicated the sludge quantity can be assumed to be approximately 1" depth, on average, across the three ponds, and some dirt may be mixed into the sludge at time of removal).
3. Bid Schedule: Bid Item 17 Pond Liner. The Contractor Shall, at the time of bid, submit a schedule of alternate costs for Bid Item 17 as follows:

Bid Item	Bid Item Description	Schedule for alternate award amounts	Pond Liner (SF)	Unit Price	Total Bid Item Cost	Contractors Bid Total with this Bid Item
17A.	Base Bid Option	Pond Liner - Ponds 1, 2 & 3 (Per base Bid-restated)	308,000			
17B.	Alternate 1 Option	Pond Liner - Cost for lining Ponds 1 & 2 Only				
17C.	Alternate 2 Option	Pond Liner - Cost for lining Pond 1 Only				

Although the Base bid written in numbers and words at the bottom of the bid schedule represents 17A, the Contract award will be based upon the Total Base Bid With Bid Item 17A OR 17B OR 17C, as calculated in the table above.

CHANGES TO SPECIFICATIONS:

4. Contractor to verify DIR registration and current license for each subcontractor and complete form attached and submit with Bid Proposal

5. Section 01 20 00, Price and Payment Procedures. Change Existing Sub-item 19, to Sub-Item 20. Add Sub-item 19 as follows: Survey of bottom elevations of Ponds 1, 2 and 3, after sludge drying/removal, but prior to removal of dirt, for the purposes of estimating quantities of soils to be removed."
6. Section 01 20 00, Price and Payment Procedures. Replace Bid Item No. 18 - Sludge Dewatering, Hauling and Disposal, with the following:

Bid Item No. 18 – Sludge Removal

- A. Units: Dry Ton (DT).
- B. Measurement:
 1. Measurement shall be the actual weight, expressed in dry tons (imperial units), of sludge removed and disposed of, based on calculation of dry tons based on moisture content analyses conducted on each truck load of sludge hauled. Calculations subject to approval of the Engineer.
- C. Payment includes full compensation for all furnishing all labor, materials, tools, equipment, and incidentals, and for doing all work required to provide sludge removal in accordance with the contract documents.
 - a. No payment for sludge removal will be made until all the listed items have been completed to the satisfaction of the Owner.
 - b. Value for this pay item on first progress payment shall not exceed 25% of bid item value, based on a calculation of the bid schedule quantity times the bid unit price for this item.
 - c. Intermediate partial payments based on Engineer's determination, and total value approved for payment shall not exceed actual percent complete of Contract Work.
 - d. Final pay request shall include the remaining value for this pay item, based on approved calculations of dry tons of biosolids removed, in accordance with truck haul tickets and corresponding laboratory moisture content analyses.
 - i. Scope of bid item: sludge removal includes, but is not limited to the following:
 1. Removing sludge from Ponds 1, 2 and 3, controlling odors to the satisfaction of the City, maintaining operation of treatment processes during removal of sludge, protecting existing improvements in place during sludge removal operations, protecting daily WWTP operations;
 2. Providing necessary equipment, power and utilities to adequately remove and haul sludge, control odors, and mitigate objectionable odors;
 3. Temporary grading and site improvements to accommodate sludge removal operations, if required;
 4. Testing and analytical results from a certified California laboratory qualified to perform testing in accordance with Title 22 CCR, Division 4.5, Chapter 11, Article 3;
 5. Hauling and disposing of sewage sludge at a fully licensed,

qualified facility to handle and beneficially reuse non-hazardous sewage sludge solids, or qualified landfill;

6. All other incidental work necessary to complete the sludge removal in accordance with the Contract Documents.
7. Section 01 50 00, Temporary Facilities and Controls, Para. 1.012.A. Add the following: "Contractor shall provide temporary power provisions as required for the Work, the cost of which shall be included in the base bid. The City will pay for the cost of temporary power consumption during construction."
8. Section 02 21 00, Surveys. To Paragraph 1.2A, Summary, add the following: "The Work also includes survey of Ponds 1, 2 and 3 Pond bottoms prior to pond restoration, and following sludge drying/removal operations, as part of establishing quantities of existing soil to be removed from these ponds."
9. Section 02 42 00, Removal and Salvage of Construction Materials. Add Paragraph 3.9 as follows: "Contractor shall remove excess dirt from Ponds 1, 2 and 3, and place excess dirt in the areas shown on the Exhibit attached to this Addendum and as shown on the Drawings. The upper 5 to 6 inches of soil, after removal of sludge material, shall be used to fill in the existing ditch shown, with an estimated fill volume of 7,900 CY. Soils in this ditch shall be compacted to 90% relative compaction, with the upper 24 inches compacted to 85% relative compaction. Subsequent soils removed from Ponds 1, 2 and 3 shall be deposited:
 - a. To build up the berms between Effluent Disposal Fields 1, 2, 3 and 4 with soil (see arrows in the sketch). These berms shall be widened by approximately 2' and increased in height by 1', and berms shall be compacted to 85% relative compaction.
 - b. Within Effluent Disposal Fields 2 through 8, with no more than 3" soil depth added to any one field. Soil shall be spread and levelled to +/- 1" of a constant elevation within each field. Soil shall be loosely applied, not compacted.
10. Section 33 47 13, Pond and Reservoir Liners. Delete requirement for soil sterilant.
11. Section 33 47 99, Sludge Removal From Ponds. Replace with the attached Section 33 47 99, Sludge Removal From Ponds. This revised section addresses the option to remove and haul sludge without the requirement of mechanical dewatering equipment.

CHANGES TO DRAWINGS:

12. Drawing C-2. Ponds 1, 2 and 3, assume average bottom elevation of 222.50 across all three ponds for quantity and estimation purposes. Note that although Pond 1 elevations are shown, sludge was subsequently removed from this Pond 1 several years ago, and existing elevations shown may not be fully representative of actual pond bottom elevation.
13. Drawing C-5, Detail 6, Cable-Mounted Aerator and Mooring Post Detail. Change stainless steel cable call out from "3/8 inch SS Cable" to "3/16 inch SS Cable".
14. Drawings E-1, E-2, E-3 and E-4. Replace with the attached Drawings E-1, E-2, E-3, E-4. (Attached drawings follow page 5 of 5 of this addendum)

Please acknowledge receipt of this Addendum No. 4 by signing where indicated below. **Please EMAIL the signed and dated addendum to Mr. Doug Pike, City Engineer, City of Greenfield, (805) 331-3553, at dpike@mnsengineers.com.**

Company Name

Date

END OF ADDENDUM



Areas to Deposit Excess Soils from Ponds 1, 2 and 3

Verification of DIR Registration and Verification of Licensure of Sub Contractors

The Prime Contractor has verified that each Sub Contractor listed herein, at time of bid, has a Department of Industrial Relations (DIR) registration number, as well as is licensed with an appropriate license type, for the work to be performed. A list of Sub Contractors, with their DIR numbers and licensure information is below.

Signed (Contractor's Authorized Representative)/ Date

Subcontractor _____ DIR No. _____ Lic. Type/No. _____

Subcontractor _____ DIR No. _____ Lic. Type/No. _____