

**ADDENDUM NO. 7  
FOR  
CITY OF GREENFIELD  
WASTEWATER TREATMENT PLANT SURFACE AERATOR ADDITION**

DATE: April 11, 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: **NONE**

CHANGES TO PROCUREMENT REQUIREMENTS: **NONE**

CHANGES TO SPECIFICATIONS:

The specifications currently require a Geotextile fabric under the pond liner. To make it more clear and provide more detailed information:

Add the following paragraph to Section 33 47 13, Pond Liners: "2.3. Geotextile Fabric. Provide 10 ounce geotextile fabric, Western Liner Fabric N10 or approved equal, underlayment to be placed beneath synthetic pond liner. Geotextile shall be made of 100 percent polypropylene staple fibers, formed into a random network for dimensional stability, and providing resistance from UV deterioration, rotting biological degradation, naturally encountered basics and acids. The mat shall be stable within a pH range of 2 to 13.

Geotextile (10 ounce) shall conform to the physical properties listed below:

PROPERTY	N03	N04	SD	N04.5	S04	N05	N06	N07	N08	N10	N12	N16	OL
Tensile Strength, lbs. ASTM D-4632	80	90	100	120	130	135	160	180	203	250	300	400	90
Elongation (%) Minimum ASTM D-4632	50	50	50	50	50	50	50	50	50	50	50	50	50
Trapezoid Tear (lbs.) ASTM D-4533	35	40	45	50	60	55	65	75	80	100	115	145	30
Mullen Burst (psi) ASTM D-3786	150	185	210	230	140	270	310	330	380	520	600	750	180
Puncture Strength (lbs.) ASTM D-4833	45	55	65	70	40	80	90	105	130	165	190	240	NA
Permeability (cm/sec.) ASTM D-4491	.2	.2	.2	.2	.04	.2	.2	.2	.2	.2	.2	.2	NA
Permittivity (1/sec.) ASTM D-4491	2.2	2.1	2.0	1.8	0.8	1.7	1.5	1.5	1.5	1.2	.9	.7	NA
Water Flow Rate (g/m/sf) ASTM D-4491	160	155	145	130	60	120	110	110	110	85	65	50	NA
UV Resistance (% @ 500hrs.) ASTM D-4355 *(%@150 hrs.)	70	70	70	70	70	70	70	70	70	70	70	70	*70
AOS (U.S. Std. Sieve) ASTM D-4751	70	70	70	70	70	70	70	70	100	100	100	100	NA
Asphalt Retention (g/sy) ASTM D-6140	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	.2
<u>ROLL DIMENSIONS</u>													
Width (ft.)	12.5/15	12.5/15	12.5/15	12.5/15	12.5	12.5/15	15	15	15	15	15	15	12.5
Length (ft.)	432/360	432/360	432/360	432/360	300	432/360	300	300	300	180	180	180	360
Area (sy)	600	600	600	600	417	600	500	500	500	300	300	300	500
Approximate Weight (lbs.)	170	190	190	225	120	240	240	275	300	240	270	340	170

CHANGES TO DRAWINGS: **NONE**

***Bid Opening Date Does Not Change***

Please acknowledge receipt of this Addendum No. 7 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