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123 Brighton Lake Road, Suite 203, Brighton, MI 48116 Telephone: 810.220.2112 Fax: 810.220.0094

F A V		Date:	Nov	November 16, 2005	
FAX		Number of pages (including this page)		5	
	-	(If you do	not receive all pages, ca	II (810) 220-2112)	
То:	Mr. Michael Cicchella, Supervisor	& Northfield Townshi	p Board		
Company:	Northfield Township				
Fax Number:	734.449.0123				
From:	Donald E. Lund, P.E., President				
Phone Number:	(810) 220-2112	Fax Num	ber: <u>(810) 220-0094</u>		
Subject:	Northfield Township, MI, WWTP	Improvements, Opinior	of Probable Project C	Cost	
Project Number:		4			
REMARKS:		전 동생 등 모드		s —	
Urgent	For your review	Reply ASAP	Please comment	t	

Please find attached the above referenced information. Hard copies will follow in the mail. Thank you.



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November 15, 2005

Mr. Michael Cicchella, Supervisor & Northfield Township Board Northfield Township 75 Barker Road P.O. Box 576 Whitmore Lake, MI 48189-0576

Re: Northfield Township, MI WWTP Improvements Opinion of Probable Project Cost

Dear Board Members:

Please find attached our opinion of probable project cost for the proposed WWTP improvements that will expand the current 1.3 mgd capacity to 2.25 mgd. These proposed improvements will provide the 780,000 gpd of additional capacity requested by Green Oak Township as well as provide for the continued growth within the currently established sewer districts in Northfield Township.

Our cost opinion for the plant expansion is \$12,617,000 which includes \$866,750 for miscellaneous work identified during our site visit and discussions with WWTP staff. A separate description and cost breakdown of those improvements are provided for your information

Our cost opinion is based upon an ENR index of 7875 which corresponds to a project construction mid-point of January 2007 which would require design to be initiated in the next 2-3 months which may not be realistic. We understand this schedule is dependent upon both Northfield and Green Oak Township reaching agreement on capacity and cost allocations which will take time.

These costs are being used in preparing the wastewater cost of service study which will be presented with you for review soon. This information should permit your discussions to proceed with Green Oak Township to reach agreement on capital costs for sanitary sewer service. We are available to review this information with you and to assist in your discussions with Green Oak Township about cost and schedule issues.

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Mr. Michael Cicchella, Supervisor & Northfield Township Board Northfield Township, MI November 15, 2005 Page 2

Please advise when you are available to discuss this information.

Very truly yours,

Donald E. Lund P.E. President

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Attachment

CC: Cindy Wilson Michelle Manning Jim Cox

K:\Letters\Northfield Twp WWTP Cost Opinion.doc

OPINION OF PROBABLE CONSTRUCTION COST TETRA TECH MPS

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710 Avis Drive, Ann Arbor, Mi 48108 Telephone: (734) 665-6000 FAX: (734) 665-2570 PROJECT: WASTEWATER TREATMENT PLANT IMPROVEMENTS DATE: 11/2/2005 PROJECT NO. LOCATION: NORTHFIELD TOWNSHIP, MICHIGAN 0196136T.01 BASIS FOR ESTIMATE: [X] CONCEPTUAL [] PRELIMINARY [] FINAL ESTIMATOR: WJN TLE WORK: CHECKED BY: CURRENT ENR: 7700 Entire Plant Expansion

NO.	DESCRIPTION	QUANT.	UNIT	UNIT AMOUNT	TOTAL AMOUNT
1	Equalization Basin with Grit and Screen Bidg.	1	LS	\$1,848,000.00	\$1,848,000.0
2	Primary Clambers	2	EA	\$175,000.00	\$350,000.0
3	Aeration Basin and Equipment	1	LS	\$630,000.00	\$630,000.0
4	Final Clartfler	1	EA	\$400,000.00	\$400,000.0
5	Fitter Building	2,925	SF	\$122.00	\$356,850.0
6	Sand Filters	360	SF	\$350.00	\$126,000.0
7	Sludge Storage	380,000	GAL	\$1.22	\$483,600.0
8	Digester	225,000	GAL	\$1.85	\$438,750.0
9	Flow Splitting	2	EA	\$30,000.00	\$40,000.0
10	Repair Existing Digester Piping	1	LS	\$50,000.00	\$50,000.0
11	Ultraviolet Disinfection	1	LS	\$250,000.00	\$250,000.0
12	Roadway Repairs	1	LS	\$60,000.00	\$60,000.0
13	Natural Ges Generator	1	LS	\$220,000.00	\$220,000.0
14	Programming and Controls	1	LS	\$200,000.00	\$200,000.0
15	Yard Piping	1	LS	\$186,000.00	\$185,000.0
18	Mechanical	1	LS	\$1,127,640.00	\$1,127,540.0
17	Electrical	1	LS	\$845,730.00	\$845,730.0
18	Miscellaneous Work	1	LS	\$886,750.00	\$888,750.0
19					
20	General Requirements				\$849.800.0
21					
22	10% CONL				\$934,800.0
23					
24	Sublotal				\$10 282 920.0
25					
26	15% Engineering				\$1,542,400.0
27	5% Legal				\$514,100.0
28					
29	Total at ENR 7700 (Projected July 06)				\$12,339,400.0
30					
31	Updata to ENR 7875 (Projected Jan 07) - ADD	_			\$277,600.0
and the second second	TOTAL CONSTRUCTION COST		Contract of		\$12,617,000.00

OPINION OF PROBABLE CONSTRUCTION COST

TETRA TECH MPS

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710 Avis Drive, Ann Arbor, MI 48108		Telephone: (734) 665-6000	FAX: (734) 665-2570	
PROJECT:	WASTEWATER TREATMENT PLANT IMPROVEMEN	TS DATE:	10/11/2005 0196155T.01	
LOCATION:	NORTHFIELD TOWNSHIP, MICHIGAN	PROJECT NO.		
BASIS FOR ESTIMATE:	[X]CONCEPTUAL []PRELIMINARY []FINAL	ESTIMATOR:	NLW	
WORK:		CHECKED BY:		
Miscellaneous Work at Existing Facilities		CURRENT ENR:	7563	

NO.	DESCRIPTION	QUANT.	UNIT		TOTAL
1					
2	Remove and Replace Handralis at Various Tanks	600	LF	\$45.00	\$27,000.0
3	Remove and Replace Sidewalks	600	SF	58.08	\$4,800.0
4	Remove and Replace Roots on Existing Buildings	11,500	SF	\$7.00	\$80,500.0
5	Remove and Replace Primary Setting Tank Equipt.	1	LS	\$50,000.00	\$50,000.0
6	Remove and Replace Guardrail	2,500	LF	\$15.00	\$37,500.
7	Dame Cover on Trickling Filter	1	LS	\$200,000.00	\$200,000.0
8	Laboratory Expansion	450	SF	\$233.00	\$104,850.0
9	Concrete Repair	1	LS	\$20,000.00	\$20,000.0
10	Sludge Heating Piping Repair / Rework	1	LS	\$20,000.00	\$20,000.0
11	Sludge Bed Remaral	1	LS	\$50,000.00	\$50,000.0
12	Digenter Insulation (3" => R21)	1,200	SF	58.00	\$9,600.0
13	Security Enhancements				
14	Security System w/Fob entrance and door contacts	1	LS	\$35,000.00	\$35,000.0
15	Video Monitoring System (Includes 4 cameras)	1	LS	\$30,000.00	\$30,000.0
16	10" Chein link (1") fersce wi 3 strand barb wire	1,700	LF	\$75.00	\$127,500.0
17	Motorized Gate	1	LS	\$10,000.00	\$10,000.0
18	Trailer Mounted Vactor	1	LS	\$40,008.00	\$40,000.0
19	Equipment Storage	1	LS	\$40,000.00	\$40,000.0
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
- 5-11-	TOTAL CONSTRUCTION COST	-			\$886,750.00