



MEMORANDUM

TO: Kabetogama Town Board Members

FROM: Sara Christenson & Colin Marcusen
Project Engineers

DATE: January 6, 2015

RE: Puck's Point SSD Engineering Updates
SEH No. KABET 119468 14

This memo shall serve to provide you with updates on the PPSSD engineering items for the Township meeting on January 6, 2015.

- **Collection System Bid:**

Low Bidder: Wagner Construction - \$1,540,496.00

Bid tabulation for Wagner Construction and Utility Systems of America attached.

- **Treatment System Bid:**

Low Bidder: Magney Construction - \$2,047,400.00

Bid tabulation from Magney, Wagner, Wenck, and Utility Systems of America attached.

Breakdown of Magney bid along with earthwork subcontractor attached.

- **Project Total:**

Collection: \$1,540,496.00

Treatment: \$2,047,400.00

TOTAL: \$3,587,896.00

Original bid as one project: \$3,379,681.00 (project total from current bids \$208,215 more)

Target Rebid: \$2,836,850.00

Cost Per Month: **\$100/EDU**

- **Recommendations:**

Current bids would lead to a cost per month per EDU of greater than \$150. The bids should be rejected. Separate the mounds into a third project. Advertise in February. Bid in March.

Cc: Mary Manninen, Township Clerk and Jill Kiner, Township Treasurer
Enc: Financial analysis documents from Scott Harder.



TABULATION OF BIDS

PROJECT NO.: **KABET 114902**
 NAME: **2015 SANITARY SEWER COLLECTION SYSTEM**
 OWNER: **KABETOGAMA TOWNSHIP, MN**
 BID DATE: **WEDNESDAY, DECEMBER 17, 2014 @ 11:00 A.M.**

ITEM	QUANTITY	UNIT	DESCRIPTION	ENGINEER'S ESTIMATE		¹ WAGNER CONSTRUCTION		² UTILITY SYSTEMS OF AMERICA	
				UNIT COST	TOTAL	UNIT COST	TOTAL	UNIT COST	TOTAL
1	1.00	LS	MOBILIZATION	\$25,000.00	\$25,000.00	\$55,000.00	\$55,000.00	\$150,000.00	\$150,000.00
2	1.00	LS	EROSION CONTROL AND TURF RESTORATION	\$50,000.00	\$50,000.00	\$45,000.00	\$45,000.00	\$12,000.00	\$12,000.00
3	1.00	LS	CLEARING AND GRUBBING	\$20,000.00	\$20,000.00	\$20,000.00	\$20,000.00	\$10,000.00	\$10,000.00
4	12.00	EA	REMOVE EXISTING TANK	\$1,400.00	\$16,800.00	\$1,400.00	\$16,800.00	\$1,000.00	\$12,000.00
5	12.00	EA	STEP SYSTEM 1000 GALLON	\$18,500.00	\$222,000.00	\$14,000.00	\$168,000.00	\$12,500.00	\$150,000.00
6	9.00	EA	STEP SYSTEM 1500 GALLON	\$22,000.00	\$198,000.00	\$17,000.00	\$153,000.00	\$13,000.00	\$117,000.00
7	3.00	EA	STEP SYSTEM 2000 GALLON	\$22,000.00	\$66,000.00	\$18,500.00	\$55,500.00	\$13,500.00	\$40,500.00
8	2.00	EA	STEP SYSTEM 2500 GALLON	\$24,000.00	\$48,000.00	\$18,000.00	\$36,000.00	\$14,000.00	\$28,000.00
9	1.00	EA	STEP SYSTEM 3000 GALLON (DUPLEX PUMPS)	\$25,000.00	\$25,000.00	\$25,000.00	\$25,000.00	\$16,000.00	\$16,000.00
10	300.00	CY	GRANULAR FOUNDATION	\$22.00	\$6,600.00	\$22.00	\$6,600.00	\$38.00	\$11,400.00
11	17.00	EA	LATERAL ASSEMBLY	\$1,000.00	\$17,000.00	\$1,000.00	\$17,000.00	\$1,000.00	\$17,000.00
12	6.00	EA	RESIDENTIAL LIFT STATION	\$16,500.00	\$99,000.00	\$10,000.00	\$60,000.00	\$9,200.00	\$55,200.00
13	2,274.00	LF	3" HDPE FORCE MAIN PIPE (9' DEPTH, TRENCHLESS, ROCK)	\$59.00	\$134,166.00	\$59.00	\$134,166.00	\$80.00	\$181,920.00
14	1.00	EA	3" GATE VALVE AND BOX	\$800.00	\$800.00	\$800.00	\$800.00	\$1,750.00	\$1,750.00
15	2,294.00	LF	2" HDPE FORCE MAIN (9' DEPTH, TRENCHLESS, SOIL)	\$18.00	\$41,292.00	\$18.00	\$41,292.00	\$15.00	\$34,410.00
16	893.00	LF	2" HDPE FORCE MAIN (9' DEPTH, TRENCHLESS,	\$30.00	\$26,790.00	\$80.00	\$71,440.00	\$79.00	\$70,547.00
17	2.00	EA	2" CURB STOP AND BOX	\$1,500.00	\$3,000.00	\$1,500.00	\$3,000.00	\$1,500.00	\$3,000.00
18	105.00	LF	1 1/2" PE FORCE MAIN (9' DEPTH, TRENCHLESS, SOIL)	\$16.00	\$1,680.00	\$16.00	\$1,680.00	\$30.00	\$3,150.00
19	1,011.00	LF	1 1/2" PE FORCE MAIN (9' DEPTH, TRENCHLESS,	\$58.00	\$58,638.00	\$73.00	\$73,803.00	\$78.00	\$78,858.00



TABULATION OF BIDS

PROJECT NO.: **KABET 114902**
 NAME: **2015 SANITARY SEWER COLLECTION SYSTEM**
 OWNER: **KABETOGAMA TOWNSHIP, MN**
 BID DATE: **WEDNESDAY, DECEMBER 17, 2014 @ 11:00 A.M.**

ITEM	QUANTITY	UNIT	DESCRIPTION	ENGINEER'S ESTIMATE		¹ WAGNER CONSTRUCTION		² UTILITY SYSTEMS OF AMERICA	
				UNIT COST	TOTAL	UNIT COST	TOTAL	UNIT COST	TOTAL
20	1,356.00	LF	1 1/2" PE FORCE MAIN (INSULATED 1'-2' DEPTH)	\$43.00	\$58,308.00	\$43.00	\$58,308.00	\$78.00	\$105,768.00
21	2.00	EA	1 1/2" CURB STOP AND BOX	\$700.00	\$1,400.00	\$700.00	\$1,400.00	\$1,250.00	\$2,500.00
22	690.00	LF	1 1/4" HDPE SERVICE (9' DEPTH, TRENCHLESS, SOIL)	\$31.00	\$21,390.00	\$31.00	\$21,390.00	\$30.00	\$20,700.00
23	2,085.00	LF	1 1/4" HDPE SERVICE (9' DEPTH, TRENCHLESS,	\$58.00	\$120,930.00	\$73.00	\$152,205.00	\$78.00	\$162,630.00
24	342.00	LF	RESIDENTIAL LIFT STATION SERVICE PIPE (TRENCHED)	\$41.00	\$14,022.00	\$41.00	\$14,022.00	\$40.00	\$13,680.00
25	1,050.00	LF	4" PVC GRAVITY SERVICE PIPE	\$43.00	\$45,150.00	\$43.00	\$45,150.00	\$40.00	\$42,000.00
26	27.00	EA	CONNECT TO EXISTING SERVICE (PER TANK)	\$650.00	\$17,550.00	\$650.00	\$17,550.00	\$400.00	\$10,800.00
27	4.00	EA	FORCE MAIN FLUSHING CONNECTION	\$4,700.00	\$18,800.00	\$2,000.00	\$8,000.00	\$1,500.00	\$6,000.00
28	5.00	EA	MAIN LINE TRACER WIRE ACCESS BOX	\$550.00	\$2,750.00	\$550.00	\$2,750.00	\$250.00	\$1,250.00
29	1.00	EA	AIR RELEASE MANHOLE 3" FM	\$6,500.00	\$6,500.00	\$6,500.00	\$6,500.00	\$7,500.00	\$7,500.00
30	1.00	EA	AIR RELEASE MANHOLE 2" FM	\$6,000.00	\$6,000.00	\$6,000.00	\$6,000.00	\$5,500.00	\$5,500.00
31	1.00	EA	AIR RELEASE MANHOLE 1.5" FM	\$5,700.00	\$5,700.00	\$5,700.00	\$5,700.00	\$5,500.00	\$5,500.00
32	200.00	CY	STREET RESTORATION - GRAVEL (AS NEEDED)	\$35.00	\$7,000.00	\$35.00	\$7,000.00	\$35.00	\$7,000.00
33	200.00	SQ YD	STREET RESTORATION - COUNTY ROAD (AS NEEDED)	\$60.00	\$12,000.00	\$60.00	\$12,000.00	\$15.00	\$3,000.00
34	900.00	CY	ROCK EXCAVATION (STEP) (EV)	\$120.00	\$108,000.00	\$120.00	\$108,000.00	\$125.00	\$112,500.00
35	14.00	EA	ROCK EXCAVATION LATERAL ASSEMBLY	\$1,000.00	\$14,000.00	\$1,000.00	\$14,000.00	\$1,500.00	\$21,000.00
36	3,260.00	CY	COMMON BORROW	\$14.00	\$45,640.00	\$14.00	\$45,640.00	\$18.00	\$58,680.00
37	1,100.00	CY	TOPSOIL BORROW	\$28.00	\$30,800.00	\$28.00	\$30,800.00	\$22.00	\$24,200.00
GRAND TOTAL BID					\$1,595,706.00		\$1,540,496.00		\$1,602,943.00



TABULATION OF BIDS

PROJECT NO.: KABET 114902
 NAME: 2015 WASTEWATER TREATMENT AND DISPERSAL
 OWNER: KABETOGAMA TOWNSHIP, MN
 BID DATE: WEDNESDAY, DECEMBER 17, 2014 @ 10:00 A.M.

ITEM	QUANTITY	UNIT	DESCRIPTION	ENGINEER'S ESTIMATE		¹ MAGNEY CONSTRUCTION		² WAGNER CONSTRUCTION		³ WENCK CONSTRUCTION		⁴ UTILITY SYSTEMS OF AMERICA	
				UNIT COST	TOTAL	UNIT COST	TOTAL	UNIT COST	TOTAL	UNIT COST	TOTAL	UNIT COST	TOTAL
1	1.00	LS	LUMP SUM BID PRICE	\$1,100,000.00	\$1,100,000.00	\$2,047,400.00	\$2,047,400.00	\$2,124,000.00	\$2,124,000.00	\$2,320,000.00	\$2,320,000.00	\$2,325,000.00	\$2,325,000.00
TOTAL BID					\$1,100,000.00		\$2,047,400.00		\$2,124,000.00		\$2,320,000.00		\$2,325,000.00

P:\KOK\KABET\114902\Bidding Documents\2015 WW Treatment & Dispersal\Bid Tabulation - Treatment.xlsx\BIDTAB

Kabetogama WWTF

Bid Date: December 17, 2014

	<u>Description</u>	<u>Total Cost</u>	
100000	General Conditions	131,186	
033000	Concrete Slab under FRP Building	6,890	
133401	Modular Fiberglass Building	72,020	
230120	HVAC	38,750	
260505	Electrical	74,405	
311100	Division 31 - Earthwork	884,314	
312319	Dewatering	26,702	
321111	Division 32 - Exterior Improvments	w/earthwork	
323110	Fencing	13,800	
330110	Division 33 - Site Utilities	w/earthwork	
402320	Process Pipe and Fittings	64,669	
460730	Wastewater Tanks	239,842	
	Settling tank Influent Baffle	11,892	
	Settling Tank Effluent Screen	17,874	
460753	Wastewater Pretreatment System	372,781	
	Equalization Pumps	2,743	Material cost included in 460753
	Pretreatment Units	47,642	Material cost included in 460753
	Blowers	6,026	Material cost included in 460753
	ABC Dosing / Recirc Pumps	4,558	Material cost included in 460753
	Drainfield Dosing Pumps	4,558	Material cost included in 460753
	Chemical Feed Systems	6,693	Material cost included in 460753
		0	
	Sub Bond - Viitas	12,555	
	Allowance	7,500	
	TOTALS	2,047,400	

Bid Cost Breakdown - Earthwork Subcontractor

<u>Spec</u>	<u>Description</u>	<u>Total</u>
14500	Quality Control	6,500
15515	Maintenance of Roads	5,100
17113	Mobilization	59,400
311100	Clear & Grub	26,308
312310	Excavation & Embankment	3,100
312316	Structure Excavation and Backfill	114,500
312319	Dewatering	1,500
312333	Trench Excavation & Backfill	5,200
321111	Subgrade Prep & Aggregate Surfacing	39,922
329200	Lawns and Grasses	21,300
329212	Erosion Control	4,800
330520	Horizontal Directional Drilling	10,400
333400	Sewage Force Mains	116,907
333612	Soil Based Diversion System (Southwest)	144,500
333612	Soil Based Diversion System (South)	54,504
333612	Soil Based Diversion System (Southeast)	124,200
334110	Pipe Sewers	4,200
460730	Excavate/Backfill Tanks and Set in Place	88,945
	Sub Bond - Viitas	10,917
	TOTALS	842,203