

Darrin Gordon
Lewes Board of Public Works
107 Franklin Ave.
Lewes, DE 19958

June 27, 2018

Subject: Lift station telemetry

Dear Mr. Gordon,

After reviewing the lift stations and the infiltration issues, it is my opinion that installing telemetry at each station would help greatly. Telemetry will allow you to track the station and receive data on many items all for about the same price to install one mag meter. Each station will put out the following data at a minimum.

- Pump run time, frequency, alternation and average (all can be alarmed)
- Estimated flow (or actual if it has a mag meter currently) (can be alarmed)
- High level alarm
- Spreadsheet data on monitoring available

Cost to supply and install **per** station \$4,950

Each station will require a monitoring package which includes remote internet monitoring and cellular signal. The fee for this is \$38.00 per month per station. Upon installation we will sign you up with the provider and have them bill you for the service.

If you have any questions please call me at your convenience. To approve the work please sign below thank you

Sincerely



Samuel R. Schlegel
Contract Operations Manager

Work Authorization

of stations

Date

LEWES BOARD OF PUBLIC WORKS
2018/19 THROUGH 2022/23 CAPITAL IMPROVEMENT BUDGET
 As of February 2018

DESCRIPTION	FY 2018/19	FY 2019/20	FY 2020/21	FY 2021/22	FY 2022/23	TOTAL
WATER						
Lead Service Line Replacement	\$49,000	\$52,000	\$53,000	\$55,000	\$57,000	\$266,000
Pilottown Road Main Abandonment	\$850,000					\$850,000
3rd Street and Burton new main	\$250,000					\$250,000
Johnson Street Main replacement		\$650,000				\$650,000
Expansion to CPCN	\$100,000	\$120,000	\$125,000	\$130,000	\$135,000	\$610,000
Kings Highway and Devries			\$300,000			\$300,000
School Lane Renewal				\$270,000		\$270,000
New Road to Rodney Loop						\$550,000
Water Main Replacement/Renewal	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$750,000
Water Transmission to Distribution upgrade	\$120,000	\$140,000				\$260,000
Hydrant Replacement	\$11,576	\$12,155	\$12,763	\$13,401	\$14,071	\$63,965
Vehicle	\$14,000	\$29,500	\$40,000			\$83,500
Beach Parking Lot #2	\$700,000					\$700,000
Valve Replacement	\$130,000	\$166,950	\$175,298	\$184,062		\$685,310
Total	\$1,803,576	\$1,320,605	\$856,060	\$802,463	\$906,071	\$5,688,775
WATER PRODUCTION						
Well Development						\$300,000
1 MG Water Tank						\$850,000
Increased monitoring		\$15,000	\$15,000	\$15,000	\$15,000	\$60,000
Well Maintenance	\$27,000	\$28,000	\$29,000	\$30,000	\$31,000	\$145,000
Security Fence		\$95,000				\$95,000
Total	\$27,000	\$138,000	\$14,000	\$45,000	\$1,196,000	\$1,450,000

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SEWER

Vehicle	\$14,000																					
Sewer Main Replacement/Renewal	\$150,000	\$120,000	\$40,000	\$120,000	\$120,000	\$120,000	\$120,000	\$120,000	\$120,000	\$630,000												
Sewer Lift Station Renewal	\$47,000	\$50,000	\$53,000	\$56,000	\$59,000	\$265,000																
Sewer Main Outlets/Lining	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$250,000																
Device Circle	\$190,000					\$190,000																
Manhole Replacement/Rehab	\$44,100	\$46,305	\$48,620	\$51,051	\$53,604	\$243,680																
Nutrient Trade	\$20,000					\$20,000																
Savannah Place/Swannendale Acres 1"		\$72,000				\$237,500	\$309,500															
Total	\$515,100	\$338,305	\$311,620	\$514,551	\$302,604	\$1,982,180																

WWTP

Replace MCC/Upgrade drives and PLC in headworks	\$150,000		\$80,000		\$115,000	\$20,000	\$225,000	\$150,000
Drying Bed Cover								\$80,000
Drying Bed Expansion								\$115,000
Train Wall Polyuria								\$20,000
Filter Press								\$225,000
Vehicle								\$45,000
Micro Filter Zenon Replacement		\$625,000		\$625,000				\$1,250,000
PDP Effluent Pumps-Recondition	\$50,000							\$35,000
Outfall Pipe Repair	\$290,000							\$290,000
Total	\$475,000	\$625,000	\$705,000	\$180,000	\$225,000	\$2,210,000		

STORMWATER

Storm water Master Plan Action	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000	\$400,000
Catch Basin Renewal	\$30,388	\$31,907	\$33,503	\$35,178	\$36,937	\$167,913
Savannah Road and Canal	\$45,000					\$45,000
Vehicle and Vac Trailer	\$125,000		\$10,000			\$165,000
Pipe Replacement	\$25,200	\$26,460	\$27,783	\$29,172	\$30,631	\$139,246
Outfall One-way Valves		\$15,750	\$17,538	\$17,364	\$18,233	\$67,884
Total	\$305,588	\$154,117	\$161,787	\$161,714	\$165,800	\$985,043

ELECTRIC

Bucket truck	\$180,000					\$400,000
Savannah Bridge Aerial Crossing Renewal	\$270,000					\$270,000
Well Field Solar Installation					\$30,000	\$1,230,000
Vehicle	\$28,000					\$56,000
Building Improvements/Schley	\$35,000	\$45,000	\$45,000	\$45,000	\$28,000	\$125,000
U.G. Cape Shores						\$250,000
U. G. Bay Breeze		\$240,000				\$240,000

U.S. Pilottown Village																						
Generator relocate																						
Renovate behind the meter																						
69 KV Breaker (M. Delmarva Connection)																						
Total																						
	\$933,000	\$365,000	\$450,000	\$1,500,000	\$388,000	\$3,636,000																

SUPPORT																						
High Speed Antennas																						
Computer Replacement																						
SAP Replacement																						
SAP Upgrade- Windows																						
Meter Reading Vehicle (Electric)																						
Vehicle																						
GIS Mapping System																						
Total	\$131,000	\$311,000	\$32,000	\$33,000	\$34,000	\$541,000																

GRAND TOTAL	\$4,190,264	\$3,252,027	\$2,596,504	\$3,236,729	\$3,217,475	\$16,492,998																
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