



**DIRECTOR OF ENGINEERING REPORT**

**Mar 23, 2022**

District Engineering manages projects, consultants, contractors, and equipment suppliers. Consultant reports and Project Managers reports are included in this section along with details regarding the status of the associated study, design, or construction projects.

**ACTIVE PROJECTS**

**20-07 Digester Complex Improvements:**

**Key**

SCOPE: The Digester #3 floating cover and the face brick on all four digester tanks is being replaced.						
Contractor: Christy-Foltz Engineer: Donohue and Associates			R.E. Inspector: SDD/W Gray - Donohue			
Advertise	Pre-bid	Bid Open	Final Award	Notice to Proceed	Pre-Construction	Contract Completion
11/17/20	12/01/20	12/22/20	02/17/21	03/18/21	03/18/21	3/13/2022 + 30 Final
Submittals Reviewed: 8 complete /0 open Requests for Information (RFIs): 7 complete /0 open Owner Requests for Proposal/Change Order (RFPCO): 11 complete / 3 open						

**Activities:** This last period the cleaning of Digester #1 began. Staff was able to pump down to within 1’ of the contractual level. To keep the project moving forward, a work change directive was issued to the contractor to pump/screen the extra sludge from the digester.

**Issues:** Staff has continued negotiating a change order with the contractor to address the digester cover cost escalation and time extension request. Agreement in principle has been reached on the Time extension, escalation costs, and design change costs. *There is a change order (#03) before the board for consideration to address the contractor requested escalation costs and additional costs due to cover side sheet modifications.*

The engineering services agreement with the engineer is approaching its financial limit; staff is reviewing an amendment from the engineer requesting additional compensation for the remaining work on this project.

**Pending Changes:**

- WCD 01 and WCD 02: Additional Pump Down of Digester Contents: Contract documents required SDD to bring digester liquid elevation down to 593.0 and digesters have been turned over to contractor at various liquid elevations due to pump down issues. Contractor was put on time and material for the additional pumping required.  
Digester 1 – 594.50; Digester 2 - 595.80; Digester 3 – 595.33; Digester 4 – 593.00  
\$ 31,668.00 +  
\$ T&M is ongoing
- Digester #1 cold joint repairs. District issued Field Order to remove damaged concrete, prepare the leaking concrete seam, and install Xypex patch along the cold joint in the concrete walls. Work is being performed on a T&M basis.  
\$ T&M
- Coatings on Digester #3 will be addressed as contractor completes the installation of the cover. Contractor was directed to perform the work on a T&M basis.  
\$ T&M



**20-01 Lake Shore Drive PS Replacement:**

**Key**

SCOPE: The lift station is being reconfigured with submersible pumps.						
Contractor: Christy-Foltz			R.E. Inspector: SDD/ J Edenburn - CDI			
Engineer: Clark Dietz Engineers, Inc						
Advertise	Pre-bid	Bid Open	Final Award	Notice to Proceed	Pre-Construction	Contract Completion
12/02/20	01/05/21	02/03/21	03/24/21	04/07/21	04/07/21	4/2/2022 + 30 Final
Submittals Reviewed: 61 received / 59 completed / 32 Rejected						
Requests for Information (RFIs): 8 submitted/7 completed						
Owner Requests for Proposal/Change Order (RFPCO): 1 Issued/1 Completed						
Change Orders: 1 completed						

**Activities:** Bypass operation is ongoing. Demo of the existing pump station building is complete. Contractor has begun working outside of contract times daily and weekends to attempt to catch up on the project schedule. The latest construction schedule reflects the contractor expects substantial completion 54 days beyond contract date.

**Issues:** *There are two items related to this project before the board for consideration under old business.*

1. Change Order 02 for all items outstanding on the construction work including the requested time extension, which is being rejected, and items related to the modifications required to be made to the bypass operation, the addition of an out-of-scope hatch over a valve in the wet well, and the addition of a valve outside the pump station in the discharge FM.
2. Amendment to the Engineering Construction Related services agreement with Clark Dietz.

**20-01 South Shores Sewer Rehab:**

**Key**

SCOPE: CIPP lining of approximately 17,700 LF of sewer, tie-in connections and approximately 700 vertical feet of cementitious manhole restoration.						
Contractor: SAK Construction			Engineer: Farnsworth Group, Inc			
Advertise	Pre-bid	Bid Open	Intent Award Final Award	Notice to Proceed	Pre-Construction	Contract Completion
12/15/20	02/02/21	03/02/21	03/17/21 05/26/21	06/21/21	06/15/21	270 Substantial 300 Final
Submittals Reviewed: 4 received / 0 outstanding						
Requests for Information (RFIs): none						
Owner Requests for Proposal/Change Order (RFPCO): none						

**Activities:** Contractor has been on site wrapping up the bypass operations by removing temporary piping; finishing final manhole work; and final sewer tap lining. As soon as asphalt plants open back up, final road restoration will occur. As expected, restoration will extend beyond the substantial completion. Rainy weather could prevent the removal of rock from temporary access roads as contractor finishes work.

**Issues:** None



**21-03 Effluent Pump #3 Replacement:**

Key

**SCOPE:** Scope of work includes the removal of existing effluent pump #3, installation of replacement pump/motor, procurement/installation of a FSI (formed suction intake) and flow modification appurtenances in the influent channel.

Contractor: Burdick Plumbing Engineer: SDD

Advertise	Pre-Bid	Bid Open	Final Award	Notice to Proceed	Pre-Construction	Scheduled Completion
12/14/2021	01/07/2022	02/04/2022	02/16/2022	03/xx/2022	03/xx/2022	60 Days – S 90 Days - F

**Activities:** Notice of Award was issued this last period. Contractor has provided bonds and insurance certificate.

**20-10 De-chlorination Facilities (Bisulfite Tanks Replacement):**

Key

**SCOPE:** Remove and rebuild knock out wall to facilitate removal and installation of new sodium bi-sulfite tanks. Additional tuck point repairs throughout building to be performed within project. Tank removal and installation to be performed by SDD maintenance.

Contractor: TBD Engineer: SDD

**Activities:** Purchase order was issued to Belding Tank Technologies for two replacement tanks (\$37,664). Delivery ETA is between 26 and 31 weeks. Staff is developing a specification for fixing the knockout panel in the building.

**Demolition of 1245 Koshinski Lane property**

NON-

**SCOPE:** SDD is currently in the process of completing the demolition permit as required by the county of Macon. Permit requires an asbestos inspection be performed. During the inspection, it was found that all floor tiles and ceiling in the garage contained asbestos that must be abated. Abatement was completed this last period. Entler Excavating will be given notice to commence with demolition once final abatement documentation has been received.

**CONSTRUCTION ACTIVITY**

**ADMINISTRATIVE OFFICE MASTER PLANNING:**

**SCOPE:** Phased approach to evaluating existing Administrative Facilities at the SDD.

Phase 1 – Current State facility assessment looked at the condition and costs to maintain existing administrative infrastructure.

Phase 2 – Space Needs and Building Utilization was to assess the current space available, evaluate the utilization of that space and calculate the raw space required based on industry standards.

Phase 3 - (\$10,000) Phase 3 is to perform a pre-design level study ranging from modifications and upgrades to the existing facilities to the possibility of a new facility, based on the space needs that were identified in Phase 2. The study includes a high-level cost opinion that provides context for the findings from Phase 1 and 2.

**Update:** Following the review of the Phase 3 report from last month, staff has evaluated the options and developed a recommendation for proceeding. Attached to this report is an Administrative Building Recommendation letter for trustee review.

**NUTRIENT PROGRAM MANAGER (NPM) ACTIVITY**

Staff has started weekly coordination meetings with Black and Veatch and GeoSyntec.

We have received the 1<sup>st</sup> monthly status updates from BV and have incorporated them as attachments to this report. There is a workshop scheduled for March 15, 2022. That will include BV team site visit and investigation into future options for BNR operating configurations.

High level schedule is:

Feb/Mar –	Develop Quality Assurance Project Plan (QAPP); and Review of Publicly available data
Apr/May -	Review of Findings with SDD; and Perform Site Visit to confirm sampling locations; and Finalize sampling plan and review with IEPA
June-	Deploy samplers and begin sample collection

**RFP Wet Weather Interceptor Capacity Study – Damon to Treatment Plant**

Staff received proposals this last period from firms interested in performing this study.

Proposals were received from Burns and McDonnell, HDR Engineering, Crawford, Murphy, and Tilley (CMT) and RJN Group. The RFP was for services to develop, calibrate, and validate an interceptor sewer model that represents the Damon Ave to WWTP interceptor system response to rainfall. Results of the study will be to predict interceptor sewer capacity during certain recurrence interval rain events (i.e., 1hr – 10yr storm) and assist with determination of capacity available to allot to development on the Northeast part of Decatur. RFPs are under review. *A ranking of the proposals and recommendation for the firm to begin negotiations with is expected to be available by the trustee meeting.*

**20-17 Sewer Pre-Cleaning Televising and PACP Rating**

The district utilizes NASSCO PACP ratings to standardize the condition of sewer pipes. The asset management program targets an assessment every 10 years. We perform rating in advance of sewer cleaning to highlight areas where SDD needs to extend extra effort to clean the sewer prior to rating the pipe. The PACP rating is a professional service offered by Telescan here in Decatur. Telescan began televising and performing pipeline condition televising rating of the sewers this last period.

1. Stevens Creek North            22,646 LF
2. West Mound Branch            6,361 LF
3. Northside Interceptor        9,898 LF (physical televising has been completed)

**UPCOMING PROJECTS:**

**Replacement of Sludge Transfer Pump:** This pump moves sludge from the main treatment plant to the Wyckles Facility. Staff is working with Farnsworth Group on a scope of work for design modifications associated with installing the new pumps in the pump transfer room. We anticipate an agreement for services to be available for trustee consideration at the April trustee meeting.

**STUDY: East Headworks Grit Flow Modeling – Clemson Engineering Hydraulics**

The district experiences imbalanced grit loading through this structure and with the West Headworks upgrades is desiring to address the imbalanced grit load. This project is to build a scale model of flow/grit through the east primary headworks. Dr David Werth of Clemson Engineering has confirmed this model is being built on the testing floor now and they are expecting the hydraulic modeling to be completed this month (March) with a report to follow thereafter.

**INTERGOVERNMENTAL ACTIVITIES**

None

If there are any questions, please contact me by telephone at 422-6931 ext 216, or by email at [DonM@sddcleanwater.org](mailto:DonM@sddcleanwater.org).

## **(18-09) Administrative Facilities Review**

### **Summary and Recommendation Letter to the Trustees of SDD**

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Architectural Expressions (AEX) and the District have completed a multiple phased assessment of the existing administration building, maintenance office complex, and instrumentation and controls (I&C) offices. The assessment consisted of three key review phases which covered:

1. Property Condition Assessment – Identification of deficiencies in the existing facilities.
2. Space Needs and Building Utilization – Assessment of Current office space available compared with Recommended space based on typical architectural standards.
3. Conceptual Plan Study – Combined the information available from Phases 1 and 2 and generated a high-level cost matrix for several alternative approaches to address deficiencies uncovered in the previous assessment phases.

Each of the first two phases established what was needed for the Conceptual Plan Study which was presented by Larry Livergood of AEX at the February 2022 Board meeting. The Conceptual Plan Study outlined options to address the deficiencies of any upgrade to the administrative facilities.

The Primary Objectives of the facilities upgrades could be outlined as follows:

1. The core of the existing administration building was built 100 years ago. It has been modified several times since that time with the last major renovation occurring 32 years ago. Future upgrades should be designed to last 50 years or more.
2. Create an easier and more secure public access method to board meetings, NPDES Permit required public meetings, Watershed Group Meetings, waste haulers, etc.
3. Outside the administration building, the District has retrofitted existing or abandoned process facilities to accommodate staff offices. Offices, communication, and general efficiency in layouts are limited when retrofitting, therefore, upgrades should facilitate better flexibility in addressing changing technology, ADA and other code improvements and staffing needs in the future.
4. Facility upgrades should target fostering and improving communication and teamwork.

As we consider the options in the Phase 3 report, how well each option achieves the Primary Objectives along with other tangible and intangible items was considered. For example, some alternatives will create more issues with operational interference than others. Lesser interference is more desirable; and other options will be easier to address desired “sustainable practices” such as geothermal heating and cooling, solar panels, and building efficiencies (Leadership in Energy and Environmental Design - LEED).

The matrix below is used to rank the 5 options to on each of these categories, with the lowest ranking being the option that best achieves the targeted objective. Note that Option 2 has been removed from consideration. After further discussion, staff determined that while a two-facility option might make sense from a separation of public versus operational focus, the separation would not allow the longstanding divide between union and management to be bridged. Option 3 has the same separation flaws as Option 2, however, it remained in the consideration discussion because it reuses an existing asset.

**(18-09) Administrative Facilities Review  
Summary and Recommendation Letter to the Trustees of SDD**

**Assessment Matrix (lowest total score best meets the primary objectives).**

Objective	Option 1	Option 2	Option 3	Option 4	Option 5
50-year Asset	1	X	3	4	5
Secure Public Access	3		1	4	5
Staff/Team communication	1		4	3	5
Flexibility in future tech needs	1		3	4	5
Transition impact on operations	1		3	4	5
Ease of sustainability practice implementation	1		3	4	5
<b>Sum of the Scores</b>	<b>8</b>			<b>17</b>	<b>23</b>
Relative Cost (from Phase 3)	\$2.77M	\$3.36M	\$2.28M	\$0.04M	\$0

A summary of the Preliminary Cost Opinions for each option is provided below for comparison.

<b>COST OPINION - SUMMARY</b>					
	OPTION 1	OPTION 2	OPTION 3	OPTION 4	OPTION 5
<b>NEW CONSTRUCTION AREA</b>	<b>35,000 SF</b>	<b>35,000 SF</b>	<b>20,000 SF</b>	<b>13,200 SF</b>	<b>0 SF</b>
<b>NEW CONSTRUCTION</b>					
SUBSTRUCTURE	621,000	653,000	355,000	234,000	-
SHELL					
Superstructure	867,000	911,000	495,000	327,000	-
Exterior Enclosure	1,645,000	1,729,000	940,000	620,000	-
Roofing	375,000	395,000	215,000	142,000	-
INTERIORS	901,000	947,000	515,000	340,000	-
SERVICES					
Plumbing	259,000	273,000	148,000	98,000	-
HVAC	846,000	890,000	484,000	319,000	-
Fire Protection	225,000	237,000	129,000	85,000	-
Electrical	1,085,000	1,141,000	620,000	409,000	-
<b>NEW CONSTRUCTION SUB-TOTAL</b>	<b>6,824,000</b>	<b>7,176,000</b>	<b>3,901,000</b>	<b>2,574,000</b>	<b>-</b>
<b>BUILDING DEMOLITION AREA</b>	<b>21,800 SF</b>	<b>21,800 SF</b>	<b>0 SF</b>	<b>0 SF</b>	<b>0 SF</b>
<b>BUILDING DEMOLITION SUB-TOTAL</b>	<b>262,000</b>	<b>262,000</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>BUILDING REMODELING AREA</b>	<b>0 SF</b>	<b>0 SF</b>	<b>20,500 SF</b>	<b>20,500 SF</b>	<b>26,800 SF</b>
<b>BUILDING REMODELING SUB-TOTAL</b>	<b>-</b>	<b>-</b>	<b>3,075,000</b>	<b>3,075,000</b>	<b>4,020,000</b>
<b>OTHER COSTS</b>					
SITE IMPROVEMENTS (% OF NEW)	1,706,000	1,794,000	975,000	644,000	-
SPECIAL CONSTRUCTION (LAB BUILDOUT)	500,000	500,000	500,000	500,000	500,000
LIFE CYCLE MAINTENANCE (PCA)	-	-	393,000	393,000	2,569,000
<b>OTHER COSTS SUB-TOTAL</b>	<b>2,206,000</b>	<b>2,294,000</b>	<b>1,868,000</b>	<b>1,537,000</b>	<b>3,069,000</b>
<b>CONSTRUCTION SUB-TOTAL</b>	<b>9,293,000</b>	<b>9,731,000</b>	<b>8,843,000</b>	<b>7,186,000</b>	<b>7,089,000</b>
<b>GENERAL CONDITIONS, OH &amp; P</b>	<b>2,323,000</b>	<b>2,433,000</b>	<b>2,211,000</b>	<b>1,797,000</b>	<b>1,772,000</b>
<b>CONSTRUCTION TOTAL</b>	<b>11,616,000</b>	<b>12,164,000</b>	<b>11,054,000</b>	<b>8,983,000</b>	<b>8,861,000</b>
<b>SOFT COSTS</b>	<b>813,000</b>	<b>851,000</b>	<b>884,000</b>	<b>719,000</b>	<b>797,000</b>
<b>OPTION TOTAL</b>	<b>12,429,000</b>	<b>13,015,000</b>	<b>11,938,000</b>	<b>9,702,000</b>	<b>9,658,000</b>

OPTION DESCRIPTIONS:

- OPTION 1 – BUILD NEW FACILITY AND RAZE EXISTING ADMIN BUILDING
- OPTION 2 – BUILD TWO NEW FACILITIES AND RAZE EXISTING ADMIN BUILDING
- OPTION 3 – BUILD NEW FACILITY AND RENOVATE EXISTING FACILITY
- OPTION 4 – ADD LAB ADDITION TO ADMIN BUILDING
- OPTION 5 – UPDATE EXISTING FACILITIES

**(18-09) Administrative Facilities Review**  
**Summary and Recommendation Letter to the Trustees of SDD**

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Recommendation:

Staff believes that Option 1, offers the best opportunity to provide improved public access to the Board Room, long-term flexible facilities for future technology implementation and services, and facilitates all staff members working out of a single location fostering cooperation, communication, and teamwork.

We recommend that staff should be directed to proceed with developing a financing plan, begin doing preliminary engineering assessments such as soil borings at potential sites and begin preparing a Request for Proposals for the design of a single new building in the 30,000-35,000 SF range.



# Memorandum

Date: March 8, 2022  
To: Donald B. Miller, P.E., Director of Engineering  
From: Will Gray, P.E., Donohue & Associates  
Re: Project Status Report  
2020-07 Digester Improvements Project  
Donohue Project No. 13782

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## 2020-07 Digester Improvements Project

### Westech Price Escalation Coordination

Westech has notified the District that an escalation of material pricing has caused their original proposal price to go up. Material prices are escalating at a rapid rate due to unprecedented inflationary pressures and supply chain issues. In normal times there is always upward price escalation from the time of bid to the time the material fabrication is started. In normal times, this is accounted for by the material suppliers at bid time and additional funds are not normally requested from the owners. In this time period, inflationary pressures are causing material and commodity pricing to rapidly increase beyond the typical allocated margins.

Bids from the General Contractors were received on December 22, 2020 and Christy Foltz was the selected contractor. During bidding, bidders were directed to coordinate with Westech directly to define scope of supply and division of work between the supplier and the general contractor. Westech sent their proposal directly to Christy Foltz during bidding. Their proposal contained a notice that their pricing was good for only thirty (30) days and further had an exceptions page that contained the following escalation clause:

***Carbon and Stainless Escalation:*** Any material price increase from proposal date to material procurement greater than 2.5% from stated prices set forth herein are subject to escalation. The escalation shall be based upon increases at cost, without additional profit, overhead or margin and shall include labor, material, and other costs to Westech that occur in the specified time period. Any revisions or changes requested by the customer will be priced on a case by case basis. Carbon material escalation will be based on a third-party carbon steel material index of flats and longs, such as the SBB indexes located at <https://www.steelbb.com>. Any carbon steel escalation will be based on carbon current flats and longs indexes which are in effect at the time of bid. Stainless material escalation will be based on a third-party material nickel index, such as the SBB index located at <https://www.steelbb.com>. Any escalation will be based on current nickel price indexes which are in effect at the time of bid.

Notice to Proceed for Christy Foltz was issued on March 18, 2021. Shop drawings for the digester cover were received in September and October 2021, with the approval being issued in October 2021. This is over a year after the original procurement proposal was submitted by Westech. At the current rate of inflation and escalation, the updated pricing from Westech's material suppliers exceeds their original proposal submitted in September 2020 by a significant margin. In discussions with the District, the District and Donohue both agree that it is reasonable that Westech is due additional compensation due to the increased material pricing.



The original letter sent from Westech did not adequately document the basis for the amount of the requested escalation. Donohue and the District has had a number of coordination phone calls with Christy Foltz and with Westech to help Westech prepare the appropriate documentation for the proposed pricing change. The District has had ongoing discussions with the Contractor regarding final pricing for the Change Order preparation. The price adjustment has been agreed to between the District and the Contractor and final documentation will be submitted by Christy Foltz on March 9, 2022. A change order will be prepared for District execution at the March 2022 Board meeting.

Other Project Progress Items

- Progress meetings are being held when directed by the District.
- The manway hatch repair on Digester #4 is complete.
- The Ridgelok panel installation on Digester #3 is complete.
- Digester #4 has been returned to service.
- Digester #1 is the next to be taken out of service, cleaned, and prepared for brick removal and Ridglok installation. Stewart Spreading will begin cleaning Digester #1 when a weather window above freezing presents itself.
- Change Order #3 has been prepared and will be presented to the Board at the March meeting. It contains the additional costs from the Westech material cost escalation, the additional steel cost associated with the redesign of the side wall, and a time extension for Christy-Foltz.

Updated: 2-9-2022	Open	Closed	Total
Submittals	0	8	8
RFI	0	7	7
Change Order Request	3	8	11
Change Orders	1	2	3

CHANGE ORDER LOG

- Change Order #1 has been executed, \$42,549.39.
- Change Order #2 has been executed, \$46,173.89.
- Change Order #3 is before the board for consideration.
  - WesTech - Additional Steel Costs and Redesign Fee
  - WesTech – Material Cost Escalation
  - Christy-Foltz Time Extension



March 4, 2022

Mr. Donald Miller  
Sanitary District of Decatur  
501 S. Dipper Lane  
Decatur, IL 62522

Re: Lakeshore Drive Lift Station Replacement Project  
SDD Project No. 20-01  
Clark Dietz Project No. D0540030  
Monthly Progress Update

Dear Mr. Miller:

This letter summarizes the work of the Lakeshore Drive Lift Station construction project for February 2022. This month their major activities included reviewing submittals and coordinating weekly progress meetings.

- Submittals: Christy-Foltz has sent 82 submittals, 6 were reviewed and returned during this period. Thirty-six submittals have been rejected in whole or in part. When scoping the project Clark Dietz assumed a total of 40 submittal reviews. We have been concerned that there are many submittals that the contractor has not yet sent and we have made and transmitted to the contractor a log of additional submittals that we are expecting.
- RFIs: Christy-Foltz has sent thirteen RFIs, one was reviewed and returned during this period.
- RFPs and Change Orders: We have sent one RFP for the elimination of the 20-inch forcemain, which resulted in Change Order 1. The contractor has sent two time change requests:
  - 10/22/21 – Clark Dietz reviewed and commented on this in a letter dated 11/1/21
  - 2/23/22 – Clark Dietz reviewed and commented on this in a letter dated 2/28/22
- Pay Application: Christy-Foltz has sent six pay applications.
- Meetings: Clark Dietz prepared agendas, lead, and prepared minutes for two construction progress meetings during this billing period, at your request.
- Schedule: Christy-Foltz has submitted six construction schedules as of the end of this billing period. The first four were rejected due to unrealistic task dates as noted in previous update letters. The most recent schedules have substantial completion as follows:

Date Submitted	Substantial Completion	Days After Contract Substantial Completion (4/2/22)
6/15/21	4/6/22	--
8/13/21	3/29/22	--
9/15/21	4/25/22	23
10/6/21	5/16/22	44
10/20/21	5/16/22	44
12/2/21	6/28/22	87
1/28/22	5/25/22	53

As of the date of this letter and given the progress of the work it is unlikely that substantial completion will meet this date.

- Bypass pumping delays: though bypass pumping setup, startup, and testing was the primary cause of the delays to date this system is now installed, tested, and operational.



- Resident Project Representative: per your request we have staffed this project with an inspector on the days when work is occurring on-site and site inspection is requested by the District. This inspector has regularly communicated with your staff to discuss issues, inspection procedures, progress, and scheduling. This task is outside of the scope of work of our agreement and we have been tracking our time and noting it as a separate line item on our invoices. Per our discussions the week of February 21, we have ended this task as of 2/26/22.

The upcoming contract dates are summarized as follows:

- April 2, 2022 – Substantial Completion
- May 2, 2022 – Final Completion

In March we anticipate that the contractor will finalize concrete demolition in the wet and dry wells, work on installing grade beams, and footings, and install underground electrical. We anticipate that Clark Dietz's time during this period will include receiving and reviewing additional shop drawings, coordinating with the contractor regarding their schedule and questions, and attending and preparing agendas and minutes for progress meetings.

Many of the items noted above including the number of submittals, the number of rejected submittals, the frequency of meetings, preparing and transmitting additional information to the contractor regarding numerous questions, and schedule delays in addition to the engineering work required to prepare Change Order 1 will cause us to exceed our predicted time-and-materials costs that was included in our agreement. We plan to continue working with the District to review materials, answer questions, lead progress meetings, and perform site observation on the same time-and-material basis for the remainder of the project unless directed otherwise by the District.

Please call me at 217-373-8933 if you have any questions.

Very Truly Yours,  
Clark Dietz, Inc.

Andrea W. Bretl, P.E.  
Project Manager

March 4, 2022

Sanitary District of Decatur  
501 Dipper Lane  
Decatur, IL 62522

Attn: Don Miller, Director of Engineering

Re: 20-06 South Shores Rehab  
Project Status Report

Dear Don:

We are pleased to provide the following project status summary for the current project that Farnsworth Group is working on for the District. Our most recent monthly invoice for work on this current project is attached for your consideration.

**1. 20-06 South Shores Sewer Rehab (L17-5456):**

**A. Construction Progress:**

- Cured-in-place lining installation is completed for entire project.
- Bypass pumps have been removed and piping is in process of being removed from the second segment of the interceptor main from S. Main St. (Bus 51) to the east end of S. Shores Dr.
- Cleaning and televising work is completed for entire project.
- Lateral lining is expected to be complete by March 11.
- Manhole rehabilitation work is expected to be complete by March 11.
- Temporary Access easements are in process of being restored, communication with homeowners is ongoing.
- Substantial Completion is set for March 18, 2022 and Final Completion is set for April 17, 2022.

**B. Construction administration is ongoing with Contractor Pay Application review.**

- RFI's: 8 RFI's received via email; 8 RFI's reviewed and returned via email to date
- Change Orders: None received to date
- Shop Drawings: 7 submittals received; 7 submittals reviewed and returned to date
- Contractor Pay Applications: Pay Application #7 has been reviewed
- Additional Construction Observation provided this month: None this month

**C. As of this Project Invoice #16 (Invoice No. 231714), we have billed \$175,827.80 to date on the project scope which is 85% of the total estimated fee of \$207,800. The additional**

Sanitary District of Decatur

January 3, 2022

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construction observation services billed to date of \$6,271.59 have been provided separately from the Base scope on an as needed basis.

If you have any questions or need any additional information regarding the status of this project, please feel free to contact me any time. Thanks.

Sincerely,

FARNSWORTH GROUP, INC.

Kevin N. Hannel, PE  
Engineering Manager

March 7, 2022

Sanitary District of Decatur  
501 Dipper Lane  
Decatur, IL 62522

SDD Nutrient Program Manager  
BV Project No. 411502

Attention: Don Miller, P.E., Director of Engineering

Subject: Sanitary District of Decatur (SDD) Nutrient Program Management  
Monthly Progress Update

Dear Mr. Miller:

This letter summarizes the work associated to the SDD Nutrient Program Management project for services through March 7, 2022.

1. Program Management, Administration, and Coordination
  - Prepared for and conducted the Nutrient Program Manager project kickoff meeting on February 17, 2022. The meeting included SDD and Black & Veatch and discussed the overall project and phase scopes of work, schedule, and assignments.
  - Began conducting bi-weekly program conference calls to update progress and discuss key issues.
  - Provided ongoing management of the project including program setup, preparation/monitoring of the program schedule and budget as well as program administrative duties.
2. Pretreatment Program Update
  - Initiated/discussed as part of the Program Management Kick-off meeting
3. Phosphorus Discharge and Optimization Plan (PDOP)
  - Initiated/discussed as part of the Program Management Kick-off meeting
4. Watershed Support Services
  - Prepared for and conducted the Watershed Support Services Task Kickoff Meeting on February 9, 2022. The meeting included SDD, Black & Veatch, and Geosyntec.
  - Established bi-weekly progress update meetings
  - Geosyntec completed the following items:
    - i. Conducted data review/analysis of prior FOIA request and established initial data gaps
      1. Cataloged the existing data
      2. Completed additional FOIA request
    - ii. Began the Quality Assurance Project Plan (QAPP)
  - Began initial planning and outline for the Watershed Group formation development

5. WRRF Upgrade Plan

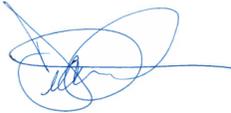
- Initiated/discussed as part of the Program Management Kick-off meeting
  - i. Established Workshop #1 will be held at SDD on March 15, 2022. This will include team chartering, brainstorming, and site visit.
- Completed preliminary data review and provided SDD with a detailed data and special sampling request.
- Began additional data review to identify a range of technologies that are applicable for modifying the activated sludge process for nutrient removal as well as begin to define key drives and needs for the overall facility.
- Began preparation for Workshop #1

6. Pilot and Demonstration Testing (if needed)

- Initiated/discussed as part of the Program Management Kick-off meeting

Please feel free to contact me with any questions, comments or if you need additional information.

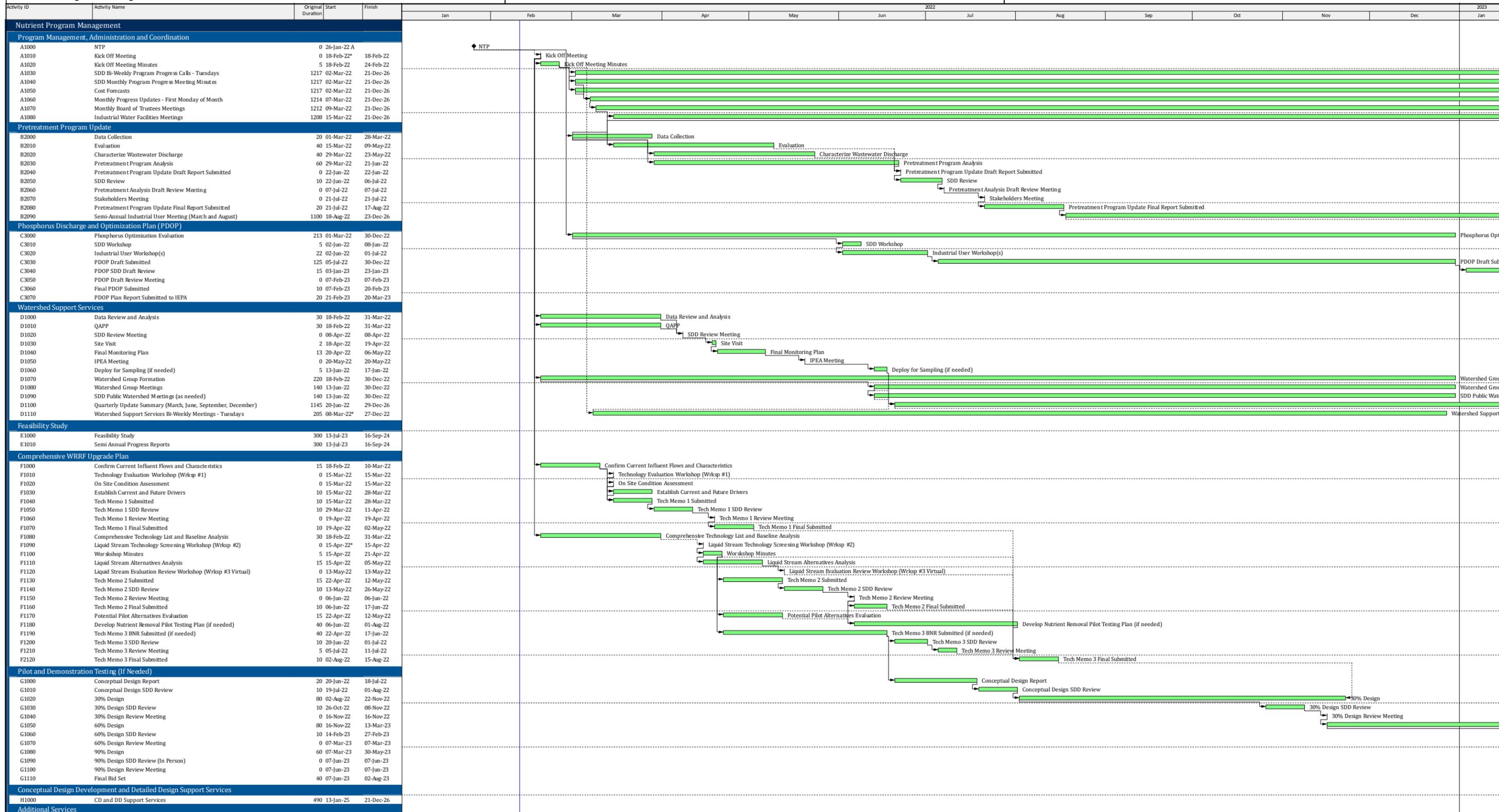
Sincerely,



Diane Grossenheider, P.E.  
Project Manager, Black & Veatch

Enclosure(s):

- SDD Nutrient Program Manager Schedule (Year 1)
- Cost Forecast

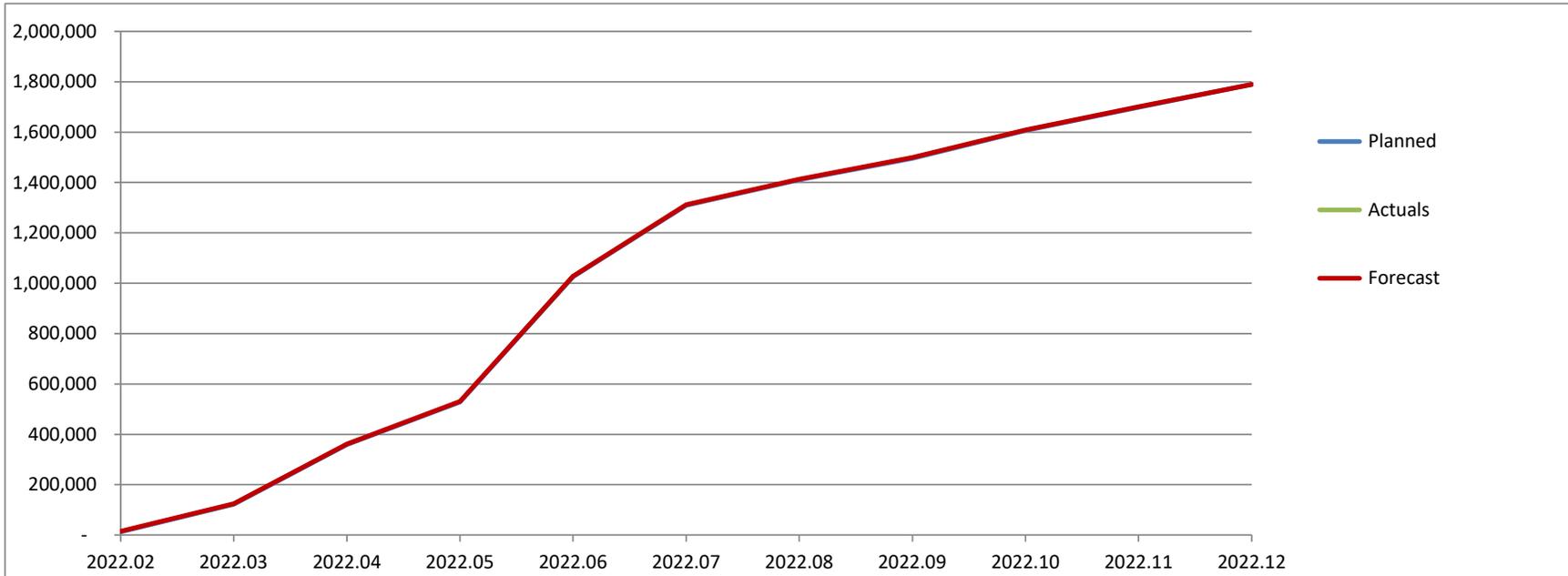


█ Actual Work     █ Critical Remaining Work  
█ Remaining Work     ◆ Milestone

**SANITARY DISTRICT OF DECATUR- NUTRIENT PROGRAM MANAGEMENT**  
**2022 COST FORECAST**  
**BV Project Number: 411502**

Incremental	2022.02	2022.03	2022.04	2022.05	2022.06	2022.07	2022.08	2022.09	2022.10	2022.11	2022.12	2022 Total
Planned	13,683	108,359	237,519	168,336	497,476	284,217	100,648	86,219	109,725	91,822	91,820	1,789,824
Actuals	16,030											16,030
Forecast	16,030	108,359	237,519	168,336	497,476	284,217	100,648	86,219	109,725	91,822	89,473	1,789,824

Cumulative	2022.02	2022.03	2022.04	2022.05	2022.06	2022.07	2022.08	2022.09	2022.10	2022.11	2022.12	2022 Total
Planned	13,683	122,042	359,561	527,897	1,025,373	1,309,590	1,410,238	1,496,457	1,606,182	1,698,004	1,789,824	1,789,824
Actuals	16,030											
Forecast	16,030	124,389	361,908	530,244	1,027,720	1,311,937	1,412,585	1,498,804	1,608,529	1,700,351	1,789,824	



March 7, 2022

Sanitary District of Decatur  
501 Dipper Lane  
Decatur, IL 62522

SDD Nutrient Program Manager  
BV Project No. 411502

Attention: David Collard, Operations and Compliance

Subject: Sanitary District of Decatur (SDD) Nutrient Program Management  
Watershed Support Services Bi-Annual Update Report

Dear Mr. Collard:

This letter summarizes the progress of the watershed support services associated to the SDD Nutrient Program Management Project through March 7, 2022.

- Black & Veatch Prepared for and conducted the Watershed Support Services Task Kickoff Meeting on February 9, 2022. The meeting included SDD, Black & Veatch, and Geosyntec. During this meeting, the team confirmed the overall scope of work, schedule, assignments, and next steps.
- Black & Veatch has established bi-weekly progress update meetings with SDD to provide task progress and discuss key issues.
- Geosyntec completed an initial data review and analysis of existing data provided by SDD. The data was further cataloged and a subsequent FOIA was submitted. Geosyntec will review and analyze the additional data once it has been received.
- Geosyntec has begun to develop a Quality Assurance Project Plan (QAPP)
- Black & Veatch and Geosyntec began initial planning tasks associated to the formation of an established Watershed Group.
- Next Steps:
  - Conduct site visit of preliminary sample locations, which is anticipated to occur in April 2022, with specific sampling locations still subject to revisions based on additional data review.
  - Development of a baseline data collection plan
  - Sampling is anticipated to occur in June 2022.
  - Organize and conduct SDD public watershed meetings for facilitating watershed group activity

Please feel free to contact me with any questions, comments or if you need additional information.

Sincerely,



Diane Grossenheider, P.E.  
Project Manager, Black & Veatch