DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY

Board of Directors

Meeting of the
Environmental Quality and Sewerage Services Committee

5000 Overlook Avenue, SW, Room 407
Thursday, February 19, 2015
9:30 a.m.

I. Call to Order — Bo Menkiti, Acting Chairperson

9:30 a.m. II. AWTP Status Updates — Walt Bailey
1. BPAWTP Performance

9:40 a.m. III. Status Updates: Potomac Interceptor Sewer — Liliana Maldonado
1. Odor Abatement Project

9:50 a.m. IV. Solar Power Purchase Agreement – Solar Power — George Hawkins

10:15 a.m. V. Action Items – Joint Use — Teresa Scott/Len Benson
1. Contract No. WAS-12-026-AA-JR, M.C. Dean
2. Contract No. WAS-13-013-AA-RE, Polydyne
3. Contract No. WAS-13-006-AA-RE, PVS Chemical Solutions
4. Contract No. DCFA #441, Peer Consultants, PC
5. Contract No. 140100, WGES, Washington Gas Energy Systems
6. Contract No. WAS-09-12-AA-GA, M & M Electric Morot Repair, Inc.

10:25 a.m. VI. Clean Rivers Project Status Update — Carlton Ray

10:40 a.m. VII. Quarterly CIP Report — Liliana Maldonado

10:50 a.m. VIII. Other Business/Emerging Issues

10:55 a.m. VIIII. Executive Session

11:00 a.m. X. Adjournment

Bo Menkiti
Acting Chairperson

* The DC Water Board of Directors may go into executive session at this meeting pursuant to the District of Columbia Open Meetings Act of 2010, if such action is approved by a majority vote of the Board members who constitute a quorum to discuss: matters prohibited from public disclosure pursuant to a court order or law under D.C. Official Code § 2-575(b)(1); contract negotiations under D.C. Official Code § 2-575(b)(1); legal, confidential or privileged matters under D.C. Official Code § 2-575(b)(4); collective bargaining negotiations under D.C. Official Code § 2-575(b)(5); facility security under D.C. Official Code § 2-575(b)(8); disciplinary matters under D.C. Official Code § 2-575(b)(9); personnel matters under D.C. Official Code § 2-575(b)(10);proprietary matters under D.C. Official Code § 2-575(b)(11); decision in an adjudication action under D.C. Official Code § 2-575(b)(13); civil or criminal matters where disclosure to the public may harm the investigation under D.C. Official Code § 2-575(b)(14), and other matters provided in the Act.

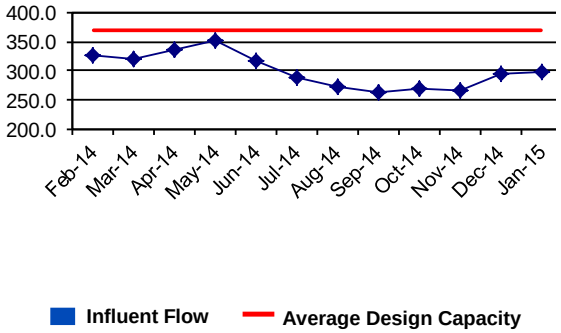
Follow-up Items from Prior Meetings:

1. Schedule a tour in spring 2015 of the MPT and CHP Facilities for the BOD. Provide a status update on the Asset Management Program at a future EQSS committee meeting. ***{Status report to be provided at the March meeting.}***

DEPARTMENT OF WASTEWATER TREATMENT
January 2015

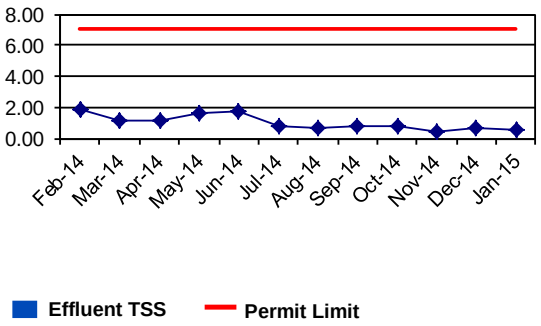
Average plant performance for the month was excellent with all effluent parameters well below the seven-day and monthly NPDES permit requirements. The monthly average influent flow was 299 MGD. There was 46 MG of Excess Flow during this reporting period. The following Figures compare the plant performance with the corresponding NPDES permit limits.

Plant Influent Flow (mgd)



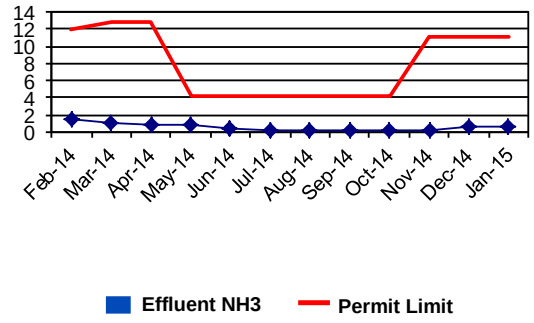
This graph illustrates the monthly average influent flow to the plant. The design average flow is 370 MGD. Blue Plains has a revised 4-hour peak flow capacity of 511 MGD through complete treatment. Flows up to 336 MGD in excess of the 511 MGD peak capacity receive primary treatment, disinfection and dechlorination.

TSS (mg/l)



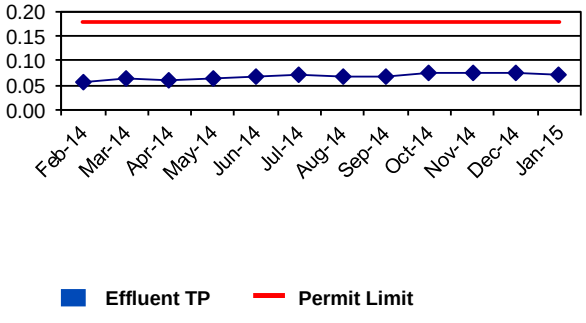
Effluent Total Suspended Solids (TSS) is a measure of the amount of solid material that remains suspended after treatment. The effluent TSS concentration for the month averaged 0.59 mg/L, which is below the 7.0 mg/L permit limit.

Ammonia (mg/l)

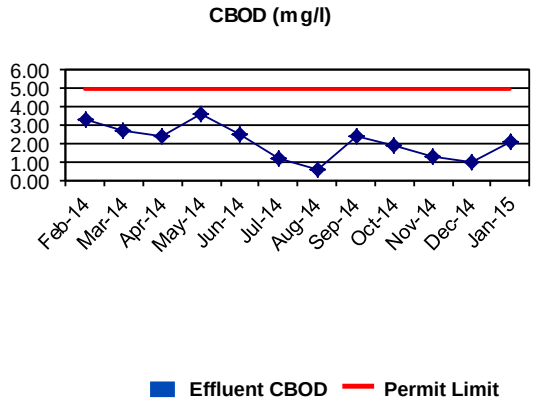


The Ammonia Nitrogen (NH3-N) is a measure of the nitrogen found in ammonia. For the month, effluent NH3-N concentration averaged 0.58 mg/L and is below the average 11.1 mg/L limit.

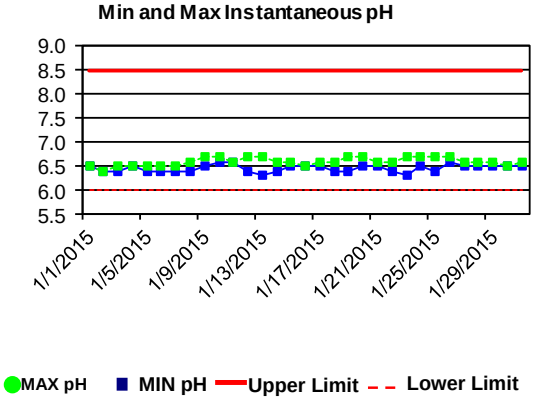
Total Phosphorus Annual Average (mg/l)



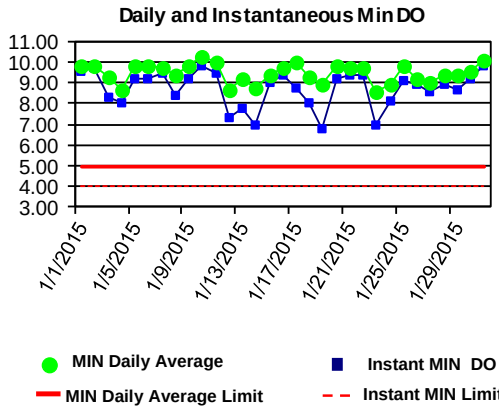
The Total Phosphorus (TP) is a measure of the particulate and dissolved phosphorus in the effluent. The annual average effluent TP concentration is 0.07 mg/L, which is below the 0.18 mg/L annual average limit.



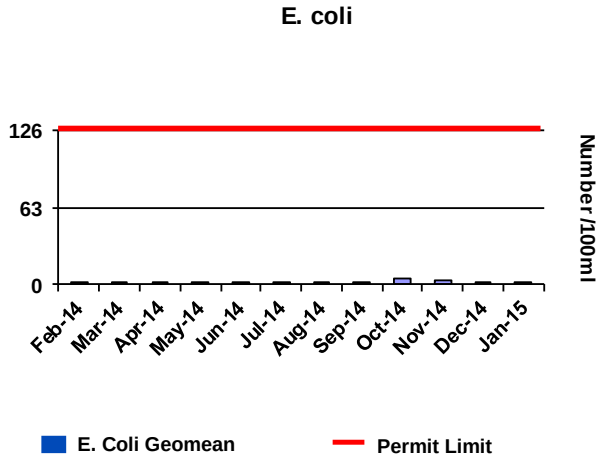
Carbonaceous Biochemical Oxygen Demand (CBOD) is a measure of the amount of dissolved oxygen required for the decomposition of organic materials. The effluent CBOD concentration averaged 2.17 mg/L (partial month) which is below the 5.0 mg/L limit.



pH is a measure of the intensity of the alkalinity or acidity of the effluent. The minimum and maximum pH observed were 6.3 and 6.7 standard units respectively. The pH was within the permit limits of 6.0 and 8.5 for minimum and maximum respectively.



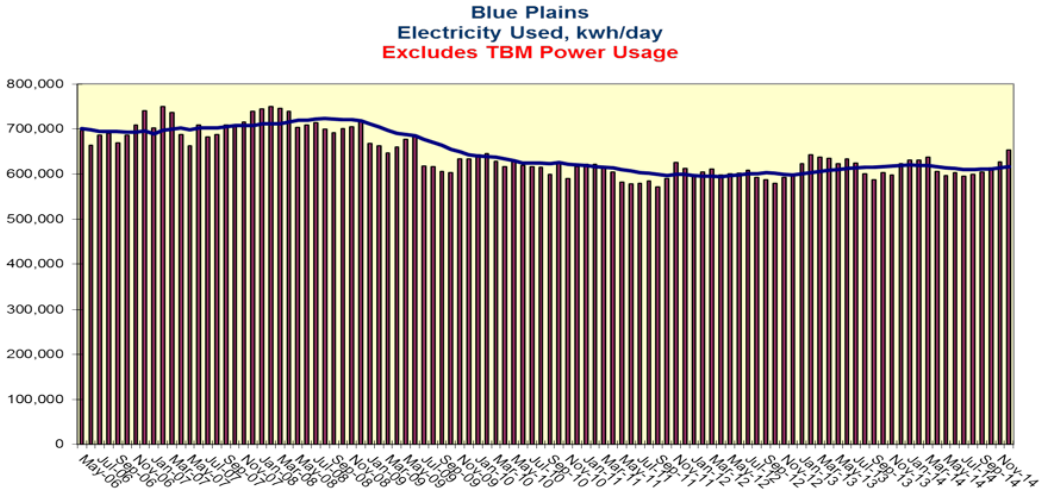
Dissolved Oxygen (DO) is a measure of the atmospheric oxygen dissolved in wastewater. The DO readings for the month are within the permit limits. The minimum daily average is 8.6 mg/L. The minimum instantaneous DO reading is 6.8 mg/L. The minimum permit limits are 5.0 mg/L and 4.0 mg/L respectively.

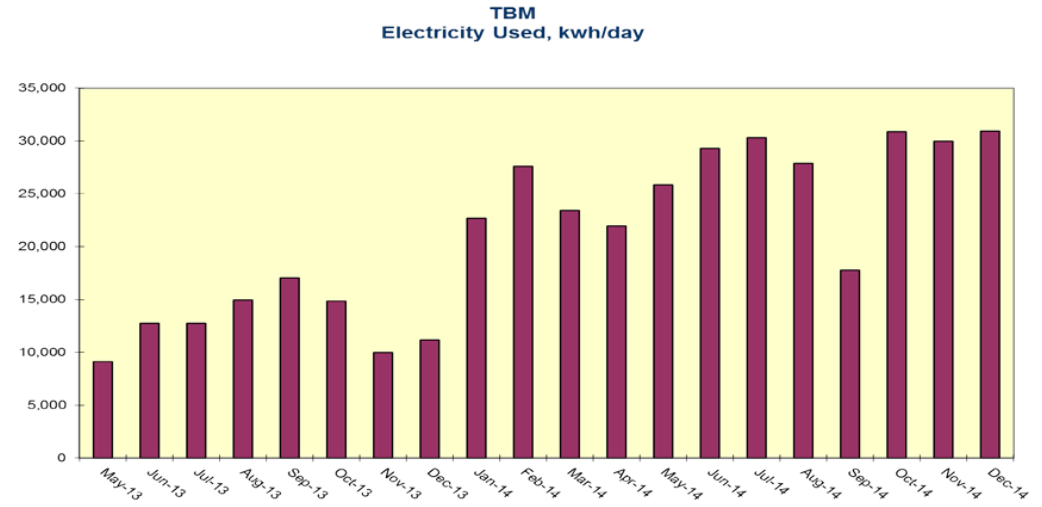


E.coli is an indicator of disease causing organisms (pathogens). The E.coli permit limit is 126/100mL. The E coli geometric mean is 1.0/100mL, and well below the permit limit.

BLUE PLAINS ELECTRICITY USAGE

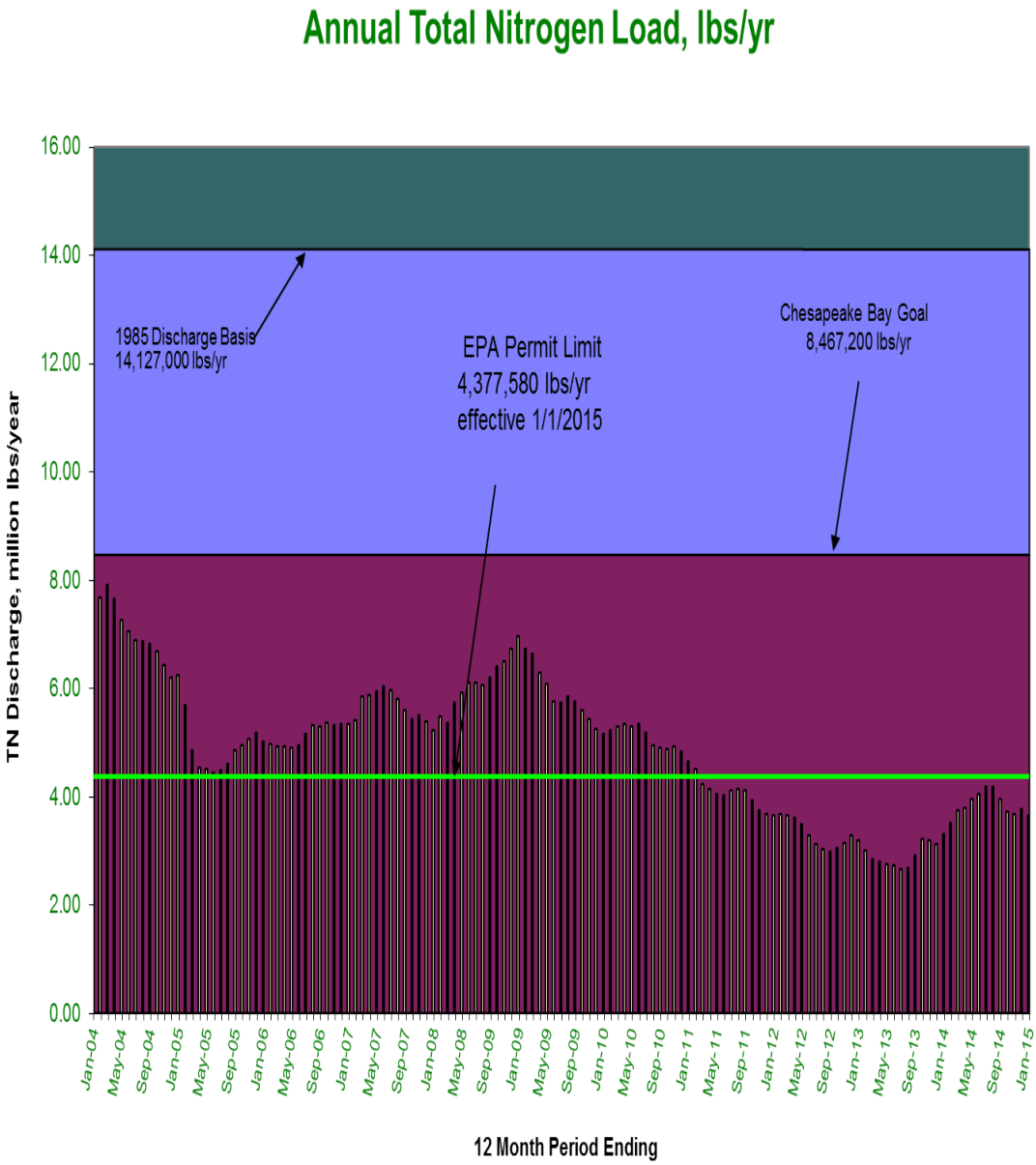
Blue Plains AWWTP has installed Power Monitors at critical points within the power distribution system to monitor power usage. The graph below is based on the installed power monitors and reflects usage at Blue Plains.

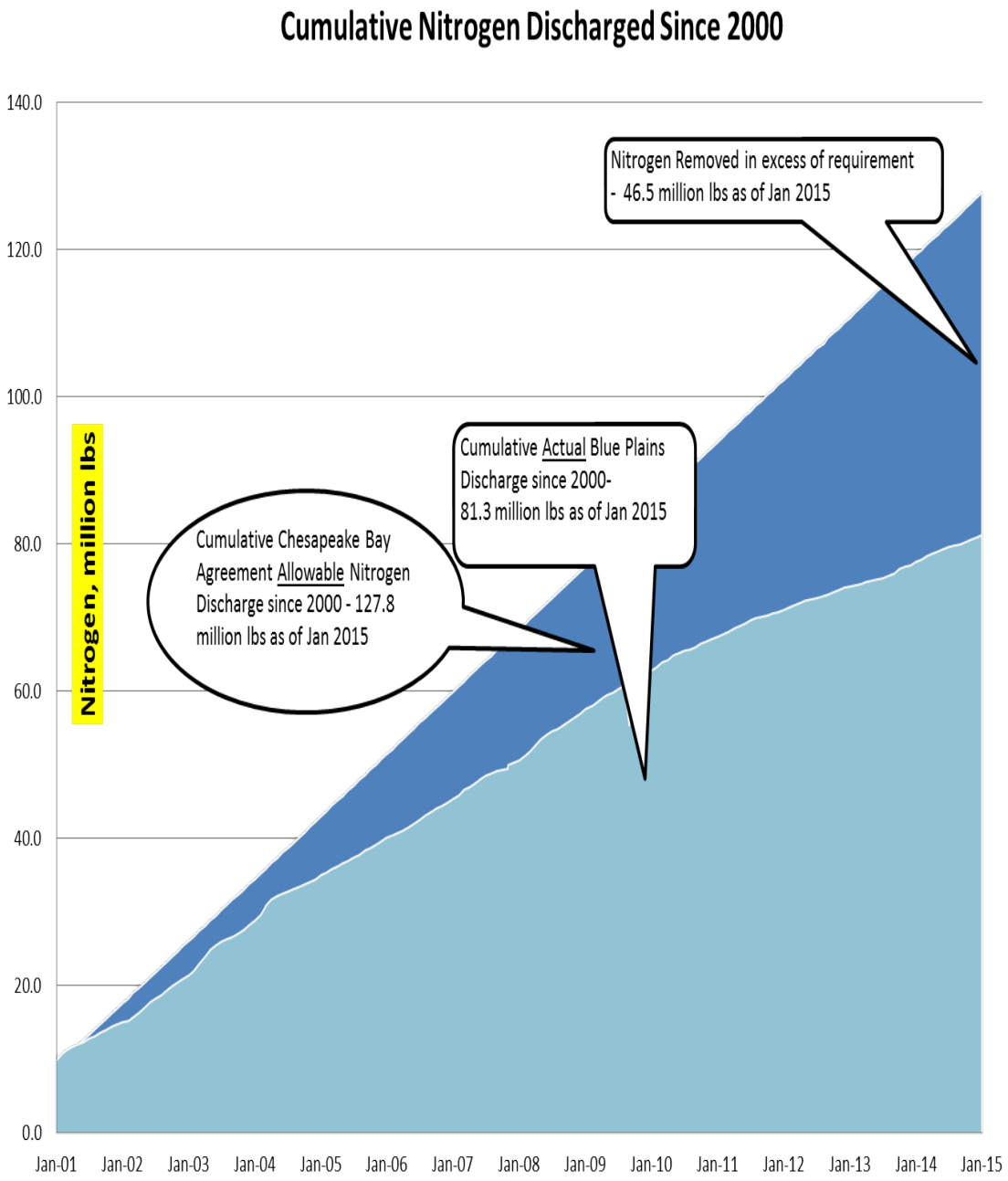




BIOLOGICAL NUTRIENT REMOVAL PERFORMANCE

During the month the full-scale BNR process produced an effluent with average total nitrogen concentration of 3.69 mg/l. The figure below shows Blue Plains effluent total nitrogen (TN) since the implementation of full scale BNR. The Figure shows Blue Plains meeting the Chesapeake Bay Goal of discharging less than 8,467,200 lbs/yr of TN.




Cumulative Nitrogen Discharged Since 2000
Nitrogen, million lbs
140.0
120.0
100.0
80.0
60.0
40.0
20.0
0.0
Jan-01
Jan-02
Jan-03
Jan-04
Jan-05
Jan-06
Jan-07
Jan-08
Jan-09
Jan-10
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Nitrogen Removed in excess of requirement - 46.5 million lbs as of Jan 2015
Cumulative Actual Blue Plains Discharge since 2000- 81.3 million lbs as of Jan 2015
Cumulative Chesapeake Bay Agreement Allowable Nitrogen Discharge since 2000 - 127.8 million lbs as of Jan 2015

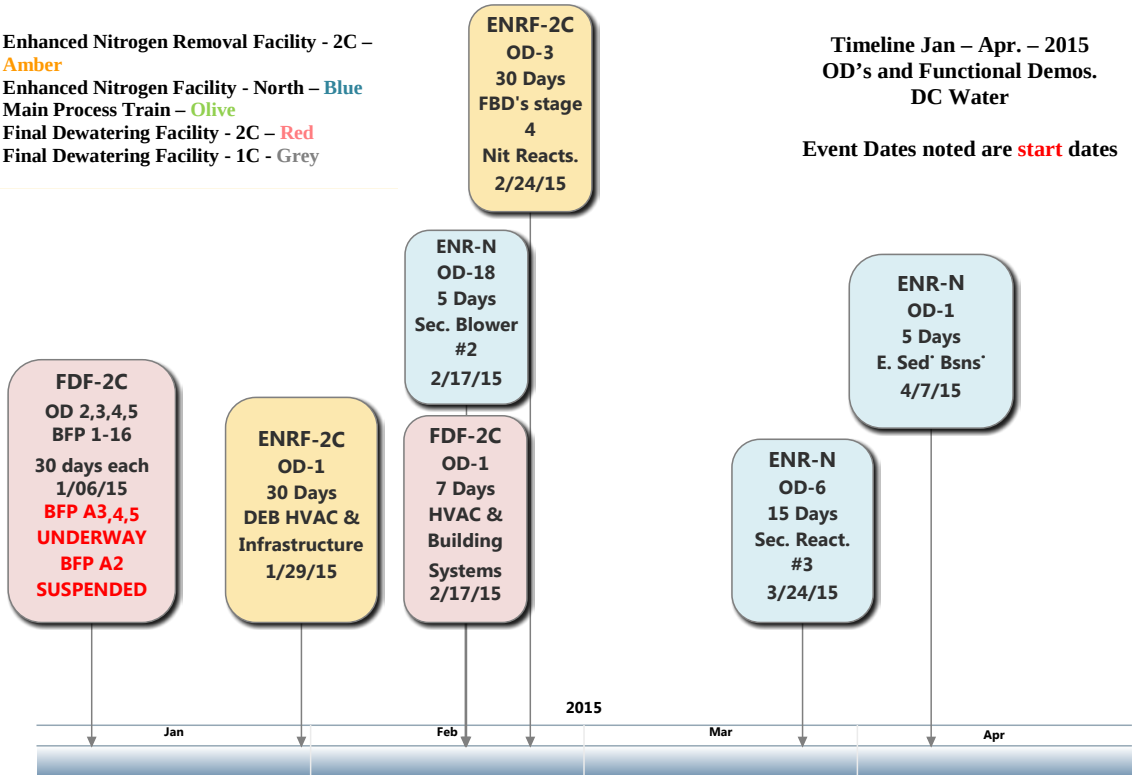
START-UP AND COMMISSIONING UPDATE

As some parts of the nearly $1 billion in construction activities at Blue Plains are winding down, the start-up and commissioning process is moving ahead. This process involves testing the newly built facilities to ensure:

1. the facilities perform as designed,
2. they are completed in accordance with an integrated schedule,
3. interfaces with Blue Plains have been made,
4. capture all new assets,
5. identify and order critical spare parts,
6. develop standard operating procedures, and
7. train personnel to take over the new facilities.

Operational Demonstrations:

One part of the construction checkout process is called the Operational Demonstration (OD). The OD process provides a platform for the contractor and DC Water to prove out the newly constructed process under the various design conditions which can last from 5 days to 1 year. Following is the three month OD look-ahead for 2015.



The Digested Sludge Dewatering Belt Filter Press Operational Demonstration for Final Dewatering Facility Second Contract is underway for three out of the sixteen belt filter presses. Additionally, Secondary Blower #2 that was rehabilitated under the Enhanced Nitrogen Removal North Contract is being prepared to start its Operational Demonstration targeted for February 17th.

OPERATIONAL DEMONSTRATION: Belt Filter Press (OD 2)

- The belt filter presses dewater the CAMBI/Digested sludge to remove excess water prior to disposal to reduce waste sludge volume and subsequently sludge disposal costs. The belt filter presses have been started up to accomodate the processing the blended waste primary, secondary, nitrogen waste sludges passing through the CAMBI/Digested sludge
- Three belt filter presses (BFP)(A3, A4, and A5) are under operational demonstrations. Upon performing a belt tracking resolution by the vendor, BFP A2 shall also undergo operational demonstration.

OPERATIONAL DEMONSTRATION PREPARATION: Secondary Blower #2 (OD 18)

- Each of the 6 secondary blowers that provides air to the secondary biological reactors that removes BOD from the wastewater are being rehabilitated in order to improve blower reliability, performance, and energy economics.
- Blower #2 has been rehabilitated to improve performance and efficiency and is being prepared for operational demonstraiton targeted to commence on February 17th.

Secondary Reactor #3, as was Secondary Reactor #4, is being upgraded to improve secondary treatment by improving the tanks aeration system and flow pattern. Upgrade included modifications to the aeration equipment (diffusers, flow meters, etc.) effluent weirs, and tank configuration. It should be noted that due to lessons learned while upgrading Secondary Reactor #4, the time that will be required to complete the upgrades for this reactor will be approximately 6 – 8 weeks less.

Training:

Successful operation of the new facilities will require significant training of operations and maintenance employees on new processes, procedures and equipment. We are also continuously working with Human Capital Management with the Cornerstone Training program to schedule and track employee training.

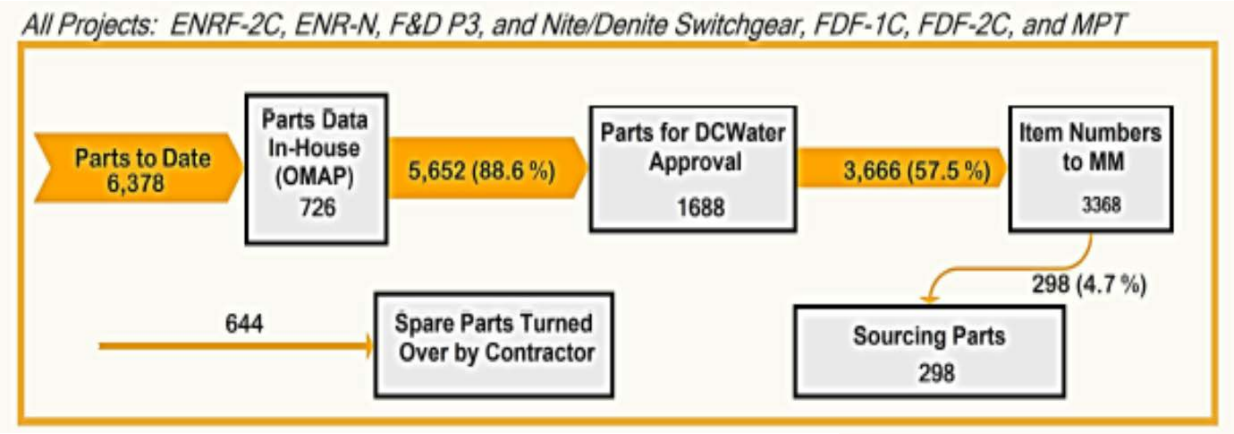
Training completed from December 12, 2014 – January, 2014:

- 832 hours of vendor training were completed by DC Water personnel.
- 306 hours of other required training were completed by DC Water personnel.

Asset Integration:

The process of asset integration involves capturing and identifying over 15,000 unique assets associated with the new projects coming on-line. This is done to facilitate ordering of critical spare parts through Maximo, identify qualified vendors, and to develop standard operating procedures. Efforts up through the month of Mid-January 2015 include:

- Asset attributes based on approved service manuals continue to be logged into the Maximo maintenance program,
- Working with Materials Management (MM) to identify vendors for critical spare parts.
- Parts work flow is as follows:

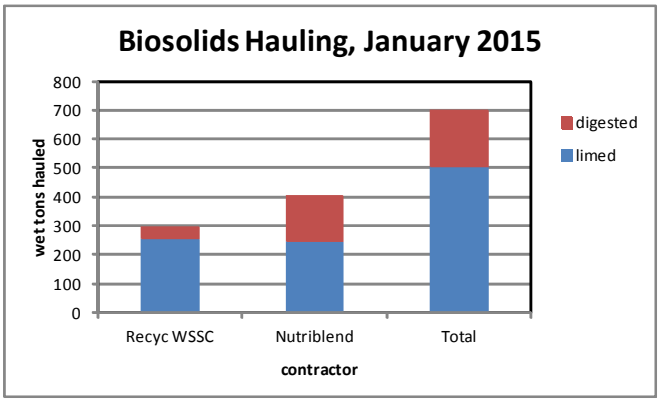


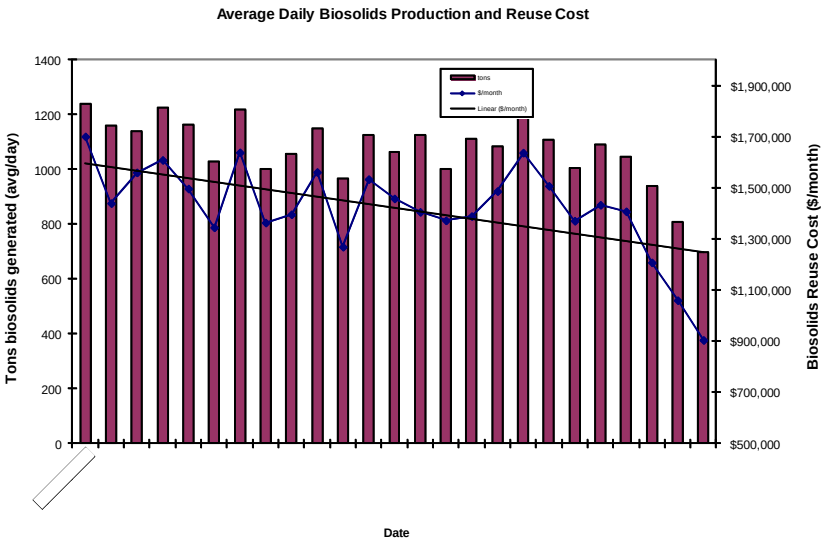
Project Acronym Key:
ENRF-2C: Enhanced Nitrogen Removal Facility 2nd Contract
ENR-N: Enhanced Nitrogen Removal – North
F&D P3: Filtration and Disinfection Electrical Upgrades Phase 3
Nite/Denite Switchgear: Nitrification/Denitrification Electrical Upgrades
FDF-1C: Final Dewatering Facility 1st Contract
FDF-2C: Final Dewatering Facility 2nd Contract
MPT: Main Process Train

BLUE PLAINS RESOURCE RECOVERY REPORT

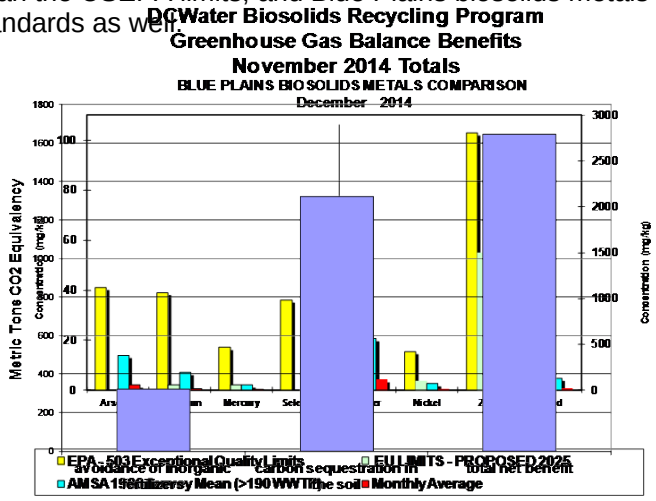
In January, biosolids hauling averaged 700 wet tons per day (wtpd). Of this total, 504 wtpd were lime stabilized Class B, and 197 wtpd (28%) were digested. The graph below shows the total hauling by contractor for the month of January. The average percent solids for the unlimed cake was 27.5%, and for digested material was 29.5% The average lime dose for the Class B biosolids was 23.4%. At the end of January the Cumberland County storage pad had approximately 21,000 tons, Cedarville lagoon had approximately11,822 tons of Blue Plains biosolids (~30,000 tons capacity), and Fauquier lagoon had 800 tons. In addition, 210 tons went to the McGill compost facility.

Please note the drop in biosolids management costs (second graph below, right vertical axis) due to the reduction in solids production since digesters came on line, and also due to the drop in fuel costs. In January, diesel prices averaged $3.19/gallon and with the contractual fuel surcharge the weighted average biosolids reuse cost in January for the two contracts (DC Water and WSSC) was $41.71/wet ton. For comparison, in January 2014 the average diesel price was $4.07/gal and the average contract cost was $44.13/wet ton.





The graphs below show the EPA regulated heavy metals in the Blue Plains biosolids for the month of December 2014. As can be seen in the graphs, the Blue Plains levels are considerably below the regulated exceptional quality limits, the national average levels surveyed in 1996, and the European Union (EU) limits. The EU limits are more conservative than the USEPA limits, and Blue Plains biosolids metals content is lower than the EU standards as well.



January Highlights

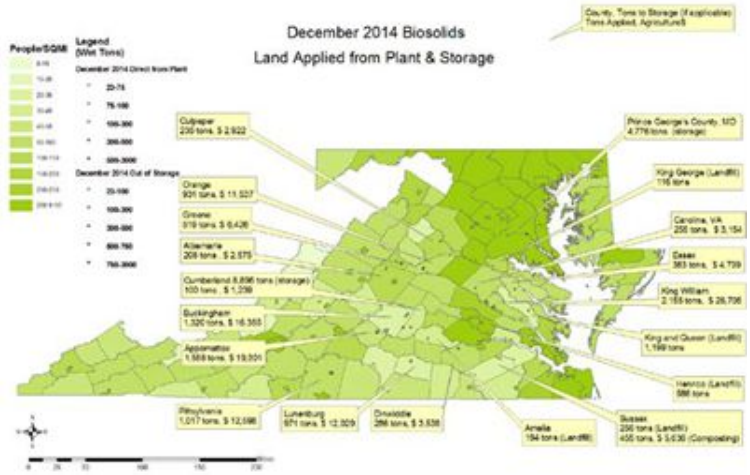
Maryland Environmental Services, the DC Water contractor that provides inspection services for the biosolids land application program, also maintains an incident database to track issues and analyze for trends. Please see below the summary of incidents for calendar year 2014. Of significant note are the total number of incidents (20) and those related to odors (3) for the year. Both of these represent a reduction from calendar year 2013 (33% and 50% respectively), and represent remarkably low totals, considering that the program moved 378,377 wet tons of biosolids, with approximately 17,000 truck loads.

TOTAL INCIDENTS NOTED BY MES STAFF
DURING THE PERIOD JANUARY 1, 2014 THROUGH DECEMBER 31 , 2014

INCIDENT TYPE	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	TOTALS
Odors Noted by MES Inspector	0	0	0	0	0	0	0	0	0	0	0	0	0
Odor Complaint From Public	1	0	0	0	0	0	1	0	0	0	1	0	3
Odor Noted by Contractor	0	0	0	0	0	0	1	0	0	0	0	0	1
Overturned Trailers	0	1	0	2	0	0	0	0	0	0	0	0	3
Truck/Equipment Malfunctions	0	0	0	0	0	0	0	0	0	0	0	0	0
Vehicle Accident	0	0	0	1	0	0	0	2	0	0	0	1	4
Contractor /Field Management Issues	0	0	0	1	0	0		0	0	1	0	0	2
Biosolids pH/Treatment/Quality	0	0	0	2	0	0	0	0	1	0	0	0	3
Biosolids Spills	0	0	0	0	1	0	0	1	1	0	0	0	3
General Complaint	1	0	0	0	0	0	0	0	0	0	0	0	1
Informational Requests/ Inquiries from the Public	0	0	0	0	0	0	0	0	0	0	0	0	0
Biosolids Dragout onto Public Roadways	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED NUMBER OF ONE WAY TRUCK TRIPS *=	1,610	1,534	1,749	2,269	2,024	1,850	1,738	1,523	1,641	1,576	1,481	N/A	18,994
TOTAL INCIDENTS =	2	1	0	6	1	0	2	3	2	1	1	1	20

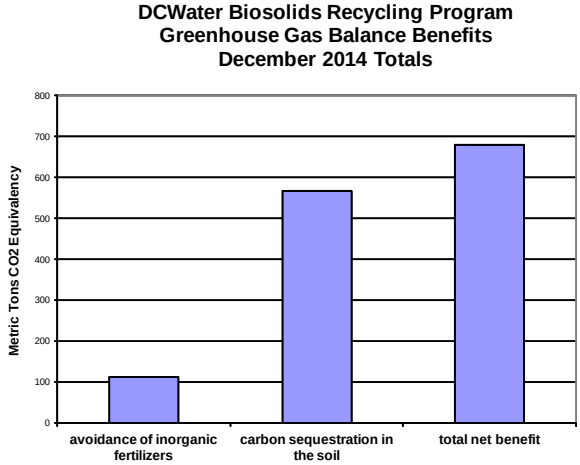
* Estimated Number of One-way Truck Trips = (Number of Trips Direct From the Plant) + (Tonnage Removed Out From Storage / 24 Tons per Truckload)
N/A = This data not available at this time

Map of Blue Plains Biosolids Applications and Agricultural $'s for December 2014



Environmental Benefits

The quantity land applied in December coming directly from the plant and from storage facilities equaled 8,040 tons. Taking into account the fuel required to transport biosolids to the field, the net benefit of the land applied material is 679 metric tons CO_2 equivalent avoided emissions. This is equivalent to taking 1,382,419 car miles off the road in the month of December (assumes 20 mpg, 19.4 lb CO_2 equivalent emissions/gallon gas – EPA estimate). The cumulative total avoided carbon emission since December, 2006 is 136,374 metric tons CO_2 equivalent.



Clean Water Quality and Technology

The Clean Water Quality and Technology department includes research and development, pretreatment and laboratory programs.

Research and Development Program

Events:

- **IWA Specialty conference - Global Challenges: Sustainable Wastewater Treatment and Resource Recovery, Kathmandu, Nepal.** More than 350 delegates from 37 countries attended the conference, which was praised by many as one of the best they have attended because of its strong technical program, timely and topical workshops, lively discussions and opportunities to network in a historic and picturesque location. One-third of the submitted abstracts were selected for platform presentations. The 23 technical sessions, 3 utility forums, 4 plenary sessions, 4 poster sessions, 5 workshops, exhibition and technical tour provided a unique opportunity for a healthy discussion among delegates.

DC Water lead overall conference program including general opening and closing sessions, utility forums and workshops. Here are highlights of DC Water contributions,

(1) 12 technical papers were presented from DC Water and its collaborating universities and utilities.
(2) Chaired conference closing session, two workshops, one utility forums and three technical sessions
(3) A group of DC Water employees including Dr. Bipin Pathak, and Dr. Sudhir Murthy were heavily involved in organizing and steering this conference since the conceptual proposal preparation in early 2013.
(4) Won the US National Science Foundation (NSF) travel grant of $50,000, joint work with Columbia University. This fellowship helped to support travel costs for professors and interns from our partnering universities
(5) Received $9,000 National Science Foundation (NSF) travel grant for DC Water employees that covers registration, airfare, and accommodation costs to attend this conference and workshop.

The importance of the conference for the host country was obvious from its inauguration by the President of Nepal Dr. Ram Baran Yadav, and the attendance by ministers, secretaries and other high ranking officials from the government of Nepal. The global importance of the conference was illustrated by the presence of IWA President Professor Helmut Kroiss as well as WEF President Ed McCormick who not only attended the entire conference but actively participated in it by delivering keynote presentations in plenary sessions. NRR Chair and IWA Board Member Dr. Sudhir Murthy summarized why Nepal was selected as the conference venue. He said the NRR Specialist Group made a special effort to host this conference in a part of the world where real change mattered and could happen.

An article by IWA President Professor Kroiss dealing largely with the Kathmandu conference can be found in Water 21 (IWA Magazine) December 2014. WEF President Ed McCormick's article about the conference is available on WEF highlights.

- Dr. Chris Brouckaert from University of KwaZulu-Natal, South Africa came to visit the research and development facilities at Blue Plains. Dr. Brouckaert is specialized in modeling chemical and physical processes for municipal and industrial wastes. He is one of the pioneers who developed accurate models that can predict pH in complex wastewaters. The objective of his visit was to establish a collaboration effort on modeling anaerobic digestion processes, iron chemistry, gas transfer and pH where our research at Blue Plains can help develop and improve existing process models.

- A group from the research team led by Dr. Bipin Pathak carried out a demonstration using a lab-scale module to teach young students at Georgetown Day School about the basics of wastewater treatment. This is part of the sewer science project organized by external affairs. Approximately 45 students from the 7th grade attended the demonstration.

Blue Plains Pretreatment Program

The Blue Plains Pretreatment Program staff of two manages the Industrial Pretreatment Program, including temporary dischargers from construction activities, as well as the Hauled Waste Program. Additional responsibilities include providing specialized sampling and program management support for the Blue Plains NPDES permit and facilitating the quarterly Blue Plains Storm Water Committee meetings. Pretreatment staff has also been assisting with laboratory services this month for the biosolids digester start-up.

Industrial Pretreatment Program

DC Water currently manages fifteen (15) Significant Industrial User (SIU) permits and sixteen (16) Non-Significant Industrial User (NSIU) permits. One NSIU permit was renewed this month for IBM's groundwater remediation facility. The permit fee was collected prior to issuance. Semi-annual compliance reports have been received by all SIUs for the July to December 2014 period. All SIUs and permitted IUs are currently in compliance with discharge standards. One non-permitted facility, Adams Row Condo, submitted a second set of sample results for their storm water management vault discharge this month, as required by the NOV issued in September. Results still exceed the EPA gas/vapor toxicity discharge screening level, so the NOV requires submittal of a preliminary treatment system design and wastewater discharge permit application, due in February 2015.

DC Water currently manages 57 Temporary Discharge Authorization (TDA) permits, primarily for construction site discharges of groundwater and/or surface runoff in the combined sewer area. No new TDA permits were issued this month. DC Water conducted compliance monitoring at one TDA site this month at the American University East Campus construction on Nebraska Ave., NW (TDA 0714-1004) on December 17, 2014. The discharge mercury concentration was 0.003 mg/L, which is in violation of the mercury limit of <0.001 mg/L. A Notice of Violation was issued to Skanska for the mercury violation and required follow-up monitoring to include weekly monitoring for mercury. Self-monitoring reports for other TDA permits were reviewed. All other TDA discharges are currently in compliance with pretreatment standards.

Hauled Waste Program

The hauled waste program currently has sixteen (16) permitted haulers authorized to discharge domestic septage, portable toilet waste, grease trap waste, groundwater or surface runoff, and other types of waste, if approved in advance and have been characterized and meet pretreatment standards. One waste hauler permit, Magnolia Plumbing, was renewed this month. DC Water collected fees from eight waste haulers this month, including those on a monthly payment plan option.

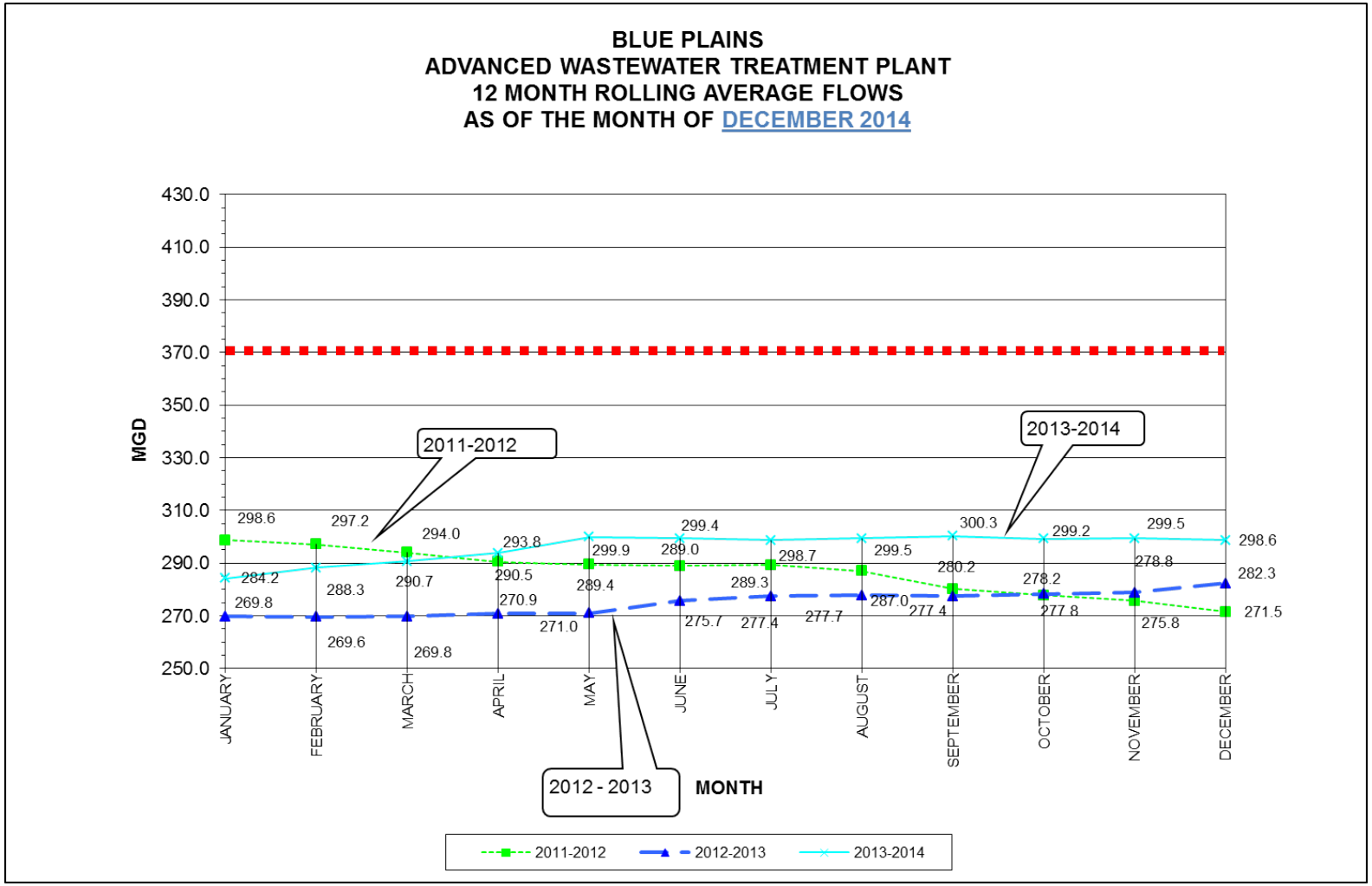
DC Water received 292 hauled waste loads (824,932 gallons) from permitted haulers this month. Manifest forms from each truck entering the plant are collected by the security guards and picked up daily by Pretreatment staff. Data is entered into an Excel spreadsheet to track the volume and type of loads being discharged daily and the results of sampling. Two random hauled waste samples were collected this month. One waste hauler, Stillwater Septic, had a petroleum oil and grease concentration of 582 mg/L, which was in violation of the petroleum oil and grease limit of 100 mg/L. A Notice of Violation is being prepared.

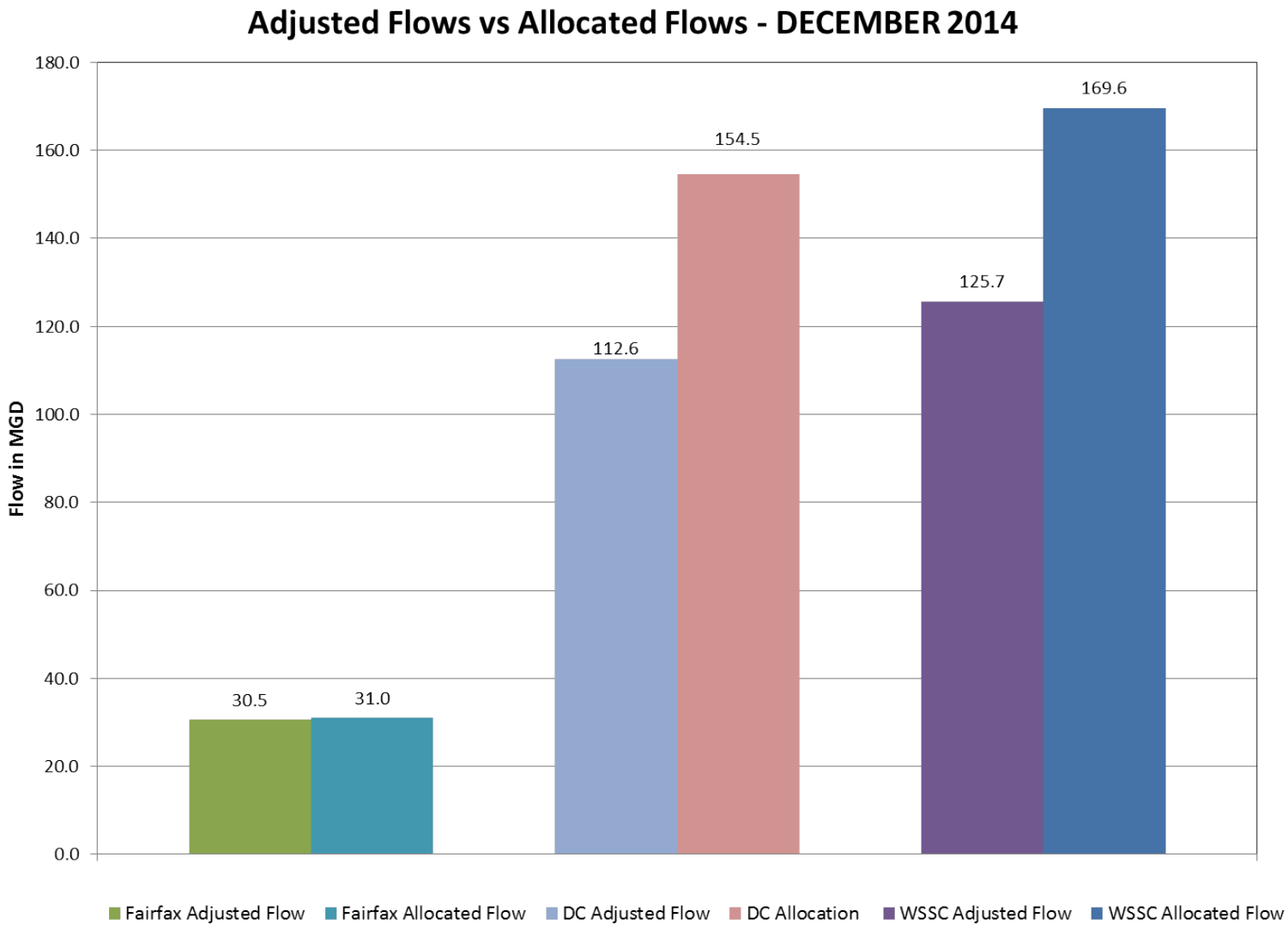
NPDES Permit Sampling

Pretreatment staff collected quarterly influent, effluent (outfall 002), and biosolids samples for local limit parameters and annual priority pollutants on outfall 002. Sampling included low-level influent mercury using clean sampling techniques. Pretreatment staff also collected one dry weather 24-hour composite sample at outfall 002 this month for low-level PCBs.

Department of Wastewater Treatment - Main Laboratory

The **DWT Main Laboratory** conducts analyses on Blue Plains effluent for NPDES Permit requirements, as well as on biosolids, pretreatment samples, storm water runoff, and process samples, on a daily basis, 365 days a year. The laboratory currently analyzes approximately 2,800 samples a month and conducts approximately 8,000 analyses, including Total Suspended Solids, Volatile Suspended Solids, Total and Volatile Solids, Ammonia Nitrogen, Nitrite and Nitrate Nitrogen, Total, Soluble, and Ortho Phosphorus, Total and Soluble Kjeldahl Nitrogen, Carbonaceous Biochemical Oxygen Demand, Chemical Oxygen Demand, Total Alkalinity and Hardness, and Fecal Coliform and E. Coli microbiological testing.
The **DWT Laboratory** assists the **Department of Sewer Services** on a regular basis conducting microbiological analysis of water samples for E. Coli bacteria.
The **DWT Laboratory** also assists the **Biosolids Division** with ongoing Odor Control and Lime Stabilization studies, as well as continued pH monitoring of biosolids for 40 CFR 503 Pathogen and Vector Attraction Reduction requirements.
The **DWT Laboratory** also participates in the **WWOA Executive Board.**
This month, the **DWT Laboratory** continued analysis of samples for the **Biosolids Division** related to DCWater's **Class A Biosolids Certification** project, as well as analysis of digester samples for the new **Cambi Thermal Hydrolysis Digestion facility**.


BLUE PLAINS
ADVANCED WASTEWATER TREATMENT PLANT
12 MONTH ROLLING AVERAGE FLOWS
AS OF THE MONTH OF DECEMBER 2014
MGD
430.0
410.0
390.0
370.0
350.0
330.0
310.0
290.0
270.0
250.0
2011-2012
2013-2014
2012 - 2013
MONTH
JANUARY
FEBRUARY
MARCH
APRIL
MAY
JUNE
JULY
AUGUST
SEPTEMBER
OCTOBER
NOVEMBER
DECEMBER
298.6
297.2
294.0
290.5
299.9
289.0
298.7
299.5
280.2
278.2
278.8
271.5
284.2
288.3
290.7
293.8
299.4
300.3
299.2
299.5
298.6
269.8
269.6
269.8
270.9
271.0
275.7
277.4
277.7
287.0
277.4
278.2
277.8
275.8
282.3
289.4
289.3
2011-2012
2012-2013
2013-2014


Adjusted Flows vs Allocated Flows - DECEMBER 2014
Flow in MGD
180.0
160.0
140.0
120.0
100.0
80.0
60.0
40.0
20.0
0.0
30.5
31.0
112.6
154.5
125.7
169.6
Fairfax Adjusted Flow
Fairfax Allocated Flow
DC Adjusted Flow
DC Allocation
WSSC Adjusted Flow
WSSC Allocated Flow

Potomac Interceptor Long-Term Odor Abatement
Status Report January 2015

Project Description: This project provides for the long-term abatement of odors generated by the Potomac Interceptor by constructing six ventilation buildings along the main sections of the sewer. The six sites are located in the District of Columbia (Site 1995), Montgomery County, MD (Sites 4, 17 and 27), Fairfax County (Site 31) and Loudoun County (Site 46), VA. The constructed system draws gases from the sewer by vacuum, treats the gas stream with activated carbon and discharges the treated air to the atmosphere.

Summary Status:

General

Construction at the DC and three Maryland sites is substantially complete. Construction at the two Virginia sites is ongoing.

DC Site (Site 1995)

Obstruction in odorous air pipe caused by standing water resolved. Facility running.

Maryland Sites

Site 4 (Little Falls PS) – Construction complete. Facility is running.

Site 17 (Beltway) – Construction complete. Facility is running.

Site 27 (Old Angler's Inn) – Construction substantially complete. The counteractant delivery system is being further upgraded and will be put into service for testing in February 2015 upon completion of hard-wiring. Exhaust-stack modifications will be performed in March 2015. Investigations into sources of odor complaints continue.

Virginia Sites

Site 31 (Fairfax) – Under Construction, 82% complete. Coordination with Verizon is ongoing for site service. Dominion to start permanent power installation on February 6, 2015. Odorous Air (OA) tank is installed; other equipment on site. OA pipe wrapping/joining ongoing in building. Mechanical and electrical installations ongoing in building. Exterior stone work ongoing. Manual checkout and startup projected for 3/30/15 contingent on delivery of power by Dominion by 3/4/15. Full auto-mode operation demonstration test start date is to be determined (TBD) based on delivery and installation dates for air handling unit.

Site 46 (Loudoun) – Under Construction, 95% complete. Permanent power installation is complete. Verizon has installed the cable to the phone board in the building. Electrical interior work ongoing with PLC and transformer set. Interior plumbing is ongoing. Manual checkout and startup began 2/2/2015. Full auto mode operational demonstration test projected to start by 4/1/15.

Design & Construction Activities	Projected		Actual		Status
	Start	End	Start	End	
Fairfax County (Site 31) Building Closure	8/15/12	9/12/14	8/26/13	9/20/14	
Place in operation, Site 31 (Fairfax)	TBD				Delay in Permanent Power completion and delivery of air handling unit.
Place in operation, Site 46 (Loudoun)	4/01/15				Manual operation planned for February. Full auto-mode operation projected to start by 4/1/15.

DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY
BOARD OF DIRECTORS CONTRACTOR FACT SHEET

ACTION REQUESTED

GOODS AND SERVICES CONTRACT

Electrical Power Distribution Equipment
Joint Use

Approval to exercise option year two (2) of the electrical power distribution equipment contract in the amount of $2,960,000.00.

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME:	SUBS:	PARTICIPATION:
M. C. Dean, Inc. 22461 Shaw Road Dulles, VA 20166	N/A	N/A

DESCRIPTION AND PURPOSE

Base Year Contract Value:	$2,490,000.00
Contract Base Period:	03-26-2013 – 03-25-2014
Number of Option Years:	4 years
Option Year (1) Value:	$2,490,000.00
Option Year (1) Dates:	03-26-2014 – 03-25-2015
Option Year (2) Value:	$2,960,000.00
Option Year (2) Dates	03-26-2015 – 03-25-2016

Purpose of the Contract:

DC Water Maintenance Services and Distribution Conveyance Systems departments have a continuing need for annual maintenance of high and low voltage switchgear throughout DC Water facilities.

Contract Scope:

To provide supervisory personnel and technicians, as well as materials and supplies, needed for the maintenance of high and low voltage switchgear to ensure reliable electric power for the overall operation of DC Water facilities.

Note:

This contract is a shared contract between two departments; The Department of Maintenance Services (DMS) and the Department of Distribution Conveyance Systems (DDCS). Each user department has its own separate funding.

Spending Previous Year:

Cumulative Contract Value:	03-26-2013 to 03-25-2015 - $4,980,000.00
Cumulative Contract Spending:	03-26-2013 to 01-30-2015 - $4,369,638.85

Contractor's Past Performance:

The contractor's past performance has been satisfactory.

PROCUREMENT INFORMATION

Contract Type:	Fixed Price	**Award Based On:**	Best Value
Commodity:	Service	**Contract Number:**	WAS-12-029-AA-JR
Contractor Market:	Open Market with Preference Points for Local Small Business Enterprise		

Joint-Use (Direct)

BUDGET INFORMATION

Funding:	Operating	**Department:**	Maintenance Services
Service Area:	Blue Plains	**Department Head:**	Anthony Mack

ESTIMATED USER SHARE INFORMATION

User	Share %*	Dollar Amount
District of Columbia	41.63%	$ 786,467.97
Washington Suburban Sanitary Commission	42.96%	$ 811,594.13
Fairfax County	10.57%	$ 199,686.92
Loudoun County	4.25%	$ 80,290.39
Potomac Interceptor	0.59%	$ 11,146.20
TOTAL ESTIMATED DOLLAR AMOUNT	100.00%	$ 1,889,185.60

*NOTE: Actual usage and cost by facility (either joint-use or non-joint use) varies each fiscal year and are charged to IMA participants based on actual costs at joint-use facilities (i.e., Blue Plains, Potomac Pumping Station, etc.). Services provided to non-joint facilities (i.e., Bryant Street Pumping Station) are charged directly to District ratepayers. In prior fiscal years, the majority of services provided under this contract have been for joint use facilities and for indicative purposes; the user shares shown above reflect Blue Plain's usage.

Non-Joint Use

BUDGET INFORMATION

Funding:	Operating	**Department:**	Department of Distribution Conveyance System
Service Area:	Dc Water-wide	**Department Head:**	Charles Sweeney

ESTIMATED USER SHARE INFORMATION

User	Share %	Dollar Amount
District of Columbia	100%	$ 963,000.00
Washington Suburban Sanitary Commission	0%	$ 0.00
Fairfax County	0%	$ 0.00
Loudoun County	0%	$ 0.00
Potomac Interceptor	0%	$ 0.00
TOTAL ESTIMATED DOLLAR AMOUNT	100.00%	$ 963,000.00

2/6/15

Dan Bae — Date
Director of Procurement

2/9/2015

Gail Alexander- Reeves — Date
Director of Budget

2/11/15

Walter Bailey — Date
Assistant General Manager, Blue Plains

2/11/15

Charles Kiely — Date
Assistant General Manager, Customer Care Operations

George S. Hawkins — Date
General Manager

DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY
BOARD OF DIRECTORS CONTRACTOR FACT SHEET

ACTION REQUESTED

GOODS AND SERVICES CONTRACT OPTION YEAR TWO (2):

Supply and Delivery of Dry Cationic Polyacrylamide Flocculant (DPAM)
Joint Use (Direct)

Approval to execute option year two (2 of the contract for the supply and delivery of dry cationic polyacrylamide flocculant (DPAM) in the amount of $753,600.00

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME:	SUBS:	PARTICIPATION:
Polydyne, Inc. One Chemical Plant Road Riceboro, GA 31323	N/A	N/A

DESCRIPTION AND PURPOSE

Original Contract Value:	$601,800.00
Original Contract Dates:	03-04-2013—03-03-2014
No. of Option Years in Contract:	2
Option Year (1) Value:	$601,800.00
Option Year (1) Dates:	03-04-2014 – 03-03-2015
Option Year (2) Values:	$753,600.00
Option Year (2) Dates:	03-04-2015 – 03-03-2016

Purpose of the Contract:

The purpose of this contract is to ensure that the District of Columbia Water and Sewer Authority (DC Water) is able to meet its National Pollutant Discharge Elimination Systems (NPDES) permits requirements and other environmental codes and standards.

Contract Scope:

The scope of this contract is for the supply and delivery of secondary-clarifier polymer for the collected wastewater at the Blue Plains Advanced Wastewater Treatment Facility

Spending Previous Year:

Cumulative Contract Value:	03-04-2013 to 03-04-2015—$1,203,600.00
Cumulative Contract Spending:	03-04-2013 to 02-03-2015—$ 958,655.60

Contractor's Past Performance:

The contractor's past performance has been satisfactory.

NOTE:

The current price of dry cationic polyacrylamide flocculant is 1.180 per pound. For option year two (2) Polydyne will maintain their current price of $1.180 per pound.

In the past representatives from Fairfax County Water Authority and the Washington Suburban Sanitary Commission were contacted for the purpose of price comparison, it was found that neither agency uses dry cationic polyacrylamide flocculant (DPAM) as a secondary clarifying agent in wastewater processing.

PROCUREMENT INFORMATION

Contract Type:	Fixed Price Requirements Contract	**Award Based On:**	Lowest Responsive and Responsible Bidder
Commodity:	Goods and Services	**Contract Number:**	WAS-13-013-AA-RE
Contractor Market:	Open to Pre-Qualified Vendors Based on Field Trials of Samples Submitted		

BUDGET INFORMATION

Funding:	Operating	**Department:**	Wastewater Treatment
Service Area:	Blue Plains AWTF	**Department Head:**	Aklile Tesfaye

ESTIMATED USER SHARE INFORMATION

User	Share %	Dollar Amount
District of Columbia	41.63%	$ 313,723.68
Washington Suburban Sanitary Commission	42.96%	$ 323,746.56
Fairfax County	10.57%	$ 79,655.52
Loudoun County	4.25%	$ 32,028.00
Potomac Interceptor	0.59%	$ 4,446.24
TOTAL ESTIMATED DOLLAR AMOUNT	100.00%	$ 753,600.00

_____, 2/11/15
Dan Bae Date
Director of Procurement

_____, _____
Gail Alexander-Reeves Date
Director of Finance & Budget

_____, 2/12/15
Walter F. Bailey Date
AGM, Blue Plains

_____, _____
George S. Hawkins Date
General Manager

DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY
BOARD OF DIRECTORS CONTRACTOR FACT SHEET

ACTION REQUESTED

GOODS AND SERVICES CONTRACT OPTION

Supply and Delivery of Liquid Sodium Bisulfite
(Joint Use) Direct

Approval to execute option year two (2) of the contract, for the supply and delivery of liquid sodium bisulfite, in the amount of $597,100.00.

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME:	SUBS:	PARTICIPATION:
PVS Chemical Solutions, Inc. 10900 Harper Avenue Detroit, MI 48213	N/A	N/A

DESCRIPTION AND PURPOSE

Original Contract Value:	$588,700.00
Original Contract Dates:	01-10-2013—01-09-2014
No. of Option Years in Contract:	4
Contract Modification Value:	$95,000.00
Contract Modification Dates:	01-10-2014—03-09-2014
Option Year (1) Value:	$560,570.00
Option Year (1) Dates:	03-10-2014—03-09-2015
Option Year (2) Value:	$597,100.00
Option Year (2) Dates:	03-10-2015 – 03-09-2016

Purpose of the Contract:

The purpose of this contract is to ensure that the District of Columbia Water and Sewer Authority Water is able to meet Environmental Protection Agency (EPA) regulations and other environmental codes and standards.

Contract Scope:

The scope of this contract is for the supply and delivery of liquid sodium bisulfite (38% trade) for use in the treatment of collected wastewater at the Blue Plains Advanced Wastewater Treatment Facility.

Spending Previous Year:

Cumulative Contract Value:	01-10-2013 to 03-09-2015—$1,244,270.00
Cumulative Contract Spending:	01-10-2013 to 01-30-2015—$1,239,652.33

Contractor's Past Performance:

The contractor's past performance has been satisfactory.

Note:

The current price of liquid sodium bisulfite (38% trade) is $0.1933 per delivered pound. In accordance with Section E.6 of the contract, Price Escalation/De-escalation Adjustment, the unit will be adjusted up or down based upon the indices price and the change in indices for caustic and sulfur. Based upon the caustic and sulfur indices, the price of liquid sodium bisulfite for option year two (2) is $0.1881 per delivered pound.

PROCUREMENT INFORMATION

Contract Type:	Fixed Price Requirements Contract	**Award Based On:**	Lowest Responsive and Responsible Bidder
Commodity:	Goods and Services	**Contract Number:**	WAS-13-006-AA-RE
Contractor Market:	Open Market with Preference Points for LSBE		

BUDGET INFORMATION

Funding:	Operating	**Department:**	Wastewater Treatment
Service Area:	Blue Plains	**Department Head:**	Aklile Tesfaye

ESTIMATED USER SHARE INFORMATION

User	Share %	Dollar Amount
District of Columbia	41.63%	$248,572.73
Washington Suburban Sanitary Commission	42.96%	$256,514.16
Fairfax County	10.57%	$63,113.47
Loudoun County	4.25%	$25,376.75
Potomac Interceptor	0.59%	$3,522.89
TOTAL ESTIMATED DOLLAR AMOUNT	**100.00%**	**$597,100.00**

2/11/15
Dan Bae Date
Director of Procurement

2/11/15
Gail Alexander-Reeves Date
Director of Budget

2/12/15
Walter F. Bailey Date
Assistant General Manager, Blue Plains

George S. Hawkins Date
General Manager

DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY
BOARD OF DIRECTORS CONTRACTOR FACT SHEET

ACTION REQUESTED

ENGINEERING SERVICES SUPPLEMENTAL AGREEMENT:

Operations and Maintenance Assistance Program IV
(Joint Use)

Approval to execute Supplemental Agreement No. 01 for $1,332,421. The modification exceeds the General Manager's approval authority.

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME:	SUBS:		PARTICIPATION:
PEER Consultants, PC 888 17th Street, NW Suite 850 Washington, DC 20006 (WBE)	AECOM Arlington, VA Delon Hampton & Associates Washington, DC E.B. Advanced, PC Washington, DC	 MBE MBE	 10.88% 12.04% 14.14%

DESCRIPTION AND PURPOSE

Original Contract Value:	$17,987,367.00	
Value of this Supplemental Agreement:	$1,332,421.00	
Cumulative SA Value, including this SA:	$1,332,421.00	
Current Contract Value, Including this SA:	$19,319,788.00	
Original Contract Time:	1825 Days	(5 Years)
Time extension, this SA:	180 Days	
Total SA contract time extension:	180 Days	(6 Months)
Contract Start Date:	06-29-2011	
Contract Completion Date:	12-31-2016	

Purpose of the Contract:
To provide start-up, operations and maintenance engineering services required for the completion of critical projects.

Original Contract Scope:
- Perform program management and process engineering tasks to fulfill EPA-mandated grant requirements.
- Provide equipment maintenance requirements and documentation.
- Provide Standard Operating Procedures revision and updating.
- Provide operability evaluations.

Current Supplemental Agreement Scope:
- Provide parts processing and additional start-up services associated with nine capital construction contracts before turnover of those projects to the operating departments. These contracts that are ongoing or nearing completion require start-up services that include additional preventative maintenance (PM) development, comprising evaluation of functional inspections not addressed in the service manuals, for use as supplements to the manufacturer's recommendations. In addition, run-to-failure alternatives to the manufacturer's recommended PMs in the service manuals will be evaluated for economic viability.

Future Supplemental Agreement Scope:
- A future supplemental agreement may be needed to provide short-term assistance to Materials Management.

PROCUREMENT INFORMATION

Contract Type:	Cost Plus Fixed Fee	**Award Based On:**	Highest Ranking Score
Commodity:	Engineering Services	**Contract Number:**	DCFA#441-WSA
Contractor Market:	Open Market		

BUDGET INFORMATION

Funding:	Capital	**Department:**	Engineering and Technical Services
Service Area:	Wastewater	**Department Head:**	Liliana Maldonado
Project:	BG, BR, BT, EV, XA, BI, E8, E9 and EE		

ESTIMATED USER SHARE INFORMATION

User	Share %	Dollar Amount
District of Columbia	41.22%	$549,224.00
Washington Suburban Sanitary Commission	45.84%	$610,782.00
Fairfax County	8.38%	$111,657.00
Loudoun County & Potomac Interceptor	4.56%	$60,758.00
Total Estimated Dollar Amount	**100.00%**	**$1,332,421.00**

Gail Alexander-Reeves / 2/9/2015
Gail Alexander-Reeves — Date
Director of Budget

Dan Bae / 2/11/15
Dan Bae — Date
Director of Procurement

Leonard R. Benson / 2-10-15
Leonard R. Benson — Date
Chief Engineer

George S. Hawkins / _____
George S. Hawkins — Date
General Manager

DCFA 441 SA 1 OMAP Fact_Sheet 02 09 2015 (3).doc

DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY
BOARD OF DIRECTORS CONTRACTOR FACT SHEET

ACTION REQUESTED

GOODS AND SERVICES CONTRACT:

Solar Power Purchase Agreement (PPA) Project
(Joint Use)

Approval to execute a 20-year contract for solar power purchase at Blue Plains with a not-to-exceed amount of $23,096,108

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME:	SUBS:	PARTICIPATION:
Washington Gas Energy Systems (WGES) 6862 Elm St., Suite 300 McLean, VA 22101	Standard Solar 1355 Piccard Drive, Suite 300 Rockville, MD 20850	

DESCRIPTION AND PURPOSE

Contract Value, not to exceed:	$23,096,108
Contract Time:	7300 Days
Anticipated Contract Start Date:	04-01-2015 (Start of Design and construction) 12-31-2016 (Start of Operations)
Anticipated Contract Completion Date:	12-31-2036
Proposal Opening Date:	11-13-2014

Other firms submitting proposals/qualification statements:

*Ameresco, Inc.	NRG and TectaSolar
Conti and Altus Power America	*SolarCity / groSolar
Distributed Sun LLC	*SunEdison / Pepco Energy Services / Blue Wave Capital
Hanwha QCELLS and Performance Contracting, Inc.	Telamon Corp. / Singleton Electric / RER Energy Group / Geres
Nexamp	

* Asterisk indicates short listed firms.

Purpose of the Contract:

Provide a 20-year contract with an option to renew for 5 years for the purchase of solar power generated at Blue Plains AWTP through the installation of solar panels.

Contract Scope:

- Installation of solar panels over the following areas:
  - East Secondary Sedimentation Basins: 2.49 MW capacity in DC
  - West Secondary Sedimentation Basins: 2.12 MW capacity in DC
  - Dual Purpose Sedimentation Basins: 1.65 MW capacity in DC
  - Nitrification Sedimentation Basins: 4.83 MW capacity in DC
- The schedule for expected power and the guaranteed unit price was provided in the bid documents for every year for the contract duration.

PROCUREMENT INFORMATION

Contract Type:	Fixed Price	**Award Based On:**	Best Value, responsible bidder.
Commodity:	Goods	**Contract Number:**	140100
Contractor Market:	Open Market		

BUDGET INFORMATION

Funding:	Operating	**Department:**	Wastewater Treatment
Service Area:	Blue Plains	**Department Head:**	Aklile Tesfaye

ESTIMATED USER SHARE INFORMATION

User	Share %	Dollar Amount
District of Columbia	41.63%	$9,614,910
Washington Suburban Sanitary Commission	42.96%	$9,922,088
Fairfax County	10.57%	$2,441,259
Loudoun County	4.25%	$ 981,584
Others (PI)	0.59%	$ 136,267
TOTAL ESTIMATED DOLLAR AMOUNT	100.00%	$ 23,096,108

2/13/15
Dan Bae Date
Director of Procurement

for 2/13/15
Gail Alexander Reeves Date
Director of Finance & Budget

2/13/15
Walter Bailey Date
AGM, Wastewater Treatment

George S. Hawkins Date
General Manager

140100 Fact Sheet_Solar PPA - Draft.doc

DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY
BOARD OF DIRECTORS CONTRACTOR FACT SHEET

ACTION REQUESTED

GOODS AND SERVICES CONTRACT MODIFICATION:

Repair of Industrial Pumps
(Joint Use - Direct)

Approval to execute a modification to add funding in the amount of $312,500.00.

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME:	SUBS:	PARTICIPATION:
M & M Electric Motor Repair, Inc. 205 Bucheimer Road Frederick, Maryland 21701 LSBE	N/A	100%

DESCRIPTION AND PURPOSE

Original Contract Value:	$610,000.00
Original Contract Dates:	04-23-2009—04-22-2010
No. of Option Years in Contract:	4
Option Year (1-4) Values:	$2,032,873.00
Option Year (1-4) Dates:	06-22-2010—06-21-2014
Contract Modification Value:	$2,123,890.12
Contract Modification Dates:	10-01-2009—09-30-2015
This Contract Modification Value:	$312,500.00
This Contract Modification Dates:	01-01-2015- 09-30-2015

Purpose of the Contract:

To contract for services to repair and maintain various large industrial pumps for the District of Columbia Water and Sewer Authority's (DC Water) Departments of Maintenance Services (DMS) and Water/Sewer Pump Maintenance (WSPM).

Contract Scope:

To provide all labor, materials, tools, equipment, and transportation necessary to repair, replace, or rebuild pumping equipment at DC Water's water and wastewater facilities.

Spending Previous Years:

Cumulative Contract Value:	04-23-2009 to 09-30-2015 —$4,766,763.12
Cumulative Contract Spending:	04-23-2009 to 12-31-2014—$4,274,199.94

Contractor's Past Performance:

The contractor's past performance has been satisfactory.

PROCUREMENT INFORMATION

Contract Type:	Fixed Price	**Award Based On:**	Lowest responsive bid by a responsible contractor
Commodity:	Goods and Services	**Contract Number:**	WAS-09-012-AA-GA
Contractor Market:	Open Market with preference for LBE and LSBE		

BUDGET INFORMATION

Funding:	Capital	**Departments:**	Maintenance Services (DMS),
Service Area:	Various	**Department Heads:**	Anthony Mack
Project:	EP6C701		

ESTIMATED USER SHARE INFORMATION

User	Share %	Dollar Amount
District of Columbia	41.22%	$ 128,812.50
Washington Suburban Sanitary Commission	45.84%	$ 143,250.50
Fairfax County	8.38%	$ 26,187.50
Loudoun County & Potomac Interceptor	3.73%	$11,656 .25
Potomac Interceptor	0.83%	$2,593.75
TOTAL ESTIMATED DOLLAR AMOUNT	100.00%	$ 312,500.00

NOTE: Actual usage and cost by facility (either joint-use or non-joint use) varies each fiscal year and are charged to IMA participants based on actual costs at joint-use facilities (i.e., Blue Plains, Potomac Pumping Station, etc.). Services provided to non-joint facilities (i.e., Bryant Street Pumping Station) are charged directly to District ratepayers. In prior fiscal years, the majority of services provided under this contract have been for joint use facilities and for indicative purposes; the user shares shown above reflect Blue Plain's usage.

_____, 2/6/15
Dan Bae Date
Director of Procurement

_____, 2/9/2015
Gail Alexander-Reeves Date
Acting Director of Finance & Budget

_____, 2/12/15
Walter Bailey Date
Assistant General Manager

_____/_____
George S. Hawkins Date
General Manager

District of Columbia Water and Sewer Authority
George S. Hawkins, General Manager

Briefing on:

DC Clean Rivers Project Quarterly Update

Briefing for:

Environmental Quality & Sewerage Services Committee

February 19, 2015

Agenda

- DC Clean Rivers Projects Implementation Schedule
- Major Accomplishments 2014, fourth quarter
- Schedule
- CIP Budget Status
- FY 2015 Spending Status
- Summary

Cardinal Wuerl prays at a Dec. 12, 2014 Anacostia River Tunnel Boring Machine Naming Ceremony – “Nannie”

Vice President Biden Announces Infrastructure Program and Tours Anacostia River Tunnel mining site on January 16, 2015.

dc clean RIVERS PROJECT

Anacostia River Projects: Implementation on Schedule

2011	2012	2013	2014	2015
CSO 019 $28M *Sept* (Const. Completed Aug 2013)	CSO 007 $5M *Apr* (Const. Completed Feb 2013)	Tingey St Diversion Sewer $17M *July* (Const. Completed Mar 2014)	JBAB Overflow & Diversion $40M *Oct*	Poplar Point PS $53M *Jan*
	M St Diversion Sewers $31M *Mar (Const. Sub. Complete Dec 2014)*	LID @ Various DC Water Facilities $4M *Dec* (Const. Completed Mar 2014)	Main PS $53M *May*	Blue Plains Tunnel PS/ECF $215M *Nov*

Months shown on timeline indicate construction start dates.

dc clean RIVERS PROJECT

= Design

MAJOR ACCOMPLISHMENTS THROUGH FY 2014 QUARTER 4 UPDATE

dc clean RIVERS PROJECT

Division A – Blue Plains Tunnel

Progress at-a-Glance

As of January 1, 2015

Design-Builder: **Traylor-Skanska Jay Dee JV**
Contract Price: $330M Percent Complete: 87%

MPS Protection of Structures
- Protective slabs complete
- Soil mixing complete
- Steel ribs in Tiber Creek sewer complete

$4M completed
$0M remaining

MPS-DS Shaft & Structures
- Tremie slab complete
- CIP liner walls 100% complete
- Vortex structure complete
- Drop pipe complete

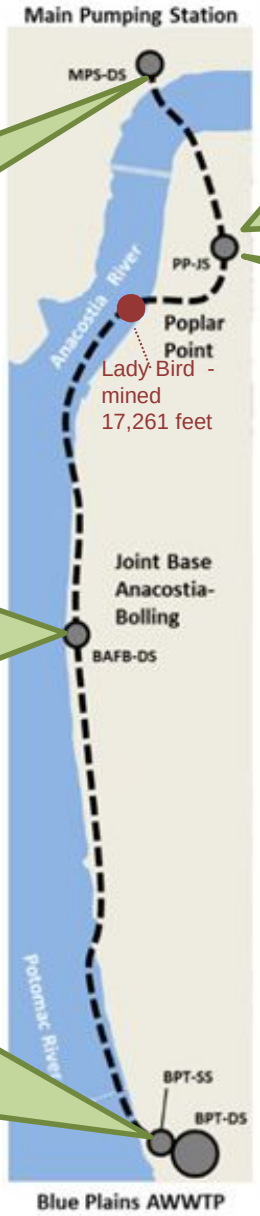
$14M completed to-date
$500K remaining

BAFB-DS Shaft & Structures
- CIP Concrete liner wall complete
- Drop pipe underway
- Vortex and Overflow channel SOE underway

$14M completed to-date
$2M remaining

BPT-DS&SS Shaft & Structures
- BPT-SS CIP concrete liner 100% complete
- BPT-DS Base Slab 100% Complete
- BPT-DS CIP Concrete Liner 88% Complete

$61M completed to-date
$4M remaining



Approach Channel & Surge Chamber
- Surge Chamber and Approach Channel Complete

$12M completed to-date
$250K remaining

PP-JS Shaft & Structures
- Tremie slab complete
- CIP concrete liner complete
- Drop Pipe complete
- Permanent cover and retaining wall complete

$18M completed to-date
$1M remaining

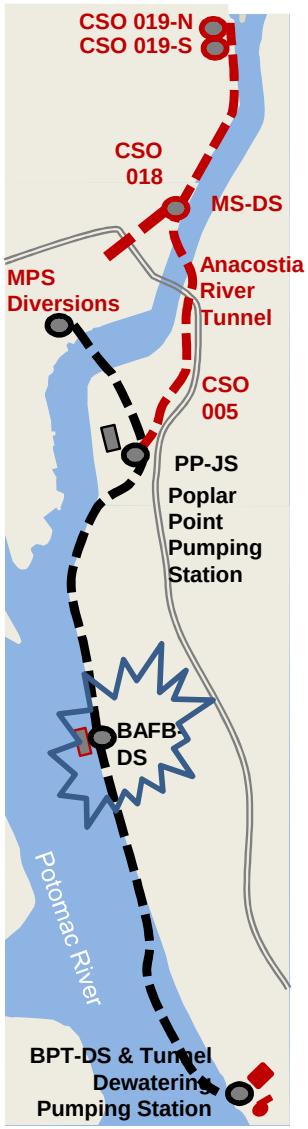
Tunnel Boring Machine & Precast Segments
- TBM On-site assembly 100% complete
- 15,545 LF Mined – 2,587 Rings Installed
- Production casting 99% complete

$30M TBM payment to-date
$0M TBM payment remaining

$84M Tunneling payment to-date
$21M Tunneling remaining

Div D – JBAB Overflow and Diversion Structures

As of January 1, 2015
Design-Builder: **Corman Construction** Contract Price: $40M Construction Percent Complete: 0%



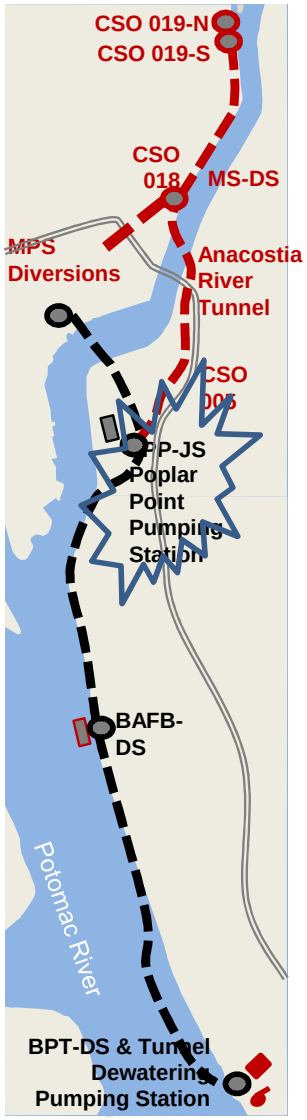
JBAB Diversion Structure is designed to capture flow from the Potomac Outfall Sewers to convey it to the BPAWWTP via BPT. JBAB Overflow Structure will allow overflow to the Anacostia when BPT is at capacity.

- Receiving / Reviewing construction submittals.
- Receiving / Reviewing design submittals.
- Received USACE permit modification for CSO 003 demolition and riverbank restoration.

Div Z - Poplar Point Pumping Station Replacement and Main Outfall Sewers Diversion

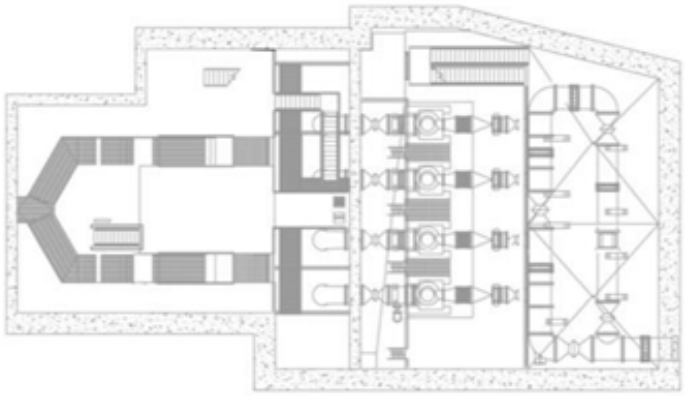
As of January 1, 2015

Contractor: **EE Cruz**
Contract Price: $53.4M Construction Percent Complete 0%



The Poplar Point Pumping Station serves the sewer system on the east side of the Anacostia. It lifts sewage from the Anacostia Main Interceptor up into the outfall sewers for conveyance to Blue Plains.

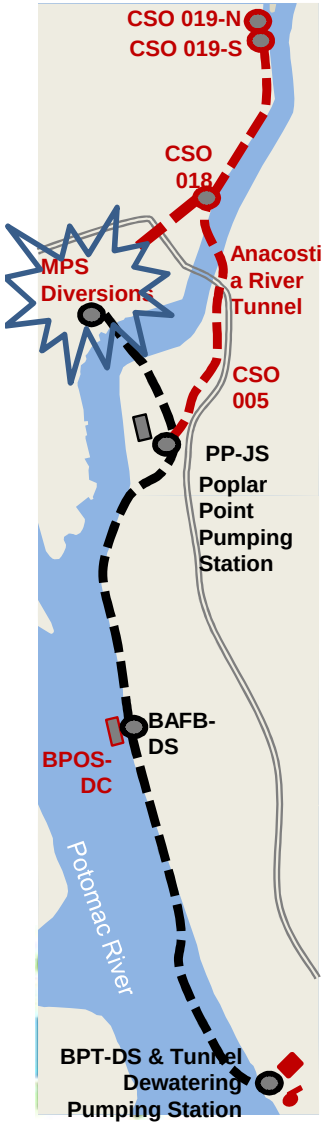
- Awarded Construction Contract on 1/6/2015.
- Issued NTP on 1/15/2015.
- Pre-construction meeting held on 2/3/2015.



Div I – Main Pumping Station (MPS) Diversions

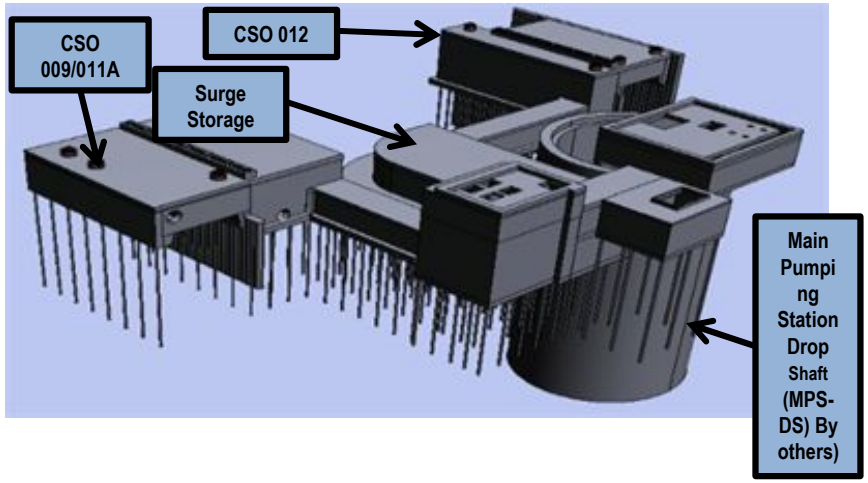
As of January 1, 2015

Design-Builder: **Corman Construction**
Contract Price: $53M Construction Percent Complete: 4%



MPS Diversions intercept flows from Tiber Creek Sewer, Canal Street Sewer and New Jersey Ave Trunk Sewer and redirects them to BPT during wet weather.

- Receiving / Reviewing critical construction submittals.
- Receiving / Reviewing final design submittals.
- Instrumentation installation ongoing
- Target date to start secant pile operation is 3/3/2015.



Div H – Anacostia River Tunnel

Progress at-a-Glance

As of January 1, 2015

Design-Builder: **Impregilo Healy Parsons Joint Venture (IHPJV)**
Contract Price: $253.9M Percent Complete: 34% ($)/ 35% (time)

CSO 019-CSA Shafts & ISCT

- CSO-019S Excavation Complete
- CSO-019S Invert Slab Placed
- CSO-019N Cast-in-Place Liner 50% Complete
- ISCT Canopy Tube Installation Complete
- ISCT Excavation and Installation 14% Complete

$ 13.7M completed to-date
$ 5.1M remaining

CSO 018-CSA Shaft and Structure

- Slurry Wall 17% Complete

$ 0.4M completed to-date
$ 14.8M remaining

M Street CSA Shaft and Site Prep

- Slurry Wall Complete
- Shaft Excavation 3 % Complete

$ 3.7M completed to-date
$ 6.1M remaining

Tunnel Boring Machine & Precast Segments

- TBM Assembly Continues
- Segment Plant Producing Ring Sets (496 Rings Complete)
- TBM Christening: December 12, 2014

$ 21.0M TBM payment to-date
$ 4.0M TBM payment remaining

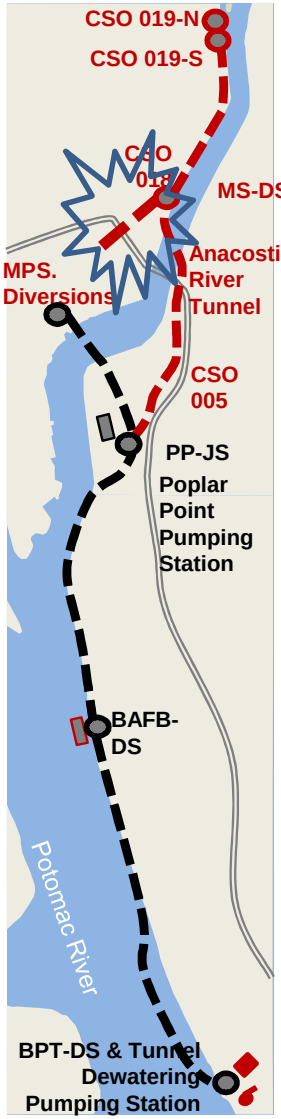
$ 6.7M Segment/Forms payment to-date
$ 11.7M Segments remaining

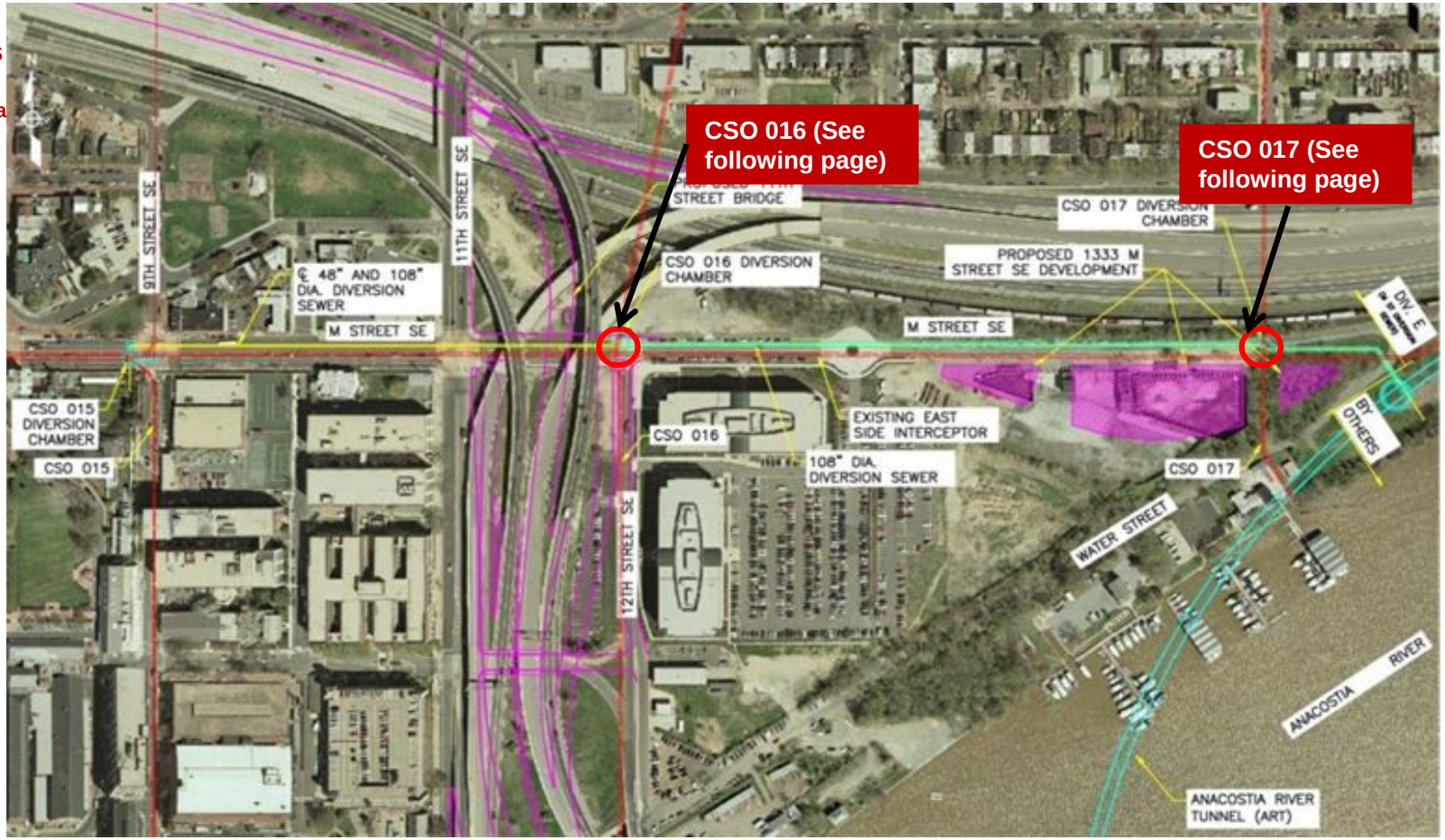
Div E – M Street Diversion Sewer

As of January 1, 2015

Contractor :**Corman Construction**
Contract Price: $32M Construction Percent Complete: 98%

M Street Diversion Sewer consolidates flow from CSOs 015, 016 and 017, diverting it to the ART via a series of diversion sewers.





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Div E – M Street Diversion Sewer

- Project is substantially complete (Accepted Beneficial Occupancy on 12/30/2014).
- Site restoration work remains (winter weather permitting). Anticipated completion Spring 2015.


CSO 016 Restoration


M Street Median Restoration

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Div P – First Street Tunnel

Progress at-a-Glance

As of January 2nd, 2015

Design-Builder: **Skanska Jay Dee JV**
Contract Price: $157.6M Percent Complete: 36.9%

CS-MS Base Slab & Perm. Liner

- Poured Base Slab
- Poured Permanent Liner Lift 1

$0.6M completed to-date
$1.2M remaining

Adams Street – Drop Shaft

- Drill & Install Freeze Pipes

$0.1M completed to-date
$.3M remaining

Pump Station-Drop Shaft & Adit

- Completed installation of pipe system.
- Started freeze formation at Drop Shaft
- Drilling & Installing Freeze pipe at adit
- Poured Drop Shaft Collar

$0.6M completed to-date
$0.2M remaining

TBM Mobilization & Assembly

- TBM parts arriving on site

$0M completed
$4.1M remaining

Adams St – A/FST Connection

- Drilling & Installing freeze pipes

$0M completed
$0.7M remaining

First Street Diversion Chamber

- Drilled Secant & Soldier Piles

$ 1.3M completed to-date
$0.3M remaining

V Street-Drop Shaft & Adit
Freeze System

- Completed installation of pipe system.
- Started freeze formation at Drop Shaft

$0.7M completed to-date
$0M remaining

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RC-A: Piney Branch Early Action GI

- Paul PCS plan complete with Board and Administration support.
- DCCR staff to meet with Washington Latin PCS Administration in February 2015 to review concept design plans.
- Washington Latin Draft Concept Design includes:
  - Downspout disconnection into rain barrels to support school's garden
  - Swale and bioretention to reveal stormwater management in action
  - Right-of-way bioretention to maximize volume capture and minimize cost per impervious acre treated
  - Interpretive signage to support student education /community outreach
- Paul Draft Concept includes:
  - Downspout disconnection into bioretention that frames school entrance/ student pick-up/ drop-off location.
  - Right-of-way runoff capture (at same location) to maximize volume managed and minimize cost per impervious acre treated.
  - Interpretive signage to support student education /community outreach.

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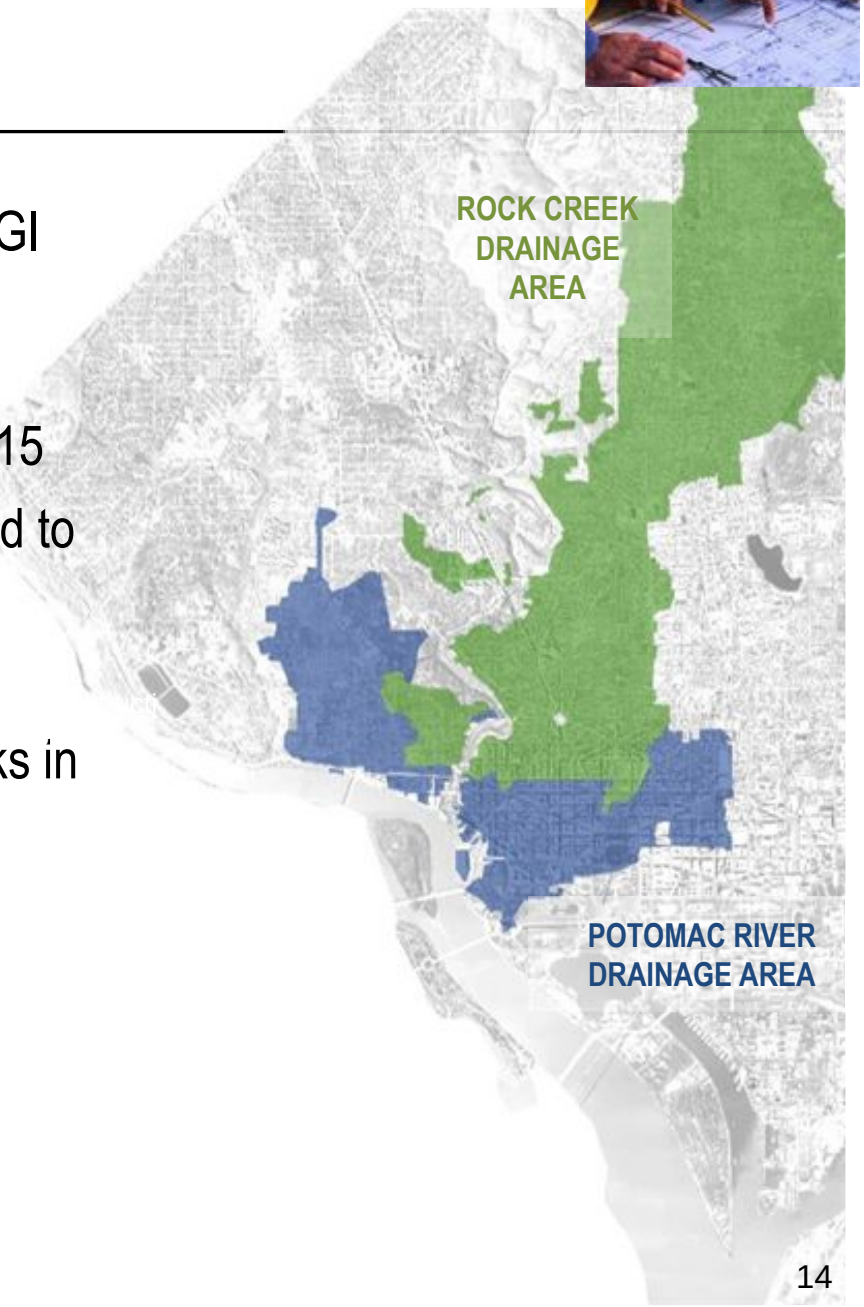
GI Challenge

- Design contracts (GI Streetscape and GI Parks) scope and fee negotiated
- Design contract for GI Streetscape anticipated to be awarded March 5, 2015
- Design contract for GI Parks anticipated to be awarded in February 2015
- Two projects:
  - Project #1: GI at 2 Triangular Parks in Piney Branch
  - Project #2: GI Streetscape at one street in Piney Branch



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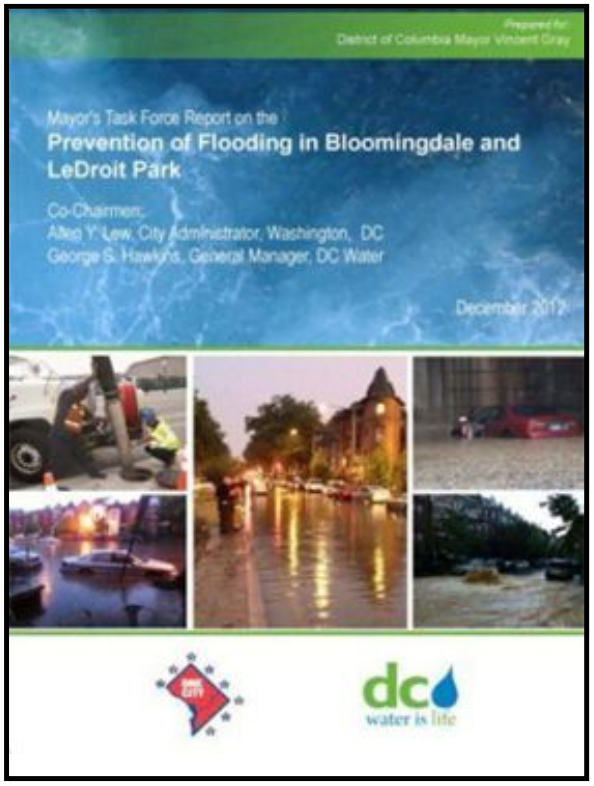
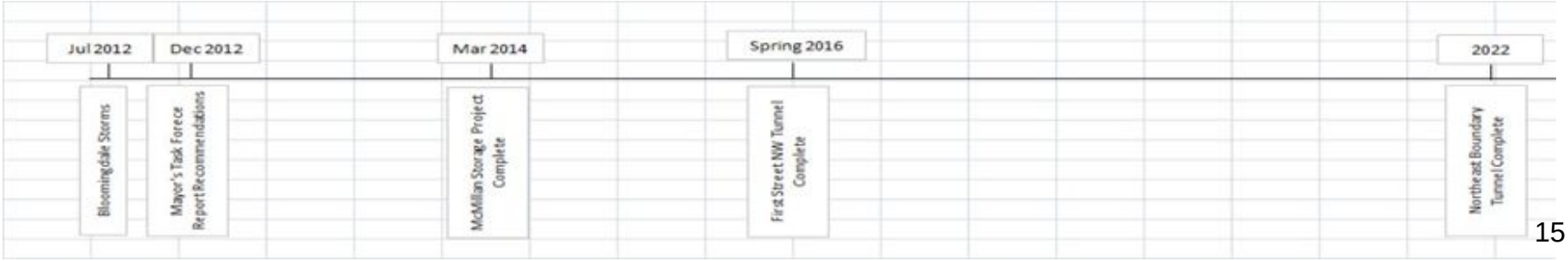
Mayor's Task Force Report on the Prevention of Flooding in Bloomingdale and LeDroit Park



Mayor's Task Force Report (Dec 2012)



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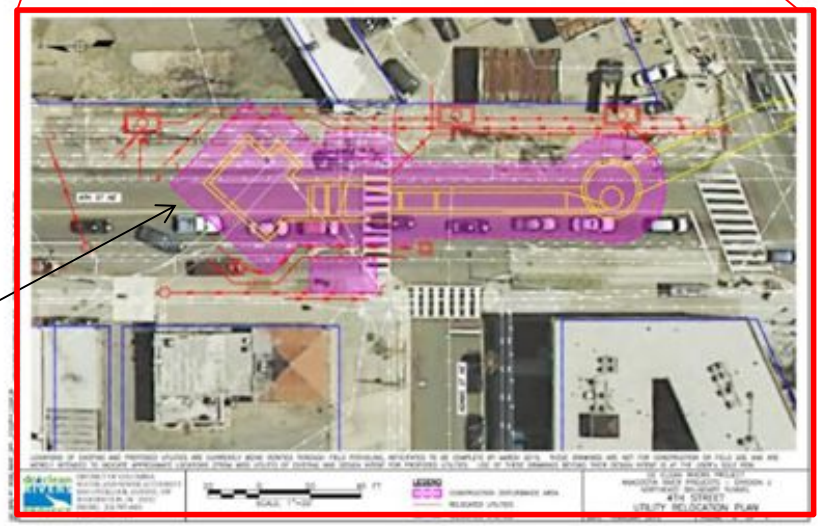
Div U: Advance Utility Relocations for Northeast Boundary Tunnel

- Purpose: Clear surface work sites to make way for Tunnel Contractor
- Started final design work
- Held meetings with DC Water, Washington Gas, Pepco, Verizon and Comcast to discuss utility relocations
- RFQ planned for end of November 2015
- RFP planned for end of January 2016
- Construction is planned to start on 7/1/2016 and continue for 14 months



Zone to be cleared of utilities

4th & Rhode Island Ave NE

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Div J: Northeast Boundary Tunnel

- 23 foot diameter tunnel, 70 to 180 feet deep, 28,600 feet long, 7 shafts and 6 diversion structures.
- Estimated construction value : $500 - $600 million
- Delivery Method: Design-Build (accelerated schedule)
- CIP Budget: $562M

Dates			
Design	Construction		
	RFP	NTP	Completion
DB	June 2016	2017	2022

Div J: Northeast Boundary Tunnel

- Met with DDOE to ascertain requirements for construction of wells and dewatering
- Developed, submitted and responded to WMATA comments on maintaining bus service during construction
- Received preliminary approval from NCPC for the W Street Ventilation Control Facility
- Continued property / easement acquisition
- Completed Bloomingdale MOU (Northeast Boundary Neighborhood Protection Project MOU)

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Bloomingdale MOU
(Northeast Boundary Neighborhood Protection Project MOU)

- Executed Sept 2014 between District and DC Water
- Provides for:
  - DC Water to construct 3 projects:
    - McMillan Stormwater Storage – by March 2014 **(completed)**
    - First St Tunnel – by Spring 2016 **(in construction – on schedule)**
    - Northeast Boundary Tunnel – goal of 2022 **(in design – on schedule)**
  - Provides for granting of easements by District for project
  - Provides framework and schedule for DC Water and District to work together to deliver these projects on schedule
  - Provides for approximately **$58 M** of funding from District for change in project scope and for acceleration of projects

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Consent Decree Modification Update

- DC Water proposing to modify consent decree:
  - Rock Creek – replace Piney Branch Tunnel with Green Infrastructure
  - Potomac River – build GI and sewer separation to allow reducing volume of Potomac Tunnel
- Proposed modification has been through 90-day public comment period
- EPA, DOJ, District and DC Water are negotiating terms of consent decree modification

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Potomac River Tunnel

- Working on Environmental Impact Statement (EIS) with National Park Service as co-lead agency
- Upcoming Consent Decree deadlines:
  - Start facility plan by March 23, 2015
  - Submit facility plan by March 23, 2017
- GI consent decree modification would impact nature and schedule of Potomac Tunnel

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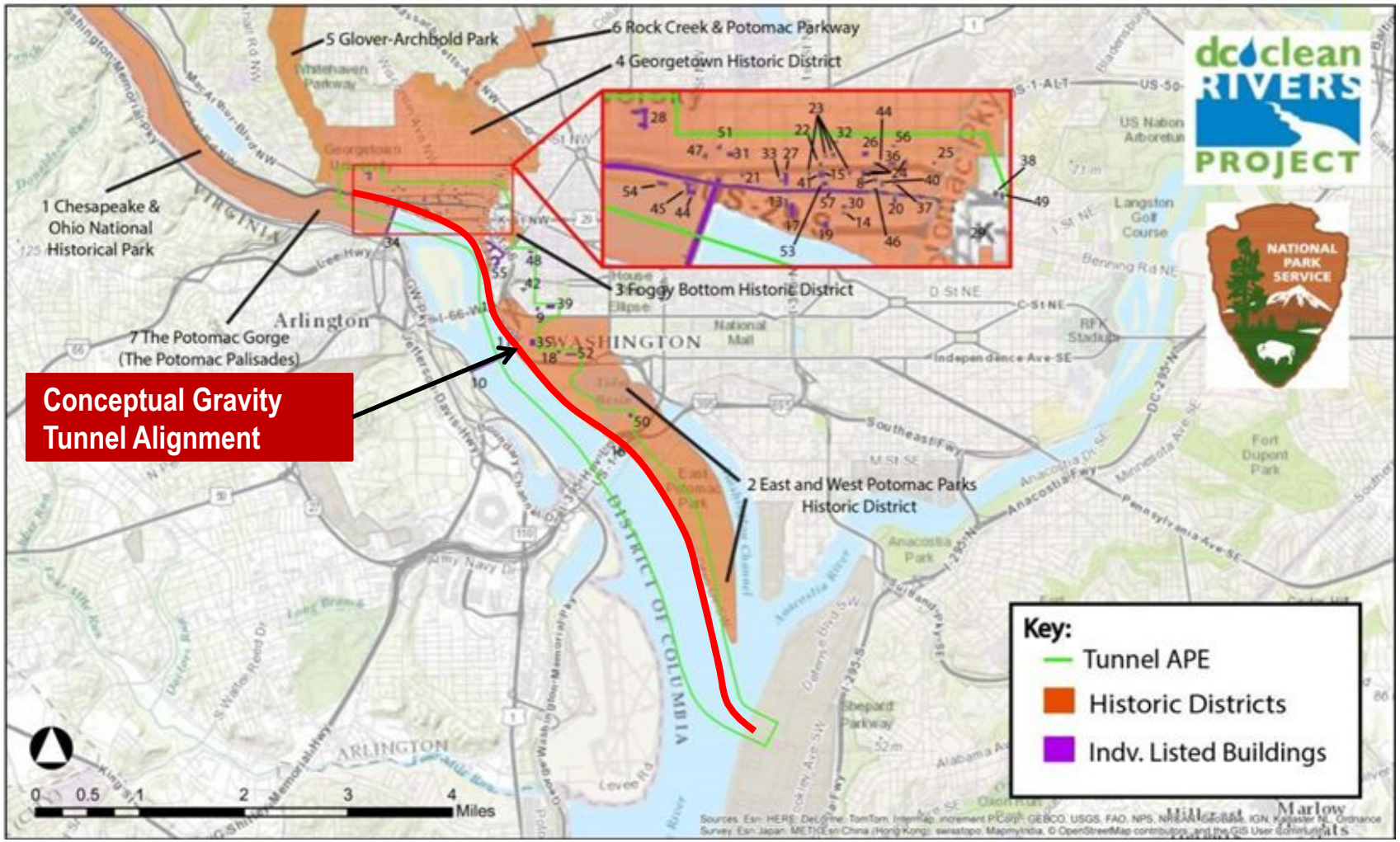
Many Historic and Archaeological Resources are Located along Potomac Tunnel Alignment

Potomac River Tunnel: Tunnel APE Draft (APE = Area of Potential Effect)



List of Historic Resources in Vicinity of Conceptual Potomac Tunnel Alignment

Historic Districts

1. Chesapeake and Ohio Canal National Historical Park (NR, NHL, DC, NM, NHP)
2. East and West Potomac Parks Historic District (NR, DC)
3. Foggy Bottom Historic District (NR, DC)
4. Georgetown Historic District (NR, NHL, DC)
5. Glover-Archbold Park (NR, DC)
6. Rock Creek & Potomac Parkway (Res. 360) (DC)
7. The Potomac Gorge (Potomac Palisades) (DC)

Historic Sites[1]

8. Adams-Mason Houses (DC)
9. American Institute of Pharmacy (NR, DC)
10. Arlington Memorial Bridge (NR, DC)
11. Arlington Memorial Bridge - Related Features, Rock Creek & Potomac Parkway Terminus (NR, DC)
12. Arlington Memorial Bridge - Related Features, The Watergate (DC, NR)
13. Bomford Mill (Pioneer Flour Mills; Flour Mill) (DC)
14. Brickyard Hill House (DC)
15. City Tavern (NR, DC)
16. Cuban Friendship Urn (DC)
17. DC Paper Manufacturing Company (Paper Mill) (DC)
18. DC War Memorial (NR, DC)
19. Dodge Warehouses (& Adjacent Structures) (DC)
20. Duvall Foundry (DC)
21. Forrest-Marbury House (DC)
22. Georgetown Commercial Buildings - Thomas Cramphin Buildings (DC)
23. Georgetown Commercial Buildings, 3068, 3056, 3072, 3112, 3116, 2919 M Street, N.W. & 1216, 1219, 1221, 1249 Wisconsin Avenue, NW (DC)
24. Georgetown Commercial Buildings, M Street and Wisconsin Avenue, Reckert House (DC)
25. Georgetown Commercial Buildings, Thomas Sims Corner & Houses, Ross & Getty Building (DC)
26. Georgetown Custom House and Post Office (NR, DC)
27. Georgetown Market (NR, DC)
28. Georgetown University Healy Hall/Old North (NR, NHL, DC)
29. Godey Lime Kilns (Washington Lime Kilns) (NR, DC)
30. Grace Church (NR, DC)
31. Halcyon House (Benjamin Stoddert House) (NR, DC)
32. John Lutz House (Aged Woman's Home; Female Union Benevolent Society) (DC)
33. Joseph Carleton House (DC)
34. Key Bridge (NR, DC)
35. Lincoln Memorial & Statue of Lincoln (NR, DC)
36. Loughborough-Patterson House (Junior League of Washington) (DC)
37. McCleery House (DC)
38. Mullett Rowhouses (NR, DC)
39. National Academy of Sciences (NR, DC)
40. Nicholas Hedges House and Federal Houses (DC)
41. Old Engine Company No. 5 (Bank of Columbia, Georgetown Town Hall & Mayor's Office) (DC)
42. Old Naval Observatory (National Observatory; Naval Museum of Hygiene; Naval Medical School) (NR, NHL, DC)
43. Old Stone House (NR, DC)
44. Potomac Aqueduct Bridge Abutment and Pier (DC)
45. Potomac Boat Club (NR, DC)
46. Potomac Masonic Lodge No. 5 (DC)
47. Prospect House (Lingan-Templeman House) (NR, DC)
48. Saint Mary's Episcopal Church (Saint Mary's Chapel) (NR, DC)
49. The Luzon (The Westover) (NR, DC)
50. Jefferson Memorial (NR, DC)
51. Quality Hill (NR, DC)
52. Vietnam Veterans Memorial (NR)
53. Vigilant Firehouse (NR, DC)
54. Washington Canoe Club (NR, DC)
55. Watergate (NR, DC)
56. William Knowles House (DC)
57. Wisconsin Avenue Bridge (High Street Bridge) (DC)

DOEs and Pending Designations (Not on map)

58. Proposed Old Naval Observatory HD (pending designation)
59. Potomac Annex Historic District (DOE)
60. 2430 E Street & 2301 Constitution Avenue NW – E Street Complex (pending designation)
61. Kennedy Center (DOE)
62. West Heating Plant (DOE, Georgetown HD)

Key:

DOE – Property has a Determination of Eligibility
DC – Property listed on the DC Inventory of Historic Sites
NR – Property listed in the National Register of Historic Places
NHP – Property is a National Historic Park
NHL – Property is a National Historic Landmark
NM – Property is a National Monument

[1] Most of these sites are also contributing buildings to the HDs mentioned above; however to save space, they are only identified here by their individual listings.

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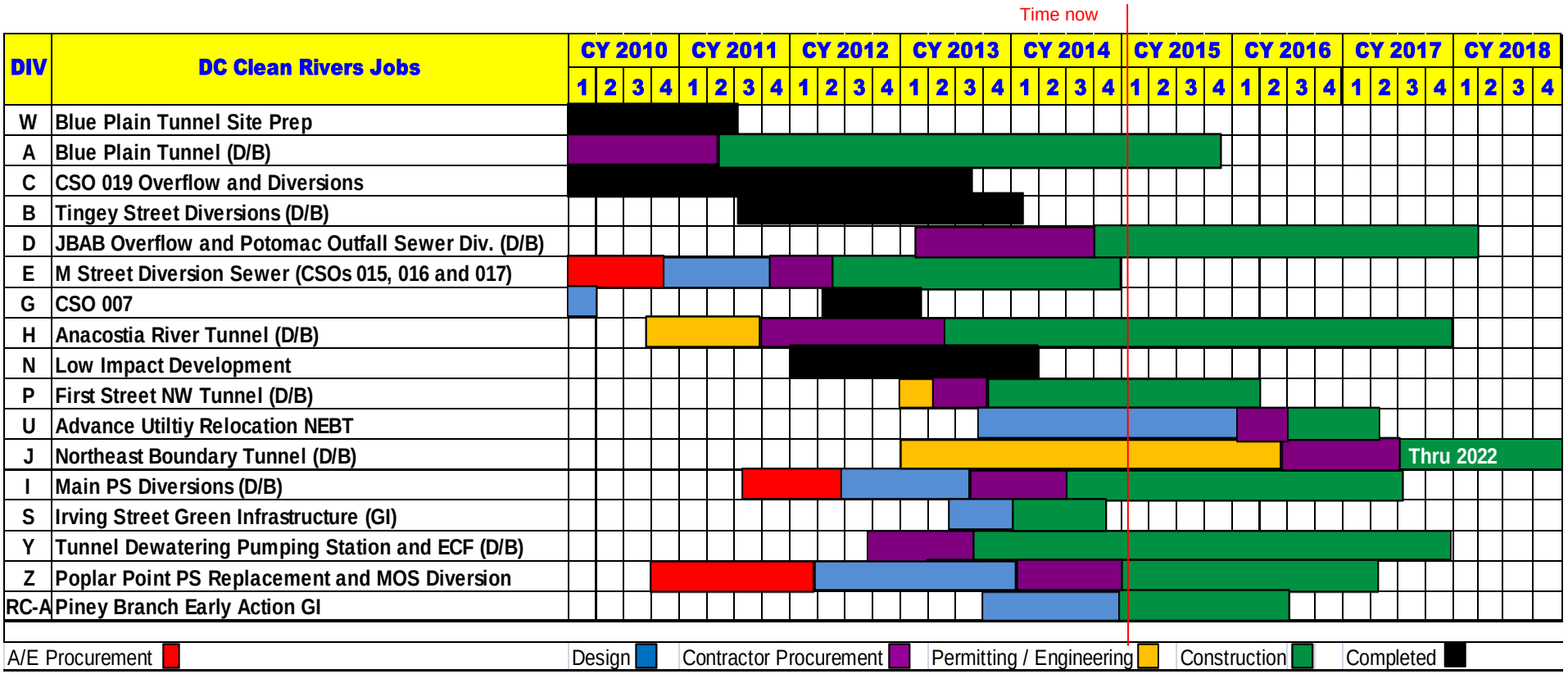
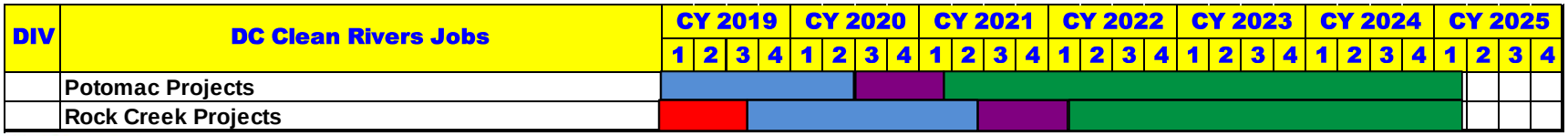
PROGRAM SCHEDULE

DC Clean Rivers Schedule





Potomac and Rock Creek project schedules are subject to change pending final Consent Decree Modifications

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CURRENT CIP BUDGET STATUS

DC Clean Rivers CIP Budget

Program Funding	Proj. No.	Project & Discription		CIP Budget Cost ($ Billions) FY15 Approved	Facility Plan
CSO	BA	Low Impact Development Projects	Projects	0.003	2008
			Subtotal	**0.003**	
CSO	CY	Anacostia River Projects	Projects	1.903	2008
			Subtotal	**1.903**	
CSO	CZ	Potomac River Projects	Projects (1)	0.410	2018
			Risk Allowance (2)	0.000	2019
			Subtotal	**0.410**	
CSO	DZ	Rock Creek Projects	Projects (1)	0.076	2019
			Subtotal	**0.076**	
BTN	EG, FS, H7	ENR Related Projects (Blue Plains Tunnel, JBAB Overflow and Diversion Structures, BP Site Prep)	Projects	0.237	2008
			Subtotal	**0.237**	
			Total	**2.630**	
		Reimbursement by the district:		**-0.059**	
		Revised Total:		**2.571**	

Projects required for nutrient removal at Blue Plains.

(1) Cost estimates for projects CZ and DZ were prepared in 2001 and do not reflect the current scope of work. Cost for these projects will be re-estimated once a better definition of scope is made available.

(2) Risk allowance is for work that can be needed for tunnel construction as more information becomes available on:

- Soil conditions and tunneling under existing structures
- Complying with thrid party requirements (e.g. NPS)
- Unknow hazardous material

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DC Water: An Environmental Innovator

https://www.youtube.com/watch?v=A57CJqtGhfc

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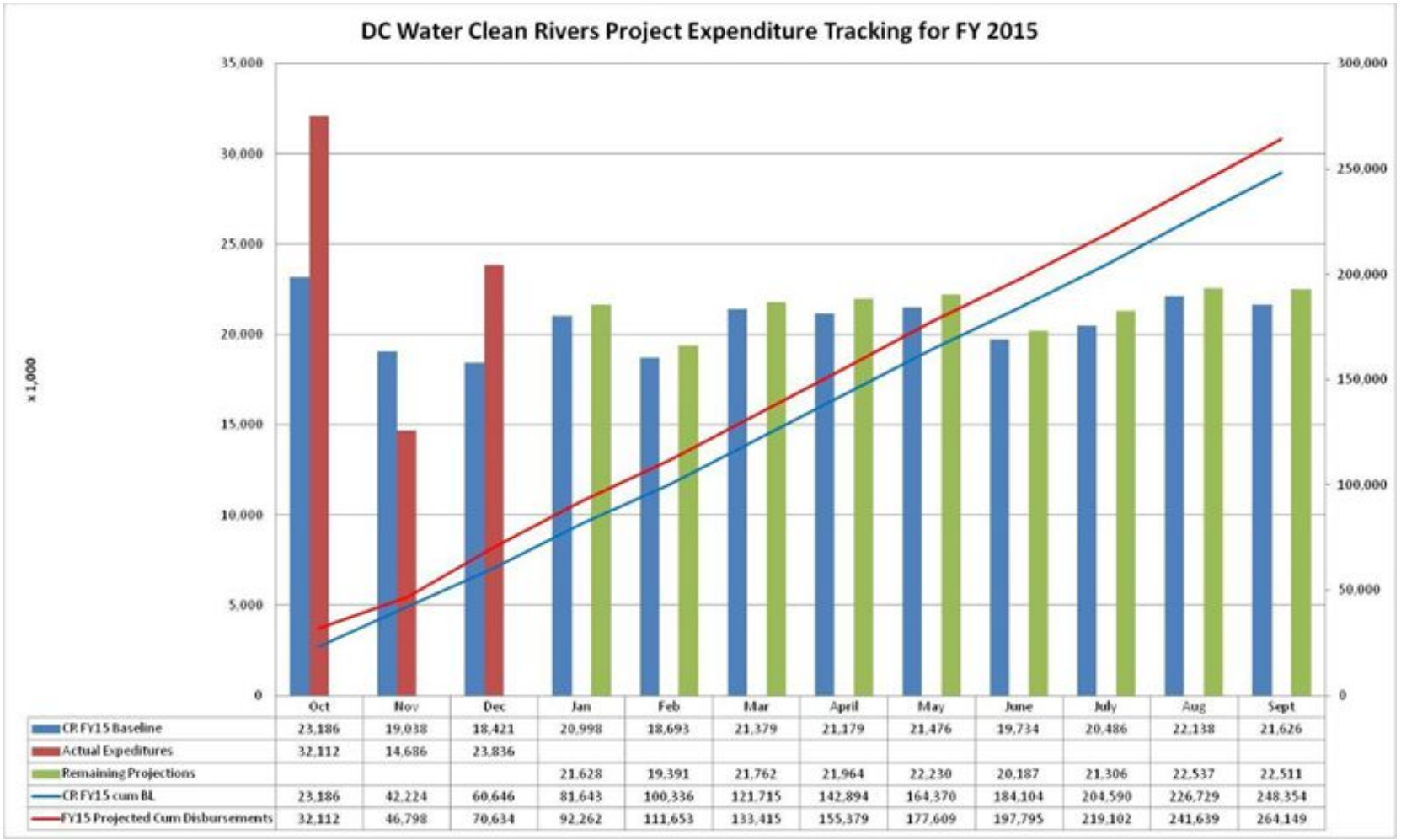
FISCAL YEAR 2015 SPENDING STATUS

FY2015 Spending Status



	Oct	Nov	Dec	Jan	Feb	Mar	April	May	June	July	Aug	Sept
CR FY15 Baseline	23,186	19,038	18,421	20,998	18,693	21,379	21,179	21,476	19,734	20,486	22,138	21,626
Actual Expeditures	32,112	14,686	23,836									
Remaining Projections				21,628	19,391	21,762	21,964	22,230	20,187	21,306	22,537	22,511
CR FY15 cum BL	23,186	42,224	60,646	81,643	100,336	121,715	142,894	164,370	184,104	204,590	226,729	248,354
FY15 Projected Cum Disbursements	32,112	46,798	70,634	92,262	111,653	133,415	155,379	177,609	197,795	219,102	241,639	264,149

- To-date expenditures are tracking higher than planned mostly due to invoices from FY14 that were processed during October.

SUMMARY

Summary

On Track To Meet CD Milestones + On Budget

Construction:

- Overall physical construction percent complete for awarded projects is approximately 56%

Upcoming Procurement:

- RFQ and Bid Documents for Div U (Advance Utility Relocations for Northeast Boundary Tunnel) are planned for September 2015 and January 2016
- RFQ and RFP for Div J (Northeast Boundary Tunnel) are planned for October 2015 and June 2016, respectively

District of Columbia Water and Sewer Authority

Capital Improvement Program Report

FY-2015 1st Quarter
October 1st through December 31st, 2014

Board of Directors
Environmental Quality and Sewerage Services Committee

George S. Hawkins, General Manager
Leonard R. Benson, Chief Engineer

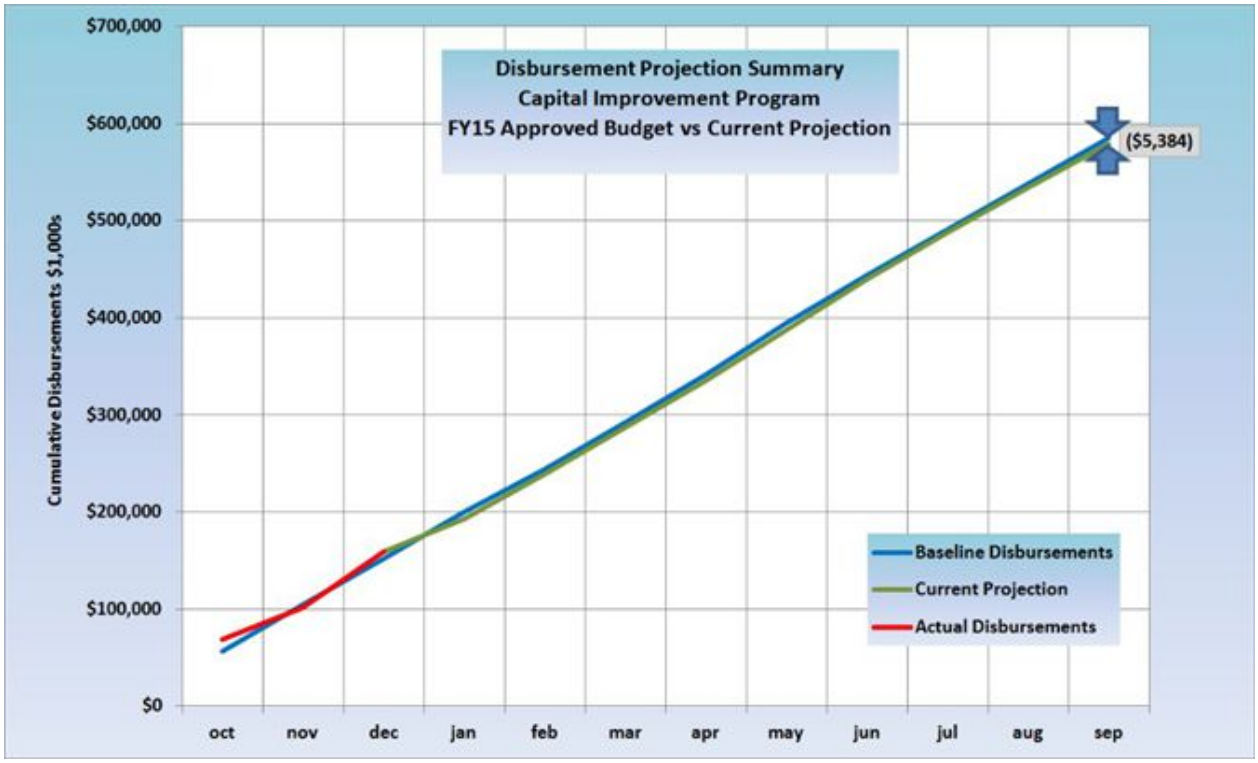
February 2015

Capital Improvement Program Report
1st Quarter FY2015

Program Performance

Current projected program disbursements through the end of the fiscal year compared with the approved FY15 projections are shown in the chart below:

Disbursement Projections Summary



Current projected fiscal year 2015 CIP disbursements are $579,799,000 through the end of December, which is 1% below the baseline disbursement projections of $585,182,000.
Current disbursement projections within the service areas are as follows:

Wastewater Treatment Service Area
Baseline Disbursements $206,259,000
Projected Disbursements $200,767,000 ($5.5M below baseline projection)
Significant project variances listed below

- *Enhanced Nitrogen Removal Program Area – (Projected to be $4.6M below baseline)*
  - The projected disbursements are expected to be $7.0 million below baseline for Project EE - Filtrate Treatment Facilities, this is a result of undocumented underground utilities encountered during site preparation, that delayed the mass excavation start by 2.5 months,

and slower than expected major process equipment submittal approval that has delayed the payment schedule for those items. It is anticipated the contract will be complete within budget.

- Project EG - Blue Plains Tunnel is proceeding favorably with mining expected to be complete mid to late summer 2015 when disbursements are projected to reduce. At fiscal yearend disbursements are anticipated to be $4.3 million above baseline projection.

CSO Service Area
Baseline Disbursements $271,100,000
Projected Disbursements $278,731,000 ($7.63M above baseline projection)
Significant project variance listed below:

- *Clean Rivers Program – (Projected to be $6.3M above baseline)*
  - Currently projected disbursements in Project CY – Anacostia LTCP Projects are $6.3M above baseline due to work on the Blue Plains Tunnel Division A and Anacostia River Tunnel Division H design build contracts proceeding favorably, with anticipated on time completion. In addition, the acceleration of the First Street Tunnel as part of the Bloomingdale flood alleviation is also proceeding well. The projects remain within budget.

Stormwater Service Area
Baseline Disbursements $2,559,000
Projected Disbursements $1,018,000 ($1.5M below baseline projection)

Sanitary Sewer Service Area
Baseline Disbursements $40,258,000
Projected Disbursements $35,363,000 ($4.9M below baseline projection)

- *Sanitary Collection Sewers Program Area – (Projected to be $3.5M below baseline)*
  - Currently projected disbursements are $2.1 million below baseline in Project G1 – Small Local Sewer Rehab 1 due to delayed construction procurement resulting from development of the Cured in Place Pipe specifications to better align level of quality with economic viability.
- *Sanitary Interceptor/Trunk/ Force Sewers – (Projected to be $1.9M Below Baseline)*
  - Preliminary inspection in Project IN – Upper East Side Trunk Sewer Rehabilitation revealed less debris than anticipated and therefore, the cost for full cleaning and inspection was greatly reduced. As a result projected disbursements are $0.7 million below baseline.

Water Service Area
Baseline Disbursements $65,006,000
Projected Disbursements $63,920,000 ($1.1M below baseline projection)

Capital Improvement Program Report
1st Quarter FY2015

Priority 1 Projects (Court Ordered, Stipulated Agreements, etc)

All priority 1 projects are on schedule and within budget.

Large Contract Actions Anticipated – 6 Month Look-Ahead

Project MA – Saint Elizabeth's Water Tank
Construction Contract ($20M - $25M), WQ&WS Jun, BOD Jul

Project J3 – National Arboretum Sewer Rehab Contract 1
Construction Contract ($5M - $10M), EQ&SS Apr, BOD May

Project O3 – Small Diameter Watermain Rehab 11a
Construction Contract ($5M - $10M), WQ&WS Jun, BOD Jul

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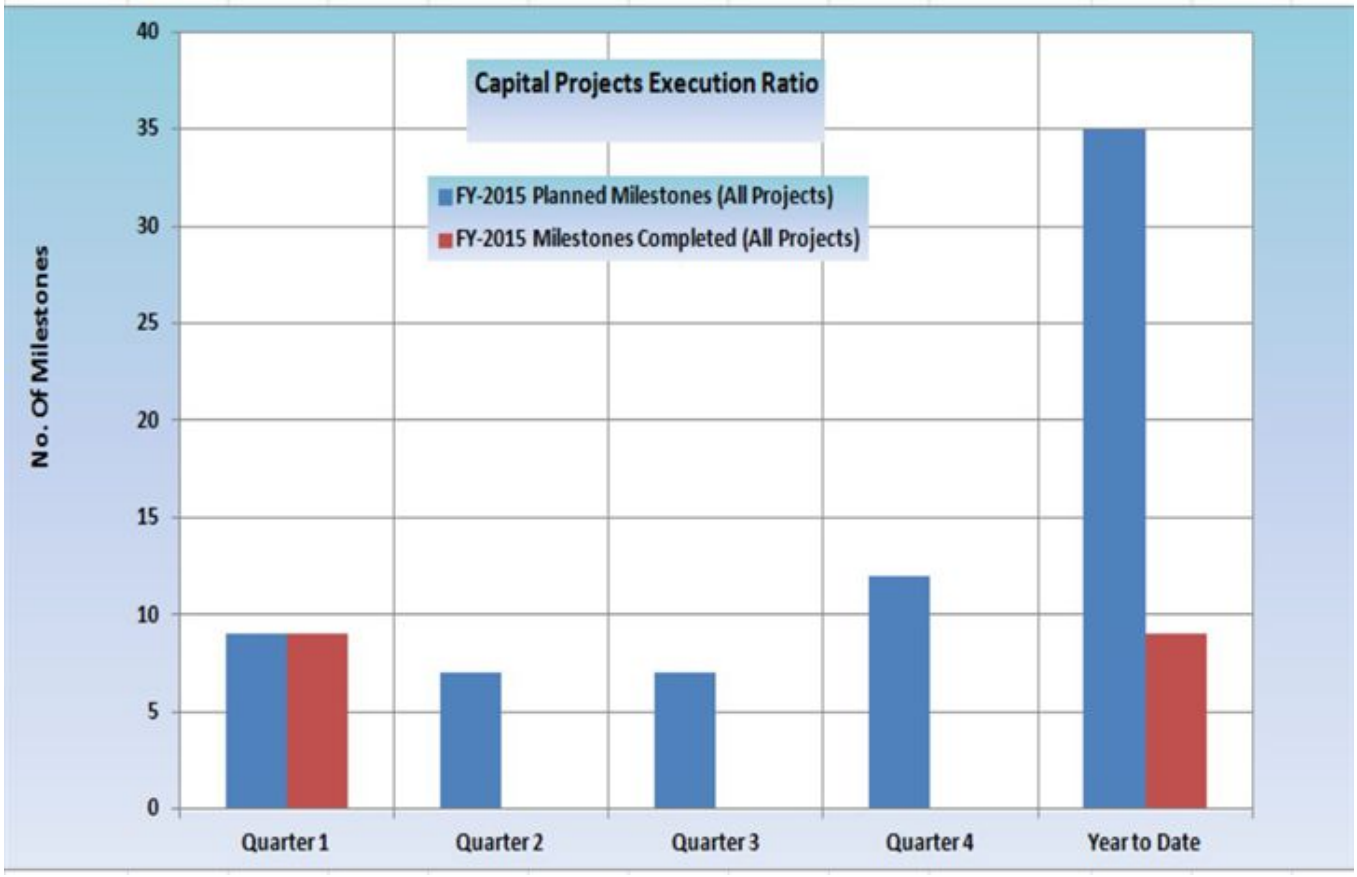
Key Performance Indicators, Capital Improvement Program

Key performance indicators related to the Capital Improvement Program are shown below.



Note: Capital Projects Execution Ratio measures the completion of critical project milestones for large capital projects during the fiscal year. Critical project milestones include: Design Starts, Construction Starts and Construction Substantial Completions as well as Consent Decree and Permit mandated milestones.

For the 1st Quarter, five of the nine planned KPI milestones were met. The missed KPI milestones included the construction substantial completion milestones for the Biosolids Main Process Train (MPT), Biosolids Combined Heat and Power (CHP), Biosolids Final Dewatering Contract 1 and Biosolids Final Dewatering Contract 2. These missed milestones were due to the contractor not completing all items needed for final contract closeout. In addition, four KPIs planned for the second quarter were achieved in the first quarter. These were the design start milestone for Creekbed Sewer Rehab at Bingham Drive, the construction start milestone for Small Diameter Watermain Replacement 10b, the construction substantial completion milestone for Div E - CSO 015-017 Structures/Diversions, and the Permit Compliance milestone for the Nitrogen Removal Facilities.

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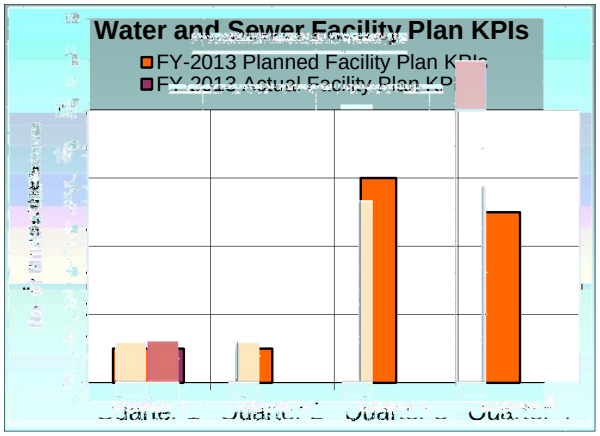
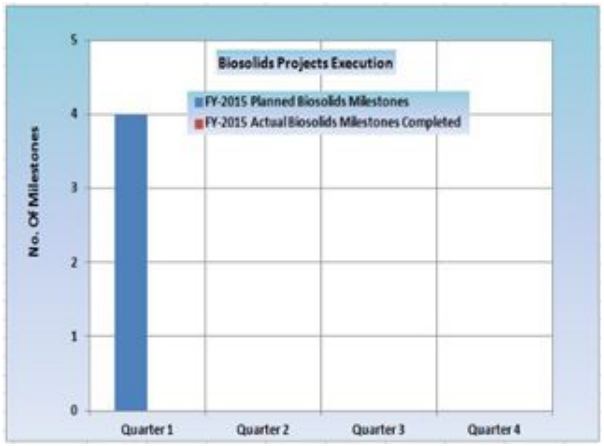


Note: Water and Sewer Facility Plan KPIs measure the completion of critical project milestones for projects developed through either the Water or the Sewer Facility Plan. For variance, see note above.

Note: LTCP Project Execution measures the completion of critical project milestones for the LTCP projects during the fiscal year. Critical project milestones include all those required to meet Consent Decree dates. For variance, see note above.



Note: Biosolids Project Execution measures the completion of critical project milestones for the Biosolids projects during the fiscal year. For variance, see note above.

Note: Enhanced Nitrogen Removal Execution measures the completion of critical project milestones for the Enhanced Nitrogen Removal (ENR) projects during the fiscal year. For variance, see note above.

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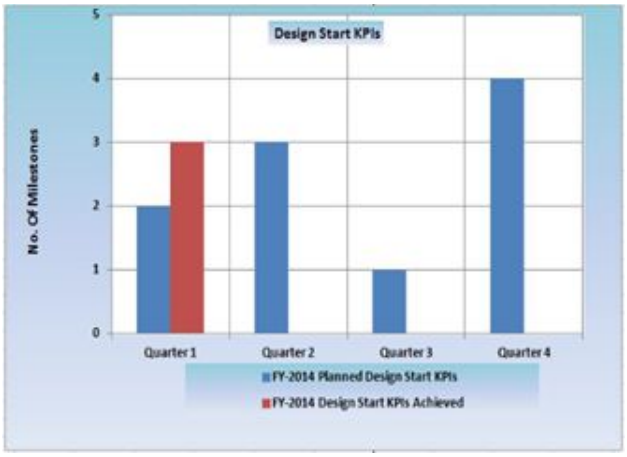
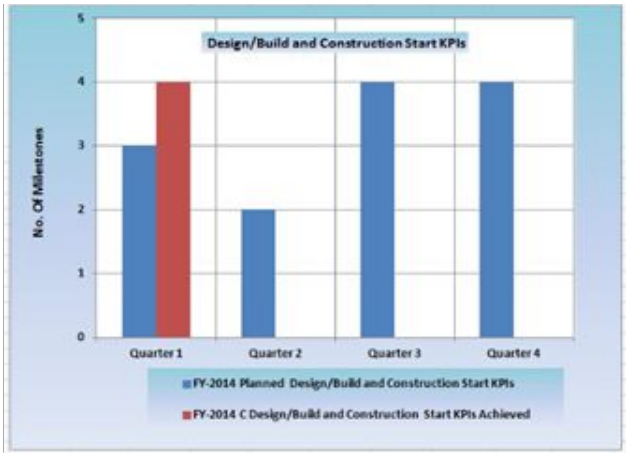
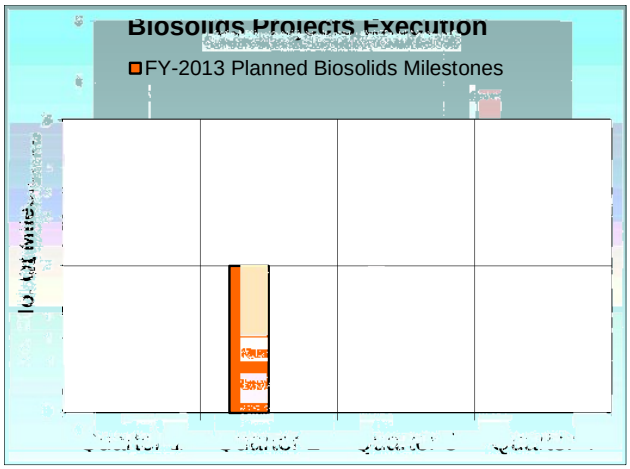
Key Performance Indicators by category: Design Start, Construction Start and Construction Substantial Completion







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For FY15, the following KPI Milestones will be monitored:

Qtr.	Project	Job Name	KPI Name	KPI Achieved?
1st	XA12	Biosolids Final Dewatering	Construction Substantial Completion	N
1st	XA08	Biosolids Main Process Train (MPT)	Construction Substantial Completion	N
1st	XA10	Biosolids Combined Heat and Power (CHP)	Construction Substantial Completion	N
1st	XA12	Biosolids Final Dewatering	Construction Substantial Completion	N
1st	FY01	Rehab Upper Part of Rock Creek Main Interceptor	Design Start Milestone	Y
1st	FA06	Brentwood Reservoir Upgrade	Construction Start Milestone	Y
1st	FA04	Ft. Stanton Reservoir No. 1 Upgrade	Construction Start Milestone	Y
1st	FS01	Div D - JBAB Overflow and Diversion Structures	Construction Start Milestone	Y
1st	IF02	Sanitary Sewer Rehab and Repair Phase 6	Design Start Milestone	Y
2nd	CY04	Div E - CSO 015-017 Structures/Diversions	Construction Substantial Completion	Y (1st Q)
2nd	E901	Nitrogen Removal Facilities - Contract 2	Permit Compliance	Y (1st Q)
2nd	CY21	Div Z - Poplar Point Pumping Sta. Replacement	Construction Start Milestone	
2nd	DE01	Small Diameter Water Main Repl 12A	Design Start Milestone	
2nd	IL07	Creekbed Sewer Rehabilitation Bingham Drive	Design Start Milestone	Y (1st Q)
2nd	DS01	New Headquarters Building	Design Start Milestone	
2nd	O202	Small Dia Watermain Repl 10b	Construction Start Milestone	Y (1st Q)
3rd	F603	Steel Water Mains Contract 3	Design Start Milestone	
3rd	GA01	Small Local Sewer Rehab 4	Construction Start Milestone	
3rd	O001	Small Dia Watermain Rehab 8-1	Construction Substantial Completion	
3rd	BZ03	Large Valve Replacements 10	Construction Substantial Completion	
3rd	Q302	Pope Branch Stream Restoration	Construction Start Milestone	
3rd	G100	Lining & Repair of Local Sewers	Construction Start Milestone	
3rd	J306	National Arboretum Sewer Rehab	Construction Start Milestone	
4th	MA01	St. Elizabeth Water Tank	Construction Start Milestone	
4th	N712	Potomac Sewer - Odor Remedy (VA Sites)	Construction Substantial Completion	
4th	E901	Nitrogen Removal Facilities - Contract 2	Construction Substantial Completion	
4th	FA02	Ft. Reno Reservoir No. 1 Upgrade	Construction Substantial Completion	
4th	FH01	Discharge Piping Bryant Street Pump Station	Construction Substantial Completion	
4th	O301	Small Dia Watermain Repl 11a	Construction Start Milestone	
4th	I802	Large Valve Replacements 12	Construction Start Milestone	
4th	I803	Large Valve Replacements 13	Construction Start Milestone	

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Qtr.	Project	Job Name	KPI Name	KPI Achieved?
4th	FA03	Soldiers Home Reservoir Upgrade	Design Start Milestone	
4th	DE02	Small Diameter Water Main Repl 12B	Design Start Milestone	
4th	BP01	Grit Chamber Facilities Phase II	Design Start Milestone	
4th	BQ01	Primary Treatment Facilities Ph II	Design Start Milestone	