

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, September 17, 2015
9:30 a.m.*

- | | |
|--|-------------------------------|
| I. Call to Order | James Patteson
Chairperson |
| 9:30 a.m. II. AWTP Status Updates
1. BPAWTP Performance | Aklile Tesfaye |
| 9:40 a.m. III. Status Updates: Potomac Interceptor Sewer
1. Odor Abatement Project | Len Benson |
| 9:50 a.m. IV. Action Items – Joint Use
1. Contract No. 15-PR-DIT-41 , Wipro Limited, GeoDecisions & EMA Services
2. Contract No. WAS-11-009-AA-MB, MB Staffing Services
3. Contract No. 4400001195, Insight Public Sector
4. Contract No. 15-PR-WWT-21, Kuehne Chemical Co., Inc.
5. Contract No. 14-PR-DFS-078, M&N Contractors, LLC
6. Contract No. NJPA #102811 –National Auto Fleet Group
Non-Joint Use
1. Contract No. 150040, Underwood & Associated, Inc. | Teresa Scott/Len Benson |
| 10:00 a.m. V. Clean Rivers Quarterly Report and Green Infrastructure National Certification Program | Carlton Ray |
| 10:30 a.m. VI. CIP Quarterly Report | Len Benson |
| 10:45 a.m. VII. Other Business/Emerging Issues | |

11:00 a.m. VIII. Adjournment

James Patteson
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.

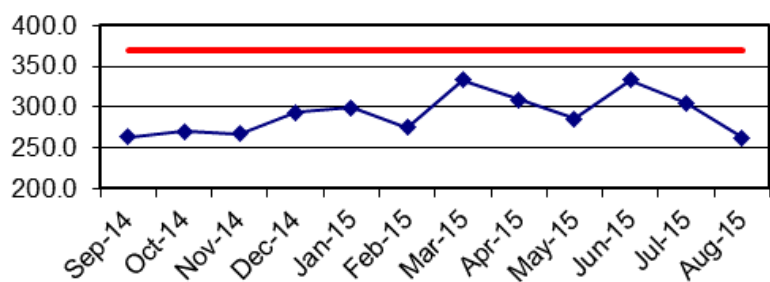
Follow-up Items from Prior Meetings:

1. Revise Blue Plains Electricity Usage bar chart to show electricity production from CHP and the electricity purchased. *{Incorporated into updated BPAWTP Performance report as of September 2015}*

DEPARTMENT OF WASTEWATER TREATMENT August 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 263 MGD. There was no Excess Flow during this reporting period. The following Figures compare the plant performance with the corresponding NPDES permit

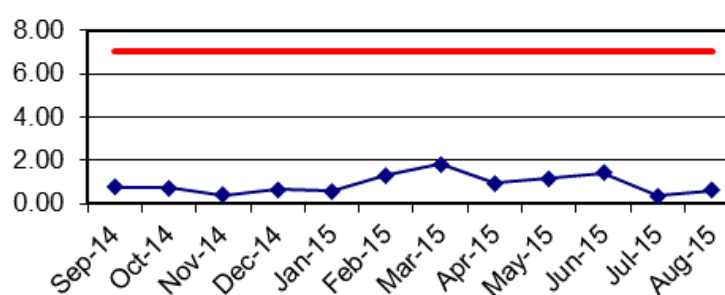
Plant Influent Flow (mgd)



■ Influent Flow — Average Design Capacity

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.

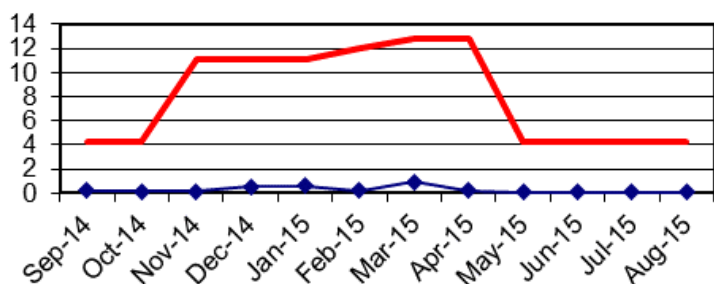
TSS (mg/l)



■ Effluent TSS — Permit Limit

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 0.60 mg/L, which is below the 7.0 mg/L permit limit.

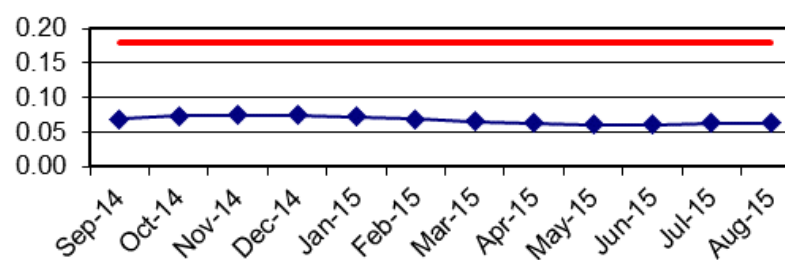
Ammonia (mg/l)



■ Effluent NH3 — Permit Limit

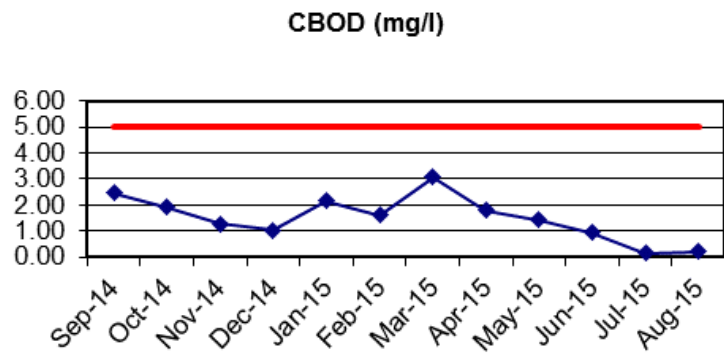
The Ammonia Nitrogen (NH₃-N) is a measure of the nitrogen found in ammonia. For the month, effluent NH₃-N concentration averaged 0.10 mg/L and is below the average 4.2 mg/L limit.

Total Phosphorus Annual Average (mg/l)



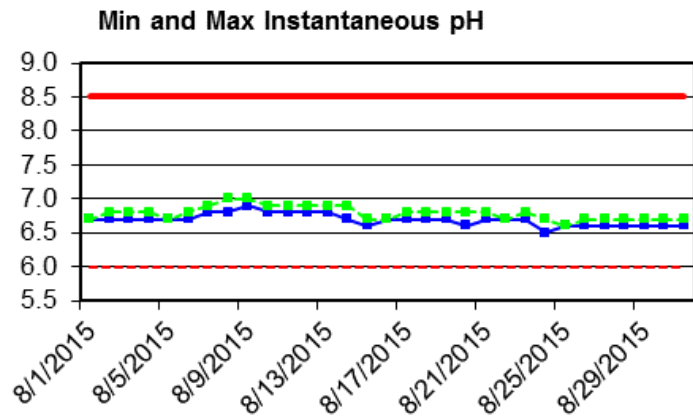
■ Effluent TP — Permit Limit

The Total Phosphorus (TP) is a measure of the particulate and dissolved phosphorus in the effluent. The annual average effluent TP concentration is 0.06 mg/L, which is below the 0.18 mg/L annual average limit.



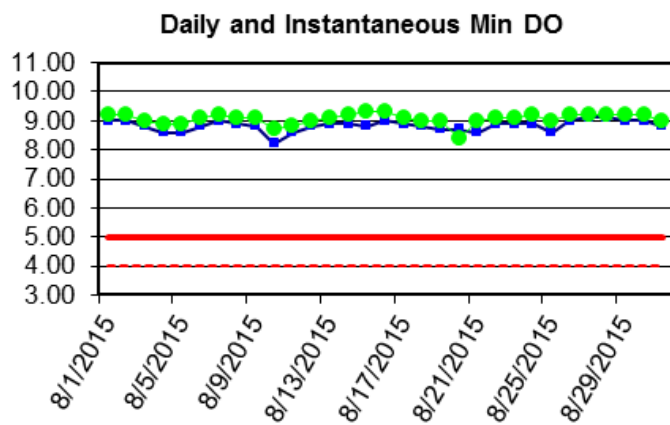
■ Effluent CBOD — Permit Limit

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 0.26 mg/L (partial month) which is below the 5.0 mg/L limit.



● MAX pH ■ MIN pH — Upper Limit - - Lower Limit

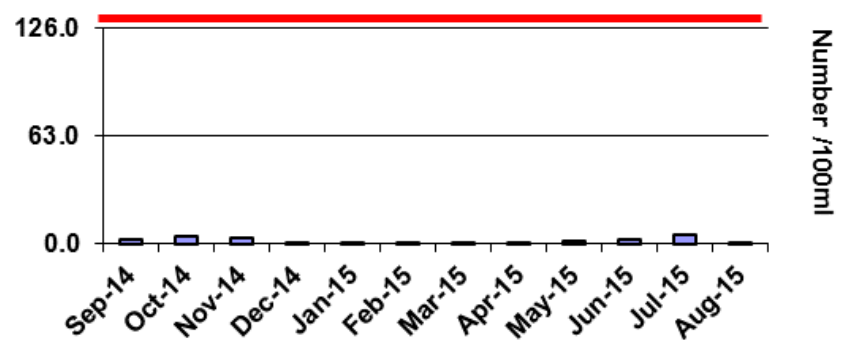
pH is a measure of the intensity of the alkalinity or acidity of the effluent. The minimum and maximum pH observed were 6.5 and 7.0 standard units respectively. The pH was within the permit limits of 6.0 and 8.5 for minimum and maximum respectively.



● MIN Daily Average ■ Instant MIN DO
— MIN Daily Average Limit - - Instant MIN Limit

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 8.4 mg/L. The minimum instantaneous DO reading is 6.7 mg/L. The minimum permit limits are 5.0 mg/L and 4.0 mg/L respectively. The low instantaneous reading on March 9 was due to a planned full air outage for construction. This was completed without permit impact.

E. coli

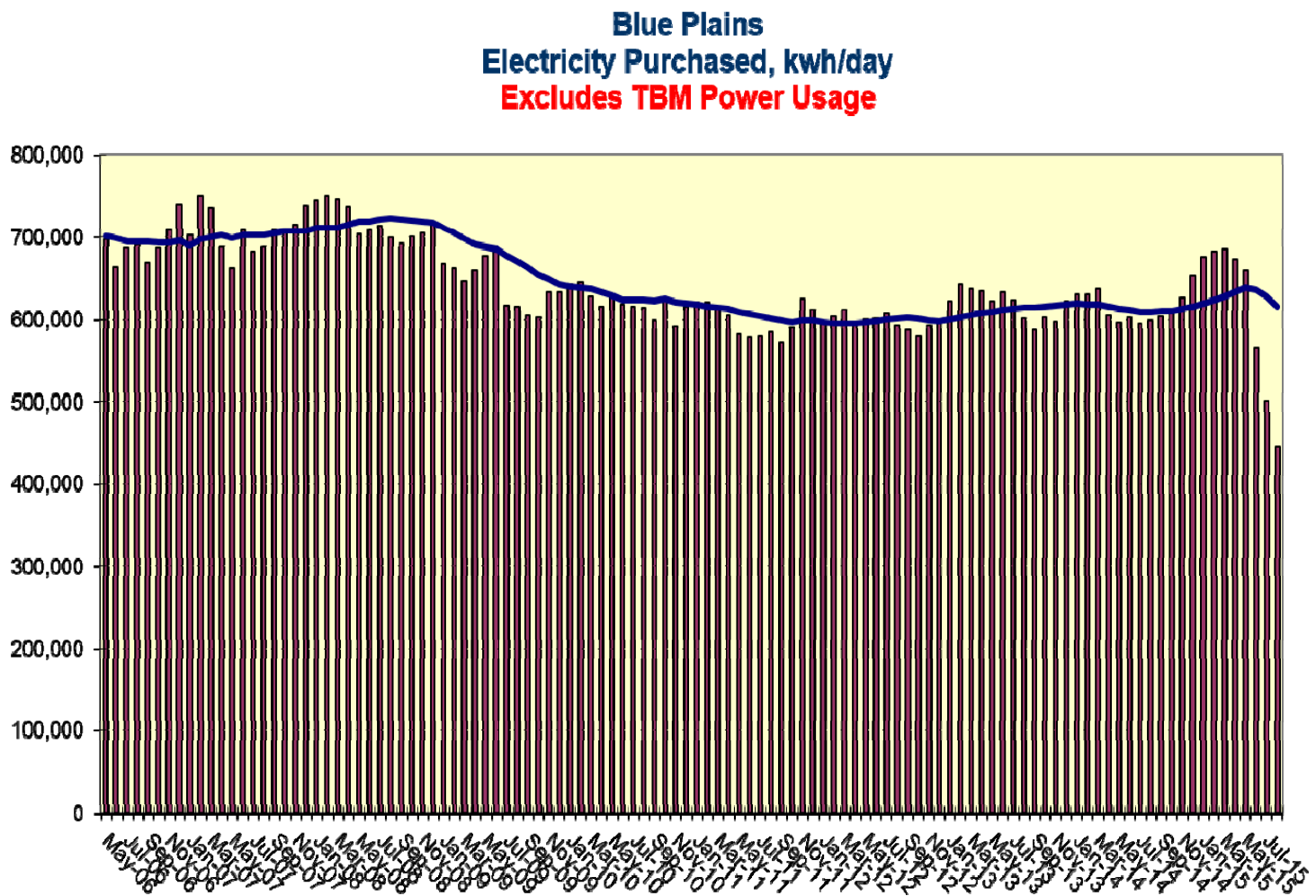


■ E. Coli Geomean — Permit Limit

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.

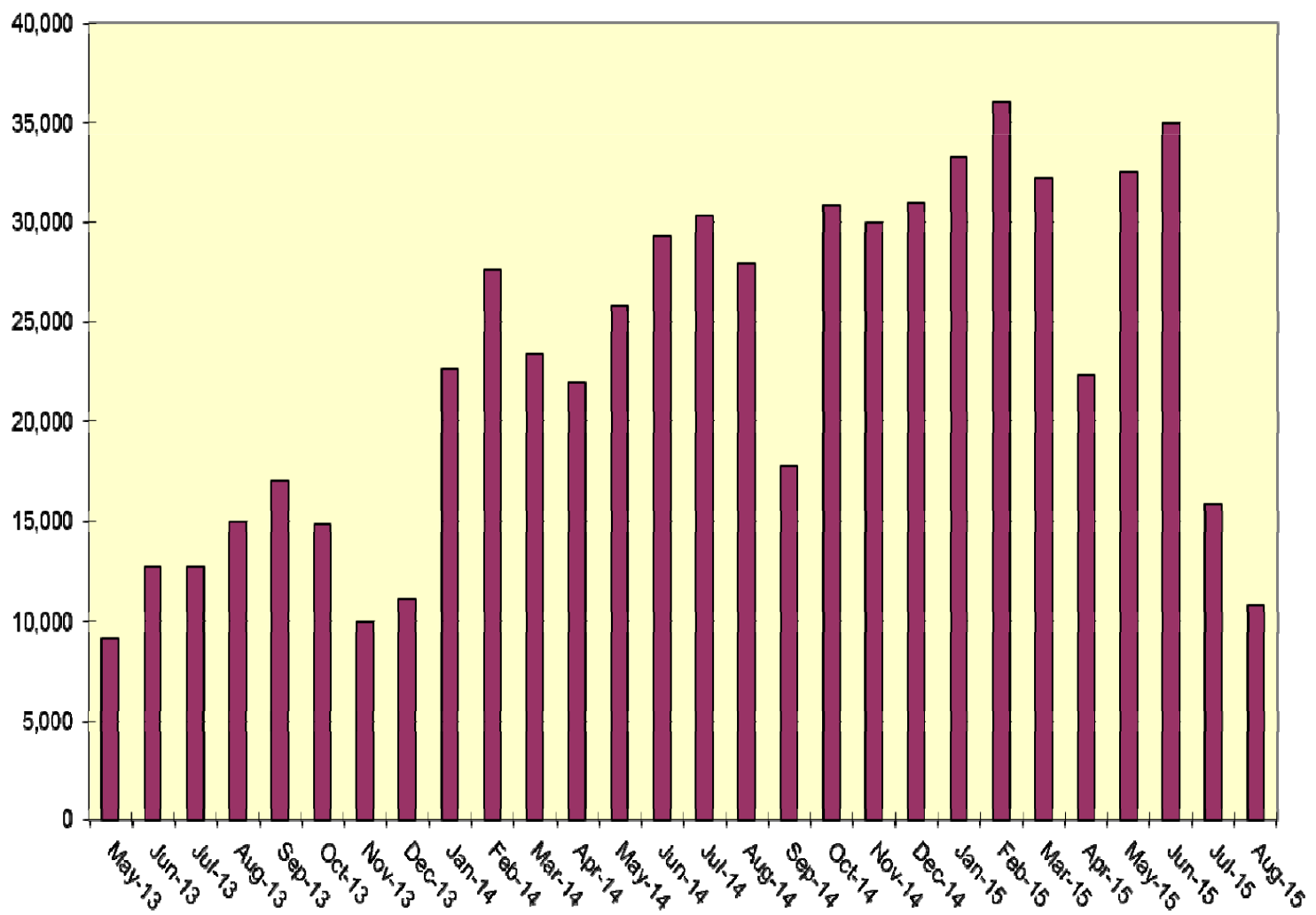
BLUE PLAINS ELECTRICITY USAGE

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. As new processes are brought on line, the plant power requirements have increased. As CHP power is fed into the system, the net power purchased from the grid has decreased.

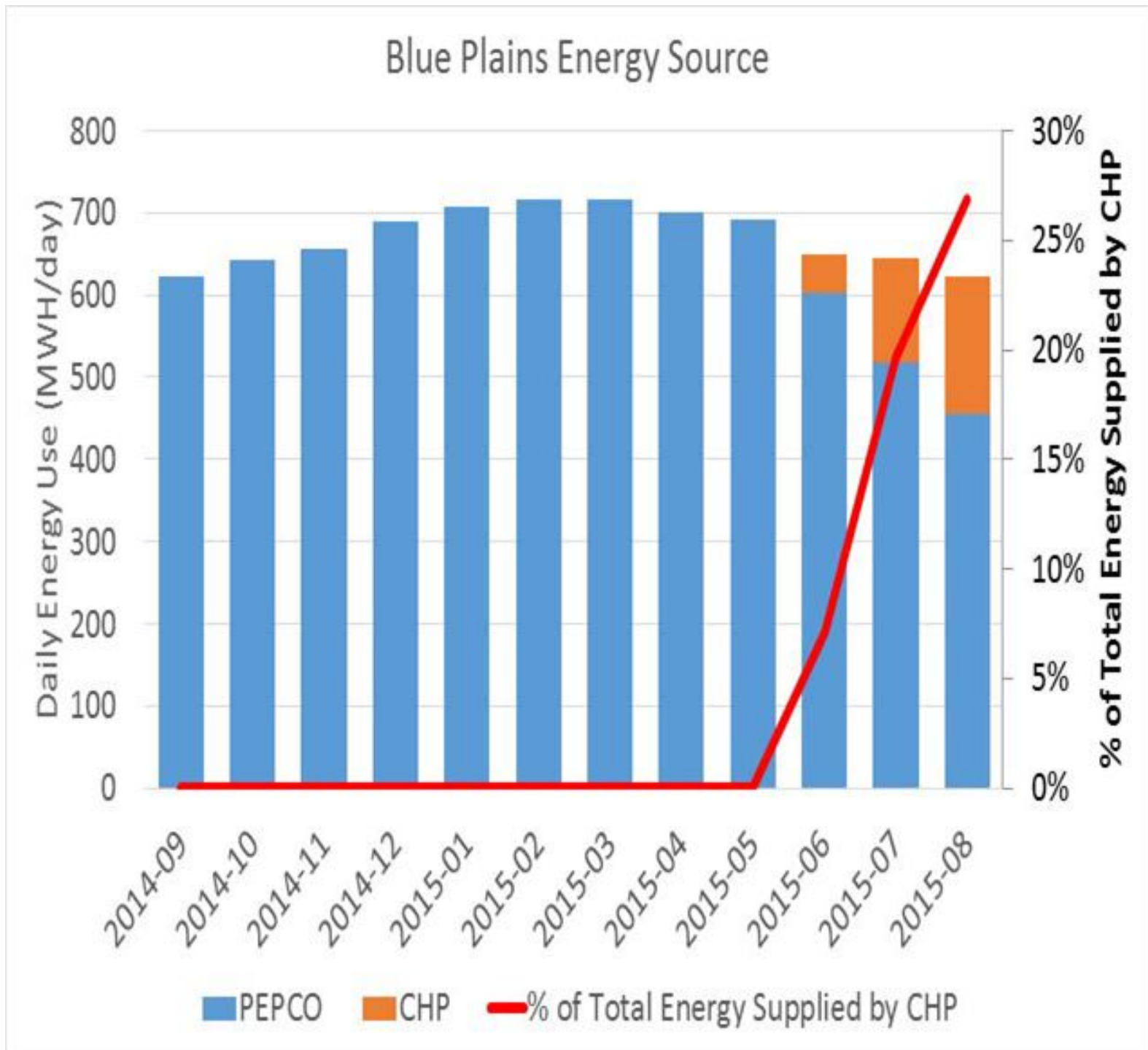


As the Blue Plains Tunnel nears completion, the power usage for the site has decreased as is seen from the graph below.

TBM
Electricity Used, kwh/day



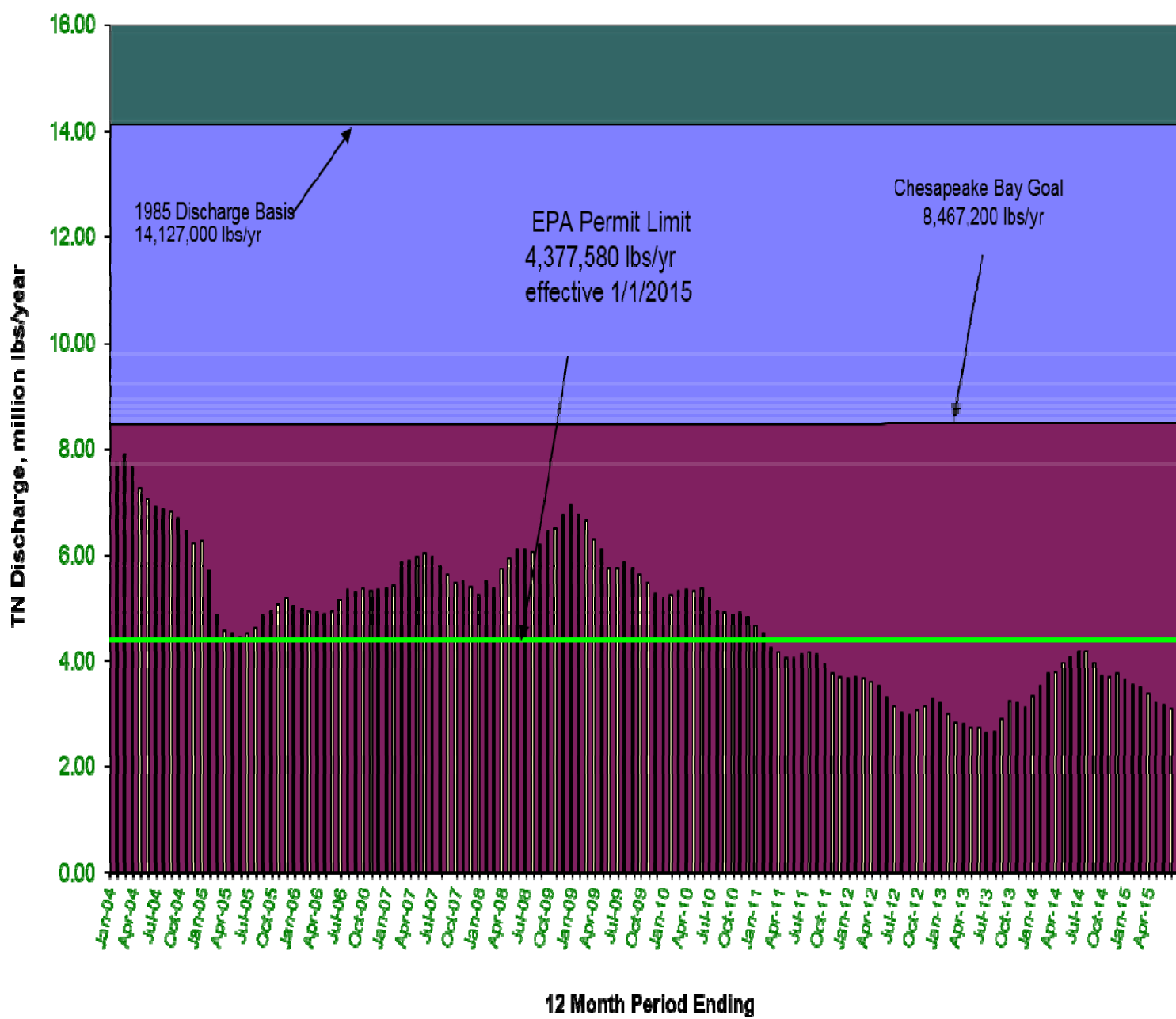
As CHP is brought on line (still in testing phase), the percent of Blue Plains power purchased from the grid decreases. This is shown in the graph below.



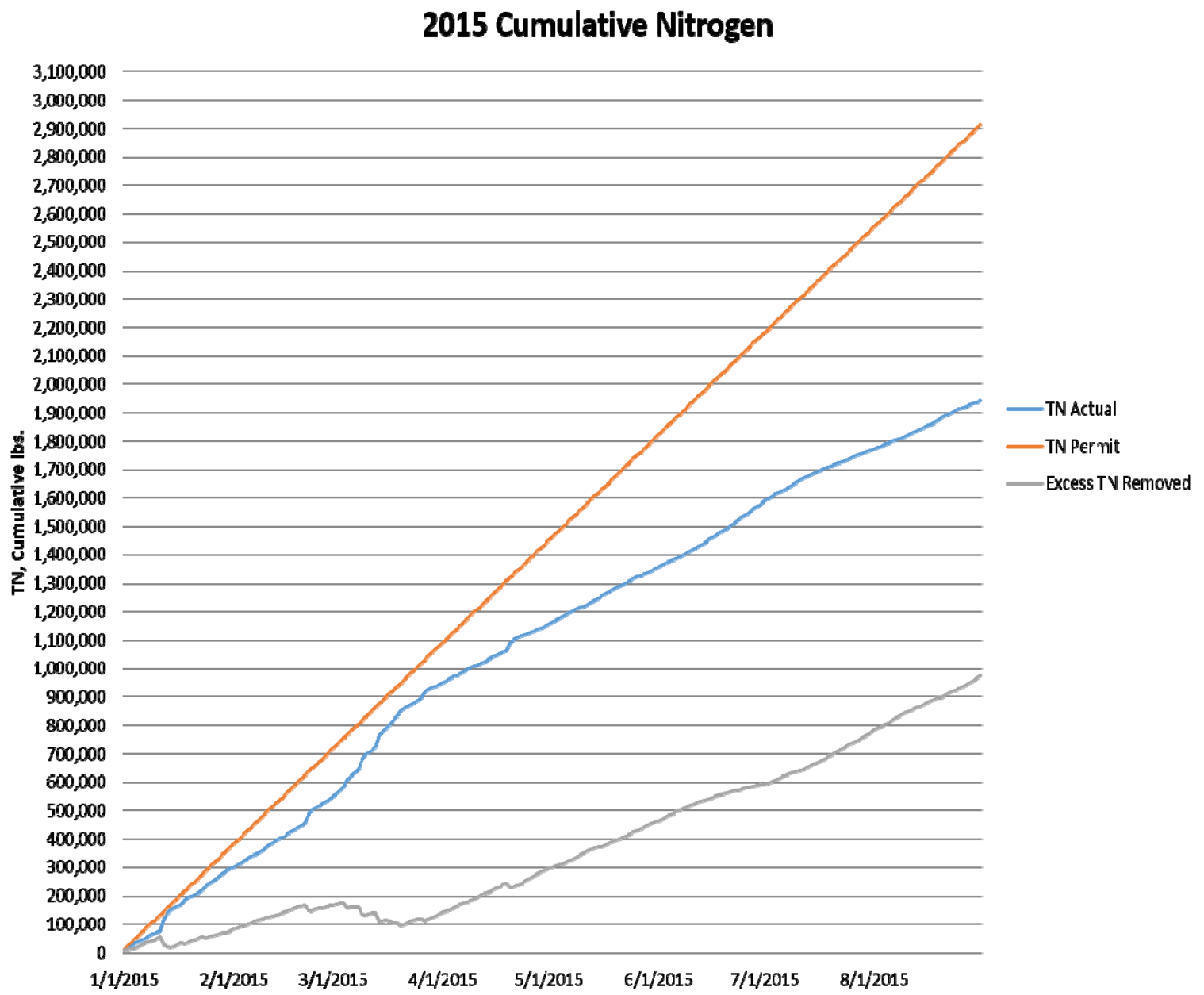
BIOLOGICAL NUTRIENT REMOVAL PERFORMANCE

During the month the full-scale BNR process produced an effluent with average total nitrogen concentration of 2.53 mg/l. The figure below shows Blue Plains effluent total nitrogen (TN) since the implementation of full scale BNR.

Annual Total Nitrogen Load, lbs/yr



TN Removal at Blue Plains is on target to meet and exceed the limits for 2015 as seen in the graph below.



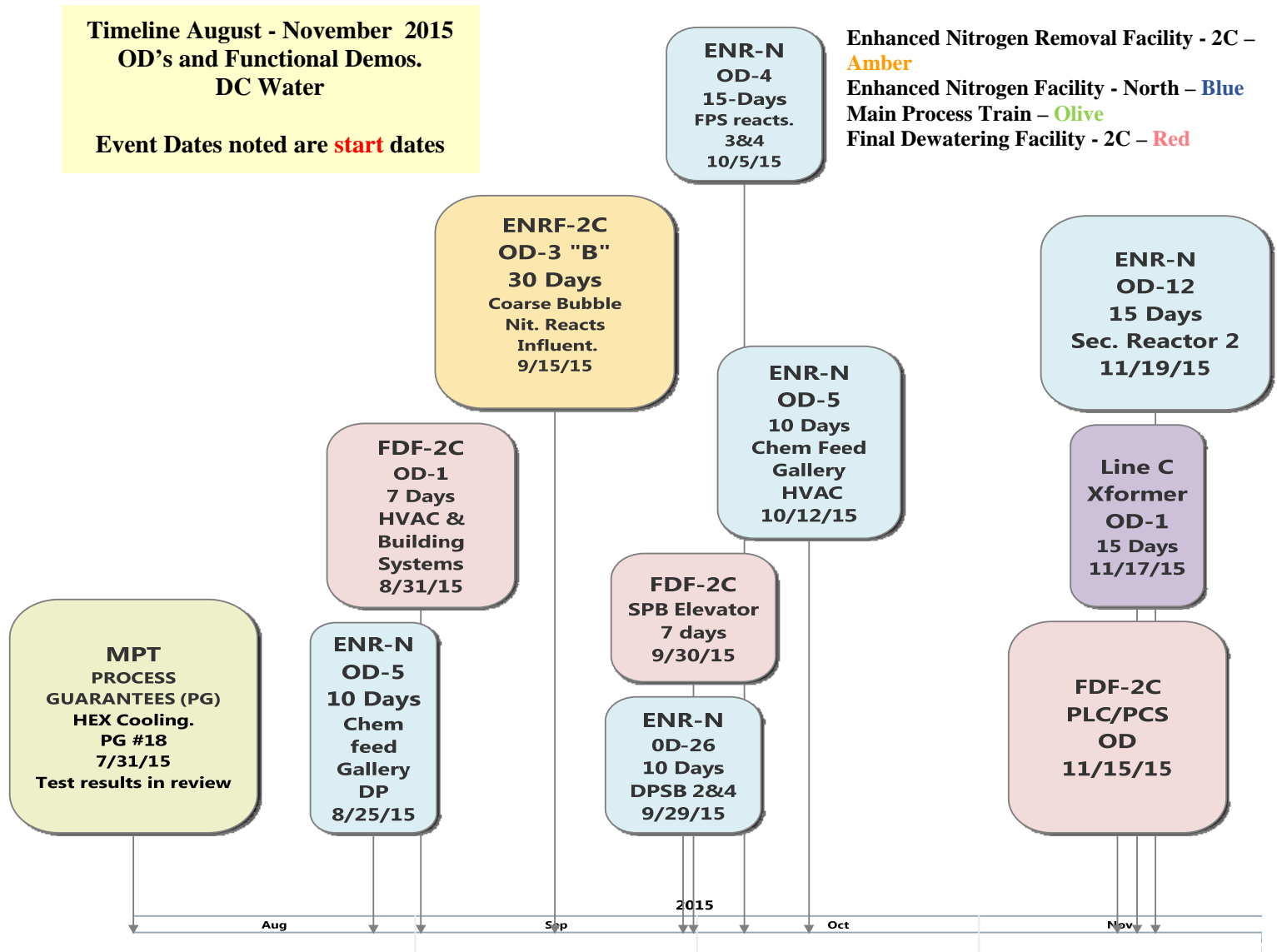
START-UP AND COMMISSIONING UPDATE

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.



One Operational Demonstration for the Enhanced Nitrogen Removal – North contract commenced at the end of this month Chemical Feed Gallery Dewatering Pump. Additionally, MPT the Cooling HEX Performance Guarantee test results are under review.

OPERATIONAL DEMONSTRATION PREPARATION: FOAM PUMP STATION - ENR-N (OD 4)



- This pump station removes foam build-up off of the surface of secondary reactors #3 and #4 discharges it as a waste stream following grinding. Proper foam removal control prevents the accumulation of unwanted foam producing filaments which can result in deteriorated secondary effluent quality and froth buildup to the walk ways. In addition, proper treatment of the wasted foam (grinding), will destroy the filaments and prevent downstream effects.
- A 15 day, 24 hour/day Operational Demonstration slated to start mid-September.
- This OD will test all components associated with the wasting station including *pumping, grinding, piping, electrical and controls*

OPERATIONAL DEMONSTRATION: CHEMICAL FEED GALLERY DEWATERING PUMP - ENR-N (OD 5)



- The chemical feed gallery dewatering pump prevents build-up of both ground water and storm water in the gallery. This is an important aspect of the gallery since ground water intrusion and/or stormwater buildup could result in flooding the gallery and subsequently causing the chlorination and dechlorination pumps to fail which will result in effluent discharge violations.
- A 7day, 24/hour/day Operational Demonstration started on August 25th.
- Tests verified proper operation of the systems *pumping, piping and control* including high and high high level alarms.

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.

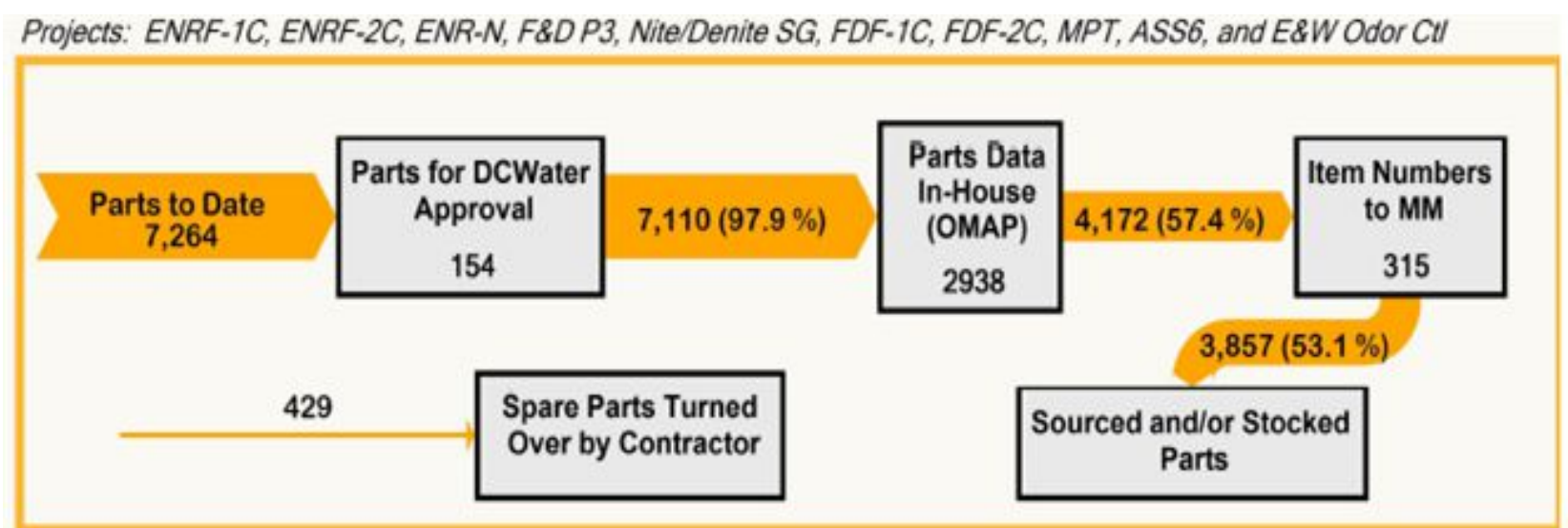
Training completed from July 21, 2015 – August 13, 2015:

- 996 hours of vendor training were completed by DC Water personnel.
- 0 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 August 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:

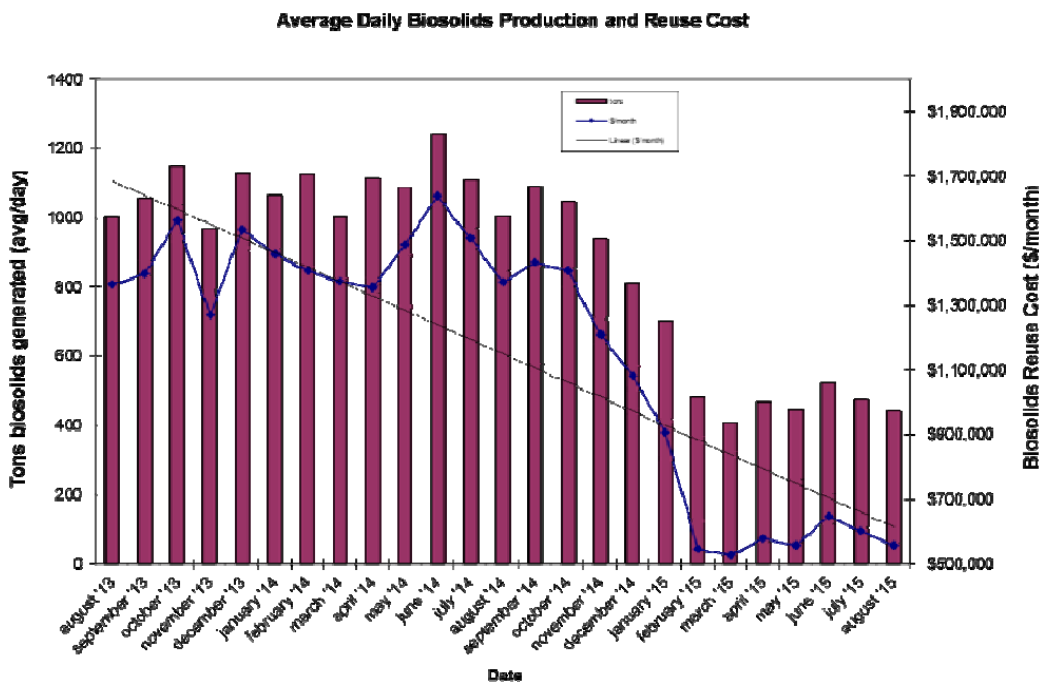
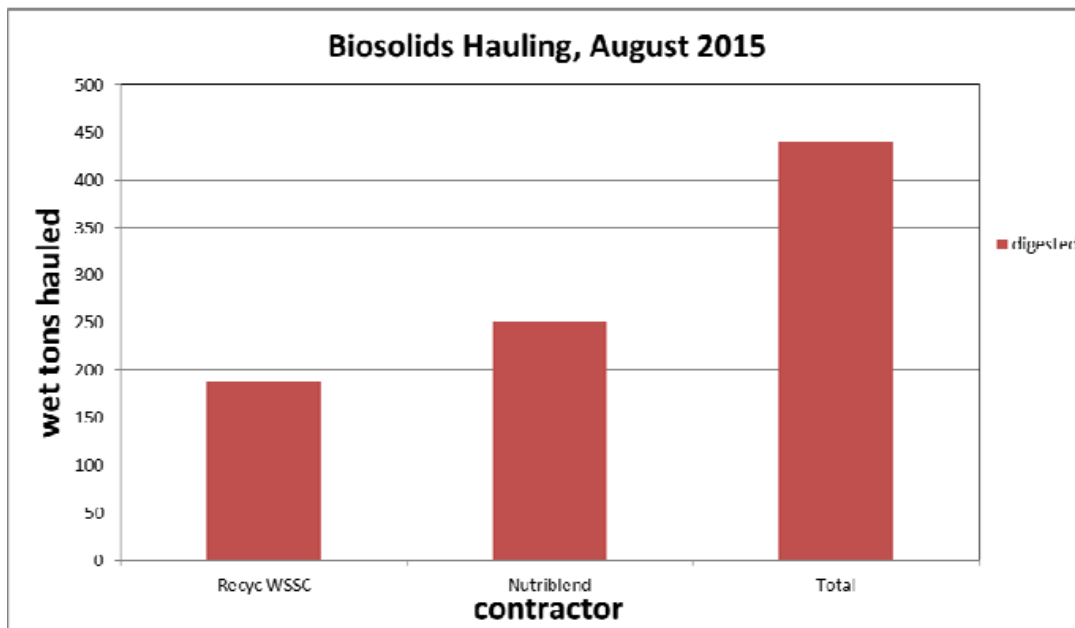


Project Acronym Key:

- ENRF-1C: Enhanced Nitrogen Removal Facility 1st Contract
- 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 SG: Nitrification/Denitrification Electrical Upgrades
- FDF-1C: Final Dewatering Facility 1st Contract
- FDF-2C: Final Dewatering Facility 2nd Contract
- MPT: Main Process Train
- ASS6: Area Substation #6
- E&W Odor Ctl: East and West Odor Control

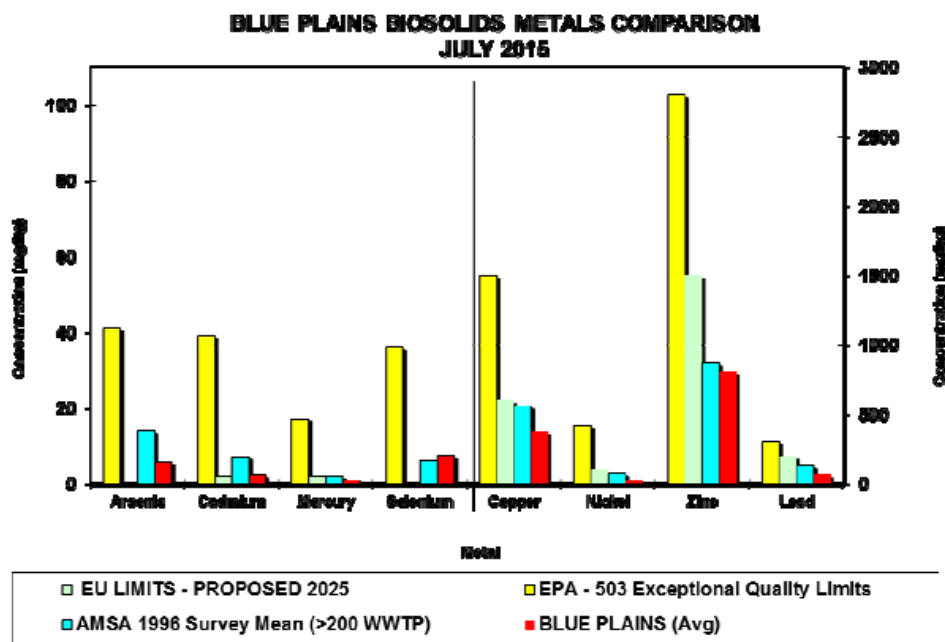
BLUE PLAINS RESOURCE RECOVERY REPORT

In August, biosolids hauling averaged 440 wet tons per day (wtpd). The graph below shows the total hauling by contractor for the month of August. The average percent solids for the digested material was 31.9%. At the end of August the Cumberland County storage pad had approximately 2000 tons (~25,000 tons capacity), Cedarville lagoon had approximately 2026 tons of Blue Plains biosolids (~30,000 tons capacity), and Fauquier lagoon had 2355 tons (~15,000 tons capacity).



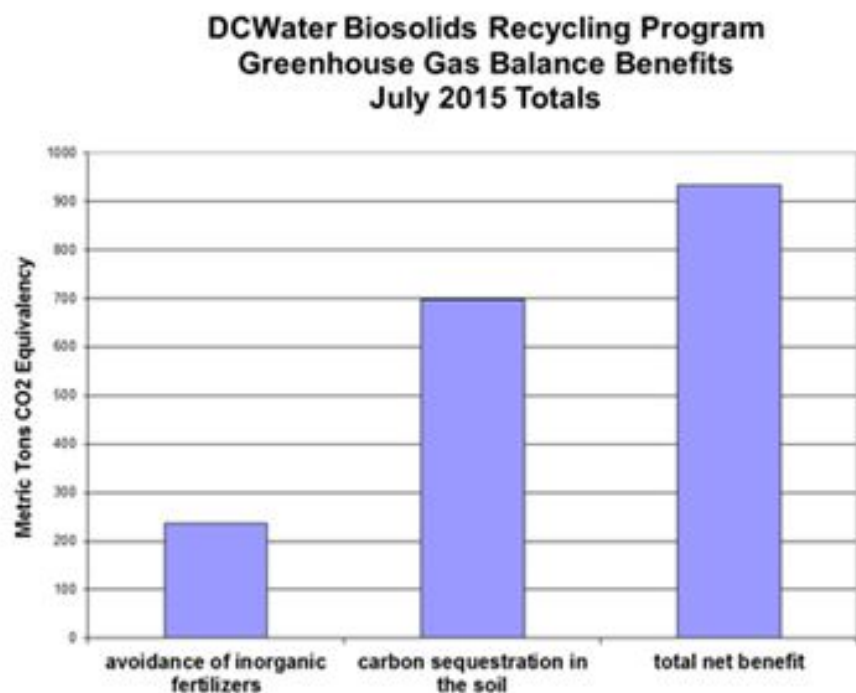
Please note the drop in biosolids management costs (second graph below, right vertical axis) due to the reduction in solids production since digesters came on line, and also due to the drop in fuel costs. In August, diesel prices averaged \$2.81/gallon and with the contractual fuel surcharge the weighted average biosolids reuse cost in August for the two contracts (DC Water and WSSC) was \$40.66/wet ton. For comparison, in August 2014 the average diesel price was \$3.98/gal and the average contract cost was \$43.86/wet ton.

The graphs below show the EPA regulated heavy metals in the Blue Plains biosolids for the month of July 2015. 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.

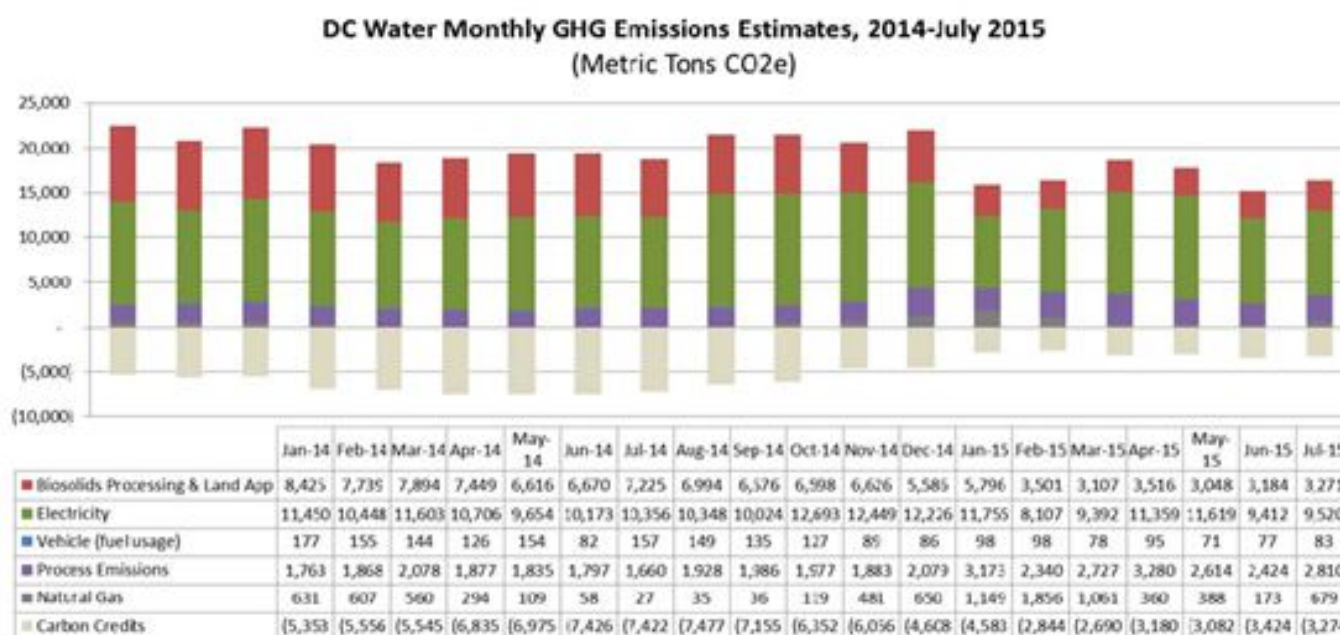


Environmental Benefits

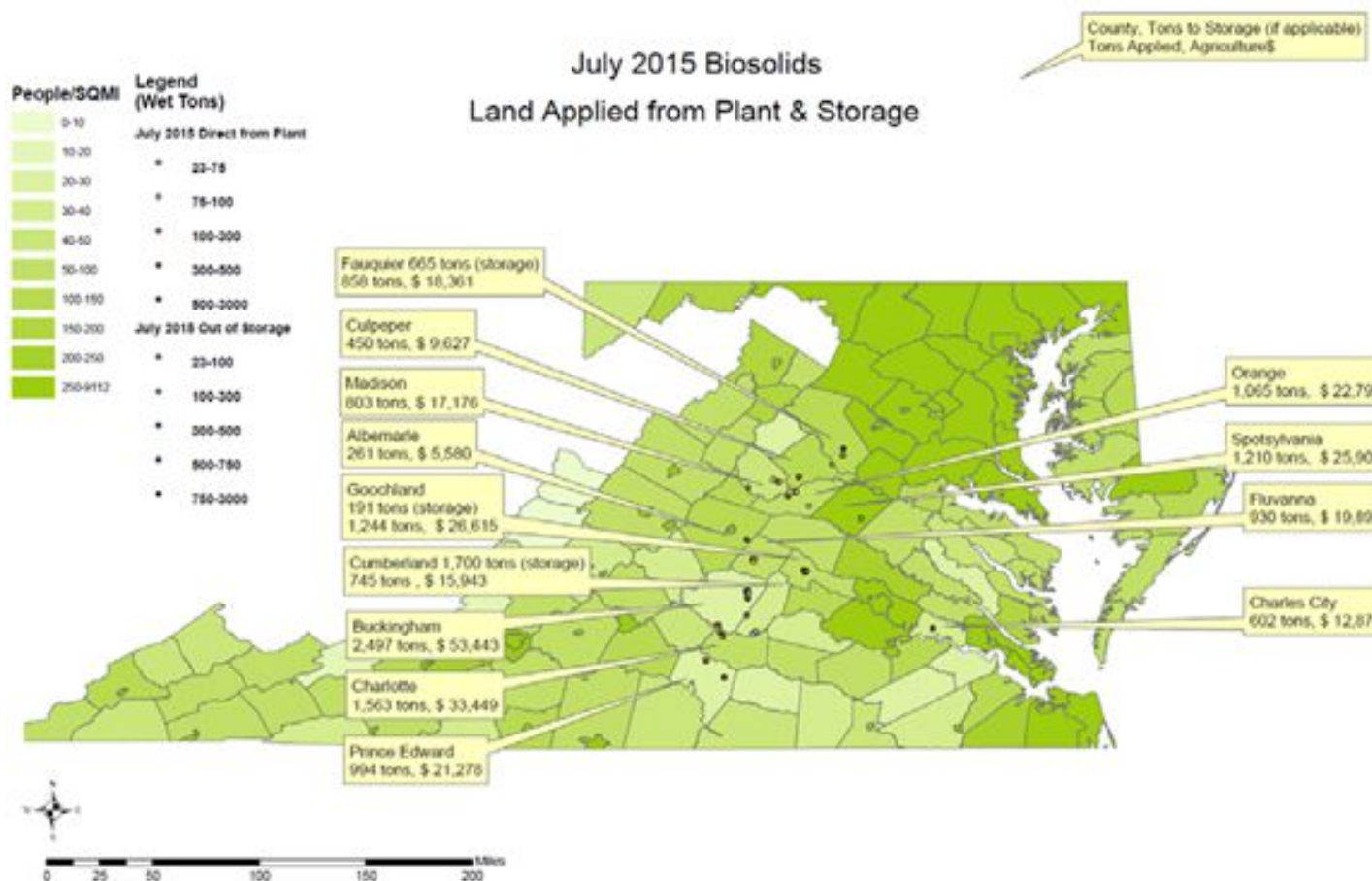
The quantity land applied in July coming directly from the plant and from storage facilities equaled 13,222 tons. Taking into account the fuel required to transport biosolids to the field, the net benefit of the land applied material is 933 metric tons CO₂ equivalent avoided emissions. This is equivalent to taking 2,856,41,900,590 car miles off the road in the month of July (assumes 20 mpg, 19.4 lb CO₂ equivalent emissions/gallon gas – EPA estimate). The cumulative total avoided carbon emission since December, 2006 is 142,000 metric tons CO₂ equivalent.



The graph below shows the monthly calculated carbon footprint for DC Water. The bar graph is broken down by source of emission. The model also contains data for each department within DC Water.



Map of Blue Plains Biosolids Applications and Agricultural \$'s for July 2015



Clean Water Quality and Technology

The Clean Water Quality and Technology department includes the research and development, pretreatment and laboratory programs. A summary of work completed during the past month is provided below.

Research and Development Program

The research and development team continues to work on research topics associated with the planning and operation of Blue Plains. The current focus of research is to optimize the capacity of processes at Blue Plains, and to pave the road for achieving energy neutral operations.

Cambi-AD Filtrate Treatment – Research Update

The last update on this topic was provided in the January report. In this report, we summarized the overall research on Cambi-AD filtrate treatment and the focus on the inhibition characteristics of the filtrate to the organisms involved in the nitrogen removal process. The research goals were the following:

1. Determine limitations of the filtrate treatment process and develop operational strategies to overcome these limitations.
2. Develop strategies to improve the quality of the filtrate before it is sent to the treatment process.
3. Understand the impact of different organic fractions on the activity of the aerobic ammonia oxidizing bacteria (aerAOB), which convert ammonia to nitrite, and the anaerobic ammonia oxidizing bacteria (anAOB), which convert ammonia and nitrite to nitrogen gas.

Bench scale reactors that mimicked the operation of the full-scale filtrate treatment process were operated to investigate these issues. The research work verified that Cambi-AD filtrate characteristics impose limitations on the activity of the aerAOB and anAOB. This, in turn, affects the treatment capacity. However, we were able to identify a process solution to overcome these limitations by operating the process at a higher dissolved oxygen levels (around 1mg/L versus the typical level of 0.3 mg/L).

Furthermore, we have looked into improving the filtrate quality to eliminate or reduce these limitations. We characterized the filtrate into fractions based on particle size and evaluated the inhibitory impact on aerAOB and anAOB for each particle size class. We have also identified what is biodegradable and what is not. The research showed that the aerAOB are most affected by the large colloidal material. Dosing coagulant polymer along with flocculant polymer removed much of this large colloidal material. Thus polymer optimization can help reduce the inhibition. AnAOB are affected by soluble organic compounds. The research team is still searching for ways to remove this material or mitigate its impact on the filtrate treatment process.

All the research done thus far on the inhibitory characteristics of the filtrate has been evaluated for the immediate and direct effect on the organisms (batch tests). Acclimation to these conditions was not evaluated. Hence, the next steps of the research are associated with developing startup strategies to allow for fast enrichment and acclimation. Bench-scale reactors are currently running with two startup strategies. The goal is to use the most promising strategy to operate a larger scale pilot. The pilot will help determine the optimum startup strategy protocol for the full-scale process. Faster

startup of the filtrate process will allow methanol dosages to the mainstream treatment process to be decreased sooner, saving operating funds.

Events:

- **July 16th – 17th – Data Analytics Workshop** – Dr. Sudhir Kshirsagar, president of Global Quality Corp. was the convener of this workshop. The objective of the workshop was to encourage DC Water staff to think of solutions to known problems without restricting their thinking only to problems that can be solved within the limitations of technology/equipment as they know it. Dr. Kshirsagar's effort with Raspberry Pi showed us some non-standard solutions. Goal was for our staff to pair known problems with needed outcomes and then look for technology for this pairing. If a solution does not presently exist and the problem is repeated across industry creating a market for the solution, we will evaluate teaming with an industry partner to develop a solution that can be patented and marketed.
- **Jul 29th and 30th – DC Water 2-day Innovation Workshop.** The innovation team organized a 2-day workshop for implementing new innovation/revenue generation projects within DC Water. The workshop explained approaches to select and execute new projects within DC Water. Some of the research team members are leading or part of task forces for process, service or product concepts. This workshop will help us develop approaches to implement these concepts. The workshop convener is Wayne Fisher, President and Founder, Rockdale Innovation. Wayne Fisher, PhD, founded Rockdale Innovation after retiring from P&G in 2012. While at P&G, Wayne created a series of popular innovation workshops for all phases of new product development. He has trained thousands of managers, providing a common language and framework for innovation, fostering collaboration across P&G's diverse business units and regions. Prior to retiring, he served as a full-time creativity consultant and innovation facilitator at The GYM, an IDEO-inspired design studio in West Chester and a key enabler of P&G's innovation capability.

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.

Industrial Pretreatment Program

DC Water currently manages sixteen (16) Significant Industrial User (SIU) permits and fifteen (15) Non-Significant Industrial User (NSIU) wastewater discharge permits. DC Water administratively extended the NSIU permit for Joint Base Anacostia Bolling this month, due to permit renewal fee payment issues. As soon as payment is received, this permit will be re-issued.

Inspections were conducted at two SIUs this month: National Railroad Passenger Corporation (aka Amtrak, including the High Speed Rail facility) and Alsco. Compliance monitoring was conducted at four SIUs this month: WMATA Brentwood Rail Yard, Naval

Research Laboratory, Amtrak, and Alsco. One Notice of Violation (NOV) was issued to Amtrak on August 6, 2015, for a zinc violation from the High Speed Rail train wash outfall 003 collected on July 16, 2015. A resample was collected by DC Water and Amtrak's contract laboratory on July 30, 2015. All other SIUs and permitted NSIUs are in compliance with discharge standards for the current month.

DC Water currently manages 81 Temporary Discharge Authorization (TDA) permits, primarily for construction site discharges of groundwater and/or surface runoff in the combined sewer area. Six new TDA permits were issued this month. All TDA discharges are currently in compliance with pretreatment standards.

Hauled Waste Program

As of the end of the current month, the hauled waste program had twenty (20) 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 new waste hauler permit was issued this month and two waste hauler permits were renewed this month. DC Water collected fees from eight waste haulers this month, including those on a monthly payment plan option.

DC Water received 405 hauled waste loads (1,261,812 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, both were grease trap loads. One grease trap load was collected on July 9, 2015, from Spartan Sewer Raider, which exceeded discharge standards for pH and TPH. The pH was 4.61 (limit is 5.0 to 10.0), and the TPH concentration was 320 mg/L (limit is 100 mg/L). A Notice of Violation was issued on July 28, 2015. The other grease trap load was collected on July 17, 2015, from Storm Oil, which exceeded the discharge standards for pH and copper. The pH was 4.75 (limit is 5.0 to 10.0), and the copper concentration was 3.2 mg/L (limit is 2.3 mg/L). A Notice of Violation was issued on August 18, 2015.

NPDES Permit Sampling

Pretreatment staff collected the bimonthly metals sample at outfall 002, including low-level mercury using clean sampling techniques. Pretreatment staff also collected one wet weather and one dry weather 24-hour composite sample at outfall 002 and one grab sample at outfall 001 for low level PCB analysis using EPA Method 1668 this month.

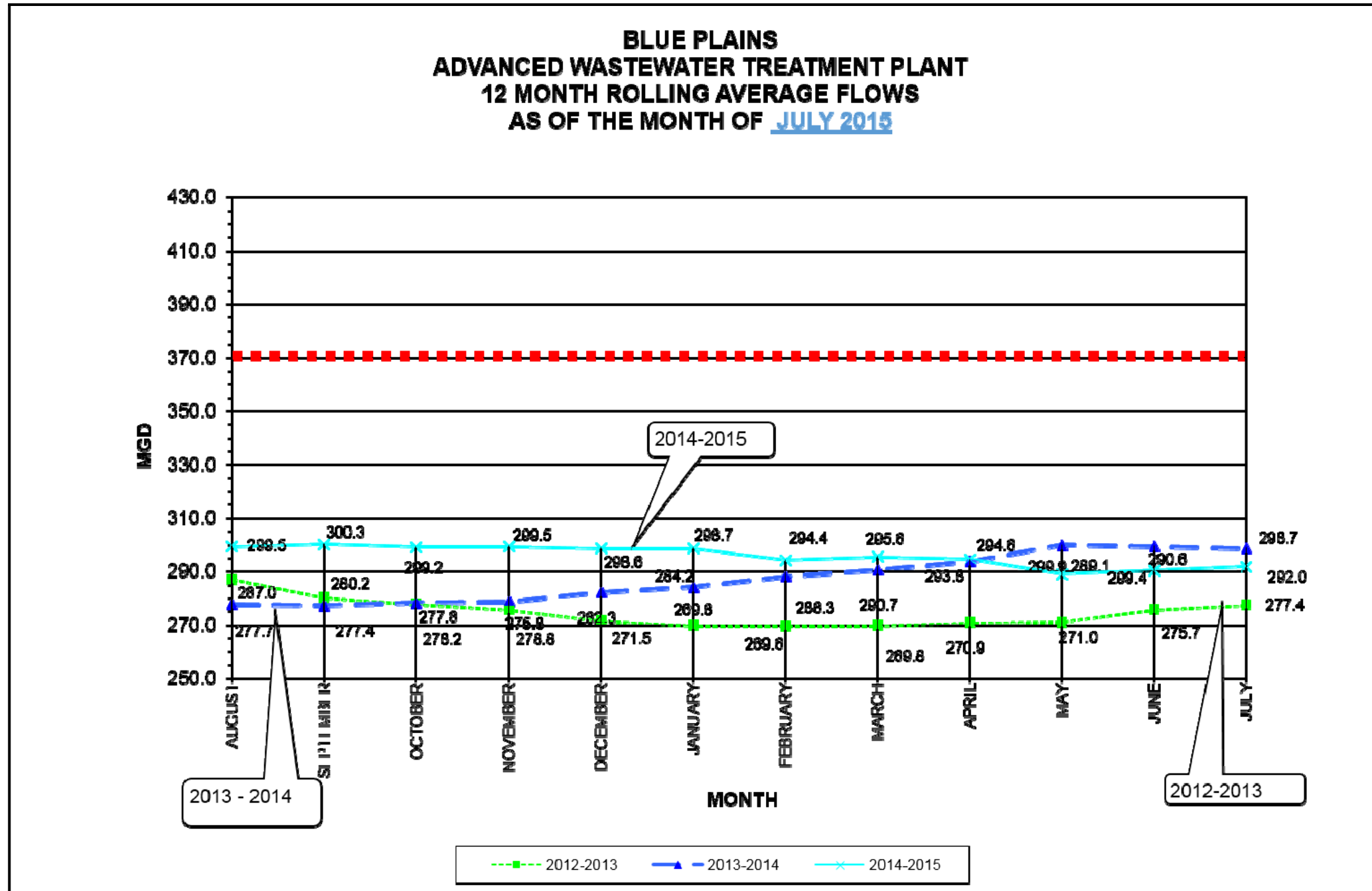
Wastewater Treatment Main Laboratory

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,

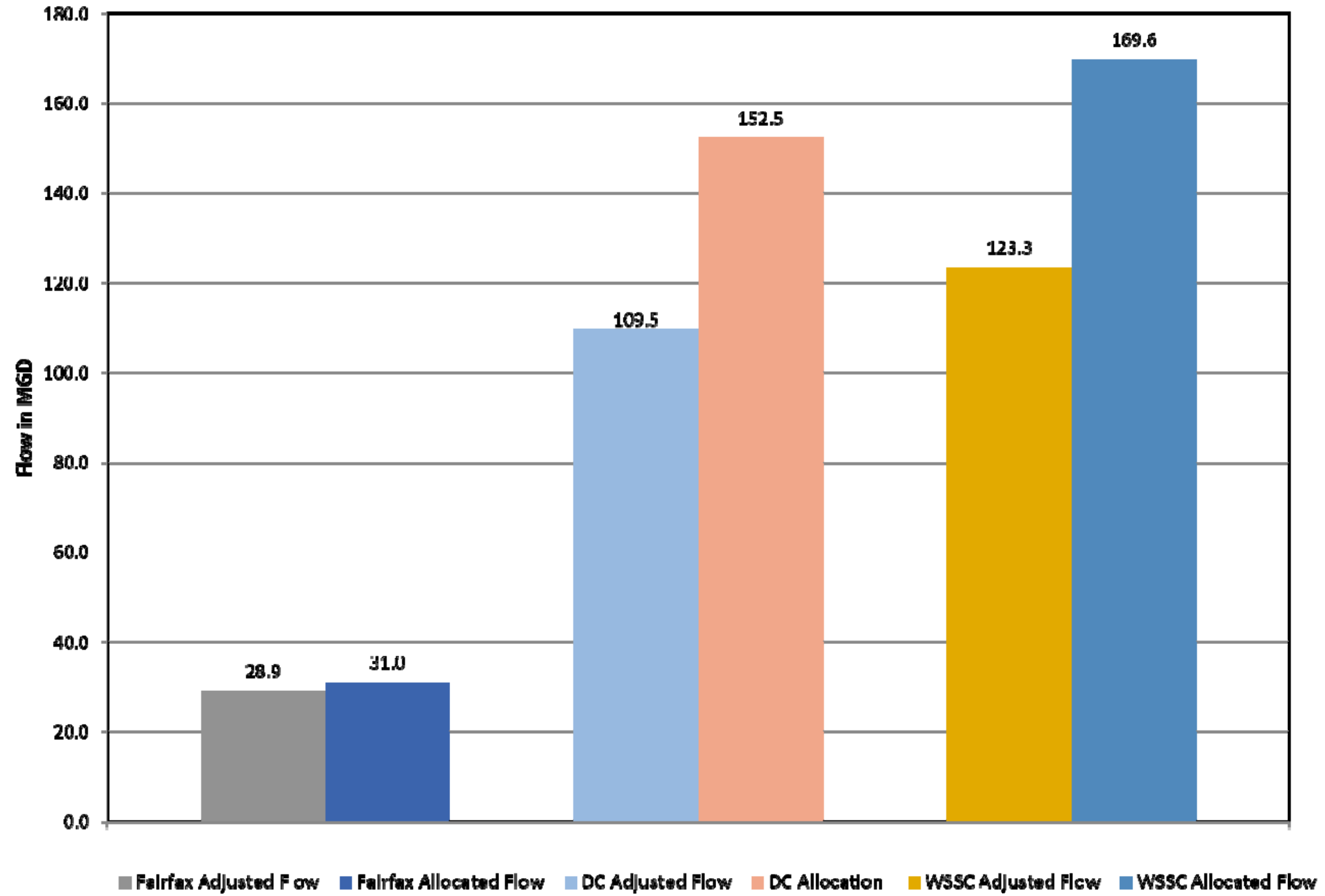
Total and Soluble Kjeldahl Nitrogen, Carbonaceous Biochemical Oxygen Demand, Chemical Oxygen Demand, Total Alkalinity and Hardness, and Fecal Coliform and E. Coli microbiological testing.

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 the analysis of Biosolids Division Belt Filter Press samples for fecal coliform bacteria for DCWater's Class A Biosolids Certification project, as well as digester samples from the new Cambi Thermal Hydrolysis Digestion facility, including Total and Volatile Solids, Total and Volatile Suspended Solids, Ammonia Nitrogen, and pH.



Adjusted Flows vs Allocated Flows - JULY 2015



**Potomac Interceptor Long-Term Odor Abatement
Status Report August 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, treats the gas stream with specialized media and discharges the treated air to the atmosphere.

Project Construction Status: Construction at the DC and three Maryland sites is complete. Construction at the two Virginia sites is ongoing and nearing completion. Project Specific details for each site are provided below.

1. DC Site (Site 1995):

- The facility is down for maintenance as of August 30, 2015 due to a valve actuator malfunction.

2. Maryland Sites:

- *Site 4 (Little Falls PS)* – The facility is running.
- *Site 17 (Beltway)* – The facility is running.
- *Site 27 (Old Angler’s Inn)* – The facility is running and has been continuously operating since July 31, 2015. A carbon media blend that will address both H₂S and DMS has been placed in the existing vessel. No odor has been detected and no complaints have been received since July 31, 2015. Additionally, lab samples were collected to determine the concentrations of odorous sulfur compounds after treatment. Lab analysis of the discharge from the discharge stack has indicated that emissions are below lab detection limits confirming the removal of odorous sulfur compounds by the new carbon.

3. Virginia Sites:

- *Site 31 (Fairfax)* – Under Construction; progressed from 95% to 97% complete. The facility is running but not relinquished to DC Water. The Chimney installation is complete. The Fairfax County Fire Marshall has approved the fire protection system plans and a system inspection is scheduled for September 15, 2015.
- *Site 46 (Loudoun)* – Under Construction; 99% complete. The facility is running. However, interior building work is ongoing for punch list work items. The building will be delivered to DC Water upon training of operations personnel, production of O&M manuals and completion of punch list work items. No odor complaints were received during this period.

Design & Construction Activities	Projected		Actual		Status
	Start	End	Start	End	
Completion of 15-day test of Site 31 (Fairfax)	7/31/15	8/15/15	7/15/15	7/30/15	Complete

Note: Daily observation for odor will continue to be conducted along the Interceptor.

**DC WATER AND SEWER AUTHORITY
BOARD OF DIRECTORS CONTRACTOR FACT SHEET**

ACTION REQUESTED

GOODS AND SERVICES CONTRACT AWARD

(JOINT USE)

SOFTWARE APPLICATION DEVELOPMENT SERVICES

PURPOSE

Approval of \$2,000,000.00 budget for various software application development service projects with 3 selected firms during FY2016 and FY2017. (Budget is cumulative total with all 3 vendors)

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME:	PARTICIPATION:	SUBS:	PARTICIPATION:
Wipro Limited 2 Tower Center Boulevard, Suite 2200 East Brunswick, NJ 08816			
GeoDecisions 207 Senate Avenue Camp Hill, PA 17011-2316			
EMA Services 2355 Highway 36 W, Suite 200 St. Paul, MN 55113			

CONTRACT ACTION

Total cumulative annual budget for Software Application Development Services with all 3 selected firms	\$1,000,000.00
Total two (2) year cumulative budget for Software Application Development Services with all 3 selected firms	\$2,000,000.00
Contract Base Period:	Two (2) years
Number of Option Years:	None
Anticipated Contract Start Date:	10-01-2015
Anticipated Contract Completion Date:	09-30-2017

Purpose of the Contract:

To contract with three (3) selected vendors for various Software Application Services for the District of Columbia Water & Sewer Authority's (DC Water) Department of Information Technology during the contract period.

The procurement method utilized was a Request for Qualifications (RFQ). Four (4) firms responded to the RFP:

Proposal Closing Date:	07-01-2015
Proposals Received:	4
Preference Points Received:	0
Firms Participated (* selected firms):	* Wipro Limited * GeoDecisions * EMA Services Stellar

Wipro, GeoDecisions, EMA Services Limited were selected based on the overall ratings to provide Software Application Services for various projects during the contract period. An IDIQ will be executed with each selected firm. There is no guaranteed spend with any of the selected vendors and DC Water reserves the right to bid individual projects independently. Therefore, for each specific project, Department of Information Technology will select a firm(s) based on the capability, cost, and availability and execute a task order or Statement of Work (SOW) to define the scope of work and total service fee.

The total cumulative spend with all three (3) selected firms shall not exceed the budget shown above. If additional funds are needed in excess of total two (2) year budget, Department of Information Technology will seek Board approval.

PROCUREMENT INFORMATION

Contract Type:	Fixed Hourly Rate	Award Based On:	Highest Rating
Commodity:	Professional Services	Contract Number:	15-PR-DIT-41
Contractor Market:	Open Market with preference points for LBE/LSBE participation		

BUDGET INFORMATION


Funding:	Capital Equipment	Department:	Department of Information Technology
Service Area:	DC Water Wide	Department Head:	Thomas Kuczynski

ESTIMATED USER SHARE INFORMATION *

User	Share %	Dollar Amount
District of Columbia	73.02%	\$ 1,460,400.00
Washington Suburban Sanitary Commission	20.54%	\$ 410,800.00
Fairfax County	4.33%	\$ 86,600.00
Loudoun County	1.82%	\$ 36,400.00
Other Potomac Interceptor	0.29%	\$ 5,800.00
Total Estimated Dollar Amount	100.00%	\$ 2,000,000.00

*The appropriate user share will be based on Information Technology services performed.

 / 9/16/15
 Dan Bae Date
 Director of Procurement

 / 9/11/15
 Gail Alexander-Reeves Date
 Director of Budget

 / 9/11/15
 Thomas Kuczynski Date
 Chief Information Officer

_____/_____
 George S. Hawkins Date
 General Manager

**DC WATER AND SEWER AUTHORITY
BOARD OF DIRECTORS CONTRACTOR FACT SHEET**

ACTION REQUESTED

**GOODS AND SERVICES CONTRACT OPTION
TEMPORARY STAFFING
(JOINT-USE)**

PURPOSE

Approval to execute option year four (4) for temporary staffing services in the amount of \$600,000.

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME: MB Staffing Services, LLC 819 7 th Street, NW Washington, DC 20001	PARTICIPATION: 100%	SUBS:	PARTICIPATION:
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CONTRACT ACTIONS

Actions	Value	Period
Original Contract	\$200,000.00	10/01/11 - 9/30/12
Number of Option Years: 4		
Option Year 1 and 2	\$700,000.00	10/01/12 - 9/30/14
Contract Modifications	\$612,166.48	9/23/13 - 9/30/14
Option Year 3	\$600,437.07	10/01/14 - 9/30/15
Cumulative Contract Value	\$1,962,166.48	10/01/11 - 9/30/15
Cumulative Contract Spend	\$1,707,693.43 *	10/01/11 - 8/31/15
	(* Total expected spend by 09/30/2015 is \$1,962,166.48)	
NEW ACTION:		
Option Year Four	\$600,000.00	10/01/15 - 9/30/16
New Cumulative Contract Value Total	\$2,562,166.48	

Purpose of the Contract:
To contract for temporary staffing services for the District of Columbia Water & Sewer Authority's (DC Water) Department of Human Capital Management.

Contractor's Past Performance:
The contractor's past performance has been satisfactory.

PROCUREMENT INFORMATION

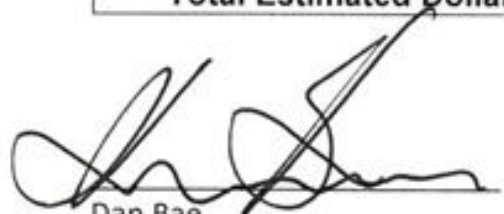
Contract Type:	Requirements Contract/Labor Hour	Award Based On:	Highest Rated Offeror
Commodity:	Temporary Staffing Services	Contract Number:	WAS-11-009-AA-MB
Contractor Market:	Open Market with Preference Points for Local and Local Small Business Enterprise		

BUDGET INFORMATION

Funding:	Operating	Department:	Human Capital Management
Service Area:	DC Water Wide	Department Head:	Rick Green

ESTIMATED USER SHARE INFORMATION

User	Share %	Dollar Amount
District of Columbia	84.40%	\$ 506,400.00
Washington Suburban Sanitary Commission	11.41%	\$ 68,460.00
Fairfax County	2.87%	\$ 17,220.00
Loudoun County	1.16%	\$ 6,960.00
Potomac Interceptor	0.16%	\$ 960.00
Total Estimated Dollar Amount	100.00%	\$ 600,000.00

 9/10/15
 Dan Bae Date
 Director of Procurement

 9/10/15
 Gail Alexander-Reeves Date
 Director of Budget

 9/11/2015
 Rosalind R. Inge Date
 Assistant General Manager
 Support Services

_____/_____
 George S. Hawkins Date
 General Manager



Sourcing Request Form

(Complete this form for all procurement action over \$25,000)

Requestor's Name	Albert A. Williams	Request Date	07/24/2015
Requestor's e-mail	albert.williams@dcwater.com	Requestor's Phone Number	202.787.2390

Department	HCM - Recruitment
Sourcing action requested	<input type="checkbox"/> Supplier Selection (Requests for Proposal or Quote and Requests for Information) <input type="checkbox"/> Supplier Management (Performance Management, Issue Management) <input checked="" type="checkbox"/> Contract Management (Contract Reviews, Termination, Modification, Extension) <input type="checkbox"/> Other

Date when the product or service is needed	Estimated Cost (do not contact suppliers for this information)	Budget allocated

Describe the Business Objective of this Request:

To enable the provisioning of contingent, interim staff on an as needed basis with minimum disruption to normal business operations.

Describe products or services to be sourced:

Contingent, interim staffing services. By engaging contract workers, DC Water is able to be agile and save costs. The contingent workforce acts as a variable workforce to perform specific projects. Also, DC Water makes efforts to quickly respond to change in order to be more competitive. By using contingent labor, allows for adjustments to employment levels and employment costs, depending on the type of expertise that is needed.

Period of Performance (Specify number of months or time period) including options if required and for total performance if appropriate, for each phase of work.

10/1/15 – 09/30/16

Background History (Describe the background or historical information of the procurement. This information will become a part of the solicitation.)

Contract Amount Paid \$1,707,693.43; Contract Balance Remaining \$254,473.05; Current Contract Amount \$1,962,166.48

Special Terms and Conditions (Identify any special terms or conditions that should be included in the vendor selection and contract negotiation. Also, consider if the contractor will require access to classified information.)

Please reserve the amounts listed below for the departments that utilized Mb Staffing temporary services.

Departments	FY16 Amount
Board of Directors	\$ 25,000.00
DETS	\$ 50,000.00
Finance, Accounting & Budget	\$ 165,000.00
General Counsel	\$ 50,000.00
General Manager	\$ 10,000.00
Human Capital Management	\$ 50,000.00
Information Technology	\$ 0.00
Occupational Safety & Health	\$ 50,000.00
Public Affairs	\$ 50,000.00
Wastewater Treatment (Blue Plains)	\$ 150,000.00



Project Risk (Discuss major areas of project risk (for example: if technical spec isn't accurate, delayed, over budget, etc.)
DC Water would run the risk of not meeting scheduled deadlines; not completing assignments due to a shortage of resources.
Project Officers (key personnel for evaluation and decision)

Supplier Information List any Suppliers you are considering:
 (If sole-sourced, completed the Sole-Source Justification Form attached)

Name	Contact Name	E-mail	Phone	Existing Supplier?
Mb Staffing Services	Temporary Staffing Services			

Funding Share:

User	Share %	Dollar Amount
District of Columbia	84.40%	\$ 506,400.00
Washington Suburban Sanitary Commission	11.410%	\$ 68,460.00
Fairfax County	2.87%	\$ 17,220.00
Loudoun County & Potomac Interceptor	1.16%	\$ 6,960.00
Other, Specify	0.16%	\$ 960.00
TOTAL ESTIMATED DOLLAR AMOUNT	100.00%	\$ 600,000.00

Approvals	Signature	Name	Date
Department Head		Rick Green	9/3/2015
Director of Procurement		Dan Bae	9/9/15

**DC WATER AND SEWER AUTHORITY
BOARD OF DIRECTORS CONTRACTOR FACT SHEET**

ACTION REQUESTED

**GOODS AND SERVICES CONTRACT MODIFICATION
MICROSOFT SOFTWARE MAINTENANCE RENEWAL
(JOINT-USE)**

PURPOSE

Approval to execute a modification for software maintenance renewal in the amount of \$600,437.07.

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME: Insight Public Sector, Inc. 6820 S. Harl Avenue Tempe, AZ 85283-4318	PARTICIPATION:	SUBS:	PARTICIPATION:
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CONTRACT ACTIONS

Actions	Value	Period
Original Contract	\$533,359.01	10/1/13 - 9/30/14
Contract Modification Value	\$585,706.39	10/1/14 – 9/30/15
Cumulative Contract Value	\$1,119,065.40	10/1/13 - 9/30/15
Cumulative Contract Spend	\$1,004,609.11	10/1/13 – 8/30/15
NEW ACTION:		
Contract Modification	\$600,437.07	10/1/15 – 9/31/16
New Cumulative Contract Value Total	\$1,719,502.47	

Purpose of the Contract:
To contract for annual software maintenance renewal for all departments in the District of Columbia Water & Sewer Authority (DC Water).

Contractor’s Past Performance:
The contractor’s past performance has been satisfactory.

PROCUREMENT INFORMATION

Contract Type:	Fixed Price	Award Based On:	Not Applicable
Commodity:	Software Maintenance Renewal	Contract Number:	Riding Fairfax County's contract (4400001195)
Contractor Market:	DC Water Wide		

BUDGET INFORMATION

Funding:	Operating	Department:	Department of Information Technology
Service Area:	DC Water Wide	Department Head:	Thomas Kuczynski

ESTIMATED USER SHARE INFORMATION

User	Share %	Dollar Amount
District of Columbia	84.40%	\$ 506,768.89
Washington Suburban Sanitary Commission	11.41%	\$ 68,509.87
Fairfax County	2.87%	\$ 17,232.54
Loudoun County	1.16%	\$ 6,965.07
Other Potomac Interceptor	0.16%	\$ 960.70
Total Estimated Dollar Amount	100.00%	\$ 600,437.07

 7/10/15
 Dan Bae Date
 Director of Procurement

 9/10/15
 Gail Alexander-Reeves Date
 Director of Budget

 9/11/15
 Thomas Kuczynski Date
 Chief Information Officer

_____/_____
 George S. Hawkins Date
 General Manager



Sourcing Request Form

(Complete this form for all procurement actions over \$25,000)

Requestor's Name	Joe Edwards	Request Date	August 4, 2015
Requestor's e-mail	joe.edwards@dcwater.com	Requestor's Phone Number	202-787-2044

Department	
Sourcing action requested	<input type="checkbox"/> Supplier Selection (Requests for Proposal or Quote and Requests for Information) <input type="checkbox"/> Supplier Management (Performance Management, Issue Management) <input type="checkbox"/> Contract Management (Contract Reviews, Termination, Modification, Extension) <input checked="" type="checkbox"/> Other

Date when the product or service is needed 10/01/2015	Estimated Cost \$600,437.07	Budget allocated Operating Budget Share Cost-Dept. Matrix
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Describe the Business Objective of this Request: This renewal provides our email, SharePoint, online storage and office tools support. Also, this keeps our server and desktop software in compliance with Microsoft

Describe products or services to be sourced: Software Licenses Maintenance Renewal

Period of Performance (Specify number of months or time period) including options if required and for total performance if appropriate, for each phase of work. 10/1/15-9/30/16

Background History (Describe the background or historical information of the procurement. This information will become a part of the solicitation.) Our email services are now in the cloud. Prior to our Enterprise agreement, we were using DC OCTO's licenses. Once they did not renew their contract, we were forced to get our own.

Special Terms and Conditions (Identify any special terms or conditions that should be included in the vendor selection and contract negotiation. Also, consider if the contractor will require access to classified information.)

Project Risk (Discuss major areas of project risk (for example: if technical spec isn't accurate, delayed, over budget, etc.) Failure to renew would put our systems at risk: Email, Sharepoint, Windows 7/8, MS Office, Online Storage. Failure to renew the Microsoft Enterprise Agreement all these systems will come to an end.

Project Officers (key personnel for evaluation and decision) Joe Edwards

Supplier Information List any Suppliers you are considering:
 (If sole-sourced, completed the Sole-Source Justification Form attached)



Name	Contact Name	E-mail	Phone	Existing Supplier?

Create check boxes for approvals by IT, Security, Safety & Occupational Health, External Affairs



Funding Share:

User	Share %	Dollar Amount
District of Columbia	84.40%	\$506,768.89
Washington Suburban Sanitary Commission	11.41%	\$68,509.87
Fairfax County	2.08%	\$17,232.54
Loudoun County & Potomac Interceptor	1.16%	\$6,965.07
Other, Specify	0.16%	\$960.70
TOTAL ESTIMATED DOLLAR AMOUNT	100.00%	\$600,437.07

Approvals	Signature	Name	Date
Department Head		Thomas Kuczynski	8/4/15
Budget Director			
Director of Procurement		Dan Bae	9/8/15

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

ACTION REQUESTED

**GOODS AND SERVICES CONTRACT:
LIQUID SODIUM HYPOCHLORITE
(JOINT USE)**

PURPOSE

Approval to execute a contract for the supply and delivery of Liquid Sodium Hypochlorite in the amount of \$3,656,900.00.

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME:	PARTICIPATION:	SUBS:	PARTICIPATION:
Kuehne Chemical Co., Inc. 86 North Hackensack Avenue South Kearny, NJ 07032			

CONTRACT ACTION

Base Year Contract Value:	\$3,656,900.00
Contract Base Period:	12 months
Number of Option Years in Contract:	2
Anticipated Contract Start Date:	10/07/2015
Anticipated Contract Completion Date:	10/6/2018
Bid Opening Date:	5/20/2015
Bids Received:	1
Preference Discount Received	\$0
Unit Cost for Base Year:	\$0.652 per lb.
Quantity for Base Year:	5,608,742 lbs.

Purpose of the Contract:

To contract for the supply and delivery of Liquid Sodium Hypochlorite to the Blue Plains Advanced Wastewater Treatment Plant. This chemical is used for disinfection of the wastewater and it is also one of the chemicals used in the odor control scrubber. Failure to comply with the environmental and permitting regulations can result in fines.

The procurement method utilized was an Invitation for Bid (IFB). One (1) bid was received on May 20, 2015 from Kuehne Chemical Co. Inc. of New Jersey (Kuehne). Kuehne submitted a unit price of \$0.6635 per pound. On June 9, 2015, Kuehne submitted a Best and Final Offer of \$0.652 per pound which is an annual savings of \$64,500.00 from the original bid price.

Kuehne Chemical Co., Inc.

\$3,656,900.00

PROCUREMENT INFORMATION

Contract Type:	Goods and Services	Award Based On:	Lowest Responsive, Responsible Bid
Commodity:	Liquid Sodium Hypochlorite	Contract Number:	15-PR-WWT-21
Contractor Market:	Open Market with Preference Points		

BUDGET INFORMATION

Funding:	Operating	Department:	Wastewater Treatment
Service Area:	Blue Plains AWTP	Department Head:	Salil M. Kharkar

ESTIMATED USER SHARE INFORMATION

User	Share %	Dollar Amount
District of Columbia	41.63%	\$1,522,367.47
Washington Suburban Sanitary Commission	42.96%	\$1,571,004.24
Fairfax County	10.57%	\$386,534.33
Loudoun County	4.25%	\$155,418.25
Other (Potomac Interceptor)	0.59%	\$21,575.71
TOTAL ESTIMATED DOLLAR AMOUNT	100.00%	\$3,656,900.00

 9/10/15
 Dan Bae Date
 Director of Procurement

 9/10/15
 Gail Alexander-Reeves Date
 Director of Budget

 Akile Tesfaye 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

GOODS AND SERVICES CONTRACT OPTION YEAR

**JANITORIAL SERVICES
(JOINT-USE-INDIRECT)**

PURPOSE

Approval to execute option year one (1) for a contract for janitorial services in the amount of \$750,000.00.

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME: M&N Contractors, LLC 77 Randolph Road Silver Spring, MD 20904	PARTICIPATION: 100%	SUBS:	PARTICIPATION:
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DESCRIPTION AND PURPOSE

Actions	Value	Period
Original Contract	\$673,640.52	10/21/14 - 10/20/15
No. of Option Years in Contract: 4		
Contract Modification Value	\$16,119.98	
Cumulative Contract Value	\$689,760.50	
Cumulative Contract Spend	\$514,805.17 *	
(* Total expected spend by 9/30/2015 is \$689,760.50)		
NEW ACTION:		
Option Year 1	\$750,000.00	10/21/15 - 10/20/16
New Cumulative Contract Value Total	\$1,439,760.50	

Purpose of the Contract:

The purpose of this contract is to provide janitorial services at designated DC Water facilities.

Contractor's Past Performance:

The contractor's past performance has been satisfactory.

PROCUREMENT INFORMATION


Contract Type:	Fixed Price	Award Based On:	Highest Ranked Firm
Commodity:	Goods and Services	Contract Number:	14-PR-DFS-08
Contractor Market:	Open Market with preference for certified firms		

BUDGET INFORMATION

Funding:	Operating	Department:	Facilities
Service Area:	DC Water Wide	Department Head:	Johnnie Walker

ESTIMATED USER SHARE INFORMATION

User	Share %	Dollar Amount
District of Columbia	84.40%	\$633,000.00
Washington Suburban Sanitary Commission	11.41%	\$85,575.00
Fairfax County	2.87%	\$21,525.00
Loudon County	1.16%	\$8,700.00
Other Potomac Interceptor	0.16%	\$1,200.00
TOTAL ESTIMATED DOLLAR AMOUNT	100.00%	\$750,000.00

 9/10/15
 Dan Bae Date
 Director of Procurement

 9/11/15
 Gail Alexander-Reeves Date
 Director of Budget

 9/11/2015
 Rosalind Inge Date
 Assistant General Manager, Support Services

 George S. Hawkins Date
 General Manager

**DC WATER AND SEWER AUTHORITY
BOARD OF DIRECTORS CONTRACTOR FACT SHEET**

ACTION REQUESTED

**GOODS AND SERVICES CONTRACT AWARD
(JOINT USE)
WORK AND METER TRUCKS**

PURPOSE

Approval of \$1,420,327.00 budget for work and meter trucks.

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME: National Auto Fleet Group 490 Auto Center Drive Watsonville, CA 95076	PARTICIPATION:	SUBS:	PARTICIPATION:
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CONTRACT ACTION

Purchase of Thirteen Trucks – One Time	\$1,420,327.00
Anticipated Contract Start Date:	10/01/2015
Anticipated Contract Completion Date:	03/31/2016

Purpose of the Contract:

To contract with a firm to provide nine (9) meter and four (4) work trucks for the District of Columbia Water & Sewer Authority's (DC Water) Department of Fleet Management.

DC Water is riding the National Fleet contract NJPA Contract #102811.

PROCUREMENT INFORMATION

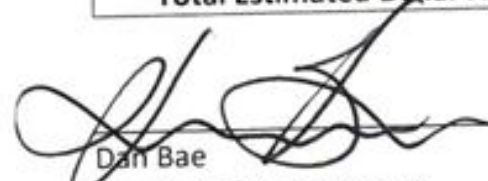
Contract Type:	Fixed Price	Award Based On:	Not Applicable
Commodity:	Meter & Work Trucks	Contract Number:	Riding NJPA Contract #102811
Contractor Market:	Not Applicable		

BUDGET INFORMATION

Funding:	Capital Equipment	Department:	Department of Fleet Management
Service Area:	DC Water Wide	Department Head:	Timothy Fitzgerald

ESTIMATED USER SHARE INFORMATION

User	Share %	Dollar Amount
District of Columbia	73.02%	\$ 1,037,122.78
Washington Suburban Sanitary Commission	20.54%	\$ 291,735.16
Fairfax County	4.33%	\$ 61,500.16
Loudoun County	1.82%	\$ 25,849.95
Other Potomac Interceptor	0.29%	\$ 4,118.95
Total Estimated Dollar Amount	100.00%	\$ 1,420,327.00

 9/11/15
 Dan Bae Date
 Director of Procurement

 9/11/15
 Gail Alexander-Reeves Date
 Director of Budget

 9/11/15
 Rosalind R. Inge Date
 Assistant General Manager
 Support Services

_____/_____
 George S. Hawkins Date
 General Manager

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

ACTION REQUESTED

**CONSTRUCTION CONTRACT:
Pope Branch Stream Restoration
(Non-Joint Use)**

Approval to execute a construction contract for \$3,200,907.00

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME:	SUBS:	PARTICIPATION:
Underwood & Associates, Inc. 901-A Commerce Road Annapolis, MD 21401	James Parker Trucking Washington, DC	MBE 9.45%
	Stefron, LLC. Washington, DC	MBE 6.72%
	J.M. Dorsey, Inc. Westminster, MD	MBE 3.36%
	Frye RW Trucking, LLC. Hyattsville, MD	MBE 2.94%
	Alfredo Trucking, Inc. Annapolis Junction, MD	MBE 3.57%
	Axiom Engineering Design, LLC. Columbia, MD	WBE 1.27%
	Delmarva Trailers Elkridge, MD	WBE 0.07%
	VH Signs Company, Inc. Upper Marlboro, MD	WBE 0.01%
	Atlantic White Cedar Conservation, LLC., Annapolis, MD	WBE 4.69%

DESCRIPTION AND PURPOSE

Contract Value, Not-To-Exceed:	\$3,200,907.00
Contract Time:	240 Days
Anticipated Contract Start Date (NTP):	10-07-2015
Anticipated Contract Completion Date:	04-08-2016
Bid Opening Date:	07-08-2015
Bids Received:	5
Other Bids Received	
Meadville Land Services, Inc.	\$ 3,412,447.50
Environmental Quality Resources, LLC	\$ 3,921,077.00
Environmental Design & Construction	\$ 4,897,821.55
*Corinthian Contractors, Inc.	\$ 2,938,696.82

* Bid was declared non-responsive and rejected.

Purpose of the Contract:

To rehabilitate and restore the Pope Branch Stream located in the southeastern quadrant of the District of Columbia.

Contract Scope:

- Construct approximately 4800 feet of stream restoration work in Pope Branch for the purpose of protecting the existing sewer assets running parallel to the stream.
- Work also includes construction of concrete headwalls, replacement of less than 100 feet of storm drain pipe, flared end sections, temporary access roads, and site restoration.

Federal Grant Status:

- Construction Contract is eligible for Federal grant funding assistance; inclusion in grant is pending availability of grant funds.

Interagency Funding:

- Construction Contract is partially funded by District of Columbia Department of Energy & Environment.

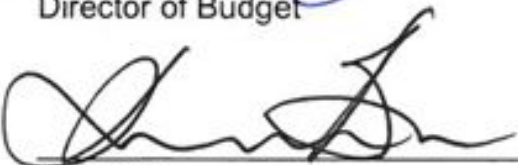
PROCUREMENT INFORMATION			
Contract Type:	Fixed Price	Award Based On:	Lowest responsive, responsible bidder
Commodity:	Construction	Contract Number:	150040
Contractor Market:	Open Market		

BUDGET INFORMATION			
Funding:	Capital	Department:	Engineering and Technical Services
Service Area:	Sanitary	Department Head:	Liliana Maldonado
Project:	Q3		

ESTIMATED USER SHARE INFORMATION		
User	Share %	Dollar Amount
District of Columbia – DC Water	65.80%	\$2,106,907.00
District of Columbia – DOEE	34.20%	\$1,094,000.00
Federal Funds	0.00%	\$ 0.00
Washington Suburban Sanitary Commission	0.00%	\$ 0.00
Fairfax County	0.00%	\$ 0.00
Loudoun County & Potomac Interceptor	0.00%	\$ 0.00
Total Estimated Dollar Amount	100.00%	\$ 3,200,907.00

FOR  9/8/15
 Gail Alexander-Reeves Date
 Director of Budget

_____/_____
 George S. Hawkins Date
 General Manager

 9/9/15
 Dan Bae Date
 Director of Procurement

 9-8-15
 Leonard R. Benson Date
 Chief Engineer



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



September 17, 2015

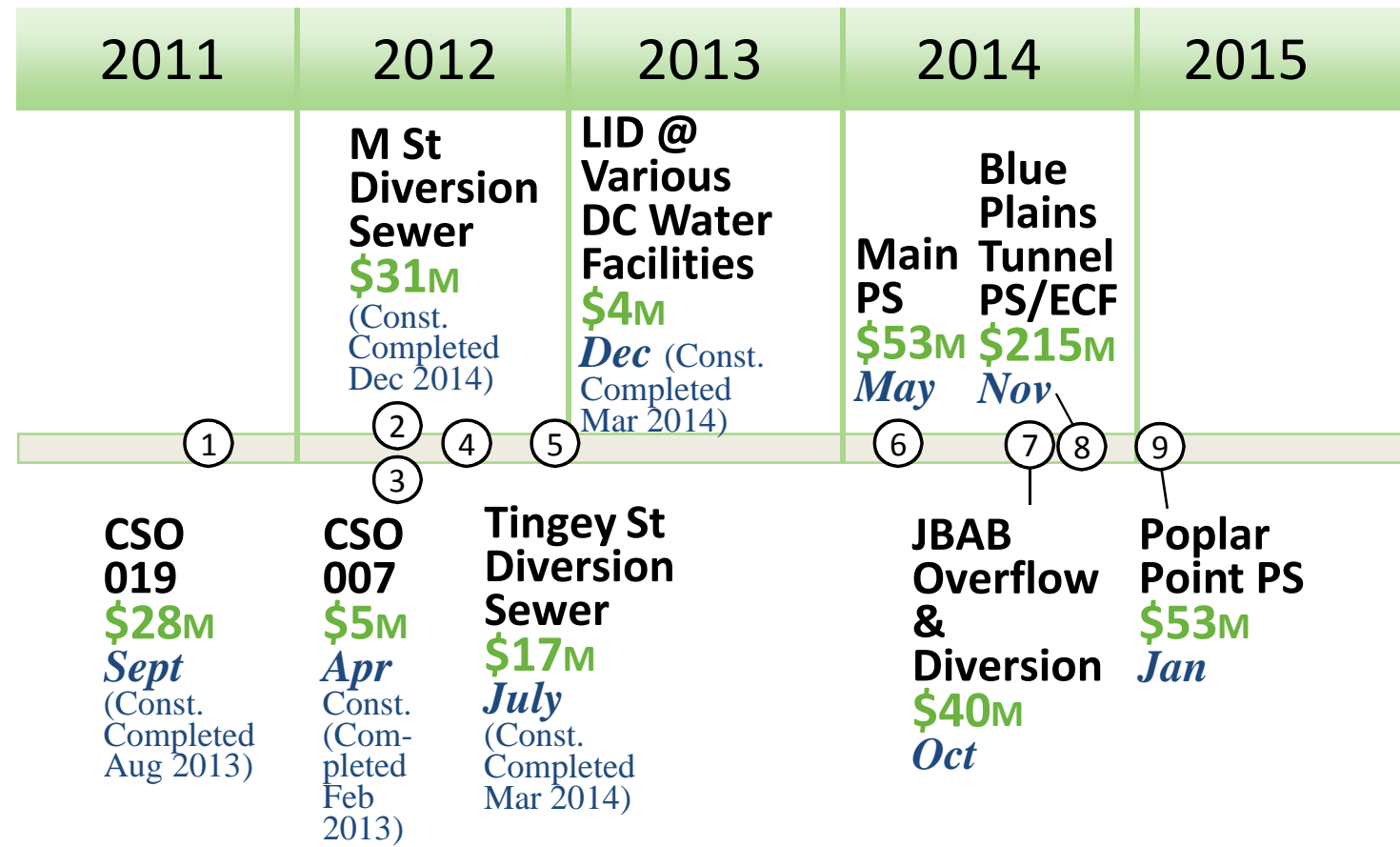
DCWATER.COM

Agenda

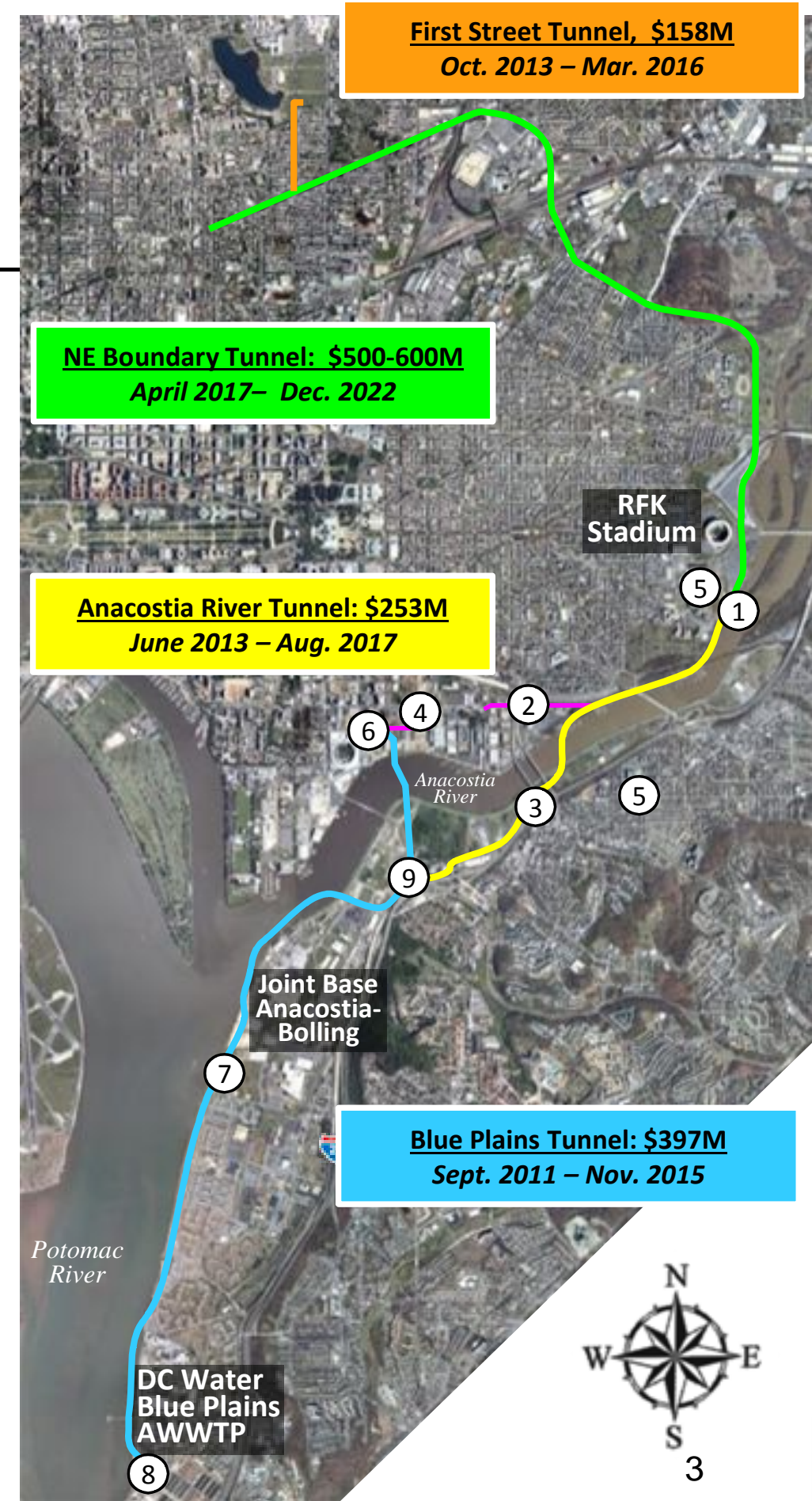
- DC Clean Rivers Projects Implementation Schedule
- Major Accomplishments 2015, second quarter
- Schedule
- CIP Budget Status
- FY 2015 Spending Status
- Summary



Anacostia River Projects: Implementation on Schedule



Months shown on timeline indicate construction start dates.





Job well done, Lady Bird!



MAJOR ACCOMPLISHMENTS THROUGH FY 2015 QUARTER 2 UPDATE





Division A – Blue Plains Tunnel

Progress at-a-Glance

As of July 1, 2015

Design-BUILDER: Traylor-Skanska Jay Dee JV
 Contract Price: \$330M Percent Complete: 93%

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

\$14 M completed to-date
\$500K remaining



BAFB-DS Shaft & Structures

- CIP Concrete liner wall complete
- Drop pipe complete
- Vortex and Overflow channel SOE complete

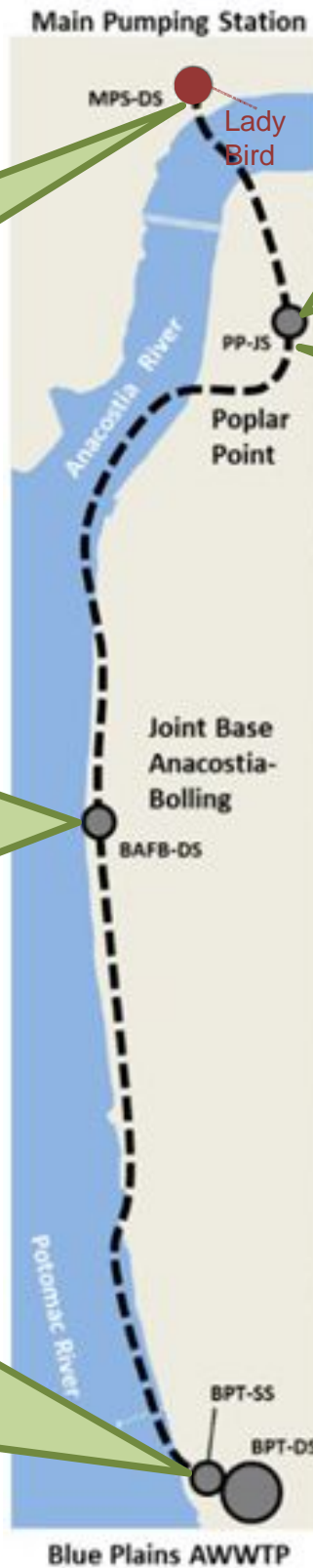
\$15M completed to-date
\$300K remaining



BPT-DS&SS Shaft & Structures

- BPT-SS CIP concrete liner 100% complete
- BPT-DS Base Slab 100% Complete
- BPT-DS CIP Concrete Liner 100% Complete

\$65M completed to-date
\$0M remaining



Approach Channel & Surge Chamber

- Surge Chamber and Approach Channel Complete

\$12M completed to-date
\$0K 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
\$300K remaining



Tunnel Boring Machine & Precast Segments

- TBM mining 100% complete.
- Segments 100% cast & installed.

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

\$100M Tunneling payment to-date
\$5M Tunneling remaining



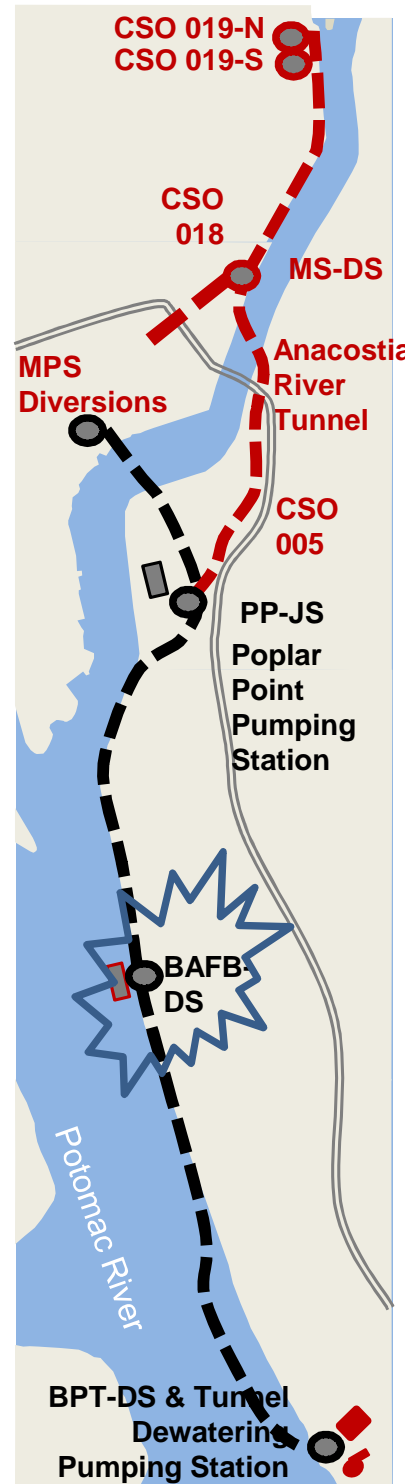
Div D – JBAB Overflow and Diversion Structures

As of July 1, 2015

Design-Builder: **Corman Construction**
Contract Price: \$40M - Percent Complete: 7%

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.

- Started installing Sheet Pile Support of Excavation for Diversion Chamber

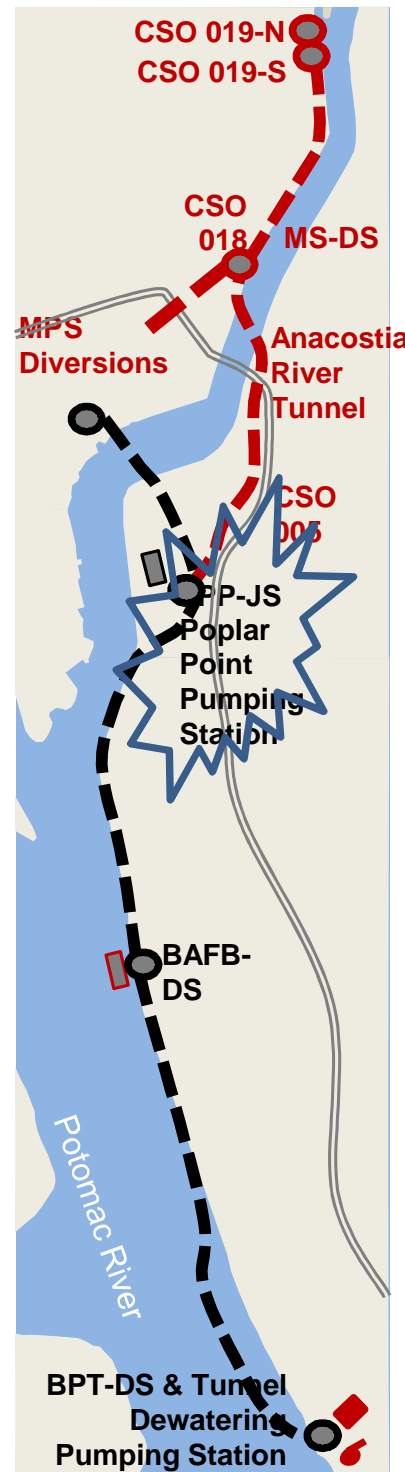


Div Z - Poplar Point Pumping Station Replacement and Main Outfall Sewers Diversion

As of July 1, 2015

Contractor: **EE Cruz**
Contract Price: \$53.4M - Percent Complete 8%

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.



- Continued sheet pile (Support of Excavation (SOE)) installation for Poplar Point Pumping Station and Emergency Overflow Structure (EOS).
- Started excavation of EOS.



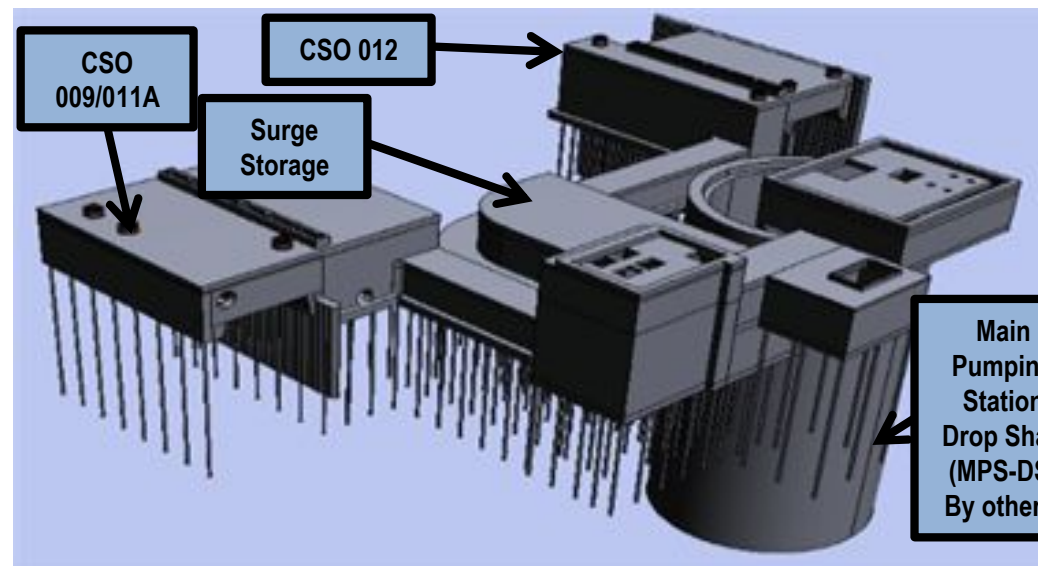
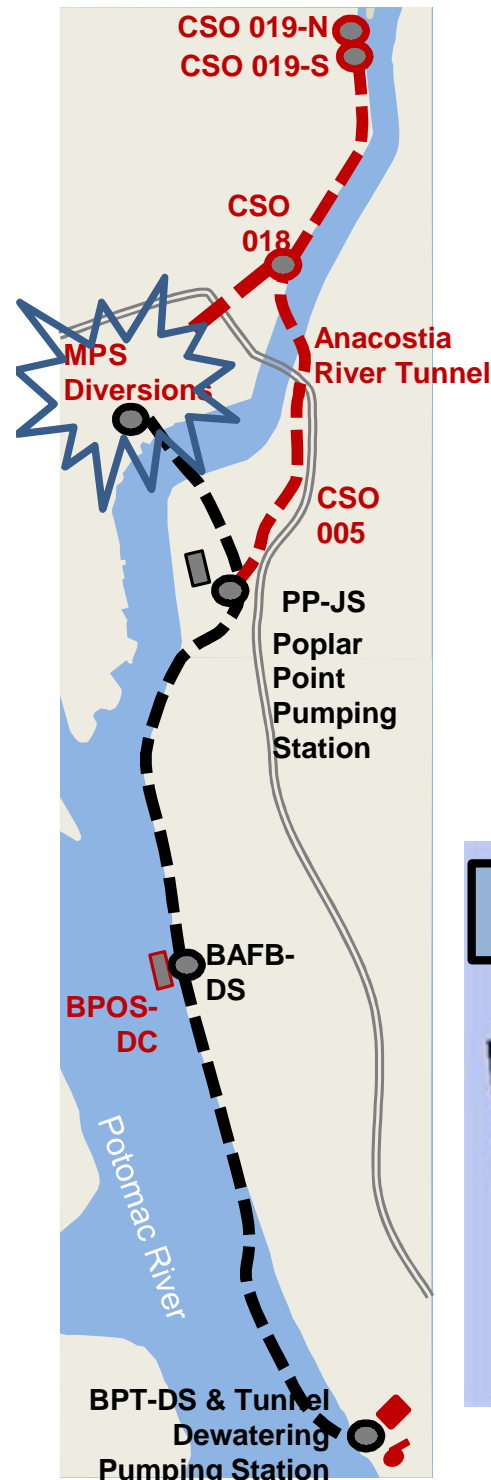
Div I – Main Pumping Station (MPS) Diversions

As of July 1, 2015

Design-Builder: **Corman Construction**
 Contract Price: \$53M - Percent Complete: 11%

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.

- Instrumentation installation ongoing.
- Installed 65 of 152 secant piles (43%).
- Div A Design Builder is occupying site to retrieve TBM while Div I Design Builder continuing installation of secant piles for CSO 012 SOE.





Division H – Anacostia River Tunnel Progress at-a-Glance

Financials as of July 1, 2015

Design-Builder: Impregilo Healy Parsons Joint Venture (IHPJV)
Contract Price: \$253.9M Percent Complete: 42% (\$)/ 50% (time)



CSO 019-CSA Shafts & ISCT

- CSO 019S Cast-in-Place Liner 100% Complete
- Ground remediation efforts have progressed sufficiently to allow dewatering of the N. Shaft and removal of the spoil inflow from the previously excavated portion of the ISCT.

\$ 15.6M completed to-date
\$ 3.4M remaining



CSO 018-CSA Shaft and Structure

- The storm sewer relocation is progressing and will be substantially complete by July 8th
- Shaft excavation has progressed to El. -18

\$ 2.1M completed to-date
\$ 13.1M remaining



M Street CSA Shaft and Site Prep

- June 20, 2015 placed base slab
- Drilling dowels & prep formwork for CIP shaft lining.

\$ 5.6M completed to-date
\$ 4.2M remaining



CSO 007-CSA Shaft and Site Prep

- Capping Beam Complete
- 60% of water discharge line completed.

\$ 1.4M completed to-date
\$ 2.3M remaining

CSO 005-CSA Shaft and Structure

- Slurry Wall 100% Complete
- Capping Beam Complete

\$ 1.38M completed to-date
\$ 4.82M remaining

Tunnel Boring Machine & Precast Segments

- Installed Launch Seal at Soft Eye for TBM
- Segment Production (1421 Rings)

\$ 21.25M TBM payment to-date
\$ 3.75M TBM payment remaining

\$ 12.41M Segment/Forms payment to-date
\$ 5.99M Segments remaining

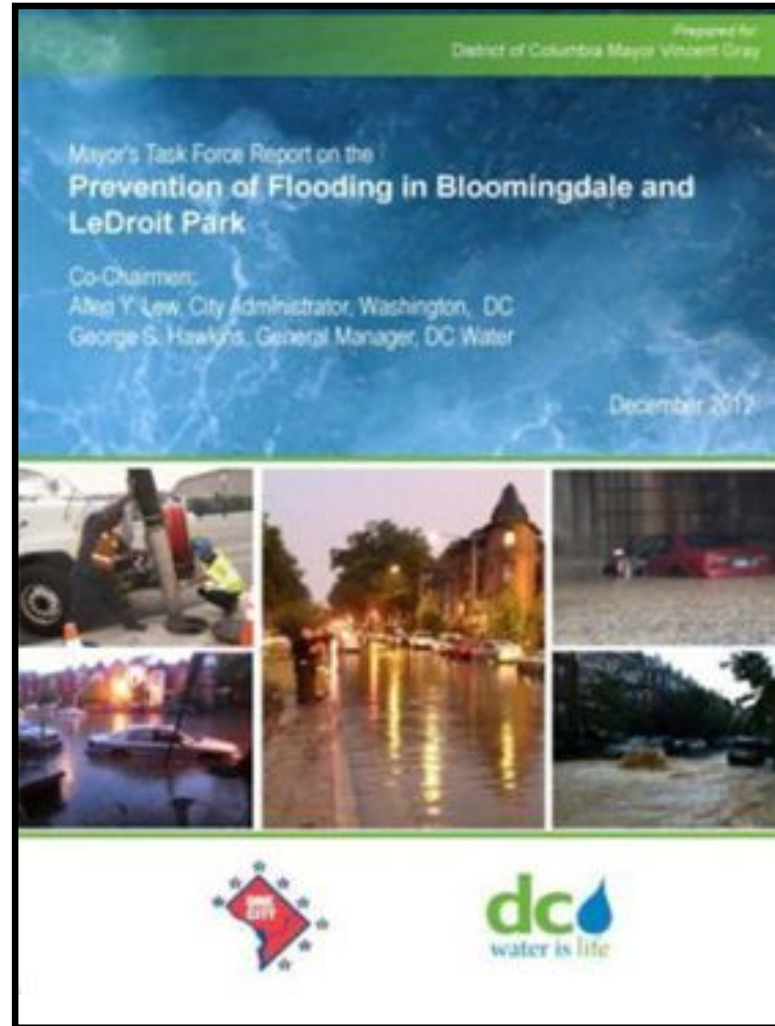


Div H – Ground Inflow Incident at Inter-Shaft Connector Tunnel (ISCT)

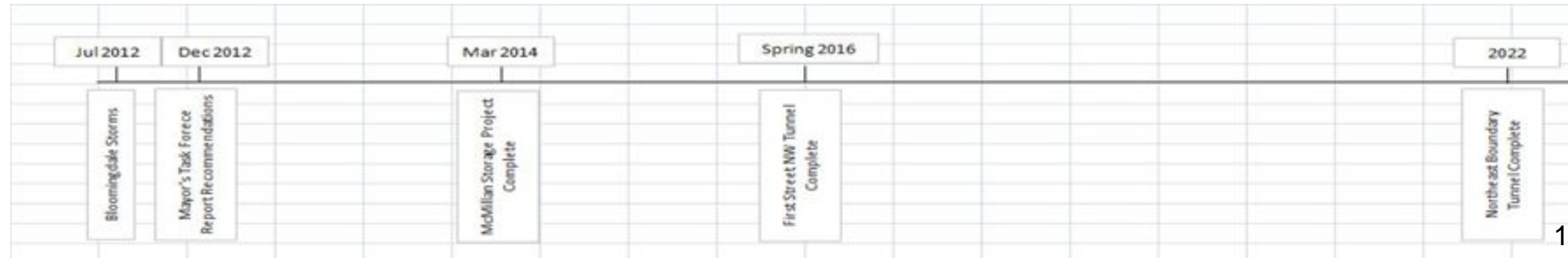
- Incident occurred on 2/11/2015.
- IHP Submitted a Differing Site Condition change notice.
- DC Clean Rivers conducting own investigation.
- IHP jet grouting to stabilize ground and allow for resumption of work at ISCT and CSO 019 North Shaft.
- DC Clean Rivers and IHP cooperating to assess impacts to critical path and allow for schedule recovery.
- Work at other contract divisions can proceed even with impacts due to ISCT to meet DC Water deadlines.



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



Mayor's Task Force Report (Dec 2012)





Division P – First Street Tunnel Progress at-a-Glance

Financials as of July 31st, 2015

Design-Builder: **Skanska Jay Dee JV**
Contract Price: \$157.6M Percent Complete: 63.2%

Adams Street – Drop Shaft

- Finished shaft excavation.
- Installed rebar, concrete forms & poured invert slab.



AS – Diversion Chamber

- Continue installing and welding wales for bracing level 1 & 2.
- Demo existing sewer pipe & installed flume pipe.



Pump Station-Drop Shaft

- Continue freeze formation at Drop Shaft & Adit.
- Installed rebar, concrete forms & poured invert slab.
- Installed rebar, concrete forms & poured concrete for CIP Lift No 1.



TBM Mining & Lining

- Installed temporary rings & launch frame.
- Started mining through shaft wall.
- Installed ring No 8.



V Street NCS-DC

- Continue excavating.
- Installing bracing Level 1-2.
- Exposed sewer line.



V Street Adit Tunnel

- Started Sequential Excavation Method (SEM).



Div U: Advance Utility Relocations for Northeast Boundary Tunnel

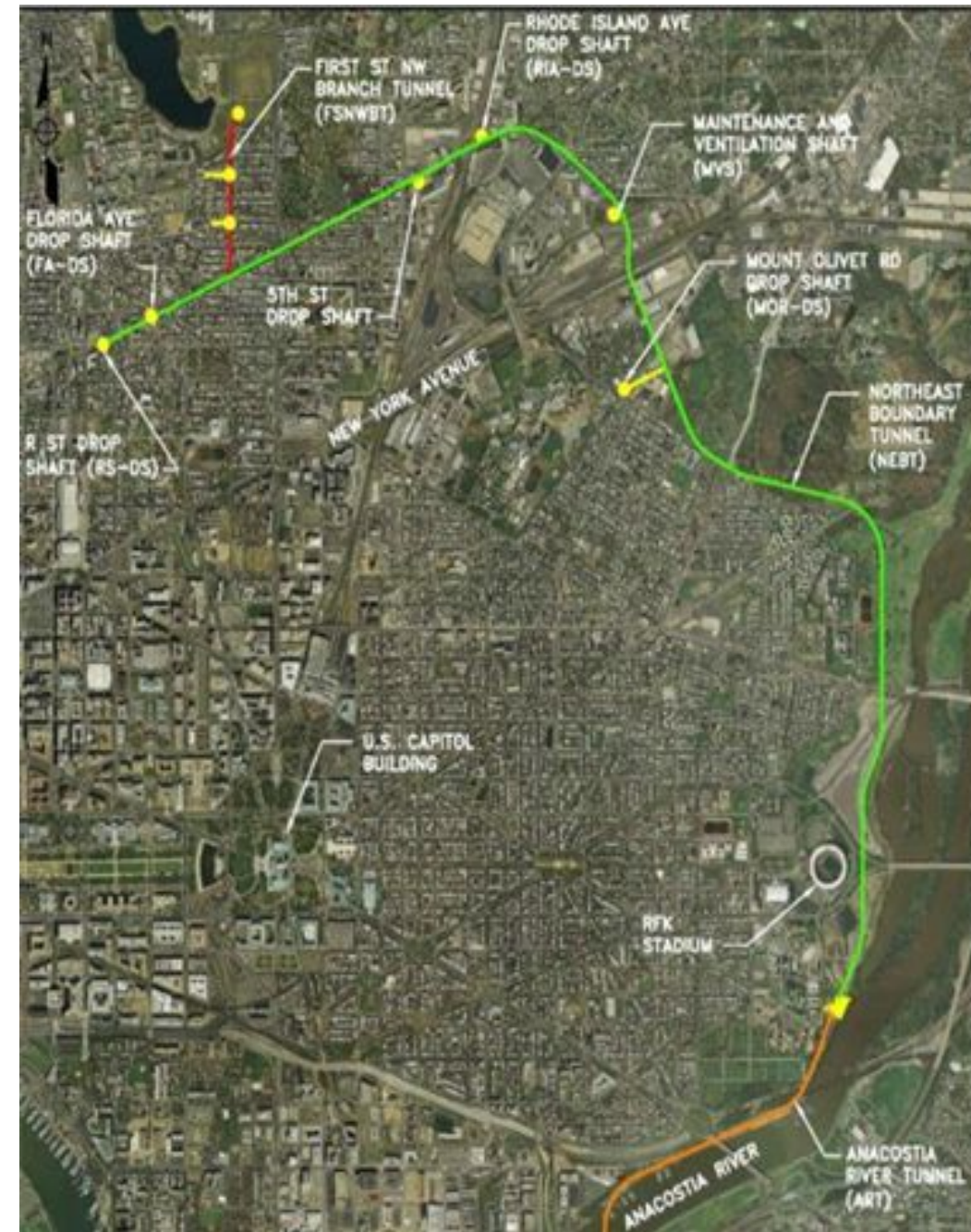
- Purpose: Clear surface work sites to make way for Tunnel Contractor.
- Continued final design work.
- Continued to hold meetings with various DC Water Departments, Washington Gas, Pepco, Verizon and Comcast to discuss utility relocations.
- RFQ issued in July 2015.
- RFP planned for October 2015.
- Industry Outreach held on July 21, 2015.
- Construction is planned to start in May 2016 and continue for 18 months.



Example: 4th & Rhode Island Ave NE

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



Dates				
Design	Construction			
	RFQ	RFP	NTP	Completion
DB	Oct-15	Feb-16	Apr-17	2022

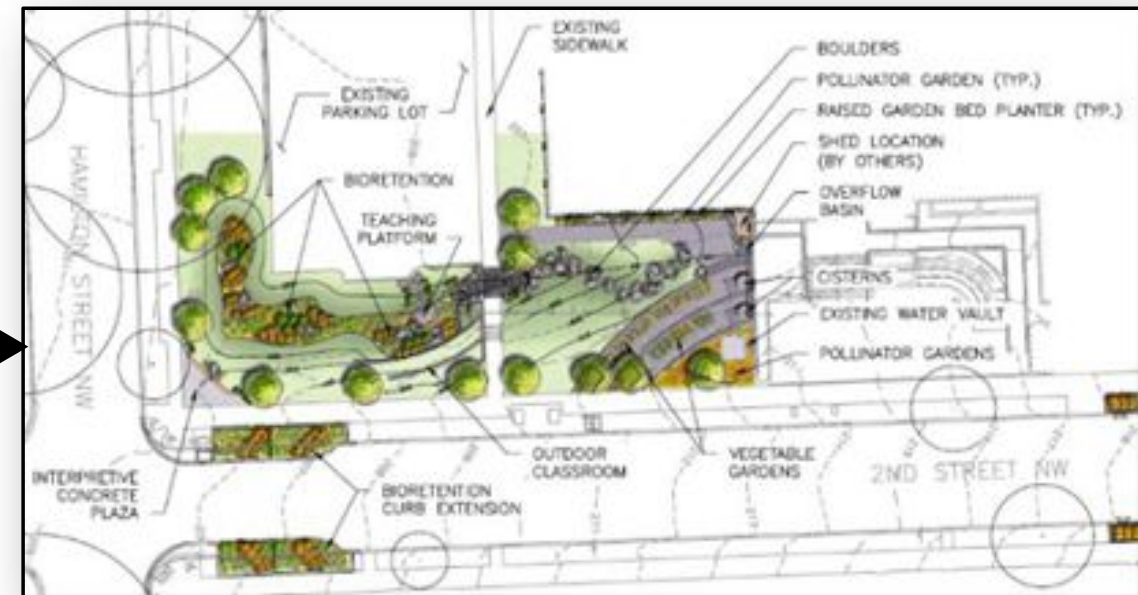
Div J: Northeast Boundary Tunnel

- Revised schedule includes Design NTP in April 2017, TBM Procurement in October 2017, Construction NTP in April 2018.
- Held workshops with DDOT Traffic Operations and Pedestrian Safety groups to review proposed traffic, pedestrian and bicycle impacts.
- Submitted 90% Construction Staging Area Package to DDOT.
- Acquired DPW easements for W Street, West Virginia and Okie Street sites.
- Received agreement on MOU with DDOE for soil borings, ground improvement, support of excavations and dewatering – awaiting signature.
- Prepared 90% RFP Documents for DC Water Review.



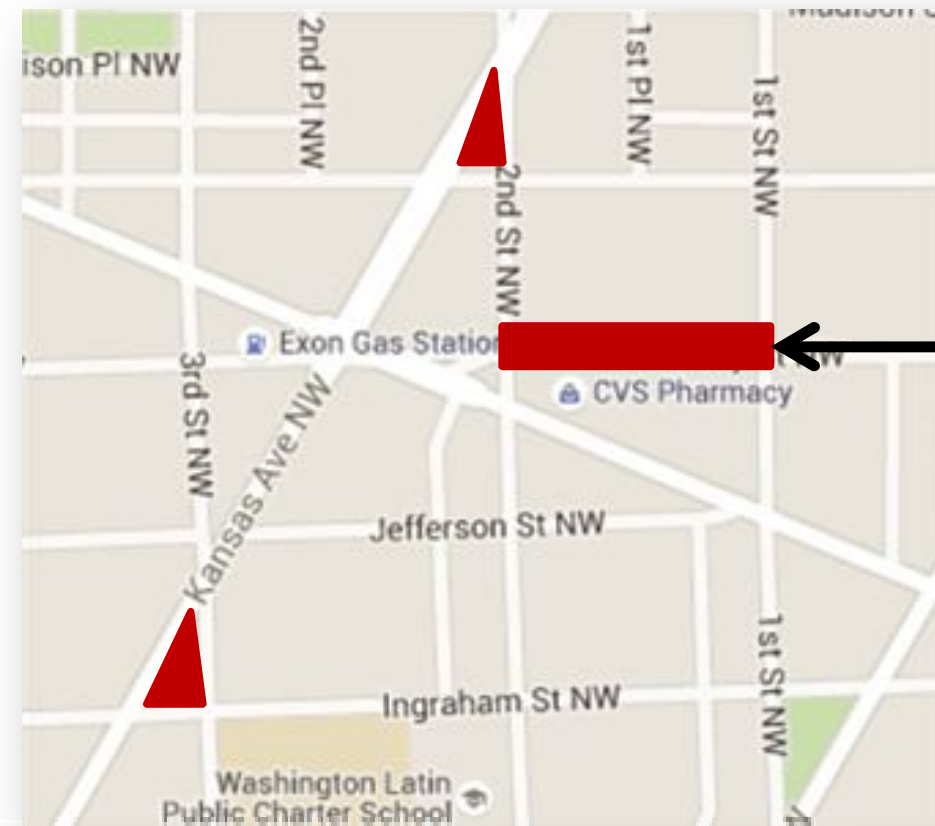
Early Action GI Collaboration with Schools

- Concept Plans completed for Washington Latin PCS and Paul PCS and school administrations have provided formal support
- Washington Latin PCS Concept Design Includes:
 - Downspout disconnection, rain barrels, swale, bioretention, outdoor classroom space, and interpretive signage
- Paul PCS Draft Concept Includes:
 - Downspout disconnection, bioretention, interpretive signage, and seat walls
- Projects anticipated to be constructed under first GI project in Rock Creek under the Consent Decree Modification

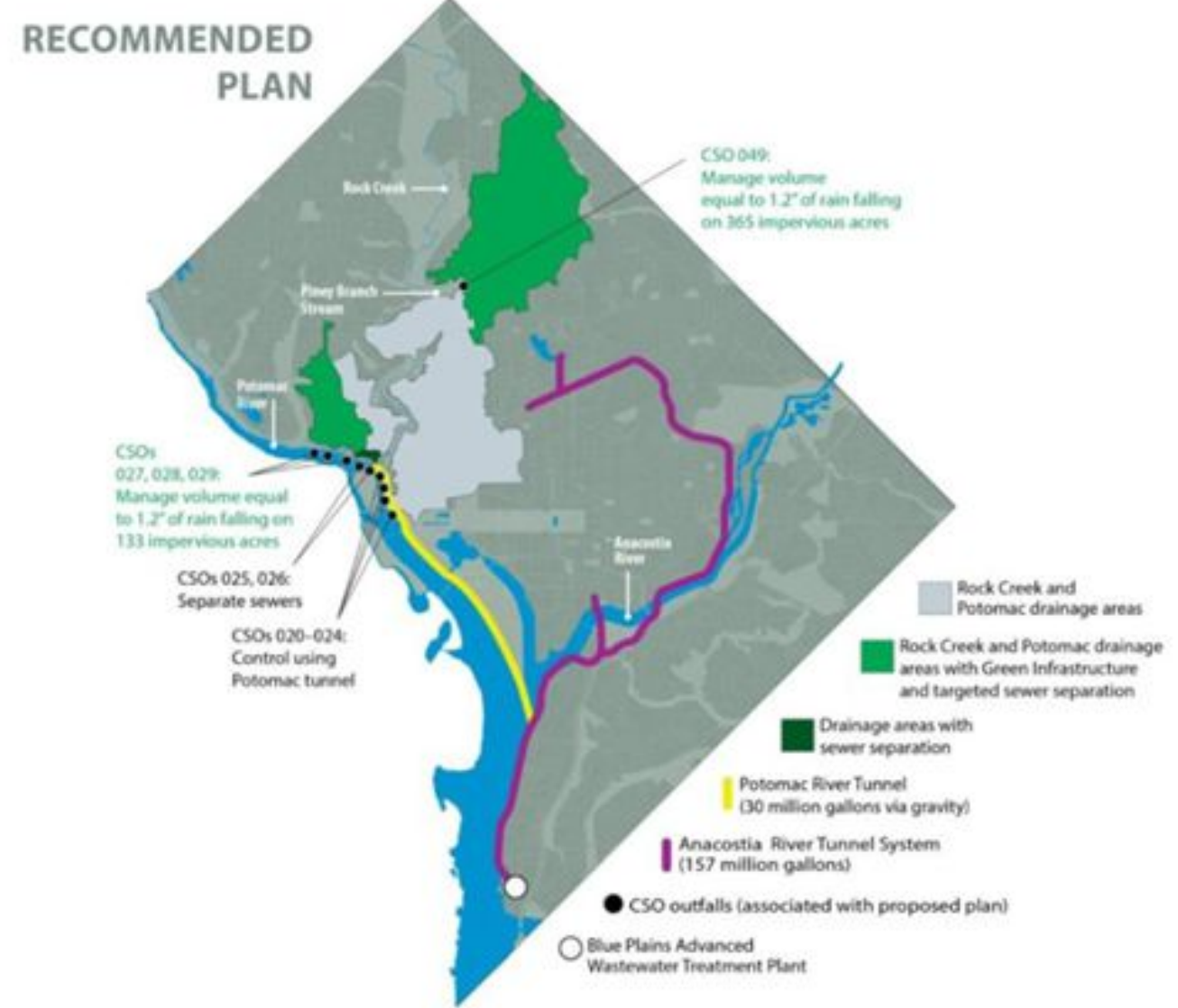
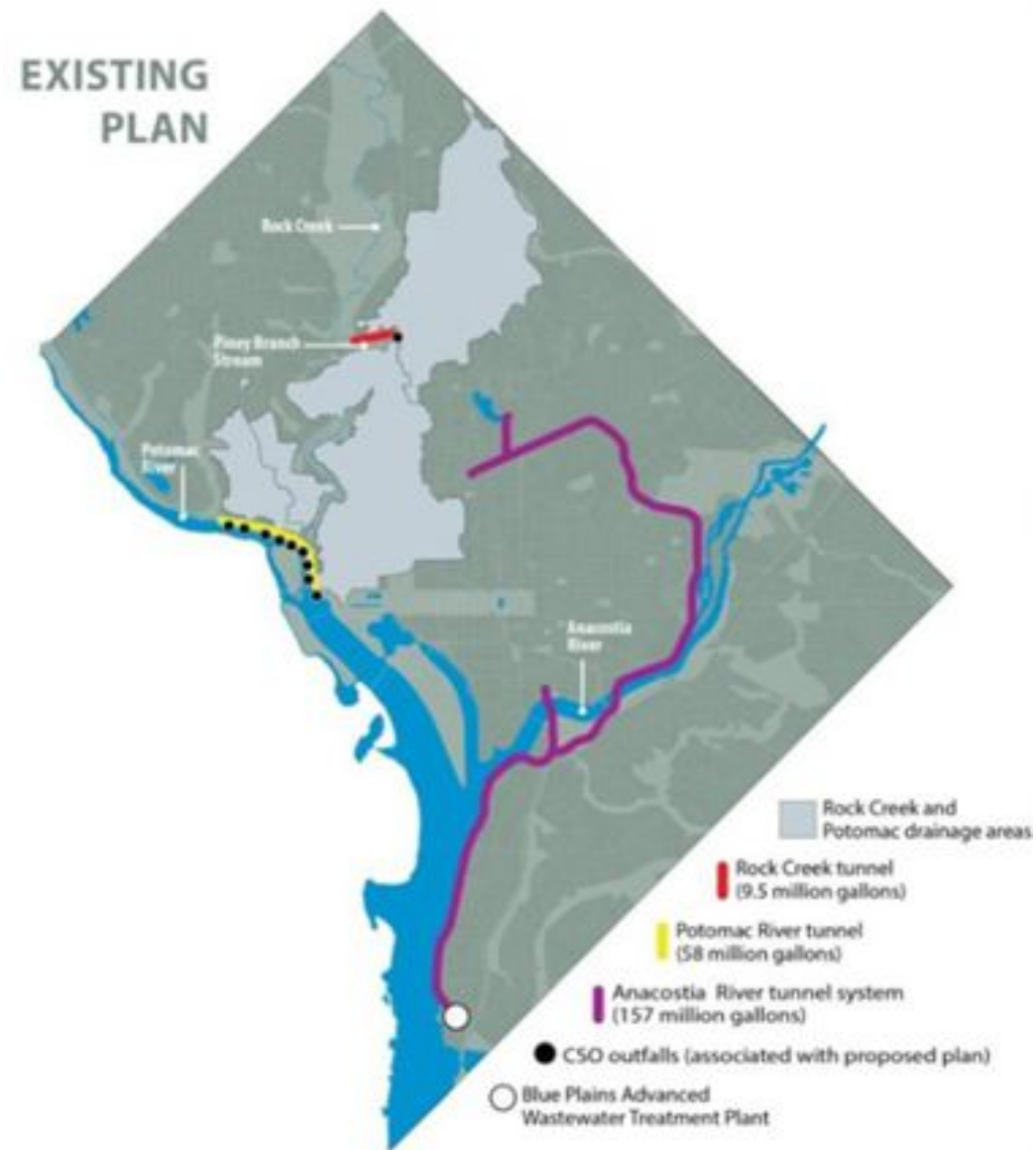


GI Challenge

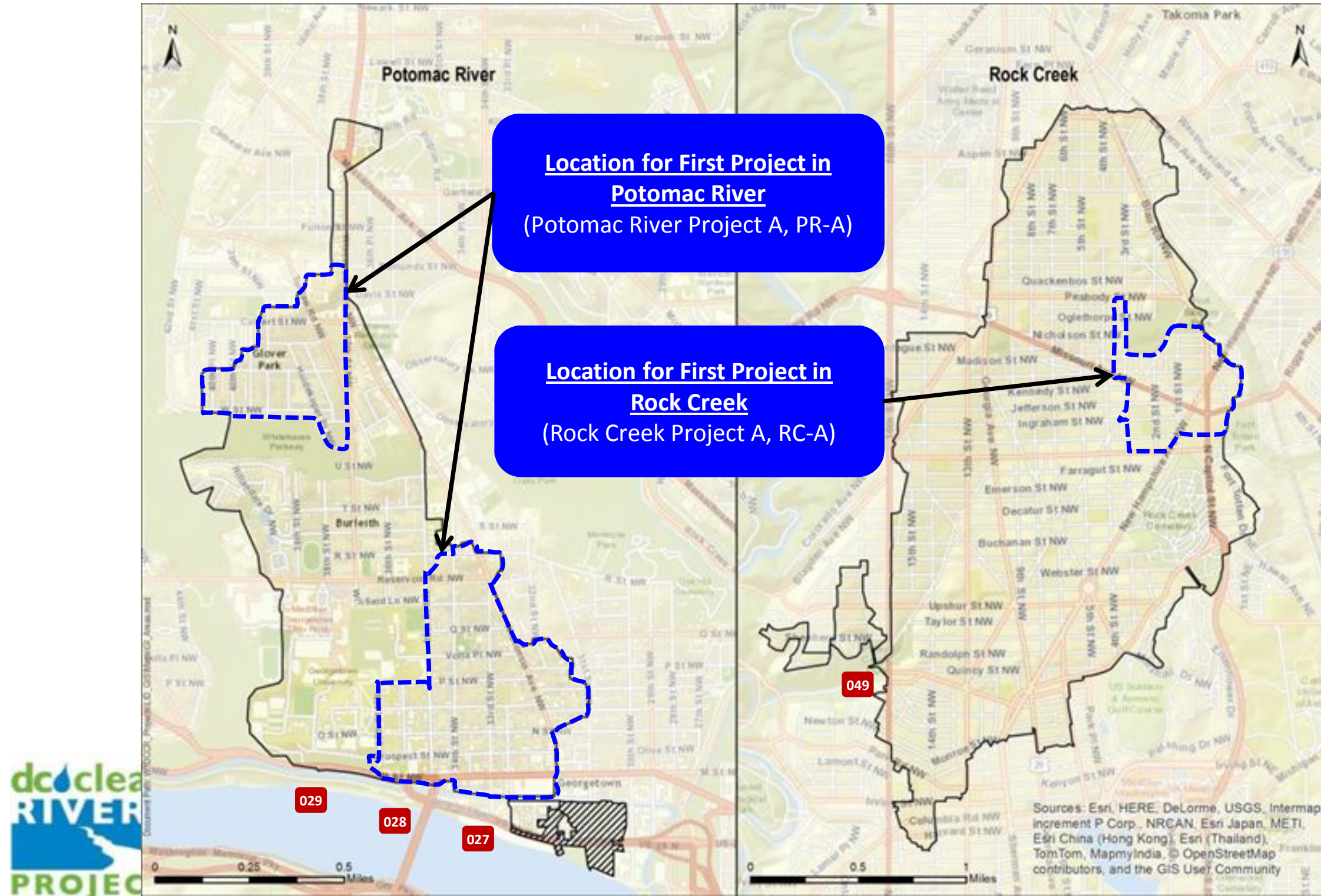
- NTP for design contracts for Kennedy Street GI Streetscape Project and Kansas Avenue GI Parks Project provided in March 2015
 - Design and community outreach underway
 - Streetscape Project to be constructed with DDOT's Kennedy Street Improvements Project
 - Parks Project anticipated to be constructed under first GI project in Rock Creek under the Consent Decree Modification



Consent Decree Modification



First GI Projects in Potomac River and Rock Creek



GI Schedules

- Rock Creek Project A, RC-A:

- RFP Development (currently underway):** 2015 – mid 2016
- Procurement:** mid 2016 – early 2017
- Design-Build:** early 2017 - 2019

Row	Activity	2015				2016				2017				2018				2019				2020				2021			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
1	Piney Branch Diversion Structure Improvements					RFP				Proc				Des-build															
2	GI Project 1 (20 acres ¹)					RFP				Proc				Des-build				Monit											
3	GI Project 2 (75 acres ¹)																					RFP				Proc			
4	GI Project 3 (90 acres ¹)																												
5	GI Project 4 (90 acres ¹)																												
6	GI Project 5 (90 acres ¹)																												

- Potomac River Project A, PR-A:

- RFP Development (currently underway):** 2015 - late 2016
- Procurement:** late 2016 – mid 2017
- Design-Build:** mid 2017 - 2019

Line	Activity	2015				2016				2017				2018				2019				2020				2021			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
1	GI Contract 1 (44 acres ¹)					RFP				Proc				Des-build				Monit											
2	GI Contract 2 (46 acres ¹)																					RFP				Pro			
3	GI Contract 3 (43 acres ¹)																												



Complete Schedule Available at: dcwater.com/green ('Resources' Section)

Requirements in Green Jobs Memorandum of Agreement

- Executed May 20, 2015 by District and DC Water
- Obligations in MOU:
 - DC Water Works
 - DC Resident Outreach
 - **GI Certification Standards** →
 - District Job Training Programs
 - Use of Facilities for Training
 - Mentor/ Internship Program
 - Use of GI Certified District Residents
 - District Resident Hiring Preference
 - Certified Business Enterprises (CBEs)
- DC Water:
 - Select and fund third party to develop certification and training standards for GI construction, inspection and maintenance
 - Develop standards for certification of training programs for trainees to obtain certification
 - Develop training materials
 - Develop process for certifying third party trainers
 - Develop process for tracking & maintaining certified contractors/inspectors/maintainers
 - Funding not less than \$600,000 total during calendar years 2015, 2016, and 2017



Certification Program: Proposed Vision

- Comprehensive Program
 - Led by independent, national third-party organization with respected stormwater credentials
 - Implemented nationally in jurisdictions with GI programs
- Standards for GI Construction, Maintenance, and Inspection
 - Supports long-term performance of GI facilities required by DC Water's NPDES Permit requirements
 - Covers full life-cycle of GI
- Certification not Certificate
 - Targeted for under/unemployed
 - Establishes career path for GI workers (construction, maintenance, inspection – not design focused)
- Long-Term Sustainability/Viability
 - Contract requirements for GI workers to hold certification
 - National model rolled-out regionally to ensure local requirements are achieved and national program is sustainable → DC Water to serve as first regional roll-out
 - Long term workable program for DC Water and the District



Pilot Green Roof Maintenance
Training Program



Certification Program: Scope of Work and Schedule

Task	Description
Need to Know Criteria Development	<ul style="list-style-type: none"> Perform job analysis and develop blueprint for exam
Curriculum Development	<ul style="list-style-type: none"> Develop (or edit existing as available) curriculum
Exam Development	<ul style="list-style-type: none"> Perform job analysis and create blueprint for exam (design test) Develop, review, and analyze test questions Assemble operational test Administer online testing



Schedule:

Late 2016: First Technical Training
Early 2017: First Certification Exam

Certification Program: Water Environment Federation (WEF)

- Who is WEF?
 - Recognized leader in stormwater and water industry
 - Membership from utilities and communities across US and in over 35 countries
 - Over 35,000 water quality professionals as members (Over 7,000 who specialize in stormwater management)
 - Technical education and training leader in water quality since 1928
 - WEF Stormwater Institute
 - Annual WEF Stormwater Congress
 - Technical publications, Online Courses, Webcasts
 - Active in water certification issues for over 40 years
 - Additional focus on policy, regulatory, and advocacy efforts

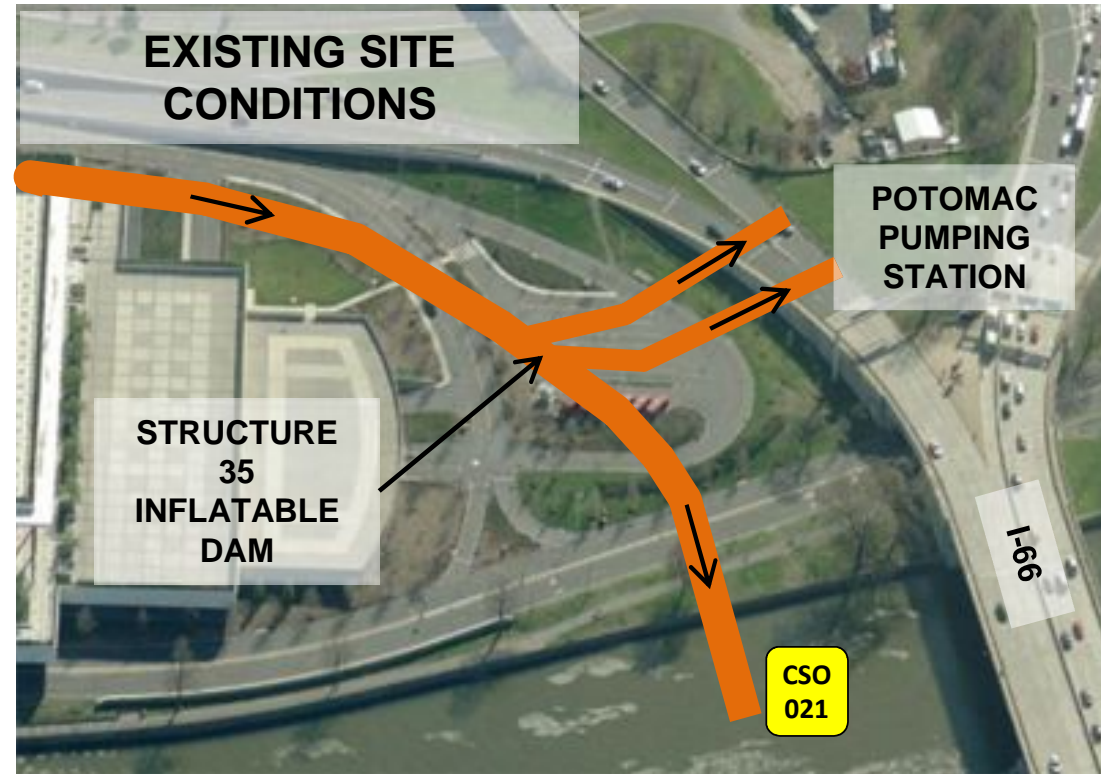


**WEF will provide leadership
needed for certification**

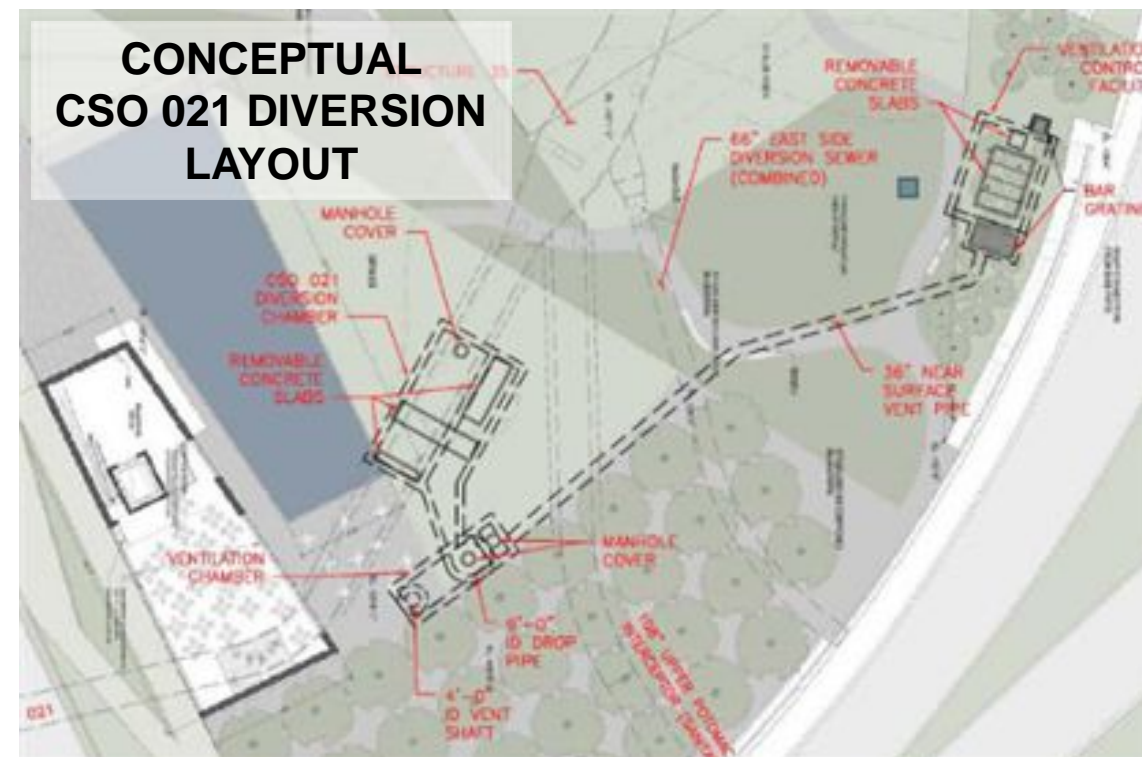


<https://www.youtube.com/watch?v=U8ypf2v-ISA>

CSO 021 Diversion Facilities (Potomac River Projects) Kennedy Center Expansion Coordination



- Kennedy Center expanding in vicinity of Structure 35/CSO 021 outfall, opening 2018
- Existing building and proposed pavilion on top of sewer
- Consent Decree requires diversion of CSO 021 as part of Potomac River Tunnel (in service 2030)
- DC Water proposing to construct diversion facilities as part of Kennedy Center expansion to avoid future impacts to improved areas
- Similar to DCCR coordination with Forest City (The Yards development), DDOT (11th Street Bridge)



Potomac Tunnel: Impact of Consent Decree Modification

Item	Existing LTCP	Recommended Plan (Consent Decree Modification)
1. Tunnel Storage	58 million gallons	30 million gallons
2. Configuration	Separate tunnel	Interconnected with Anacostia River Tunnel System
3. Pumping Station	New tunnel dewatering pumping station near National Mall	Drains by gravity to Blue Plains
4. Operation	Tunnel pumping station discharges to existing Potomac Force Mains	Simple – gravity operation
5. Schedule	Complete by 2025	Complete by 2030

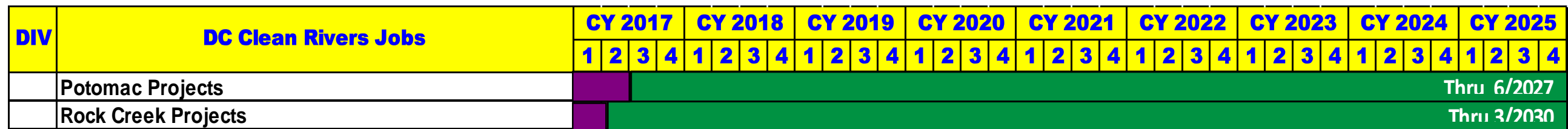
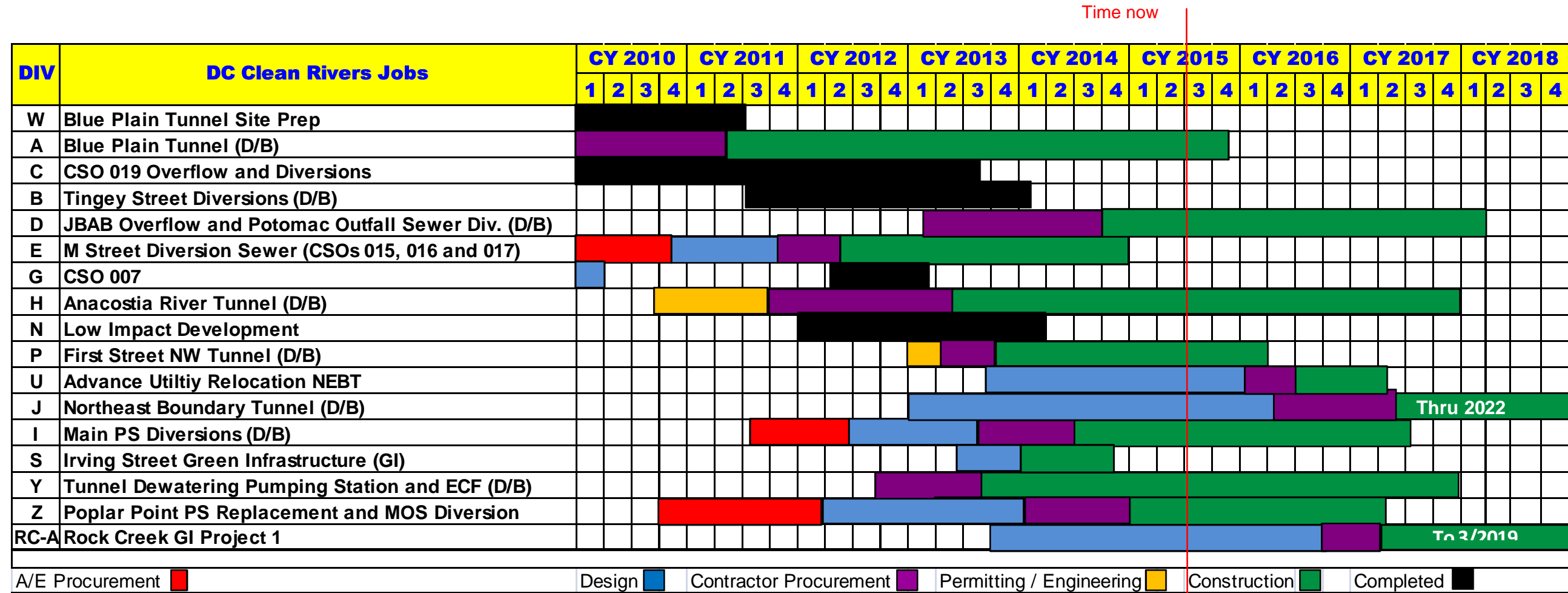
Significant benefits to ratepayers




PROGRAM SCHEDULE



DC Clean Rivers Schedule



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	

← Projects required for nutrient removal at Blue Plains.

Reimbursement by the district: **-0.059**

Revised Total: **2.571**

(1) Consent Decree modifications are not reflected in CIP budgets above.

(2) 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.

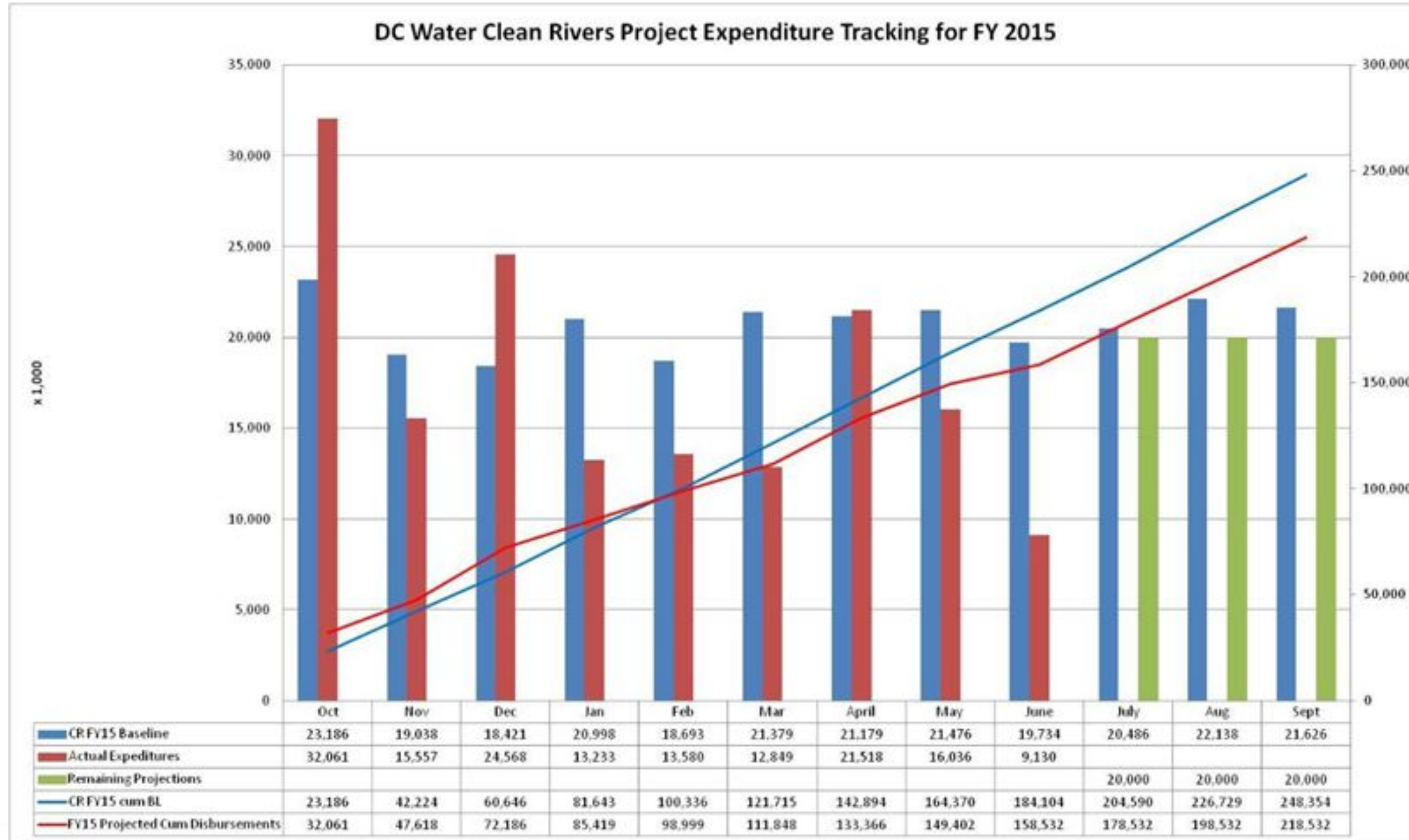
(3) Risk allowance is for work that can be needed for tunnel construction as more information becomes available on:

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

FISCAL YEAR 2015 SPENDING STATUS



FY2015 Spending Status



- To-date expenditures are tracking lower than planned due to a slow down in the ART due to the ground inflow incident and several lagging invoices

SUMMARY



Summary

On Track To Meet CD Milestones + On Budget

Construction:

- Overall physical construction percent complete for awarded projects is approximately 63%

Upcoming Procurements:

- RFQ and Bid Documents for Div U (Northeast Boundary Tunnel Utility Relocations) are planned for July 2015 and November 2015
- 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 3rd Quarter
April 1st through June 30th, 2015**

**Board of Directors
Environmental Quality and Sewerage Services Committee**

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

September 2015

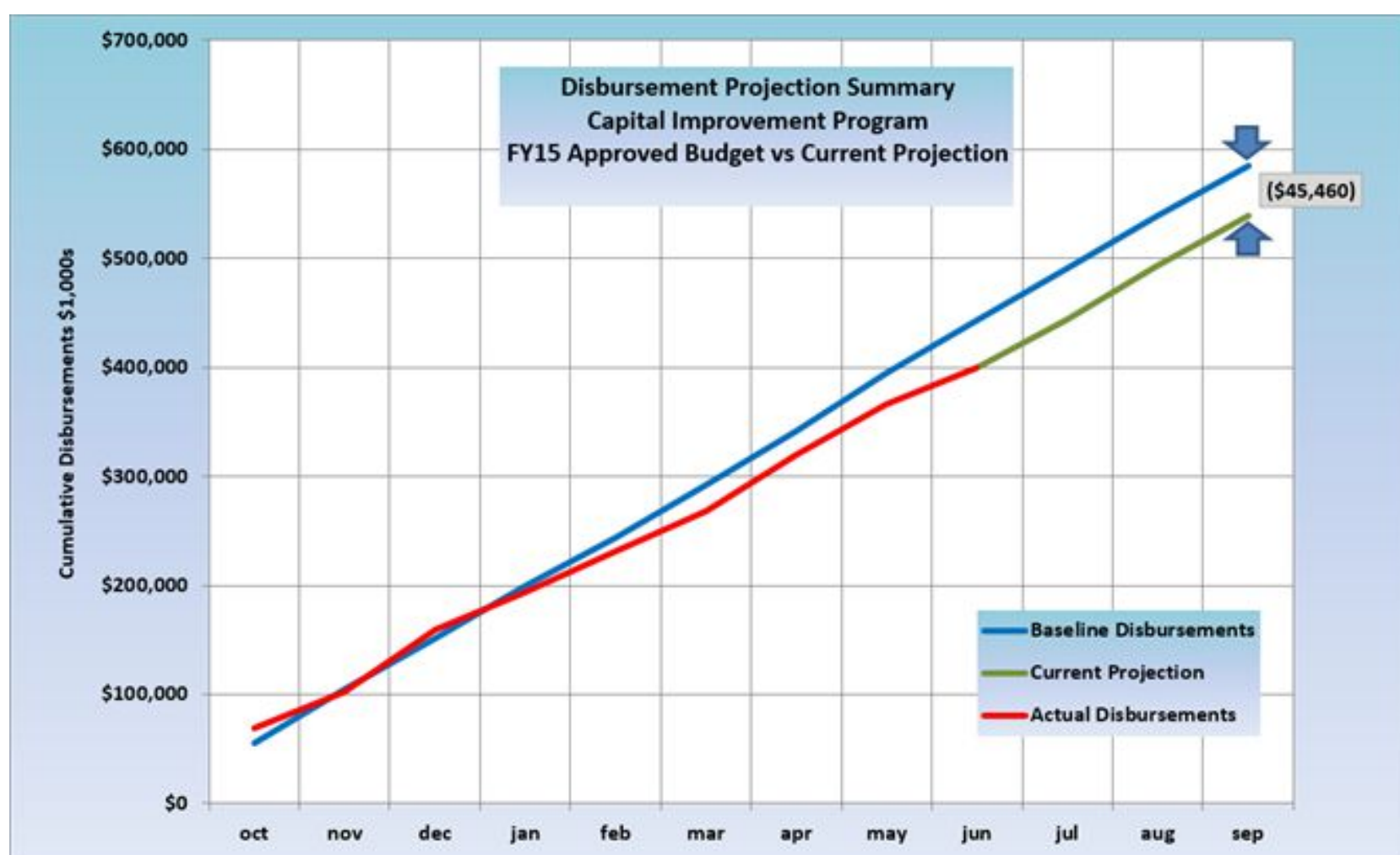


Capital Improvement Program Report 3rd Quarter FY2015

CIP Disbursement 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 \$539,723,000 through the end of June, which is 8% 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 \$194,956,000 (\$11.3M below baseline projection)

Significant project variances are listed below:

- *Solids Processing Program Area – (Projected to be \$12.8M below baseline)*
 - The disbursements for Project XA – New Digestion Facilities are projected to be \$11.3 million below baseline largely due to delayed release of retention for the 3 main construction



Capital Improvement Program Report 3rd Quarter FY2015

contracts. Although DC Water has had beneficial use of the main project elements since the summer of 2015, there are outstanding contractual requirements that prevent release of retention. It is anticipated that the majority of the retention will be released in 2016.

- *Enhanced Nitrogen Removal Program Area – (Projected to be \$3.8M above baseline)*
 - The projected disbursements are expected to be \$10.0 million below baseline for Project EE - Filtrate Treatment Facilities; this is a result of undocumented underground utilities encountered during site preparation, which delayed the mass excavation start by 2.5 months, and in addition, slower than expected major process equipment submittal approval that has delayed the payment schedule for those items. It is anticipated the contract will be completed within budget.
 - Project EG - Blue Plains Tunnel proceeded favorably with mining completed in midsummer 2015, following which disbursements have reduced, in addition, a conservative approach to projection of retention under estimated disbursements, contributing to anticipated fiscal year end disbursements of \$11.7 million above baseline projection.
 - Disbursements are projected to be \$2.5 million above baseline on project BI Enhanced Nitrogen Removal (ENR) North partly due to favorable construction progress and additional scope required during blower renovation.

CSO Service Area

Baseline Disbursements \$271,100,000

Projected Disbursements \$247,048,000 (\$24.1M below baseline projection)

Significant project variances are listed below:

- *Clean Rivers Program – (Projected to be \$23.5M below baseline)*
 - Currently projected disbursements in Project CY – Anacostia LTCP Projects are \$22.1M below baseline partly due to the ground inflow incident at the Anacostia River Tunnel (ART) Inter Shaft Connecting Tunnel at the CSO 019 construction site; disbursements for this contract are expected recover in the next fiscal year. DC Water is working with Design/Builder for the ART to mitigate delays caused by the ground inflow incident. In addition, the First Street Tunnel (FST) Design/Builder is currently behind his baseline schedule thus also contributing to the less than baseline disbursements. DC Water requested the FST Design Builder to recover current schedule delays. DC Water is expected to meet all its consent decree milestones.

Stormwater Service Area

Baseline Disbursements \$2,559,000

Projected Disbursements \$885,000 (\$1.7M below baseline projection)

Significant project variances are listed below:

- Stormwater Trunk/Force Sewers



Capital Improvement Program Report 3rd Quarter FY2015

- The emerging needs that Project BO – Future Stormwater Projects was created to fund have not materialized this fiscal year to date and as a result disbursements are predicted to be \$1.5 million less than baseline projection.

Sanitary Sewer Service Area

Baseline Disbursements \$40,258,000

Projected Disbursements \$37,382,000 (\$2.9M below baseline projection)

Significant project variances are listed below:

- *Sanitary Collection Sewers Program Area – (Projected to be \$5.2M below baseline)*
 - Currently projected disbursements are \$2.0 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 On-Going Projects – (Projected to be \$7.9M above baseline)*
 - Disbursements for project D6 – FY2014 – DSS Sanitary Sewer Projects and DI – FY2015 - Sanitary Sewer Projects are projected to be \$5.8 million above baseline partly as a result of emergency repairs to the North East Boundary Tunnel following unauthorized construction of an apartment building over the sewer.
- *Sanitary Interceptor/Trunk/ Force Sewers – (Projected to be \$2.7M 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 \$1.3 million below baseline.
- *Sanitary Sewer Program Management – (Projected to be \$2.6M Below Baseline)*
 - Projected disbursements for Project DN – Sewer Inspection Program are \$1.9M below baseline projections generally due to moving funds from FY15 into FY16 in order to procure an unusually large heavy cleaning and inspection contract for the Upper Potomac Interceptor Relief Sewer which is responding to an emerging need.

Water Service Area

Baseline Disbursements \$65,006,000

Projected Disbursements \$59,452,000 (\$5.6M below baseline projection)

Significant project variance listed below:

- *Water Distribution Program Area – (Projected to be \$3.7M below baseline)*
 - Projected disbursements are \$3.5 million below baseline in Project O1 – Small Diameter Water Main Rehab 9, due to slow construction progress at the start of the year partly attributed to quality control concerns that are now largely resolved.



Capital Improvement Program Report 3rd Quarter FY2015

- *Water Storage Facility Program Area – (Projected to be \$3.6M below baseline)*
 - Projected disbursements are \$2.9 million below baseline projections in Project FA – Water Storage Facility Upgrades due to construction delays caused by permitting and other construction issues.

- *Water On-Going Projects – (Projected to be \$3.3M above baseline)*
 - Disbursements for project D5 – FY2014 – DWS Water Projects and DG – FY2015 – Water Projects are projected to be \$2.7 million above baseline largely due to an increased number of water main repairs.

- *DDOT Water Program Area – (Projected to be \$2.0M below baseline)*
 - The DDOT program is currently projected to be about \$2.0 million below the baseline mainly due to DDOT’s focus on major projects rather than focusing on constructing road projects that include water main work.



Capital Improvement Program Report 3rd 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 Nov, BOD Dec

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

Project CY – Div U - Advance Utility Relocations for NEBT
Construction Contract (\$15M - \$20M), WQ&WS Mar, BOD Apr

Project DR – Low Area Trunk Sewer - Rehabilitation
Construction Contract (\$10M - \$15M), EQ&SS Dec, BOD Jan

Project O3 – Small Diameter Watermain Rehab 11b
Construction Contract (\$5M - \$10M), EQ&SS Dec, BOD Jan

Project I8 – Large Valve Replacements 12
Construction Contract (\$5M - \$10M), WQ&WS Sep, BOD Oct

Project DR – Low Area Trunk Sewer - Rehabilitation
Construction Contract (\$10M - \$15M), EQ&SS Dec, BOD Jan

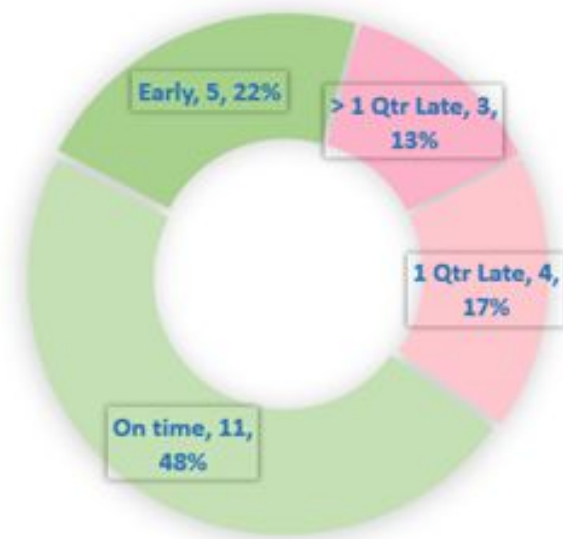


Capital Improvement Program Report 3rd Quarter FY2015

Schedule - Key Performance Indicators, Capital Improvement Program

KPI Performance Through End Quarter 3

All KPIs



For the 3rd Quarter, one of the Key Performance Indicators (KPIs) was achieved early in the second quarter and two were achieved on time; three of the remaining planned KPIs were not achieved, as follows:

1. The construction start milestone for Pope Branch Stream Restoration. This contract was rebid to meet MBE/WBE goals.
2. The National Arboretum Sewer Rehab, due to a longer than expected amount of time needed to procure permits.
3. The design start milestone for Steel Water Mains Contract 3 due to elimination of the job and combining the funding with Steel Water Mains Contract 2 after repair scope increased for both jobs.

KPI Performance Through End Quarter 3

Design Start



KPI Performance Through End Quarter 3

Construction Start



KPI Performance Through End Quarter 3

Construction Substantial Completion



KPI Performance Through End Quarter 3

Consent Order





Capital Improvement Program Report 3rd Quarter FY2015

FY2015 - KPI Report

DS	Design Start	Planned		On time	
CS	Construction Start	Early		1 Quarter Late	
CSC	Construction Substantial Completion			> 1 Quarter Late	
CO/PC	Consent Oder/Permit Compliance				

Qtr.	Project	Job Name	KPI Name	QUARTER				To Date
				1	2	3	4	
2	E901	Nitrogen Removal Facilities - Contract 2	PC					Early
1	FY01	Rehab Upper Part of Rock Creek Main Interceptor	DS					On time
1	IF02	Sanitary Sewer Rehab and Repair Phase 6	DS					On time
2	DE01	Small Diameter Water Main Repl 12A	DS					On time
2	IL07	Creekbed Sewer Rehabilitation Bingham Drive	DS					Early
2	DS01	New Headquarters Building	DS					On time
3	F603	Steel Water Mains Contract 3	DS					1 Qtr Late
4	FA03	Soldiers Home Reservoir Upgrade	DS					
4	DE02	Small Diameter Water Main Repl 12B	DS					
4	BP01	Grit Chamber Facilities Phase II	DS					
4	BQ01	Primary Treatment Facilities Ph II	DS					
1	FA06	Brentwood Reservoir Upgrade	CS					On time



Capital Improvement Program Report 3rd Quarter FY2015

FY2015 - KPI Report

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CSC	Construction Substantial Completion			> 1 Quarter Late	
CO/PC	Consent Oder/Permit Compliance				

Qtr.	Project	Job Name	KPI Name	QUARTER				To Date
				1	2	3	4	
1	FA04	Ft. Stanton Reservoir No. 1 Upgrade	CS					On time
1	FS01	Div D - JBAB Overflow and Diversion Structures	CS					On time
2	CY21	Div Z - Poplar Point Pumping Sta. Replacement	CS					On time
2	O202	Small Dia Watermain Repl 10b	CS					Early
3	GA01	Small Local Sewer Rehab 4	CS					On time
3	Q302	Pope Branch Stream Restoration	CS					1 Qtr Late
3	G100	Lining & Repair of Local Sewers	CS					On time
3	J306	National Arboretum Sewer Rehab	CS					1 Qtr Late
4	MA01	St. Elizabeth Water Tank	CS					
4	O301	Small Dia Watermain Repl 11a	CS					
4	I802	Large Valve Replacements 12	CS					
4	I803	Large Valve Replacements 13	CS					
1	XA12	Biosolids Final Dewatering	CSC					> 1 Qtr Late



Capital Improvement Program Report 3rd Quarter FY2015

FY2015 - KPI Report

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CS	Construction Start	Early		1 Quarter Late	
CSC	Construction Substantial Completion			> 1 Quarter Late	
CO/PC	Consent Oder/Permit Compliance				

Qtr.	Project	Job Name	KPI Name	QUARTER				To Date
				1	2	3	4	
1	XA08	Biosolids Main Process Train (MPT)	CSC					1 Qtr Late
1	XA10	Biosolids Combined Heat and Power (CHP)	CSC					> 1 Qtr Late
1	XA12	Biosolids Final Dewatering	CSC					> 1 Qtr Late
2	CY04	Div E - CSO 015-017 Structures/Diversions	CSC					Early
3	O001	Small Dia Watermain Rehab 8-1	CSC					On time
3	BZ03	Large Valve Replacements 10	CSC					Early
4	N712	Potomac Sewer - Odor Remedy (VA Sites)	CSC					
4	E901	Nitrogen Removal Facilities - Contract 2	CSC					
4	FA02	Ft. Reno Reservoir No. 1 Upgrade	CSC					
4	FH01	Discharge Piping Bryant Street Pump Station	CSC					