

Prepared and Presented By:
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DC Water Permit Operations

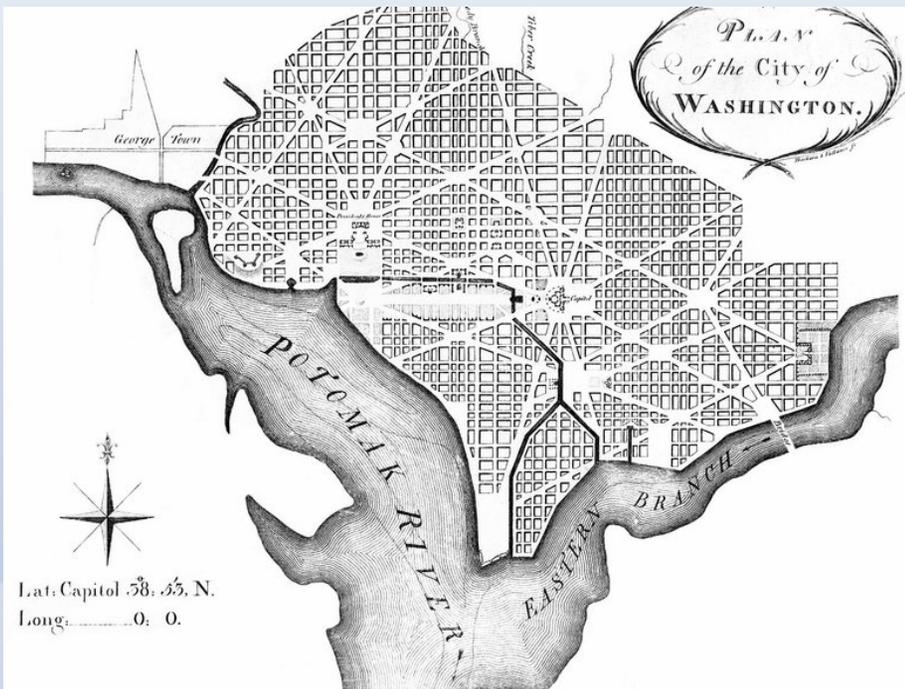


Frits Ahlefeldt

Together We Build Better and Faster

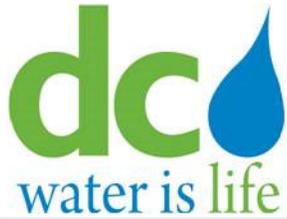
WBC Joint Utility Seminar - May 30, 2019

DC Water History



- Washington DC Founded July, 1790
- DC Water Board (1859 – 1872)
- DC Board of Public Works (1872 – 1932)
- (1932) DC Dept. of Sanitary Engineering
“First section of Blue Plains constructed”
- (1971) DC Dept. of Environmental Service
- **DC Mayor First elected 1973**
- (1985) DC Water and Sewer Utility Administration.
- 1996 DC WASA
- 2010 DC Water





Water Infrastructure

- 44,000+ valves
- 9,500+ fire hydrants
- 1,350 miles of pipe (average age = 77 years)
- 4 pumping stations, 5 storage reservoirs, 3 ESTs
- Pumping supply average of 300+ MGD
- approx. 95 million gallons of treated water storage



Sewer Infrastructure

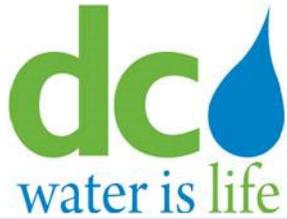
- Blue Plains Advanced Wastewater Treatment Plant – largest Advanced WWTP in the world (150 acres)
- 370 MGD treatment capacity (1 BGD peak)



- 1,900 miles of sanitary and combined sewers
- 9 off-site pumping stations
- 22 flow meter stations



- Potomac Interceptor – Dulles Airport to Blue Plains
- Tiber Creek Sewer – 22 Foot wide Arch Sewer- 1900
- Anacostia force Main – 108” Force main – 1960
- Rock Creek Interceptor – 78” Sanitary.
- Numerous large diameter Combined sewer mains.



Primary Agencies - Construction Permitting

DCRA – Dept. of Consumer and Regulatory Affairs

- New construction & renovations
- Private property

DDOT – Dept. of Transportation

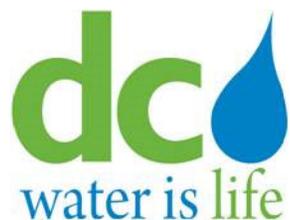
- Construction in and occupancy of public space

DDOE – Dept. of Environment

- EC & SWM
- Private property and public space

DC Water (plan approval only – no permits issued)





Permitting Key

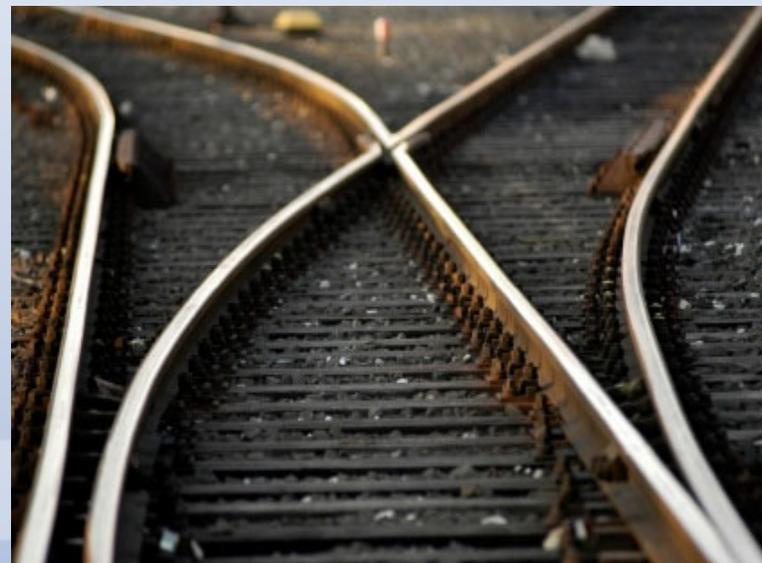
We need our
Construction
permit before our
design completion
date!!

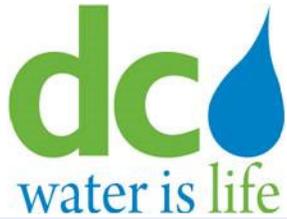


**KNOW WHAT THE PERMIT
AGANCIES ARE LOOKING FOR**

Design Work vs. Permitted Work

1. L.O.D (Civil Plans) (Impact Plans)
2. Sediment Control
3. Stormwater Management
4. Maintenance of Traffic

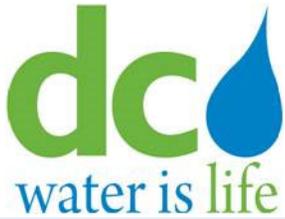




Where Else Might I Encounter DC Water?

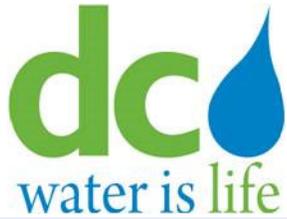
- Street Closing
- Easements and Covenants
- Information Requests
- Hydrant Flow Tests
- Test Shuts (water/sewer)





Where can I Find Water/Sewer Info?

- www.dewater.com
 - Working with us
 - Permits
- DC Water Project Design Manual (website)
- DC Water Standard Details & Design Guidelines (website)
- DC Water Counter Maps and Record Drawings (RFI Request)



What does Permit Operations do?

***Customer service,
technical review
and support***

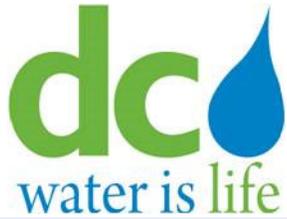
- How does it affect our system? Do we have capacity?
- Can we meter it, sewer it, can it be built?
- Track and schedule in Maximo, store copies of plans

***Estimate and
collect
fees for DC Water
inspection***

- Inspection of water and sewer in public space
- Document pre and post construction conditions
- Deposits against potential damages

***Validate customer info,
set up work orders and
schedule work***

- Obtain correct billing information
- Create new accounts (premises)
- Enter work orders into Maximo



Permit Operations Review Process

OPTIONAL *Conceptual*
(CPR)

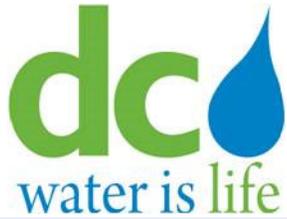
Let's sit down and talk about it

Preliminary
(RAZE, HOME, SHEET, PPRS, PPRL)

Now that you have plans suitable for review, let's see if it meets DC Water design standards. Need all DC Water forms.

Final
(WSAC, WSAL)

Now that you have all necessary items on plans – payment of inspection fees and DDOE approvals – DC Water issues a Water and Sewer Availability Certificate (WSAC).



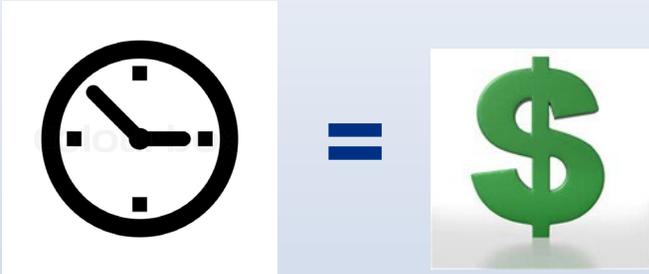
What will it Cost?

The fees paid to DC Water cover the following items:

- Flat fees for reviews
- Flat fees for certain services (hydrant flow test, etc.)
- Anticipated inspection cost – balance is refundable
- 40% deposit on damages that DC Water would need to repair – balance is refundable
- System Availability Fees
- See DC Water website for fee schedule

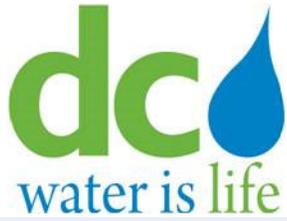


How Long will it Take?



- Conceptual review – schedule meetings as needed
- Preliminary review – 2 to 4 weeks for DC Water comments (per plan package submission)
- Final approval – 3 to 6 months+

– It's really up to you!



How can I Speed up the Process?

- Re-submit in a timely manner.
- Get a review at the concept phase (CPR)
- Use counter maps and GIS records (RFI)
- Follow the DC Water project design manual (website)
- Use the DC Waters latest standard details & forms (website)
- DC Water permits separately then the other agencies, make sure you submit to DC Water the sometime or before DCRA/DDOT



LIDs and DC Water Utilities

DC Water Concerns:

- Sink Holes - Sewer infiltration caused by LIDs
- Promotion of root growth zones over water/sewer
- Broken Mains - Pipe Bedding integrity lost
- Clearances (horizontal and vertical);
- Restoration/repair of LIDs on top of water/sewer mains;
- Restoration/repair of LIDs for service connections



TRUST...



BUT VERIFY.

Comments & Questions