



City of Bellevue

450 110th Avenue NE
Bellevue, WA 98004

Meeting Agenda

Environmental Services Commission

Thursday, March 7, 2019

6:30 PM

Room 1E-113

1. Call to Order and Roll Call

2. Approval of Agenda

3. Oral and Written Communications

Note: Three-minute limit per person, maximum of three persons to speak to each side of any one topic.

4. Communications from City Council, Community Council, Boards and Commissions, and members of the Transportation Commission

5. Staff Reports

6. Approval of Minutes

[19-208](#) ESC Minutes - February 7, 2019

7. Unfinished Business

8. New Business

[19-209](#) Storm Response Report

[19-210](#) Water System Plan Implementation

9. Oral and Written Communications

10. Review of ESC Calendar/Council Calendar

[19-211](#) Calendar(s) Review

11. Adjournment

(Meeting adjournment may be extended by majority vote.)

Meetings are wheelchair accessible. Captioning, American Sign Language (ASL), or language interpreters are available upon request. Please phone at least 48 hours in advance 425-452-6168 (Voice). If you are deaf or hard of hearing, dial 711 (TR). Assisted listening devices are available upon request. Room 1E-113 is equipped with a hearing loop system.

**CITY OF BELLEVUE
ENVIRONMENTAL SERVICES COMMISSION
MEETING MINUTES**

Thursday
February 7, 2019
6:30 p.m.

Conference Room 1E-113
Bellevue City Hall
Bellevue, Washington

COMMISSIONERS PRESENT: Diann Strom (Chair), Negin Khanloo, Aaron Morin, Ling Zhuang

COUNCIL LIAISON: Jared Nieuwenhuis (absent)

COMMISSIONERS ABSENT: Vanja Knezevic (Vice Chair), Anne Howe, Lisa Schreiner,

OTHERS PRESENT: Lucy Liu, Assistant Director – Resource Management & Customer Service; Don McQuilliams, Operations Manager; and Brian Pugliese, Smart Water Technology Infrastructure Project Manager; Laurie Hugdahl, Minutes Taker

1. CALL TO ORDER:

The meeting was called to order by Chair Strom at 6:30 p.m.

2. APPROVAL OF AGENDA

Motion made by Commissioner Zhuang, seconded by Commissioner Morin, to approve the agenda as presented. Motion passed unanimously (4-0).

3. ORAL AND WRITTEN COMMUNICATIONS

Oral and written communications were solicited. There were none.

4. COMMUNICATION FROM CITY COUNCIL, COMMUNITY COUNCIL, BOARDS AND COMMMISSIONS

None

5. STAFF REPORTS

Asst. Director Liu reported on impacts of the recent inclement weather.

6. APPROVAL OF MINUTES

Motion made by Commissioner Zhuang, seconded by Commissioner Morin, to approve the 1/10/19 Regular Meeting Minutes as presented. Motion passed unanimously (4-0).

7. UNFINISHED BUSINESS

None

8. NEW BUSINESS

- **Seattle Public Utilities' Water System Seismic Study (Alex Chen and Bill Heubach)**

Bill Heubach and Alex Chen of Seattle Public Utilities reviewed the Seattle Public Utilities' seismic program and the results of their study. The major development since 1990 has been the availability of earthquake-resistant pipe in the United States. This kind of pipe has been used in Japan, subjected to dozens of earthquakes, and has had no failures. Mr. Heubach reviewed several scenarios for potential earthquakes in our region and vulnerability assessments including:

- “Vertical” Facilities – watersheds, treatment plants, reservoirs/tanks, pump stations and gatehouses, and support facilities
- Pipelines – transmission and distribution

Short-term measures and long-term measures were reviewed as well as seismic resilience recommendations.

Commission Questions:

Commissioner Zhuang asked how the time estimates of the earthquakes were developed. Mr. Heubach reviewed various hypotheses for determining this. Commissioner Zhuang referred to the suggestion to isolate larger areas of pipe damage, and noted this would likely be difficult since the roads will probably be very damaged as well. Mr. Heubach replied there are different ways to deal with this type of scenario such as valves that are remotely controlled. Another way is have valves that are actuated by the shaking motion of an earthquake. Crews could also go around and manually close valves. Commissioner Zhuang asked what residents can do to prepare. Mr. Heubach commented that the current recommendation to prepare for 14 days.

Commissioner Morin asked how long it took for Seattle to do the seismic study. Mr. Heubach replied that it started off as a one-year project that lasted almost three years. Commissioner Morin asked if King County was also looked at in general in addition to just Seattle. Mr. Heubach replied that there is a lot of overlapping information and information that would be useful to Bellevue. Most of the study is available online.

Chair Strom referred to the Recommendation Summary and asked what Bellevue can do to make sure that the Eastside Reservoir and transmission lines that are so important to Bellevue get addressed. Mr. Heubach commented that they can be supportive of the projects because the costs are borne not only by SPU, but by the regional customers.

- **2019 Stormwater Management Program (Don McQuilliams) (Public Hearing)**

The public hearing was opened at 7:20 p.m. with Commissioners Strom, Morin, Zhuang, and Khanloo in attendance.

Operations Manager Don McQuilliams made the staff presentation related to the 2019 Stormwater Management Program Plan. He explained that the NPDES is an EPA mandate to operate a stormwater system. It is issued and administered by Washington State Department of Ecology. The next revision is in August of this year.

Mr. McQuilliams reviewed the BMPs (Best Management Practices) which are part of the permit. These include:

- Public Education and Outreach
- Illicit Discharge Detection and Elimination Program
- Controlling Runoff
- Municipal Operations and Maintenance
- Monitoring and Assessment

Noteworthy changes included the following:

- Source Control is a new inspection requirement Ecology is adding to the Phase II permits
- Comprehensive Stormwater Planning – Ecology is asking that Permittees begin taking a long-term approach to stormwater planning
- Illicit Discharge Detection and Elimination – Ecology is defining how Permittees structure the information collected to better inform future evaluation of the data

The City will modify its 2019 SWMP as appropriate once Ecology issues the permit.

Commission Questions:

Commissioner Morin asked if the City has considered investing in an effort to allow people to do carwash fundraisers in an environmentally responsible way. He suggested some sort of mutual agreement with car washes.

Commissioner Zhuang asked why rain gardens aren't part of this plan. Mr. McQuilliams commented that bioretention swales and ponds are part of the City's plans where feasible. This has been embedded in the code as a first priority to try to implement low impact development before doing anything else. Commissioner Zhuang expressed concern that there is not more incentive for private rain gardens at a residential level. Mr. McQuilliams agreed that right now there is no incentive, but noted that it has been talked about. Commissioner Zhuang asked if there's a program similar to how PSE does prefer vendor recommendations that would provide an interested homeowner with a qualified vendor.

Commissioner Khanloo asked how renters can be made more aware about the environmental impacts of car washing. She suggested providing information to property owners or real estate professionals during the contract signing process. Mr. McQuilliams agreed that this was a good idea, but noted that the most effective educational efforts seem to be done through the schools. He noted that some information has been sent in the past in utility bills. Commissioner Morin commented that many renters may not ever see the utility bills and may have been missed with this communication method.

Public comments were solicited. There were none. The public hearing was closed at 7:48 p.m.

- **Smart Water Meters Update (Brian Pugliese, Smart Water Technology Infrastructure Project Manager)**

Smart Water Technology Infrastructure Project Manager Pugliese gave an overview of the technology and gave an update on the new WaterSmart Portal, Customer Communications, and Next Steps. The project will change out all non-communicating meters with new smart meters (40,000 water meters by the end of 2020). He discussed the benefits of AMI to customers and to the City including early leak detection and greater meter accuracy. He stressed efforts the City is making to ensure data security and privacy. The WaterSmart Portal will provide a cloud-based portal service for customers which will provide information to customers about their usage and will connect to the City's current payment system (My

Utility Bill). Other more customer-friendly payment systems will be explored in the future. Customers can access the portal through a variety of forms. The City is currently in contract negotiations with WaterSmart. The plan is for the portal will be connected to the new AMI system and available for customers to use by the end of the year. Mr. Pugliese reviewed the multiple aspects of the customer communication program which focuses on providing appropriate information ahead of time as needed and using all the available tools such as print, email, social media, and face-to-face interactions. Where it makes sense there will also be translation of the materials into other languages.

Commissioner Questions:

Commissioner Khanloo asked how citizens who don't use computers can get information related to their smart meter, such as notifications of suspected leaks. Mr. Pugliese said staff is working with customer service personnel on new procedures for these circumstances. In addition, the City will be collecting data from customers about their preferred communication method.

Commissioner Zhuang asked if Itron and WaterSmart have a history of partnering in these types of solutions. Mr. Pugliese explained these are two separate companies, but they have worked together in the past with other municipalities and are familiar with each other.

Mr. Pugliese also described a pilot test of the AMI system. The City soon will be in the process of recruiting customers who might want to participate in the pilot. Commissioners Strom, Khanloo and Zhuang expressed an interest in participating in the pilot program.

9. ORAL AND WRITTEN COMMUNICATIONS

David Plummer, 14415 NE 14th Place, Bellevue, WA 98007, commented that Mr. Pugliese indicated the system has a net benefit of \$2.3 million. Mr. Plummer assumes this number came from Martin Chaw's memo, but it is not clear where this number came from. He noted that the life cycle cost of the system has not been made clear and should be investigated further. He is working on an estimate of the life cycle cost which he thinks will be around \$30 million in 2018 dollars. Finally, he said he is still waiting to see information about a possible opt-out policy for people who do not want to participate. He thinks Utilities needs to make this an option.

10. REVIEW OF ESC CALENDAR/COUNCIL CALENDAR;

Asst. Director Liu discussed upcoming meeting agenda items for the ESC and City Council. Environmental Outreach and Volunteer opportunities in March were highlighted.

Commissioner Morin asked about the opt-out option referred to by Mr. Plummer. Mr. Pugliese commented that in this state and many other places there is no opt-out option for water meters. Staff is having discussions about how to work with the very small number of people who have an objection to the technology.

Commissioner Morin referred to Mr. Plummer's comments and asked for confirmation that, in the timeline of things, regardless of the numbers that come up, Council has already made the decision to move forward with AMI. Asst. Director Liu agreed that the Council has already approved the decision to move forward with the project. She explained that the \$2.3 million figure was taken from the feasibility study which was a thorough study conducted before the project was approved.

11. ADJOURNMENT

Motion made by Commissioner Morin, seconded by Commissioner Khanloo, to adjourn the meeting at 8:25 p.m. Motion passed unanimously (4-0).

The meeting was adjourned at 8:25 p.m.



MEMORANDUM

- Action
- Discussion
- Information

DATE: March 7, 2019

TO: Environmental Services Commission

FROM: Joe Harbour, Assistant Director – Operations & Maintenance
Lucy Liu, Assistant Director – Resource Management & Customer Service

SUBJECT: February Storm Response Report

Action Required at this Time

None. This is an informational briefing.

Fiscal Impact

None.

Background

The City of Bellevue experienced a series of snow storms in the first two weeks of February. These storms had an impact on utility service delivery.

On March 7, Robin Murbach, Area Director - Northwest Operations, and Russell Joe, Municipal Relationship Manager, from Republic Services, the city's solid waste collection vendor, will provide a report on how the inclement weather impacted solid waste collection services in Bellevue and Republic Services' response to these storms.

Following Republic Services' report, Joe Harbour Assistant Director of the Operations and Maintenance Division, will brief the Commission on how the storms impacted water, wastewater, and storm and surface water operations, and the Utilities Department's involvement in the City's response to the storm events.



MEMORANDUM

Action
 Discussion
 Information

DATE: March 4, 2019
TO: Environmental Services Commission
FROM: Doug Lane, Senior Engineer, Utilities
SUBJECT: Water System Plan Implementation

Action Required at this Time

None. This is an informational briefing only.

Fiscal Impact

Current projects have been incorporated into the 2019-2020 budget.

Policy Issues

None.

Background

The 2016 Water System Plan (WSP) was adopted by City Council in June 2016, and approved by the Washington State Department of Health in January 2017. The WSP reviews system history, policies, existing infrastructure and recent water demand patterns, and recommends future programs and projects to address current deficiencies and meet future needs.

Staff will provide the current status of several initiatives that were recommended by the plan, including:

- Smart Water Meters (AMI)
- Seismic Vulnerability Assessment
- Emergency Well Development
- Fire Flow Improvements
- Add Supply Inlet Capacity
- Increase Access to Storage
- Ongoing Renewal and Replacement

2019

Tentative Environmental Services Commission Calendar

March 7, 2019

January

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March 7, 2019

Storm Response Report
(Joe & Lucy)
Water System Plan
Implementation(Doug)

July 11, 2019

CIP/O&M Field Trip

April 4, 2019

2018 Financial Performance Report
(Lucy/Jolie)
Seismic Resilience + Emergency
Water Supply (Doug)

August 1, 2019

Recess

May 2, 2019

Sewer Cost of Service Study
Findings (Lucy/Jolie)
Rate Relief Donation Program
(Alex)

September 5, 2019

October 3, 2019

Solid Waste Annual Performance
Report (Lucy)

June 6, 2019

Seismic Vulnerability Assessment-
Water Service Impacts (Doug)
Storm Cost of Service Study
Findings (Lucy/Jolie)
R&R Investment Performance
(Lucy/Jolie)

November 7, 2019

Seismic Vulnerability Assessment-
Recommendations (Doug)

December 5, 2019

Retreat

2019

Tentative Council Calendar Calendar

March 7, 2019

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March 18, 2019

- Approval of WaterSmart Contract - Brian
- WRR Grant Agreement - Lucy
- Fire Hydrant Standardization 2018 - Linda

April 1, 2019

- ECBD and Wilburton Sewer Main Abandonment (Linda)
- LHWMP Grant Agreement - Lucy

April 15, 2019

- Tillicum Middle School Easement Modification (Public Hearing) - Linda
- Ostrem Short Plat Easement Modification (Public Hearing) - Linda

Utilities' Environmental Conservation & Outreach Events and Volunteer Opportunities

March

1. Enatai Elementary Science Fair

Location: 10700 SE 25th St, Bellevue, WA

Dates: March 7th, 6 pm to 7:30 pm

Staff: Jennifer Goodhart & Laurie Devereaux, jgoodhart@bellevuewa.gov / ldevereaux@bellevuewa.gov

2. Peamouth Patrol

Location: Mercer Slough Environmental Education Center, Community Room

Dates: March 27th, 6:30 pm to 8:00 pm

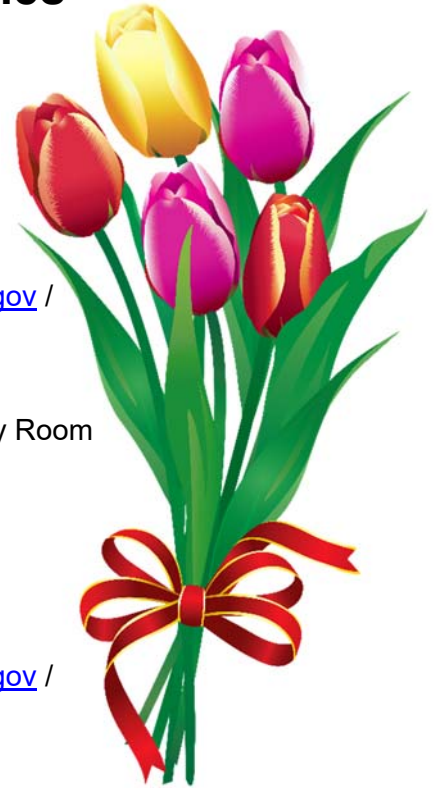
Staff: Laurie Devereaux, ldevereaux@bellevuewa.gov

3. Ardmore Elementary Science Night Celebration

Location: 16616 NE 32nd Street, Bellevue, WA 98008

Dates: March 29th, 6 pm to 8:30 pm

Staff: Jennifer Goodhart & Laurie Devereaux, jgoodhart@bellevuewa.gov / ldevereaux@bellevuewa.gov



April

1. Earth Day/Arbor Day Celebration

Location: Lewis Creek Park Visitor Center

Dates: April 20th, 11 am to 1:30 pm

Staff: Laurie Devereaux, ldevereaux@bellevuewa.gov

2. Peamouth Patrol

Location: Spiritridge Elementary Science Fair | 16401 SE 24th St

Dates: April 24th, 6:30 pm to 8:00 pm

Staff: Jennifer Goodhart & Laurie Devereaux, jgoodhart@bellevuewa.gov / ldevereaux@bellevuewa.gov

