



CITY OF PORTLAND ENVIRONMENTAL SERVICES



Columbia Boulevard Wastewater Treatment Plant

5001 N Columbia Boulevard, Portland, Oregon 97203 ■ Nick Fish, Commissioner ■ Michael Jordan, Director

**Bureau of Environmental Services (BES)
Columbia Boulevard Wastewater Treatment Plant (CBWTP)
Citizens Advisory Committee (CAC)
Meeting Minutes – July 26, 2017**

Attendance:

Citizen Members: Pam Arden, Matthew Denton
Staff Members: Steve Behrnt, Mike Ciolli
Guests/Presenters: Muriel Gueissaz-Teufel, BES Senior Engineer; Dean Kampfer, Waste Management Marketing Manager Public Sector Services; Mia Sabanovic, BES Senior Engineer; Kyle Stephens, BES WW Operations Specialist; James Hutton, BES WG Administration

Welcome, Introductions, and Announcements

Steve Behrnt, BES Wastewater Group Manager, welcomed the CAC members and thanked them for taking time to attend the meeting. In his announcements, he shared that CBWTP will be 65 years old in October. Before it was built, sewage went straight to the river. He also shared that even though there are no plans for an annual newsletter in September, there may be an open house to recognize the occasion. He then shared that the agenda included a discussion on the Food Waste Project, a Projects Update, a presentation on the Condition Assessment Program and the Summer Odor Survey.

Food Waste Project

Dean Kampfer, Waste Management (WM) Marketing Manager Public Sector Services, shared information on food waste processing in the context of biogas generation and partnering with BES in response to Metro's open Request for Proposal for Food Waste Processing Services. Dean began by explaining that 18% of waste is food material, with half being from residential customers and the other from commercial. Using the CORE process, WM converts food waste into an organic slurry. It's then loaded into sealed trucks which would deliver to the CBWTP where the slurry would be pumped to the anaerobic digestion system to increase the production of biogas. This increased biogas production would be handled by the City's upcoming biogas utilization facilities, which will produce renewable compressed natural gas for vehicle fuel. Dean provided a handout to committee members showing the CORE process. Steve Behrnt shared that one key aspect of this process is to not have raw food waste coming to the plant. By delivering it as a slurry, the waste is kept in a closed system.

Pam Arden mentioned prior waste processing locations with horrible smells and questioned whether this process would generate similar odors. Mike Ciolli, BES Wastewater Treatment Manager, shared that on a site visit to an operating facility in California, the off-loading does not result in any odor issues. It was handled very quickly with no noticeable odors. Pam Arden asked for further clarification regarding the slurry. Mike Ciolli explained that the process results in a green-colored slurry. Because of how the food waste is transported to the treatment plant, it will be very clean with no spillages during off-loading. Dean Kampfer also shared that WM is conducting direct community

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outreach to five local neighborhoods regarding their concerns. Community enhancement funds have also been allocated for the project. Steve Behrndt encouraged committee members to use the CAC as forum for feedback on how the food waste is being processed. Dean Kampfer echoed these sentiments.

Project Update

Muriel Gueissaz-Teufel, BES Senior Engineer, shared information on key projects as follows. For additional project updates, please see the attached file.

- Phases 3 and 4 of the Lagoon Reconstruction project is proceeding with the north cell being dewatered. The liner for the cell has been purchased and is currently being stored on site. It is estimated that the project will be completed over the course of the next 3 Summers (through 2020).
- The 30" Inverness Force Main Repair project obtained substantial completion in July 2017. During the project the need to repair a second 20" force main was discovered. A CCTV investigation of this line is scheduled for the first week of August.
- The Wet Weather Clarifier Scum Skimmers are scheduled to be installed by Stellar J in the Summer of 2017. The old skimmers have already been removed.
- The CBWTP Outfall Improvements had its Project Kickoff in April 2017 and sand wave surveys have been completed. The outfall inspection plan is being prepared, for August 2017. Design completion is projected for January 2019.
- The CBWTP Headworks Improvements Project will replace the existing 5/8" screens to finer screens. Four proposals were received in June, and the notice of the award is pending. Design is expected to begin April 2018.

Condition Assessment Program

Mia Sabanovic, BES Senior Engineer, shared a presentation on the Condition Assessment Program. With BES' \$13.5 billion infrastructure, condition assessment is important. The treatment plant and pump station condition assessment program will serve as a communication conduit that will inform reinvestment, operations and maintenance strategies for this \$3 billion segment of Bureau assets. This systematically integrated condition assessment information sharing contributes toward more accurate financial forecasts with less risk of wide variability in the future. This results in less risk to ratepayers and more prudent stewardship of our infrastructure.

Currently our plant and pump station infrastructure is made up of over 15,000 registered assets. Reviewing of this data is nearly complete and a sustainable work process to conduct condition assessments are being incorporated into our standard operating procedures. For example, during preventive maintenance inspections, basic condition assessments can be conducted that could then trigger further analysis as appropriate. Mia Sabanovic then closed her presentation with a discussion on some advanced condition assessments. For more details on these, see the attached PDF.

Summer Odor Survey

Kyle Stephens, BES Operations Specialist, shared that there were three odor complaints since the last CAC meeting at the end of April 2017. The first complaint came in May, and was confirmed to be associated with a transfer station on Columbia Boulevard, and not related to CBWTP. Odors were likely in conjunction to the trucking schedules at that facility.

The two other complaints were received in the second week of July. The first was on July 3 and was associated with a chemical pump failure at the CBWTP headworks odor control facility. The second one for the week came on July 8 and originated four miles south of the treatment plant. A resident believed CBWTP was the source of the odor due to the wind direction, but all odor control facilities were functioning as designed and there was no indication of odors leaving the facility.

Efforts to relocate activities on the East Pad that generate odors detectable on the trail near the slough bridge are completed. We are continuing efforts to minimize odors throughout the plant with good housekeeping, and preventative maintenance of all odor control facilities, especially during the warm summer months. These efforts are increased especially with the takedown and cleaning of two aeration basins and a secondary clarifier. Odor alerts were sent in association with these activities.

Due to time constraints, no odor survey was done during the meeting.

Next Meeting

October 25, 2017

Attachments

WM CORE® - Converting Waste to Clean, Renewable Energy

CBWTP Project Updates for July 26, 2017

WWTP and Pump Station Condition Assessment Program