



PROJECT MEMORANDUM

# BULL RUN FILTRATION FACILITY

Portland Water Bureau

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Subject: Supplemental Information

This memo provides supplemental information to provide context for the Hazardous Materials Management Plan (HMMP) for the Portland Water Bureau’s (PWB’s) Bull Run Filtration Facility. An updated version of the HMMP is also provided with minor revisions.

### Background

The HMMP defines processes and procedures that avoid the creation of hazardous conditions at the Filtration Facility. The HMMP was developed in accordance with International Building Code (IBC) and International Fire Code (IFC) for the fire marshal to have an understanding about the chemicals at the Filtration Facility after the facility is fully functional.

### Hazardous Classifications

The HMMP demonstrates PWB’s responsibility to safety and emergency preparedness, even with the extremely low likelihood of any incident occurring. The HMMP is developed per the IBC and IFC code, so chemicals listed in the plan only include those that are classified as hazardous per those codes. For example, per IFC Table 5003.1.1(1), carbon dioxide is a cryogenic inert fluid and therefore not considered hazardous per IFC code. In addition, while the Safety Data Sheet provided by chemical suppliers in Oregon lists ammonium sulfate as an irritant, it is not corrosive and is not classified as hazardous per the IFC (note that ammonium sulfate also is used as a fertilizer). Although not classified as hazardous per the IFC, ammonium sulfate storage will be in the same building as some of the other chemicals, so it will be treated with the same safety measures. Overall, the HMMP takes a conservative approach to chemical classifications.

### Emergency Preparedness

Section 5.3 of the HMMP outlines extra tasks that the emergency coordinator would be performing related to hazardous materials, as monitoring procedures in the event of an emergency, such as a seismic event or other events outside the control of the site. The potential hazards listed are similar to breaks that could happen in any household following a disaster, and the HMMP is outlining the procedures to document, monitor, and coordinate any actions needed to increase emergency preparedness and safety following a disaster.

### Operations Focus

The HMMP is intended to cover operations post-construction and does not include any construction-related activities. The purpose of Table 6 in the HMMP is for site operations staff to fill in and update the table post construction. The items listed in the table now are examples of materials that may or may not be needed by operations staff. As noted in the keynote underneath the table, the table lists the anticipated hazardous material changes or additions depending on future equipment selection and maintenance products as well

as future operations equipment. Therefore, specific chemicals or volume have not been anticipated at this time and will be re-evaluated by the maintenance and operation team following construction. This HMMP will be revised after construction and after specific equipment have been selected and this table will be completed at that time. To satisfy its function, the HMMP is a living document that will be maintained and updated by operations staff as materials on-site or procedures change.