

Schedule 2 – Landfill Fire: Actions Required

The following activities occurred during the course of extinguishing the landfill fire:

1. Run-off water collected from the firefighting operations (i.e. water used on the fire) was transferred from the leachate catchment area to the existing retention pond across the road and to the new drafting pond adjacent to the landfill entrance; this water will be held in these areas until summer 2015, when it will be treated and, upon approval, discharged.
2. The household waste that was being temporarily stored next to the retention pond was removed and placed back into the landfill (note: a temperature monitoring program was initiated by the City upon the recommendation of Hellfire Suppression Services to ensure that the “new” waste pile in the landfill was sufficiently cool to accept new waste; this monitoring program is managed by the Acting Director of Emergency and Protective Services; when the temperatures became low enough, the Acting Director authorized the opening of the “new” waste pile and the waste from the temporary storage site was transferred back into the landfill).
3. After the household waste was removed from the temporary storage site, approximately 6”-8” of soil was removed from across the site and deposited in the landfill and the surface grade was fully reinstated.
4. It was expected that additional run-off water would still occur. The additional run-off water collected in the catchment area over the several weeks following the cease of firefighting operations is being temporarily retained on-site temporarily. The run-off water will be treated and discharged in summer, 2015.
5. The run-off water that was transferred to the retention pond was tested and analyzed for a suite of parameters including metals, F1-F4 hydrocarbons, BTEX/VOCs, PAHs, Dioxins & Furans, and BOD/TOC, TSS, and nutrients. The results have been attached in this schedule.
6. The primary source of water came from a small tributary (Carney Creek). A weir was built in Carney Creek to create a pool of water where the fire pump was set up to draft fresh water to the landfill fire location. The weir that was installed in Carney Creek has been removed and the sediment reinstated at the location.
7. Additional water sampling will be completed in the spring of 2015 to assess the run-off water quality within the containment areas in order to further optimize the treatment process.
8. After the water from the new drafting pond has been treated and discharged, the liner will be removed and the grade reinstated.
9. In order to create additional space in the landfill site, an open area of previously contaminated land was used to temporarily store metal wastes. The plan to address the temporary metals storage site is for the City to issue a tender call in early 2015 for the removal of the material from the site (along with metal waste currently stored at the landfill) and to ship the material to a metals recycling facility in southern Canada. Following the removal of the metal waste, soil samples will be procured and analyzed for a suite of chemical parameters and compared to the analyses that were completed this summer prior to depositing metal waste at the site. If it is determined that any negative impacts occurred to the soil at the site due to the temporary storage of the metal waste, the severity of the impact will be assessed and a remediation program will be initiated if warranted. Water samples will also be procured from the drainage ponds located south of the site

that receive run-off from the site. Similarly, these results will be compared to the results of the water analyses that were completed this summer prior to depositing metal waste at the site. If it is determined that any negative impacts occurred to the water in these ponds as a result of the temporary storage of metals at the site, the severity of the impact will be assessed and the water will be diverted to the landfill retention pond for treatment, if warranted.