

AGENDA

**DES MOINES CITY COUNCIL
ENVIRONMENT COMMITTEE
City Council Chambers
21630 11th Avenue S, Des Moines, Washington
Thursday, May 11, 2023 - 5:00 PM**

Environment Committee:

Councilmember Jeremy Nutting; Councilmember Vic Pennington; Councilmember JC Harris

CHAIR TO CALL THE MEETING TO ORDER AT 5:00 P.M.

APPROVAL OF THE MINUTES FROM THE MEETING OF 04.13.2023

Item 2.1. [04.13.23 Draft Environment Committee Minutes](#)

PUBLIC WORKS YARD GROUNDWATER REMEDIATION UPDATE

Staff will provide a summary and update regarding the ongoing groundwater remediation efforts at the Public Works Yard.

Item 3.1. [Public Works Yard Remediation Update 5-11-2023](#)

DRAFT MINUTES – ENVIRONMENT COUNCIL COMMITTEE MEETING 04.13.2023

The meeting was called to order at 5:00 PM, Thursday, April 13th in the Council Chamber with the following in attendance:

Council Members

Jeremy Nutting (Chair)
Vic Pennington (Vice Chair)
Gene Achziger

City Staff

Tommy Owen – City Engineer
Tyler Beekley – Surface Water/Environmental Engineering Mngr.
Matt Hutchins – Assistant City Attorney
Taria Keane – City Clerk
Sara Lee – Public Disclosure Analyst
Jodi Grager – Admin. Assistant

AGENDA

1. Approval of the minutes from the 01.12.2023 meeting
2. CIP Project Updates

MEETING:

1. Unanimous approval of the 01.12.2023 minutes.
2. Surface Water and Environmental Engineering Manager Tyler Beekley reviewed the Capital Project Update (Attachment #2). He commented that every one of the City Engineers is working on CIP projects. The focus is on the projects that are currently funded. Due to staffing and resources, it is possible that a couple of the projects will need to be moved to 2024. Project details reviewed included:
 - 24th Ave S Pipeline Replacement Project – This is a Transportation led project with SWM assisting. ROW acquisition and utility location prove to be challenging. The focus is getting this project to bid for a construction start this summer. During significant rain events, the intersection of 24th Ave S/ S 224th St experiences water over the roadway. This situation will be resolved upon project completion.
 - Des Moines Memorial Drive (S 208th to S 212th) – The western side of DMMD is currently a mishmash of ditches. The project will install an accurately sized system for SWM. The design also considers a potential for future sidewalk placement. This project will be strategically delayed until 2024 to coincide with a nearby project.
 - Kent-Des Moines/16th Ave S (Segment A) – Due to complications regarding utility conflicts requiring a considerable amount of time to develop franchise agreements, this item will be delayed until 2024. Note: Item #10 of the Council Consent Agenda for tonight; King County Flood Reduction Grant Award which recommends accepting a grant for this pipe replacement project and the Des Moines Creek Estuary Project.

- 216th Pl/Marine View Drive Pipe Upgrade – The City is contracting with the same design consultants as Des Moines Memorial Drive (S 208th – S 212th) which should result in a cost savings, planned construction start in 2024.
- The two estuary projects (Massey Creek Pocket Estuary and Fish Project and Des Moines Creek Pocket Estuary Project) are highlighted in the Washington State Department of Ecology's WRIA 9 (Water Resource Inventory Area) Plan. These are environmental enhancement projects with grant funding for the preliminary design phase. The Des Moines Creek Pocket Estuary project will include the considerations of stake holders and respect the historical significance of this area. It will contain a robust public outreach plan.
- Deepdene Outfall Project – Staff are currently working with the neighborhood HOA on this system. Design consultants are preparing an update for the Outfall Replacement design.
- 10th Ave S Pipe Project – City SWM Maintenance crew will connect homeowner downspouts to a new system, scheduling dependent on staff availability.
- Kent-Des Moines Culvert Replacement – This WSDOT project is targeted to start this summer and will require a nine day road closure. Noticing responsibility will be shared with WSDOT.

The Committee thanked staff for the comprehensive update.

Meeting adjourned at 5:32 p.m.

Minutes respectfully submitted by: Jodi Grager, Admin Asst

Public Works Yard Groundwater Remediation Project Update

Environment Committee 5/11/2023

Background:

In 1992, the City removed two underground storage tanks and excavated 1,500 cubic yards of petroleum-contaminated soil from the Public Works Yard (21650 11th Avenue South). The City stored the excavated soils on-site and allowed them to passively remediate. However, soil samples collected in 1994 from the unexcavated area indicated that the soils contained petroleum hydrocarbons and related constituents above regulated cleanup levels. The City implemented a remedial action to address the contaminated soil and groundwater at the site under Ecology's Voluntary Cleanup Program.

From 1993 to 2009, 15 monitoring wells were installed at the site, and a groundwater recovery and treatment system was installed to prevent off-site migration of constituents of concern. The original groundwater recovery and treatment system was rebuilt in March 2009 to expedite the cleanup of the source area and prevent off-site migration of constituents of concern. The rebuilt groundwater recovery and treatment system operated from 2009 until 2020 with routine repairs and reconfigurations needed along the way.

However, at the end of the 2020-2021 reporting period, the groundwater recovery and treatment system vacuum pump failed, leading to the system being turned off for the entire 2021-2022 reporting period.

2022 Summary:

Groundwater Remediation System

During the 2021–2022 reporting period, the City made the decision not to repair the groundwater recovery and treatment system. There were several factors that led to this decision. Firstly, the major infrastructure, piping, and fittings of the system were nearing the end of their expected lifespan and would require complete replacement before the system could be restarted. Secondly, the concentrations of site constituents of concern in groundwater sampled from the extraction well for the groundwater recovery and treatment system appeared to be stabilizing below cleanup levels. Lastly, subsurface soil investigations were planned for the 2021–2022 reporting period that would impact the overall remediation strategy for the site.

Groundwater Monitoring

During the past eight years, contamination levels have been detected above the required clean-up levels in four wells. However, 2021-2022 groundwater monitoring has shown overall groundwater concentrations of site constituents of concern have been decreasing and are currently below their clean-up level thresholds. The exception is monitoring well number 14 (MW-14), where groundwater concentrations of constituents of concern are still above required clean-up levels and are no longer trending downward. Overall, the site continues to make progress, as only one well remains out of compliance with the Ecology clean-up standards.

Subsurface Soil Investigation

In the 2021-2022 reporting period, a subsurface investigation was conducted near the existing groundwater recovery and treatment system to gain insight into the extent of residual soil contamination at the site. The investigation aimed to delineate the horizontal and vertical extent of soil contamination, as well as obtain a detailed profile of soil properties that may affect the transport of constituents of concern. The investigation found that the area between MW-14 and the shop contains soils exceeding clean-up levels, likely contributing to groundwater clean-up level exceedances in MW-14. The investigation results suggest that the soil contamination is greatest near the shop north of the former excavation. It is unknown whether this soil contamination continues beneath the shop or is limited to areas outside of the shop. The City plans to use the results of the soil investigation to determine a site-wide remediation strategy in the 2022-2023 reporting period.

2023 Outlook:

The City has begun efforts with an environmental consultant to continue quarterly sampling and documentation for the 2022-2023 reporting year. The consultant is also assisting the City with the preparation of an alternative analysis to support decision-making for future remediation alternatives.