

Odour Action Update - May 25, 2023

Appendix D

Summarize and analysis of previous odour complaints (last two years and background)		STATUS UPDATE
1	Summary of odour regulations in other jurisdictions	Nov-04 Complete
2	Analyze complaints' trends as well as geographical and seasonal distribution	Nov-11 Complete
3	Correlate complaints with operating conditions (wet weather, DensaDeg vs. plate settler tanks in use, etc.) or maintenance activities (cleaning tanks, scrubber media replacement, etc.)	Nov-18 Complete
4	Summarize all finding in a TM	Dec-02 Complete

Confirm the performance of the odour control systems		STATUS UPDATE
<i>Audit of the odour collection system:</i>		
1	Field investigation to confirm the integrity of the tank covers, note deficiencies and document recommendations	Nov-04 Complete
2	Review existing H2S data and create a detail scope of future field investigation as highlighted below	Nov-18 Complete
3	Field investigation to measure negative air pressure under all covers	Jan-31 Complete
4	Field investigation to measure H2S under all covers and at some untreated sources (HVAC units, vents, etc.)	Jan-31 Complete
5	Field investigation to measure the velocity of foul air extraction from each tank	Q2-2023 Complete
6	Confirm 6 CFM air extraction from each tank is met	Jan-31 Complete
7	Identify "possible" improvements to the foul air collection system - Recommendations will need to be further assessed	Q3-2023 In progress
<i>Audit of the treatment system:</i>		
1	Confirm the design parameters identified for all units are met	Nov-04 Complete
2	Review water quality and quantity in the BTF	Nov-04 Complete
3	Review all operating variables for treatment systems (differential pressures, online H2S, air flow rate data, runtime, etc.)	Nov-11 Complete
4	Confirm the performance of mist eliminators	Nov-11 Complete
5	Assess the condition of carbon media in ACFs	Jan-31 Complete
6	Review maintenance records and summarize findings	Nov-18 Complete
7	Collect samples for odour and air quality analysis at the inlet and outlet of each online scrubber (BTF or ACF) to confirm the performance of the units comply with the design objectives	
	a. Develop the scope of sampling, including sample locations and required analysis	Oct-28 Complete
	b. Schedule, budget, resources, and procurement for sample collection and analysis	Q2-2023 Complete
	c. Analysis of results, if necessary	Q4-2023 Planned
8	Identify "possible" improvements to the foul air treatment system - Recommendations will need to be further assessed	Nov-25 Complete
9	Summarize all findings in a TM	Dec-02 Complete

Measure odour at the fenceline and beyond.		STATUS UPDATE
1	Install a weather station at MPWWTP	Nov-28 Complete
2	Collect samples for odour analysis at the fence line to confirm MPWWTP does not exceed 5 odour units / m3	
	a. Develop the scope of sampling, including sample locations	Oct-28 Complete
	b. Schedule, budget, resources and procurement for sample collection and analysis	Q 2 - 2023 Complete
	c. Analysis of results, if necessary (Sadra)	Q 4- 2023 Planned
3	Finalize and complete the VIU project to measure a large number of emitted chemicals associated with MPWWP in the community	On going On going Support
4	Update the odor and H2S dispersion model based on the updated plant emission data and the new weather station installed at the plant	Q 4 - 2023 In Progress