

From: [MICHIRA, WILFRED](#)
To: [Michael, Tracey](#)
Cc: [IDEM SSB Tracking](#); [BUCKEL, STEVE](#); [Surfus, Jeff](#); [JOHANSON, SCOTT](#)
Subject: Metal Coat, Site Number 4030028, AI Number 40936, RTE Number 22849
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Further Site Investigation 4 Report, dated May 7, 2025
Metal Coat
Brownfields Section
Site # 4030028
AI # 40936
Summitville, Madison County, Indiana
VFC # 83805581

Comments

The requested review of the Further Site Investigation 4 Report (FSI 4), prepared by IWM Consulting Group and received by Chemistry Services on May 8, 2025, has been completed. The following was noted.

FSI 4 was conducted in March and April 2025. To evaluate potential off-site soil and groundwater impacts and potential vapor intrusion into adjacent structures and utility corridors, monitoring wells MW-14 and MW-15 and six exterior soil vapor probes (MC-SGe-11 thru MC-SGe-16) were installed on March 18, 2025. Soil and sewer vapor samples (MC-SGe-11 thru MC-SGe-16 & MC-SGe-MH01 and MC-SGe-MH02) were collected on March 21, 2025, while groundwater samples were collected from 13 monitoring wells on April 1-2, 2025. Monitoring well MW-7 was paved over while MW-8 was submerged. Groundwater samples were analyzed for VOCs, 1,4-dioxane, and PFAS. Soil and sewer vapor samples were analyzed for VOCs.

Groundwater samples (peristaltic pump for PFAS and by low-flow technique for VOCs and 1,4-dioxane) and vapor samples (into 1-Liter batch-certified Summa® canisters) were collected as stated in Section 5.4 thru Section 5.6. Sampling and analytical methods were appropriate, and the reporting limits were supportive of R2 PLs.

One or more PFAS, including some with established MCLs, were detected in most of the samples except for MW-12 thru MW-14. PFOA (5.5 – 19.9 ppt), PFOS (10.1 – 70.4 ppt), and PFHxS (16.9 ppt) were reported above their MCLs in MW-1, MW-2, MW-6, MW-9, MW-10, MW-11., and MW-15. The results are summarized in Table 2 of this report.

One or more chlorinated VOCs (cVOCs) were reported above their laboratory reporting limits in several monitoring wells. PCE (24.6 ppb), TCE (12.8 – 1,210 ppb), 1,1-DCE (7.2 ppb), and VC (2.5 – 4.7 ppb) were reported above their respective R2 GWPLs in MW-1, MW-5, MW-6, MW-9, MW-14, and/or MW-15. These results are summarized in Table 1.

1,4-Dioxane was reported as non-detect in all groundwater samples. Sampling and analysis for 1,4-dioxane was recommended due to elevated levels of 1,1,1-TCA. Based on current groundwater results, additional sampling for 1,4-dioxane may not be necessary and should be eliminated from the routine quarterly sampling and analysis program.

Except for MC-SGe-MH02, one or more VOCs were reported above their reporting limits in all vapor samples. 1,3-Butadiene was reported above its RSGPL of $9 \mu\text{g}/\text{m}^3$ in MC-SGe-11 ($32 \mu\text{g}/\text{m}^3$) and MC-SGe-13 ($9.4 \mu\text{g}/\text{m}^3$). Other VOCs that were detected in soil gas samples were reported below their respective PLs. Ethanol and acetone are the only VOCs that were detected in the sewer sample MC-SGe-MH01 and its duplicate. Soil/sewer gas PLs for acetone and ethanol have not been established. These results are summarized in Table 3.

Field duplicate samples were collected from MC-SGe-MH01 (sewer gas) and MW-01 & MW-08 (groundwater). Field duplicate sample results compared well. The laboratory reports were submitted with QA/QC documentation which met the R2 Level II elements (MDDR). Results can be used for the intended purpose of site characterization and quarterly monitoring.

Peer Reviewed By: Sandra Roberts on 5/21/2025

Wilfred Michira
OLQ Chemistry Services

This document reflects the opinions of technical staff based on information presented in the report under review addressing the condition of the site, including other relevant information available at the time of the investigation. It is intended for use in agency decision making and does not contain final determinations regarding potential remedial actions. Information in subsequent tech memos may diverge from information contained in this document based on changing site conditions or the discovery of additional relevant information.