


Analytical & Swab Sampling Method Development, Recovery Studies, & Remote Training

 Confidential Client

PROJECT DESCRIPTION

This recovery study was performed using Sievers M9 TOC Analyzers and investigated multiple materials of construction including 316L stainless steel, EPDM, silicone, and PTFE. The study also investigated recovery for 3 and 7-day hold times for swab and rinse samples. The analytical method, once developed, was validated on-site at the client manufacturing facility by a Hyde Technical Resource.

This project also included scope for Hyde to draft a recovery study protocol for the client to own for future studies, as well as a remote training session on how to perform recovery studies.

STUDY OVERVIEW

This study included total organic carbon (TOC) analytical method and recovery studies (swab and rinse) on multiple materials of construction (MOC). Initial testing showed the TOC analytical method was acceptable for use, however, swab recovery studies demonstrated inadequate recovery of residues across the tested range.

TOC analytical method and swab method development were initiated to improve the method and soil recovery.


Development resulted in an improved analytical and swab method, achieving excellent recovery from all surfaces.

SCOPE AND DELIVERABLES


- Analytical method development
- Swab sampling method development
- Analytical method on-site validation
- TOC swab and rinse recovery studies on multiple MOCs
- Full summary report with data packages
- Remote training session for recovery studies

SOLUTIONS, RESULTS AND ACCOMPLISHMENTS

- ✓ Discovered inadequate analytical and swab methods leading to development work
- ✓ Developed analytical method and swab sampling method
- ✓ Drafted recovery study protocol and trained QC group on how to perform recovery studies
- ✓ Developed method was validated on-site

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