

June 15, 2023

Mr. Josh Peters On-Scene Coordinator U.S. Environmental Protection Agency, Region 5 Superfund and Emergency Management Division 2565 Plymouth Road Ann Arbor, MI 48105 We are in the process of ensuring this document is accessible to all audiences. If you need assistance accessing this document, or any material on the EPA East Palestine, Ohio emergency response web pages, please contact the Region 5 Public Information Officer on-call at: R5_EastPalestine@epa.gov

Subject: Data Validation Reports

E Palestine Site - ER

EPA Contract No.: 68HE0519D0005

Task Order/Task Order Line Item No.: 68HE0520F0032/0001EB201

Document Tracking No. 1890

Dear Mr. Peters:

Tetra Tech, Inc. (Tetra Tech) is submitting these data validation reports for seventy-six air samples including four field blanks were collected at the E Palestine Site. The samples were collected on April 3 and 4, 2023, and were analyzed for acrylates by Eurofins Analytics, LLC at their Ashland, Virginia laboratory. The final laboratory data packages were received on May 26, 2023.

Analytical data were evaluated in general accordance with the Tetra Tech Quality Assurance Project Plan, East Palestine Train Derailment Site, East Palestine, Columbiana County, Ohio, EPA Region 5, Revision 3 (April 2023), the Tetra Tech Quality Assurance Project Plan, Superfund Technical Assessment and Response Team (START V), EPA Region 5, Revision 4 (August 2022), and the National Functional Guidelines (NFG) for Organic Superfund Methods Data Review (November 2020).

No rejection or qualification of results was required for this data package. The results may be used as reported by the laboratory.

If you have any questions regarding these data validation reports, please feel free to contact me.

Sincerely,

Josh Cope Digitally signed by Josh Cope Date: 2023.06.15

Josh Cope

Environmental Chemist

Enclosure

cc: Karl Schultz, Tetra Tech Program Manager

Dustin Grams, Tetra Tech Project Manager

Mayra Arroyo Ortiz, Tetra Tech Project Document Control Coordinator

TO-TOLIN File

ATTACHMENT

DATA VALIDATION REPORTS EUROFINS ANALYTICS, LLC REPORT NOS. B095-004, B095-005, B096-006 AND B096-007

Site Name			TO/TOLIN No.	68HE0520F0032/0001EB201
Document Tracking No.	1890a		10/10LIN No.	08HE0320F0032/0001EB201
Laboratory Report No.	B095-004		Laboratory	Eurofins Analytics, LLC, Ashland VA
Analyses	2-Ethylhexyl acrylate and n-butyl acrylate by laboratory standard operating procedure (SOP) IHGC-P029			
Samples and Matrix	Nineteen air samples, including one field blank			
Collection Date(s)	04/03/2023			
Field Duplicate Pairs	None			
Field QC Blanks	EPD-ST-FB-040323-1			

INTRODUCTION

This checklist summarizes the Stage 2A validation performed on the subject laboratory report, in accordance with the U.S. Environmental Protection Agency (EPA) *Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use* (January 2009). Analytical data were evaluated in general accordance with the Tetra Tech *Quality Assurance Project Plan, East Palestine Train Derailment Site, East Palestine, Columbiana County, Ohio, EPA Region 5, Revision 3* (April 2023), the Tetra Tech *Quality Assurance Project Plan, Superfund Technical Assessment and Response Team (START V), EPA Region 5, Revision 4* (August 2022), and the EPA *National Functional Guidelines (NFG) for Organic Superfund Methods Data Review* (November 2020).

OVERALL EVALUATION

No rejection or qualification of results was required for this data package. The results may be used as reported by the laboratory.

Data completeness:

Within Criteria	Exceedance/Notes
	Level II SDG did not have the required QC forms, thus a level IV package was reviewed.
Y	The results for the field blank were reported in units of micrograms (µg) while the other sample results were reported in units of µg, milligram per cubic meter (mg/m3), and parts per million (ppm) (volume) in the laboratory report and only ppm in the electronic data deliverable (EDD).
	The laboratory report included the following note: "The method reference, Rohm & Haas IH9805 is referenced to the AIHA certification as IHGC-P029" and "Rohm & Haas IH9805" was listed in the EDD for QC samples. The laboratory confirmed that these refer to the same laboratory SOP; therefore, the method reference for QC samples was manually revised to "IHGC-P029" to match the method reference for field samples.

A unique sample ID not provided for LCSD. Unique IDs are needed to keep from overwriting QC sample IDs when EDDs are uploaded to the client database. The LCSD ID (in the Samp_No and Lab_Samp_No fields) in the EDD were manually revised to match the laboratory report.

The extraction date information in the EDD did not match the laboratory report or was blank. The project management team confirmed that this information was not needed in the EDD; therefore, all extraction date information except the field header was deleted from the EDD.

The sample analysis time was reported as a default value of 12 AM or 00:00 hours for the LCSD in the analysis date field. The analysis date was correct. The sample analysis time for the LCSD was not required for the EDD; therefore, this value was not manually revised.

Sample preservation, receipt, and holding times:

Within Criteria	Exceedance/Notes
Y	

Method blanks:

Within Criteria	Exceedance/Notes
N	Method blank samples LRB IHG230405A and LMB IHG230405A had detections of n-butyl acrylate below the RL. Associated sample results were non-detect for this analyte. No data were qualified.

Field blanks:

Within Criteria	Exceedance/Notes
Y	

Surrogates and labeled compounds:

Within Criteria	Exceedance/Notes
NA	



Within Criteria	Exceedance/Notes
NA	

Laboratory duplicates:

Within Criteria	Exceedance/Notes
NA	

Field duplicates:

Within Criteria	Exceedance/Notes
NA	

LCSs/LCSDs:

Within Criteria	Exceedance/Notes
Y	The laboratory report and the EDD have one or more minor discrepancies in the LCS/LCSD results (+/- 1 ug) and/or percent recoveries (+/- 1%) that were verified with the laboratory to be a significant figures issue. No qualification was applied.

Sample dilutions:

Within Criteria	Exceedance/Notes
NA	

Re-extraction and reanalysis:

Within Criteria	Exceedance/Notes
NA	



MDLs/RLs:

Within Criteria	Exceedance/Notes
Y	Method detection limits were not reported. Non-detect sample results are reported as less than the reporting limit in the laboratory report and at the reporting limit (flagged U) in the EDD and attached qualified data table.

Tentatively identified compounds:

Within Criteria	Exceedance/Notes
NA	

Other [None]:

Within Criteria	Exceedance/Notes
NA	

Overall Qualifications:

See results summary pages attached for changes to the laboratory qualifiers based upon this validation. The following is a list of qualifiers and definitions that may be used for the validation of this data package:

J	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.
J+	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased high.
J-	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased low.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated value is the approximate concentration of the analyte in the sample.
R	The sample result is rejected as unusable due to serious deficiencies in one or more quality control criteria. The analyte may or may not be present in the sample.
U	The analyte was analyzed for but was not detected at or above the associated value (reporting limit).
UJ	The analyte was analyzed for but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria.
NF	The tentatively identified compound was manually searched for but was not found in the sample.



E PALESTINE SITE - ER AIR ANALYTICAL RESULTS SUMMARY EUROFINS ANALYTICS, LLC REPORT NO. B095-004

Sample_ID	Method	CAS#	Analyte	Lab_Result L	_ab_Qual	MDL RL	Units	VAL_Result	VAL_Qual
EPD-ST-8H-DW-D-040323-1	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	0.018 ป	J	0.01	8 ppm	0.018	U
EPD-ST-8H-DW-D-040323-1	IHGC-P029	141-32-2	n-Butyl acrylate	0.012 ป	J	0.01	2 ppm	0.012	U
EPD-ST-8H-WA-02-040323-1	. IHGC-P029	103-11-7	2-Ethylhexyl acrylate	0.019 เ	J	0.01	9 ppm	0.019	U
EPD-ST-8H-WA-02-040323-1	. IHGC-P029	141-32-2	n-Butyl acrylate	0.013 เ	J	0.01	3 ppm	0.013	U
EPD-ST-DW-D-040323-1	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	0.03 เ	J	0.0	3 ppm	0.03	U
EPD-ST-DW-D-040323-1	IHGC-P029	141-32-2	n-Butyl acrylate	0.02 เ	J	0.0	2 ppm	0.02	U
EPD-ST-DW-D-040323-2	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	0.031 เ	J	0.03	1 ppm	0.031	U
EPD-ST-DW-D-040323-2	IHGC-P029	141-32-2	n-Butyl acrylate	0.021 เ	J	0.02	1 ppm	0.021	U
EPD-ST-FB-040323-1	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	2.8 l	J	2.	8 ug	2.8	U
EPD-ST-FB-040323-1	IHGC-P029	141-32-2	n-Butyl acrylate	1.3 l	J	1.	3 ug	1.3	U
EPD-ST-UW-H-040323-1	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	0.028 เ	J	0.02	8 ppm	0.028	U
EPD-ST-UW-H-040323-1	IHGC-P029	141-32-2	n-Butyl acrylate	0.019 เ	J	0.01	9 ppm	0.019	U
EPD-ST-UW-H-040323-2	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	0.029 เ	J	0.02	9 ppm	0.029	U
EPD-ST-UW-H-040323-2	IHGC-P029	141-32-2	n-Butyl acrylate	0.02 เ	J	0.0	2 ppm	0.02	U
EPD-ST-WA-01-040323-1	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	0.029 เ	J	0.02	9 ppm	0.029	U
EPD-ST-WA-01-040323-1	IHGC-P029	141-32-2	n-Butyl acrylate	0.02 เ	J	0.0	2 ppm	0.02	U
EPD-ST-WA-01-040323-2	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	0.029 เ	J	0.02	9 ppm	0.029	U
EPD-ST-WA-01-040323-2	IHGC-P029	141-32-2	n-Butyl acrylate	0.019 เ	J	0.01	9 ppm	0.019	U
EPD-ST-WA-02-040323-1	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	0.029 เ	J	0.02	9 ppm	0.029	U
EPD-ST-WA-02-040323-1	IHGC-P029	141-32-2	n-Butyl acrylate	0.019 เ	J	0.01	9 ppm	0.019	U
EPD-ST-WA-02-040323-2	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	0.03 เ	J	0.0	3 ppm	0.03	U
EPD-ST-WA-02-040323-2	IHGC-P029	141-32-2	n-Butyl acrylate	0.02 เ	J	0.0	2 ppm	0.02	U
EPD-ST-WA-03-040323-1	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	0.03 เ	J	0.0	3 ppm	0.03	U
EPD-ST-WA-03-040323-1	IHGC-P029	141-32-2	n-Butyl acrylate	0.02 เ	J	0.0	2 ppm	0.02	U
EPD-ST-WA-03-040323-2	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	0.03 เ	J	0.0	3 ppm	0.03	U
EPD-ST-WA-03-040323-2	IHGC-P029	141-32-2	n-Butyl acrylate	0.02 เ	J	0.0	2 ppm	0.02	U
EPD-ST-WA-04-040323-1	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	0.03 เ	J	0.0	3 ppm	0.03	U
EPD-ST-WA-04-040323-1	IHGC-P029	141-32-2	n-Butyl acrylate	0.02 เ	J	0.0	2 ppm	0.02	U
EPD-ST-WA-04-040323-2	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	0.028 เ	J	0.02	8 ppm	0.028	U
EPD-ST-WA-04-040323-2	IHGC-P029	141-32-2	n-Butyl acrylate	0.019 เ	J	0.01	9 ppm	0.019	U
EPD-ST-WA-05-040323-1	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	0.029 เ		0.02	9 ppm	0.029	U
EPD-ST-WA-05-040323-1	IHGC-P029	141-32-2	n-Butyl acrylate	0.019 เ	J	0.01	9 ppm	0.019	U

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Sample_ID	Method	CAS#	Analyte	Lab_Result Lab_Qual	MDL RL Units	VAL_Result VAL_Qual
EPD-ST-WA-05-040323-2	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	0.03 U	0.03 ppm	0.03 U
EPD-ST-WA-05-040323-2	IHGC-P029	141-32-2	n-Butyl acrylate	0.02 U	0.02 ppm	0.02 U
EPD-ST-WA-06-040323-1	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	0.028 U	0.028 ppm	0.028 U
EPD-ST-WA-06-040323-1	IHGC-P029	141-32-2	n-Butyl acrylate	0.019 U	0.019 ppm	0.019 U
EPD-ST-WA-06-040323-2	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	0.026 U	0.026 ppm	0.026 U
EPD-ST-WA-06-040323-2	IHGC-P029	141-32-2	n-Butyl acrylate	0.018 U	0.018 ppm	0.018 U

Site Name	E Palestine Site - ER		TO/TOLIN No.	68HE0520F0032/0001EB201		
Document Tracking No.	1890b		TO/TOLIN No.	08HE0320F0032/0001EB201		
Laboratory Report No.	B095-005		Laboratory	Eurofins Analytics, LLC, Ashland VA		
Analyses	2-Ethylhexyl acrylate and n-butyl acrylate by laboratory standard operating procedure (SOP) IHGC-P029					
Samples and Matrix	Nineteen air samples, including one field blank					
Collection Date(s)	04/03/2023					
Field Duplicate Pairs	None					
Field QC Blanks	EPD-ST-FB-040323-2					

INTRODUCTION

This checklist summarizes the Stage 2A validation performed on the subject laboratory report, in accordance with the U.S. Environmental Protection Agency (EPA) *Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use* (January 2009). Analytical data were evaluated in general accordance with the Tetra Tech *Quality Assurance Project Plan, East Palestine Train Derailment Site, East Palestine, Columbiana County, Ohio, EPA Region 5, Revision 3* (April 2023), the Tetra Tech *Quality Assurance Project Plan, Superfund Technical Assessment and Response Team (START V), EPA Region 5, Revision 4* (August 2022), and the EPA *National Functional Guidelines (NFG) for Organic Superfund Methods Data Review* (November 2020).

OVERALL EVALUATION

No rejection or qualification of results was required for this data package. The results may be used as reported by the laboratory.

Data completeness:

Within Criteria	Exceedance/Notes
	Level II SDG did not have the required QC forms, thus a level IV package was reviewed.
Y	The results for the field blank were reported in units of micrograms (µg) while the other sample results were reported in units of µg, milligram per cubic meter (mg/m3), and parts per million (ppm) (volume) in the laboratory report and only ppm in the electronic data deliverable (EDD).
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Sample preservation, receipt, and holding times:

Within Criteria	Exceedance/Notes
Y	

Method blanks:

Within Criteria	Exceedance/Notes
N	Method blank samples LRB IHG230405B and LMB IHG230405B had detections of n-butyl acrylate below the RL. Associated sample results were non-detect for this analyte. No data were qualified.

Field blanks:

Within Criteria	Exceedance/Notes
Y	

Surrogates and labeled compounds:

Within Criteria	Exceedance/Notes
NA	



MS/MSDs	s:
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Within Criteria	Exceedance/Notes
NA	

Laboratory duplicates:

Within Criteria	Exceedance/Notes
NA	

Field duplicates:

Within Criteria	Exceedance/Notes
NA	

LCSs/LCSDs:

Within Criteria	Exceedance/Notes
Y	The laboratory report and the EDD have one or more minor discrepancies in the LCS/LCSD results (+/- 1 ug) and/or percent recoveries (+/- 1%) that were verified with the laboratory to be a significant figures issue. No qualification was applied.

Sample dilutions:

Within Criteria	Exceedance/Notes
NA	

Re-extraction and reanalysis:

Within Criteria	Exceedance/Notes
NA	



MDLs/RLs:

Within Criteria	Exceedance/Notes
Y	Method detection limits were not reported. Non-detect sample results are reported as less than the reporting limit in the laboratory report and at the reporting limit (flagged U) in the EDD and attached qualified data table.

Tentatively identified compounds:

Within Criteria	Exceedance/Notes
NA	

Other [None]:

Within Criteria	
NA	

Overall Qualifications:

See results summary pages attached for changes to the laboratory qualifiers based upon this validation. The following is a list of qualifiers and definitions that may be used for the validation of this data package:

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NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated value is the approximate concentration of the analyte in the sample.
R	The sample result is rejected as unusable due to serious deficiencies in one or more quality control criteria. The analyte may or may not be present in the sample.
U	The analyte was analyzed for but was not detected at or above the associated value (reporting limit).
UJ	The analyte was analyzed for but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria.
NF	The tentatively identified compound was manually searched for but was not found in the sample.

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Sample_ID	Method	CAS#	Analyte	Lab_Result	Lab_Qual	MDL RL	Units	VAL_Result \	VAL_Qual
EPD-ST-8H-DW-A-040323-2	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	0.019	U	0.01	9 ppm	0.019	U
EPD-ST-8H-DW-A-040323-2	IHGC-P029	141-32-2	n-Butyl acrylate	0.012	U	0.01	2 ppm	0.012	U
EPD-ST-8H-WA-03-040323-2	HGC-P029	103-11-7	2-Ethylhexyl acrylate	0.018	U	0.01	8 ppm	0.018	U
EPD-ST-8H-WA-03-040323-2	HGC-P029	141-32-2	n-Butyl acrylate	0.012	U	0.01	2 ppm	0.012	U
EPD-ST-DW-A-040323-3	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	0.032	U	0.03	2 ppm	0.032	U
EPD-ST-DW-A-040323-3	IHGC-P029	141-32-2	n-Butyl acrylate	0.022	U	0.02	2 ppm	0.022 (U
EPD-ST-DW-A-040323-4	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	0.032	U	0.03	2 ppm	0.032	U
EPD-ST-DW-A-040323-4	IHGC-P029	141-32-2	n-Butyl acrylate	0.021	U	0.02	1 ppm	0.021	U
EPD-ST-FB-040323-2	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	2.8	U	2.	8 ug	2.8 (U
EPD-ST-FB-040323-2	IHGC-P029	141-32-2	n-Butyl acrylate	1.3	U	1.	3 ug	1.3 \	U
EPD-ST-UW-E-040323-3	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	0.031	U	0.03	1 ppm	0.031	U
EPD-ST-UW-E-040323-3	IHGC-P029	141-32-2	n-Butyl acrylate	0.021	U	0.02	1 ppm	0.021	U
EPD-ST-UW-E-040323-4	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	0.031	U	0.03	1 ppm	0.031	U
EPD-ST-UW-E-040323-4	IHGC-P029	141-32-2	n-Butyl acrylate	0.021	U	0.02	1 ppm	0.021	U
EPD-ST-WA-01-040323-3	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	0.03	U	0.0	3 ppm	0.03	U
EPD-ST-WA-01-040323-3	IHGC-P029	141-32-2	n-Butyl acrylate	0.02	U	0.0	2 ppm	0.02	U
EPD-ST-WA-01-040323-4	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	0.031	U	0.03	1 ppm	0.031	U
EPD-ST-WA-01-040323-4	IHGC-P029	141-32-2	n-Butyl acrylate	0.021	U	0.02	1 ppm	0.021	U
EPD-ST-WA-02-040323-3	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	0.031	U	0.03	1 ppm	0.031	U
EPD-ST-WA-02-040323-3	IHGC-P029	141-32-2	n-Butyl acrylate	0.021	U	0.02	1 ppm	0.021	U
EPD-ST-WA-02-040323-4	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	0.032	U	0.03	2 ppm	0.032	U
EPD-ST-WA-02-040323-4	IHGC-P029	141-32-2	n-Butyl acrylate	0.021	U	0.02	1 ppm	0.021	U
EPD-ST-WA-03-040323-3	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	0.031	U	0.03	1 ppm	0.031	U
EPD-ST-WA-03-040323-3	IHGC-P029	141-32-2	n-Butyl acrylate	0.021	U	0.02	1 ppm	0.021	U
EPD-ST-WA-03-040323-4	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	0.03	U	0.0	3 ppm	0.03	U
EPD-ST-WA-03-040323-4	IHGC-P029	141-32-2	n-Butyl acrylate	0.02	U	0.0	2 ppm	0.02	U
EPD-ST-WA-04-040323-3	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	0.031	U	0.03	1 ppm	0.031	U
EPD-ST-WA-04-040323-3	IHGC-P029	141-32-2	n-Butyl acrylate	0.021	U	0.02	1 ppm	0.021	U
EPD-ST-WA-04-040323-4	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	0.032	U	0.03	2 ppm	0.032	U
EPD-ST-WA-04-040323-4	IHGC-P029	141-32-2	n-Butyl acrylate	0.021	U	0.02	1 ppm	0.021	U
EPD-ST-WA-05-040323-3	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	0.03	U	0.0	3 ppm	0.03	U
EPD-ST-WA-05-040323-3	IHGC-P029	141-32-2	n-Butyl acrylate	0.02	U	0.0	2 ppm	0.02 (U

E PALESTINE SITE - ER AIR ANALYTICAL RESULTS SUMMARY EUROFINS ANALYTICS, LLC REPORT NO. B095-005

Sample_ID	Method	CAS#	Analyte	Lab_Result Lab_Qual	MDL RL Units	VAL_Result VAL_Qual
EPD-ST-WA-05-040323-4	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	0.031 U	0.031 ppm	0.031 U
EPD-ST-WA-05-040323-4	IHGC-P029	141-32-2	n-Butyl acrylate	0.02 U	0.02 ppm	0.02 U
EPD-ST-WA-06-040323-3	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	0.031 U	0.031 ppm	0.031 U
EPD-ST-WA-06-040323-3	IHGC-P029	141-32-2	n-Butyl acrylate	0.021 U	0.021 ppm	0.021 U
EPD-ST-WA-06-040323-4	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	0.031 U	0.031 ppm	0.031 U
EPD-ST-WA-06-040323-4	IHGC-P029	141-32-2	n-Butyl acrylate	0.021 U	0.021 ppm	0.021 U

Site Name	E Palestine Site - ER	TO/TOLIN No.	68HE0520F0032/0001EB201		
Document Tracking No.	1890c	10/10LIN No.	08HEU32UFUU32/UU01EB2U1		
Laboratory Report No.	B096-006	Laboratory	Eurofins Analytics, LLC, Ashland VA		
Analyses	2-Ethylhexyl acrylate and n-butyl acrylate by laboratory standard operating procedure (SOP) IHGC-P029				
Samples and Matrix	Nineteen air samples, including one field blank				
Collection Date(s)	04/04/2023				
Field Duplicate Pairs	None				
Field QC Blanks	EPD-ST-FB-040423-1				

INTRODUCTION

This checklist summarizes the Stage 2A validation performed on the subject laboratory report, in accordance with the U.S. Environmental Protection Agency (EPA) *Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use* (January 2009). Analytical data were evaluated in general accordance with the Tetra Tech *Quality Assurance Project Plan, East Palestine Train Derailment Site, East Palestine, Columbiana County, Ohio, EPA Region 5, Revision 3* (April 2023), the Tetra Tech *Quality Assurance Project Plan, Superfund Technical Assessment and Response Team (START V), EPA Region 5, Revision 4* (August 2022), and the EPA *National Functional Guidelines (NFG) for Organic Superfund Methods Data Review* (November 2020).

OVERALL EVALUATION

No rejection or qualification of results was required for this data package. The results may be used as reported by the laboratory.

Data completeness:

Within Criteria	Exceedance/Notes
	Level II SDG did not have the required QC forms, thus a level IV package was reviewed.
Y	The results for the field blank were reported in units of micrograms (µg) while the other sample results were reported in units of µg, milligram per cubic meter (mg/m3), and parts per million (ppm) (volume) in the laboratory report and only ppm in the electronic data deliverable (EDD).
	The laboratory report included the following note: "The method reference, Rohm & Haas IH9805 is referenced to the AIHA certification as "IHGC-P029" and "Rohm & Haas IH9805" was listed in the EDD for QC samples. The laboratory confirmed that these refer to the same laboratory SOP; therefore, the method reference for QC samples was manually revised to "IHGC-P029" to match the method reference for field samples.

A unique sample ID not provided for LCSD. Unique IDs are needed to keep from overwriting QC sample IDs when EDDs are uploaded to the client database. The LCSD ID (in the Samp_No and Lab_Samp_No fields) in the EDD were manually revised to match the laboratory report.

The extraction date information in the EDD did not match the laboratory report or was blank. The project management team confirmed that this information was not needed in the EDD; therefore, all extraction date information except the field header was deleted from the EDD.

The sample analysis time was reported as a default value of 12 AM or 00:00 hours for the LCSD in the analysis date field. The analysis date was correct. The sample analysis time for the LCSD was not required for the EDD; therefore, this value was not manually revised.

Sample preservation, receipt, and holding times:

Within Criteria	Exceedance/Notes
Y	

Method blanks:

Within Criteria	Exceedance/Notes
Y	

Field blanks:

Within Criteria	Exceedance/Notes
Y	

Surrogates and labeled compounds:

Within Criteria	
NA	



MS/MSDs:

Within Criteria	Exceedance/Notes
NA	

Laboratory duplicates:

Within Criteria	Exceedance/Notes
NA	

Field duplicates:

riciu uupii	reacts.
Within Criteria	Exceedance/Notes
NA	

LCSs/LCSDs:

Within Criteria	Exceedance/Notes
Y	The laboratory report and the EDD have one or more minor discrepancies in the LCS/LCSD results (+/- 1 ug) and/or percent recoveries (+/- 1%) that were verified with the laboratory to be a significant figures issue. No qualification was applied.

Sample dilutions:

Within Criteria	Exceedance/Notes
NA	

Re-extraction and reanalysis:

	V
Within Criteria	
Criteria	
NA	



MDLs/RLs:

Within Criteria	Exceedance/Notes
Y	Method detection limits were not reported. Non-detect sample results are reported as less than the reporting limit in the laboratory report and at the reporting limit (flagged U) in the EDD and attached qualified data table.

Tentatively identified compounds:

Within Criteria	Exceedance/Notes
NA	

Other [None]:

Within Criteria	Exceedance/Notes
NA	

Overall Qualifications:

See results summary pages attached for changes to the laboratory qualifiers based upon this validation. The following is a list of qualifiers and definitions that may be used for the validation of this data package:

J	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.
J+	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased high.
J-	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased low.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated value is the approximate concentration of the analyte in the sample.
R	The sample result is rejected as unusable due to serious deficiencies in one or more quality control criteria. The analyte may or may not be present in the sample.
U	The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).
UJ	The analyte was analyzed for, but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria.
NF	The tentatively identified compound was manually searched for but was not found in the sample.

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Sample_ID	Method	CAS#	Analyte	Lab_Result Lab_Qual	MDL RL Units	VAL_Result VAL_Qual
EPD-ST-8H-DW-A-040423-1	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	0.018 U	0.018 ppm	0.018 U
EPD-ST-8H-DW-A-040423-1	IHGC-P029	141-32-2	n-Butyl acrylate	0.012 U	0.012 ppm	0.012 U
EPD-ST-8H-WA-03-040423-1	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	0.018 U	0.018 ppm	0.018 U
EPD-ST-8H-WA-03-040423-1	IHGC-P029	141-32-2	n-Butyl acrylate	0.012 U	0.012 ppm	0.012 U
EPD-ST-DW-A-040423-1	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	0.029 U	0.029 ppm	0.029 U
EPD-ST-DW-A-040423-1	IHGC-P029	141-32-2	n-Butyl acrylate	0.019 U	0.019 ppm	0.019 U
EPD-ST-DW-A-040423-2	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	0.03 U	0.03 ppm	0.03 U
EPD-ST-DW-A-040423-2	IHGC-P029	141-32-2	n-Butyl acrylate	0.02 U	0.02 ppm	0.02 U
EPD-ST-FB-040423-1	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	2.8 U	2.8 ug	2.8 U
EPD-ST-FB-040423-1	IHGC-P029	141-32-2	n-Butyl acrylate	1.3 U	1.3 ug	1.3 U
EPD-ST-UW-E-040423-1	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	0.029 U	0.029 ppm	0.029 U
EPD-ST-UW-E-040423-1	IHGC-P029	141-32-2	n-Butyl acrylate	0.02 U	0.02 ppm	0.02 U
EPD-ST-UW-E-040423-2	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	0.029 U	0.029 ppm	0.029 U
EPD-ST-UW-E-040423-2	IHGC-P029	141-32-2	n-Butyl acrylate	0.019 U	0.019 ppm	0.019 U
EPD-ST-WA-01-040423-1	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	0.029 U	0.029 ppm	0.029 U
EPD-ST-WA-01-040423-1	IHGC-P029	141-32-2	n-Butyl acrylate	0.02 U	0.02 ppm	0.02 U
EPD-ST-WA-01-040423-2	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	0.031 U	0.031 ppm	0.031 U
EPD-ST-WA-01-040423-2	IHGC-P029	141-32-2	n-Butyl acrylate	0.021 U	0.021 ppm	0.021 U
EPD-ST-WA-02-040423-1	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	0.03 U	0.03 ppm	0.03 U
EPD-ST-WA-02-040423-1	IHGC-P029	141-32-2	n-Butyl acrylate	0.02 U	0.02 ppm	0.02 U
EPD-ST-WA-02-040423-2	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	0.03 U	0.03 ppm	0.03 U
EPD-ST-WA-02-040423-2	IHGC-P029	141-32-2	n-Butyl acrylate	0.02 U	0.02 ppm	0.02 U
EPD-ST-WA-03-040423-1	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	0.029 U	0.029 ppm	0.029 U
EPD-ST-WA-03-040423-1	IHGC-P029	141-32-2	n-Butyl acrylate	0.02 U	0.02 ppm	0.02 U
EPD-ST-WA-03-040423-2	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	0.028 U	0.028 ppm	0.028 U
EPD-ST-WA-03-040423-2	IHGC-P029	141-32-2	n-Butyl acrylate	0.019 U	0.019 ppm	0.019 U
EPD-ST-WA-04-040423-1	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	0.03 U	0.03 ppm	0.03 U
EPD-ST-WA-04-040423-1	IHGC-P029	141-32-2	n-Butyl acrylate	0.02 U	0.02 ppm	0.02 U
EPD-ST-WA-04-040423-2	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	0.03 U	0.03 ppm	0.03 U
EPD-ST-WA-04-040423-2	IHGC-P029	141-32-2	n-Butyl acrylate	0.02 U	0.02 ppm	0.02 U
EPD-ST-WA-05-040423-1	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	0.032 U	0.032 ppm	0.032 U
EPD-ST-WA-05-040423-1	IHGC-P029	141-32-2	n-Butyl acrylate	0.021 U	0.021 ppm	0.021 U

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Sample_ID	Method	CAS#	Analyte	Lab_Result Lab_Qual	MDL I	RL Units	VAL_Result VAL_Qual
EPD-ST-WA-05-040423-2	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	0.031 U		0.031 ppm	0.031 U
EPD-ST-WA-05-040423-2	IHGC-P029	141-32-2	n-Butyl acrylate	0.021 U		0.021 ppm	0.021 U
EPD-ST-WA-06-040423-1	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	0.031 U		0.031 ppm	0.031 U
EPD-ST-WA-06-040423-1	IHGC-P029	141-32-2	n-Butyl acrylate	0.021 U		0.021 ppm	0.021 U
EPD-ST-WA-06-040423-2	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	0.03 U		0.03 ppm	0.03 U
EPD-ST-WA-06-040423-2	IHGC-P029	141-32-2	n-Butyl acrylate	0.02 U		0.02 ppm	0.02 U

Site Name	E Palestine Site - ER		TO/TOLIN No.	68HE0520F0032/0001EB201	
Document Tracking No. 1890d			TO/TOLIN No.		
Laboratory Report No.	B096-007		Laboratory	Eurofins Analytics, LLC, Ashland VA	
Analyses	2-Ethylhexyl acrylate and n-butyl acrylate	by	laboratory standard oper	rating procedure (SOP) IHGC-P029	
Samples and Matrix	Nineteen air samples, including one field blank				
Collection Date(s)	04/04/2023				
Field Duplicate Pairs	None				
Field QC Blanks	EPD-ST-FB-040423-2				

INTRODUCTION

This checklist summarizes the Stage 2A validation performed on the subject laboratory report, in accordance with the U.S. Environmental Protection Agency (EPA) *Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use* (January 2009). Analytical data were evaluated in general accordance with the Tetra Tech *Quality Assurance Project Plan, East Palestine Train Derailment Site, East Palestine, Columbiana County, Ohio, EPA Region 5, Revision 3* (April 2023), the Tetra Tech *Quality Assurance Project Plan, Superfund Technical Assessment and Response Team (START V), EPA Region 5, Revision 4* (August 2022), and the EPA *National Functional Guidelines (NFG) for Organic Superfund Methods Data Review* (November 2020).

OVERALL EVALUATION

No rejection or qualification of results was required for this data package. The results may be used as reported by the laboratory.

Data completeness:

Within Criteria	Exceedance/Notes
	Level II SDG did not have the required QC forms, thus a level IV package was reviewed. The results for the field blank were reported in units of micrograms (µg) while the other sample results were reported in units of µg, millioner par only mater (mg/m²) and parts per million (npm) (volume) in the laboratory report and only npm in the electronic
Y	milligram per cubic meter (mg/m3), and parts per million (ppm) (volume) in the laboratory report and only ppm in the electronic data deliverable (EDD).
	The laboratory report included the following note: "The method reference, Rohm & Haas IH9805 is referenced to the AIHA certification as "IHGC-P029" and "Rohm & Haas IH9805" was listed in the EDD for QC samples. The laboratory confirmed that these refer to the same laboratory SOP; therefore, the method reference for QC samples was manually revised to "IHGC-P029" to match the method reference for field samples.

A unique sample ID not provided for LCSD. Unique IDs are needed to keep from overwriting QC sample IDs when EDDs are uploaded to the client database. The LCSD ID (in the Samp_No and Lab_Samp_No fields) in the EDD were manually revised to match the laboratory report.

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The sample analysis time was reported as a default value of 12 AM or 00:00 hours for the LCSD in the analysis date field. The analysis date was correct. The sample analysis time for the LCSD was not required for the EDD; therefore, this value was not manually revised.

Sample preservation, receipt, and holding times:

Within Criteria	Exceedance/Notes
Y	

Method blanks:

Within Criteria	Exceedance/Notes
Y	

Field blanks:

With Crite	Exceedance/Notes
Y	

Surrogates and labeled compounds:

Within Criteria	
NA	



MS/MSDs:

Within Criteria	Exceedance/Notes
NA	

Laboratory duplicates:

Within Criteria	Exceedance/Notes
NA	

Field duplicates:

riciu uupii	Treat auphraics.	
Within Criteria	Exceedance/Notes	
NA		

LCSs/LCSDs:

Within Criteria	Exceedance/Notes
Y	The laboratory report and the EDD have one or more minor discrepancies in the LCS/LCSD results (+/- 1 ug) and/or percent recoveries (+/- 1%) that were verified with the laboratory to be a significant figures issue. No qualification was applied.

Sample dilutions:

Within Criteria	Exceedance/Notes
NA	

Re-extraction and reanalysis:

	V
Within Criteria	
Criteria	
NA	



MDLs/RLs:

Within Criteria	Exceedance/Notes
Y	Method detection limits were not reported. Non-detect sample results are reported as less than the reporting limit in the laboratory report and at the reporting limit (flagged U) in the EDD and attached qualified data table.

Tentatively identified compounds:

Within Criteria	Exceedance/Notes
NA	

Other [None]:

Within Criteria	Exceedance/Notes
NA	

Overall Qualifications:

See results summary pages attached for changes to the laboratory qualifiers based upon this validation. The following is a list of qualifiers and definitions that may be used for the validation of this data package:

J	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.
J+	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased high.
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R	The sample result is rejected as unusable due to serious deficiencies in one or more quality control criteria. The analyte may or may not be present in the sample.
U	The analyte was analyzed for but was not detected at or above the associated value (reporting limit).
UJ	The analyte was analyzed for but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria.
NF	The tentatively identified compound was manually searched for but was not found in the sample.

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Sample_ID	Method	CAS#	Analyte	Lab_Result Lab_Qual	MDL RL Units	VAL_Result VAL_Qual
EPD-ST-8H-DW-H-040423-2	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	0.015 U	0.015 ppm	0.015 U
EPD-ST-8H-DW-H-040423-2	IHGC-P029	141-32-2	n-Butyl acrylate	0.01 U	0.01 ppm	0.01 U
EPD-ST-8H-WA-03-040423-2	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	0.015 U	0.015 ppm	0.015 U
EPD-ST-8H-WA-03-040423-2	IHGC-P029	141-32-2	n-Butyl acrylate	0.01 U	0.01 ppm	0.01 U
EPD-ST-DW-H-040423-3	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	0.031 U	0.031 ppm	0.031 U
EPD-ST-DW-H-040423-3	IHGC-P029	141-32-2	n-Butyl acrylate	0.02 U	0.02 ppm	0.02 U
EPD-ST-DW-H-040423-4	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	0.031 U	0.031 ppm	0.031 U
EPD-ST-DW-H-040423-4	IHGC-P029	141-32-2	n-Butyl acrylate	0.02 U	0.02 ppm	0.02 U
EPD-ST-FB-040423-2	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	2.8 U	2.8 ug	2.8 U
EPD-ST-FB-040423-2	IHGC-P029	141-32-2	n-Butyl acrylate	1.3 U	1.3 ug	1.3 U
EPD-ST-UW-D-040423-3	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	0.03 U	0.03 ppm	0.03 U
EPD-ST-UW-D-040423-3	IHGC-P029	141-32-2	n-Butyl acrylate	0.02 U	0.02 ppm	0.02 U
EPD-ST-UW-D-040423-4	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	0.025 U	0.025 ppm	0.025 U
EPD-ST-UW-D-040423-4	IHGC-P029	141-32-2	n-Butyl acrylate	0.016 U	0.016 ppm	0.016 U
EPD-ST-WA-01-040423-3	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	0.03 U	0.03 ppm	0.03 U
EPD-ST-WA-01-040423-3	IHGC-P029	141-32-2	n-Butyl acrylate	0.02 U	0.02 ppm	0.02 U
EPD-ST-WA-01-040423-4	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	0.031 U	0.031 ppm	0.031 U
EPD-ST-WA-01-040423-4	IHGC-P029	141-32-2	n-Butyl acrylate	0.021 U	0.021 ppm	0.021 U
EPD-ST-WA-02-040423-3	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	0.031 U	0.031 ppm	0.031 U
EPD-ST-WA-02-040423-3	IHGC-P029	141-32-2	n-Butyl acrylate	0.021 U	0.021 ppm	0.021 U
EPD-ST-WA-02-040423-4	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	0.031 U	0.031 ppm	0.031 U
EPD-ST-WA-02-040423-4	IHGC-P029	141-32-2	n-Butyl acrylate	0.02 U	0.02 ppm	0.02 U
EPD-ST-WA-03-040423-3	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	0.029 U	0.029 ppm	0.029 U
EPD-ST-WA-03-040423-3	IHGC-P029	141-32-2	n-Butyl acrylate	0.019 U	0.019 ppm	0.019 U
EPD-ST-WA-03-040423-4	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	0.031 U	0.031 ppm	0.031 U
EPD-ST-WA-03-040423-4	IHGC-P029	141-32-2	n-Butyl acrylate	0.021 U	0.021 ppm	0.021 U
EPD-ST-WA-04-040423-3	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	0.031 U	0.031 ppm	0.031 U
EPD-ST-WA-04-040423-3	IHGC-P029	141-32-2	n-Butyl acrylate	0.021 U	0.021 ppm	0.021 U
EPD-ST-WA-04-040423-4	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	0.032 U	0.032 ppm	0.032 U
EPD-ST-WA-04-040423-4	IHGC-P029	141-32-2	n-Butyl acrylate	0.021 U	0.021 ppm	0.021 U
EPD-ST-WA-05-040423-3	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	0.033 U	0.033 ppm	0.033 U
EPD-ST-WA-05-040423-3	IHGC-P029	141-32-2	n-Butyl acrylate	0.022 U	0.022 ppm	0.022 U

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Sample_ID	Method	CAS#	Analyte	Lab_Result Lab_Qual	MDL RL Units	VAL_Result VAL_Qual
EPD-ST-WA-05-040423-4	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	0.031 U	0.031 ppm	0.031 U
EPD-ST-WA-05-040423-4	IHGC-P029	141-32-2	n-Butyl acrylate	0.02 U	0.02 ppm	0.02 U
EPD-ST-WA-06-040423-3	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	0.03 U	0.03 ppm	0.03 U
EPD-ST-WA-06-040423-3	IHGC-P029	141-32-2	n-Butyl acrylate	0.02 U	0.02 ppm	0.02 U
EPD-ST-WA-06-040423-4	IHGC-P029	103-11-7	2-Ethylhexyl acrylate	0.031 U	0.031 ppm	0.031 U
EPD-ST-WA-06-040423-4	IHGC-P029	141-32-2	n-Butyl acrylate	0.021 U	0.021 ppm	0.021 U