

Preliminary Data from East Palestine (Ohio) Train Derailment for Volatile Organics

Data is preliminary, therefore subject to review and may be changed.

Samples collected by Ohio River Valley Water Sanitation Commission (ORSANCO); Analyzed by Greater Cincinnati Water Works (GCWW)

Highlighted in gray are the most recent Ohio River sample results collected by ORSANCO and analyzed by Greater Cincinnati Water Works with permission to share. The last samples were collected on April 24-25, 2023 and reflect the most recent data available. We will update this table as new data becomes available. The ATSDR Health Guidance Value listed below the table is for *Finished Drinking Water*, whereas all samples shown are raw water, collected directly from the river.

Ref	Site Description	City	State	River	Stream Mile Point	Sample Depth	Date	Time	n-Butyl Acrylate (ppb)	other VOCs (ppb)	Vinyl Chloride (ppb)	2-Ethyl Hexanol (ppb)	2-Ethylhexyl acrylate (ppb)
1	Grimms Bridge	East Liverpool	OH	Little Beaver Creek	3.0	Surface Grab	2/8/2023	1305	4.40	<0.50	<0.50	Present	Present
2	Lock 57 Park	Ohioville	PA	Little Beaver Creek	0.2	Surface Grab	2/8/2023	1330	12.5	<0.50	<0.50	Present	Present
3	East Liverpool	East Liverpool	OH	Ohio River	40.2	Intake: 10 ft	2/8/2023	1345	<1.00	<0.50	<0.50	Not Detected	Not Detected
4	Buckeye	Wellsville	OH	Ohio River	47.1	Intake: N/A	2/8/2023	1430	2.94	<0.50	<0.50	Not Detected	Not Detected
5	Toronto	Toronto	OH	Ohio River	59.2	Intake: 19 ft	2/8/2023	1515	<1.00	<0.50	<0.50	Not Detected	Not Detected
6	Steubenville	Steubenville	OH	Ohio River	65.3	Intake: 18 ft	2/8/2023	1550	1.23	<0.50	<0.50	Not Detected	Not Detected
7	Pike Island Lock & Dam	Wheeling	WV	Ohio River	84.2	Surface Grab	2/8/2023	1715	4.30	<0.50	<0.50	Not Detected	Not Detected
8	Bellaire	Bellaire	OH	Ohio River	93.9	Intake: N/A	2/8/2023	1805	<1.00	<0.50	<0.50	Not Detected	Not Detected
9	New Matamoras Boat Ramp	New Matamoras	OH	Ohio River	142.1	Surface Grab	2/12/2023	1330	<1.00	<0.50	<0.50	Not Detected	Not Detected
10	Wayne National Forest Boat Ramp	Grandview Township	OH	Ohio River	148.6	Surface Grab	2/12/2023	1400	<1.00	<0.50	<0.50	Not Detected	Not Detected
11	The Jug Dock	Newport	OH	Ohio River	155.7	Surface Grab	2/12/2023	1420	1.63	<0.50	<0.50	Not Detected	Not Detected
12	Campground Boat Lauch	Reno	OH	Ohio River	167.8	Surface Grab	2/12/2023	1440	2.16	<0.50	<0.50	Not Detected	Not Detected
13	Public Launch Ramp	Williamstown	WV	Ohio River	172.0	Surface Grab	2/12/2023	1500	1.47	<0.50	<0.50	Not Detected	Not Detected
14	Point Park	Parkersburg	WV	Ohio River	184.5	Surface Grab	2/12/2023	1535	<1.00	<0.50	<0.50	Not Detected	Not Detected
15	Belpre Boat Ramp	Belpre	OH	Ohio River	186.1	Surface Grab	2/12/2023	1600	<1.00	<0.50	<0.50	Not Detected	Not Detected
16	Athens Boat Club Dock	Hockingport	OH	Ohio River	199.3	Surface Grab	2/12/2023	1630	<1.00	<0.50	<0.50	Not Detected	Not Detected
17	Forked Run Ramp	Olive Township	OH	Ohio River	207.0	Surface Grab	2/12/2023	1650	<1.00	<0.50	<0.50	Not Detected	Not Detected
12	Campground Boat Lauch	Reno	OH	Ohio River	167.8	Surface Grab	2/13/2023	1110	<1.00	<0.50	<0.50	Not Detected	Not Detected
13	Public Launch Ramp	Williamstown	WV	Ohio River	172.0	Surface Grab	2/13/2023	1140	<1.00	<0.50	<0.50	Not Detected	Not Detected
14	Point Park	Parkersburg	WV	Ohio River	184.5	Surface Grab	2/13/2023	1210	1.86	<0.50	<0.50	Not Detected	Not Detected
15	Belpre Boat Ramp	Belpre	OH	Ohio River	186.1	Surface Grab	2/13/2023	1240	<1.00	<0.50	<0.50	Not Detected	Not Detected
16	Athens Boat Club Dock	Hockingport	OH	Ohio River	199.3	Surface Grab	2/13/2023	1345	<1.00	<0.50	<0.50	Not Detected	Not Detected
17	Forked Run Ramp	Olive Township	OH	Ohio River	207.0	Surface Grab	2/13/2023	1415	<1.00	<0.50	<0.50	Not Detected	Not Detected
18	Ravenswood Public Boat Launch	Ravenswood	WV	Ohio River	221.1	Surface Grab	2/13/2023	1505	<1.00	<0.50	<0.50	Not Detected	Not Detected
19	Private Dock	Letart Township	OH	Ohio River	226.8	Surface Grab	2/13/2023	1530	<1.00	<0.50	<0.50	Not Detected	Not Detected
14	Point Park	Parkersburg	WV	Ohio River	184.5	Surface Grab	2/14/2023	1245	<1.00	<0.50	<0.50	Not Detected	Not Detected
15	Belpre Boat Ramp	Belpre	OH	Ohio River	186.1	Surface Grab	2/14/2023	1320	<1.00	<0.50	<0.50	Not Detected	Not Detected
16	Athens Boat Club Dock	Hockingport	OH	Ohio River	199.3	Surface Grab	2/14/2023	1435	<1.00	<0.50	<0.50	Not Detected	Not Detected
17	Forked Run Ramp	Olive Township	OH	Ohio River	207.0	Surface Grab	2/14/2023	1500	<1.00	<0.50	<0.50	Not Detected	Not Detected
18	Ravenswood Public Boat Launch	Ravenswood	WV	Ohio River	221.1	Surface Grab	2/14/2023	1535	<1.00	<0.50	<0.50	Not Detected	Not Detected
19	Private Dock	Letart Township	OH	Ohio River	226.8	Surface Grab	2/14/2023	1620	<1.00	<0.50	<0.50	Not Detected	Not Detected
20	Old Lock & Dam 23	Apple Grove	OH	Ohio River	231.5	Surface Grab	2/14/2023	1645	<1.00	<0.50	<0.50	Not Detected	Not Detected
21	Racine Hydro	Racine	OH	Ohio River	237.7	Surface Grab	2/14/2023	1720	<1.00	<0.50	<0.50	Not Detected	Not Detected
10	Wayne National Forest Boat Ramp	Grandview Township	OH	Ohio River	148.6	Surface Grab	2/15/2023	1625	<1.00	<0.50	<0.50	Not Detected	Not Detected
12	Campground Boat Lauch	Reno	OH	Ohio River	167.8	Surface Grab	2/15/2023	1555	<1.00	<0.50	<0.50	Not Detected	Not Detected

Updated ATSDR comparison Values for Drinking Water- 02/11/23

based off derivation worksheet

Analyte	Screen Value, ppb	Source
n-Butyl acrylate	560	ATSDR Provisional Health Guidance Value (HGV)
2-ethylhexyl acrylate	500	ATSDR Provisional Health Guidance Value (HGV)
2-ethyl hexanol	200	ATSDR Provisional Health Guidance Value (HGV)

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Highlighted in gray are the most recent Ohio River sample results collected by ORSANCO and analyzed by Greater Cincinnati Water Works with permission to share. The last samples were collected on April 24-25, 2023 and reflect the most recent data available. We will update this table as new data becomes available. The ATSDR Health Guidance Value listed below the table is for *Finished Drinking Water*, whereas all samples shown are raw water, collected directly from the river.

Ref	Site Description	City	State	River	Stream Mile Point	Sample Depth	Date	Time	n-Butyl Acrylate (ppb)	other VOCs (ppb)	Vinyl Chloride (ppb)	2-Ethyl Hexanol (ppb)	2-Ethylhexyl acrylate (ppb)
13	Public Launch Ramp	Williamstown	WV	Ohio River	172.0	Surface Grab	2/15/2023	1520	<1.00	<0.50	<0.50	Not Detected	Not Detected
14	Point Park	Parkersburg	WV	Ohio River	184.5	Surface Grab	2/15/2023	1430	<1.00	<0.50	<0.50	Not Detected	Not Detected
15	Belpre Boat Ramp	Belpre	OH	Ohio River	186.1	Surface Grab	2/15/2023	1410	<1.00	<0.50	<0.50	Not Detected	Not Detected
16	Athens Boat Club Dock	Hockingport	OH	Ohio River	199.3	Surface Grab	2/15/2023	1340	<1.00	<0.50	<0.50	Not Detected	Not Detected
17	Forked Run Ramp	Olive Township	OH	Ohio River	207.0	Surface Grab	2/15/2023	1320	<1.00	<0.50	<0.50	Not Detected	Not Detected
18	Ravenswood Public Boat Launch	Ravenswood	WV	Ohio River	221.1	Surface Grab	2/15/2023	1235	1.29	<0.50	<0.50	Not Detected	Not Detected
19	Private Dock	Letart Township	OH	Ohio River	226.8	Surface Grab	2/15/2023	1210	1.62	<0.50	<0.50	Not Detected	Not Detected
20	Old Lock & Dam 23	Apple Grove	OH	Ohio River	231.5	Surface Grab	2/15/2023	1150	<1.00	<0.50	<0.50	Not Detected	Not Detected
21	Racine Hydro	Racine	OH	Ohio River	237.7	Surface Grab	2/15/2023	1130	1.44	<0.50	<0.50	Not Detected	Not Detected
22	Village of Syracuse Ramp	Syracuse	OH	Ohio River	245.5	Surface Grab	2/15/2023	1105	<1.00	<0.50	<0.50	Not Detected	Not Detected
23	Mason Public Ramp	Mason	WV	Ohio River	250.2	Surface Grab	2/15/2023	1035	<1.00	<0.50	<0.50	Not Detected	Not Detected
24	Cheshire Public Ramp	Cheshire	OH	Ohio River	257.8	Surface Grab	2/15/2023	0945	<1.00	<0.50	<0.50	Not Detected	Not Detected
25	Gallipolis Riverfront Boat Access	Gallipolis	OH	Ohio River	270.1	Surface Grab	2/15/2023	0915	<1.00	<0.50	<0.50	Not Detected	Not Detected
16	Athens Boat Club Dock	Hockingport	OH	Ohio River	199.3	Surface Grab	2/16/2023	1315	<1.00	<0.50	<0.50	Not Detected	Not Detected
17	Forked Run Ramp	Olive Township	OH	Ohio River	207.0	Surface Grab	2/16/2023	1340	<1.00	<0.50	<0.50	Not Detected	Not Detected
18	Ravenswood Public Boat Launch	Ravenswood	WV	Ohio River	221.1	Surface Grab	2/16/2023	1410	<1.00	<0.50	<0.50	Not Detected	Not Detected
19	Private Dock	Letart Township	OH	Ohio River	226.8	Surface Grab	2/16/2023	1425	<1.00	<0.50	<0.50	Not Detected	Not Detected
20	Old Lock & Dam 23	Apple Grove	OH	Ohio River	231.5	Surface Grab	2/16/2023	1445	<1.00	<0.50	<0.50	Not Detected	Not Detected
21	Racine Hydro	Racine	OH	Ohio River	237.7	Surface Grab	2/16/2023	1500	<1.00	<0.50	<0.50	Not Detected	Not Detected
22	Village of Syracuse Ramp	Syracuse	OH	Ohio River	245.5	Surface Grab	2/16/2023	1530	<1.00	<0.50	<0.50	Not Detected	Not Detected
23	Mason Public Ramp	Mason	WV	Ohio River	250.2	Surface Grab	2/16/2023	1550	1.18	<0.50	<0.50	Not Detected	Not Detected
24	Cheshire Public Ramp	Cheshire	OH	Ohio River	257.8	Surface Grab	2/16/2023	1620	<1.00	<0.50	<0.50	Not Detected	Not Detected
25	Gallipolis Riverfront Boat Access	Gallipolis	OH	Ohio River	270.1	Surface Grab	2/16/2023	1645	<1.00	<0.50	<0.50	Not Detected	Not Detected
26	RC Byrd Lock & Dam	Gallipolis Ferry	WV	Ohio River	279.2	Surface Grab	2/16/2023	1725	<1.00	<0.50	<0.50	Not Detected	Not Detected
17	Forked Run Ramp	Olive Township	OH	Ohio River	207.0	Surface Grab	2/17/2023	1350	<1.00	<0.50	<0.50	Not Detected	Not Detected
18	Ravenswood Public Boat Launch	Ravenswood	WV	Ohio River	221.1	Surface Grab	2/17/2023	1245	<1.00	<0.50	<0.50	Not Detected	Not Detected
19	Private Dock	Letart Township	OH	Ohio River	226.8	Surface Grab	2/17/2023	1230	<1.00	<0.50	<0.50	Not Detected	Not Detected
20	Old Lock & Dam 23	Apple Grove	OH	Ohio River	231.5	Surface Grab	2/17/2023	1210	<1.00	<0.50	<0.50	Not Detected	Not Detected
21	Racine Hydro	Racine	OH	Ohio River	237.7	Surface Grab	2/17/2023	1155	<1.00	<0.50	<0.50	Not Detected	Not Detected
23	Mason Public Ramp	Mason	WV	Ohio River	250.2	Surface Grab	2/17/2023	1125	<1.00	<0.50	<0.50	Not Detected	Not Detected
24	Cheshire Public Ramp	Cheshire	OH	Ohio River	257.8	Surface Grab	2/17/2023	1055	<1.00	<0.50	<0.50	Not Detected	Not Detected
25	Gallipolis Riverfront Boat Access	Gallipolis	OH	Ohio River	270.1	Surface Grab	2/17/2023	1025	1.01	<0.50	<0.50	Not Detected	Not Detected
26	RC Byrd Fishing Access	Ohio Township	OH	Ohio River	279.1	Surface Grab	2/17/2023	1005	<1.00	<0.50	<0.50	Not Detected	Not Detected
27	KH Butler Fishing Access	Crown City	OH	Ohio River	284.5	Surface Grab	2/17/2023	0945	<1.00	<0.50	<0.50	Not Detected	Not Detected
28	Athalia Boat Ramp	Athalia	OH	Ohio River	296.6	Surface Grab	2/17/2023	0915	<1.00	<0.50	<0.50	Not Detected	Not Detected

Updated ATSDR comparison Values for Drinking Water- 02/11/23

based off derivation worksheet

Analyte	Screen Value, ppb	Source
n-Butyl acrylate	560	ATSDR Provisional Health Guidance Value (HGV)
2-ethylhexyl acrylate	500	ATSDR Provisional Health Guidance Value (HGV)
2-ethyl hexanol	200	ATSDR Provisional Health Guidance Value (HGV)

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29	Old Lock & Dam 27	Proctorville	OH	Ohio River	301.1	Surface Grab	2/17/2023	0905	<1.00	<0.50	<0.50	Not Detected	Not Detected
30	Harris Park Public Ramp	Huntington	WV	Ohio River	308.1	Surface Grab	2/17/2023	0830	<1.00	<0.50	<0.50	Not Detected	Not Detected
31	Ashland Public Ramp	Ashland	KY	Ohio River	322.6	Surface Grab	2/18/2023	0917	<1.00	<0.50	<0.50	<2.00*	<1.00*
32	Ironton Public Ramp	Ironton	OH	Ohio River	327.0	Surface Grab	2/18/2023	0941	<1.00	<0.50	<0.50	<2.00	<1.00
33	Greenup Lock and Dam	Greenup	KY	Ohio River	341.0	Surface Grab	2/18/2023	1005	<1.00	<0.50	<0.50	<2.00	<1.00
34	Wheelersburg Ramp	Wheelersburg	OH	Ohio River	347.0	Surface Grab	2/18/2023	1028	<1.00	<0.50	<0.50	<2.00	<1.00
35	Portsmouth Public Ramp	Portsmouth	OH	Ohio River	355.6	Surface Grab	2/18/2023	1055	<1.00	<0.50	<0.50	<2.00	<1.00
36	Nace Run, Shawnee State Park Mar	Shawnee State	OH	Ohio River	363.0	Surface Grab	2/18/2023	1113	<1.00	<0.50	<0.50	<2.00	<1.00
37	Sandy Springs Campground	Rockville	OH	Ohio River	375.9	Surface Grab	2/18/2023	1137	<1.00	<0.50	<0.50	<2.00	<1.00
38	Rome Boat Ramp	Rome	OH	Ohio River	383.9	Surface Grab	2/18/2023	1155	<1.00	<0.50	<0.50	<2.00	<1.00
39	Manchester Public Access Boat Ran	Manchester	OH	Ohio River	395.8	Surface Grab	2/18/2023	1219	<1.00	<0.50	<0.50	<2.00	<1.00
40	Aberdeen Ramp	Aberdeen	OH	Ohio River	408.7	Surface Grab	2/18/2023	1248	<1.00	<0.50	<0.50	<2.00	<1.00
41	Ripley	Ripley	OH	Ohio River	415.8	Surface Grab	2/18/2023	1305	<1.00	<0.50	<0.50	<2.00	<1.00
42	White Oak Creek Marina	Pleasant Township	OH	Ohio River	424.0	Surface Grab	2/18/2023	1324	<1.00	<0.50	<0.50	<2.00	<1.00
43	Shady Rest Riverside Campground	Utopia	OH	Ohio River	430.0	Surface Grab	2/18/2023	1342	<1.00	<0.50	<0.50	<2.00	<1.00
44	Meldahl Lock and Dam	Felicity	OH	Ohio River	436.2	Surface Grab	2/18/2023	1408	<1.00	<0.50	<0.50	<2.00	<1.00
45	Thomas More Field Station	California	KY	Ohio River	451.0	Surface Grab	2/19/2023	0818	<1.00	<0.50	<0.50	<2.00	<1.00
46	Schmidt Field Ramp	Cincinnati	OH	Ohio River	466.5	Surface Grab	2/19/2023	0854	<1.00	<0.50	<0.50	<2.00	<1.00

* 2-ethyl hexanol (2EH) and 2-ethylhexyl acrylate (EHA) were qualitatively screened from February 8th to 17th. For samples beginning February 18th, GCWW lab calibrated for 2EH and EHA after acquiring standards. The practical quantitation limit (PQL) of 2EH is 2.00ppb, and the PQL of EHA is 1.00ppb.

47	Mehldahl Fishing Pier	Foster	KY	Ohio River	436.4	Surface Grab	2/19/2023	0750	<1.00	<0.50	<0.50	<2.00	<1.00
48	Cincinnati Public Landing	Cincinnati	OH	Ohio River	470.1	Surface Grab	2/19/2023	0915	<1.00	<0.50	<0.50	<2.00	<1.00
49	Anderson Ferry Ramp	Addyston	OH	Ohio River	477.5	Surface Grab	2/19/2023	0935	<1.00	<0.50	<0.50	<2.00	<1.00
50	Fernbank Park	Addyston	OH	Ohio River	483.6	Surface Grab	2/19/2023	0950	<1.00	<0.50	<0.50	<2.00	<1.00
51	Lawrenceburg	Lawrenceburg	IN	Ohio River	493.1	Surface Grab	2/19/2023	1030	<1.00	<0.50	<0.50	<2.00	<1.00
52	Aurora Public Landing (lower)	Aurora	IN	Ohio River	497	Surface Grab	2/19/2023	1059	<1.00	<0.50	<0.50	<2.00	<1.00
53	Rising Sun Public Ramp	Rising Sun	IN	Ohio River	506.1	Surface Grab	2/19/2023	1120	<1.00	<0.50	<0.50	<2.00	<1.00
54	Patriot-1	Patriot	IN	Ohio River	511.9	Surface Grab	2/19/2023	1145	<1.00	<0.50	<0.50	<2.00	<1.00
55	Patriot-2	Patriot	IN	Ohio River	518.5	Surface Grab	2/19/2023	1215	<1.00	<0.50	<0.50	<2.00	<1.00
56	Patriot-3	Patriot	IN	Ohio River	524.2	Surface Grab	2/19/2023	1233	<1.00	<0.50	<0.50	<2.00	<1.00
57	Markland	Florence	IN	Ohio River	531.5	Surface Grab	2/19/2023	1251	<1.00	<0.50	<0.50	<2.00	<1.00
58	Markland-Surface	Florence	IN	Ohio River	531.5	Surface Grab	2/19/2023	1900	<1.00	<0.50	<0.50	<2.00	<1.00
58	Markland-Surface	Florence	IN	Ohio River	531.5	Surface Grab	2/19/2023	2110	<1.00	<0.50	<0.50	<2.00	<1.00
58	Markland-Surface	Florence	IN	Ohio River	531.5	Surface Grab	2/19/2023	2310	<1.00	<0.50	<0.50	<2.00	<1.00
58	Markland-Mid Depth	Florence	IN	Ohio River	531.5	Surface Grab	2/19/2023	1902	<1.00	<0.50	<0.50	<2.00	<1.00

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based off derivation worksheet

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n-Butyl acrylate	560	ATSDR Provisional Health Guidance Value (HGV)
2-ethylhexyl acrylate	500	ATSDR Provisional Health Guidance Value (HGV)
2-ethyl hexanol	200	ATSDR Provisional Health Guidance Value (HGV)

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58	Markland-Mid Depth	Florence	IN	Ohio River	531.5	Surface Grab	2/19/2023	2105	<1.00	<0.50	<0.50	<2.00	<1.00
58	Markland-Mid Depth	Florence	IN	Ohio River	531.5	Surface Grab	2/19/2023	2305	<1.00	<0.50	<0.50	<2.00	<1.00
58	Markland-Bottom	Florence	IN	Ohio River	531.5	Surface Grab	2/19/2023	1904	<1.00	<0.50	<0.50	<2.00	<1.00
58	Markland-Bottom	Florence	IN	Ohio River	531.5	Surface Grab	2/19/2023	2100	<1.00	<0.50	<0.50	<2.00	<1.00
58	Markland-Bottom	Florence	IN	Ohio River	531.5	Surface Grab	2/19/2023	2300	<1.00	<0.50	<0.50	<2.00	<1.00
58	Markland-Surface	Florence	IN	Ohio River	531.5	Surface Grab	2/20/2023	0110	<1.00	<0.50	<0.50	<2.00	<1.00
58	Markland-Surface	Florence	IN	Ohio River	531.5	Surface Grab	2/20/2023	0310	<1.00	<0.50	<0.50	<2.00	<1.00
58	Markland-Surface	Florence	IN	Ohio River	531.5	Surface Grab	2/20/2023	0510	<1.00	<0.50	<0.50	<2.00	<1.00
58	Markland-Mid Depth	Florence	IN	Ohio River	531.5	Surface Grab	2/20/2023	0105	<1.00	<0.50	<0.50	<2.00	<1.00
58	Markland-Mid Depth	Florence	IN	Ohio River	531.5	Surface Grab	2/20/2023	0305	<1.00	<0.50	<0.50	<2.00	<1.00
58	Markland-Mid Depth	Florence	IN	Ohio River	531.5	Surface Grab	2/20/2023	0505	<1.00	<0.50	<0.50	<2.00	<1.00
58	Markland-Bottom	Florence	IN	Ohio River	531.5	Surface Grab	2/20/2023	0100	<1.00	<0.50	<0.50	<2.00	<1.00
58	Markland-Bottom	Florence	IN	Ohio River	531.5	Surface Grab	2/20/2023	0300	<1.00	<0.50	<0.50	<2.00	<1.00
58	Markland-Bottom	Florence	IN	Ohio River	531.5	Surface Grab	2/20/2023	0500	<1.00	<0.50	<0.50	<2.00	<1.00
59	Cannelton Lock and Dam-Surface	Cannelton	IN	Ohio River	720.7	Surface Grab	2/21/2023	1657	<1.00	<0.50	<0.50	<2.00	<1.00
59	Cannelton Lock and Dam-Depth	Cannelton	IN	Ohio River	720.7	Surface Grab	2/21/2023	1657	<1.00	<0.50	<0.50	<2.00	<1.00
59	Cannelton Lock and Dam-Surface	Cannelton	IN	Ohio River	720.7	Surface Grab	2/21/2023	1858	<1.00	<0.50	<0.50	<2.00	<1.00
59	Cannelton Lock and Dam-Surface	Cannelton	IN	Ohio River	720.7	Surface Grab	2/21/2023	2105	<1.00	<0.50	<0.50	<2.00	<1.00
59	Cannelton Lock and Dam-Surface	Cannelton	IN	Ohio River	720.7	Surface Grab	2/21/2023	2256	<1.00	<0.50	<0.50	<2.00	<1.00
59	Cannelton Lock and Dam-Surface	Cannelton	IN	Ohio River	720.7	Surface Grab	2/22/2023	0053	<1.00	<0.50	<0.50	<2.00	<1.00
59	Cannelton Lock and Dam-Surface	Cannelton	IN	Ohio River	720.7	Surface Grab	2/22/2023	0317	<1.00	<0.50	<0.50	<2.00	<1.00
59	Cannelton Lock and Dam-Surface	Cannelton	IN	Ohio River	720.7	Surface Grab	2/22/2023	0455	<1.00	<0.50	<0.50	<2.00	<1.00
60	Leslie Run	East Palestine	OH	Leslie Run	1.7	Surface Grab	2/23/2023	0830	3.22	<0.50	<0.50	27.6	17.1
61	North Fork Little Beaver Creek	Calcutta	OH	North Fork Little Beaver	0.1	Surface Grab	2/23/2023	0900	<1.00	<0.50	<0.50	3.31	1.40
1	Grimms Bridge	East Liverpool	OH	Little Beaver Creek	3.0	Surface Grab	2/23/2023	0925	<1.00	<0.50	<0.50	2.36	<1.00
2	Lock 57 Park	Ohioville	PA	Little Beaver Creek	0.2	Surface Grab	2/23/2023	0940	<1.00	<0.50	<0.50	2.44	<1.00
3	East Liverpool	East Liverpool	OH	Ohio River	40.2	Intake: 10 ft	2/23/2023	1035	<1.00	<0.50	<0.50	<2.00	<1.00
4	Buckeye	Wellsville	OH	Ohio River	47.1	Intake: N/A	2/23/2023	1110	<1.00	<0.50	<0.50	<2.00	<1.00
5	Toronto	Toronto	OH	Ohio River	59.2	Intake: 19 ft	2/23/2023	1150	<1.00	<0.50	<0.50	<2.00	<1.00
6	Steubenville	Steubenville	OH	Ohio River	65.3	Intake: 18 ft	2/23/2023	1225	<1.00	<0.50	<0.50	<2.00	<1.00
62	Belleville Lock & Dam	Reedsville	OH	Ohio River	203.9	Surface Grab	3/6/2023	1330	<1.00	<0.50	<0.50	<2.00	<1.00
63	RC Byrd Lock & Dam	Gallipolis Ferry	WV	Ohio River	279.2	Surface Grab	3/6/2023	1100	<1.00	<0.50	<0.50	<2.00	<1.00
64	Smithland Lock & Dam	Brookport	IL	Ohio River	918.5	Surface Grab	3/6/2023	1530	<1.00	<0.50	<0.50	<2.00	<1.00
65	Olmsted Lock & Dam	Olmsted	IL	Ohio River	964.6	Surface Grab	3/6/2023	1330	<1.00	<0.50	<0.50	<2.00	<1.00
7	Pike Island Lock & Dam	Wheeling	WV	Ohio River	84.2	Surface Grab	3/7/2023	1450	<1.00	<0.50	<0.50	<2.00	<1.00

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based off derivation worksheet

Analyte	Screen Value, ppb	Source
n-Butyl acrylate	560	ATSDR Provisional Health Guidance Value (HGV)
2-ethylhexyl acrylate	500	ATSDR Provisional Health Guidance Value (HGV)
2-ethyl hexanol	200	ATSDR Provisional Health Guidance Value (HGV)

Preliminary Data from East Palestine (Ohio) Train Derailment for Volatile Organics

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Samples collected by Ohio River Valley Water Sanitation Commission (ORSANCO); Analyzed by Greater Cincinnati Water Works (GCWW)

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Ref	Site Description	City	State	River	Stream Mile Point	Sample Depth	Date	Time	n-Butyl Acrylate (ppb)	other VOCs (ppb)	Vinyl Chloride (ppb)	2-Ethyl Hexanol (ppb)	2-Ethylhexyl acrylate (ppb)
66	Hannibal Lock & Dam	Hannibal	OH	Ohio River	126.4	Surface Grab	3/7/2023	1220	<1.00	<0.50	<0.50	<2.00	<1.00
67	Willow Island Lock & Dam	Newport	OH	Ohio River	161.7	Surface Grab	3/7/2023	1030	<1.00	<0.50	<0.50	<2.00	<1.00
68	Newburgh Lock & Dam	Newburgh	IN	Ohio River	776.1	Surface Grab	3/7/2023	1200	<1.00	<0.50	<0.50	<2.00	<1.00
2	Lock 57 Park	Ohioville	PA	Little Beaver Creek	0.2	Surface Grab	3/8/2023	1415	<1.00	<0.50	<0.50	<2.00	<1.00
69	New Cumberland Lock & Dam	Stratton	OH	Ohio River	54.4	Surface Grab	3/8/2023	0930	<1.00	<0.50	<0.50	<2.00	<1.00
4	Buckeye	Wellsville	OH	Ohio River	47.1	Intake: N/A	3/13/2023	1600	<1.00	<0.50	<0.50	<2.00	<1.00
3	East Liverpool	East Liverpool	OH	Ohio River	40.2	Intake: 10 ft	3/14/2023	1145	<1.00	<0.50	<0.50	<2.00	<1.00
70	Ashland	Ashland	KY	Ohio River	319.7	Surface Grab	3/14/2023	1239	<1.00	<0.50	<0.50	<2.00	<1.00
71	Cincinnati	Cincinnati	OH	Ohio River	462.8	Intake: 27ft	3/14/2023	1415	<1.00	<0.50	<0.50	<2.00	<1.00
72	Paducah	Paducah	KY	Ohio River	935.5	Intake: 15ft	3/16/2023	1430	<1.00	<0.50	<0.50	<2.00	<1.00
73	West View	Baden	PA	Ohio River	20.1	Intake: N/A	3/20/2023	945	<1.00	<0.50	<0.50	<2.00	<1.00
4	Buckeye	Wellsville	OH	Ohio River	47.1	Intake: N/A	3/20/2023	1300	<1.00	<0.50	<0.50	<2.00	<1.00
74	Henderson	Cincinnati	OH	Ohio River	462.8	Intake: 27ft	3/20/2023	1330	<1.00	<0.50	<0.50	<2.00	<1.00
72	Paducah	Paducah	KY	Ohio River	935.5	Intake: 15ft	3/20/2023	1327	<1.00	<0.50	<0.50	<2.00	<1.00
3	East Liverpool	East Liverpool	OH	Ohio River	40.2	Intake: 10 ft	3/21/2023	1200	<1.00	<0.50	<0.50	<2.00	<1.00
73	West View	Baden	PA	Ohio River	20.1	Intake: N/A	3/27/2023	905	<1.00	<0.50	<0.50	<2.00	<1.00
3	East Liverpool	East Liverpool	OH	Ohio River	40.2	Intake: 10 ft	3/27/2023	1200	<1.00	<0.50	<0.50	<2.00	<1.00
4	Buckeye	Wellsville	OH	Ohio River	47.1	Intake: N/A	3/27/2023	1320	<1.00	<0.50	<0.50	<2.00	<1.00
70	Ashland	Ashland	KY	Ohio River	319.7	Surface Grab	3/27/2023	1048	<1.00	<0.50	<0.50	<2.00	<1.00
74	Henderson	Cincinnati	OH	Ohio River	462.8	Intake: 27ft	3/27/2023	849	<1.00	<0.50	<0.50	<2.00	<1.00
72	Paducah	Paducah	KY	Ohio River	935.5	Intake: 15ft	3/28/2023	755	<1.00	<0.50	<0.50	<2.00	<1.00
73	West View	Baden	PA	Ohio River	20.1	Intake: N/A	4/3/2023	945	<1.00	<0.50	<0.50	<2.00	<1.00
4	Buckeye	Wellsville	OH	Ohio River	47.1	Intake: N/A	4/3/2023	1450	<1.00	<0.50	<0.50	<2.00	<1.00
74	Henderson	Cincinnati	OH	Ohio River	462.8	Intake: 27ft	4/3/2023	956	<1.00	<0.50	<0.50	<2.00	<1.00
72	Paducah	Paducah	KY	Ohio River	935.5	Intake: 15ft	4/3/2023	930	<1.00	<0.50	<0.50	<2.00	<1.00
3	East Liverpool	East Liverpool	OH	Ohio River	40.2	Intake: 10 ft	4/4/2023	1215	<1.00	<0.50	<0.50	<2.00	<1.00
70	Ashland	Ashland	KY	Ohio River	319.7	Surface Grab	4/4/2023	840	<1.00	<0.50	<0.50	<2.00	<1.00
73	West View	Baden	PA	Ohio River	20.1	Intake: N/A	4/10/2023	935	<1.00	<0.50	<0.50	<2.00	<1.00
3	East Liverpool	East Liverpool	OH	Ohio River	40.2	Intake: 10 ft	4/10/2023	1230	<1.00	<0.50	<0.50	<2.00	<1.00
4	Buckeye	Wellsville	OH	Ohio River	47.1	Intake: N/A	4/10/2023	1500	<1.00	<0.50	<0.50	<2.00	<1.00
74	Henderson	Cincinnati	OH	Ohio River	462.8	Intake: 27ft	4/10/2023	844	<1.00	<0.50	<0.50	<2.00	<1.00
72	Paducah	Paducah	KY	Ohio River	935.5	Intake: 15ft	4/10/2023	740	<1.00	<0.50	<0.50	<2.00	<1.00
73	West View	Baden	PA	Ohio River	20.1	Intake: N/A	4/17/2023	1230	<1.00	<0.50	<0.50	<2.00	<1.00
4	Buckeye	Wellsville	OH	Ohio River	47.1	Intake: N/A	4/17/2023	1300	<1.00	<0.50	<0.50	<2.00	<1.00
74	Henderson	Cincinnati	OH	Ohio River	462.8	Intake: 27ft	4/17/2023	909	<1.00	<0.50	<0.50	<2.00	<1.00

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based off derivation worksheet

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n-Butyl acrylate	560	ATSDR Provisional Health Guidance Value (HGV)
2-ethylhexyl acrylate	500	ATSDR Provisional Health Guidance Value (HGV)
2-ethyl hexanol	200	ATSDR Provisional Health Guidance Value (HGV)

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Ref	Site Description	City	State	River	Stream Mile Point	Sample Depth	Date	Time	n-Butyl Acrylate (ppb)	other VOCs (ppb)	Vinyl Chloride (ppb)	2-Ethyl Hexanol (ppb)	2-Ethylhexyl acrylate (ppb)
72	Paducah	Paducah	KY	Ohio River	935.5	Intake: 15ft	4/17/2023	900	<1.00	<0.50	<0.50	<2.00	<1.00
3	East Liverpool	East Liverpool	OH	Ohio River	40.2	Intake: 10 ft	4/18/2023	1315	<1.00	<0.50	<0.50	<2.00	<1.00
73	West View	Baden	PA	Ohio River	20.1	Intake: N/A	4/24/2023	1005	<1.00	<0.50	<0.50	<2.00	<1.00
4	Buckeye	Wellsville	OH	Ohio River	47.1	Intake: N/A	4/24/2023	1150	<1.00	<0.50	<0.50	<2.00	<1.00
74	Henderson	Cincinnati	OH	Ohio River	462.8	Intake: 27ft	4/24/2023	814	<1.00	<0.50	<0.50	<2.00	<1.00
72	Paducah	Paducah	KY	Ohio River	935.5	Intake: 15ft	4/24/2023	730	<1.00	<0.50	<0.50	<2.00	<1.00
3	East Liverpool	East Liverpool	OH	Ohio River	40.2	Intake: 10 ft	4/25/2023	1045	<1.00	<0.50	<0.50	<2.00	<1.00
70	Ashland	Ashland	KY	Ohio River	319.7	Surface Grab	4/25/2023	1525	<1.00	<0.50	<0.50	<2.00	<1.00

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based off derivation worksheet		
Analyte	Screen Value, ppb	Source
n-Butyl acrylate	560	ATSDR Provisional Health Guidance Value (HGV)
2-ethylhexyl acrylate	500	ATSDR Provisional Health Guidance Value (HGV)
2-ethyl hexanol	200	ATSDR Provisional Health Guidance Value (HGV)