Phase 1A Remedial Action
Troy (Water Street) Site- Area 2
Troy, New York

Total Common Fill Imported/Month	
August 2022	6798
September 2022	4052
Total Cubic Yards Delivered	**10850**

Date	Material	Cubic Yards Delivered	Transporter
8/1/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/1/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/1/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/1/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/1/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/1/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/1/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/1/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/1/2022	Common Fill	20	R.J. Valente Gravel, Inc
8/1/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/1/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/1/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/1/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/1/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/1/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/1/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/1/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/1/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/2/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/2/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/2/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/2/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/2/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/2/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/2/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/2/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/2/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/2/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/2/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/2/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/2/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/2/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/2/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/2/2022	Common Fill	30	R.J. Valente Gravel, Inc
8/2/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/2/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/2/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/2/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/2/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/2/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/2/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/2/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/2/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/3/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/3/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/3/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/3/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/3/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/3/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/3/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/3/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/3/2022	Common Fill	20	R.J. Valente Gravel, Inc
8/3/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/3/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/3/2022	Common Fill	18	R.J. Valente Gravel, Inc

Note 1: Highlighted Common Fill deliveries do not have associated weight tickets.

Phase 1A Remedial Action
Troy (Water Street) Site- Area 2
Troy, New York

Total Common Fill Imported/Month	
August 2022	6798
September 2022	4052
Total Cubic Yards Delivered	**10850**

Date	Material	Cubic Yards Delivered	Transporter
8/3/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/3/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/3/2022	Common Fill	20	R.J. Valente Gravel, Inc
8/3/2022	Common Fill	20	R.J. Valente Gravel, Inc
8/3/2022	Common Fill	20	R.J. Valente Gravel, Inc
8/3/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/3/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/3/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/3/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/3/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/3/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/3/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/3/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/3/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/3/2022	Common Fill	20	R.J. Valente Gravel, Inc
8/3/2022	Common Fill	20	R.J. Valente Gravel, Inc
8/3/2022	Common Fill	108	R.J. Valente Gravel, Inc
8/4/2022	Common Fill	20	R.J. Valente Gravel, Inc
8/4/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/4/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/4/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/4/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/4/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/4/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/4/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/4/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/4/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/4/2022	Common Fill	20	R.J. Valente Gravel, Inc
8/4/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/4/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/4/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/4/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/4/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/4/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/4/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/4/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/4/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/5/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/5/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/5/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/5/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/5/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/5/2022	Common Fill	20	R.J. Valente Gravel, Inc
8/5/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/5/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/5/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/5/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/5/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/5/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/5/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/5/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/5/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/5/2022	Common Fill	36	R.J. Valente Gravel, Inc
8/8/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/8/2022	Common Fill	18	R.J. Valente Gravel, Inc

Phase 1A Remedial Action
Troy (Water Street) Site- Area 2
Troy, New York

Total Common Fill Imported/Month	
August 2022	6798
September 2022	4052
Total Cubic Yards Delivered	**10850**

Date	Material	Cubic Yards Delivered	Transporter
8/8/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/8/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/8/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/8/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/8/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/8/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/8/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/8/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/8/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/8/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/8/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/8/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/8/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/8/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/9/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/9/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/9/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/9/2022	Common Fill	20	R.J. Valente Gravel, Inc
8/9/2022	Common Fill	20	R.J. Valente Gravel, Inc
8/9/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/9/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/9/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/9/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/9/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/9/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/9/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/9/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/9/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/9/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/10/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/10/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/10/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/10/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/10/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/10/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/10/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/10/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/10/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/10/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/10/2022	Common Fill	90	R.J. Valente Gravel, Inc
8/10/2022	Common Fill	126	R.J. Valente Gravel, Inc
8/11/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/11/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/11/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/11/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/11/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/11/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/11/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/11/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/11/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/11/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/11/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/12/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/12/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/12/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/12/2022	Common Fill	26	R.J. Valente Gravel, Inc

Phase 1A Remedial Action
Troy (Water Street) Site- Area 2
Troy, New York

Total Common Fill Imported/Month	
August 2022	6798
September 2022	4052
Total Cubic Yards Delivered	**10850**

Date	Material	Cubic Yards Delivered	Transporter
8/12/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/12/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/12/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/12/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/12/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/12/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/12/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/12/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/12/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/12/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/12/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/12/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/12/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/12/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/12/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/12/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/12/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/12/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/12/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/12/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/12/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/13/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/13/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/13/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/13/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/13/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/13/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/13/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/13/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/13/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/13/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/13/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/13/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/13/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/13/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/13/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/13/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/13/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/13/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/13/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/13/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/13/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/13/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/13/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/13/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/13/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/13/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/13/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/13/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/15/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/15/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/15/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/15/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/15/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/15/2022	Common Fill	26	R.J. Valente Gravel, Inc

Phase 1A Remedial Action
Troy (Water Street) Site- Area 2
Troy, New York

LAND Remediation, Inc.
an environmental services company

Total Common Fill Imported/Month	
August 2022	6798
September 2022	4052
Total Cubic Yards Delivered	**10850**

Date	Material	Cubic Yards Delivered	Transporter
8/15/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/15/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/15/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/15/2022	Common Fill	72	R.J. Valente Gravel, Inc
8/15/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/16/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/16/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/16/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/16/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/16/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/16/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/16/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/16/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/16/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/16/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/16/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/16/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/16/2022	Common Fill	20	R.J. Valente Gravel, Inc
8/16/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/16/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/17/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/17/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/17/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/17/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/17/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/17/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/17/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/17/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/17/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/17/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/17/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/17/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/17/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/17/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/17/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/17/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/17/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/18/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/18/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/18/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/18/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/18/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/18/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/18/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/18/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/18/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/18/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/18/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/18/2022	Common Fill	108	R.J. Valente Gravel, Inc
8/19/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/19/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/19/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/19/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/19/2022	Common Fill	26	R.J. Valente Gravel, Inc

Phase 1A Remedial Action
Troy (Water Street) Site- Area 2
Troy, New York

Total Common Fill Imported/Month	
August 2022	6798
September 2022	4052
Total Cubic Yards Delivered	**10850**

Date	Material	Cubic Yards Delivered	Transporter
8/19/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/19/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/19/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/19/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/19/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/19/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/19/2022	Common Fill	26	R.J. Valente Gravel, Inc
8/19/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/31/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/31/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/31/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/31/2022	Common Fill	18	R.J. Valente Gravel, Inc
8/31/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/1/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/1/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/1/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/1/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/1/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/1/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/1/2022	Common Fill	26	R.J. Valente Gravel, Inc
9/1/2022	Common Fill	26	R.J. Valente Gravel, Inc
9/1/2022	Common Fill	26	R.J. Valente Gravel, Inc
9/1/2022	Common Fill	26	R.J. Valente Gravel, Inc
9/1/2022	Common Fill	26	R.J. Valente Gravel, Inc
9/1/2022	Common Fill	26	R.J. Valente Gravel, Inc
9/1/2022	Common Fill	26	R.J. Valente Gravel, Inc
9/1/2022	Common Fill	26	R.J. Valente Gravel, Inc
9/1/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/1/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/1/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/1/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/1/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/1/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/1/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/1/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/1/2022	Common Fill	26	R.J. Valente Gravel, Inc
9/1/2022	Common Fill	26	R.J. Valente Gravel, Inc
9/1/2022	Common Fill	26	R.J. Valente Gravel, Inc
9/1/2022	Common Fill	26	R.J. Valente Gravel, Inc
9/1/2022	Common Fill	26	R.J. Valente Gravel, Inc
9/1/2022	Common Fill	26	R.J. Valente Gravel, Inc
9/1/2022	Common Fill	26	R.J. Valente Gravel, Inc
9/1/2022	Common Fill	26	R.J. Valente Gravel, Inc
9/1/2022	Common Fill	26	R.J. Valente Gravel, Inc
9/1/2022	Common Fill	26	R.J. Valente Gravel, Inc
9/1/2022	Common Fill	20	R.J. Valente Gravel, Inc
9/1/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/1/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/1/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/1/2022	Common Fill	26	R.J. Valente Gravel, Inc
9/1/2022	Common Fill	26	R.J. Valente Gravel, Inc
9/1/2022	Common Fill	26	R.J. Valente Gravel, Inc
9/1/2022	Common Fill	26	R.J. Valente Gravel, Inc
9/1/2022	Common Fill	26	R.J. Valente Gravel, Inc
9/1/2022	Common Fill	26	R.J. Valente Gravel, Inc

Phase 1A Remedial Action
Troy (Water Street) Site- Area 2
Troy, New York

Total Common Fill Imported/Month	
August 2022	6798
September 2022	4052
Total Cubic Yards Delivered	**10850**

Date	Material	Cubic Yards Delivered	Transporter
9/1/2022	Common Fill	26	R.J. Valente Gravel, Inc
9/1/2022	Common Fill	26	R.J. Valente Gravel, Inc
9/2/2022	Common Fill	26	R.J. Valente Gravel, Inc
9/2/2022	Common Fill	26	R.J. Valente Gravel, Inc
9/2/2022	Common Fill	26	R.J. Valente Gravel, Inc
9/2/2022	Common Fill	26	R.J. Valente Gravel, Inc
9/2/2022	Common Fill	26	R.J. Valente Gravel, Inc
9/2/2022	Common Fill	26	R.J. Valente Gravel, Inc
9/2/2022	Common Fill	26	R.J. Valente Gravel, Inc
9/2/2022	Common Fill	20	R.J. Valente Gravel, Inc
9/2/2022	Common Fill	20	R.J. Valente Gravel, Inc
9/2/2022	Common Fill	20	R.J. Valente Gravel, Inc
9/2/2022	Common Fill	20	R.J. Valente Gravel, Inc
9/2/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/2/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/2/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/2/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/2/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/2/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/2/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/2/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/2/2022	Common Fill	26	R.J. Valente Gravel, Inc
9/2/2022	Common Fill	26	R.J. Valente Gravel, Inc
9/2/2022	Common Fill	26	R.J. Valente Gravel, Inc
9/2/2022	Common Fill	26	R.J. Valente Gravel, Inc
9/2/2022	Common Fill	26	R.J. Valente Gravel, Inc
9/2/2022	Common Fill	26	R.J. Valente Gravel, Inc
9/2/2022	Common Fill	26	R.J. Valente Gravel, Inc
9/2/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/2/2022	Common Fill	26	R.J. Valente Gravel, Inc
9/2/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/2/2022	Common Fill	26	R.J. Valente Gravel, Inc
9/2/2022	Common Fill	36	R.J. Valente Gravel, Inc
9/2/2022	Common Fill	26	R.J. Valente Gravel, Inc
9/2/2022	Common Fill	26	R.J. Valente Gravel, Inc
9/2/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/2/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/6/2022	Common Fill	20	R.J. Valente Gravel, Inc
9/6/2022	Common Fill	20	R.J. Valente Gravel, Inc
9/6/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/6/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/6/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/6/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/6/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/6/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/6/2022	Common Fill	26	R.J. Valente Gravel, Inc
9/6/2022	Common Fill	26	R.J. Valente Gravel, Inc
9/6/2022	Common Fill	26	R.J. Valente Gravel, Inc
9/6/2022	Common Fill	26	R.J. Valente Gravel, Inc
9/6/2022	Common Fill	26	R.J. Valente Gravel, Inc
9/6/2022	Common Fill	26	R.J. Valente Gravel, Inc
9/6/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/6/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/6/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/6/2022	Common Fill	18	R.J. Valente Gravel, Inc

Phase 1A Remedial Action
Troy (Water Street) Site- Area 2
Troy, New York

Total Common Fill Imported/Month	
August 2022	6798
September 2022	4052
Total Cubic Yards Delivered	**10850**

Date	Material	Cubic Yards Delivered	Transporter
9/6/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/6/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/6/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/6/2022	Common Fill	26	R.J. Valente Gravel, Inc
9/6/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/6/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/6/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/6/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/6/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/6/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/6/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/6/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/6/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/6/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/6/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/6/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/6/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/6/2022	Common Fill	20	R.J. Valente Gravel, Inc
9/6/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/6/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/6/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/6/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/6/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/6/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/6/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/6/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/6/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/6/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/6/2022	Common Fill	108	R.J. Valente Gravel, Inc
9/6/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/6/2022	Common Fill	54	R.J. Valente Gravel, Inc
9/6/2022	Common Fill	26	R.J. Valente Gravel, Inc
9/7/2022	Common Fill	26	R.J. Valente Gravel, Inc
9/7/2022	Common Fill	26	R.J. Valente Gravel, Inc
9/7/2022	Common Fill	26	R.J. Valente Gravel, Inc
9/7/2022	Common Fill	26	R.J. Valente Gravel, Inc
9/7/2022	Common Fill	26	R.J. Valente Gravel, Inc
9/7/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/7/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/7/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/7/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/7/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/7/2022	Common Fill	26	R.J. Valente Gravel, Inc
9/7/2022	Common Fill	26	R.J. Valente Gravel, Inc
9/7/2022	Common Fill	26	R.J. Valente Gravel, Inc
9/7/2022	Common Fill	26	R.J. Valente Gravel, Inc
9/7/2022	Common Fill	26	R.J. Valente Gravel, Inc
9/7/2022	Common Fill	26	R.J. Valente Gravel, Inc
9/7/2022	Common Fill	20	R.J. Valente Gravel, Inc
9/7/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/7/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/7/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/7/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/7/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/7/2022	Common Fill	18	R.J. Valente Gravel, Inc

Phase 1A Remedial Action
Troy (Water Street) Site- Area 2
Troy, New York

Total Common Fill Imported/Month	
August 2022	6798
September 2022	4052
Total Cubic Yards Delivered	**10850**

Date	Material	Cubic Yards Delivered	Transporter
9/7/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/7/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/7/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/7/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/7/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/7/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/7/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/7/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/7/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/7/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/7/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/7/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/7/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/7/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/7/2022	Common Fill	26	R.J. Valente Gravel, Inc
9/7/2022	Common Fill	26	R.J. Valente Gravel, Inc
9/7/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/7/2022	Common Fill	18	R.J. Valente Gravel, Inc
9/7/2022	Common Fill	20	R.J. Valente Gravel, Inc
9/7/2022	Common Fill	26	R.J. Valente Gravel, Inc
9/7/2022	Common Fill	26	R.J. Valente Gravel, Inc
9/7/2022	Common Fill	26	R.J. Valente Gravel, Inc
9/7/2022	Common Fill	26	R.J. Valente Gravel, Inc
9/7/2022	Common Fill	26	R.J. Valente Gravel, Inc
9/7/2022	Common Fill	26	R.J. Valente Gravel, Inc
9/7/2022	Common Fill	26	R.J. Valente Gravel, Inc
9/7/2022	Common Fill	90	R.J. Valente Gravel, Inc
9/7/2022	Common Fill	18	R.J. Valente Gravel, Inc
	Total Common Fill	10850	

Phase 1A Remedial Action
Troy (Water Street) Site- Area 2
Troy, New York

#2 Crushed Stone Imported/Month	
May 2022	232.97
June 2022	85.46
November 2022	39.14
Total #2 Stone Delivered	**357.57**
#3 Crushed Stone Imported/Month	
May 2022	86.01
June 2022	20.76
July 2022	308.1
August 2022	62.11
September 2022	101.55
Total #3 Stone Delivered	**578.53**

Date	Material	Tons Delivered	Transporter
5/13/2022	#2 stone	21.17	R.J. Valente Gravel, Inc
5/13/2022	#2 stone	21.39	R.J. Valente Gravel, Inc
5/13/2022	#2 stone	20.97	R.J. Valente Gravel, Inc
5/13/2022	#2 stone	21.14	R.J. Valente Gravel, Inc
5/13/2022	#2 stone	21.52	R.J. Valente Gravel, Inc
5/13/2022	#2 stone	20.39	R.J. Valente Gravel, Inc
5/13/2022	#2 stone	20.82	R.J. Valente Gravel, Inc
5/13/2022	#3 stone	21.24	R.J. Valente Gravel, Inc
5/16/2022	#2 stone	22.45	R.J. Valente Gravel, Inc
5/16/2022	#2 stone	20.94	R.J. Valente Gravel, Inc
5/16/2022	#2 stone	20.93	R.J. Valente Gravel, Inc
5/16/2022	#2 stone	21.25	R.J. Valente Gravel, Inc
5/17/2022	#3 stone	21.64	R.J. Valente Gravel, Inc
5/17/2022	#3 stone	20.99	R.J. Valente Gravel, Inc
5/17/2022	#3 stone	22.14	R.J. Valente Gravel, Inc
6/2/2022	#2 stone	21.23	R.J. Valente Gravel, Inc
6/2/2022	#2 stone	20.94	R.J. Valente Gravel, Inc
6/2/2022	#2 stone	22.16	R.J. Valente Gravel, Inc
6/2/2022	#2 stone	21.13	R.J. Valente Gravel, Inc
6/2/2022	#3 stone	20.76	R.J. Valente Gravel, Inc
7/5/2022	#3 stone	37.39	R.J. Valente Gravel, Inc
7/5/2022	#3 stone	40.56	R.J. Valente Gravel, Inc
7/6/2022	#3 stone	37.12	R.J. Valente Gravel, Inc
7/6/2022	#3 stone	37.04	R.J. Valente Gravel, Inc
7/6/2022	#3 stone	36.95	R.J. Valente Gravel, Inc
7/6/2022	#3 stone	36.38	R.J. Valente Gravel, Inc
7/11/2022	#3 stone	20.8	R.J. Valente Gravel, Inc
7/11/2022	#3 stone	20.46	R.J. Valente Gravel, Inc
7/25/2022	#3 stone	21.16	R.J. Valente Gravel, Inc
7/25/2022	#3 stone	20.24	R.J. Valente Gravel, Inc
8/4/2022	#3 stone	20.96	R.J. Valente Gravel, Inc
8/4/2022	#3 stone	20.63	R.J. Valente Gravel, Inc
8/24/2022	#3 stone	20.52	R.J. Valente Gravel, Inc
9/8/2022	#3 stone	20.77	R.J. Valente Gravel, Inc
9/15/2022	#3 stone	40.84	R.J. Valente Gravel, Inc
9/15/2022	#3 stone	39.94	R.J. Valente Gravel, Inc
11/1/2022	#2 stone	39.14	R.J. Valente Gravel, Inc

Phase 1A Remedial Action
Troy (Water Street) Site- Area 2
Troy, New York

Total Type II Subbase Imported/Month	
May 2022	1646.85
June 2022	482.35
September 2022	1709.1
October 2022	1748.1
Total Tonnage Delivered	**5586.4**

Load #	Date	Material	Tons Delivered	Transporter
1	5/16/2022	Type II Subbase	22.66	R.J. Valente Gravel, Inc
2	5/16/2022	Type II Subbase	21.78	R.J. Valente Gravel, Inc
3	5/17/2022	Type II Subbase	36.19	R.J. Valente Gravel, Inc
4	5/17/2022	Type II Subbase	36.36	R.J. Valente Gravel, Inc
5	5/17/2022	Type II Subbase	38.29	R.J. Valente Gravel, Inc
6	5/17/2022	Type II Subbase	22.86	R.J. Valente Gravel, Inc
7	5/17/2022	Type II Subbase	36.8	R.J. Valente Gravel, Inc
8	5/17/2022	Type II Subbase	22.5	R.J. Valente Gravel, Inc
9	5/17/2022	Type II Subbase	37.25	R.J. Valente Gravel, Inc
10	5/17/2022	Type II Subbase	21.67	R.J. Valente Gravel, Inc
11	5/17/2022	Type II Subbase	37.18	R.J. Valente Gravel, Inc
12	5/17/2022	Type II Subbase	21.46	R.J. Valente Gravel, Inc
13	5/17/2022	Type II Subbase	38.77	R.J. Valente Gravel, Inc
14	5/17/2022	Type II Subbase	37.18	R.J. Valente Gravel, Inc
15	5/17/2022	Type II Subbase	37.05	R.J. Valente Gravel, Inc
16	5/17/2022	Type II Subbase	37.45	R.J. Valente Gravel, Inc
17	5/17/2022	Type II Subbase	36.89	R.J. Valente Gravel, Inc
18	5/18/2022	Type II Subbase	37.37	R.J. Valente Gravel, Inc
19	5/19/2022	Type II Subbase	37.55	R.J. Valente Gravel, Inc
20	5/19/2022	Type II Subbase	22.61	R.J. Valente Gravel, Inc
21	5/19/2022	Type II Subbase	21.83	R.J. Valente Gravel, Inc
22	5/19/2022	Type II Subbase	35.25	R.J. Valente Gravel, Inc
23	5/19/2022	Type II Subbase	21.3	R.J. Valente Gravel, Inc
24	5/19/2022	Type II Subbase	23.84	R.J. Valente Gravel, Inc
25	5/19/2022	Type II Subbase	35.35	R.J. Valente Gravel, Inc
26	5/19/2022	Type II Subbase	20.93	R.J. Valente Gravel, Inc
27	5/19/2022	Type II Subbase	23.86	R.J. Valente Gravel, Inc
28	5/19/2022	Type II Subbase	35.96	R.J. Valente Gravel, Inc
29	5/19/2022	Type II Subbase	22.17	R.J. Valente Gravel, Inc
30	5/19/2022	Type II Subbase	21.84	R.J. Valente Gravel, Inc
31	5/19/2022	Type II Subbase	34.99	R.J. Valente Gravel, Inc
32	5/19/2022	Type II Subbase	21.77	R.J. Valente Gravel, Inc
33	5/19/2022	Type II Subbase	35.94	R.J. Valente Gravel, Inc
34	5/19/2022	Type II Subbase	35.18	R.J. Valente Gravel, Inc
35	5/19/2022	Type II Subbase	22.17	R.J. Valente Gravel, Inc
36	5/19/2022	Type II Subbase	36.17	R.J. Valente Gravel, Inc
37	5/19/2022	Type II Subbase	35.52	R.J. Valente Gravel, Inc
38	5/24/2022	Type II Subbase	20.62	R.J. Valente Gravel, Inc
39	5/24/2022	Type II Subbase	21.36	R.J. Valente Gravel, Inc

Phase 1A Remedial Action
Troy (Water Street) Site- Area 2
Troy, New York

Total Type II Subbase Imported/Month	
May 2022	1646.85
June 2022	482.35
September 2022	1709.1
October 2022	1748.1
Total Tonnage Delivered	**5586.4**

Load #	Date	Material	Tons Delivered	Transporter
40	5/24/2022	Type II Subbase	22.34	R.J. Valente Gravel, Inc
41	5/24/2022	Type II Subbase	21.65	R.J. Valente Gravel, Inc
42	5/24/2022	Type II Subbase	22.01	R.J. Valente Gravel, Inc
43	5/24/2022	Type II Subbase	22.07	R.J. Valente Gravel, Inc
44	5/24/2022	Type II Subbase	21.32	R.J. Valente Gravel, Inc
45	5/24/2022	Type II Subbase	21.74	R.J. Valente Gravel, Inc
46	5/24/2022	Type II Subbase	22.42	R.J. Valente Gravel, Inc
47	5/24/2022	Type II Subbase	21.24	R.J. Valente Gravel, Inc
48	5/24/2022	Type II Subbase	21.18	R.J. Valente Gravel, Inc
49	5/24/2022	Type II Subbase	22.27	R.J. Valente Gravel, Inc
50	5/24/2022	Type II Subbase	21	R.J. Valente Gravel, Inc
51	5/24/2022	Type II Subbase	21.11	R.J. Valente Gravel, Inc
52	5/25/2022	Type II Subbase	22.37	R.J. Valente Gravel, Inc
53	5/25/2022	Type II Subbase	22.3	R.J. Valente Gravel, Inc
54	5/25/2022	Type II Subbase	21.24	R.J. Valente Gravel, Inc
55	5/25/2022	Type II Subbase	21.45	R.J. Valente Gravel, Inc
56	5/31/2022	Type II Subbase	22.42	R.J. Valente Gravel, Inc
57	5/31/2022	Type II Subbase	20.51	R.J. Valente Gravel, Inc
58	5/31/2022	Type II Subbase	20.75	R.J. Valente Gravel, Inc
59	5/31/2022	Type II Subbase	20.59	R.J. Valente Gravel, Inc
60	5/31/2022	Type II Subbase	24.89	R.J. Valente Gravel, Inc
61	5/31/2022	Type II Subbase	24.06	R.J. Valente Gravel, Inc
62	6/1/2022	Type II Subbase	21.89	R.J. Valente Gravel, Inc
63	6/2/2022	Type II Subbase	22.61	R.J. Valente Gravel, Inc
64	6/2/2022	Type II Subbase	20.89	R.J. Valente Gravel, Inc
65	6/2/2022	Type II Subbase	21.04	R.J. Valente Gravel, Inc
66	6/2/2022	Type II Subbase	22.51	R.J. Valente Gravel, Inc
67	6/2/2022	Type II Subbase	22.22	R.J. Valente Gravel, Inc
68	6/2/2022	Type II Subbase	22.65	R.J. Valente Gravel, Inc
69	6/2/2022	Type II Subbase	21.52	R.J. Valente Gravel, Inc
70	6/2/2022	Type II Subbase	20.86	R.J. Valente Gravel, Inc
71	6/3/2022	Type II Subbase	21.79	R.J. Valente Gravel, Inc
72	6/3/2022	Type II Subbase	22.02	R.J. Valente Gravel, Inc
73	6/3/2022	Type II Subbase	21.88	R.J. Valente Gravel, Inc
74	6/3/2022	Type II Subbase	21.2	R.J. Valente Gravel, Inc
75	6/3/2022	Type II Subbase	22.84	R.J. Valente Gravel, Inc
76	6/3/2022	Type II Subbase	21.75	R.J. Valente Gravel, Inc
77	6/3/2022	Type II Subbase	21.06	R.J. Valente Gravel, Inc
78	6/7/2022	Type II Subbase	22.55	R.J. Valente Gravel, Inc

Phase 1A Remedial Action
Troy (Water Street) Site- Area 2
Troy, New York

Total Type II Subbase Imported/Month	
May 2022	1646.85
June 2022	482.35
September 2022	1709.1
October 2022	1748.1
Total Tonnage Delivered	**5586.4**

Load #	Date	Material	Tons Delivered	Transporter
79	6/7/2022	Type II Subbase	22.28	R.J. Valente Gravel, Inc
80	6/7/2022	Type II Subbase	22.88	R.J. Valente Gravel, Inc
81	6/7/2022	Type II Subbase	22.01	R.J. Valente Gravel, Inc
82	6/9/2022	Type II Subbase	22.02	R.J. Valente Gravel, Inc
83	6/9/2022	Type II Subbase	21.88	R.J. Valente Gravel, Inc
84	9/9/2022	Type II Subbase	23	R.J. Valente Gravel, Inc
85	9/9/2022	Type II Subbase	22.26	R.J. Valente Gravel, Inc
86	9/9/2022	Type II Subbase	22.32	R.J. Valente Gravel, Inc
87	9/9/2022	Type II Subbase	22.86	R.J. Valente Gravel, Inc
88	9/9/2022	Type II Subbase	21.51	R.J. Valente Gravel, Inc
89	9/9/2022	Type II Subbase	20.15	R.J. Valente Gravel, Inc
90	9/9/2022	Type II Subbase	21.29	R.J. Valente Gravel, Inc
91	9/9/2022	Type II Subbase	20.93	R.J. Valente Gravel, Inc
92	9/9/2022	Type II Subbase	21.29	R.J. Valente Gravel, Inc
93	9/9/2022	Type II Subbase	22.46	R.J. Valente Gravel, Inc
94	9/12/2022	Type II Subbase	39.62	R.J. Valente Gravel, Inc
95	9/12/2022	Type II Subbase	41.93	R.J. Valente Gravel, Inc
96	9/12/2022	Type II Subbase	41.39	R.J. Valente Gravel, Inc
97	9/12/2022	Type II Subbase	37.52	R.J. Valente Gravel, Inc
98	9/12/2022	Type II Subbase	37.36	R.J. Valente Gravel, Inc
99	9/12/2022	Type II Subbase	39.34	R.J. Valente Gravel, Inc
100	9/12/2022	Type II Subbase	38.77	R.J. Valente Gravel, Inc
101	9/12/2022	Type II Subbase	38.04	R.J. Valente Gravel, Inc
102	9/12/2022	Type II Subbase	36.43	R.J. Valente Gravel, Inc
103	9/12/2022	Type II Subbase	39.89	R.J. Valente Gravel, Inc
104	9/12/2022	Type II Subbase	37.82	R.J. Valente Gravel, Inc
105	9/12/2022	Type II Subbase	38.1	R.J. Valente Gravel, Inc
106	9/12/2022	Type II Subbase	39.32	R.J. Valente Gravel, Inc
107	9/12/2022	Type II Subbase	41.25	R.J. Valente Gravel, Inc
108	9/12/2022	Type II Subbase	38.96	R.J. Valente Gravel, Inc
109	9/12/2022	Type II Subbase	38.36	R.J. Valente Gravel, Inc
110	9/12/2022	Type II Subbase	38.58	R.J. Valente Gravel, Inc
111	9/12/2022	Type II Subbase	37.67	R.J. Valente Gravel, Inc
112	9/12/2022	Type II Subbase	40.3	R.J. Valente Gravel, Inc
113	9/12/2022	Type II Subbase	36.26	R.J. Valente Gravel, Inc
114	9/12/2022	Type II Subbase	41.09	R.J. Valente Gravel, Inc
115	9/12/2022	Type II Subbase	37.81	R.J. Valente Gravel, Inc
116	9/12/2022	Type II Subbase	37.31	R.J. Valente Gravel, Inc
117	9/12/2022	Type II Subbase	39.81	R.J. Valente Gravel, Inc

Phase 1A Remedial Action
Troy (Water Street) Site- Area 2
Troy, New York

Total Type II Subbase Imported/Month	
May 2022	1646.85
June 2022	482.35
September 2022	1709.1
October 2022	1748.1
Total Tonnage Delivered	**5586.4**

Load #	Date	Material	Tons Delivered	Transporter
118	9/12/2022	Type II Subbase	38.47	R.J. Valente Gravel, Inc
119	9/12/2022	Type II Subbase	37.85	R.J. Valente Gravel, Inc
120	9/12/2022	Type II Subbase	37.55	R.J. Valente Gravel, Inc
121	9/12/2022	Type II Subbase	39.23	R.J. Valente Gravel, Inc
122	9/12/2022	Type II Subbase	38.67	R.J. Valente Gravel, Inc
123	9/12/2022	Type II Subbase	39.7	R.J. Valente Gravel, Inc
124	9/12/2022	Type II Subbase	37.68	R.J. Valente Gravel, Inc
125	9/22/2022	Type II Subbase	22.29	R.J. Valente Gravel, Inc
126	9/22/2022	Type II Subbase	22.25	R.J. Valente Gravel, Inc
127	9/22/2022	Type II Subbase	22.58	R.J. Valente Gravel, Inc
128	9/22/2022	Type II Subbase	21.83	R.J. Valente Gravel, Inc
129	9/22/2022	Type II Subbase	22.56	R.J. Valente Gravel, Inc
130	9/22/2022	Type II Subbase	22.71	R.J. Valente Gravel, Inc
131	9/22/2022	Type II Subbase	20.77	R.J. Valente Gravel, Inc
132	9/22/2022	Type II Subbase	22.36	R.J. Valente Gravel, Inc
133	9/22/2022	Type II Subbase	22.06	R.J. Valente Gravel, Inc
134	9/22/2022	Type II Subbase	22.62	R.J. Valente Gravel, Inc
135	9/22/2022	Type II Subbase	22.55	R.J. Valente Gravel, Inc
136	9/22/2022	Type II Subbase	22.26	R.J. Valente Gravel, Inc
137	9/22/2022	Type II Subbase	22.11	R.J. Valente Gravel, Inc
138	10/6/2022	Type II Subbase	23.19	R.J. Valente Gravel, Inc
139	10/6/2022	Type II Subbase	22.5	R.J. Valente Gravel, Inc
140	10/6/2022	Type II Subbase	22.53	R.J. Valente Gravel, Inc
141	10/6/2022	Type II Subbase	36.82	R.J. Valente Gravel, Inc
142	10/6/2022	Type II Subbase	37.21	R.J. Valente Gravel, Inc
143	10/6/2022	Type II Subbase	36.55	R.J. Valente Gravel, Inc
144	10/6/2022	Type II Subbase	35.53	R.J. Valente Gravel, Inc
145	10/6/2022	Type II Subbase	36.76	R.J. Valente Gravel, Inc
146	10/6/2022	Type II Subbase	37.32	R.J. Valente Gravel, Inc
147	10/6/2022	Type II Subbase	36.36	R.J. Valente Gravel, Inc
148	10/6/2022	Type II Subbase	38.36	R.J. Valente Gravel, Inc
149	10/6/2022	Type II Subbase	36.83	R.J. Valente Gravel, Inc
150	10/6/2022	Type II Subbase	37.83	R.J. Valente Gravel, Inc
151	10/6/2022	Type II Subbase	36.65	R.J. Valente Gravel, Inc
152	10/6/2022	Type II Subbase	35.98	R.J. Valente Gravel, Inc
153	10/6/2022	Type II Subbase	36.82	R.J. Valente Gravel, Inc
154	10/6/2022	Type II Subbase	37.65	R.J. Valente Gravel, Inc
155	10/6/2022	Type II Subbase	36.14	R.J. Valente Gravel, Inc
156	10/6/2022	Type II Subbase	37.79	R.J. Valente Gravel, Inc

Phase 1A Remedial Action
Troy (Water Street) Site- Area 2
Troy, New York

Total Type II Subbase Imported/Month	
May 2022	1646.85
June 2022	482.35
September 2022	1709.1
October 2022	1748.1
Total Tonnage Delivered	**5586.4**

Load #	Date	Material	Tons Delivered	Transporter
157	10/6/2022	Type II Subbase	37.65	R.J. Valente Gravel, Inc
158	10/7/2022	Type II Subbase	38.05	R.J. Valente Gravel, Inc
159	10/7/2022	Type II Subbase	36.25	R.J. Valente Gravel, Inc
160	10/7/2022	Type II Subbase	36	R.J. Valente Gravel, Inc
161	10/7/2022	Type II Subbase	36.83	R.J. Valente Gravel, Inc
162	10/7/2022	Type II Subbase	36.58	R.J. Valente Gravel, Inc
163	10/7/2022	Type II Subbase	37.26	R.J. Valente Gravel, Inc
164	10/7/2022	Type II Subbase	37.19	R.J. Valente Gravel, Inc
165	10/7/2022	Type II Subbase	37.63	R.J. Valente Gravel, Inc
166	10/7/2022	Type II Subbase	37.03	R.J. Valente Gravel, Inc
167	10/7/2022	Type II Subbase	35.47	R.J. Valente Gravel, Inc
168	10/7/2022	Type II Subbase	35.57	R.J. Valente Gravel, Inc
169	10/7/2022	Type II Subbase	38.36	R.J. Valente Gravel, Inc
170	10/10/2022	Type II Subbase	36.63	R.J. Valente Gravel, Inc
171	10/10/2022	Type II Subbase	35.52	R.J. Valente Gravel, Inc
172	10/10/2022	Type II Subbase	35.06	R.J. Valente Gravel, Inc
173	10/10/2022	Type II Subbase	38.99	R.J. Valente Gravel, Inc
174	10/10/2022	Type II Subbase	35.41	R.J. Valente Gravel, Inc
175	10/11/2022	Type II Subbase	37.96	R.J. Valente Gravel, Inc
176	10/11/2022	Type II Subbase	38.42	R.J. Valente Gravel, Inc
177	10/11/2022	Type II Subbase	10.6	R.J. Valente Gravel, Inc
178	10/11/2022	Type II Subbase	36.18	R.J. Valente Gravel, Inc
179	10/17/2022	Type II Subbase	22.77	R.J. Valente Gravel, Inc
180	10/17/2022	Type II Subbase	22.37	R.J. Valente Gravel, Inc
181	10/17/2022	Type II Subbase	21.09	R.J. Valente Gravel, Inc
182	10/17/2022	Type II Subbase	22.29	R.J. Valente Gravel, Inc
183	10/17/2022	Type II Subbase	21.93	R.J. Valente Gravel, Inc
184	10/17/2022	Type II Subbase	23.26	R.J. Valente Gravel, Inc
185	10/17/2022	Type II Subbase	21.71	R.J. Valente Gravel, Inc
186	10/17/2022	Type II Subbase	21.21	R.J. Valente Gravel, Inc
187	10/18/2022	Type II Subbase	20.4	R.J. Valente Gravel, Inc
188	10/18/2022	Type II Subbase	20.68	R.J. Valente Gravel, Inc
189	10/18/2022	Type II Subbase	20.67	R.J. Valente Gravel, Inc
190	10/20/2022	Type II Subbase	22.89	R.J. Valente Gravel, Inc
191	10/20/2022	Type II Subbase	21.56	R.J. Valente Gravel, Inc
192	10/20/2022	Type II Subbase	21.81	R.J. Valente Gravel, Inc
Total Type II Subbase			5586.4	

Phase 1A Remedial Action
Troy (Water Street) Site - Area 2
Troy, New York

Total Re-Use Common Fill Imported/Month	
October 2022	958.8
November 2022	521.7
Total Cubic Yards Delivered	**1480.5**

Date	Material	Cubic Yards Delivered	Transporter
10/25/2022	Common Fill	14.1	Cohoes (Linden Street) Site
10/25/2022	Common Fill	14.1	Cohoes (Linden Street) Site
10/25/2022	Common Fill	14.1	Cohoes (Linden Street) Site
10/25/2022	Common Fill	14.1	Cohoes (Linden Street) Site
10/25/2022	Common Fill	14.1	Cohoes (Linden Street) Site
10/25/2022	Common Fill	14.1	Cohoes (Linden Street) Site
10/25/2022	Common Fill	14.1	Cohoes (Linden Street) Site
10/25/2022	Common Fill	14.1	Cohoes (Linden Street) Site
10/25/2022	Common Fill	14.1	Cohoes (Linden Street) Site
10/25/2022	Common Fill	14.1	Cohoes (Linden Street) Site
10/25/2022	Common Fill	14.1	Cohoes (Linden Street) Site
10/25/2022	Common Fill	14.1	Cohoes (Linden Street) Site
10/25/2022	Common Fill	14.1	Cohoes (Linden Street) Site
10/25/2022	Common Fill	14.1	Cohoes (Linden Street) Site
10/25/2022	Common Fill	14.1	Cohoes (Linden Street) Site
10/25/2022	Common Fill	14.1	Cohoes (Linden Street) Site
10/25/2022	Common Fill	14.1	Cohoes (Linden Street) Site
10/25/2022	Common Fill	14.1	Cohoes (Linden Street) Site
10/25/2022	Common Fill	14.1	Cohoes (Linden Street) Site
10/25/2022	Common Fill	14.1	Cohoes (Linden Street) Site
10/25/2022	Common Fill	14.1	Cohoes (Linden Street) Site
10/25/2022	Common Fill	14.1	Cohoes (Linden Street) Site
10/25/2022	Common Fill	14.1	Cohoes (Linden Street) Site
10/25/2022	Common Fill	14.1	Cohoes (Linden Street) Site
10/25/2022	Common Fill	14.1	Cohoes (Linden Street) Site
10/25/2022	Common Fill	14.1	Cohoes (Linden Street) Site
10/25/2022	Common Fill	14.1	Cohoes (Linden Street) Site
10/25/2022	Common Fill	14.1	Cohoes (Linden Street) Site
10/25/2022	Common Fill	14.1	Cohoes (Linden Street) Site
10/25/2022	Common Fill	14.1	Cohoes (Linden Street) Site
10/25/2022	Common Fill	14.1	Cohoes (Linden Street) Site
10/25/2022	Common Fill	14.1	Cohoes (Linden Street) Site
10/25/2022	Common Fill	14.1	Cohoes (Linden Street) Site
10/25/2022	Common Fill	14.1	Cohoes (Linden Street) Site
10/25/2022	Common Fill	14.1	Cohoes (Linden Street) Site
10/25/2022	Common Fill	14.1	Cohoes (Linden Street) Site
10/25/2022	Common Fill	14.1	Cohoes (Linden Street) Site
10/25/2022	Common Fill	14.1	Cohoes (Linden Street) Site

Phase 1A Remedial Action
Troy (Water Street) Site - Area 2
Troy, New York

Total Re-Use Common Fill Imported/Month	
October 2022	958.8
November 2022	521.7
Total Cubic Yards Delivered	**1480.5**

Date	Material	Cubic Yards Delivered	Transporter
10/25/2022	Common Fill	14.1	Cohoes (Linden Street) Site
10/25/2022	Common Fill	14.1	Cohoes (Linden Street) Site
10/25/2022	Common Fill	14.1	Cohoes (Linden Street) Site
10/25/2022	Common Fill	14.1	Cohoes (Linden Street) Site
10/25/2022	Common Fill	14.1	Cohoes (Linden Street) Site
10/25/2022	Common Fill	14.1	Cohoes (Linden Street) Site
10/26/2022	Common Fill	14.1	Cohoes (Linden Street) Site
10/26/2022	Common Fill	14.1	Cohoes (Linden Street) Site
10/26/2022	Common Fill	14.1	Cohoes (Linden Street) Site
10/26/2022	Common Fill	14.1	Cohoes (Linden Street) Site
10/26/2022	Common Fill	14.1	Cohoes (Linden Street) Site
10/26/2022	Common Fill	14.1	Cohoes (Linden Street) Site
10/26/2022	Common Fill	14.1	Cohoes (Linden Street) Site
10/26/2022	Common Fill	14.1	Cohoes (Linden Street) Site
10/26/2022	Common Fill	14.1	Cohoes (Linden Street) Site
10/26/2022	Common Fill	14.1	Cohoes (Linden Street) Site
10/26/2022	Common Fill	14.1	Cohoes (Linden Street) Site
10/26/2022	Common Fill	14.1	Cohoes (Linden Street) Site
10/27/2022	Common Fill	14.1	Cohoes (Linden Street) Site
10/27/2022	Common Fill	14.1	Cohoes (Linden Street) Site
10/27/2022	Common Fill	14.1	Cohoes (Linden Street) Site
10/27/2022	Common Fill	14.1	Cohoes (Linden Street) Site
10/27/2022	Common Fill	14.1	Cohoes (Linden Street) Site
10/27/2022	Common Fill	14.1	Cohoes (Linden Street) Site
10/27/2022	Common Fill	14.1	Cohoes (Linden Street) Site
10/27/2022	Common Fill	14.1	Cohoes (Linden Street) Site
10/27/2022	Common Fill	14.1	Cohoes (Linden Street) Site
10/27/2022	Common Fill	14.1	Cohoes (Linden Street) Site
11/17/2022	Common Fill	14.1	Cohoes (Linden Street) Site
11/17/2022	Common Fill	14.1	Cohoes (Linden Street) Site
11/17/2022	Common Fill	14.1	Cohoes (Linden Street) Site
11/17/2022	Common Fill	14.1	Cohoes (Linden Street) Site
11/17/2022	Common Fill	14.1	Cohoes (Linden Street) Site
11/17/2022	Common Fill	14.1	Cohoes (Linden Street) Site
11/17/2022	Common Fill	14.1	Cohoes (Linden Street) Site
11/17/2022	Common Fill	14.1	Cohoes (Linden Street) Site
11/17/2022	Common Fill	14.1	Cohoes (Linden Street) Site

Phase 1A Remedial Action
Troy (Water Street) Site - Area 2
Troy, New York

Total Re-Use Common Fill Imported/Month	
October 2022	958.8
November 2022	521.7
Total Cubic Yards Delivered	**1480.5**

Date	Material	Cubic Yards Delivered	Transporter
11/17/2022	Common Fill	14.1	Cohoes (Linden Street) Site
11/17/2022	Common Fill	14.1	Cohoes (Linden Street) Site
11/17/2022	Common Fill	14.1	Cohoes (Linden Street) Site
11/17/2022	Common Fill	14.1	Cohoes (Linden Street) Site
11/17/2022	Common Fill	14.1	Cohoes (Linden Street) Site
11/17/2022	Common Fill	14.1	Cohoes (Linden Street) Site
11/17/2022	Common Fill	14.1	Cohoes (Linden Street) Site
11/17/2022	Common Fill	14.1	Cohoes (Linden Street) Site
11/17/2022	Common Fill	14.1	Cohoes (Linden Street) Site
11/17/2022	Common Fill	14.1	Cohoes (Linden Street) Site
11/17/2022	Common Fill	14.1	Cohoes (Linden Street) Site
11/17/2022	Common Fill	14.1	Cohoes (Linden Street) Site
11/17/2022	Common Fill	14.1	Cohoes (Linden Street) Site
11/17/2022	Common Fill	14.1	Cohoes (Linden Street) Site
11/17/2022	Common Fill	14.1	Cohoes (Linden Street) Site
11/17/2022	Common Fill	14.1	Cohoes (Linden Street) Site
11/17/2022	Common Fill	14.1	Cohoes (Linden Street) Site
11/17/2022	Common Fill	14.1	Cohoes (Linden Street) Site
11/17/2022	Common Fill	14.1	Cohoes (Linden Street) Site
11/18/2022	Common Fill	14.1	Cohoes (Linden Street) Site
11/18/2022	Common Fill	14.1	Cohoes (Linden Street) Site
11/18/2022	Common Fill	14.1	Cohoes (Linden Street) Site
11/18/2022	Common Fill	14.1	Cohoes (Linden Street) Site
11/18/2022	Common Fill	14.1	Cohoes (Linden Street) Site
11/18/2022	Common Fill	14.1	Cohoes (Linden Street) Site
11/18/2022	Common Fill	14.1	Cohoes (Linden Street) Site
11/18/2022	Common Fill	14.1	Cohoes (Linden Street) Site
Total Re-Use Common Fill		1480.5	

Gas Pipeline Replacement Corridor Remedial Action
Troy (Water Street) Site- Area 3
Troy, New York

Total Common Fill Imported/Month	
June 2022	1598
Total Cubic Yards Delivered	**1598**

Date	Material	Cubic Yards Delivered	Transporter
6/24/2022	Common Fill	18	R.J. Valente Gravel, Inc
6/24/2022	Common Fill	18	R.J. Valente Gravel, Inc
6/24/2022	Common Fill	20	R.J. Valente Gravel, Inc
6/27/2022	Common Fill	20	R.J. Valente Gravel, Inc
6/27/2022	Common Fill	18	R.J. Valente Gravel, Inc
6/27/2022	Common Fill	18	R.J. Valente Gravel, Inc
6/27/2022	Common Fill	20	R.J. Valente Gravel, Inc
6/27/2022	Common Fill	20	R.J. Valente Gravel, Inc
6/27/2022	Common Fill	20	R.J. Valente Gravel, Inc
6/27/2022	Common Fill	20	R.J. Valente Gravel, Inc
6/27/2022	Common Fill	20	R.J. Valente Gravel, Inc
6/27/2022	Common Fill	18	R.J. Valente Gravel, Inc
6/27/2022	Common Fill	18	R.J. Valente Gravel, Inc
6/27/2022	Common Fill	18	R.J. Valente Gravel, Inc
6/27/2022	Common Fill	18	R.J. Valente Gravel, Inc
6/27/2022	Common Fill	18	R.J. Valente Gravel, Inc
6/27/2022	Common Fill	18	R.J. Valente Gravel, Inc
6/27/2022	Common Fill	18	R.J. Valente Gravel, Inc
6/27/2022	Common Fill	18	R.J. Valente Gravel, Inc
6/27/2022	Common Fill	18	R.J. Valente Gravel, Inc
6/27/2022	Common Fill	18	R.J. Valente Gravel, Inc
6/27/2022	Common Fill	18	R.J. Valente Gravel, Inc
6/28/2022	Common Fill	18	R.J. Valente Gravel, Inc
6/28/2022	Common Fill	18	R.J. Valente Gravel, Inc
6/28/2022	Common Fill	18	R.J. Valente Gravel, Inc
6/28/2022	Common Fill	18	R.J. Valente Gravel, Inc
6/28/2022	Common Fill	20	R.J. Valente Gravel, Inc
6/28/2022	Common Fill	18	R.J. Valente Gravel, Inc
6/28/2022	Common Fill	18	R.J. Valente Gravel, Inc
6/28/2022	Common Fill	18	R.J. Valente Gravel, Inc
6/28/2022	Common Fill	18	R.J. Valente Gravel, Inc
6/28/2022	Common Fill	18	R.J. Valente Gravel, Inc
6/28/2022	Common Fill	18	R.J. Valente Gravel, Inc
6/28/2022	Common Fill	18	R.J. Valente Gravel, Inc
6/28/2022	Common Fill	18	R.J. Valente Gravel, Inc
6/28/2022	Common Fill	18	R.J. Valente Gravel, Inc
6/28/2022	Common Fill	18	R.J. Valente Gravel, Inc
6/28/2022	Common Fill	18	R.J. Valente Gravel, Inc
6/28/2022	Common Fill	18	R.J. Valente Gravel, Inc
6/28/2022	Common Fill	18	R.J. Valente Gravel, Inc
6/28/2022	Common Fill	18	R.J. Valente Gravel, Inc

Gas Pipeline Replacement Corridor Remedial Action
Troy (Water Street) Site- Area 3
Troy, New York

Total Common Fill Imported/Month	
June 2022	1598
Total Cubic Yards Delivered	**1598**

Date	Material	Cubic Yards Delivered	Transporter
6/28/2022	Common Fill	20	R.J. Valente Gravel, Inc
6/29/2022	Common Fill	26	R.J. Valente Gravel, Inc
6/29/2022	Common Fill	26	R.J. Valente Gravel, Inc
6/29/2022	Common Fill	26	R.J. Valente Gravel, Inc
6/29/2022	Common Fill	26	R.J. Valente Gravel, Inc
6/29/2022	Common Fill	26	R.J. Valente Gravel, Inc
6/29/2022	Common Fill	26	R.J. Valente Gravel, Inc
6/29/2022	Common Fill	26	R.J. Valente Gravel, Inc
6/29/2022	Common Fill	26	R.J. Valente Gravel, Inc
6/29/2022	Common Fill	26	R.J. Valente Gravel, Inc
6/29/2022	Common Fill	26	R.J. Valente Gravel, Inc
6/29/2022	Common Fill	26	R.J. Valente Gravel, Inc
6/29/2022	Common Fill	26	R.J. Valente Gravel, Inc
6/29/2022	Common Fill	26	R.J. Valente Gravel, Inc
6/29/2022	Common Fill	26	R.J. Valente Gravel, Inc
6/29/2022	Common Fill	26	R.J. Valente Gravel, Inc
6/29/2022	Common Fill	28	R.J. Valente Gravel, Inc
6/29/2022	Common Fill	28	R.J. Valente Gravel, Inc
6/29/2022	Common Fill	28	R.J. Valente Gravel, Inc
6/29/2022	Common Fill	28	R.J. Valente Gravel, Inc
6/29/2022	Common Fill	28	R.J. Valente Gravel, Inc
6/30/2022	Common Fill	26	R.J. Valente Gravel, Inc
6/30/2022	Common Fill	26	R.J. Valente Gravel, Inc
6/30/2022	Common Fill	26	R.J. Valente Gravel, Inc
6/30/2022	Common Fill	26	R.J. Valente Gravel, Inc
6/30/2022	Common Fill	26	R.J. Valente Gravel, Inc
6/30/2022	Common Fill	26	R.J. Valente Gravel, Inc
6/30/2022	Common Fill	26	R.J. Valente Gravel, Inc
6/30/2022	Common Fill	26	R.J. Valente Gravel, Inc
6/30/2022	Common Fill	26	R.J. Valente Gravel, Inc
6/30/2022	Common Fill	26	R.J. Valente Gravel, Inc
6/30/2022	Common Fill	26	R.J. Valente Gravel, Inc
6/30/2022	Common Fill	26	R.J. Valente Gravel, Inc
6/30/2022	Common Fill	26	R.J. Valente Gravel, Inc
6/30/2022	Common Fill	26	R.J. Valente Gravel, Inc
Total Common Fill		1598	

Gas Pipeline Replacement Corridor Remedial Action
Troy (Water Street) Site- Area 3
Troy, New York

#2 Crushed Stone Imported/Month	
May 2022	22.98
Total #2 Stone Delivered	**22.98**
#3 Crushed Stone Imported/Month	
June 2022	85.69
Total #3 Stone Delivered	**85.69**

Date	Material	Tons Delivered	Transporter
5/26/2022	#2 stone	22.98	R.J. Valente Gravel, Inc
6/2/2022	#3 stone	20.63	R.J. Valente Gravel, Inc
6/8/2022	#3 stone	22.21	R.J. Valente Gravel, Inc
6/8/2022	#3 stone	21.73	R.J. Valente Gravel, Inc
6/8/2022	#3 stone	21.12	R.J. Valente Gravel, Inc

Gas Pipeline Replacement Corridor Remedial Action
Troy (Water Street) Site- Area 3
Troy, New York

Total Type II Subbase Imported/Month	
May 2022	126.15
June 2022	473.56
July 2022	405.69
Total Tonnage	**1005.4**

Load #	Date	Material	Tons Delivered	Transporter
1	5/27/2022	Type II Subbase	19.65	R.J. Valente Gravel, Inc
2	5/27/2022	Type II Subbase	21.33	R.J. Valente Gravel, Inc
3	5/27/2022	Type II Subbase	21.6	R.J. Valente Gravel, Inc
4	5/27/2022	Type II Subbase	21.68	R.J. Valente Gravel, Inc
5	5/27/2022	Type II Subbase	21.76	R.J. Valente Gravel, Inc
6	5/27/2022	Type II Subbase	20.13	R.J. Valente Gravel, Inc
7	6/8/2022	Type II Subbase	22.28	R.J. Valente Gravel, Inc
8	6/8/2022	Type II Subbase	22.23	R.J. Valente Gravel, Inc
9	6/8/2022	Type II Subbase	21.52	R.J. Valente Gravel, Inc
10	6/8/2022	Type II Subbase	21.88	R.J. Valente Gravel, Inc
11	6/8/2022	Type II Subbase	23.23	R.J. Valente Gravel, Inc
12	6/24/2022	Type II Subbase	23.5	R.J. Valente Gravel, Inc
13	6/24/2022	Type II Subbase	23.1	R.J. Valente Gravel, Inc
14	6/24/2022	Type II Subbase	23.75	R.J. Valente Gravel, Inc
15	6/24/2022	Type II Subbase	22.63	R.J. Valente Gravel, Inc
16	6/24/2022	Type II Subbase	22.24	R.J. Valente Gravel, Inc
17	6/24/2022	Type II Subbase	22.76	R.J. Valente Gravel, Inc
18	6/27/2022	Type II Subbase	21.57	R.J. Valente Gravel, Inc
19	6/27/2022	Type II Subbase	22.16	R.J. Valente Gravel, Inc
20	6/27/2022	Type II Subbase	21.6	R.J. Valente Gravel, Inc
21	6/27/2022	Type II Subbase	22.09	R.J. Valente Gravel, Inc
22	6/27/2022	Type II Subbase	20.37	R.J. Valente Gravel, Inc
23	6/27/2022	Type II Subbase	20.75	R.J. Valente Gravel, Inc
24	6/27/2022	Type II Subbase	22.45	R.J. Valente Gravel, Inc
25	6/30/2022	Type II Subbase	35.89	R.J. Valente Gravel, Inc
26	6/30/2022	Type II Subbase	37.56	R.J. Valente Gravel, Inc
27	7/1/2022	Type II Subbase	36.76	R.J. Valente Gravel, Inc
28	7/1/2022	Type II Subbase	39.36	R.J. Valente Gravel, Inc
29	7/1/2022	Type II Subbase	39.26	R.J. Valente Gravel, Inc
30	7/1/2022	Type II Subbase	36.34	R.J. Valente Gravel, Inc
31	7/1/2022	Type II Subbase	36.52	R.J. Valente Gravel, Inc
32	7/1/2022	Type II Subbase	37.65	R.J. Valente Gravel, Inc
33	7/1/2022	Type II Subbase	36.2	R.J. Valente Gravel, Inc
34	7/5/2022	Type II Subbase	38.44	R.J. Valente Gravel, Inc
35	7/5/2022	Type II Subbase	39.2	R.J. Valente Gravel, Inc
36	7/6/2022	Type II Subbase	43.34	R.J. Valente Gravel, Inc
37	7/11/2022	Type II Subbase	22.62	R.J. Valente Gravel, Inc
Total Type II Subbase			1005.4	

Nia Gilliam

From: Spellman, John (DEC) <john.spellman@dec.ny.gov>
Sent: Wednesday, June 22, 2022 8:12 AM
To: Adam Gutta
Cc: Adam Sherman; Cummins, Gerald
Subject: RE: Troy Phase 1A/Gas Corridor Remediation Common Fill Sampling Frequency

Hi Adam,

Brown and Caldwell's June 17, 2022 Request to Import Fill material is approved for use on the subject project.

Thank you for your prompt response.

John

John Spellman, P.E.
Project Manager, Remedial Bureau C
Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway, Albany, NY 12233-7014
P: 518-402-9686| F: 518-402-9679 | john.spellman@dec.ny.gov

From: Adam Gutta <agutta@BrwnCald.com>
Sent: Tuesday, June 21, 2022 8:40 PM
To: Spellman, John (DEC) <john.spellman@dec.ny.gov>
Cc: Adam Sherman <ASherman@Brwncald.com>; Cummins, Gerald <Gerald.Cummins@nationalgrid.com>
Subject: RE: Troy Phase 1A/Gas Corridor Remediation Common Fill Sampling Frequency

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

John,

Please find attached the revised Request to Import PDF package (with BTEX results). For easier navigation the PDF is bookmarked with each attachment.

Thank you,

Adam Gutta, P.E.

From: Spellman, John (DEC) <john.spellman@dec.ny.gov>
Sent: Tuesday, June 21, 2022 3:47 PM
To: Adam Gutta <agutta@BrwnCald.com>

Cc: Adam Sherman <ASherman@Brwncald.com>; Cummins, Gerald <Gerald.Cummins@nationalgrid.com>
Subject: RE: Troy Phase 1A/Gas Corridor Remediation Common Fill Sampling Frequency

Sounds good Adam, thank you.

From: Adam Gutta <agutta@BrwnCald.com>
Sent: Tuesday, June 21, 2022 3:41 PM
To: Spellman, John (DEC) <john.spellman@dec.ny.gov>
Cc: Adam Sherman <ASherman@Brwncald.com>; Cummins, Gerald <Gerald.Cummins@nationalgrid.com>
Subject: RE: Troy Phase 1A/Gas Corridor Remediation Common Fill Sampling Frequency

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John, Sorry about that mix up. We spoke with the lab and there was a mistake with how the reports were prepared. The request to import package will be revised and resent.

Thank you,
Adam Gutta, P.E.

From: Spellman, John (DEC) <john.spellman@dec.ny.gov>
Sent: Tuesday, June 21, 2022 1:28 PM
To: Adam Gutta <agutta@BrwnCald.com>
Cc: Adam Sherman <ASherman@Brwncald.com>; Cummins, Gerald <Gerald.Cummins@nationalgrid.com>
Subject: RE: Troy Phase 1A/Gas Corridor Remediation Common Fill Sampling Frequency

Hi Adam,

Thank you. Is there an intentional exclusion of the BTEX compounds?

John

John Spellman, P.E.
Project Manager, Remedial Bureau C
Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway, Albany, NY 12233-7014
P: 518-402-9686| F: 518-402-9679 | john.spellman@dec.ny.gov

From: Adam Gutta <agutta@BrwnCald.com>
Sent: Monday, June 20, 2022 8:21 AM
To: Spellman, John (DEC) <john.spellman@dec.ny.gov>
Cc: Adam Sherman <ASherman@Brwncald.com>; Cummins, Gerald <Gerald.Cummins@nationalgrid.com>
Subject: RE: Troy Phase 1A/Gas Corridor Remediation Common Fill Sampling Frequency

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

John,

Please find attached the Request to Import package for Common Fill. If you have any questions or comments, please let me know. The Category B deliverable for PFAS results will be uploaded to the project OneDrive later.

Thank you,

Adam Gutta, P.E.

From: Spellman, John (DEC) <john.spellman@dec.ny.gov>
Sent: Tuesday, May 17, 2022 8:18 AM
To: Adam Gutta <agutta@BrwnCald.com>
Cc: Adam Sherman <ASherman@Brwncald.com>; Cummins, Gerald <Gerald.Cummins@nationalgrid.com>
Subject: RE: Troy Phase 1A/Gas Corridor Remediation Common Fill Sampling Frequency

Hello Adam,

The New York State Department of Environmental Conservation approves of the proposed sampling frequency you describe below.

Regards,

John

John Spellman, P.E.
Project Manager, Remedial Bureau C
Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway, Albany, NY 12233-7014
P: 518-402-9686| F: 518-402-9679 | john.spellman@dec.ny.gov

From: Adam Gutta <agutta@BrwnCald.com>
Sent: Monday, May 16, 2022 12:35 PM
To: Spellman, John (DEC) <john.spellman@dec.ny.gov>
Cc: Adam Sherman <ASherman@Brwncald.com>; Cummins, Gerald <Gerald.Cummins@nationalgrid.com>
Subject: Troy Phase 1A/Gas Corridor Remediation Common Fill Sampling Frequency

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

John,

We are preparing to collect samples of import fill materials for testing of DER-10 parameters and emerging contaminants (PFAS and 1,4-dioxane). Land Remediation is proposing to use the same source (Luther Forest Mine, Mine ID 50049) that is being used for the National Grid Cohoes Remediation project. To date, up to 26,000 cubic yards of common fill has been approved for Residential Use and Protection of Ecological Resources by NYSDEC (John Miller is the project manager, refer to the attached Request to Import packages). As part of the Cohoes project, numerous samples were collected for lab analytical, as follows:

- Round 1 (5 samples), Round 2 (10), Round 3 (12), Round 4 (10) = 37 discrete samples for VOC analysis
- Round 1 (2), Round 2 (3), Round 3 (6), Round 4 (5) = 16 composite samples for SVOCs, inorganics, PCBs and pesticides analysis
- Round 1 (2), Round 2 (4), Round 3 (6), Round 4 (3) = 15 composite samples for emerging contaminants (PFAS and 1,4-dioxane) analysis

For Troy Phase 1A/Gas Corridor Remediation Project, we anticipate import of approximately 9,000 cy (7,000 cy for Area 2 and 1,600 cy for Area 3) of common fill from the same source. Considering that we are planning to use the same source, which is a permitted mine that has demonstrated a trend of compliance, would the NYSDEC be amenable to a reduction in the frequency of sampling for this project? We believe this request is consistent with DER-10 (paragraph 5.4(e)3, snapshot below).

The following table summarizes the number of samples per DER-10 and the proposed number of samples for this project.

	Number of Samples for 9,000 cy per DER-10 Table 5.4(e)10	Proposed Modified Number of Samples for Phase 1A/Gas Corridor Project
Discrete Samples (VOCs)	7 (for first 1000) + 16 (for next 8000) = 23	9 (1 sample per 1,000 cy)
Composite Samples (SVOCs, inorganics, PCBs and pesticides, and emerging contaminants)	2 (for first 1000) + 8 (for next 8000) = 10	5 (1 sample per 2,000 cy)

Please let me know if you concur or if you would like to discuss this further.

Thank you,
Adam

Snapshot from DER-10 paragraph 5.4(e)3:

3. Sampling is required for all imported soil for use as backfill or cover material. Sampling frequency of the material will be determined by the remedial design or remedial action work plan:

i. considering Table 5.4(e)10 and paragraph 10 below, and sampling will be performed consistent with sections 2.1 through 2.3;

ii. with a minimum one sample analyzed from every new source, at the following sampling frequency for:

(1) soil or sand imported from a virgin mine/pit, at least one round of characterization samples for the initial 100 cubic yards of material, in accordance with Table 5.4(e)10 below;

(2) material sources other than a virgin mine/pit (e.g., a former manufacturing site), in accordance with Table 5.4(e)10; or

(3) sites where large amounts of cover material/backfill are required, the sampling frequency can be reduced from that specified in Table 5.4(e)10 once a trend of compliance is established; and

iii. the DER project manager may modify the number of samples required by subparagraph ii above based on the site being remediated and the source of the material, in accordance with the modification provisions set forth in section 1.6.

Adam Gutta, P.E.
*Professional Engineer in New York State
Brown and Caldwell
agutta@brwncald.com
T 508.819.1410 | **C** 518.729.9363

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NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e). Use of this form is not a substitute for reading the applicable Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is: Commercial or Industrial Use

Have Ecological Resources been identified? yes

Is this soil originating from the site? no

How many cubic yards of soil will be imported/reused? >1000

If greater than 1000 cubic yards will be imported, enter volume to be imported: 10,000

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone? no

Does it contain less than 10%, by weight, material that would pass a size 80 sieve? no

Is this virgin material from a permitted mine or quarry? yes

Is this material recycled concrete or brick from a DEC registered processing facility? no

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

Per email correspondence with NYSDEC Project Manager dated May 16 and 17, 2022, considering the extent of previous recent sampling and analysis of the proposed source for imported fill, the required number of samples for common fill import to the project site was established as one (1) discrete sample per 1,000 cy for VOC analysis and one (1) composite sample per 2,000 cy for analysis SVOCs, inorganics, PCBs and pesticides, and emerging contaminants. Based on this, for the requested import of 10,000 cy, 10 discrete samples were analyzed for VOCs and 5 composite samples were analyzed for SVOCs, PCBs, Pesticides/Herbicides, Metals, and Hexavalent Chromium. Additionally, 5 composite samples were collected from the stockpile for analysis of emerging contaminants PFAS and 1,4-Dioxane.

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

The analytical results for DER-10 parameters are included in Attachment 3a (results for SVOCs on pages 7 to 16, PCBs on pages 22 to 26, Pesticides/Herbicides on pages 30 to 34, Hexavalent Chromium on pages 38 to 47, and Metals on pages 63 to 72) and in Attachment 3b (results for VOCs on pages 7 to 26).

The analytical results for emerging contaminant 1,4-Dioxane and PFAS are included in Attachment 4a. Attachment 4b (NYS Category B Deliverable for PFAS results) will be uploaded to the project OneDrive due to file size.

The results of the DER-10 analytical results are below allowable levels for Commercial or Industrial Use and for Protection of Ecological Resources. Emerging contaminants 1,4-Dioxane and PFAS were not detected.

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

Stephen A. Valente, Quality Representative, RJ Valente Gravel

Location where fill was obtained:

RJ Valente, George Thompson Road, Mechanicville, NY 12118

Identification of any state or local approvals as a fill source:

Mine ID 50049 (Luther Mine Forest)

If no approvals are available, provide a brief history of the use of the property that is the fill source:

Refer to Attachment 1.

Provide a list of supporting documentation included with this request:

Attachment 1 - Source Certification Statement
Attachment 2 - Results of Geotechnical Testing
Attachments 3a and 3b - Results of DER-10 Analytical Testing
Attachments 4a and 4b - Results of Emerging Contaminant (1,4-Dioxane and PFAS) Testing

The information provided on this form is accurate and complete.

Adam Sherman

Digitally signed by Adam Sherman
DN: CN=Adam Sherman, E=ASherman@Brwncald.com, O=Brown and Caldwell, C=US
Date: 2022.06.17 15:18:25-04'00'

Signature

6/17/22

Date

Adam Sherman

Print Name

Brown and Caldwell

Firm

RJ VALENTE GRAVEL Inc.
1 MADISON ST.SUITE 300
TROY NY 12180
518-279-1001



Attachment 1 - Source Certification Letter

TO WHOM IT MAY CONCERN:

As per your request, please accept this correspondence as follows: For the Troy (Water Street) - Phase 1A Remediation - Former MGP project in Troy, NY.

All imported materials to be delivered to the above referenced project, do not, to the best of our knowledge contain any known contamination from prior historical, industrial, commercial development or agricultural use prior to delivery.

The fill material originates from the following virgin sand and gravel pit:
Mackay Pit as designated by the NYS DEC at, George Thompson Rd. Mechanicville NY 12118.

Luther Forest Mine - Mine ID # 50049

STEPHEN A.VALENTE

CONSTRUCTION TECHNOLOGY

INSPECTION & TESTING DIVISION, P.D.& T.S., INC.
4 William Street, Ballston Lake, New York 12019
Phone: (518) 399-1848 Email: constructiontech@live.com

Attachment 2 - Geotechnical Testing

CLIENT: **LAND REMEDIATION**
74 HUDSON RIVER ROAD
WATERFORD, NEW YORK 12188

REPORT DATE: 08/11/21
SAMPLE NUMBER: 21357
OUR FILE NUMBER: 1526.015
LAB TECHNICIAN: BOB BEHAN

ATT'N: MR. JONATHON BORRELLI
PROJECT: **NATIONAL GRID PROJECT: COHOES, NEW YORK**

REPORT OF MOISTURE / DENSITY RELATION OF SOILS ::: PROCTOR

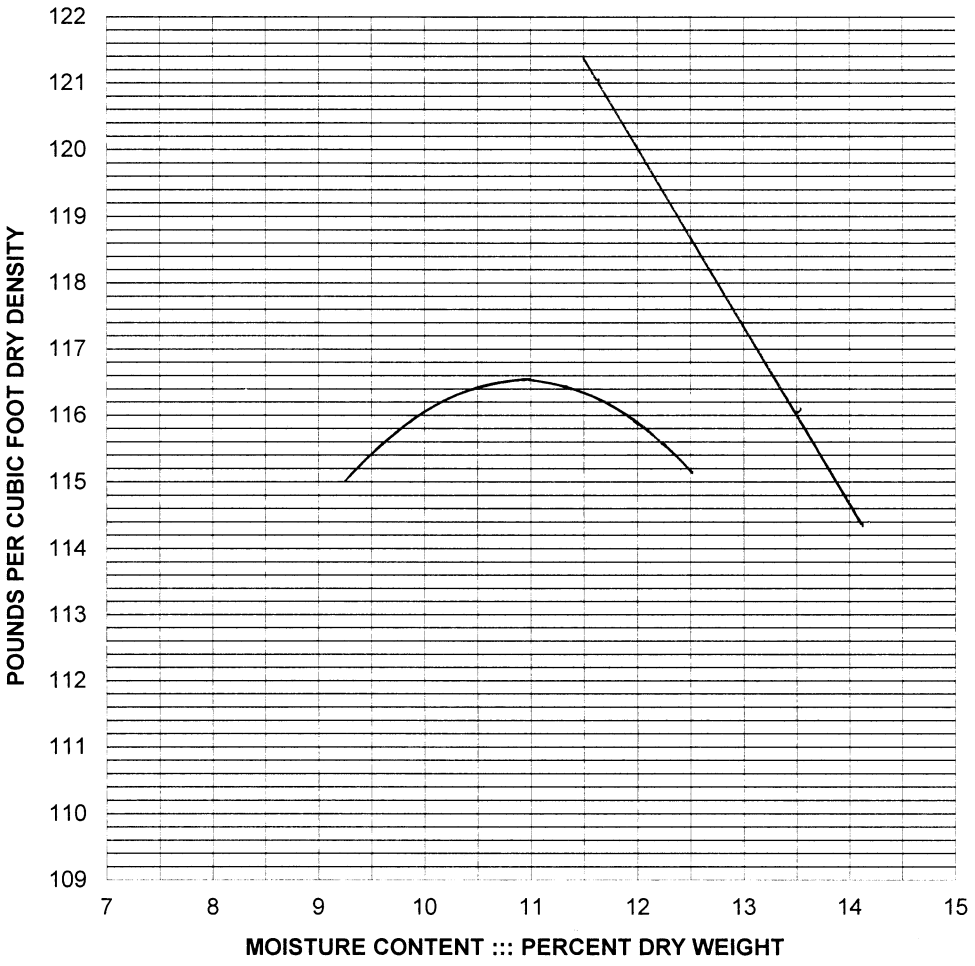
MATERIAL SOURCE: **BORROW: COMMON FILL**
MATERIAL DESCRIPTION: SAND, fine/medium; trace Silt/Clay; trace fine Gravel
PROCTOR METHOD: ASTM D-1557: MODIFIED EFFORT
GRADATION METHOD: ASTM D-1140 / D-422: WASHED

MAXIMUM DENSITY **116.6** PCF
OPTIMUM MOISTURE **10.9** %

GRADATION

SIEVE SIZE	PERCENT PASSING	SPECIFICATION ALLOWANCE
4"		
3"		
2 1/2"		
2"		
1 1/2"		
1"		
3/4"		
1/2"		
3/8"	100.0	
1/4"	98.7	
#4	97.8	
1/8"		
#8	94.4	
#10		
#16	88.2	
#20		
#30	72.8	
#40	57.4	
#50	36.9	
#60		
#80		
#100	14.6	
#140		
#200	8.8	

ZERO AIR VOIDS CURVE: 2.50 SPECIFIC GRAVITY



REPORT DISTRIBUTION:
1:
2:
3:
4:
5:

GENERAL NOTES:

Respectfully,
CONSTRUCTION TECHNOLOGY

Robert Behan

ROBERT BEHAN, (NICET)
MANAGER TECHNICAL SERVICES

Attachment 3a - DER-10 Semivolatile, PCBs, Pesticides, Hexavalent Chromium, and Metals Analytical Results

ANALYTICAL REPORT

Lab Number:	L2227105
Client:	Land Remediation, Inc. 74 Hudson River Road Waterford, NY 12188
ATTN:	Jonathan Borrelli
Phone:	(203) 233-4100
Project Name:	TROY (WATER STREET) PHASE 1A
Project Number:	TROY (WATER STREET)
Report Date:	06/07/22

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: TROY (WATER STREET) PHASE 1A
Project Number: TROY (WATER STREET)

Lab Number: L2227105
Report Date: 06/07/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2227105-01	TROY-CF-1	SOIL	8000 MAIN STREET, TROY NY 12180	05/20/22 09:00	05/20/22
L2227105-02	TROY-CF-1A	SOIL	8000 MAIN STREET, TROY NY 12180	05/20/22 09:15	05/20/22
L2227105-03	TROY-CF-2	SOIL	8000 MAIN STREET, TROY NY 12180	05/20/22 09:30	05/20/22
L2227105-04	TROY-CF-2A	SOIL	8000 MAIN STREET, TROY NY 12180	05/20/22 09:45	05/20/22
L2227105-05	TROY-CF-3	SOIL	8000 MAIN STREET, TROY NY 12180	05/20/22 10:00	05/20/22
L2227105-06	TROY-CF-3A	SOIL	8000 MAIN STREET, TROY NY 12180	05/20/22 10:15	05/20/22
L2227105-07	TROY-CF-4	SOIL	8000 MAIN STREET, TROY NY 12180	05/20/22 10:30	05/20/22
L2227105-08	TROY-CF-4A	SOIL	8000 MAIN STREET, TROY NY 12180	05/20/22 10:45	05/20/22
L2227105-09	TROY-CF-5	SOIL	8000 MAIN STREET, TROY NY 12180	05/20/22 11:00	05/20/22
L2227105-10	TROY-CF-5A	SOIL	8000 MAIN STREET, TROY NY 12180	05/20/22 11:15	05/20/22

Project Name:	TROY (WATER STREET) PHASE 1A	**Lab Number:**	L2227105
Project Number:	TROY (WATER STREET)	**Report Date:**	06/07/22

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	TROY (WATER STREET) PHASE 1A	**Lab Number:**	L2227105
Project Number:	TROY (WATER STREET)	**Report Date:**	06/07/22

Case Narrative (continued)

Report Submission

The analysis of Total Metals was subcontracted. A copy of the laboratory report is included as an addendum. Please note: This data is only available in PDF format and is not available on Data Merger.

Sample Receipt

L2227105-01 through -08 and -10: The water-preserved VOA vials for Volatile Organics Low-Level analysis were frozen beyond the 48 hour holding time required for freezing. The analysis was cancelled at the client's request.

Cyanide, Total

The WG1645368-2 LCS recovery for cyanide, total (43%), associated with L2227105-01, -03, -05, -07, and -09, is outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

The WG1645368-2/-3 LCS/LCSD RPD, associated with L2227105-01, -03, -05, -07, and -09, is above the acceptance criteria for cyanide, total (51%).

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Melissa Sturgis Melissa Sturgis

Title: Technical Director/Representative Date: 06/07/22

ORGANICS

SEMIVOLATILES

Project Name: TROY (WATER STREET) PHASE 1A
Lab Number: L2227105
Project Number: TROY (WATER STREET)
Report Date: 06/07/22

SAMPLE RESULTS

Lab ID: L2227105-01
Client ID: TROY-CF-1
Sample Location: 8000 MAIN STREET, TROY NY 12180

Date Collected: 05/20/22 09:00
Date Received: 05/20/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/31/22 16:25
Analyst: IM
Percent Solids: 94%

Extraction Method: EPA 3546
Extraction Date: 05/29/22 23:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	--	1
Hexachlorobenzene	ND		ug/kg	100	--	1
Fluoranthene	ND		ug/kg	100	--	1
Naphthalene	ND		ug/kg	180	--	1
Benzo(a)anthracene	ND		ug/kg	100	--	1
Benzo(a)pyrene	ND		ug/kg	140	--	1
Benzo(b)fluoranthene	ND		ug/kg	100	--	1
Benzo(k)fluoranthene	ND		ug/kg	100	--	1
Chrysene	ND		ug/kg	100	--	1
Acenaphthylene	ND		ug/kg	140	--	1
Anthracene	ND		ug/kg	100	--	1
Benzo(ghi)perylene	ND		ug/kg	140	--	1
Fluorene	ND		ug/kg	180	--	1
Phenanthrene	ND		ug/kg	100	--	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	--	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	--	1
Pyrene	ND		ug/kg	100	--	1
Dibenzofuran	ND		ug/kg	180	--	1
Pentachlorophenol	ND		ug/kg	140	--	1
Phenol	ND		ug/kg	180	--	1
2-Methylphenol	ND		ug/kg	180	--	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	--	1

Project Name: TROY (WATER STREET) PHASE 1A **Lab Number:** L2227105

Project Number: TROY (WATER STREET) **Report Date:** 06/07/22

SAMPLE RESULTS

Lab ID: L2227105-01 Date Collected: 05/20/22 09:00

Client ID: TROY-CF-1 Date Received: 05/20/22

Sample Location: 8000 MAIN STREET, TROY NY 12180 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	92		25-120
Phenol-d6	96		10-120
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	98		30-120
2,4,6-Tribromophenol	117		10-136
4-Terphenyl-d14	104		18-120

Project Name: TROY (WATER STREET) PHASE 1A
Lab Number: L2227105
Project Number: TROY (WATER STREET)
Report Date: 06/07/22

SAMPLE RESULTS

Lab ID: L2227105-03
Client ID: TROY-CF-2
Sample Location: 8000 MAIN STREET, TROY NY 12180

Date Collected: 05/20/22 09:30
Date Received: 05/20/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/31/22 16:49
Analyst: IM
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 05/29/22 23:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	--	1
Hexachlorobenzene	ND		ug/kg	110	--	1
Fluoranthene	ND		ug/kg	110	--	1
Naphthalene	ND		ug/kg	180	--	1
Benzo(a)anthracene	ND		ug/kg	110	--	1
Benzo(a)pyrene	ND		ug/kg	140	--	1
Benzo(b)fluoranthene	ND		ug/kg	110	--	1
Benzo(k)fluoranthene	ND		ug/kg	110	--	1
Chrysene	ND		ug/kg	110	--	1
Acenaphthylene	ND		ug/kg	140	--	1
Anthracene	ND		ug/kg	110	--	1
Benzo(ghi)perylene	ND		ug/kg	140	--	1
Fluorene	ND		ug/kg	180	--	1
Phenanthrene	ND		ug/kg	110	--	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	--	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	--	1
Pyrene	ND		ug/kg	110	--	1
Dibenzofuran	ND		ug/kg	180	--	1
Pentachlorophenol	ND		ug/kg	140	--	1
Phenol	ND		ug/kg	180	--	1
2-Methylphenol	ND		ug/kg	180	--	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	--	1

Project Name: TROY (WATER STREET) PHASE 1A **Lab Number:** L2227105

Project Number: TROY (WATER STREET) **Report Date:** 06/07/22

SAMPLE RESULTS

Lab ID: L2227105-03 Date Collected: 05/20/22 09:30

Client ID: TROY-CF-2 Date Received: 05/20/22

Sample Location: 8000 MAIN STREET, TROY NY 12180 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	87		25-120
Phenol-d6	90		10-120
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	89		30-120
2,4,6-Tribromophenol	98		10-136
4-Terphenyl-d14	87		18-120

Project Name: TROY (WATER STREET) PHASE 1A
Lab Number: L2227105
Project Number: TROY (WATER STREET)
Report Date: 06/07/22

SAMPLE RESULTS

Lab ID: L2227105-05
Client ID: TROY-CF-3
Sample Location: 8000 MAIN STREET, TROY NY 12180

Date Collected: 05/20/22 10:00
Date Received: 05/20/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/31/22 17:12
Analyst: IM
Percent Solids: 94%

Extraction Method: EPA 3546
Extraction Date: 05/29/22 23:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	--	1
Hexachlorobenzene	ND		ug/kg	100	--	1
Fluoranthene	ND		ug/kg	100	--	1
Naphthalene	ND		ug/kg	170	--	1
Benzo(a)anthracene	ND		ug/kg	100	--	1
Benzo(a)pyrene	ND		ug/kg	140	--	1
Benzo(b)fluoranthene	ND		ug/kg	100	--	1
Benzo(k)fluoranthene	ND		ug/kg	100	--	1
Chrysene	ND		ug/kg	100	--	1
Acenaphthylene	ND		ug/kg	140	--	1
Anthracene	ND		ug/kg	100	--	1
Benzo(ghi)perylene	ND		ug/kg	140	--	1
Fluorene	ND		ug/kg	170	--	1
Phenanthrene	ND		ug/kg	100	--	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	--	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	--	1
Pyrene	ND		ug/kg	100	--	1
Dibenzofuran	ND		ug/kg	170	--	1
Pentachlorophenol	ND		ug/kg	140	--	1
Phenol	ND		ug/kg	170	--	1
2-Methylphenol	ND		ug/kg	170	--	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	--	1

Project Name: TROY (WATER STREET) PHASE 1A **Lab Number:** L2227105

Project Number: TROY (WATER STREET) **Report Date:** 06/07/22

SAMPLE RESULTS

Lab ID: L2227105-05 Date Collected: 05/20/22 10:00

Client ID: TROY-CF-3 Date Received: 05/20/22

Sample Location: 8000 MAIN STREET, TROY NY 12180 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	96		25-120
Phenol-d6	99		10-120
Nitrobenzene-d5	87		23-120
2-Fluorobiphenyl	102		30-120
2,4,6-Tribromophenol	103		10-136
4-Terphenyl-d14	89		18-120

Project Name: TROY (WATER STREET) PHASE 1A
Lab Number: L2227105
Project Number: TROY (WATER STREET)
Report Date: 06/07/22

SAMPLE RESULTS

Lab ID: L2227105-07
Client ID: TROY-CF-4
Sample Location: 8000 MAIN STREET, TROY NY 12180

Date Collected: 05/20/22 10:30
Date Received: 05/20/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/31/22 17:36
Analyst: IM
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 05/29/22 23:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	--	1
Hexachlorobenzene	ND		ug/kg	110	--	1
Fluoranthene	ND		ug/kg	110	--	1
Naphthalene	ND		ug/kg	180	--	1
Benzo(a)anthracene	ND		ug/kg	110	--	1
Benzo(a)pyrene	ND		ug/kg	140	--	1
Benzo(b)fluoranthene	ND		ug/kg	110	--	1
Benzo(k)fluoranthene	ND		ug/kg	110	--	1
Chrysene	ND		ug/kg	110	--	1
Acenaphthylene	ND		ug/kg	140	--	1
Anthracene	ND		ug/kg	110	--	1
Benzo(ghi)perylene	ND		ug/kg	140	--	1
Fluorene	ND		ug/kg	180	--	1
Phenanthrene	ND		ug/kg	110	--	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	--	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	--	1
Pyrene	ND		ug/kg	110	--	1
Dibenzofuran	ND		ug/kg	180	--	1
Pentachlorophenol	ND		ug/kg	140	--	1
Phenol	ND		ug/kg	180	--	1
2-Methylphenol	ND		ug/kg	180	--	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	--	1

Project Name: TROY (WATER STREET) PHASE 1A **Lab Number:** L2227105

Project Number: TROY (WATER STREET) **Report Date:** 06/07/22

SAMPLE RESULTS

Lab ID: L2227105-07 Date Collected: 05/20/22 10:30

Client ID: TROY-CF-4 Date Received: 05/20/22

Sample Location: 8000 MAIN STREET, TROY NY 12180 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	81		25-120
Phenol-d6	82		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	86		30-120
2,4,6-Tribromophenol	113		10-136
4-Terphenyl-d14	104		18-120

Project Name: TROY (WATER STREET) PHASE 1A
Lab Number: L2227105
Project Number: TROY (WATER STREET)
Report Date: 06/07/22

SAMPLE RESULTS

Lab ID: L2227105-09
Client ID: TROY-CF-5
Sample Location: 8000 MAIN STREET, TROY NY 12180

Date Collected: 05/20/22 11:00
Date Received: 05/20/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/31/22 18:00
Analyst: IM
Percent Solids: 94%

Extraction Method: EPA 3546
Extraction Date: 05/29/22 23:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	--	1
Hexachlorobenzene	ND		ug/kg	100	--	1
Fluoranthene	ND		ug/kg	100	--	1
Naphthalene	ND		ug/kg	180	--	1
Benzo(a)anthracene	ND		ug/kg	100	--	1
Benzo(a)pyrene	ND		ug/kg	140	--	1
Benzo(b)fluoranthene	ND		ug/kg	100	--	1
Benzo(k)fluoranthene	ND		ug/kg	100	--	1
Chrysene	ND		ug/kg	100	--	1
Acenaphthylene	ND		ug/kg	140	--	1
Anthracene	ND		ug/kg	100	--	1
Benzo(ghi)perylene	ND		ug/kg	140	--	1
Fluorene	ND		ug/kg	180	--	1
Phenanthrene	ND		ug/kg	100	--	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	--	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	--	1
Pyrene	ND		ug/kg	100	--	1
Dibenzofuran	ND		ug/kg	180	--	1
Pentachlorophenol	ND		ug/kg	140	--	1
Phenol	ND		ug/kg	180	--	1
2-Methylphenol	ND		ug/kg	180	--	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	--	1

Project Name: TROY (WATER STREET) PHASE 1A **Lab Number:** L2227105

Project Number: TROY (WATER STREET) **Report Date:** 06/07/22

SAMPLE RESULTS

Lab ID: L2227105-09 Date Collected: 05/20/22 11:00

Client ID: TROY-CF-5 Date Received: 05/20/22

Sample Location: 8000 MAIN STREET, TROY NY 12180 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	93		25-120
Phenol-d6	97		10-120
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	95		30-120
2,4,6-Tribromophenol	105		10-136
4-Terphenyl-d14	98		18-120

Project Name: TROY (WATER STREET) PHASE 1A
Project Number: TROY (WATER STREET)
Lab Number: L2227105
Report Date: 06/07/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/31/22 14:02
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 05/29/22 23:34

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,03,05,07,09 Batch: WG1644306-1					
Acenaphthene	ND		ug/kg	130	--
Hexachlorobenzene	ND		ug/kg	98	--
Fluoranthene	ND		ug/kg	98	--
Naphthalene	ND		ug/kg	160	--
Benzo(a)anthracene	ND		ug/kg	98	--
Benzo(a)pyrene	ND		ug/kg	130	--
Benzo(b)fluoranthene	ND		ug/kg	98	--
Benzo(k)fluoranthene	ND		ug/kg	98	--
Chrysene	ND		ug/kg	98	--
Acenaphthylene	ND		ug/kg	130	--
Anthracene	ND		ug/kg	98	--
Benzo(ghi)perylene	ND		ug/kg	130	--
Fluorene	ND		ug/kg	160	--
Phenanthrene	ND		ug/kg	98	--
Dibenzo(a,h)anthracene	ND		ug/kg	98	--
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	--
Pyrene	ND		ug/kg	98	--
Dibenzofuran	ND		ug/kg	160	--
Pentachlorophenol	ND		ug/kg	130	--
Phenol	ND		ug/kg	160	--
2-Methylphenol	ND		ug/kg	160	--
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	--

Project Name: TROY (WATER STREET) PHASE 1A
Project Number: TROY (WATER STREET)
Lab Number: L2227105
Report Date: 06/07/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/31/22 14:02
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 05/29/22 23:34

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,03,05,07,09 Batch: WG1644306-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	98		25-120
Phenol-d6	100		10-120
Nitrobenzene-d5	89		23-120
2-Fluorobiphenyl	95		30-120
2,4,6-Tribromophenol	109		10-136
4-Terphenyl-d14	100		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: TROY (WATER STREET) PHASE 1A

Project Number: TROY (WATER STREET)

Lab Number: L2227105

Report Date: 06/07/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03,05,07,09 Batch: WG1644306-2 WG1644306-3								
Acenaphthene	90		80		31-137	12		50
Hexachlorobenzene	89		77		40-140	14		50
Fluoranthene	94		83		40-140	12		50
Naphthalene	90		78		40-140	14		50
Benzo(a)anthracene	93		83		40-140	11		50
Benzo(a)pyrene	101		87		40-140	15		50
Benzo(b)fluoranthene	94		82		40-140	14		50
Benzo(k)fluoranthene	89		78		40-140	13		50
Chrysene	91		80		40-140	13		50
Acenaphthylene	96		85		40-140	12		50
Anthracene	92		82		40-140	11		50
Benzo(ghi)perylene	88		81		40-140	8		50
Fluorene	93		80		40-140	15		50
Phenanthrene	93		80		40-140	15		50
Dibenzo(a,h)anthracene	88		80		40-140	10		50
Indeno(1,2,3-cd)pyrene	96		88		40-140	9		50
Pyrene	94		82		35-142	14		50
Dibenzofuran	93		83		40-140	11		50
Pentachlorophenol	87		76		17-109	13		50
Phenol	88		82		26-90	7		50
2-Methylphenol	90		82		30-130.	9		50
3-Methylphenol/4-Methylphenol	98		89		30-130	10		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: TROY (WATER STREET) PHASE 1A

Project Number: TROY (WATER STREET)

Lab Number: L2227105

Report Date: 06/07/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03,05,07,09 Batch: WG1644306-2 WG1644306-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	102		94		25-120
Phenol-d6	107		98		10-120
Nitrobenzene-d5	94		87		23-120
2-Fluorobiphenyl	105		95		30-120
2,4,6-Tribromophenol	115		104		10-136
4-Terphenyl-d14	106		93		18-120

PCBS

Project Name: TROY (WATER STREET) PHASE 1A
Lab Number: L2227105
Project Number: TROY (WATER STREET)
Report Date: 06/07/22

SAMPLE RESULTS

Lab ID: L2227105-01
Client ID: TROY-CF-1
Sample Location: 8000 MAIN STREET, TROY NY 12180

Date Collected: 05/20/22 09:00
Date Received: 05/20/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 06/01/22 20:57
Analyst: JM
Percent Solids: 94%

Extraction Method: EPA 3546
Extraction Date: 06/01/22 11:14
Cleanup Method: EPA 3665A
Cleanup Date: 06/01/22
Cleanup Method: EPA 3660B
Cleanup Date: 06/01/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0341	--	1	A
Aroclor 1221	ND		mg/kg	0.0341	--	1	A
Aroclor 1232	ND		mg/kg	0.0341	--	1	A
Aroclor 1242	ND		mg/kg	0.0341	--	1	A
Aroclor 1248	ND		mg/kg	0.0341	--	1	A
Aroclor 1254	ND		mg/kg	0.0341	--	1	A
Aroclor 1260	ND		mg/kg	0.0341	--	1	A
Aroclor 1262	ND		mg/kg	0.0341	--	1	A
Aroclor 1268	ND		mg/kg	0.0341	--	1	A
PCBs, Total	ND		mg/kg	0.0341	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	49		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	51		30-150	B

Project Name: TROY (WATER STREET) PHASE 1A
Lab Number: L2227105
Project Number: TROY (WATER STREET)
Report Date: 06/07/22

SAMPLE RESULTS

Lab ID: L2227105-03
Client ID: TROY-CF-2
Sample Location: 8000 MAIN STREET, TROY NY 12180

Date Collected: 05/20/22 09:30
Date Received: 05/20/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 06/01/22 21:10
Analyst: JM
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 06/01/22 11:14
Cleanup Method: EPA 3665A
Cleanup Date: 06/01/22
Cleanup Method: EPA 3660B
Cleanup Date: 06/01/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0348	--	1	A
Aroclor 1221	ND		mg/kg	0.0348	--	1	A
Aroclor 1232	ND		mg/kg	0.0348	--	1	A
Aroclor 1242	ND		mg/kg	0.0348	--	1	A
Aroclor 1248	ND		mg/kg	0.0348	--	1	A
Aroclor 1254	ND		mg/kg	0.0348	--	1	A
Aroclor 1260	ND		mg/kg	0.0348	--	1	A
Aroclor 1262	ND		mg/kg	0.0348	--	1	A
Aroclor 1268	ND		mg/kg	0.0348	--	1	A
PCBs, Total	ND		mg/kg	0.0348	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	53		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	57		30-150	B

Project Name: TROY (WATER STREET) PHASE 1A
Lab Number: L2227105
Project Number: TROY (WATER STREET)
Report Date: 06/07/22

SAMPLE RESULTS

Lab ID: L2227105-05
Client ID: TROY-CF-3
Sample Location: 8000 MAIN STREET, TROY NY 12180

Date Collected: 05/20/22 10:00
Date Received: 05/20/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 06/01/22 21:22
Analyst: JM
Percent Solids: 94%

Extraction Method: EPA 3546
Extraction Date: 06/01/22 11:14
Cleanup Method: EPA 3665A
Cleanup Date: 06/01/22
Cleanup Method: EPA 3660B
Cleanup Date: 06/01/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0351	--	1	A
Aroclor 1221	ND		mg/kg	0.0351	--	1	A
Aroclor 1232	ND		mg/kg	0.0351	--	1	A
Aroclor 1242	ND		mg/kg	0.0351	--	1	A
Aroclor 1248	ND		mg/kg	0.0351	--	1	A
Aroclor 1254	ND		mg/kg	0.0351	--	1	A
Aroclor 1260	ND		mg/kg	0.0351	--	1	A
Aroclor 1262	ND		mg/kg	0.0351	--	1	A
Aroclor 1268	ND		mg/kg	0.0351	--	1	A
PCBs, Total	ND		mg/kg	0.0351	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	51		30-150	A
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	56		30-150	B

Project Name: TROY (WATER STREET) PHASE 1A
Lab Number: L2227105
Project Number: TROY (WATER STREET)
Report Date: 06/07/22

SAMPLE RESULTS

Lab ID: L2227105-07
Client ID: TROY-CF-4
Sample Location: 8000 MAIN STREET, TROY NY 12180

Date Collected: 05/20/22 10:30
Date Received: 05/20/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 06/01/22 22:14
Analyst: JM
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 06/01/22 11:14
Cleanup Method: EPA 3665A
Cleanup Date: 06/01/22
Cleanup Method: EPA 3660B
Cleanup Date: 06/01/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0349	--	1	A
Aroclor 1221	ND		mg/kg	0.0349	--	1	A
Aroclor 1232	ND		mg/kg	0.0349	--	1	A
Aroclor 1242	ND		mg/kg	0.0349	--	1	A
Aroclor 1248	ND		mg/kg	0.0349	--	1	A
Aroclor 1254	ND		mg/kg	0.0349	--	1	A
Aroclor 1260	ND		mg/kg	0.0349	--	1	A
Aroclor 1262	ND		mg/kg	0.0349	--	1	A
Aroclor 1268	ND		mg/kg	0.0349	--	1	A
PCBs, Total	ND		mg/kg	0.0349	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	A
Decachlorobiphenyl	54		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	58		30-150	B

Project Name: TROY (WATER STREET) PHASE 1A
Lab Number: L2227105
Project Number: TROY (WATER STREET)
Report Date: 06/07/22

SAMPLE RESULTS

Lab ID: L2227105-09
Client ID: TROY-CF-5
Sample Location: 8000 MAIN STREET, TROY NY 12180

Date Collected: 05/20/22 11:00
Date Received: 05/20/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 06/01/22 21:35
Analyst: JM
Percent Solids: 94%

Extraction Method: EPA 3546
Extraction Date: 06/01/22 11:14
Cleanup Method: EPA 3665A
Cleanup Date: 06/01/22
Cleanup Method: EPA 3660B
Cleanup Date: 06/01/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0345	--	1	A
Aroclor 1221	ND		mg/kg	0.0345	--	1	A
Aroclor 1232	ND		mg/kg	0.0345	--	1	A
Aroclor 1242	ND		mg/kg	0.0345	--	1	A
Aroclor 1248	ND		mg/kg	0.0345	--	1	A
Aroclor 1254	ND		mg/kg	0.0345	--	1	A
Aroclor 1260	ND		mg/kg	0.0345	--	1	A
Aroclor 1262	ND		mg/kg	0.0345	--	1	A
Aroclor 1268	ND		mg/kg	0.0345	--	1	A
PCBs, Total	ND		mg/kg	0.0345	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	A
Decachlorobiphenyl	54		30-150	A
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	59		30-150	B

Project Name: TROY (WATER STREET) PHASE 1A
Project Number: TROY (WATER STREET)
Lab Number: L2227105
Report Date: 06/07/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 06/01/22 20:18
Analyst: JM

Extraction Method: EPA 3546
Extraction Date: 06/01/22 11:14
Cleanup Method: EPA 3665A
Cleanup Date: 06/01/22
Cleanup Method: EPA 3660B
Cleanup Date: 06/01/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01,03,05,07,09 Batch: WG1645193-1						
Aroclor 1016	ND		mg/kg	0.0315	--	A
Aroclor 1221	ND		mg/kg	0.0315	--	A
Aroclor 1232	ND		mg/kg	0.0315	--	A
Aroclor 1242	ND		mg/kg	0.0315	--	A
Aroclor 1248	ND		mg/kg	0.0315	--	A
Aroclor 1254	ND		mg/kg	0.0315	--	A
Aroclor 1260	ND		mg/kg	0.0315	--	A
Aroclor 1262	ND		mg/kg	0.0315	--	A
Aroclor 1268	ND		mg/kg	0.0315	--	A
PCBs, Total	ND		mg/kg	0.0315	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	54		30-150	A
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	55		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: TROY (WATER STREET) PHASE 1A

Project Number: TROY (WATER STREET)

Lab Number: L2227105

Report Date: 06/07/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01,03,05,07,09 Batch: WG1645193-2 WG1645193-3									
Aroclor 1016	70		74		40-140	6		50	A
Aroclor 1260	57		60		40-140	5		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		76		30-150	A
Decachlorobiphenyl	52		55		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		77		30-150	B
Decachlorobiphenyl	55		58		30-150	B

PESTICIDES

Project Name: TROY (WATER STREET) PHASE 1A
Lab Number: L2227105
Project Number: TROY (WATER STREET)
Report Date: 06/07/22

SAMPLE RESULTS

Lab ID: L2227105-01
Client ID: TROY-CF-1
Sample Location: 8000 MAIN STREET, TROY NY 12180

Date Collected: 05/20/22 09:00
Date Received: 05/20/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 06/02/22 10:52
Analyst: EJL
Percent Solids: 94%

Extraction Method: EPA 3546
Extraction Date: 05/30/22 02:29
Cleanup Method: EPA 3620B
Cleanup Date: 05/31/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/31/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.68	--	1	A
Lindane	ND		ug/kg	0.700	--	1	A
Alpha-BHC	ND		ug/kg	0.700	--	1	A
Beta-BHC	ND		ug/kg	1.68	--	1	A
Heptachlor	ND		ug/kg	0.840	--	1	A
Aldrin	ND		ug/kg	1.68	--	1	A
Endrin	ND		ug/kg	0.700	--	1	A
Dieldrin	ND		ug/kg	1.05	--	1	A
4,4'-DDE	ND		ug/kg	1.68	--	1	A
4,4'-DDD	ND		ug/kg	1.68	--	1	A
4,4'-DDT	ND		ug/kg	3.15	--	1	A
Endosulfan I	ND		ug/kg	1.68	--	1	A
Endosulfan II	ND		ug/kg	1.68	--	1	A
Endosulfan sulfate	ND		ug/kg	0.700	--	1	A
cis-Chlordane	ND		ug/kg	2.10	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	92		30-150	A
Decachlorobiphenyl	134		30-150	A
2,4,5,6-Tetrachloro-m-xylene	91		30-150	B
Decachlorobiphenyl	121		30-150	B

Project Name: TROY (WATER STREET) PHASE 1A
Lab Number: L2227105
Project Number: TROY (WATER STREET)
Report Date: 06/07/22

SAMPLE RESULTS

Lab ID: L2227105-03
Client ID: TROY-CF-2
Sample Location: 8000 MAIN STREET, TROY NY 12180

Date Collected: 05/20/22 09:30
Date Received: 05/20/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 06/02/22 11:02
Analyst: EJL
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 05/30/22 02:29
Cleanup Method: EPA 3620B
Cleanup Date: 05/31/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/31/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.69	--	1	A
Lindane	ND		ug/kg	0.703	--	1	A
Alpha-BHC	ND		ug/kg	0.703	--	1	A
Beta-BHC	ND		ug/kg	1.69	--	1	A
Heptachlor	ND		ug/kg	0.844	--	1	A
Aldrin	ND		ug/kg	1.69	--	1	A
Endrin	ND		ug/kg	0.703	--	1	A
Dieldrin	ND		ug/kg	1.06	--	1	A
4,4'-DDE	ND		ug/kg	1.69	--	1	A
4,4'-DDD	ND		ug/kg	1.69	--	1	A
4,4'-DDT	ND		ug/kg	3.16	--	1	A
Endosulfan I	ND		ug/kg	1.69	--	1	A
Endosulfan II	ND		ug/kg	1.69	--	1	A
Endosulfan sulfate	ND		ug/kg	0.703	--	1	A
cis-Chlordane	ND		ug/kg	2.11	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	86		30-150	A
Decachlorobiphenyl	118		30-150	A
2,4,5,6-Tetrachloro-m-xylene	86		30-150	B
Decachlorobiphenyl	114		30-150	B

Project Name: TROY (WATER STREET) PHASE 1A
Lab Number: L2227105
Project Number: TROY (WATER STREET)
Report Date: 06/07/22

SAMPLE RESULTS

Lab ID: L2227105-05
Client ID: TROY-CF-3
Sample Location: 8000 MAIN STREET, TROY NY 12180

Date Collected: 05/20/22 10:00
Date Received: 05/20/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 06/02/22 11:13
Analyst: EJL
Percent Solids: 94%

Extraction Method: EPA 3546
Extraction Date: 05/30/22 02:29
Cleanup Method: EPA 3620B
Cleanup Date: 05/31/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/31/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.66	--	1	A
Lindane	ND		ug/kg	0.692	--	1	A
Alpha-BHC	ND		ug/kg	0.692	--	1	A
Beta-BHC	ND		ug/kg	1.66	--	1	A
Heptachlor	ND		ug/kg	0.830	--	1	A
Aldrin	ND		ug/kg	1.66	--	1	A
Endrin	ND		ug/kg	0.692	--	1	A
Dieldrin	ND		ug/kg	1.04	--	1	A
4,4'-DDE	ND		ug/kg	1.66	--	1	A
4,4'-DDD	ND		ug/kg	1.66	--	1	A
4,4'-DDT	ND		ug/kg	3.11	--	1	A
Endosulfan I	ND		ug/kg	1.66	--	1	A
Endosulfan II	ND		ug/kg	1.66	--	1	A
Endosulfan sulfate	ND		ug/kg	0.692	--	1	A
cis-Chlordane	ND		ug/kg	2.08	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	86		30-150	A
Decachlorobiphenyl	126		30-150	A
2,4,5,6-Tetrachloro-m-xylene	88		30-150	B
Decachlorobiphenyl	120		30-150	B

Project Name: TROY (WATER STREET) PHASE 1A
Lab Number: L2227105
Project Number: TROY (WATER STREET)
Report Date: 06/07/22

SAMPLE RESULTS

Lab ID: L2227105-07
Client ID: TROY-CF-4
Sample Location: 8000 MAIN STREET, TROY NY 12180

Date Collected: 05/20/22 10:30
Date Received: 05/20/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 06/02/22 11:24
Analyst: EJL
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 05/30/22 02:29
Cleanup Method: EPA 3620B
Cleanup Date: 05/31/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/31/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.69	--	1	A
Lindane	ND		ug/kg	0.706	--	1	A
Alpha-BHC	ND		ug/kg	0.706	--	1	A
Beta-BHC	ND		ug/kg	1.69	--	1	A
Heptachlor	ND		ug/kg	0.847	--	1	A
Aldrin	ND		ug/kg	1.69	--	1	A
Endrin	ND		ug/kg	0.706	--	1	A
Dieldrin	ND		ug/kg	1.06	--	1	A
4,4'-DDE	ND		ug/kg	1.69	--	1	A
4,4'-DDD	ND		ug/kg	1.69	--	1	A
4,4'-DDT	ND		ug/kg	3.18	--	1	A
Endosulfan I	ND		ug/kg	1.69	--	1	A
Endosulfan II	ND		ug/kg	1.69	--	1	A
Endosulfan sulfate	ND		ug/kg	0.706	--	1	A
cis-Chlordane	ND		ug/kg	2.12	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	97		30-150	A
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	93		30-150	B

Project Name: TROY (WATER STREET) PHASE 1A
Lab Number: L2227105
Project Number: TROY (WATER STREET)
Report Date: 06/07/22

SAMPLE RESULTS

Lab ID: L2227105-09
Client ID: TROY-CF-5
Sample Location: 8000 MAIN STREET, TROY NY 12180

Date Collected: 05/20/22 11:00
Date Received: 05/20/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 06/02/22 11:35
Analyst: EJL
Percent Solids: 94%

Extraction Method: EPA 3546
Extraction Date: 05/30/22 02:29
Cleanup Method: EPA 3620B
Cleanup Date: 05/31/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/31/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.66	--	1	A
Lindane	ND		ug/kg	0.693	--	1	A
Alpha-BHC	ND		ug/kg	0.693	--	1	A
Beta-BHC	ND		ug/kg	1.66	--	1	A
Heptachlor	ND		ug/kg	0.832	--	1	A
Aldrin	ND		ug/kg	1.66	--	1	A
Endrin	ND		ug/kg	0.693	--	1	A
Dieldrin	ND		ug/kg	1.04	--	1	A
4,4'-DDE	ND		ug/kg	1.66	--	1	A
4,4'-DDD	ND		ug/kg	1.66	--	1	A
4,4'-DDT	ND		ug/kg	3.12	--	1	A
Endosulfan I	ND		ug/kg	1.66	--	1	A
Endosulfan II	ND		ug/kg	1.66	--	1	A
Endosulfan sulfate	ND		ug/kg	0.693	--	1	A
cis-Chlordane	ND		ug/kg	2.08	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	89		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	86		30-150	B

Project Name: TROY (WATER STREET) PHASE 1A
Project Number: TROY (WATER STREET)
Lab Number: L2227105
Report Date: 06/07/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 06/02/22 12:52
Analyst: EJL

Extraction Method: EPA 3546
Extraction Date: 05/30/22 02:29
Cleanup Method: EPA 3620B
Cleanup Date: 05/31/22
Cleanup Method: EPA 3660B
Cleanup Date: 05/31/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01,03,05,07,09 Batch: WG1644313-1						
Delta-BHC	ND		ug/kg	1.56	--	A
Lindane	ND		ug/kg	0.648	--	A
Alpha-BHC	ND		ug/kg	0.648	--	A
Beta-BHC	ND		ug/kg	1.56	--	A
Heptachlor	ND		ug/kg	0.778	--	A
Aldrin	ND		ug/kg	1.56	--	A
Endrin	ND		ug/kg	0.648	--	A
Dieldrin	ND		ug/kg	0.973	--	A
4,4'-DDE	ND		ug/kg	1.56	--	A
4,4'-DDD	ND		ug/kg	1.56	--	A
4,4'-DDT	ND		ug/kg	2.92	--	A
Endosulfan I	ND		ug/kg	1.56	--	A
Endosulfan II	ND		ug/kg	1.56	--	A
Endosulfan sulfate	ND		ug/kg	0.648	--	A
cis-Chlordane	ND		ug/kg	1.94	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	103		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	99		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: TROY (WATER STREET) PHASE 1A

Project Number: TROY (WATER STREET)

Lab Number: L2227105

Report Date: 06/07/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01,03,05,07,09 Batch: WG1644313-2 WG1644313-3									
Delta-BHC	82		68		30-150	19		30	A
Lindane	79		69		30-150	14		30	A
Alpha-BHC	81		70		30-150	15		30	A
Beta-BHC	77		69		30-150	11		30	A
Heptachlor	85		74		30-150	14		30	A
Aldrin	79		70		30-150	12		30	A
Endrin	81		74		30-150	9		30	A
Dieldrin	83		76		30-150	9		30	A
4,4'-DDE	78		70		30-150	11		30	A
4,4'-DDD	83		76		30-150	9		30	A
4,4'-DDT	83		75		30-150	10		30	A
Endosulfan I	75		68		30-150	10		30	A
Endosulfan II	77		70		30-150	10		30	A
Endosulfan sulfate	65		55		30-150	17		30	A
cis-Chlordane	68		63		30-150	8		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		67		30-150	A
Decachlorobiphenyl	116		101		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		68		30-150	B
Decachlorobiphenyl	110		96		30-150	B

INORGANICS
&
MISCELLANEOUS

Project Name: TROY (WATER STREET) PHASE 1A
Project Number: TROY (WATER STREET)
Lab Number: L2227105
Report Date: 06/07/22

SAMPLE RESULTS

Lab ID: L2227105-01
Client ID: TROY-CF-1
Sample Location: 8000 MAIN STREET, TROY NY 12180
Sample Depth:
Matrix: Soil

Date Collected: 05/20/22 09:00
Date Received: 05/20/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.5		%	0.100	NA	1	-	05/23/22 17:36	121,2540G	TR
Cyanide, Total	ND		mg/kg	1.0	--	1	06/01/22 18:40	06/02/22 09:26	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.856	--	1	05/26/22 09:50	05/26/22 18:25	1,7196A	NL

Project Name: TROY (WATER STREET) PHASE 1A
Project Number: TROY (WATER STREET)
Lab Number: L2227105
Report Date: 06/07/22

SAMPLE RESULTS

Lab ID: L2227105-02
Client ID: TROY-CF-1A
Sample Location: 8000 MAIN STREET, TROY NY 12180
Sample Depth:
Matrix: Soil

Date Collected: 05/20/22 09:15
Date Received: 05/20/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.7		%	0.100	NA	1	-	05/23/22 17:36	121,2540G	TR

Project Name: TROY (WATER STREET) PHASE 1A
Project Number: TROY (WATER STREET)
Lab Number: L2227105
Report Date: 06/07/22

SAMPLE RESULTS

Lab ID: L2227105-03
Client ID: TROY-CF-2
Sample Location: 8000 MAIN STREET, TROY NY 12180
Sample Depth:
Matrix: Soil
Date Collected: 05/20/22 09:30
Date Received: 05/20/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.8		%	0.100	NA	1	-	05/23/22 17:36	121,2540G	TR
Cyanide, Total	ND		mg/kg	1.0	--	1	06/01/22 18:40	06/02/22 09:27	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.862	--	1	05/26/22 09:50	05/26/22 18:25	1,7196A	NL

Project Name: TROY (WATER STREET) PHASE 1A
Project Number: TROY (WATER STREET)
Lab Number: L2227105
Report Date: 06/07/22

SAMPLE RESULTS

Lab ID: L2227105-04
Client ID: TROY-CF-2A
Sample Location: 8000 MAIN STREET, TROY NY 12180
Sample Depth:
Matrix: Soil

Date Collected: 05/20/22 09:45
Date Received: 05/20/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.4		%	0.100	NA	1	-	05/23/22 17:36	121,2540G	TR

Project Name: TROY (WATER STREET) PHASE 1A
Project Number: TROY (WATER STREET)
Lab Number: L2227105
Report Date: 06/07/22

SAMPLE RESULTS

Lab ID: L2227105-05
Client ID: TROY-CF-3
Sample Location: 8000 MAIN STREET, TROY NY 12180
Sample Depth:
Matrix: Soil

Date Collected: 05/20/22 10:00
Date Received: 05/20/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.8		%	0.100	NA	1	-	05/23/22 17:36	121,2540G	TR
Cyanide, Total	ND		mg/kg	1.0	--	1	06/01/22 18:40	06/02/22 09:28	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.853	--	1	05/26/22 09:50	05/26/22 18:25	1,7196A	NL

Project Name: TROY (WATER STREET) PHASE 1A
Project Number: TROY (WATER STREET)
Lab Number: L2227105
Report Date: 06/07/22

SAMPLE RESULTS

Lab ID: L2227105-06
Client ID: TROY-CF-3A
Sample Location: 8000 MAIN STREET, TROY NY 12180
Sample Depth:
Matrix: Soil

Date Collected: 05/20/22 10:15
Date Received: 05/20/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.3		%	0.100	NA	1	-	05/23/22 17:36	121,2540G	TR

Project Name: TROY (WATER STREET) PHASE 1A
Project Number: TROY (WATER STREET)
Lab Number: L2227105
Report Date: 06/07/22

SAMPLE RESULTS

Lab ID: L2227105-07
Client ID: TROY-CF-4
Sample Location: 8000 MAIN STREET, TROY NY 12180
Sample Depth:
Matrix: Soil

Date Collected: 05/20/22 10:30
Date Received: 05/20/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.6		%	0.100	NA	1	-	05/23/22 17:36	121,2540G	TR
Cyanide, Total	ND		mg/kg	1.0	--	1	06/01/22 18:40	06/02/22 09:31	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.883	--	1	05/26/22 09:50	05/26/22 18:25	1,7196A	NL

Project Name: TROY (WATER STREET) PHASE 1A
Project Number: TROY (WATER STREET)
Lab Number: L2227105
Report Date: 06/07/22

SAMPLE RESULTS

Lab ID: L2227105-08
Client ID: TROY-CF-4A
Sample Location: 8000 MAIN STREET, TROY NY 12180
Sample Depth:
Matrix: Soil

Date Collected: 05/20/22 10:45
Date Received: 05/20/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.2		%	0.100	NA	1	-	05/23/22 17:36	121,2540G	TR

Project Name: TROY (WATER STREET) PHASE 1A
Project Number: TROY (WATER STREET)
Lab Number: L2227105
Report Date: 06/07/22

SAMPLE RESULTS

Lab ID: L2227105-09
Client ID: TROY-CF-5
Sample Location: 8000 MAIN STREET, TROY NY 12180
Sample Depth:
Matrix: Soil

Date Collected: 05/20/22 11:00
Date Received: 05/20/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.5		%	0.100	NA	1	-	05/23/22 17:36	121,2540G	TR
Cyanide, Total	ND		mg/kg	1.0	--	1	06/01/22 18:40	06/02/22 09:32	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.856	--	1	05/26/22 09:50	05/26/22 18:25	1,7196A	NL

Project Name: TROY (WATER STREET) PHASE 1A
Project Number: TROY (WATER STREET)
Lab Number: L2227105
Report Date: 06/07/22

SAMPLE RESULTS

Lab ID: L2227105-10
Client ID: TROY-CF-5A
Sample Location: 8000 MAIN STREET, TROY NY 12180
Sample Depth:
Matrix: Soil

Date Collected: 05/20/22 11:15
Date Received: 05/20/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.2		%	0.100	NA	1	-	05/23/22 17:36	121,2540G	TR

Project Name: TROY (WATER STREET) PHASE 1A
Project Number: TROY (WATER STREET)
Lab Number: L2227105
Report Date: 06/07/22

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01,03,05,07,09 Batch: WG1643357-1										
Chromium, Hexavalent	ND		mg/kg	0.800	--	1	05/26/22 09:50	05/26/22 18:25	1,7196A	NL
General Chemistry - Westborough Lab for sample(s): 01,03,05,07,09 Batch: WG1645368-1										
Cyanide, Total	ND		mg/kg	1.0	--	1	06/01/22 18:40	06/02/22 09:22	1,9010C/9012B	CS

Lab Control Sample Analysis

Batch Quality Control

Project Name: TROY (WATER STREET) PHASE 1A

Project Number: TROY (WATER STREET)

Lab Number: L2227105

Report Date: 06/07/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01,03,05,07,09 Batch: WG1643357-2								
Chromium, Hexavalent	92		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01,03,05,07,09 Batch: WG1645368-2 WG1645368-3								
Cyanide, Total	**43**	Q	87		80-120	**51**	Q	35

Matrix Spike Analysis
Batch Quality Control

Project Name: TROY (WATER STREET) PHASE 1A
Project Number: TROY (WATER STREET)

Lab Number: L2227105
Report Date: 06/07/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01,03,05,07,09 QC Batch ID: WG1643357-4 QC Sample: L2227105-01 Client ID: TROY-CF-1												
Chromium, Hexavalent	ND	1160	1100	95		-	-		75-125	-		20
General Chemistry - Westborough Lab Associated sample(s): 01,03,05,07,09 QC Batch ID: WG1645368-4 WG1645368-5 QC Sample: L2227116-26 Client ID: MS Sample												
Cyanide, Total	ND	10	7.3	**73**	Q	12	120		75-125	**49**	Q	35

Lab Duplicate Analysis

Batch Quality Control

Project Name: TROY (WATER STREET) PHASE 1A

Project Number: TROY (WATER STREET)

Lab Number: L2227105

Report Date: 06/07/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1641893-1 QC Sample: L2226534-02 Client ID: DUP Sample						
Solids, Total	96.4	96.3	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 01,03,05,07,09 QC Batch ID: WG1643357-6 QC Sample: L2227105-01 Client ID: TROY-CF-1						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: TROY (WATER STREET) PHASE 1A
Project Number: TROY (WATER STREET)

Lab Number: L2227105
Report Date: 06/07/22

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2227105-01A	Vial MeOH preserved	B	NA		3.7	Y	Absent		HOLD-8260HLW(14)
L2227105-01B	Vial water preserved	B	NA		3.7	Y	Absent	**23-MAY-22 16:52**	HOLD-8260HLW(14)
L2227105-01C	Vial water preserved	B	NA		3.7	Y	Absent	**23-MAY-22 16:52**	HOLD-8260HLW(14)
L2227105-01D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.7	Y	Absent		SUB-TAL 6010(180)
L2227105-01E	Glass 120ml/4oz unpreserved	A	NA		3.7	Y	Absent		HEXCR-7196(30)
L2227105-01F	Glass 500ml/16oz unpreserved	A	NA		3.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082-PPM(365)
L2227105-01G	Plastic 2oz unpreserved for TS	A	NA		3.7	Y	Absent		TS(7)
L2227105-02A	Vial MeOH preserved	B	NA		3.7	Y	Absent		HOLD-8260HLW(14)
L2227105-02B	Vial water preserved	B	NA		3.7	Y	Absent	**23-MAY-22 16:52**	HOLD-8260HLW(14)
L2227105-02C	Vial water preserved	B	NA		3.7	Y	Absent	**23-MAY-22 16:52**	HOLD-8260HLW(14)
L2227105-02D	Plastic 2oz unpreserved for TS	B	NA		3.7	Y	Absent		TS(7)
L2227105-03A	Vial MeOH preserved	B	NA		3.7	Y	Absent		HOLD-8260HLW(14)
L2227105-03B	Vial water preserved	B	NA		3.7	Y	Absent	**23-MAY-22 16:52**	HOLD-8260HLW(14)
L2227105-03C	Vial water preserved	B	NA		3.7	Y	Absent	**23-MAY-22 16:52**	HOLD-8260HLW(14)
L2227105-03D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.7	Y	Absent		SUB-TAL 6010(180)
L2227105-03E	Glass 120ml/4oz unpreserved	A	NA		3.7	Y	Absent		HEXCR-7196(30)
L2227105-03F	Glass 500ml/16oz unpreserved	A	NA		3.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082-PPM(365)
L2227105-03G	Plastic 2oz unpreserved for TS	A	NA		3.7	Y	Absent		TS(7)
L2227105-04A	Vial MeOH preserved	B	NA		3.7	Y	Absent		HOLD-8260HLW(14)
L2227105-04B	Vial water preserved	B	NA		3.7	Y	Absent	**23-MAY-22 16:52**	HOLD-8260HLW(14)
L2227105-04C	Vial water preserved	B	NA		3.7	Y	Absent	**23-MAY-22 16:52**	HOLD-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: TROY (WATER STREET) PHASE 1A
Project Number: TROY (WATER STREET)

Lab Number: L2227105
Report Date: 06/07/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2227105-04D	Plastic 2oz unpreserved for TS	B	NA		3.7	Y	Absent		TS(7)
L2227105-05A	Vial MeOH preserved	B	NA		3.7	Y	Absent		HOLD-8260HLW(14)
L2227105-05B	Vial water preserved	B	NA		3.7	Y	Absent	**23-MAY-22 16:52**	HOLD-8260HLW(14)
L2227105-05C	Vial water preserved	B	NA		3.7	Y	Absent	**23-MAY-22 16:52**	HOLD-8260HLW(14)
L2227105-05D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.7	Y	Absent		SUB-TAL 6010(180)
L2227105-05E	Glass 120ml/4oz unpreserved	A	NA		3.7	Y	Absent		HEXCR-7196(30)
L2227105-05F	Glass 500ml/16oz unpreserved	A	NA		3.7	Y	Absent		TCN-9010(14),NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082-PPM(365)
L2227105-05G	Plastic 2oz unpreserved for TS	A	NA		3.7	Y	Absent		TS(7)
L2227105-06A	Vial MeOH preserved	B	NA		3.7	Y	Absent		HOLD-8260HLW(14)
L2227105-06B	Vial water preserved	B	NA		3.7	Y	Absent	**23-MAY-22 16:52**	HOLD-8260HLW(14)
L2227105-06C	Vial water preserved	B	NA		3.7	Y	Absent	**23-MAY-22 16:52**	HOLD-8260HLW(14)
L2227105-06D	Plastic 2oz unpreserved for TS	B	NA		3.7	Y	Absent		TS(7)
L2227105-07A	Vial MeOH preserved	B	NA		3.7	Y	Absent		HOLD-8260HLW(14)
L2227105-07B	Vial water preserved	B	NA		3.7	Y	Absent	**23-MAY-22 16:52**	HOLD-8260HLW(14)
L2227105-07C	Vial water preserved	B	NA		3.7	Y	Absent	**23-MAY-22 16:52**	HOLD-8260HLW(14)
L2227105-07D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.7	Y	Absent		SUB-TAL 6010(180)
L2227105-07E	Glass 120ml/4oz unpreserved	A	NA		3.7	Y	Absent		HEXCR-7196(30)
L2227105-07F	Glass 500ml/16oz unpreserved	A	NA		3.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082-PPM(365)
L2227105-07G	Plastic 2oz unpreserved for TS	A	NA		3.7	Y	Absent		TS(7)
L2227105-08A	Vial MeOH preserved	B	NA		3.7	Y	Absent		HOLD-8260HLW(14)
L2227105-08B	Vial water preserved	B	NA		3.7	Y	Absent	**23-MAY-22 16:52**	HOLD-8260HLW(14)
L2227105-08C	Vial water preserved	B	NA		3.7	Y	Absent	**23-MAY-22 16:52**	HOLD-8260HLW(14)
L2227105-08D	Plastic 2oz unpreserved for TS	B	NA		3.7	Y	Absent		TS(7)
L2227105-09D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.7	Y	Absent		SUB-TAL 6010(180)
L2227105-09E	Glass 120ml/4oz unpreserved	A	NA		3.7	Y	Absent		HEXCR-7196(30)
L2227105-09F	Glass 500ml/16oz unpreserved	A	NA		3.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),TS(7),NYTCL-8081(14),NYTCL-8082-PPM(365)
L2227105-10A	Vial MeOH preserved	B	NA		3.7	Y	Absent		HOLD-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: TROY (WATER STREET) PHASE 1A
Project Number: TROY (WATER STREET)

Lab Number: L2227105
Report Date: 06/07/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2227105-10B	Vial water preserved	B	NA		3.7	Y	Absent	**23-MAY-22 16:52**	HOLD-8260HLW(14)
L2227105-10C	Vial water preserved	B	NA		3.7	Y	Absent	**23-MAY-22 16:52**	HOLD-8260HLW(14)
L2227105-10D	Plastic 2oz unpreserved for TS	A	NA		3.7	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name:	TROY (WATER STREET) PHASE 1A	**Lab Number:**	L2227105
Project Number:	TROY (WATER STREET)	**Report Date:**	06/07/22

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report

Project Name:	TROY (WATER STREET) PHASE 1A	**Lab Number:**	L2227105
Project Number:	TROY (WATER STREET)	**Report Date:**	06/07/22

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the reporting limit (RL) for the sample.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where

Report Format: Data Usability Report

Project Name:	TROY (WATER STREET) PHASE 1A	**Lab Number:**	L2227105
Project Number:	TROY (WATER STREET)	**Report Date:**	06/07/22

Data Qualifiers

the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name:	TROY (WATER STREET) PHASE 1A	**Lab Number:**	L2227105
Project Number:	TROY (WATER STREET)	**Report Date:**	06/07/22

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of

Date Rec'd in Lab: 5/21/22

ALPHA Job #: L2227105

Client Information

Client: LAND Remediation
Address: 74 Hudson River Road,
Waterford, NY 12188
Phone: 203.233.4100
Fax:
Email: jlb@land-remediation.com

Project Information

Project Name: Troy (Water Street) Phase 1A Remediation
Project Location: 8000 Main Street, Troy, NY 12180
Project #
(Use Project name as Project #) ☑
Project Manager: Jonathan Borrelli
ALPHAQuote #:

Turn-Around Time

Standard ☐ Due Date:
Rush (only if pre approved) ☐ # of Days: 5 Day

Deliverables

☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information

☐ Same as Client Info
PO #

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☑ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:
ONLY REPORT MAXIMUM TCL PCBs QUANTITY TO 1 PPM.

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Total Cyanide 9010C	Chromium (+6) 7199	TCL Pesticides 8081	TCL PCBs 8082/ Hg-7471B	NYTCL SVOCs 8270D	TCL VOCs 5035A 8260 B	TAL Metals		Sample Specific Comments	Total Bottle
27105 01	Troy - CF -1	5/20/2022	9:00	Sand	JC	X	X	X	X	X	X	X		DER10	
02	Troy - CF -1A	5/20/2022	9:15	Sand	JC						X			DER10	
03	Troy - CF - 2	5/20/2022	9:30	Sand	JC	X	X	X	X	X	X	X		DER10	
04	Troy - CF -2A	5/20/2022	9:45	Sand	JC						X			DER10	
05	Troy - CF -3	5/20/2022	10:00	Sand	JC	X	X	X	X	X	X	X		DER10	
06	Troy - CF - 3A	5/20/2022	10:15	Sand	JC						X			DER10	
07	Troy - CF - 4	5/20/2022	10:30	Sand	JC	X	X	X	X	X	X	X		DER10	
08	Troy - CF - 4A	5/20/2022	10:45	Sand	JC						X			DER10	
09	Troy - CF - 5	5/20/2022	11:00	Sand	JC	X	X	X	X	X		X		DER10	
10	Troy - CF - 5A	5/20/2022	11:15	Sand	JC						X			DER10	
					Container Type	G	G	G	G	V	G				
					Preservative										

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
Jonathan Borrelli	5/20/22 15:45		5/20/22 15:45
	5/20/22 15:50		5/21/22 0040

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.

Form No: 01-25 (rev. 30-Sept-2013)

Thursday, June 02, 2022

Attn: Melissa Deyo
Alpha Analytical Lab
8 Walkup Drive
Westborough, MA 01581

Project ID: L2227105
SDG ID: GCL36771
Sample ID#s: CL36771 - CL36775

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,



P
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone (860) 645-1102 Fax (860) 645-0823





Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Sample Id Cross Reference

June 02, 2022

SDG I.D.: GCL36771

Project ID: L2227105

Client Id	Lab Id	Matrix
TROY-CF-1	CL36771	SOIL
TROY-CF-2	CL36772	SOIL
TROY-CF-3	CL36773	SOIL
TROY-CF-4	CL36774	SOIL
TROY-CF-5	CL36775	SOIL

[redacted]

[redacted]

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 02, 2022

FOR: Attn: Melissa Deyo
Alpha Analytical Lab
8 Walkup Drive
Westborough, MA 01581

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/20/22	9:00
Location Code:	ALPHA	Received by:	SW	05/24/22	12:40
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCL36771
Phoenix ID: CL36771

Project ID: L2227105
Client ID: TROY-CF-1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	ND	0.38	0.38	mg/Kg	1	05/25/22	CPP	SW6010D
Aluminum	5780	57	7.5	mg/Kg	10	05/25/22	EK	SW6010D
Arsenic	3.38	0.75	0.75	mg/Kg	1	05/25/22	CPP	SW6010D
Barium	39.6	0.38	0.38	mg/Kg	1	05/25/22	CPP	SW6010D
Beryllium	0.39	0.30	0.15	mg/Kg	1	05/25/22	CPP	SW6010D
Calcium	41300	57	35	mg/Kg	10	05/25/22	CPP	SW6010D
Cadmium	0.77	0.38	0.38	mg/Kg	1	05/25/22	CPP	SW6010D
Cobalt	5.47	0.38	0.38	mg/Kg	1	05/25/22	CPP	SW6010D
Chromium	9.87	0.38	0.38	mg/Kg	1	05/25/22	CPP	SW6010D
Copper	15.5	0.8	0.38	mg/kg	1	05/25/22	CPP	SW6010D
Iron	16200	57	38	mg/Kg	10	05/25/22	CPP	SW6010D
Mercury	ND	0.03	0.02	mg/Kg	2	05/26/22	IE	SW7471B
Potassium	1190	5.7	2.9	mg/Kg	1	05/25/22	CPP	SW6010D
Magnesium	11800	57	38	mg/Kg	10	05/25/22	CPP	SW6010D
Manganese	298	3.8	3.8	mg/Kg	10	05/25/22	CPP	SW6010D
Sodium	71.9	5.7	3.2	mg/Kg	1	05/25/22	CPP	SW6010D
Nickel	12.7	0.38	0.38	mg/Kg	1	05/25/22	CPP	SW6010D
Lead	6.63	0.38	0.38	mg/Kg	1	05/25/22	CPP	SW6010D
Antimony	ND	3.8	3.8	mg/Kg	1	05/25/22	CPP	SW6010D
Selenium	ND	1.5	1.3	mg/Kg	1	05/25/22	CPP	SW6010D
Thallium	ND	3.4	1.5	mg/Kg	1	05/25/22	CPP	SW6010D
Vanadium	14.4	0.38	0.38	mg/Kg	1	05/25/22	CPP	SW6010D
Zinc	36.2	0.8	0.38	mg/Kg	1	05/25/22	CPP	SW6010D
Percent Solid	92			%		05/24/22	k	SW846-%Solid
Mercury Digestion	Completed					05/26/22	AB/AB	SW7471B
Total Metals Digest	Completed					05/24/22	M/AG	SW3050B

Ver 2

Project ID: L2227105
Client ID: TROY-CF-1

Phoenix I.D.: CL36771

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

[redacted]or

June 02, 2022

Reviewed and Released by: Phyllis Shiller, Laboratory Director





Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 02, 2022

FOR: Attn: Melissa Deyo
Alpha Analytical Lab
8 Walkup Drive
Westborough, MA 01581

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/20/22	9:30
Location Code:	ALPHA	Received by:	SW	05/24/22	12:40
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCL36771
Phoenix ID: CL36772

Project ID: L2227105
Client ID: TROY-CF-2

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	ND	0.35	0.35	mg/Kg	1	05/25/22	CPP	SW6010D
Aluminum	5670	52	7.0	mg/Kg	10	05/25/22	EK	SW6010D
Arsenic	3.07	0.70	0.70	mg/Kg	1	05/25/22	CPP	SW6010D
Barium	36.1	0.35	0.35	mg/Kg	1	05/25/22	CPP	SW6010D
Beryllium	0.38	0.28	0.14	mg/Kg	1	05/25/22	CPP	SW6010D
Calcium	32600	52	32	mg/Kg	10	05/25/22	CPP	SW6010D
Cadmium	0.75	0.35	0.35	mg/Kg	1	05/25/22	CPP	SW6010D
Cobalt	4.90	0.35	0.35	mg/Kg	1	05/25/22	CPP	SW6010D
Chromium	8.91	0.35	0.35	mg/Kg	1	05/25/22	CPP	SW6010D
Copper	14.4	0.7	0.35	mg/kg	1	05/25/22	CPP	SW6010D
Iron	16000	52	35	mg/Kg	10	05/25/22	CPP	SW6010D
Mercury	ND	0.03	0.02	mg/Kg	2	05/26/22	IE	SW7471B
Potassium	1110	5.2	2.7	mg/Kg	1	05/25/22	CPP	SW6010D
Magnesium	8770	52	35	mg/Kg	10	05/25/22	CPP	SW6010D
Manganese	241	3.5	3.5	mg/Kg	10	05/25/22	CPP	SW6010D
Sodium	84.5	5.2	3.0	mg/Kg	1	05/25/22	CPP	SW6010D
Nickel	10.6	0.35	0.35	mg/Kg	1	05/25/22	CPP	SW6010D
Lead	5.95	0.35	0.35	mg/Kg	1	05/25/22	CPP	SW6010D
Antimony	ND	3.5	3.5	mg/Kg	1	05/25/22	CPP	SW6010D
Selenium	ND	1.4	1.2	mg/Kg	1	05/25/22	CPP	SW6010D
Thallium	ND	3.1	1.4	mg/Kg	1	05/25/22	CPP	SW6010D
Vanadium	14.9	0.35	0.35	mg/Kg	1	05/25/22	CPP	SW6010D
Zinc	30.8	0.7	0.35	mg/Kg	1	05/25/22	CPP	SW6010D
Percent Solid	94			%		05/24/22	k	SW846-%Solid
Mercury Digestion	Completed					05/26/22	AB/AB	SW7471B
Total Metals Digest	Completed					05/24/22	M/AG	SW3050B

Ver 2

Project ID: L2227105
Client ID: TROY-CF-2

Phoenix I.D.: CL36772

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

[redacted]or

June 02, 2022

Reviewed and Released by: Phyllis Shiller, Laboratory Director

[redacted]

[redacted]

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 02, 2022

FOR: Attn: Melissa Deyo
Alpha Analytical Lab
8 Walkup Drive
Westborough, MA 01581

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/20/22	10:00
Location Code:	ALPHA	Received by:	SW	05/24/22	12:40
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCL36771
Phoenix ID: CL36773

Project ID: L2227105
Client ID: TROY-CF-3

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	ND	0.44	0.44	mg/Kg	1	05/25/22	CPP	SW6010D
Aluminum	6290	66	8.8	mg/Kg	10	05/25/22	EK	SW6010D
Arsenic	2.85	0.88	0.88	mg/Kg	1	05/25/22	CPP	SW6010D
Barium	34.9	0.44	0.44	mg/Kg	1	05/25/22	CPP	SW6010D
Beryllium	0.36	0.35	0.18	mg/Kg	1	05/25/22	CPP	SW6010D
Calcium	28600	66	41	mg/Kg	10	05/25/22	CPP	SW6010D
Cadmium	0.81	0.44	0.44	mg/Kg	1	05/25/22	CPP	SW6010D
Cobalt	5.97	0.44	0.44	mg/Kg	1	05/25/22	CPP	SW6010D
Chromium	9.56	0.44	0.44	mg/Kg	1	05/25/22	CPP	SW6010D
Copper	12.9	0.9	0.44	mg/kg	1	05/25/22	CPP	SW6010D
Iron	15700	66	44	mg/Kg	10	05/25/22	CPP	SW6010D
Mercury	ND	0.03	0.02	mg/Kg	2	05/26/22	IE	SW7471B
Potassium	1030	6.6	3.4	mg/Kg	1	05/25/22	CPP	SW6010D
Magnesium	8610	66	44	mg/Kg	10	05/25/22	CPP	SW6010D
Manganese	235	4.4	4.4	mg/Kg	10	05/25/22	CPP	SW6010D
Sodium	235	6.6	3.8	mg/Kg	1	05/25/22	CPP	SW6010D
Nickel	11.3	0.44	0.44	mg/Kg	1	05/25/22	CPP	SW6010D
Lead	5.51	0.44	0.44	mg/Kg	1	05/25/22	CPP	SW6010D
Antimony	ND	4.4	4.4	mg/Kg	1	05/25/22	CPP	SW6010D
Selenium	ND	1.8	1.5	mg/Kg	1	05/25/22	CPP	SW6010D
Thallium	ND	4.0	1.8	mg/Kg	1	05/25/22	CPP	SW6010D
Vanadium	15.4	0.44	0.44	mg/Kg	1	05/25/22	CPP	SW6010D
Zinc	34.2	0.9	0.44	mg/Kg	1	05/25/22	CPP	SW6010D
Percent Solid	81			%		05/24/22	k	SW846-%Solid
Mercury Digestion	Completed					05/26/22	AB/AB	SW7471B
Total Metals Digest	Completed					05/24/22	M/AG	SW3050B

Ver 2

Project ID: L2227105
Client ID: TROY-CF-3

Phoenix I.D.: CL36773

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

[redacted]**or**

June 02, 2022

Reviewed and Released by: Phyllis Shiller, Laboratory Director

[redacted]

[redacted]

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 02, 2022

FOR: Attn: Melissa Deyo
Alpha Analytical Lab
8 Walkup Drive
Westborough, MA 01581

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/20/22	10:30
Location Code:	ALPHA	Received by:	SW	05/24/22	12:40
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCL36771
Phoenix ID: CL36774

Project ID: L2227105
Client ID: TROY-CF-4

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	ND	0.37	0.37	mg/Kg	1	05/25/22	CPP	SW6010D
Aluminum	5320	55	7.4	mg/Kg	10	05/25/22	EK	SW6010D
Arsenic	3.52	0.74	0.74	mg/Kg	1	05/25/22	CPP	SW6010D
Barium	48.0	0.37	0.37	mg/Kg	1	05/25/22	CPP	SW6010D
Beryllium	0.35	0.29	0.15	mg/Kg	1	05/25/22	CPP	SW6010D
Calcium	31900	55	34	mg/Kg	10	05/25/22	CPP	SW6010D
Cadmium	0.75	0.37	0.37	mg/Kg	1	05/25/22	CPP	SW6010D
Cobalt	5.33	0.37	0.37	mg/Kg	1	05/25/22	CPP	SW6010D
Chromium	8.66	0.37	0.37	mg/Kg	1	05/25/22	CPP	SW6010D
Copper	15.6	0.7	0.37	mg/kg	1	05/25/22	CPP	SW6010D
Iron	15200	55	37	mg/Kg	10	05/25/22	CPP	SW6010D
Mercury	ND	0.03	0.02	mg/Kg	2	05/26/22	IE	SW7471B
Potassium	1040	5.5	2.9	mg/Kg	1	05/25/22	CPP	SW6010D
Magnesium	7610	55	37	mg/Kg	10	05/25/22	CPP	SW6010D
Manganese	311	3.7	3.7	mg/Kg	10	05/25/22	CPP	SW6010D
Sodium	69.4	5.5	3.2	mg/Kg	1	05/25/22	CPP	SW6010D
Nickel	11.6	0.37	0.37	mg/Kg	1	05/25/22	CPP	SW6010D
Lead	6.44	0.37	0.37	mg/Kg	1	05/25/22	CPP	SW6010D
Antimony	ND	3.7	3.7	mg/Kg	1	05/25/22	CPP	SW6010D
Selenium	ND	1.5	1.3	mg/Kg	1	05/25/22	CPP	SW6010D
Thallium	ND	3.3	1.5	mg/Kg	1	05/25/22	CPP	SW6010D
Vanadium	13.5	0.37	0.37	mg/Kg	1	05/25/22	CPP	SW6010D
Zinc	32.2	0.7	0.37	mg/Kg	1	05/25/22	CPP	SW6010D
Percent Solid	93			%		05/24/22	k	SW846-%Solid
Mercury Digestion	Completed					05/26/22	AB/AB	SW7471B
Total Metals Digest	Completed					05/24/22	M/AG	SW3050B

Ver 2

Project ID: L2227105
Client ID: TROY-CF-4

Phoenix I.D.: CL36774

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

[redacted]or

June 02, 2022

Reviewed and Released by: Phyllis Shiller, Laboratory Director

[redacted]

[redacted]

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 02, 2022

FOR: Attn: Melissa Deyo
Alpha Analytical Lab
8 Walkup Drive
Westborough, MA 01581

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/20/22	11:00
Location Code:	ALPHA	Received by:	SW	05/24/22	12:40
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCL36771
Phoenix ID: CL36775

Project ID: L2227105
Client ID: TROY-CF-5

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	ND	0.35	0.35	mg/Kg	1	05/25/22	CPP	SW6010D
Aluminum	5740	53	7.1	mg/Kg	10	05/25/22	CPP	SW6010D
Arsenic	3.49	0.71	0.71	mg/Kg	1	05/25/22	CPP	SW6010D
Barium	33.6	0.35	0.35	mg/Kg	1	05/25/22	CPP	SW6010D
Beryllium	0.35	0.28	0.14	mg/Kg	1	05/25/22	CPP	SW6010D
Calcium	38000	53	32	mg/Kg	10	05/25/22	CPP	SW6010D
Cadmium	0.71	0.35	0.35	mg/Kg	1	05/25/22	CPP	SW6010D
Cobalt	4.97	0.35	0.35	mg/Kg	1	05/25/22	CPP	SW6010D
Chromium	8.44	0.35	0.35	mg/Kg	1	05/25/22	CPP	SW6010D
Copper	15.0	0.7	0.35	mg/kg	1	05/25/22	CPP	SW6010D
Iron	16800	53	35	mg/Kg	10	05/25/22	CPP	SW6010D
Mercury	ND	0.03	0.02	mg/Kg	2	05/26/22	IE	SW7471B
Potassium	1020	5.3	2.8	mg/Kg	1	05/25/22	CPP	SW6010D
Magnesium	9600	53	35	mg/Kg	10	05/25/22	CPP	SW6010D
Manganese	272	3.5	3.5	mg/Kg	10	05/25/22	TH	SW6010D
Sodium	72.7	5.3	3.0	mg/Kg	1	05/25/22	CPP	SW6010D
Nickel	10.9	0.35	0.35	mg/Kg	1	05/25/22	CPP	SW6010D
Lead	5.62	0.35	0.35	mg/Kg	1	05/25/22	CPP	SW6010D
Antimony	ND	3.5	3.5	mg/Kg	1	05/25/22	CPP	SW6010D
Selenium	ND	1.4	1.2	mg/Kg	1	05/25/22	CPP	SW6010D
Thallium	ND	3.2	1.4	mg/Kg	1	05/25/22	CPP	SW6010D
Vanadium	13.5	0.35	0.35	mg/Kg	1	05/25/22	CPP	SW6010D
Zinc	30.2	0.7	0.35	mg/Kg	1	05/25/22	CPP	SW6010D
Percent Solid	92			%		05/24/22	k	SW846-%Solid
Mercury Digestion	Completed					05/26/22	AB/AB	SW7471B
Total Metals Digest	Completed					05/24/22	M/AG	SW3050B

Ver 2

Project ID: L2227105
Client ID: TROY-CF-5

Phoenix I.D.: CL36775

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

[redacted]or

June 02, 2022

Reviewed and Released by: Phyllis Shiller, Laboratory Director

[redacted]

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

June 02, 2022

QA/QC Data

SDG I.D.: GCL36771

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 626441 (mg/kg), QC Sample No: CL37039 2X (CL36771, CL36772, CL36773, CL36774, CL36775)														
Mercury - Soil	BRL	0.03	0.06	<0.03	NC	106	109	2.8	74.1	76.2	2.8	70 - 130	30	m
Comment:														
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.														
QA/QC Batch 626112 (mg/kg), QC Sample No: CL36765 (CL36771, CL36772, CL36773, CL36774)														
ICP Metals - Soil														
Aluminum	BRL	7.5	10800	9430	13.5	102	114	11.1	NC			75 - 125	35	
Antimony	BRL	3.3	<3.9	<4.3	NC	93.2	99.8	6.8	86.1			75 - 125	35	
Arsenic	BRL	0.67	3.43	2.98	NC	106	120	12.4	101			75 - 125	35	
Barium	BRL	0.33	52.3	47.2	10.3	102	110	7.5	113			75 - 125	35	
Beryllium	BRL	0.27	0.47	0.44	NC	91.6	98.1	6.9	98.7			75 - 125	35	
Cadmium	BRL	0.33	1.23	1.02	NC	105	112	6.5	105			75 - 125	35	
Calcium	BRL	5.0	33900	26800	23.4	103	112	8.4	NC			75 - 125	35	
Chromium	BRL	0.33	14.8	12.7	15.3	107	118	9.8	104			75 - 125	35	
Cobalt	BRL	0.33	6.01	5.19	14.6	104	112	7.4	98.9			75 - 125	35	
Copper	BRL	0.67	12.6	10.6	17.2	97.8	109	10.8	98.1			75 - 125	35	
Iron	BRL	5.0	17700	14800	17.8	97.1	110	12.5	NC			75 - 125	35	
Lead	BRL	0.33	15.0	14.5	3.40	110	121	9.5	106			75 - 125	35	
Magnesium	BRL	5.0	12800	8930	35.6	108	118	8.8	NC			75 - 125	35	r
Manganese	BRL	0.33	431	343	22.7	100	110	9.5	82.3			75 - 125	35	
Nickel	BRL	0.33	11.8	10.2	14.5	95.6	102	6.5	95.6			75 - 125	35	
Potassium	BRL	5.0	1340	1110	18.8	86.8	96.5	10.6	>130			75 - 125	35	m
Selenium	BRL	1.3	<1.5	<1.7	NC	97.5	109	11.1	98.8			75 - 125	35	
Silver	BRL	0.33	<0.39	<0.43	NC	105	116	10.0	101			75 - 125	35	
Sodium	BRL	5.0	114	100	13.1	77.1	84.9	9.6	>130			75 - 125	35	m
Thallium	BRL	3.0	<3.5	<3.9	NC	102	113	10.2	99.7			75 - 125	35	
Vanadium	BRL	0.33	25.0	21.4	15.5	106	116	9.0	107			75 - 125	35	
Zinc	BRL	0.67	82.7	72.8	12.7	104	114	9.2	111			75 - 125	35	
Comment:														
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.														
QA/QC Batch 626121 (mg/kg), QC Sample No: CL37166 (CL36775)														
ICP Metals - Soil														
Aluminum	BRL	5.0	15700	15900	1.30	120	111	7.8	NC			75 - 125	35	
Antimony	BRL	3.3	<3.9	<4.0	NC	97.6	89.8	8.3	85.4			75 - 125	35	
Arsenic	BRL	0.67	4.06	4.80	16.7	110	98.1	11.4	98.0			75 - 125	35	
Barium	BRL	0.33	80.5	108	29.2	111	105	5.6	108			75 - 125	35	
Beryllium	BRL	0.27	0.62	0.77	NC	106	107	0.9	100			75 - 125	35	
Cadmium	BRL	0.33	1.37	1.54	NC	110	105	4.7	101			75 - 125	35	
Calcium	BRL	5.0	1510	1630	7.60	121	110	9.5	NC			75 - 125	35	
Chromium	BRL	0.33	24.0	24.8	3.30	121	111	8.6	101			75 - 125	35	
Cobalt	BRL	0.33	8.32	8.37	0.60	115	107	7.2	97.4			75 - 125	35	
Copper	BRL	0.67	16.3	26.1	46.2	121	107	12.3	98.2			75 - 125	35	r

QA/QC Data

SDG I.D.: GCL36771

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Iron	BRL	5.0	24200	26200	7.90	118	99.3	17.2	NC			75 - 125	35	
Lead	BRL	0.33	27.6	99.1	113	117	103	12.7	109			75 - 125	35	r
Magnesium	BRL	5.0	2630	2670	1.50	116	110	5.3	NC			75 - 125	35	
Manganese	BRL	0.33	369	379	2.70	111	103	7.5	128			75 - 125	35	m
Nickel	BRL	0.33	13.7	14.9	8.40	112	105	6.5	94.5			75 - 125	35	
Potassium	BRL	5.0	932	904	3.10	91.8	87.5	4.8	>130			75 - 125	35	m
Selenium	BRL	1.3	<1.5	<1.6	NC	84.7	77.3	9.1	95.8			75 - 125	35	
Silver	BRL	0.33	<0.39	<0.40	NC	116	107	8.1	97.8			75 - 125	35	
Sodium	BRL	5.0	102	81.0	23.0	89.3	82.9	7.4	100			75 - 125	35	
Thallium	BRL	3.0	<1.5	<3.6	NC	113	108	4.5	96.2			75 - 125	35	
Vanadium	BRL	0.33	40.7	38.7	5.00	119	108	9.7	99.8			75 - 125	35	
Zinc	BRL	0.67	139	200	36.0	110	99.5	10.0	90.8			75 - 125	35	r

Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

m = This parameter is outside laboratory MS/MSD specified recovery limits.
r = This parameter is outside laboratory RPD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

[redacted]ctor
June 02, 2022

Thursday, June 02, 2022

Criteria: None

State: NY

Sample Criteria Exceedances Report

GCL36771 - ALPHA

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

[redacted]

[redacted]

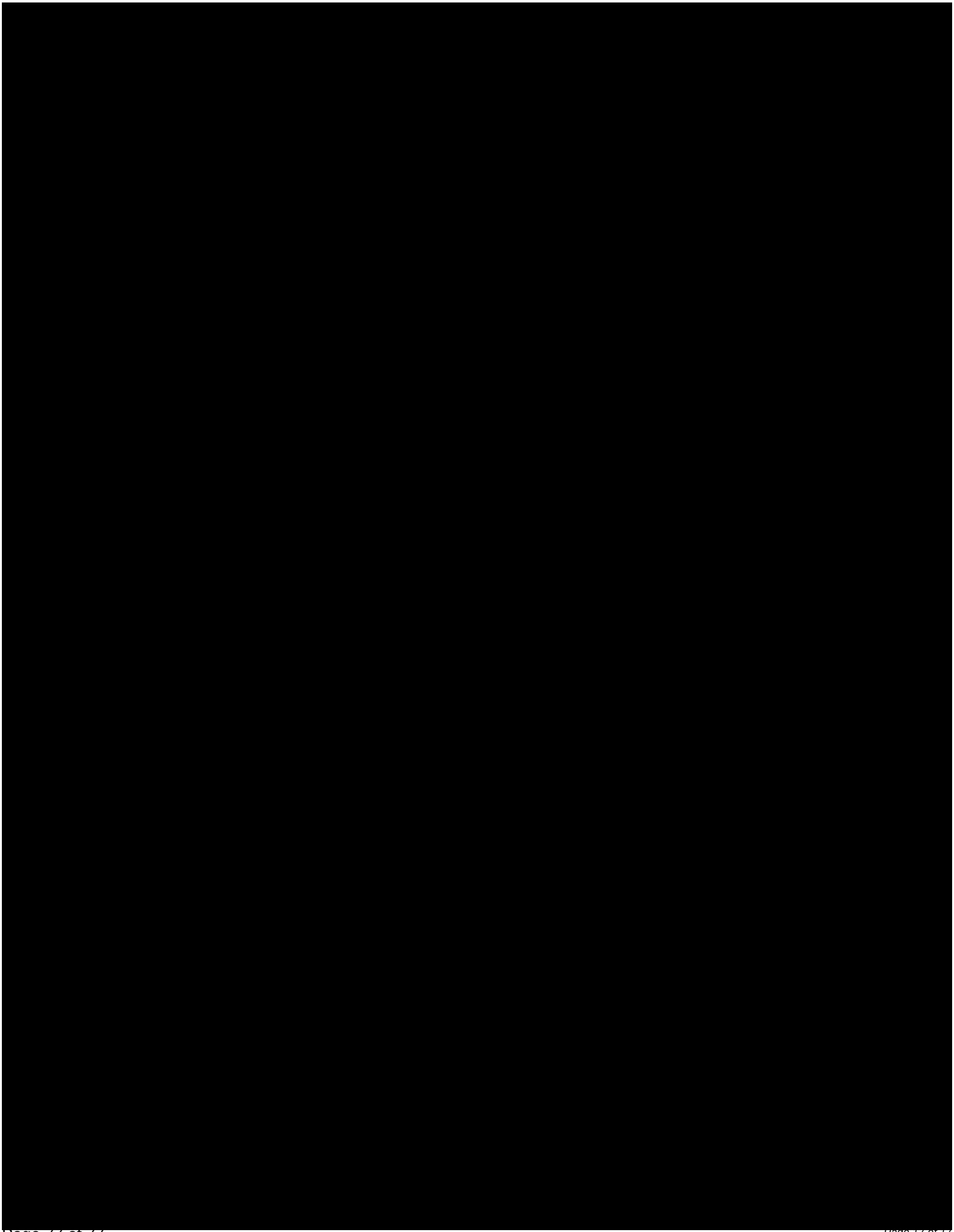
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY Temperature Narration

June 02, 2022

SDG I.D.: GCL36771

The samples in this delivery group were received at 3.0°C.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)



Page 17 of 17

Attachment 3b - DER-10 VOC Analytical Results

ANALYTICAL REPORT

Lab Number:	L2228546
Client:	Land Remediation, Inc. 74 Hudson River Road Waterford, NY 12188
ATTN:	Jonathan Borrelli
Phone:	(203) 233-4100
Project Name:	TROY (WATER ST) PHASE 1A REMED
Project Number:	TROY (WATER STREET)
Report Date:	06/21/22

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: TROY (WATER ST) PHASE 1A REMED
Project Number: TROY (WATER STREET)

Lab Number: L2228546
Report Date: 06/21/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2228546-01	TROY-CF-1	SOIL	8000 MAIN STREET, TROY, NY 12180	05/31/22 14:00	05/31/22
L2228546-02	TROY-CF-1A	SOIL	8000 MAIN STREET, TROY, NY 12180	05/31/22 14:15	05/31/22
L2228546-03	TROY-CF-2	SOIL	8000 MAIN STREET, TROY, NY 12180	05/31/22 14:30	05/31/22
L2228546-04	TROY-CF-2A	SOIL	8000 MAIN STREET, TROY, NY 12180	05/31/22 14:45	05/31/22
L2228546-05	TROY-CF-3	SOIL	8000 MAIN STREET, TROY, NY 12180	05/31/22 15:00	05/31/22
L2228546-06	TROY-CF-3A	SOIL	8000 MAIN STREET, TROY, NY 12180	05/31/22 15:15	05/31/22
L2228546-07	TROY-CF-4	SOIL	8000 MAIN STREET, TROY, NY 12180	05/31/22 15:30	05/31/22
L2228546-08	TROY-CF-4A	SOIL	8000 MAIN STREET, TROY, NY 12180	05/31/22 15:45	05/31/22
L2228546-09	TROY-CF-5	SOIL	8000 MAIN STREET, TROY, NY 12180	05/31/22 16:00	05/31/22
L2228546-10	TROY-CF-5A	SOIL	8000 MAIN STREET, TROY, NY 12180	05/31/22 16:15	05/31/22

Project Name:	TROY (WATER ST) PHASE 1A REMED	**Lab Number:**	L2228546
Project Number:	TROY (WATER STREET)	**Report Date:**	06/21/22

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	TROY (WATER ST) PHASE 1A REMED	**Lab Number:**	L2228546
Project Number:	TROY (WATER STREET)	**Report Date:**	06/21/22

Case Narrative (continued)

Report Revision

June 21, 2022: The Volatile Organics analyte list has been amended.

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Cristin Walker

Title: Technical Director/Representative Date: 06/21/22

ORGANICS

VOLATILES

Project Name: TROY (WATER ST) PHASE 1A REMED **Lab Number:** L2228546

Project Number: TROY (WATER STREET) **Report Date:** 06/21/22

SAMPLE RESULTS

Lab ID: L2228546-01
Client ID: TROY-CF-1
Sample Location: 8000 MAIN STREET, TROY, NY 12180

Date Collected: 05/31/22 14:00
Date Received: 05/31/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/01/22 14:32
Analyst: JC
Percent Solids: 97%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	3.6	1.6	1
1,1-Dichloroethane	ND		ug/kg	0.71	0.10	1
Chloroform	ND		ug/kg	1.1	0.10	1
Carbon tetrachloride	ND		ug/kg	0.71	0.16	1
1,2-Dichloropropane	ND		ug/kg	0.71	0.09	1
Dibromochloromethane	ND		ug/kg	0.71	0.10	1
1,1,2-Trichloroethane	ND		ug/kg	0.71	0.19	1
Tetrachloroethene	ND		ug/kg	0.36	0.14	1
Chlorobenzene	ND		ug/kg	0.36	0.09	1
Trichlorofluoromethane	ND		ug/kg	2.8	0.50	1
1,2-Dichloroethane	ND		ug/kg	0.71	0.18	1
1,1,1-Trichloroethane	ND		ug/kg	0.36	0.12	1
Bromodichloromethane	ND		ug/kg	0.36	0.08	1
trans-1,3-Dichloropropene	ND		ug/kg	0.71	0.19	1
cis-1,3-Dichloropropene	ND		ug/kg	0.36	0.11	1
Bromoform	ND		ug/kg	2.8	0.18	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.36	0.12	1
Benzene	ND		ug/kg	0.36	0.12	1
Toluene	ND		ug/kg	0.71	0.39	1
Ethylbenzene	ND		ug/kg	0.71	0.10	1
Chloromethane	ND		ug/kg	2.8	0.66	1
Bromomethane	ND		ug/kg	1.4	0.41	1
Vinyl chloride	ND		ug/kg	0.71	0.24	1
Chloroethane	ND		ug/kg	1.4	0.32	1
1,1-Dichloroethene	ND		ug/kg	0.71	0.17	1
trans-1,2-Dichloroethene	ND		ug/kg	1.1	0.10	1
Trichloroethene	ND		ug/kg	0.36	0.10	1
1,2-Dichlorobenzene	ND		ug/kg	1.4	0.10	1

Project Name: TROY (WATER ST) PHASE 1A REMED **Lab Number:** L2228546

Project Number: TROY (WATER STREET) **Report Date:** 06/21/22

SAMPLE RESULTS

Lab ID: L2228546-01 Date Collected: 05/31/22 14:00

Client ID: TROY-CF-1 Date Received: 05/31/22

Sample Location: 8000 MAIN STREET, TROY, NY 12180 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	1.4	0.10	1
1,4-Dichlorobenzene	ND		ug/kg	1.4	0.12	1
Methyl tert butyl ether	ND		ug/kg	1.4	0.14	1
p/m-Xylene	ND		ug/kg	1.4	0.40	1
o-Xylene	ND		ug/kg	0.71	0.21	1
cis-1,2-Dichloroethene	ND		ug/kg	0.71	0.12	1
Styrene	ND		ug/kg	0.71	0.14	1
Dichlorodifluoromethane	ND		ug/kg	7.1	0.65	1
Acetone	ND		ug/kg	7.1	3.4	1
Carbon disulfide	ND		ug/kg	7.1	3.2	1
2-Butanone	ND		ug/kg	7.1	1.6	1
4-Methyl-2-pentanone	ND		ug/kg	7.1	0.91	1
2-Hexanone	ND		ug/kg	7.1	0.84	1
Bromochloromethane	ND		ug/kg	1.4	0.15	1
1,2-Dibromoethane	ND		ug/kg	0.71	0.20	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.1	0.71	1
Isopropylbenzene	ND		ug/kg	0.71	0.08	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.4	0.23	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.4	0.19	1
Methyl Acetate	ND		ug/kg	2.8	0.68	1
Cyclohexane	ND		ug/kg	7.1	0.39	1
1,4-Dioxane	ND		ug/kg	57	25.	1
Freon-113	ND		ug/kg	2.8	0.49	1
Methyl cyclohexane	ND		ug/kg	2.8	0.43	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	119		70-130

Project Name: TROY (WATER ST) PHASE 1A REMED
Lab Number: L2228546
Project Number: TROY (WATER STREET)
Report Date: 06/21/22

SAMPLE RESULTS

Lab ID: L2228546-02
Client ID: TROY-CF-1A
Sample Location: 8000 MAIN STREET, TROY, NY 12180
Date Collected: 05/31/22 14:15
Date Received: 05/31/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/01/22 15:00
Analyst: JC
Percent Solids: 96%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.2	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.0	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.28	1
Tetrachloroethene	ND		ug/kg	0.52	0.20	1
Chlorobenzene	ND		ug/kg	0.52	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.2	0.73	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	0.52	0.17	1
Bromodichloromethane	ND		ug/kg	0.52	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.52	0.16	1
Bromoform	ND		ug/kg	4.2	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.52	0.17	1
Benzene	ND		ug/kg	0.52	0.17	1
Toluene	ND		ug/kg	1.0	0.57	1
Ethylbenzene	ND		ug/kg	1.0	0.15	1
Chloromethane	ND		ug/kg	4.2	0.97	1
Bromomethane	ND		ug/kg	2.1	0.61	1
Vinyl chloride	ND		ug/kg	1.0	0.35	1
Chloroethane	ND		ug/kg	2.1	0.47	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.14	1
Trichloroethene	ND		ug/kg	0.52	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1

Project Name: TROY (WATER ST) PHASE 1A REMED **Lab Number:** L2228546

Project Number: TROY (WATER STREET) **Report Date:** 06/21/22

SAMPLE RESULTS

Lab ID: L2228546-02 Date Collected: 05/31/22 14:15

Client ID: TROY-CF-1A Date Received: 05/31/22

Sample Location: 8000 MAIN STREET, TROY, NY 12180 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.21	1
p/m-Xylene	ND		ug/kg	2.1	0.58	1
o-Xylene	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.96	1
Acetone	ND		ug/kg	10	5.0	1
Carbon disulfide	ND		ug/kg	10	4.8	1
2-Butanone	ND		ug/kg	10	2.3	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.1	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.29	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	1.0	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.34	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.28	1
Methyl Acetate	ND		ug/kg	4.2	0.99	1
Cyclohexane	ND		ug/kg	10	0.57	1
1,4-Dioxane	ND		ug/kg	84	37.	1
Freon-113	ND		ug/kg	4.2	0.72	1
Methyl cyclohexane	ND		ug/kg	4.2	0.63	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	117		70-130

Project Name: TROY (WATER ST) PHASE 1A REMED **Lab Number:** L2228546

Project Number: TROY (WATER STREET) **Report Date:** 06/21/22

SAMPLE RESULTS

Lab ID: L2228546-03 Date Collected: 05/31/22 14:30

Client ID: TROY-CF-2 Date Received: 05/31/22

Sample Location: 8000 MAIN STREET, TROY, NY 12180 Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260C

Analytical Date: 06/01/22 15:29

Analyst: JC

Percent Solids: 96%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	2.6	1.2	1
1,1-Dichloroethane	ND		ug/kg	0.53	0.08	1
Chloroform	ND		ug/kg	0.79	0.07	1
Carbon tetrachloride	ND		ug/kg	0.53	0.12	1
1,2-Dichloropropane	ND		ug/kg	0.53	0.07	1
Dibromochloromethane	ND		ug/kg	0.53	0.07	1
1,1,2-Trichloroethane	ND		ug/kg	0.53	0.14	1
Tetrachloroethene	ND		ug/kg	0.26	0.10	1
Chlorobenzene	ND		ug/kg	0.26	0.07	1
Trichlorofluoromethane	ND		ug/kg	2.1	0.37	1
1,2-Dichloroethane	ND		ug/kg	0.53	0.14	1
1,1,1-Trichloroethane	ND		ug/kg	0.26	0.09	1
Bromodichloromethane	ND		ug/kg	0.26	0.06	1
trans-1,3-Dichloropropene	ND		ug/kg	0.53	0.14	1
cis-1,3-Dichloropropene	ND		ug/kg	0.26	0.08	1
Bromoform	ND		ug/kg	2.1	0.13	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.26	0.09	1
Benzene	ND		ug/kg	0.26	0.09	1
Toluene	ND		ug/kg	0.53	0.29	1
Ethylbenzene	ND		ug/kg	0.53	0.07	1
Chloromethane	ND		ug/kg	2.1	0.49	1
Bromomethane	ND		ug/kg	1.0	0.31	1
Vinyl chloride	ND		ug/kg	0.53	0.18	1
Chloroethane	ND		ug/kg	1.0	0.24	1
1,1-Dichloroethene	ND		ug/kg	0.53	0.12	1
trans-1,2-Dichloroethene	ND		ug/kg	0.79	0.07	1
Trichloroethene	ND		ug/kg	0.26	0.07	1
1,2-Dichlorobenzene	ND		ug/kg	1.0	0.08	1

Project Name: TROY (WATER ST) PHASE 1A REMED **Lab Number:** L2228546

Project Number: TROY (WATER STREET) **Report Date:** 06/21/22

SAMPLE RESULTS

Lab ID: L2228546-03 Date Collected: 05/31/22 14:30

Client ID: TROY-CF-2 Date Received: 05/31/22

Sample Location: 8000 MAIN STREET, TROY, NY 12180 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	1.0	0.08	1
1,4-Dichlorobenzene	ND		ug/kg	1.0	0.09	1
Methyl tert butyl ether	ND		ug/kg	1.0	0.11	1
p/m-Xylene	ND		ug/kg	1.0	0.30	1
o-Xylene	ND		ug/kg	0.53	0.15	1
cis-1,2-Dichloroethene	ND		ug/kg	0.53	0.09	1
Styrene	ND		ug/kg	0.53	0.10	1
Dichlorodifluoromethane	ND		ug/kg	5.3	0.48	1
Acetone	ND		ug/kg	5.3	2.5	1
Carbon disulfide	ND		ug/kg	5.3	2.4	1
2-Butanone	ND		ug/kg	5.3	1.2	1
4-Methyl-2-pentanone	ND		ug/kg	5.3	0.68	1
2-Hexanone	ND		ug/kg	5.3	0.62	1
Bromochloromethane	ND		ug/kg	1.0	0.11	1
1,2-Dibromoethane	ND		ug/kg	0.53	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	1.6	0.53	1
Isopropylbenzene	ND		ug/kg	0.53	0.06	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.0	0.17	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.0	0.14	1
Methyl Acetate	ND		ug/kg	2.1	0.50	1
Cyclohexane	ND		ug/kg	5.3	0.29	1
1,4-Dioxane	ND		ug/kg	42	18.	1
Freon-113	ND		ug/kg	2.1	0.37	1
Methyl cyclohexane	ND		ug/kg	2.1	0.32	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	120		70-130

Project Name: TROY (WATER ST) PHASE 1A REMED
Lab Number: L2228546
Project Number: TROY (WATER STREET)
Report Date: 06/21/22

SAMPLE RESULTS

Lab ID: L2228546-04
Client ID: TROY-CF-2A
Sample Location: 8000 MAIN STREET, TROY, NY 12180
Date Collected: 05/31/22 14:45
Date Received: 05/31/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/01/22 15:57
Analyst: JC
Percent Solids: 96%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.3	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.15	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.13	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.28	1
Tetrachloroethene	ND		ug/kg	0.53	0.21	1
Chlorobenzene	ND		ug/kg	0.53	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.3	0.74	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	0.53	0.18	1
Bromodichloromethane	ND		ug/kg	0.53	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.29	1
cis-1,3-Dichloropropene	ND		ug/kg	0.53	0.17	1
Bromoform	ND		ug/kg	4.3	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.53	0.18	1
Benzene	ND		ug/kg	0.53	0.18	1
Toluene	ND		ug/kg	1.1	0.58	1
Ethylbenzene	ND		ug/kg	1.1	0.15	1
Chloromethane	ND		ug/kg	4.3	1.0	1
Bromomethane	ND		ug/kg	2.1	0.62	1
Vinyl chloride	ND		ug/kg	1.1	0.36	1
Chloroethane	ND		ug/kg	2.1	0.48	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.15	1
Trichloroethene	ND		ug/kg	0.53	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1

Project Name: TROY (WATER ST) PHASE 1A REMED **Lab Number:** L2228546

Project Number: TROY (WATER STREET) **Report Date:** 06/21/22

SAMPLE RESULTS

Lab ID: L2228546-04 Date Collected: 05/31/22 14:45

Client ID: TROY-CF-2A Date Received: 05/31/22

Sample Location: 8000 MAIN STREET, TROY, NY 12180 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.21	1
p/m-Xylene	ND		ug/kg	2.1	0.60	1
o-Xylene	ND		ug/kg	1.1	0.31	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
Styrene	ND		ug/kg	1.1	0.21	1
Dichlorodifluoromethane	ND		ug/kg	11	0.98	1
Acetone	ND		ug/kg	11	5.1	1
Carbon disulfide	ND		ug/kg	11	4.9	1
2-Butanone	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.1	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.30	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.2	1.1	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.34	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.29	1
Methyl Acetate	ND		ug/kg	4.3	1.0	1
Cyclohexane	ND		ug/kg	11	0.58	1
1,4-Dioxane	ND		ug/kg	85	38.	1
Freon-113	ND		ug/kg	4.3	0.74	1
Methyl cyclohexane	ND		ug/kg	4.3	0.64	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	119		70-130

Project Name: TROY (WATER ST) PHASE 1A REMED **Lab Number:** L2228546

Project Number: TROY (WATER STREET) **Report Date:** 06/21/22

SAMPLE RESULTS

Lab ID: L2228546-05
Client ID: TROY-CF-3
Sample Location: 8000 MAIN STREET, TROY, NY 12180

Date Collected: 05/31/22 15:00
Date Received: 05/31/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/01/22 16:26
Analyst: JC
Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.6	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.1	0.26	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.30	1
Tetrachloroethene	ND		ug/kg	0.56	0.22	1
Chlorobenzene	ND		ug/kg	0.56	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.4	0.77	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.56	0.18	1
Bromodichloromethane	ND		ug/kg	0.56	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.56	0.18	1
Bromoform	ND		ug/kg	4.4	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.56	0.18	1
Benzene	ND		ug/kg	0.56	0.18	1
Toluene	ND		ug/kg	1.1	0.60	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.4	1.0	1
Bromomethane	ND		ug/kg	2.2	0.65	1
Vinyl chloride	ND		ug/kg	1.1	0.37	1
Chloroethane	ND		ug/kg	2.2	0.50	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.15	1
Trichloroethene	ND		ug/kg	0.56	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1

Project Name: TROY (WATER ST) PHASE 1A REMED **Lab Number:** L2228546

Project Number: TROY (WATER STREET) **Report Date:** 06/21/22

SAMPLE RESULTS

Lab ID: L2228546-05 Date Collected: 05/31/22 15:00

Client ID: TROY-CF-3 Date Received: 05/31/22

Sample Location: 8000 MAIN STREET, TROY, NY 12180 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.62	1
o-Xylene	ND		ug/kg	1.1	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	ND		ug/kg	11	5.4	1
Carbon disulfide	ND		ug/kg	11	5.1	1
2-Butanone	ND		ug/kg	11	2.5	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.23	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.31	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.3	1.1	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.36	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.30	1
Methyl Acetate	ND		ug/kg	4.4	1.0	1
Cyclohexane	ND		ug/kg	11	0.60	1
1,4-Dioxane	ND		ug/kg	89	39.	1
Freon-113	ND		ug/kg	4.4	0.77	1
Methyl cyclohexane	ND		ug/kg	4.4	0.67	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	118		70-130

Project Name: TROY (WATER ST) PHASE 1A REMED **Lab Number:** L2228546

Project Number: TROY (WATER STREET) **Report Date:** 06/21/22

SAMPLE RESULTS

Lab ID: L2228546-06
Client ID: TROY-CF-3A
Sample Location: 8000 MAIN STREET, TROY, NY 12180

Date Collected: 05/31/22 15:15
Date Received: 05/31/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/01/22 16:54
Analyst: JC
Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	2.9	1.3	1
1,1-Dichloroethane	ND		ug/kg	0.57	0.08	1
Chloroform	ND		ug/kg	0.86	0.08	1
Carbon tetrachloride	ND		ug/kg	0.57	0.13	1
1,2-Dichloropropane	ND		ug/kg	0.57	0.07	1
Dibromochloromethane	ND		ug/kg	0.57	0.08	1
1,1,2-Trichloroethane	ND		ug/kg	0.57	0.15	1
Tetrachloroethene	ND		ug/kg	0.29	0.11	1
Chlorobenzene	ND		ug/kg	0.29	0.07	1
Trichlorofluoromethane	ND		ug/kg	2.3	0.40	1
1,2-Dichloroethane	ND		ug/kg	0.57	0.15	1
1,1,1-Trichloroethane	ND		ug/kg	0.29	0.10	1
Bromodichloromethane	ND		ug/kg	0.29	0.06	1
trans-1,3-Dichloropropene	ND		ug/kg	0.57	0.16	1
cis-1,3-Dichloropropene	ND		ug/kg	0.29	0.09	1
Bromoform	ND		ug/kg	2.3	0.14	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.29	0.10	1
Benzene	ND		ug/kg	0.29	0.10	1
Toluene	ND		ug/kg	0.57	0.31	1
Ethylbenzene	ND		ug/kg	0.57	0.08	1
Chloromethane	ND		ug/kg	2.3	0.53	1
Bromomethane	ND		ug/kg	1.1	0.33	1
Vinyl chloride	ND		ug/kg	0.57	0.19	1
Chloroethane	ND		ug/kg	1.1	0.26	1
1,1-Dichloroethene	ND		ug/kg	0.57	0.14	1
trans-1,2-Dichloroethene	ND		ug/kg	0.86	0.08	1
Trichloroethene	ND		ug/kg	0.29	0.08	1
1,2-Dichlorobenzene	ND		ug/kg	1.1	0.08	1

Project Name: TROY (WATER ST) PHASE 1A REMED
Lab Number: L2228546
Project Number: TROY (WATER STREET)
Report Date: 06/21/22

SAMPLE RESULTS

Lab ID: L2228546-06
Client ID: TROY-CF-3A
Sample Location: 8000 MAIN STREET, TROY, NY 12180

Date Collected: 05/31/22 15:15
Date Received: 05/31/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	1.1	0.09	1
1,4-Dichlorobenzene	ND		ug/kg	1.1	0.10	1
Methyl tert butyl ether	ND		ug/kg	1.1	0.12	1
p/m-Xylene	ND		ug/kg	1.1	0.32	1
o-Xylene	ND		ug/kg	0.57	0.17	1
cis-1,2-Dichloroethene	ND		ug/kg	0.57	0.10	1
Styrene	ND		ug/kg	0.57	0.11	1
Dichlorodifluoromethane	ND		ug/kg	5.7	0.52	1
Acetone	ND		ug/kg	5.7	2.8	1
Carbon disulfide	ND		ug/kg	5.7	2.6	1
2-Butanone	ND		ug/kg	5.7	1.3	1
4-Methyl-2-pentanone	ND		ug/kg	5.7	0.73	1
2-Hexanone	ND		ug/kg	5.7	0.68	1
Bromochloromethane	ND		ug/kg	1.1	0.12	1
1,2-Dibromoethane	ND		ug/kg	0.57	0.16	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	1.7	0.57	1
Isopropylbenzene	ND		ug/kg	0.57	0.06	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.1	0.18	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.1	0.16	1
Methyl Acetate	ND		ug/kg	2.3	0.54	1
Cyclohexane	ND		ug/kg	5.7	0.31	1
1,4-Dioxane	ND		ug/kg	46	20.	1
Freon-113	ND		ug/kg	2.3	0.40	1
Methyl cyclohexane	ND		ug/kg	2.3	0.34	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	118		70-130

Project Name: TROY (WATER ST) PHASE 1A REMED
Lab Number: L2228546
Project Number: TROY (WATER STREET)
Report Date: 06/21/22

SAMPLE RESULTS

Lab ID: L2228546-07
Client ID: TROY-CF-4
Sample Location: 8000 MAIN STREET, TROY, NY 12180
Date Collected: 05/31/22 15:30
Date Received: 05/31/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/01/22 17:22
Analyst: JC
Percent Solids: 96%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.1	1.9	1
1,1-Dichloroethane	ND		ug/kg	0.82	0.12	1
Chloroform	ND		ug/kg	1.2	0.11	1
Carbon tetrachloride	ND		ug/kg	0.82	0.19	1
1,2-Dichloropropane	ND		ug/kg	0.82	0.10	1
Dibromochloromethane	ND		ug/kg	0.82	0.11	1
1,1,2-Trichloroethane	ND		ug/kg	0.82	0.22	1
Tetrachloroethene	ND		ug/kg	0.41	0.16	1
Chlorobenzene	ND		ug/kg	0.41	0.10	1
Trichlorofluoromethane	ND		ug/kg	3.3	0.57	1
1,2-Dichloroethane	ND		ug/kg	0.82	0.21	1
1,1,1-Trichloroethane	ND		ug/kg	0.41	0.14	1
Bromodichloromethane	ND		ug/kg	0.41	0.09	1
trans-1,3-Dichloropropene	ND		ug/kg	0.82	0.22	1
cis-1,3-Dichloropropene	ND		ug/kg	0.41	0.13	1
Bromoform	ND		ug/kg	3.3	0.20	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.41	0.14	1
Benzene	ND		ug/kg	0.41	0.14	1
Toluene	ND		ug/kg	0.82	0.44	1
Ethylbenzene	ND		ug/kg	0.82	0.12	1
Chloromethane	ND		ug/kg	3.3	0.76	1
Bromomethane	ND		ug/kg	1.6	0.48	1
Vinyl chloride	ND		ug/kg	0.82	0.27	1
Chloroethane	ND		ug/kg	1.6	0.37	1
1,1-Dichloroethene	ND		ug/kg	0.82	0.20	1
trans-1,2-Dichloroethene	ND		ug/kg	1.2	0.11	1
Trichloroethene	ND		ug/kg	0.41	0.11	1
1,2-Dichlorobenzene	ND		ug/kg	1.6	0.12	1

Project Name: TROY (WATER ST) PHASE 1A REMED **Lab Number:** L2228546

Project Number: TROY (WATER STREET) **Report Date:** 06/21/22

SAMPLE RESULTS

Lab ID: L2228546-07 Date Collected: 05/31/22 15:30

Client ID: TROY-CF-4 Date Received: 05/31/22

Sample Location: 8000 MAIN STREET, TROY, NY 12180 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	1.6	0.12	1
1,4-Dichlorobenzene	ND		ug/kg	1.6	0.14	1
Methyl tert butyl ether	ND		ug/kg	1.6	0.16	1
p/m-Xylene	ND		ug/kg	1.6	0.46	1
o-Xylene	ND		ug/kg	0.82	0.24	1
cis-1,2-Dichloroethene	ND		ug/kg	0.82	0.14	1
Styrene	ND		ug/kg	0.82	0.16	1
Dichlorodifluoromethane	ND		ug/kg	8.2	0.75	1
Acetone	ND		ug/kg	8.2	3.9	1
Carbon disulfide	ND		ug/kg	8.2	3.7	1
2-Butanone	ND		ug/kg	8.2	1.8	1
4-Methyl-2-pentanone	ND		ug/kg	8.2	1.0	1
2-Hexanone	ND		ug/kg	8.2	0.97	1
Bromochloromethane	ND		ug/kg	1.6	0.17	1
1,2-Dibromoethane	ND		ug/kg	0.82	0.23	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.5	0.82	1
Isopropylbenzene	ND		ug/kg	0.82	0.09	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.6	0.26	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.6	0.22	1
Methyl Acetate	ND		ug/kg	3.3	0.78	1
Cyclohexane	ND		ug/kg	8.2	0.45	1
1,4-Dioxane	ND		ug/kg	66	29.	1
Freon-113	ND		ug/kg	3.3	0.57	1
Methyl cyclohexane	ND		ug/kg	3.3	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	120		70-130

Project Name: TROY (WATER ST) PHASE 1A REMED
Lab Number: L2228546
Project Number: TROY (WATER STREET)
Report Date: 06/21/22

SAMPLE RESULTS

Lab ID: L2228546-08
Client ID: TROY-CF-4A
Sample Location: 8000 MAIN STREET, TROY, NY 12180
Date Collected: 05/31/22 15:45
Date Received: 05/31/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/01/22 17:51
Analyst: JC
Percent Solids: 96%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.2	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.6	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.28	1
Tetrachloroethene	ND		ug/kg	0.52	0.20	1
Chlorobenzene	ND		ug/kg	0.52	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.1	0.72	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	0.52	0.17	1
Bromodichloromethane	ND		ug/kg	0.52	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.52	0.16	1
Bromoform	ND		ug/kg	4.1	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.52	0.17	1
Benzene	ND		ug/kg	0.52	0.17	1
Toluene	ND		ug/kg	1.0	0.56	1
Ethylbenzene	ND		ug/kg	1.0	0.15	1
Chloromethane	ND		ug/kg	4.1	0.97	1
Bromomethane	ND		ug/kg	2.1	0.60	1
Vinyl chloride	ND		ug/kg	1.0	0.35	1
Chloroethane	ND		ug/kg	2.1	0.47	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.14	1
Trichloroethene	ND		ug/kg	0.52	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1

Project Name: TROY (WATER ST) PHASE 1A REMED **Lab Number:** L2228546

Project Number: TROY (WATER STREET) **Report Date:** 06/21/22

SAMPLE RESULTS

Lab ID: L2228546-08 Date Collected: 05/31/22 15:45

Client ID: TROY-CF-4A Date Received: 05/31/22

Sample Location: 8000 MAIN STREET, TROY, NY 12180 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.21	1
p/m-Xylene	ND		ug/kg	2.1	0.58	1
o-Xylene	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.95	1
Acetone	ND		ug/kg	10	5.0	1
Carbon disulfide	ND		ug/kg	10	4.7	1
2-Butanone	ND		ug/kg	10	2.3	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.1	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.29	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	1.0	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.33	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.28	1
Methyl Acetate	ND		ug/kg	4.1	0.98	1
Cyclohexane	ND		ug/kg	10	0.56	1
1,4-Dioxane	ND		ug/kg	83	36.	1
Freon-113	ND		ug/kg	4.1	0.72	1
Methyl cyclohexane	ND		ug/kg	4.1	0.62	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	119		70-130

Project Name: TROY (WATER ST) PHASE 1A REMED **Lab Number:** L2228546

Project Number: TROY (WATER STREET) **Report Date:** 06/21/22

SAMPLE RESULTS

Lab ID: L2228546-09 Date Collected: 05/31/22 16:00
Client ID: TROY-CF-5 Date Received: 05/31/22
Sample Location: 8000 MAIN STREET, TROY, NY 12180 Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/01/22 18:19
Analyst: JC
Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.0	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.23	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27	1
Tetrachloroethene	ND		ug/kg	0.50	0.20	1
Chlorobenzene	ND		ug/kg	0.50	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.0	0.70	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17	1
Bromodichloromethane	ND		ug/kg	0.50	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16	1
Bromoform	ND		ug/kg	4.0	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17	1
Benzene	ND		ug/kg	0.50	0.17	1
Toluene	ND		ug/kg	1.0	0.55	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.0	0.94	1
Bromomethane	ND		ug/kg	2.0	0.59	1
Vinyl chloride	ND		ug/kg	1.0	0.34	1
Chloroethane	ND		ug/kg	2.0	0.46	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1
Trichloroethene	ND		ug/kg	0.50	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14	1

Project Name: TROY (WATER ST) PHASE 1A REMED **Lab Number:** L2228546

Project Number: TROY (WATER STREET) **Report Date:** 06/21/22

SAMPLE RESULTS

Lab ID: L2228546-09 Date Collected: 05/31/22 16:00

Client ID: TROY-CF-5 Date Received: 05/31/22

Sample Location: 8000 MAIN STREET, TROY, NY 12180 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.56	1
o-Xylene	ND		ug/kg	1.0	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.92	1
Acetone	ND		ug/kg	10	4.8	1
Carbon disulfide	ND		ug/kg	10	4.6	1
2-Butanone	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.28	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27	1
Methyl Acetate	ND		ug/kg	4.0	0.96	1
Cyclohexane	ND		ug/kg	10	0.55	1
1,4-Dioxane	ND		ug/kg	81	35.	1
Freon-113	ND		ug/kg	4.0	0.70	1
Methyl cyclohexane	ND		ug/kg	4.0	0.61	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	119		70-130

Project Name: TROY (WATER ST) PHASE 1A REMED
Lab Number: L2228546
Project Number: TROY (WATER STREET)
Report Date: 06/21/22

SAMPLE RESULTS

Lab ID: L2228546-10
Client ID: TROY-CF-5A
Sample Location: 8000 MAIN STREET, TROY, NY 12180
Date Collected: 05/31/22 16:15
Date Received: 05/31/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/01/22 18:47
Analyst: JC
Percent Solids: 97%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	3.8	1.7	1
1,1-Dichloroethane	ND		ug/kg	0.76	0.11	1
Chloroform	ND		ug/kg	1.1	0.11	1
Carbon tetrachloride	ND		ug/kg	0.76	0.18	1
1,2-Dichloropropane	ND		ug/kg	0.76	0.10	1
Dibromochloromethane	ND		ug/kg	0.76	0.11	1
1,1,2-Trichloroethane	ND		ug/kg	0.76	0.20	1
Tetrachloroethene	ND		ug/kg	0.38	0.15	1
Chlorobenzene	ND		ug/kg	0.38	0.10	1
Trichlorofluoromethane	ND		ug/kg	3.0	0.53	1
1,2-Dichloroethane	ND		ug/kg	0.76	0.20	1
1,1,1-Trichloroethane	ND		ug/kg	0.38	0.13	1
Bromodichloromethane	ND		ug/kg	0.38	0.08	1
trans-1,3-Dichloropropene	ND		ug/kg	0.76	0.21	1
cis-1,3-Dichloropropene	ND		ug/kg	0.38	0.12	1
Bromoform	ND		ug/kg	3.0	0.19	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.38	0.13	1
Benzene	ND		ug/kg	0.38	0.13	1
Toluene	ND		ug/kg	0.76	0.41	1
Ethylbenzene	ND		ug/kg	0.76	0.11	1
Chloromethane	ND		ug/kg	3.0	0.71	1
Bromomethane	ND		ug/kg	1.5	0.44	1
Vinyl chloride	ND		ug/kg	0.76	0.26	1
Chloroethane	ND		ug/kg	1.5	0.34	1
1,1-Dichloroethene	ND		ug/kg	0.76	0.18	1
trans-1,2-Dichloroethene	ND		ug/kg	1.1	0.10	1
Trichloroethene	ND		ug/kg	0.38	0.10	1
1,2-Dichlorobenzene	ND		ug/kg	1.5	0.11	1

Project Name: TROY (WATER ST) PHASE 1A REMED **Lab Number:** L2228546

Project Number: TROY (WATER STREET) **Report Date:** 06/21/22

SAMPLE RESULTS

Lab ID: L2228546-10 Date Collected: 05/31/22 16:15

Client ID: TROY-CF-5A Date Received: 05/31/22

Sample Location: 8000 MAIN STREET, TROY, NY 12180 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	1.5	0.11	1
1,4-Dichlorobenzene	ND		ug/kg	1.5	0.13	1
Methyl tert butyl ether	ND		ug/kg	1.5	0.15	1
p/m-Xylene	ND		ug/kg	1.5	0.43	1
o-Xylene	ND		ug/kg	0.76	0.22	1
cis-1,2-Dichloroethene	ND		ug/kg	0.76	0.13	1
Styrene	ND		ug/kg	0.76	0.15	1
Dichlorodifluoromethane	ND		ug/kg	7.6	0.70	1
Acetone	ND		ug/kg	7.6	3.7	1
Carbon disulfide	ND		ug/kg	7.6	3.5	1
2-Butanone	ND		ug/kg	7.6	1.7	1
4-Methyl-2-pentanone	ND		ug/kg	7.6	0.98	1
2-Hexanone	ND		ug/kg	7.6	0.90	1
Bromochloromethane	ND		ug/kg	1.5	0.16	1
1,2-Dibromoethane	ND		ug/kg	0.76	0.21	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.3	0.76	1
Isopropylbenzene	ND		ug/kg	0.76	0.08	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.5	0.24	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.5	0.21	1
Methyl Acetate	ND		ug/kg	3.0	0.72	1
Cyclohexane	ND		ug/kg	7.6	0.42	1
1,4-Dioxane	ND		ug/kg	61	27.	1
Freon-113	ND		ug/kg	3.0	0.53	1
Methyl cyclohexane	ND		ug/kg	3.0	0.46	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	121		70-130

Project Name: TROY (WATER ST) PHASE 1A REMED **Lab Number:** L2228546

Project Number: TROY (WATER STREET) **Report Date:** 06/21/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/01/22 08:51
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-10 Batch: WG1645167-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15

Project Name: TROY (WATER ST) PHASE 1A REMED **Lab Number:** L2228546

Project Number: TROY (WATER STREET) **Report Date:** 06/21/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/01/22 08:51
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-10 Batch: WG1645167-5					
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Isopropylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
Methyl Acetate	ND		ug/kg	4.0	0.95
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	80	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Project Name: TROY (WATER ST) PHASE 1A REMED
Project Number: TROY (WATER STREET)
Lab Number: L2228546
Report Date: 06/21/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/01/22 08:51
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-10 Batch: WG1645167-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	109		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: TROY (WATER ST) PHASE 1A REMED

Project Number: TROY (WATER STREET)

Lab Number: L2228546

Report Date: 06/21/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-10 Batch: WG1645167-3 WG1645167-4								
Methylene chloride	102		100		70-130	2		30
1,1-Dichloroethane	114		111		70-130	3		30
Chloroform	106		103		70-130	3		30
Carbon tetrachloride	122		119		70-130	2		30
1,2-Dichloropropane	108		105		70-130	3		30
Dibromochloromethane	116		113		70-130	3		30
1,1,2-Trichloroethane	111		108		70-130	3		30
Tetrachloroethene	116		112		70-130	4		30
Chlorobenzene	105		102		70-130	3		30
Trichlorofluoromethane	103		96		70-139	7		30
1,2-Dichloroethane	101		99		70-130	2		30
1,1,1-Trichloroethane	113		111		70-130	2		30
Bromodichloromethane	110		108		70-130	2		30
trans-1,3-Dichloropropene	117		115		70-130	2		30
cis-1,3-Dichloropropene	115		115		70-130	0		30
Bromoform	113		112		70-130	1		30
1,1,2,2-Tetrachloroethane	108		112		70-130	4		30
Benzene	110		108		70-130	2		30
Toluene	107		104		70-130	3		30
Ethylbenzene	105		102		70-130	3		30
Chloromethane	116		112		52-130	4		30
Bromomethane	98		93		57-147	5		30
Vinyl chloride	105		99		67-130	6		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: TROY (WATER ST) PHASE 1A REMED

Project Number: TROY (WATER STREET)

Lab Number: L2228546

Report Date: 06/21/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-10 Batch: WG1645167-3 WG1645167-4								
Chloroethane	100		92		50-151	8		30
1,1-Dichloroethene	100		97		65-135	3		30
trans-1,2-Dichloroethene	112		108		70-130	4		30
Trichloroethene	111		108		70-130	3		30
1,2-Dichlorobenzene	102		102		70-130	0		30
1,3-Dichlorobenzene	105		104		70-130	1		30
1,4-Dichlorobenzene	103		103		70-130	0		30
Methyl tert butyl ether	99		102		66-130	3		30
p/m-Xylene	110		106		70-130	4		30
o-Xylene	106		104		70-130	2		30
cis-1,2-Dichloroethene	104		104		70-130	0		30
Styrene	110		106		70-130	4		30
Dichlorodifluoromethane	107		101		30-146	6		30
Acetone	97		101		54-140	4		30
Carbon disulfide	98		93		59-130	5		30
2-Butanone	110		116		70-130	5		30
4-Methyl-2-pentanone	103		107		70-130	4		30
2-Hexanone	101		108		70-130	7		30
Bromochloromethane	110		106		70-130	4		30
1,2-Dibromoethane	108		106		70-130	2		30
1,2-Dibromo-3-chloropropane	113		118		68-130	4		30
Isopropylbenzene	98		97		70-130	1		30
1,2,3-Trichlorobenzene	108		106		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: TROY (WATER ST) PHASE 1A REMED

Project Number: TROY (WATER STREET)

Lab Number: L2228546

Report Date: 06/21/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-10 Batch: WG1645167-3 WG1645167-4								
1,2,4-Trichlorobenzene	106		106		70-130	0		30
Methyl Acetate	104		107		51-146	3		30
Cyclohexane	113		112		59-142	1		30
1,4-Dioxane	98		104		65-136	6		30
Freon-113	104		100		50-139	4		30
Methyl cyclohexane	106		105		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	101		99		70-130
Toluene-d8	100		98		70-130
4-Bromofluorobenzene	92		93		70-130
Dibromofluoromethane	103		102		70-130

INORGANICS
&
MISCELLANEOUS

Project Name: TROY (WATER ST) PHASE 1A REMED
Project Number: TROY (WATER STREET)
Lab Number: L2228546
Report Date: 06/21/22

SAMPLE RESULTS

Lab ID: L2228546-01
Client ID: TROY-CF-1
Sample Location: 8000 MAIN STREET, TROY, NY 12180
Sample Depth:
Matrix: Soil

Date Collected: 05/31/22 14:00
Date Received: 05/31/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	96.5		%	0.100	NA	1	-	06/01/22 07:04	121,2540G	RI

Project Name: TROY (WATER ST) PHASE 1A REMED
Project Number: TROY (WATER STREET)
Lab Number: L2228546
Report Date: 06/21/22

SAMPLE RESULTS

Lab ID: L2228546-02
Client ID: TROY-CF-1A
Sample Location: 8000 MAIN STREET, TROY, NY 12180
Sample Depth:
Matrix: Soil

Date Collected: 05/31/22 14:15
Date Received: 05/31/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	95.9		%	0.100	NA	1	-	06/01/22 07:04	121,2540G	RI

Project Name: TROY (WATER ST) PHASE 1A REMED
Project Number: TROY (WATER STREET)
Lab Number: L2228546
Report Date: 06/21/22

SAMPLE RESULTS

Lab ID: L2228546-03
Client ID: TROY-CF-2
Sample Location: 8000 MAIN STREET, TROY, NY 12180
Sample Depth:
Matrix: Soil

Date Collected: 05/31/22 14:30
Date Received: 05/31/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	95.8		%	0.100	NA	1	-	06/01/22 07:04	121,2540G	RI

Project Name: TROY (WATER ST) PHASE 1A REMED
Project Number: TROY (WATER STREET)
Lab Number: L2228546
Report Date: 06/21/22

SAMPLE RESULTS

Lab ID: L2228546-04
Client ID: TROY-CF-2A
Sample Location: 8000 MAIN STREET, TROY, NY 12180
Sample Depth:
Matrix: Soil

Date Collected: 05/31/22 14:45
Date Received: 05/31/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	95.9		%	0.100	NA	1	-	06/01/22 07:04	121,2540G	RI

Project Name: TROY (WATER ST) PHASE 1A REMED
Project Number: TROY (WATER STREET)
Lab Number: L2228546
Report Date: 06/21/22

SAMPLE RESULTS

Lab ID: L2228546-05
Client ID: TROY-CF-3
Sample Location: 8000 MAIN STREET, TROY, NY 12180
Sample Depth:
Matrix: Soil

Date Collected: 05/31/22 15:00
Date Received: 05/31/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	95.4		%	0.100	NA	1	-	06/01/22 07:04	121,2540G	RI

Project Name: TROY (WATER ST) PHASE 1A REMED
Project Number: TROY (WATER STREET)
Lab Number: L2228546
Report Date: 06/21/22

SAMPLE RESULTS

Lab ID: L2228546-06
Client ID: TROY-CF-3A
Sample Location: 8000 MAIN STREET, TROY, NY 12180
Sample Depth:
Matrix: Soil

Date Collected: 05/31/22 15:15
Date Received: 05/31/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	95.4		%	0.100	NA	1	-	06/01/22 07:04	121,2540G	RI

Project Name: TROY (WATER ST) PHASE 1A REMED
Project Number: TROY (WATER STREET)
Lab Number: L2228546
Report Date: 06/21/22

SAMPLE RESULTS

Lab ID: L2228546-07
Client ID: TROY-CF-4
Sample Location: 8000 MAIN STREET, TROY, NY 12180
Sample Depth:
Matrix: Soil

Date Collected: 05/31/22 15:30
Date Received: 05/31/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	96.4		%	0.100	NA	1	-	06/01/22 07:04	121,2540G	RI

Project Name: TROY (WATER ST) PHASE 1A REMED
Project Number: TROY (WATER STREET)
Lab Number: L2228546
Report Date: 06/21/22

SAMPLE RESULTS

Lab ID: L2228546-08
Client ID: TROY-CF-4A
Sample Location: 8000 MAIN STREET, TROY, NY 12180
Sample Depth:
Matrix: Soil

Date Collected: 05/31/22 15:45
Date Received: 05/31/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	95.5		%	0.100	NA	1	-	06/01/22 07:04	121,2540G	RI

Project Name: TROY (WATER ST) PHASE 1A REMED
Project Number: TROY (WATER STREET)
Lab Number: L2228546
Report Date: 06/21/22

SAMPLE RESULTS

Lab ID: L2228546-09
Client ID: TROY-CF-5
Sample Location: 8000 MAIN STREET, TROY, NY 12180
Sample Depth:
Matrix: Soil

Date Collected: 05/31/22 16:00
Date Received: 05/31/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.9		%	0.100	NA	1	-	06/01/22 07:04	121,2540G	RI

Project Name: TROY (WATER ST) PHASE 1A REMED
Project Number: TROY (WATER STREET)
Lab Number: L2228546
Report Date: 06/21/22

SAMPLE RESULTS

Lab ID: L2228546-10
Client ID: TROY-CF-5A
Sample Location: 8000 MAIN STREET, TROY, NY 12180
Sample Depth:
Matrix: Soil

Date Collected: 05/31/22 16:15
Date Received: 05/31/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	96.7		%	0.100	NA	1	-	06/01/22 07:04	121,2540G	RI

Lab Duplicate Analysis

Batch Quality Control

Project Name: TROY (WATER ST) PHASE 1A REMED

Project Number: TROY (WATER STREET)

Lab Number: L2228546

Report Date: 06/21/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1645016-1 QC Sample: L2228546-01 Client ID: TROY-CF-1						
Solids, Total	96.5	96.3	%	0		20

Project Name: TROY (WATER ST) PHASE 1A REMED
Project Number: TROY (WATER STREET)

Lab Number: L2228546
Report Date: 06/21/22

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2228546-01A	Vial MeOH preserved	A	NA		4.1	Y	Absent		NYTCL-8260HLW-R2(14)
L2228546-01B	Vial water preserved	A	NA		4.1	Y	Absent	01-JUN-22 02:10	NYTCL-8260HLW-R2(14)
L2228546-01C	Vial water preserved	A	NA		4.1	Y	Absent	01-JUN-22 02:10	NYTCL-8260HLW-R2(14)
L2228546-01D	Plastic 2oz unpreserved for TS	A	NA		4.1	Y	Absent		TS(7)
L2228546-02A	Vial MeOH preserved	A	NA		4.1	Y	Absent		NYTCL-8260HLW-R2(14)
L2228546-02B	Vial water preserved	A	NA		4.1	Y	Absent	01-JUN-22 02:10	NYTCL-8260HLW-R2(14)
L2228546-02C	Vial water preserved	A	NA		4.1	Y	Absent	01-JUN-22 02:10	NYTCL-8260HLW-R2(14)
L2228546-02D	Plastic 2oz unpreserved for TS	A	NA		4.1	Y	Absent		TS(7)
L2228546-03A	Vial MeOH preserved	A	NA		4.1	Y	Absent		NYTCL-8260HLW-R2(14)
L2228546-03B	Vial water preserved	A	NA		4.1	Y	Absent	01-JUN-22 02:10	NYTCL-8260HLW-R2(14)
L2228546-03C	Vial water preserved	A	NA		4.1	Y	Absent	01-JUN-22 02:10	NYTCL-8260HLW-R2(14)
L2228546-03D	Plastic 2oz unpreserved for TS	A	NA		4.1	Y	Absent		TS(7)
L2228546-04A	Vial MeOH preserved	A	NA		4.1	Y	Absent		NYTCL-8260HLW-R2(14)
L2228546-04B	Vial water preserved	A	NA		4.1	Y	Absent	01-JUN-22 02:10	NYTCL-8260HLW-R2(14)
L2228546-04C	Vial water preserved	A	NA		4.1	Y	Absent	01-JUN-22 02:10	NYTCL-8260HLW-R2(14)
L2228546-04D	Plastic 2oz unpreserved for TS	A	NA		4.1	Y	Absent		TS(7)
L2228546-05A	Vial MeOH preserved	A	NA		4.1	Y	Absent		NYTCL-8260HLW-R2(14)
L2228546-05B	Vial water preserved	A	NA		4.1	Y	Absent	01-JUN-22 02:10	NYTCL-8260HLW-R2(14)
L2228546-05C	Vial water preserved	A	NA		4.1	Y	Absent	01-JUN-22 02:10	NYTCL-8260HLW-R2(14)
L2228546-05D	Plastic 2oz unpreserved for TS	A	NA		4.1	Y	Absent		TS(7)
L2228546-06A	Vial MeOH preserved	A	NA		4.1	Y	Absent		NYTCL-8260HLW-R2(14)
L2228546-06B	Vial water preserved	A	NA		4.1	Y	Absent	01-JUN-22 02:10	NYTCL-8260HLW-R2(14)
L2228546-06C	Vial water preserved	A	NA		4.1	Y	Absent	01-JUN-22 02:10	NYTCL-8260HLW-R2(14)

*Values in parentheses indicate holding time in days

Project Name: TROY (WATER ST) PHASE 1A REMED
Project Number: TROY (WATER STREET)

Lab Number: L2228546
Report Date: 06/21/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2228546-06D	Plastic 2oz unpreserved for TS	A	NA		4.1	Y	Absent		TS(7)
L2228546-07A	Vial MeOH preserved	A	NA		4.1	Y	Absent		NYTCL-8260HLW-R2(14)
L2228546-07B	Vial water preserved	A	NA		4.1	Y	Absent	01-JUN-22 02:10	NYTCL-8260HLW-R2(14)
L2228546-07C	Vial water preserved	A	NA		4.1	Y	Absent	01-JUN-22 02:10	NYTCL-8260HLW-R2(14)
L2228546-07D	Plastic 2oz unpreserved for TS	A	NA		4.1	Y	Absent		TS(7)
L2228546-08A	Vial MeOH preserved	A	NA		4.1	Y	Absent		NYTCL-8260HLW-R2(14)
L2228546-08B	Vial water preserved	A	NA		4.1	Y	Absent	01-JUN-22 02:10	NYTCL-8260HLW-R2(14)
L2228546-08C	Vial water preserved	A	NA		4.1	Y	Absent	01-JUN-22 02:10	NYTCL-8260HLW-R2(14)
L2228546-08D	Plastic 2oz unpreserved for TS	A	NA		4.1	Y	Absent		TS(7)
L2228546-09A	Vial MeOH preserved	A	NA		4.1	Y	Absent		NYTCL-8260HLW-R2(14)
L2228546-09B	Vial water preserved	A	NA		4.1	Y	Absent	01-JUN-22 02:10	NYTCL-8260HLW-R2(14)
L2228546-09C	Vial water preserved	A	NA		4.1	Y	Absent	01-JUN-22 02:10	NYTCL-8260HLW-R2(14)
L2228546-09D	Plastic 2oz unpreserved for TS	A	NA		4.1	Y	Absent		TS(7)
L2228546-10A	Vial MeOH preserved	A	NA		4.1	Y	Absent		NYTCL-8260HLW-R2(14)
L2228546-10B	Vial water preserved	A	NA		4.1	Y	Absent	01-JUN-22 02:10	NYTCL-8260HLW-R2(14)
L2228546-10C	Vial water preserved	A	NA		4.1	Y	Absent	01-JUN-22 02:10	NYTCL-8260HLW-R2(14)
L2228546-10D	Plastic 2oz unpreserved for TS	A	NA		4.1	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name:	TROY (WATER ST) PHASE 1A REMED	**Lab Number:**	L2228546
Project Number:	TROY (WATER STREET)	**Report Date:**	06/21/22

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	TROY (WATER ST) PHASE 1A REMED	**Lab Number:**	L2228546
Project Number:	TROY (WATER STREET)	**Report Date:**	06/21/22

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name:	TROY (WATER ST) PHASE 1A REMED	**Lab Number:**	L2228546
Project Number:	TROY (WATER STREET)	**Report Date:**	06/21/22

Data Qualifiers

Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name:	TROY (WATER ST) PHASE 1A REMED	**Lab Number:**	L2228546
Project Number:	TROY (WATER STREET)	**Report Date:**	06/21/22

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

NEW YORK CHAIN OF CUSTODY

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab 06/01/22

ALPHA Job # L2228546

Client Information
Client: LAND Remediation
Address: 74 Hudson River Road,
Waterford, NY 12188
Phone: 203.233.4100
Fax:
Email: jlb@land-remediation.com

Project Information
Project Name: Troy (Water Street) Phase 1A Remediation
Project Location: 8000 Main Street, Troy, NY 12180
Project #
(Use Project name as Project #) ☑
Project Manager: Jonathan Borrelli
ALPHAQuote #:

Turn-Around Time
Standard ☐ Due Date:
Rush (only if pre approved) ☐ # of Days: 3 Day

Deliverables
☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☐ Same as Client Info
PO #

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☑ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL VOCs 5035A 8260B	Sample Specific Comments	Total Bottle
2228546-01	Troy - CF - 1	5.31.2022	14:00	Sand	KG	X	DER-10	
-02	Troy - CF - 1A	5.31.2022	14:15	Sand	KG	X	DER-10	
-03	Troy - CF - 2	5.31.2022	14:30	Sand	KG	X	DER-10	
-04	Troy - CF - 2A	5.31.2022	14:45	Sand	KG	X	DER-10	
-05	Troy - CF - 3	5.31.2022	15:00	Sand	KG	X	DER-10	
-06	Troy - CF - 3A	5.31.2022	15:15	Sand	KG	X	DER-10	
-07	Troy - CF - 4	5.31.2022	15:30	Sand	KG	X	DER-10	
-08	Troy - CF - 4A	5.31.2022	15:45	Sand	KG	X	DER-10	
-09	Troy - CF - 5	5.31.2022	16:00	Sand	KG	X	DER-10	
-10	Troy - CF - 5A	5.31.2022	16:15	Sand	KG	X	DER-10	

Container Type	V													
Preservative														

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
Jonathan Borrelli	5/31/22 /	Secured Storage	5/31/22
Secured Storage	5/31/22 21:30		5/31/22 21:30
	5/31/22 21:30		6/1/22 09:20

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.

Form No: 01-25 (rev. 30-Sept-2013)

Attachment 4 - PFAS and 1,4-Dioxane Analytical Results

eurofins | Environment Testing America



ANALYTICAL REPORT

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-84933-1
Client Project/Site: Troy NY Water

For:
Brown and Caldwell
500 North Franklin Turnpike
Suite 306
Ramsey, New Jersey 07446

Attn: Mr. James L Marolda

Barb Weyandt

Authorized for release by:
6/10/2022 2:53:23 AM

Barbara Weyandt, Project Manager
(717)556-7264
Barbara.Weyandt@et.eurofinsus.com

LINKS

Review your project results through my EOL

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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Barb Weyandt

Barbara Weyandt
Project Manager
6/10/2022 2:53:23 AM

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Definitions/Glossary

Client: Brown and Caldwell
Project/Site: Troy NY Water

Job ID: 410-84933-1

Qualifiers

LCMS

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
cn	Refer to Case Narrative for further detail
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 410-84933-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Narrative

Job Narrative
410-84933-1

Receipt
The samples were received on 5/21/2022 10:05 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.7°C and 2.1°C

GC/MS Semi VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

LCMS
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

PFAS
Method PFC_IDA: Target analyte(s) were detected in the method blank associated with the following sample: FB-01-05202022 (410-84933-7). The following action was taken: This sample(s) was re-extracted outside of the required holding time and target analyte(s) were again detected in the re-extracted method blank.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Brown and Caldwell
Project/Site: Troy NY Water

Job ID: 410-84933-1

Client Sample ID: Fill-1-05202022 — Lab Sample ID: 410-84933-1

No Detections.

Client Sample ID: Fill-2-05202022 — Lab Sample ID: 410-84933-2

No Detections.

Client Sample ID: Fill-3-05202022 — Lab Sample ID: 410-84933-3

No Detections.

Client Sample ID: Fill-4-05202022 — Lab Sample ID: 410-84933-4

No Detections.

Client Sample ID: Fill-5-05202022 — Lab Sample ID: 410-84933-5

No Detections.

Client Sample ID: DUP-1-05202022 — Lab Sample ID: 410-84933-6

No Detections.

Client Sample ID: FB-01-05202022 — Lab Sample ID: 410-84933-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.38		0.31	0.10	ug/L	1		8270E SIM	Total/NA
Perfluorooctanesulfonic acid	0.71	J B cn	1.7	0.43	ng/L	1		537 IDA	Total/NA
Perfluorooctanesulfonamide	0.47	J cn	1.7	0.43	ng/L	1		537 IDA	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Brown and Caldwell
Project/Site: Troy NY Water

Job ID: 410-84933-1

Client Sample ID: Fill-1-05202022
Date Collected: 05/20/22 08:10
Date Received: 05/21/22 10:05

Lab Sample ID: 410-84933-1
Matrix: Solid
Percent Solids: 93.4

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		3.2	1.4	ug/Kg	☼	06/03/22 17:52	06/06/22 21:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*103*		*19 - 133*	*06/03/22 17:52*	*06/06/22 21:06*	*1*
Fluoranthene-d10 (Surr)	*95*		*22 - 152*	*06/03/22 17:52*	*06/06/22 21:06*	*1*
1-Methylnaphthalene-d10 (Surr)	*93*		*26 - 123*	*06/03/22 17:52*	*06/06/22 21:06*	*1*

Method: 537 (Modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.21	0.020	ng/g	☼	05/25/22 16:13	06/02/22 22:26	1
Perfluoroheptanoic acid	ND		0.21	0.025	ng/g	☼	05/25/22 16:13	06/02/22 22:26	1
Perfluorooctanoic acid	ND		0.21	0.023	ng/g	☼	05/25/22 16:13	06/02/22 22:26	1
Perfluorononanoic acid	ND		0.21	0.024	ng/g	☼	05/25/22 16:13	06/02/22 22:26	1
Perfluorodecanoic acid	ND		0.21	0.025	ng/g	☼	05/25/22 16:13	06/02/22 22:26	1
Perfluorotridecanoic acid	ND		0.21	0.022	ng/g	☼	05/25/22 16:13	06/02/22 22:26	1
Perfluorotetradecanoic acid	ND		0.21	0.025	ng/g	☼	05/25/22 16:13	06/02/22 22:26	1
Perfluorobutanesulfonic acid	ND		0.42	0.38	ng/g	☼	05/25/22 16:13	06/02/22 22:26	1
Perfluorohexanesulfonic acid	ND		0.21	0.020	ng/g	☼	05/25/22 16:13	06/02/22 22:26	1
Perfluorooctanesulfonic acid	ND		0.21	0.037	ng/g	☼	05/25/22 16:13	06/02/22 22:26	1
NEtFOSAA	ND		0.21	0.023	ng/g	☼	05/25/22 16:13	06/02/22 22:26	1
NMeFOSAA	ND		0.21	0.033	ng/g	☼	05/25/22 16:13	06/02/22 22:26	1
Perfluoroheptanesulfonic acid	ND		0.21	0.021	ng/g	☼	05/25/22 16:13	06/02/22 22:26	1
Perfluorodecanesulfonic acid	ND		0.21	0.022	ng/g	☼	05/25/22 16:13	06/02/22 22:26	1
Perfluorooctanesulfonamide	ND		0.21	0.022	ng/g	☼	05/25/22 16:13	06/02/22 22:26	1
Perfluorobutanoic acid	ND		0.21	0.025	ng/g	☼	05/25/22 16:13	06/02/22 22:26	1
Perfluoroundecanoic acid	ND		0.21	0.059	ng/g	☼	05/25/22 16:13	06/02/22 22:26	1
Perfluorododecanoic acid	ND		0.21	0.024	ng/g	☼	05/25/22 16:13	06/02/22 22:26	1
6:2 Fluorotelomer sulfonic acid	ND		0.21	0.052	ng/g	☼	05/25/22 16:13	06/02/22 22:26	1
8:2 Fluorotelomer sulfonic acid	ND		0.21	0.018	ng/g	☼	05/25/22 16:13	06/02/22 22:26	1
Perfluoropentanoic acid	ND		0.21	0.025	ng/g	☼	05/25/22 16:13	06/02/22 22:26	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-8:2 FTS	*117*		*15 - 200*	*05/25/22 16:13*	*06/02/22 22:26*	*1*
M2-6:2 FTS	*133*		*10 - 200*	*05/25/22 16:13*	*06/02/22 22:26*	*1*
13C5 PFHxA	*104*		*10 - 174*	*05/25/22 16:13*	*06/02/22 22:26*	*1*
13C4 PFHpA	*107*		*10 - 178*	*05/25/22 16:13*	*06/02/22 22:26*	*1*
13C8 PFOA	*103*		*26 - 159*	*05/25/22 16:13*	*06/02/22 22:26*	*1*
13C9 PFNA	*118*		*26 - 165*	*05/25/22 16:13*	*06/02/22 22:26*	*1*
13C6 PFDA	*109*		*26 - 161*	*05/25/22 16:13*	*06/02/22 22:26*	*1*
13C7 PFUnA	*101*		*12 - 173*	*05/25/22 16:13*	*06/02/22 22:26*	*1*
13C2-PFDoDA	*95*		*11 - 166*	*05/25/22 16:13*	*06/02/22 22:26*	*1*
13C2 PFTeDA	*95*		*10 - 169*	*05/25/22 16:13*	*06/02/22 22:26*	*1*
13C3 PFBS	*94*		*27 - 179*	*05/25/22 16:13*	*06/02/22 22:26*	*1*
13C3 PFHxS	*102*		*24 - 171*	*05/25/22 16:13*	*06/02/22 22:26*	*1*
13C8 PFOS	*104*		*41 - 154*	*05/25/22 16:13*	*06/02/22 22:26*	*1*
d3-NMeFOSAA	*62*		*10 - 178*	*05/25/22 16:13*	*06/02/22 22:26*	*1*
d5-NEtFOSAA	*70*		*10 - 193*	*05/25/22 16:13*	*06/02/22 22:26*	*1*
13C8 FOSA	*55*		*14 - 163*	*05/25/22 16:13*	*06/02/22 22:26*	*1*
13C4 PFBA	*98*		*28 - 153*	*05/25/22 16:13*	*06/02/22 22:26*	*1*
13C5 PFPeA	*119*		*24 - 161*	*05/25/22 16:13*	*06/02/22 22:26*	*1*

Client Sample ID: Fill-1-05202022

Lab Sample ID: 410-84933-1

Date Collected: 05/20/22 08:10
Matrix: Solid
Date Received: 05/21/22 10:05
Percent Solids: 93.4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.6		1.0	1.0	%			05/25/22 11:42	1
Percent Solids	93.4		1.0	1.0	%			05/25/22 11:42	1

Client Sample ID: Fill-2-05202022

Lab Sample ID: 410-84933-2

Date Collected: 05/20/22 08:15
Matrix: Solid
Date Received: 05/21/22 10:05
Percent Solids: 95.8

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		3.1	1.4	ug/Kg	☼	06/03/22 17:52	06/06/22 21:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*100*		*19 - 133*	*06/03/22 17:52*	*06/06/22 21:37*	*1*
Fluoranthene-d10 (Surr)	*94*		*22 - 152*	*06/03/22 17:52*	*06/06/22 21:37*	*1*
1-Methylnaphthalene-d10 (Surr)	*90*		*26 - 123*	*06/03/22 17:52*	*06/06/22 21:37*	*1*

Method: 537 (Modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.21	0.020	ng/g	☼	05/25/22 16:13	06/02/22 22:59	1
Perfluoroheptanoic acid	ND		0.21	0.025	ng/g	☼	05/25/22 16:13	06/02/22 22:59	1
Perfluorooctanoic acid	ND		0.21	0.023	ng/g	☼	05/25/22 16:13	06/02/22 22:59	1
Perfluorononanoic acid	ND		0.21	0.024	ng/g	☼	05/25/22 16:13	06/02/22 22:59	1
Perfluorodecanoic acid	ND		0.21	0.025	ng/g	☼	05/25/22 16:13	06/02/22 22:59	1
Perfluorotridecanoic acid	ND		0.21	0.022	ng/g	☼	05/25/22 16:13	06/02/22 22:59	1
Perfluorotetradecanoic acid	ND		0.21	0.025	ng/g	☼	05/25/22 16:13	06/02/22 22:59	1
Perfluorobutanesulfonic acid	ND		0.41	0.37	ng/g	☼	05/25/22 16:13	06/02/22 22:59	1
Perfluorohexanesulfonic acid	ND		0.21	0.020	ng/g	☼	05/25/22 16:13	06/02/22 22:59	1
Perfluorooctanesulfonic acid	ND		0.21	0.036	ng/g	☼	05/25/22 16:13	06/02/22 22:59	1
NEtFOSAA	ND		0.21	0.023	ng/g	☼	05/25/22 16:13	06/02/22 22:59	1
NMeFOSAA	ND		0.21	0.032	ng/g	☼	05/25/22 16:13	06/02/22 22:59	1
Perfluoroheptanesulfonic acid	ND		0.21	0.021	ng/g	☼	05/25/22 16:13	06/02/22 22:59	1
Perfluorodecanesulfonic acid	ND		0.21	0.022	ng/g	☼	05/25/22 16:13	06/02/22 22:59	1
Perfluorooctanesulfonamide	ND		0.21	0.022	ng/g	☼	05/25/22 16:13	06/02/22 22:59	1
Perfluorobutanoic acid	ND		0.21	0.025	ng/g	☼	05/25/22 16:13	06/02/22 22:59	1
Perfluoroundecanoic acid	ND		0.21	0.058	ng/g	☼	05/25/22 16:13	06/02/22 22:59	1
Perfluorododecanoic acid	ND		0.21	0.024	ng/g	☼	05/25/22 16:13	06/02/22 22:59	1
6:2 Fluorotelomer sulfonic acid	ND		0.21	0.051	ng/g	☼	05/25/22 16:13	06/02/22 22:59	1
8:2 Fluorotelomer sulfonic acid	ND		0.21	0.018	ng/g	☼	05/25/22 16:13	06/02/22 22:59	1
Perfluoropentanoic acid	ND		0.21	0.025	ng/g	☼	05/25/22 16:13	06/02/22 22:59	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-8:2 FTS	*116*		*15 - 200*	*05/25/22 16:13*	*06/02/22 22:59*	*1*
M2-6:2 FTS	*136*		*10 - 200*	*05/25/22 16:13*	*06/02/22 22:59*	*1*
13C5 PFHxA	*98*		*10 - 174*	*05/25/22 16:13*	*06/02/22 22:59*	*1*
13C4 PFHpA	*102*		*10 - 178*	*05/25/22 16:13*	*06/02/22 22:59*	*1*
13C8 PFOA	*102*		*26 - 159*	*05/25/22 16:13*	*06/02/22 22:59*	*1*
13C9 PFNA	*111*		*26 - 165*	*05/25/22 16:13*	*06/02/22 22:59*	*1*
13C6 PFDA	*105*		*26 - 161*	*05/25/22 16:13*	*06/02/22 22:59*	*1*
13C7 PFUnA	*107*		*12 - 173*	*05/25/22 16:13*	*06/02/22 22:59*	*1*
13C2-PFDoDA	*94*		*11 - 166*	*05/25/22 16:13*	*06/02/22 22:59*	*1*
13C2 PFTeDA	*94*		*10 - 169*	*05/25/22 16:13*	*06/02/22 22:59*	*1*

Client Sample ID: Fill-2-05202022

Lab Sample ID: 410-84933-2

Date Collected: 05/20/22 08:15
Matrix: Solid
Date Received: 05/21/22 10:05
Percent Solids: 95.8

Method: 537 (Modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 PFBS	*92*		*27 - 179*	*05/25/22 16:13*	*06/02/22 22:59*	*1*
13C3 PFHxS	*100*		*24 - 171*	*05/25/22 16:13*	*06/02/22 22:59*	*1*
13C8 PFOS	*106*		*41 - 154*	*05/25/22 16:13*	*06/02/22 22:59*	*1*
d3-NMeFOSAA	*66*		*10 - 178*	*05/25/22 16:13*	*06/02/22 22:59*	*1*
d5-NEtFOSAA	*72*		*10 - 193*	*05/25/22 16:13*	*06/02/22 22:59*	*1*
13C8 FOSA	*62*		*14 - 163*	*05/25/22 16:13*	*06/02/22 22:59*	*1*
13C4 PFBA	*99*		*28 - 153*	*05/25/22 16:13*	*06/02/22 22:59*	*1*
13C5 PFPeA	*118*		*24 - 161*	*05/25/22 16:13*	*06/02/22 22:59*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**4.2**		1.0	1.0	%			05/25/22 11:42	1
Percent Solids	**95.8**		1.0	1.0	%			05/25/22 11:42	1

Client Sample ID: Fill-3-05202022

Lab Sample ID: 410-84933-3

Date Collected: 05/20/22 08:20
Matrix: Solid
Date Received: 05/21/22 10:05
Percent Solids: 93.4

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		3.2	1.4	ug/Kg	☼	06/03/22 17:52	06/06/22 22:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*96*		*19 - 133*	*06/03/22 17:52*	*06/06/22 22:09*	*1*
Fluoranthene-d10 (Surr)	*89*		*22 - 152*	*06/03/22 17:52*	*06/06/22 22:09*	*1*
1-Methylnaphthalene-d10 (Surr)	*86*		*26 - 123*	*06/03/22 17:52*	*06/06/22 22:09*	*1*

Method: 537 (Modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.21	0.020	ng/g	☼	05/25/22 16:13	06/02/22 23:10	1
Perfluoroheptanoic acid	ND		0.21	0.026	ng/g	☼	05/25/22 16:13	06/02/22 23:10	1
Perfluorooctanoic acid	ND		0.21	0.023	ng/g	☼	05/25/22 16:13	06/02/22 23:10	1
Perfluorononanoic acid	ND		0.21	0.024	ng/g	☼	05/25/22 16:13	06/02/22 23:10	1
Perfluorodecanoic acid	ND		0.21	0.026	ng/g	☼	05/25/22 16:13	06/02/22 23:10	1
Perfluorotridecanoic acid	ND		0.21	0.022	ng/g	☼	05/25/22 16:13	06/02/22 23:10	1
Perfluorotetradecanoic acid	ND		0.21	0.026	ng/g	☼	05/25/22 16:13	06/02/22 23:10	1
Perfluorobutanesulfonic acid	ND		0.43	0.38	ng/g	☼	05/25/22 16:13	06/02/22 23:10	1
Perfluorohexanesulfonic acid	ND		0.21	0.020	ng/g	☼	05/25/22 16:13	06/02/22 23:10	1
Perfluorooctanesulfonic acid	ND		0.21	0.037	ng/g	☼	05/25/22 16:13	06/02/22 23:10	1
NEtFOSAA	ND		0.21	0.023	ng/g	☼	05/25/22 16:13	06/02/22 23:10	1
NMeFOSAA	ND		0.21	0.033	ng/g	☼	05/25/22 16:13	06/02/22 23:10	1
Perfluoroheptanesulfonic acid	ND		0.21	0.021	ng/g	☼	05/25/22 16:13	06/02/22 23:10	1
Perfluorodecanesulfonic acid	ND		0.21	0.022	ng/g	☼	05/25/22 16:13	06/02/22 23:10	1
Perfluorooctanesulfonamide	ND		0.21	0.022	ng/g	☼	05/25/22 16:13	06/02/22 23:10	1
Perfluorobutanoic acid	ND		0.21	0.026	ng/g	☼	05/25/22 16:13	06/02/22 23:10	1
Perfluoroundecanoic acid	ND		0.21	0.060	ng/g	☼	05/25/22 16:13	06/02/22 23:10	1
Perfluorododecanoic acid	ND		0.21	0.024	ng/g	☼	05/25/22 16:13	06/02/22 23:10	1
6:2 Fluorotelomer sulfonic acid	ND		0.21	0.052	ng/g	☼	05/25/22 16:13	06/02/22 23:10	1
8:2 Fluorotelomer sulfonic acid	ND		0.21	0.018	ng/g	☼	05/25/22 16:13	06/02/22 23:10	1
Perfluoropentanoic acid	ND		0.21	0.026	ng/g	☼	05/25/22 16:13	06/02/22 23:10	1

Client Sample ID: Fill-3-05202022

Lab Sample ID: 410-84933-3

Date Collected: 05/20/22 08:20
Matrix: Solid
Date Received: 05/21/22 10:05
Percent Solids: 93.4

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-8:2 FTS	*126*		*15 - 200*	*05/25/22 16:13*	*06/02/22 23:10*	*1*
M2-6:2 FTS	*138*		*10 - 200*	*05/25/22 16:13*	*06/02/22 23:10*	*1*
13C5 PFHxA	*101*		*10 - 174*	*05/25/22 16:13*	*06/02/22 23:10*	*1*
13C4 PFHpA	*105*		*10 - 178*	*05/25/22 16:13*	*06/02/22 23:10*	*1*
13C8 PFOA	*102*		*26 - 159*	*05/25/22 16:13*	*06/02/22 23:10*	*1*
13C9 PFNA	*108*		*26 - 165*	*05/25/22 16:13*	*06/02/22 23:10*	*1*
13C6 PFDA	*106*		*26 - 161*	*05/25/22 16:13*	*06/02/22 23:10*	*1*
13C7 PFUnA	*97*		*12 - 173*	*05/25/22 16:13*	*06/02/22 23:10*	*1*
13C2-PFDoDA	*95*		*11 - 166*	*05/25/22 16:13*	*06/02/22 23:10*	*1*
13C2 PFTeDA	*93*		*10 - 169*	*05/25/22 16:13*	*06/02/22 23:10*	*1*
13C3 PFBS	*98*		*27 - 179*	*05/25/22 16:13*	*06/02/22 23:10*	*1*
13C3 PFHxS	*106*		*24 - 171*	*05/25/22 16:13*	*06/02/22 23:10*	*1*
13C8 PFOS	*105*		*41 - 154*	*05/25/22 16:13*	*06/02/22 23:10*	*1*
d3-NMeFOSAA	*48*		*10 - 178*	*05/25/22 16:13*	*06/02/22 23:10*	*1*
d5-NEtFOSAA	*55*		*10 - 193*	*05/25/22 16:13*	*06/02/22 23:10*	*1*
13C8 FOSA	*69*		*14 - 163*	*05/25/22 16:13*	*06/02/22 23:10*	*1*
13C4 PFBA	*98*		*28 - 153*	*05/25/22 16:13*	*06/02/22 23:10*	*1*
13C5 PFPeA	*116*		*24 - 161*	*05/25/22 16:13*	*06/02/22 23:10*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**6.6**		1.0	1.0	%			05/25/22 11:42	1
Percent Solids	**93.4**		1.0	1.0	%			05/25/22 11:42	1

Client Sample ID: Fill-4-05202022

Lab Sample ID: 410-84933-4

Date Collected: 05/20/22 08:25
Matrix: Solid
Date Received: 05/21/22 10:05
Percent Solids: 93.2

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		3.2	1.4	ug/Kg	☼	06/03/22 17:52	06/06/22 22:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*104*		*19 - 133*	*06/03/22 17:52*	*06/06/22 22:40*	*1*
Fluoranthene-d10 (Surr)	*100*		*22 - 152*	*06/03/22 17:52*	*06/06/22 22:40*	*1*
1-Methylnaphthalene-d10 (Surr)	*96*		*26 - 123*	*06/03/22 17:52*	*06/06/22 22:40*	*1*

Method: 537 (Modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.21	0.020	ng/g	☼	05/25/22 16:13	06/02/22 23:21	1
Perfluoroheptanoic acid	ND		0.21	0.026	ng/g	☼	05/25/22 16:13	06/02/22 23:21	1
Perfluorooctanoic acid	ND		0.21	0.023	ng/g	☼	05/25/22 16:13	06/02/22 23:21	1
Perfluorononanoic acid	ND		0.21	0.025	ng/g	☼	05/25/22 16:13	06/02/22 23:21	1
Perfluorodecanoic acid	ND		0.21	0.026	ng/g	☼	05/25/22 16:13	06/02/22 23:21	1
Perfluorotridecanoic acid	ND		0.21	0.022	ng/g	☼	05/25/22 16:13	06/02/22 23:21	1
Perfluorotetradecanoic acid	ND		0.21	0.026	ng/g	☼	05/25/22 16:13	06/02/22 23:21	1
Perfluorobutanesulfonic acid	ND		0.43	0.39	ng/g	☼	05/25/22 16:13	06/02/22 23:21	1
Perfluorohexanesulfonic acid	ND		0.21	0.020	ng/g	☼	05/25/22 16:13	06/02/22 23:21	1
Perfluorooctanesulfonic acid	ND		0.21	0.037	ng/g	☼	05/25/22 16:13	06/02/22 23:21	1
NEtFOSAA	ND		0.21	0.023	ng/g	☼	05/25/22 16:13	06/02/22 23:21	1
NMeFOSAA	ND		0.21	0.033	ng/g	☼	05/25/22 16:13	06/02/22 23:21	1
Perfluoroheptanesulfonic acid	ND		0.21	0.021	ng/g	☼	05/25/22 16:13	06/02/22 23:21	1

Client Sample ID: Fill-4-05202022

Lab Sample ID: 410-84933-4

Date Collected: 05/20/22 08:25
Matrix: Solid
Date Received: 05/21/22 10:05
Percent Solids: 93.2

Method: 537 (Modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorodecanesulfonic acid	ND		0.21	0.022	ng/g	☼	05/25/22 16:13	06/02/22 23:21	1
Perfluorooctanesulfonamide	ND		0.21	0.022	ng/g	☼	05/25/22 16:13	06/02/22 23:21	1
Perfluorobutanoic acid	ND		0.21	0.026	ng/g	☼	05/25/22 16:13	06/02/22 23:21	1
Perfluoroundecanoic acid	ND		0.21	0.060	ng/g	☼	05/25/22 16:13	06/02/22 23:21	1
Perfluorododecanoic acid	ND		0.21	0.025	ng/g	☼	05/25/22 16:13	06/02/22 23:21	1
6:2 Fluorotelomer sulfonic acid	ND		0.21	0.052	ng/g	☼	05/25/22 16:13	06/02/22 23:21	1
8:2 Fluorotelomer sulfonic acid	ND		0.21	0.018	ng/g	☼	05/25/22 16:13	06/02/22 23:21	1
Perfluoropentanoic acid	ND		0.21	0.026	ng/g	☼	05/25/22 16:13	06/02/22 23:21	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-8:2 FTS	*122*		*15 - 200*	*05/25/22 16:13*	*06/02/22 23:21*	*1*
M2-6:2 FTS	*141*		*10 - 200*	*05/25/22 16:13*	*06/02/22 23:21*	*1*
13C5 PFHxA	*104*		*10 - 174*	*05/25/22 16:13*	*06/02/22 23:21*	*1*
13C4 PFHpA	*108*		*10 - 178*	*05/25/22 16:13*	*06/02/22 23:21*	*1*
13C8 PFOA	*109*		*26 - 159*	*05/25/22 16:13*	*06/02/22 23:21*	*1*
13C9 PFNA	*113*		*26 - 165*	*05/25/22 16:13*	*06/02/22 23:21*	*1*
13C6 PFDA	*111*		*26 - 161*	*05/25/22 16:13*	*06/02/22 23:21*	*1*
13C7 PFUnA	*108*		*12 - 173*	*05/25/22 16:13*	*06/02/22 23:21*	*1*
13C2-PFDoDA	*95*		*11 - 166*	*05/25/22 16:13*	*06/02/22 23:21*	*1*
13C2 PFTeDA	*92*		*10 - 169*	*05/25/22 16:13*	*06/02/22 23:21*	*1*
13C3 PFBS	*96*		*27 - 179*	*05/25/22 16:13*	*06/02/22 23:21*	*1*
13C3 PFHxS	*111*		*24 - 171*	*05/25/22 16:13*	*06/02/22 23:21*	*1*
13C8 PFOS	*107*		*41 - 154*	*05/25/22 16:13*	*06/02/22 23:21*	*1*
d3-NMeFOSAA	*57*		*10 - 178*	*05/25/22 16:13*	*06/02/22 23:21*	*1*
d5-NEtFOSAA	*64*		*10 - 193*	*05/25/22 16:13*	*06/02/22 23:21*	*1*
13C8 FOSA	*74*		*14 - 163*	*05/25/22 16:13*	*06/02/22 23:21*	*1*
13C4 PFBA	*102*		*28 - 153*	*05/25/22 16:13*	*06/02/22 23:21*	*1*
13C5 PFPeA	*119*		*24 - 161*	*05/25/22 16:13*	*06/02/22 23:21*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**6.8**		1.0	1.0	%			05/25/22 11:42	1
Percent Solids	**93.2**		1.0	1.0	%			05/25/22 11:42	1

Client Sample ID: Fill-5-05202022

Lab Sample ID: 410-84933-5

Date Collected: 05/20/22 08:30
Matrix: Solid
Date Received: 05/21/22 10:05
Percent Solids: 95.1

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		3.1	1.4	ug/Kg	☼	06/03/22 17:52	06/06/22 23:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*97*		*19 - 133*	*06/03/22 17:52*	*06/06/22 23:12*	*1*
Fluoranthene-d10 (Surr)	*92*		*22 - 152*	*06/03/22 17:52*	*06/06/22 23:12*	*1*
1-Methylnaphthalene-d10 (Surr)	*87*		*26 - 123*	*06/03/22 17:52*	*06/06/22 23:12*	*1*

Method: 537 (Modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.21	0.020	ng/g	☼	05/25/22 16:13	06/02/22 23:32	1
Perfluoroheptanoic acid	ND		0.21	0.025	ng/g	☼	05/25/22 16:13	06/02/22 23:32	1

Client Sample ID: Fill-5-05202022
Date Collected: 05/20/22 08:30
Date Received: 05/21/22 10:05

Lab Sample ID: 410-84933-5
Matrix: Solid
Percent Solids: 95.1

Method: 537 (Modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid	ND		0.21	0.023	ng/g	☼	05/25/22 16:13	06/02/22 23:32	1
Perfluorononanoic acid	ND		0.21	0.024	ng/g	☼	05/25/22 16:13	06/02/22 23:32	1
Perfluorodecanoic acid	ND		0.21	0.025	ng/g	☼	05/25/22 16:13	06/02/22 23:32	1
Perfluorotridecanoic acid	ND		0.21	0.022	ng/g	☼	05/25/22 16:13	06/02/22 23:32	1
Perfluorotetradecanoic acid	ND		0.21	0.025	ng/g	☼	05/25/22 16:13	06/02/22 23:32	1
Perfluorobutanesulfonic acid	ND		0.42	0.38	ng/g	☼	05/25/22 16:13	06/02/22 23:32	1
Perfluorohexanesulfonic acid	ND		0.21	0.020	ng/g	☼	05/25/22 16:13	06/02/22 23:32	1
Perfluorooctanesulfonic acid	ND		0.21	0.037	ng/g	☼	05/25/22 16:13	06/02/22 23:32	1
NEtFOSAA	ND		0.21	0.023	ng/g	☼	05/25/22 16:13	06/02/22 23:32	1
NMeFOSAA	ND		0.21	0.032	ng/g	☼	05/25/22 16:13	06/02/22 23:32	1
Perfluoroheptanesulfonic acid	ND		0.21	0.021	ng/g	☼	05/25/22 16:13	06/02/22 23:32	1
Perfluorodecanesulfonic acid	ND		0.21	0.022	ng/g	☼	05/25/22 16:13	06/02/22 23:32	1
Perfluorooctanesulfonamide	ND		0.21	0.022	ng/g	☼	05/25/22 16:13	06/02/22 23:32	1
Perfluorobutanoic acid	ND		0.21	0.025	ng/g	☼	05/25/22 16:13	06/02/22 23:32	1
Perfluoroundecanoic acid	ND		0.21	0.059	ng/g	☼	05/25/22 16:13	06/02/22 23:32	1
Perfluorododecanoic acid	ND		0.21	0.024	ng/g	☼	05/25/22 16:13	06/02/22 23:32	1
6:2 Fluorotelomer sulfonic acid	ND		0.21	0.051	ng/g	☼	05/25/22 16:13	06/02/22 23:32	1
8:2 Fluorotelomer sulfonic acid	ND		0.21	0.018	ng/g	☼	05/25/22 16:13	06/02/22 23:32	1
Perfluoropentanoic acid	ND		0.21	0.025	ng/g	☼	05/25/22 16:13	06/02/22 23:32	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-8:2 FTS	*128*		*15 - 200*	*05/25/22 16:13*	*06/02/22 23:32*	*1*
M2-6:2 FTS	*124*		*10 - 200*	*05/25/22 16:13*	*06/02/22 23:32*	*1*
13C5 PFHxA	*98*		*10 - 174*	*05/25/22 16:13*	*06/02/22 23:32*	*1*
13C4 PFHpA	*102*		*10 - 178*	*05/25/22 16:13*	*06/02/22 23:32*	*1*
13C8 PFOA	*103*		*26 - 159*	*05/25/22 16:13*	*06/02/22 23:32*	*1*
13C9 PFNA	*115*		*26 - 165*	*05/25/22 16:13*	*06/02/22 23:32*	*1*
13C6 PFDA	*107*		*26 - 161*	*05/25/22 16:13*	*06/02/22 23:32*	*1*
13C7 PFUnA	*102*		*12 - 173*	*05/25/22 16:13*	*06/02/22 23:32*	*1*
13C2-PFDoDA	*96*		*11 - 166*	*05/25/22 16:13*	*06/02/22 23:32*	*1*
13C2 PFTeDA	*92*		*10 - 169*	*05/25/22 16:13*	*06/02/22 23:32*	*1*
13C3 PFBS	*101*		*27 - 179*	*05/25/22 16:13*	*06/02/22 23:32*	*1*
13C3 PFHxS	*100*		*24 - 171*	*05/25/22 16:13*	*06/02/22 23:32*	*1*
13C8 PFOS	*111*		*41 - 154*	*05/25/22 16:13*	*06/02/22 23:32*	*1*
d3-NMeFOSAA	*56*		*10 - 178*	*05/25/22 16:13*	*06/02/22 23:32*	*1*
d5-NEtFOSAA	*63*		*10 - 193*	*05/25/22 16:13*	*06/02/22 23:32*	*1*
13C8 FOSA	*63*		*14 - 163*	*05/25/22 16:13*	*06/02/22 23:32*	*1*
13C4 PFBA	*104*		*28 - 153*	*05/25/22 16:13*	*06/02/22 23:32*	*1*
13C5 PFPeA	*126*		*24 - 161*	*05/25/22 16:13*	*06/02/22 23:32*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**4.9**		1.0	1.0	%			05/25/22 11:42	1
Percent Solids	**95.1**		1.0	1.0	%			05/25/22 11:42	1

Client Sample ID: DUP-1-05202022
Date Collected: 05/20/22 08:45
Date Received: 05/21/22 10:05

Lab Sample ID: 410-84933-6
Matrix: Solid
Percent Solids: 95.4

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		3.1	1.4	ug/Kg	☼	06/03/22 17:52	06/06/22 23:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*101*		*19 - 133*	*06/03/22 17:52*	*06/06/22 23:43*	*1*
Fluoranthene-d10 (Surr)	*94*		*22 - 152*	*06/03/22 17:52*	*06/06/22 23:43*	*1*
1-Methylnaphthalene-d10 (Surr)	*92*		*26 - 123*	*06/03/22 17:52*	*06/06/22 23:43*	*1*

Method: 537 (Modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.21	0.020	ng/g	☼	05/25/22 16:13	06/02/22 23:43	1
Perfluoroheptanoic acid	ND		0.21	0.025	ng/g	☼	05/25/22 16:13	06/02/22 23:43	1
Perfluorooctanoic acid	ND		0.21	0.023	ng/g	☼	05/25/22 16:13	06/02/22 23:43	1
Perfluorononanoic acid	ND		0.21	0.024	ng/g	☼	05/25/22 16:13	06/02/22 23:43	1
Perfluorodecanoic acid	ND		0.21	0.025	ng/g	☼	05/25/22 16:13	06/02/22 23:43	1
Perfluorotridecanoic acid	ND		0.21	0.022	ng/g	☼	05/25/22 16:13	06/02/22 23:43	1
Perfluorotetradecanoic acid	ND		0.21	0.025	ng/g	☼	05/25/22 16:13	06/02/22 23:43	1
Perfluorobutanesulfonic acid	ND		0.42	0.38	ng/g	☼	05/25/22 16:13	06/02/22 23:43	1
Perfluorohexanesulfonic acid	ND		0.21	0.020	ng/g	☼	05/25/22 16:13	06/02/22 23:43	1
Perfluorooctanesulfonic acid	ND		0.21	0.037	ng/g	☼	05/25/22 16:13	06/02/22 23:43	1
NEtFOSAA	ND		0.21	0.023	ng/g	☼	05/25/22 16:13	06/02/22 23:43	1
NMeFOSAA	ND		0.21	0.032	ng/g	☼	05/25/22 16:13	06/02/22 23:43	1
Perfluoroheptanesulfonic acid	ND		0.21	0.021	ng/g	☼	05/25/22 16:13	06/02/22 23:43	1
Perfluorodecanesulfonic acid	ND		0.21	0.022	ng/g	☼	05/25/22 16:13	06/02/22 23:43	1
Perfluorooctanesulfonamide	ND		0.21	0.022	ng/g	☼	05/25/22 16:13	06/02/22 23:43	1
Perfluorobutanoic acid	ND		0.21	0.025	ng/g	☼	05/25/22 16:13	06/02/22 23:43	1
Perfluoroundecanoic acid	ND		0.21	0.059	ng/g	☼	05/25/22 16:13	06/02/22 23:43	1
Perfluorododecanoic acid	ND		0.21	0.024	ng/g	☼	05/25/22 16:13	06/02/22 23:43	1
6:2 Fluorotelomer sulfonic acid	ND		0.21	0.051	ng/g	☼	05/25/22 16:13	06/02/22 23:43	1
8:2 Fluorotelomer sulfonic acid	ND		0.21	0.018	ng/g	☼	05/25/22 16:13	06/02/22 23:43	1
Perfluoropentanoic acid	ND		0.21	0.025	ng/g	☼	05/25/22 16:13	06/02/22 23:43	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-8:2 FTS	*119*		*15 - 200*	*05/25/22 16:13*	*06/02/22 23:43*	*1*
M2-6:2 FTS	*140*		*10 - 200*	*05/25/22 16:13*	*06/02/22 23:43*	*1*
13C5 PFHxA	*103*		*10 - 174*	*05/25/22 16:13*	*06/02/22 23:43*	*1*
13C4 PFHpA	*108*		*10 - 178*	*05/25/22 16:13*	*06/02/22 23:43*	*1*
13C8 PFOA	*104*		*26 - 159*	*05/25/22 16:13*	*06/02/22 23:43*	*1*
13C9 PFNA	*118*		*26 - 165*	*05/25/22 16:13*	*06/02/22 23:43*	*1*
13C6 PFDA	*111*		*26 - 161*	*05/25/22 16:13*	*06/02/22 23:43*	*1*
13C7 PFUnA	*103*		*12 - 173*	*05/25/22 16:13*	*06/02/22 23:43*	*1*
13C2-PFDoDA	*94*		*11 - 166*	*05/25/22 16:13*	*06/02/22 23:43*	*1*
13C2 PFTeDA	*93*		*10 - 169*	*05/25/22 16:13*	*06/02/22 23:43*	*1*
13C3 PFBS	*96*		*27 - 179*	*05/25/22 16:13*	*06/02/22 23:43*	*1*
13C3 PFHxS	*104*		*24 - 171*	*05/25/22 16:13*	*06/02/22 23:43*	*1*
13C8 PFOS	*109*		*41 - 154*	*05/25/22 16:13*	*06/02/22 23:43*	*1*
d3-NMeFOSAA	*59*		*10 - 178*	*05/25/22 16:13*	*06/02/22 23:43*	*1*
d5-NEtFOSAA	*69*		*10 - 193*	*05/25/22 16:13*	*06/02/22 23:43*	*1*
13C8 FOSA	*71*		*14 - 163*	*05/25/22 16:13*	*06/02/22 23:43*	*1*
13C4 PFBA	*101*		*28 - 153*	*05/25/22 16:13*	*06/02/22 23:43*	*1*
13C5 PFPeA	*125*		*24 - 161*	*05/25/22 16:13*	*06/02/22 23:43*	*1*

Client Sample ID: DUP-1-05202022

Lab Sample ID: 410-84933-6

Date Collected: 05/20/22 08:45
Matrix: Solid
Date Received: 05/21/22 10:05
Percent Solids: 95.4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**4.6**		1.0	1.0	%			05/25/22 11:42	1
Percent Solids	**95.4**		1.0	1.0	%			05/25/22 11:42	1

Client Sample ID: FB-01-05202022

Lab Sample ID: 410-84933-7

Date Collected: 05/20/22 08:00
Matrix: Water
Date Received: 05/21/22 10:05

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.38**		0.31	0.10	ug/L		05/27/22 15:38	06/01/22 04:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*76*		*10 - 110*	*05/27/22 15:38*	*06/01/22 04:36*	*1*
Fluoranthene-d10 (Surr)	*75*		*47 - 128*	*05/27/22 15:38*	*06/01/22 04:36*	*1*
1-Methylnaphthalene-d10 (Surr)	*77*		*36 - 111*	*05/27/22 15:38*	*06/01/22 04:36*	*1*

Method: 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND	cn	1.7	0.43	ng/L		06/02/22 07:41	06/03/22 16:43	1
Perfluoroheptanoic acid	ND	cn	1.7	0.43	ng/L		06/02/22 07:41	06/03/22 16:43	1
Perfluorooctanoic acid	ND	cn	1.7	0.43	ng/L		06/02/22 07:41	06/03/22 16:43	1
Perfluorononanoic acid	ND	cn	1.7	0.43	ng/L		06/02/22 07:41	06/03/22 16:43	1
Perfluorodecanoic acid	ND	cn	1.7	0.43	ng/L		06/02/22 07:41	06/03/22 16:43	1
Perfluorotridecanoic acid	ND	cn	1.7	0.43	ng/L		06/02/22 07:41	06/03/22 16:43	1
Perfluorotetradecanoic acid	ND	cn	1.7	0.43	ng/L		06/02/22 07:41	06/03/22 16:43	1
Perfluorobutanesulfonic acid	ND	cn	1.7	0.43	ng/L		06/02/22 07:41	06/03/22 16:43	1
Perfluorohexanesulfonic acid	ND	cn	1.7	0.43	ng/L		06/02/22 07:41	06/03/22 16:43	1
Perfluorooctanesulfonic acid	**0.71**	**J B cn**	1.7	0.43	ng/L		06/02/22 07:41	06/03/22 16:43	1
NEtFOSAA	ND	cn	2.6	0.43	ng/L		06/02/22 07:41	06/03/22 16:43	1
NMeFOSAA	ND	cn	1.7	0.52	ng/L		06/02/22 07:41	06/03/22 16:43	1
Perfluoroheptanesulfonic acid	ND	cn	1.7	0.43	ng/L		06/02/22 07:41	06/03/22 16:43	1
Perfluorodecanesulfonic acid	ND	cn	1.7	0.43	ng/L		06/02/22 07:41	06/03/22 16:43	1
Perfluorooctanesulfonamide	**0.47**	**J cn**	1.7	0.43	ng/L		06/02/22 07:41	06/03/22 16:43	1
Perfluorobutanoic acid	ND	cn	4.3	1.7	ng/L		06/02/22 07:41	06/03/22 16:43	1
Perfluoroundecanoic acid	ND	cn	1.7	0.43	ng/L		06/02/22 07:41	06/03/22 16:43	1
Perfluorododecanoic acid	ND	cn	1.7	0.43	ng/L		06/02/22 07:41	06/03/22 16:43	1
6:2 Fluorotelomer sulfonic acid	ND	cn	4.3	1.7	ng/L		06/02/22 07:41	06/03/22 16:43	1
8:2 Fluorotelomer sulfonic acid	ND	cn	2.6	0.86	ng/L		06/02/22 07:41	06/03/22 16:43	1
Perfluoropentanoic acid	ND	cn	1.7	0.43	ng/L		06/02/22 07:41	06/03/22 16:43	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-8:2 FTS	*131*	*cn*	*33 - 200*	*06/02/22 07:41*	*06/03/22 16:43*	*1*
M2-6:2 FTS	*135*	*cn*	*17 - 200*	*06/02/22 07:41*	*06/03/22 16:43*	*1*
13C5 PFHxA	*113*	*cn*	*24 - 179*	*06/02/22 07:41*	*06/03/22 16:43*	*1*
13C4 PFHpA	*119*	*cn*	*31 - 182*	*06/02/22 07:41*	*06/03/22 16:43*	*1*
13C8 PFOA	*113*	*cn*	*48 - 162*	*06/02/22 07:41*	*06/03/22 16:43*	*1*
13C9 PFNA	*116*	*cn*	*51 - 167*	*06/02/22 07:41*	*06/03/22 16:43*	*1*
13C6 PFDA	*114*	*cn*	*49 - 163*	*06/02/22 07:41*	*06/03/22 16:43*	*1*
13C7 PFUnA	*114*	*cn*	*34 - 174*	*06/02/22 07:41*	*06/03/22 16:43*	*1*
13C2-PFDoDA	*107*	*cn*	*17 - 176*	*06/02/22 07:41*	*06/03/22 16:43*	*1*
13C2 PFTeDA	*103*	*cn*	*10 - 179*	*06/02/22 07:41*	*06/03/22 16:43*	*1*

Client: Brown and Caldwell
Project/Site: Troy NY Water

Job ID: 410-84933-1

Client Sample ID: FB-01-05202022
Date Collected: 05/20/22 08:00
Date Received: 05/21/22 10:05

Lab Sample ID: 410-84933-7
Matrix: Water

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFBS	116	cn	16 - 200	06/02/22 07:41	06/03/22 16:43	1
13C3 PFHxS	115	cn	28 - 188	06/02/22 07:41	06/03/22 16:43	1
13C8 PFOS	115	cn	51 - 159	06/02/22 07:41	06/03/22 16:43	1
d3-NMeFOSAA	119	cn	31 - 174	06/02/22 07:41	06/03/22 16:43	1
d5-NEtFOSAA	116	cn	29 - 195	06/02/22 07:41	06/03/22 16:43	1
13C8 FOSA	89	cn	10 - 168	06/02/22 07:41	06/03/22 16:43	1
13C4 PFBA	115	cn	42 - 165	06/02/22 07:41	06/03/22 16:43	1
13C5 PFPeA	117	cn	38 - 187	06/02/22 07:41	06/03/22 16:43	1

Surrogate Summary

Client: Brown and Caldwell
Project/Site: Troy NY Water

Job ID: 410-84933-1

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BAPd12	FLN10	MNPd10
Lab Sample ID	Client Sample ID	(19-133)	(22-152)	(26-123)
410-84933-1	Fill-1-05202022	103	95	93
410-84933-2	Fill-2-05202022	100	94	90
410-84933-3	Fill-3-05202022	96	89	86
410-84933-4	Fill-4-05202022	104	100	96
410-84933-5	Fill-5-05202022	97	92	87
410-84933-6	DUP-1-05202022	101	94	92
LCS 410-261934/2-A	Lab Control Sample	107	94	84
MB 410-261934/1-A	Method Blank	98	90	86

Surrogate Legend

BAPd12 = Benzo(a)pyrene-d12 (Surr)
FLN10 = Fluoranthene-d10 (Surr)
MNPd10 = 1-Methylnaphthalene-d10 (Surr)

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BAPd12	FLN10	MNPd10
Lab Sample ID	Client Sample ID	(10-110)	(47-128)	(36-111)
410-84933-7	FB-01-05202022	76	75	77
LCS 410-259883/2-A	Lab Control Sample	83	76	55
MB 410-259883/1-A	Method Blank	80	79	64

Surrogate Legend

BAPd12 = Benzo(a)pyrene-d12 (Surr)
FLN10 = Fluoranthene-d10 (Surr)
MNPd10 = 1-Methylnaphthalene-d10 (Surr)

Isotope Dilution Summary

Client: Brown and Caldwell
Project/Site: Troy NY Water

Job ID: 410-84933-1

Method: 537 (Modified) - Fluorinated Alkyl Substances

Matrix: Solid **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		M282FTS	M262FTS	13C5PHA	C4PFHA	C8PFOA	C9PFNA	C6PFDA	13C7PUA
Lab Sample ID	Client Sample ID	(15-200)	(10-200)	(10-174)	(10-178)	(26-159)	(26-165)	(26-161)	(12-173)
410-84933-1	Fill-1-05202022	117	133	104	107	103	118	109	101
410-84933-1 MS	Fill-1-05202022	115	124	95	103	102	104	106	105
410-84933-1 MSD	Fill-1-05202022	130	141	108	115	110	119	117	115
410-84933-2	Fill-2-05202022	116	136	98	102	102	111	105	107
410-84933-3	Fill-3-05202022	126	138	101	105	102	108	106	97
410-84933-4	Fill-4-05202022	122	141	104	108	109	113	111	108
410-84933-5	Fill-5-05202022	128	124	98	102	103	115	107	102
410-84933-6	DUP-1-05202022	119	140	103	108	104	118	111	103
LCS 410-259198/2-B	Lab Control Sample	111	130	99	105	103	113	104	102
MB 410-259198/1-B	Method Blank	113	121	97	101	101	110	99	96

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFDoDA	PFTDA	C3PFBS	C3PFHS	C8PFOS	d3NMFOS	d5NEFOS	PFOSA
Lab Sample ID	Client Sample ID	(11-166)	(10-169)	(27-179)	(24-171)	(41-154)	(10-178)	(10-193)	(14-163)
410-84933-1	Fill-1-05202022	95	95	94	102	104	62	70	55
410-84933-1 MS	Fill-1-05202022	92	94	93	101	102	60	66	46
410-84933-1 MSD	Fill-1-05202022	103	106	108	112	118	69	74	65
410-84933-2	Fill-2-05202022	94	94	92	100	106	66	72	62
410-84933-3	Fill-3-05202022	95	93	98	106	105	48	55	69
410-84933-4	Fill-4-05202022	95	92	96	111	107	57	64	74
410-84933-5	Fill-5-05202022	96	92	101	100	111	56	63	63
410-84933-6	DUP-1-05202022	94	93	96	104	109	59	69	71
LCS 410-259198/2-B	Lab Control Sample	97	96	98	103	103	71	70	78
MB 410-259198/1-B	Method Blank	88	89	88	96	101	65	66	71

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFBA	PFPeA						
Lab Sample ID	Client Sample ID	(28-153)	(24-161)						
410-84933-1	Fill-1-05202022	98	119						
410-84933-1 MS	Fill-1-05202022	98	114						
410-84933-1 MSD	Fill-1-05202022	109	129						
410-84933-2	Fill-2-05202022	99	118						
410-84933-3	Fill-3-05202022	98	116						
410-84933-4	Fill-4-05202022	102	119						
410-84933-5	Fill-5-05202022	104	126						
410-84933-6	DUP-1-05202022	101	125						
LCS 410-259198/2-B	Lab Control Sample	102	123						
MB 410-259198/1-B	Method Blank	97	115						

Surrogate Legend

M282FTS = M2-8:2 FTS
M262FTS = M2-6:2 FTS
13C5PHA = 13C5 PFHxA
C4PFHA = 13C4 PFHpA
C8PFOA = 13C8 PFOA
C9PFNA = 13C9 PFNA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
PFDoDA = 13C2-PFDoDA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS

Isotope Dilution Summary

Client: Brown and Caldwell
Job ID: 410-84933-1
Project/Site: Troy NY Water

C3PFHS = 13C3 PFHxS
C8PFOS = 13C8 PFOS
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
PFOSA = 13C8 FOSA
PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA

Method: 537 IDA - EPA 537 Isotope Dilution

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		M282FTS	M262FTS	13C5PHA	C4PFHA	C8PFOA	C9PFNA	C6PFDA	13C7PUA
Lab Sample ID	Client Sample ID	(33-200)	(17-200)	(24-179)	(31-182)	(48-162)	(51-167)	(49-163)	(34-174)
410-84933-7	FB-01-05202022	131 cn	135 cn	113 cn	119 cn	113 cn	116 cn	114 cn	114 cn
LCS 410-261254/3-A	Lab Control Sample	131	129	108	111	112	123	117	110
LCSD 410-261254/4-A	Lab Control Sample Dup	120	123	115	115	113	119	120	124
MB 410-261254/1-A	Method Blank	89	95	82	86	84	88	86	86

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFDoDA	PFTDA	C3PFBS	C3PFHS	C8PFOS	d3NMFOS	d5NEFOS	PFOSA
Lab Sample ID	Client Sample ID	(17-176)	(10-179)	(16-200)	(28-188)	(51-159)	(31-174)	(29-195)	(10-168)
410-84933-7	FB-01-05202022	107 cn	103 cn	116 cn	115 cn	115 cn	119 cn	116 cn	89 cn
LCS 410-261254/3-A	Lab Control Sample	108	106	114	108	113	121	119	95
LCSD 410-261254/4-A	Lab Control Sample Dup	116	109	108	109	114	126	126	100
MB 410-261254/1-A	Method Blank	74	77	80	81	84	88	88	70

		Percent Isotope Dilution Recovery (Acceptance Limits)	
		PFBA	PFPeA
Lab Sample ID	Client Sample ID	(42-165)	(38-187)
410-84933-7	FB-01-05202022	115 cn	117 cn
LCS 410-261254/3-A	Lab Control Sample	113	115
LCSD 410-261254/4-A	Lab Control Sample Dup	111	114
MB 410-261254/1-A	Method Blank	81	80

Surrogate Legend

M282FTS = M2-8:2 FTS
M262FTS = M2-6:2 FTS
13C5PHA = 13C5 PFHxA
C4PFHA = 13C4 PFHpA
C8PFOA = 13C8 PFOA
C9PFNA = 13C9 PFNA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
PFDoDA = 13C2-PFDoDA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
C3PFHS = 13C3 PFHxS
C8PFOS = 13C8 PFOS
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
PFOSA = 13C8 FOSA
PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 410-259883/1-A
Matrix: Water
Analysis Batch: 260596

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259883

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.30	0.10	ug/L		05/27/22 15:38	05/31/22 20:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*80*		*10 - 110*	*05/27/22 15:38*	*05/31/22 20:17*	*1*
Fluoranthene-d10 (Surr)	*79*		*47 - 128*	*05/27/22 15:38*	*05/31/22 20:17*	*1*
1-Methylnaphthalene-d10 (Surr)	*64*		*36 - 111*	*05/27/22 15:38*	*05/31/22 20:17*	*1*

Lab Sample ID: LCS 410-259883/2-A
Matrix: Water
Analysis Batch: 260596

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259883

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	1.00	0.504		ug/L		50	23 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Benzo(a)pyrene-d12 (Surr)	*83*		*10 - 110*
Fluoranthene-d10 (Surr)	*76*		*47 - 128*
1-Methylnaphthalene-d10 (Surr)	*55*		*36 - 111*

Lab Sample ID: MB 410-261934/1-A
Matrix: Solid
Analysis Batch: 262637

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 261934

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		3.0	1.3	ug/Kg		06/03/22 17:52	06/06/22 20:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*98*		*19 - 133*	*06/03/22 17:52*	*06/06/22 20:03*	*1*
Fluoranthene-d10 (Surr)	*90*		*22 - 152*	*06/03/22 17:52*	*06/06/22 20:03*	*1*
1-Methylnaphthalene-d10 (Surr)	*86*		*26 - 123*	*06/03/22 17:52*	*06/06/22 20:03*	*1*

Lab Sample ID: LCS 410-261934/2-A
Matrix: Solid
Analysis Batch: 262637

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 261934

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	33.3	18.7		ug/Kg		56	15 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Benzo(a)pyrene-d12 (Surr)	*107*		*19 - 133*
Fluoranthene-d10 (Surr)	*94*		*22 - 152*
1-Methylnaphthalene-d10 (Surr)	*84*		*26 - 123*

Method: 537 (Modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 410-259198/1-B
Matrix: Solid
Analysis Batch: 261409

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259198

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.20	0.019	ng/g		05/25/22 16:13	06/02/22 21:52	1
Perfluoroheptanoic acid	ND		0.20	0.024	ng/g		05/25/22 16:13	06/02/22 21:52	1
Perfluorooctanoic acid	ND		0.20	0.022	ng/g		05/25/22 16:13	06/02/22 21:52	1
Perfluorononanoic acid	ND		0.20	0.023	ng/g		05/25/22 16:13	06/02/22 21:52	1
Perfluorodecanoic acid	ND		0.20	0.024	ng/g		05/25/22 16:13	06/02/22 21:52	1
Perfluorotridecanoic acid	ND		0.20	0.021	ng/g		05/25/22 16:13	06/02/22 21:52	1
Perfluorotetradecanoic acid	ND		0.20	0.024	ng/g		05/25/22 16:13	06/02/22 21:52	1
Perfluorobutanesulfonic acid	ND		0.40	0.36	ng/g		05/25/22 16:13	06/02/22 21:52	1
Perfluorohexanesulfonic acid	ND		0.20	0.019	ng/g		05/25/22 16:13	06/02/22 21:52	1
Perfluorooctanesulfonic acid	ND		0.20	0.035	ng/g		05/25/22 16:13	06/02/22 21:52	1
NEtFOSAA	ND		0.20	0.022	ng/g		05/25/22 16:13	06/02/22 21:52	1
NMeFOSAA	ND		0.20	0.031	ng/g		05/25/22 16:13	06/02/22 21:52	1
Perfluoroheptanesulfonic acid	ND		0.20	0.020	ng/g		05/25/22 16:13	06/02/22 21:52	1
Perfluorodecanesulfonic acid	ND		0.20	0.021	ng/g		05/25/22 16:13	06/02/22 21:52	1
Perfluorooctanesulfonamide	ND		0.20	0.021	ng/g		05/25/22 16:13	06/02/22 21:52	1
Perfluorobutanoic acid	ND		0.20	0.024	ng/g		05/25/22 16:13	06/02/22 21:52	1
Perfluoroundecanoic acid	ND		0.20	0.056	ng/g		05/25/22 16:13	06/02/22 21:52	1
Perfluorododecanoic acid	ND		0.20	0.023	ng/g		05/25/22 16:13	06/02/22 21:52	1
6:2 Fluorotelomer sulfonic acid	ND		0.20	0.049	ng/g		05/25/22 16:13	06/02/22 21:52	1
8:2 Fluorotelomer sulfonic acid	ND		0.20	0.017	ng/g		05/25/22 16:13	06/02/22 21:52	1
Perfluoropentanoic acid	ND		0.20	0.024	ng/g		05/25/22 16:13	06/02/22 21:52	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-8:2 FTS	*113*		*15 - 200*	*05/25/22 16:13*	*06/02/22 21:52*	*1*
M2-6:2 FTS	*121*		*10 - 200*	*05/25/22 16:13*	*06/02/22 21:52*	*1*
13C5 PFHxA	*97*		*10 - 174*	*05/25/22 16:13*	*06/02/22 21:52*	*1*
13C4 PFHpA	*101*		*10 - 178*	*05/25/22 16:13*	*06/02/22 21:52*	*1*
13C8 PFOA	*101*		*26 - 159*	*05/25/22 16:13*	*06/02/22 21:52*	*1*
13C9 PFNA	*110*		*26 - 165*	*05/25/22 16:13*	*06/02/22 21:52*	*1*
13C6 PFDA	*99*		*26 - 161*	*05/25/22 16:13*	*06/02/22 21:52*	*1*
13C7 PFUnA	*96*		*12 - 173*	*05/25/22 16:13*	*06/02/22 21:52*	*1*
13C2-PFDoDA	*88*		*11 - 166*	*05/25/22 16:13*	*06/02/22 21:52*	*1*
13C2 PFTeDA	*89*		*10 - 169*	*05/25/22 16:13*	*06/02/22 21:52*	*1*
13C3 PFBS	*88*		*27 - 179*	*05/25/22 16:13*	*06/02/22 21:52*	*1*
13C3 PFHxS	*96*		*24 - 171*	*05/25/22 16:13*	*06/02/22 21:52*	*1*
13C8 PFOS	*101*		*41 - 154*	*05/25/22 16:13*	*06/02/22 21:52*	*1*
d3-NMeFOSAA	*65*		*10 - 178*	*05/25/22 16:13*	*06/02/22 21:52*	*1*
d5-NEtFOSAA	*66*		*10 - 193*	*05/25/22 16:13*	*06/02/22 21:52*	*1*
13C8 FOSA	*71*		*14 - 163*	*05/25/22 16:13*	*06/02/22 21:52*	*1*
13C4 PFBA	*97*		*28 - 153*	*05/25/22 16:13*	*06/02/22 21:52*	*1*
13C5 PFPeA	*115*		*24 - 161*	*05/25/22 16:13*	*06/02/22 21:52*	*1*

Lab Sample ID: LCS 410-259198/2-B
Matrix: Solid
Analysis Batch: 261409

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259198

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	2.50	2.37		ng/g		95	59 - 132
Perfluoroheptanoic acid	2.50	2.22		ng/g		89	59 - 137

Method: 537 (Modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 410-259198/2-B
Matrix: Solid
Analysis Batch: 261409

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259198

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanoic acid	2.50	2.16		ng/g		87	59 - 131
Perfluorononanoic acid	2.50	2.11		ng/g		84	61 - 134
Perfluorodecanoic acid	2.50	2.29		ng/g		92	56 - 133
Perfluorotridecanoic acid	2.50	2.20		ng/g		88	53 - 143
Perfluorotetradecanoic acid	2.50	2.23		ng/g		89	62 - 134
Perfluorobutanesulfonic acid	2.21	1.98		ng/g		90	54 - 130
Perfluorohexanesulfonic acid	2.28	1.96		ng/g		86	59 - 129
Perfluorooctanesulfonic acid	2.31	2.05		ng/g		89	61 - 126
NEtFOSAA	2.50	2.07		ng/g		83	57 - 127
NMeFOSAA	2.50	2.02		ng/g		81	60 - 134
Perfluoroheptanesulfonic acid	2.38	1.93		ng/g		81	59 - 132
Perfluorodecanesulfonic acid	2.41	1.90		ng/g		79	57 - 132
Perfluorooctanesulfonamide	2.50	1.97		ng/g		79	47 - 149
Perfluorobutanoic acid	2.50	2.07		ng/g		83	60 - 128
Perfluoroundecanoic acid	2.50	2.28		ng/g		91	60 - 134
Perfluorododecanoic acid	2.50	2.14		ng/g		86	60 - 135
6:2 Fluorotelomer sulfonic acid	2.37	1.75		ng/g		74	59 - 135
8:2 Fluorotelomer sulfonic acid	2.40	1.90		ng/g		79	55 - 133
Perfluoropentanoic acid	2.50	1.75		ng/g		70	58 - 134

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-8:2 FTS	*111*		*15 - 200*
M2-6:2 FTS	*130*		*10 - 200*
13C5 PFHxA	*99*		*10 - 174*
13C4 PFHpA	*105*		*10 - 178*
13C8 PFOA	*103*		*26 - 159*
13C9 PFNA	*113*		*26 - 165*
13C6 PFDA	*104*		*26 - 161*
13C7 PFUnA	*102*		*12 - 173*
13C2-PFDoDA	*97*		*11 - 166*
13C2 PFTeDA	*96*		*10 - 169*
13C3 PFBS	*98*		*27 - 179*
13C3 PFHxS	*103*		*24 - 171*
13C8 PFOS	*103*		*41 - 154*
d3-NMeFOSAA	*71*		*10 - 178*
d5-NEtFOSAA	*70*		*10 - 193*
13C8 FOSA	*78*		*14 - 163*
13C4 PFBA	*102*		*28 - 153*
13C5 PFPeA	*123*		*24 - 161*

Lab Sample ID: 410-84933-1 MS
Matrix: Solid
Analysis Batch: 261409

Client Sample ID: Fill-1-05202022
Prep Type: Total/NA
Prep Batch: 259198

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	ND		2.68	2.44		ng/g	☼	91	59 - 132
Perfluoroheptanoic acid	ND		2.68	2.37		ng/g	☼	89	59 - 137
Perfluorooctanoic acid	ND		2.68	2.38		ng/g	☼	89	59 - 131
Perfluorononanoic acid	ND		2.68	2.38		ng/g	☼	89	61 - 134

Method: 537 (Modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: 410-84933-1 MS
Matrix: Solid
Analysis Batch: 261409

Client Sample ID: Fill-1-05202022
Prep Type: Total/NA
Prep Batch: 259198

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorodecanoic acid	ND		2.68	2.32		ng/g	☼	87	56 - 133
Perfluorotridecanoic acid	ND		2.68	2.45		ng/g	☼	91	53 - 143
Perfluorotetradecanoic acid	ND		2.68	2.34		ng/g	☼	87	62 - 134
Perfluorobutanesulfonic acid	ND		2.37	2.20		ng/g	☼	93	54 - 130
Perfluorohexanesulfonic acid	ND		2.44	2.14		ng/g	☼	88	59 - 129
Perfluorooctanesulfonic acid	ND		2.48	2.17		ng/g	☼	88	61 - 126
NEtFOSAA	ND		2.68	2.30		ng/g	☼	86	57 - 127
NMeFOSAA	ND		2.68	2.35		ng/g	☼	88	60 - 134
Perfluoroheptanesulfonic acid	ND		2.55	2.12		ng/g	☼	83	59 - 132
Perfluorodecanesulfonic acid	ND		2.58	2.05		ng/g	☼	79	57 - 132
Perfluorooctanesulfonamide	ND		2.68	2.13		ng/g	☼	80	47 - 149
Perfluorobutanoic acid	ND		2.68	2.25		ng/g	☼	84	60 - 128
Perfluoroundecanoic acid	ND		2.68	2.31		ng/g	☼	86	60 - 134
Perfluorododecanoic acid	ND		2.68	2.49		ng/g	☼	93	60 - 135
6:2 Fluorotelomer sulfonic acid	ND		2.54	2.06		ng/g	☼	81	59 - 135
8:2 Fluorotelomer sulfonic acid	ND		2.56	2.02		ng/g	☼	79	55 - 133
Perfluoropentanoic acid	ND		2.68	1.90		ng/g	☼	71	58 - 134

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
M2-8:2 FTS	*115*		*15 - 200*
M2-6:2 FTS	*124*		*10 - 200*
13C5 PFHxA	*95*		*10 - 174*
13C4 PFHpA	*103*		*10 - 178*
13C8 PFOA	*102*		*26 - 159*
13C9 PFNA	*104*		*26 - 165*
13C6 PFDA	*106*		*26 - 161*
13C7 PFUnA	*105*		*12 - 173*
13C2-PFDoDA	*92*		*11 - 166*
13C2 PFTeDA	*94*		*10 - 169*
13C3 PFBS	*93*		*27 - 179*
13C3 PFHxS	*101*		*24 - 171*
13C8 PFOS	*102*		*41 - 154*
d3-NMeFOSAA	*60*		*10 - 178*
d5-NEtFOSAA	*66*		*10 - 193*
13C8 FOSA	*46*		*14 - 163*
13C4 PFBA	*98*		*28 - 153*
13C5 PFPeA	*114*		*24 - 161*

Lab Sample ID: 410-84933-1 MSD
Matrix: Solid
Analysis Batch: 261409

Client Sample ID: Fill-1-05202022
Prep Type: Total/NA
Prep Batch: 259198

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorohexanoic acid	ND		2.66	2.39		ng/g	☼	90	59 - 132	2	30
Perfluoroheptanoic acid	ND		2.66	2.24		ng/g	☼	84	59 - 137	6	30
Perfluorooctanoic acid	ND		2.66	2.41		ng/g	☼	91	59 - 131	1	30
Perfluorononanoic acid	ND		2.66	2.34		ng/g	☼	88	61 - 134	2	30
Perfluorodecanoic acid	ND		2.66	2.33		ng/g	☼	88	56 - 133	0	30
Perfluorotridecanoic acid	ND		2.66	2.46		ng/g	☼	93	53 - 143	1	30

Method: 537 (Modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: 410-84933-1 MSD
Matrix: Solid
Analysis Batch: 261409

Client Sample ID: Fill-1-05202022
Prep Type: Total/NA
Prep Batch: 259198

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorotetradecanoic acid	ND		2.66	2.35		ng/g	☼	88	62 - 134	1	30
Perfluorobutanesulfonic acid	ND		2.35	2.13		ng/g	☼	90	54 - 130	3	30
Perfluorohexanesulfonic acid	ND		2.43	2.08		ng/g	☼	86	59 - 129	3	30
Perfluorooctanesulfonic acid	ND		2.46	2.14		ng/g	☼	87	61 - 126	1	30
NEtFOSAA	ND		2.66	2.12		ng/g	☼	80	57 - 127	8	30
NMeFOSAA	ND		2.66	2.22		ng/g	☼	84	60 - 134	6	30
Perfluoroheptanesulfonic acid	ND		2.53	2.13		ng/g	☼	84	59 - 132	0	30
Perfluorodecanesulfonic acid	ND		2.56	1.89		ng/g	☼	74	57 - 132	8	30
Perfluorooctanesulfonamide	ND		2.66	2.14		ng/g	☼	80	47 - 149	0	30
Perfluorobutanoic acid	ND		2.66	2.24		ng/g	☼	84	60 - 128	0	30
Perfluoroundecanoic acid	ND		2.66	2.28		ng/g	☼	86	60 - 134	1	30
Perfluorododecanoic acid	ND		2.66	2.48		ng/g	☼	93	60 - 135	1	30
6:2 Fluorotelomer sulfonic acid	ND		2.52	1.99		ng/g	☼	79	59 - 135	4	30
8:2 Fluorotelomer sulfonic acid	ND		2.55	2.00		ng/g	☼	78	55 - 133	1	30
Perfluoropentanoic acid	ND		2.66	1.85		ng/g	☼	70	58 - 134	3	30

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
M2-8:2 FTS	*130*		*15 - 200*
M2-6:2 FTS	*141*		*10 - 200*
13C5 PFHxA	*108*		*10 - 174*
13C4 PFHpA	*115*		*10 - 178*
13C8 PFOA	*110*		*26 - 159*
13C9 PFNA	*119*		*26 - 165*
13C6 PFDA	*117*		*26 - 161*
13C7 PFUnA	*115*		*12 - 173*
13C2-PFDoDA	*103*		*11 - 166*
13C2 PFTeDA	*106*		*10 - 169*
13C3 PFBS	*108*		*27 - 179*
13C3 PFHxS	*112*		*24 - 171*
13C8 PFOS	*118*		*41 - 154*
d3-NMeFOSAA	*69*		*10 - 178*
d5-NEtFOSAA	*74*		*10 - 193*
13C8 FOSA	*65*		*14 - 163*
13C4 PFBA	*109*		*28 - 153*
13C5 PFPeA	*129*		*24 - 161*

Method: 537 IDA - EPA 537 Isotope Dilution

Lab Sample ID: MB 410-261254/1-A
Matrix: Water
Analysis Batch: 261708

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 261254

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		2.0	0.50	ng/L		06/02/22 07:41	06/03/22 15:25	1
Perfluoroheptanoic acid	ND		2.0	0.50	ng/L		06/02/22 07:41	06/03/22 15:25	1
Perfluorooctanoic acid	ND		2.0	0.50	ng/L		06/02/22 07:41	06/03/22 15:25	1
Perfluorononanoic acid	ND		2.0	0.50	ng/L		06/02/22 07:41	06/03/22 15:25	1
Perfluorodecanoic acid	ND		2.0	0.50	ng/L		06/02/22 07:41	06/03/22 15:25	1
Perfluorotridecanoic acid	ND		2.0	0.50	ng/L		06/02/22 07:41	06/03/22 15:25	1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-261254/1-A
Matrix: Water
Analysis Batch: 261708

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 261254

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotetradecanoic acid	ND		2.0	0.50	ng/L		06/02/22 07:41	06/03/22 15:25	1
Perfluorobutanesulfonic acid	ND		2.0	0.50	ng/L		06/02/22 07:41	06/03/22 15:25	1
Perfluorohexanesulfonic acid	ND		2.0	0.50	ng/L		06/02/22 07:41	06/03/22 15:25	1
Perfluorooctanesulfonic acid	0.610	J	2.0	0.50	ng/L		06/02/22 07:41	06/03/22 15:25	1
NEtFOSAA	ND		3.0	0.50	ng/L		06/02/22 07:41	06/03/22 15:25	1
NMeFOSAA	ND		2.0	0.60	ng/L		06/02/22 07:41	06/03/22 15:25	1
Perfluoroheptanesulfonic acid	ND		2.0	0.50	ng/L		06/02/22 07:41	06/03/22 15:25	1
Perfluorodecanesulfonic acid	ND		2.0	0.50	ng/L		06/02/22 07:41	06/03/22 15:25	1
Perfluorooctanesulfonamide	ND		2.0	0.50	ng/L		06/02/22 07:41	06/03/22 15:25	1
Perfluorobutanoic acid	ND		5.0	2.0	ng/L		06/02/22 07:41	06/03/22 15:25	1
Perfluoroundecanoic acid	ND		2.0	0.50	ng/L		06/02/22 07:41	06/03/22 15:25	1
Perfluorododecanoic acid	ND		2.0	0.50	ng/L		06/02/22 07:41	06/03/22 15:25	1
6:2 Fluorotelomer sulfonic acid	ND		5.0	2.0	ng/L		06/02/22 07:41	06/03/22 15:25	1
8:2 Fluorotelomer sulfonic acid	ND		3.0	1.0	ng/L		06/02/22 07:41	06/03/22 15:25	1
Perfluoropentanoic acid	ND		2.0	0.50	ng/L		06/02/22 07:41	06/03/22 15:25	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-8:2 FTS	*89*		*33 - 200*	*06/02/22 07:41*	*06/03/22 15:25*	*1*
M2-6:2 FTS	*95*		*17 - 200*	*06/02/22 07:41*	*06/03/22 15:25*	*1*
13C5 PFHxA	*82*		*24 - 179*	*06/02/22 07:41*	*06/03/22 15:25*	*1*
13C4 PFHpA	*86*		*31 - 182*	*06/02/22 07:41*	*06/03/22 15:25*	*1*
13C8 PFOA	*84*		*48 - 162*	*06/02/22 07:41*	*06/03/22 15:25*	*1*
13C9 PFNA	*88*		*51 - 167*	*06/02/22 07:41*	*06/03/22 15:25*	*1*
13C6 PFDA	*86*		*49 - 163*	*06/02/22 07:41*	*06/03/22 15:25*	*1*
13C7 PFUnA	*86*		*34 - 174*	*06/02/22 07:41*	*06/03/22 15:25*	*1*
13C2-PFDoDA	*74*		*17 - 176*	*06/02/22 07:41*	*06/03/22 15:25*	*1*
13C2 PFTeDA	*77*		*10 - 179*	*06/02/22 07:41*	*06/03/22 15:25*	*1*
13C3 PFBS	*80*		*16 - 200*	*06/02/22 07:41*	*06/03/22 15:25*	*1*
13C3 PFHxS	*81*		*28 - 188*	*06/02/22 07:41*	*06/03/22 15:25*	*1*
13C8 PFOS	*84*		*51 - 159*	*06/02/22 07:41*	*06/03/22 15:25*	*1*
d3-NMeFOSAA	*88*		*31 - 174*	*06/02/22 07:41*	*06/03/22 15:25*	*1*
d5-NEtFOSAA	*88*		*29 - 195*	*06/02/22 07:41*	*06/03/22 15:25*	*1*
13C8 FOSA	*70*		*10 - 168*	*06/02/22 07:41*	*06/03/22 15:25*	*1*
13C4 PFBA	*81*		*42 - 165*	*06/02/22 07:41*	*06/03/22 15:25*	*1*
13C5 PFPeA	*80*		*38 - 187*	*06/02/22 07:41*	*06/03/22 15:25*	*1*

Lab Sample ID: LCS 410-261254/3-A
Matrix: Water
Analysis Batch: 261708

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 261254

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	25.6	20.0		ng/L		78	58 - 139
Perfluoroheptanoic acid	25.6	20.5		ng/L		80	59 - 145
Perfluorooctanoic acid	25.6	19.8		ng/L		78	51 - 145
Perfluorononanoic acid	25.6	20.9		ng/L		81	61 - 139
Perfluorodecanoic acid	25.6	20.5		ng/L		80	56 - 138
Perfluorotridecanoic acid	25.6	20.6		ng/L		81	58 - 146
Perfluorotetradecanoic acid	25.6	20.7		ng/L		81	62 - 139
Perfluorobutanesulfonic acid	22.7	17.1		ng/L		76	53 - 138

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-261254/3-A
Matrix: Water
Analysis Batch: 261708

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 261254

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Perfluorohexanesulfonic acid			23.3	18.0		ng/L		77	58 - 134		
Perfluorooctanesulfonic acid			23.7	19.9		ng/L		84	45 - 150		
NEtFOSAA			25.6	19.2		ng/L		75	55 - 134		
NMeFOSAA			25.6	19.0		ng/L		74	59 - 140		
Perfluoroheptanesulfonic acid			24.4	18.0		ng/L		74	56 - 140		
Perfluorodecanesulfonic acid			24.7	17.6		ng/L		71	55 - 137		
Perfluorooctanesulfonamide			25.6	18.5		ng/L		72	43 - 167		
Perfluorobutanoic acid			25.6	19.1		ng/L		75	59 - 136		
Perfluoroundecanoic acid			25.6	21.7		ng/L		85	60 - 141		
Perfluorododecanoic acid			25.6	20.4		ng/L		80	59 - 143		
6:2 Fluorotelomer sulfonic acid			24.3	18.2		ng/L		75	28 - 173		
8:2 Fluorotelomer sulfonic acid			24.5	17.3		ng/L		71	55 - 138		
Perfluoropentanoic acid			25.6	18.9		ng/L		74	57 - 141		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-8:2 FTS	*131*		*33 - 200*
M2-6:2 FTS	*129*		*17 - 200*
13C5 PFHxA	*108*		*24 - 179*
13C4 PFHpA	*111*		*31 - 182*
13C8 PFOA	*112*		*48 - 162*
13C9 PFNA	*123*		*51 - 167*
13C6 PFDA	*117*		*49 - 163*
13C7 PFUnA	*110*		*34 - 174*
13C2-PFDoDA	*108*		*17 - 176*
13C2 PFTeDA	*106*		*10 - 179*
13C3 PFBS	*114*		*16 - 200*
13C3 PFHxS	*108*		*28 - 188*
13C8 PFOS	*113*		*51 - 159*
d3-NMeFOSAA	*121*		*31 - 174*
d5-NEtFOSAA	*119*		*29 - 195*
13C8 FOSA	*95*		*10 - 168*
13C4 PFBA	*113*		*42 - 165*
13C5 PFPeA	*115*		*38 - 187*

Lab Sample ID: LCSD 410-261254/4-A
Matrix: Water
Analysis Batch: 261708

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 261254

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorohexanoic acid			25.6	19.8		ng/L		77	58 - 139	1	30
Perfluoroheptanoic acid			25.6	19.5		ng/L		76	59 - 145	5	30
Perfluorooctanoic acid			25.6	21.0		ng/L		82	51 - 145	6	30
Perfluorononanoic acid			25.6	21.2		ng/L		83	61 - 139	2	30
Perfluorodecanoic acid			25.6	20.8		ng/L		81	56 - 138	1	30
Perfluorotridecanoic acid			25.6	20.1		ng/L		79	58 - 146	2	30
Perfluorotetradecanoic acid			25.6	20.6		ng/L		80	62 - 139	1	30
Perfluorobutanesulfonic acid			22.7	17.8		ng/L		79	53 - 138	4	30
Perfluorohexanesulfonic acid			23.3	18.1		ng/L		77	58 - 134	1	30
Perfluorooctanesulfonic acid			23.7	19.3		ng/L		81	45 - 150	3	30

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCSD 410-261254/4-A
Matrix: Water
Analysis Batch: 261708

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 261254

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
NEtFOSAA			25.6	19.1		ng/L		74	55 - 134	1	30
NMeFOSAA			25.6	19.2		ng/L		75	59 - 140	1	30
Perfluoroheptanesulfonic acid			24.4	18.2		ng/L		75	56 - 140	1	30
Perfluorodecanesulfonic acid			24.7	17.5		ng/L		71	55 - 137	1	30
Perfluorooctanesulfonamide			25.6	18.0		ng/L		70	43 - 167	3	30
Perfluorobutanoic acid			25.6	19.2		ng/L		75	59 - 136	1	30
Perfluoroundecanoic acid			25.6	19.9		ng/L		78	60 - 141	9	30
Perfluorododecanoic acid			25.6	21.4		ng/L		84	59 - 143	5	30
6:2 Fluorotelomer sulfonic acid			24.3	18.2		ng/L		75	28 - 173	0	30
8:2 Fluorotelomer sulfonic acid			24.5	18.5		ng/L		75	55 - 138	6	30
Perfluoropentanoic acid			25.6	19.3		ng/L		75	57 - 141	2	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
M2-8:2 FTS	*120*		*33 - 200*
M2-6:2 FTS	*123*		*17 - 200*
13C5 PFHxA	*115*		*24 - 179*
13C4 PFHpA	*115*		*31 - 182*
13C8 PFOA	*113*		*48 - 162*
13C9 PFNA	*119*		*51 - 167*
13C6 PFDA	*120*		*49 - 163*
13C7 PFUnA	*124*		*34 - 174*
13C2-PFDoDA	*116*		*17 - 176*
13C2 PFTeDA	*109*		*10 - 179*
13C3 PFBS	*108*		*16 - 200*
13C3 PFHxS	*109*		*28 - 188*
13C8 PFOS	*114*		*51 - 159*
d3-NMeFOSAA	*126*		*31 - 174*
d5-NEtFOSAA	*126*		*29 - 195*
13C8 FOSA	*100*		*10 - 168*
13C4 PFBA	*111*		*42 - 165*
13C5 PFPeA	*114*		*38 - 187*

GC/MS Semi VOA

Prep Batch: 259883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-84933-7	FB-01-05202022	Total/NA	Water	3510C	
MB 410-259883/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-259883/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 260596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-84933-7	FB-01-05202022	Total/NA	Water	8270E SIM	259883
MB 410-259883/1-A	Method Blank	Total/NA	Water	8270E SIM	259883
LCS 410-259883/2-A	Lab Control Sample	Total/NA	Water	8270E SIM	259883

Prep Batch: 261934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-84933-1	Fill-1-05202022	Total/NA	Solid	3546	
410-84933-2	Fill-2-05202022	Total/NA	Solid	3546	
410-84933-3	Fill-3-05202022	Total/NA	Solid	3546	
410-84933-4	Fill-4-05202022	Total/NA	Solid	3546	
410-84933-5	Fill-5-05202022	Total/NA	Solid	3546	
410-84933-6	DUP-1-05202022	Total/NA	Solid	3546	
MB 410-261934/1-A	Method Blank	Total/NA	Solid	3546	
LCS 410-261934/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 262637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-84933-1	Fill-1-05202022	Total/NA	Solid	8270E SIM	261934
410-84933-2	Fill-2-05202022	Total/NA	Solid	8270E SIM	261934
410-84933-3	Fill-3-05202022	Total/NA	Solid	8270E SIM	261934
410-84933-4	Fill-4-05202022	Total/NA	Solid	8270E SIM	261934
410-84933-5	Fill-5-05202022	Total/NA	Solid	8270E SIM	261934
410-84933-6	DUP-1-05202022	Total/NA	Solid	8270E SIM	261934
MB 410-261934/1-A	Method Blank	Total/NA	Solid	8270E SIM	261934
LCS 410-261934/2-A	Lab Control Sample	Total/NA	Solid	8270E SIM	261934

LCMS

Prep Batch: 259198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-84933-1	Fill-1-05202022	Total/NA	Solid	SHAKE	
410-84933-2	Fill-2-05202022	Total/NA	Solid	SHAKE	
410-84933-3	Fill-3-05202022	Total/NA	Solid	SHAKE	
410-84933-4	Fill-4-05202022	Total/NA	Solid	SHAKE	
410-84933-5	Fill-5-05202022	Total/NA	Solid	SHAKE	
410-84933-6	DUP-1-05202022	Total/NA	Solid	SHAKE	
MB 410-259198/1-B	Method Blank	Total/NA	Solid	SHAKE	
LCS 410-259198/2-B	Lab Control Sample	Total/NA	Solid	SHAKE	
410-84933-1 MS	Fill-1-05202022	Total/NA	Solid	SHAKE	
410-84933-1 MSD	Fill-1-05202022	Total/NA	Solid	SHAKE	

Cleanup Batch: 259612

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-84933-1	Fill-1-05202022	Total/NA	Solid	Extract Aliquot	259198
410-84933-2	Fill-2-05202022	Total/NA	Solid	Extract Aliquot	259198

LCMS (Continued)

Cleanup Batch: 259612 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-84933-3	Fill-3-05202022	Total/NA	Solid	Extract Aliquot	259198
410-84933-4	Fill-4-05202022	Total/NA	Solid	Extract Aliquot	259198
410-84933-5	Fill-5-05202022	Total/NA	Solid	Extract Aliquot	259198
410-84933-6	DUP-1-05202022	Total/NA	Solid	Extract Aliquot	259198
MB 410-259198/1-B	Method Blank	Total/NA	Solid	Extract Aliquot	259198
LCS 410-259198/2-B	Lab Control Sample	Total/NA	Solid	Extract Aliquot	259198
410-84933-1 MS	Fill-1-05202022	Total/NA	Solid	Extract Aliquot	259198
410-84933-1 MSD	Fill-1-05202022	Total/NA	Solid	Extract Aliquot	259198

Prep Batch: 261254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-84933-7	FB-01-05202022	Total/NA	Water	537 IDA	
MB 410-261254/1-A	Method Blank	Total/NA	Water	537 IDA	
LCS 410-261254/3-A	Lab Control Sample	Total/NA	Water	537 IDA	
LCSD 410-261254/4-A	Lab Control Sample Dup	Total/NA	Water	537 IDA	

Analysis Batch: 261409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-84933-1	Fill-1-05202022	Total/NA	Solid	537 (Modified)	259612
410-84933-2	Fill-2-05202022	Total/NA	Solid	537 (Modified)	259612
410-84933-3	Fill-3-05202022	Total/NA	Solid	537 (Modified)	259612
410-84933-4	Fill-4-05202022	Total/NA	Solid	537 (Modified)	259612
410-84933-5	Fill-5-05202022	Total/NA	Solid	537 (Modified)	259612
410-84933-6	DUP-1-05202022	Total/NA	Solid	537 (Modified)	259612
MB 410-259198/1-B	Method Blank	Total/NA	Solid	537 (Modified)	259612
LCS 410-259198/2-B	Lab Control Sample	Total/NA	Solid	537 (Modified)	259612
410-84933-1 MS	Fill-1-05202022	Total/NA	Solid	537 (Modified)	259612
410-84933-1 MSD	Fill-1-05202022	Total/NA	Solid	537 (Modified)	259612

Analysis Batch: 261708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-84933-7	FB-01-05202022	Total/NA	Water	537 IDA	261254
MB 410-261254/1-A	Method Blank	Total/NA	Water	537 IDA	261254
LCS 410-261254/3-A	Lab Control Sample	Total/NA	Water	537 IDA	261254
LCSD 410-261254/4-A	Lab Control Sample Dup	Total/NA	Water	537 IDA	261254

Prep Batch: 263043

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-84933-7 - RE	FB-01-05202022	Total/NA	Water	537 IDA	
MB 410-263043/1-A	Method Blank	Total/NA	Water	537 IDA	
LCS 410-263043/3-A	Lab Control Sample	Total/NA	Water	537 IDA	

Analysis Batch: 263557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-84933-7 - RE	FB-01-05202022	Total/NA	Water	537 IDA	263043
MB 410-263043/1-A	Method Blank	Total/NA	Water	537 IDA	263043
LCS 410-263043/3-A	Lab Control Sample	Total/NA	Water	537 IDA	263043

QC Association Summary

Client: Brown and Caldwell
Project/Site: Troy NY Water

Job ID: 410-84933-1

General Chemistry

Analysis Batch: 258959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-84933-1	Fill-1-05202022	Total/NA	Solid	Moisture	
410-84933-2	Fill-2-05202022	Total/NA	Solid	Moisture	
410-84933-3	Fill-3-05202022	Total/NA	Solid	Moisture	
410-84933-4	Fill-4-05202022	Total/NA	Solid	Moisture	
410-84933-5	Fill-5-05202022	Total/NA	Solid	Moisture	
410-84933-6	DUP-1-05202022	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Brown and Caldwell
Project/Site: Troy NY Water

Job ID: 410-84933-1

Client Sample ID: Fill-1-05202022 — Lab Sample ID: 410-84933-1

Date Collected: 05/20/22 08:10 — **Matrix: Solid**
Date Received: 05/21/22 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	258959	05/25/22 11:42	X4C8	ELLE

Client Sample ID: Fill-1-05202022 — Lab Sample ID: 410-84933-1

Date Collected: 05/20/22 08:10 — **Matrix: Solid**
Date Received: 05/21/22 10:05 — **Percent Solids: 93.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			261934	06/03/22 17:52	CTV6	ELLE
Total/NA	Analysis	8270E SIM		1	262637	06/06/22 21:06	UJM0	ELLE
Total/NA	Prep	SHAKE			259198	05/25/22 16:13	X5YV	ELLE
Total/NA	Cleanup	Extract Aliquot			259612	05/26/22 21:24	K9VR	ELLE
Total/NA	Analysis	537 (Modified)		1	261409	06/02/22 22:26	UUV6	ELLE

Client Sample ID: Fill-2-05202022 — Lab Sample ID: 410-84933-2

Date Collected: 05/20/22 08:15 — **Matrix: Solid**
Date Received: 05/21/22 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	258959	05/25/22 11:42	X4C8	ELLE

Client Sample ID: Fill-2-05202022 — Lab Sample ID: 410-84933-2

Date Collected: 05/20/22 08:15 — **Matrix: Solid**
Date Received: 05/21/22 10:05 — **Percent Solids: 95.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			261934	06/03/22 17:52	CTV6	ELLE
Total/NA	Analysis	8270E SIM		1	262637	06/06/22 21:37	UJM0	ELLE
Total/NA	Prep	SHAKE			259198	05/25/22 16:13	X5YV	ELLE
Total/NA	Cleanup	Extract Aliquot			259612	05/26/22 21:24	K9VR	ELLE
Total/NA	Analysis	537 (Modified)		1	261409	06/02/22 22:59	UUV6	ELLE

Client Sample ID: Fill-3-05202022 — Lab Sample ID: 410-84933-3

Date Collected: 05/20/22 08:20 — **Matrix: Solid**
Date Received: 05/21/22 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	258959	05/25/22 11:42	X4C8	ELLE

Client Sample ID: Fill-3-05202022 — Lab Sample ID: 410-84933-3

Date Collected: 05/20/22 08:20 — **Matrix: Solid**
Date Received: 05/21/22 10:05 — **Percent Solids: 93.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			261934	06/03/22 17:52	CTV6	ELLE
Total/NA	Analysis	8270E SIM		1	262637	06/06/22 22:09	UJM0	ELLE

Lab Chronicle

Client: Brown and Caldwell
Project/Site: Troy NY Water

Job ID: 410-84933-1

Client Sample ID: Fill-3-05202022 — Lab Sample ID: 410-84933-3

Date Collected: 05/20/22 08:20 — **Matrix: Solid**
Date Received: 05/21/22 10:05 — **Percent Solids: 93.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			259198	05/25/22 16:13	X5YV	ELLE
Total/NA	Cleanup	Extract Aliquot			259612	05/26/22 21:24	K9VR	ELLE
Total/NA	Analysis	537 (Modified)		1	261409	06/02/22 23:10	UUV6	ELLE

Client Sample ID: Fill-4-05202022 — Lab Sample ID: 410-84933-4

Date Collected: 05/20/22 08:25 — **Matrix: Solid**
Date Received: 05/21/22 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	258959	05/25/22 11:42	X4C8	ELLE

Client Sample ID: Fill-4-05202022 — Lab Sample ID: 410-84933-4

Date Collected: 05/20/22 08:25 — **Matrix: Solid**
Date Received: 05/21/22 10:05 — **Percent Solids: 93.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			261934	06/03/22 17:52	CTV6	ELLE
Total/NA	Analysis	8270E SIM		1	262637	06/06/22 22:40	UJM0	ELLE
Total/NA	Prep	SHAKE			259198	05/25/22 16:13	X5YV	ELLE
Total/NA	Cleanup	Extract Aliquot			259612	05/26/22 21:24	K9VR	ELLE
Total/NA	Analysis	537 (Modified)		1	261409	06/02/22 23:21	UUV6	ELLE

Client Sample ID: Fill-5-05202022 — Lab Sample ID: 410-84933-5

Date Collected: 05/20/22 08:30 — **Matrix: Solid**
Date Received: 05/21/22 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	258959	05/25/22 11:42	X4C8	ELLE

Client Sample ID: Fill-5-05202022 — Lab Sample ID: 410-84933-5

Date Collected: 05/20/22 08:30 — **Matrix: Solid**
Date Received: 05/21/22 10:05 — **Percent Solids: 95.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			261934	06/03/22 17:52	CTV6	ELLE
Total/NA	Analysis	8270E SIM		1	262637	06/06/22 23:12	UJM0	ELLE
Total/NA	Prep	SHAKE			259198	05/25/22 16:13	X5YV	ELLE
Total/NA	Cleanup	Extract Aliquot			259612	05/26/22 21:24	K9VR	ELLE
Total/NA	Analysis	537 (Modified)		1	261409	06/02/22 23:32	UUV6	ELLE

Client Sample ID: DUP-1-05202022 — Lab Sample ID: 410-84933-6

Date Collected: 05/20/22 08:45 — **Matrix: Solid**
Date Received: 05/21/22 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	258959	05/25/22 11:42	X4C8	ELLE

Lab Chronicle

Client: Brown and Caldwell
Project/Site: Troy NY Water

Job ID: 410-84933-1

Client Sample ID: DUP-1-05202022

Lab Sample ID: 410-84933-6

Date Collected: 05/20/22 08:45
Matrix: Solid
Date Received: 05/21/22 10:05
Percent Solids: 95.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			261934	06/03/22 17:52	CTV6	ELLE
Total/NA	Analysis	8270E SIM		1	262637	06/06/22 23:43	UJM0	ELLE
Total/NA	Prep	SHAKE			259198	05/25/22 16:13	X5YV	ELLE
Total/NA	Cleanup	Extract Aliquot			259612	05/26/22 21:24	K9VR	ELLE
Total/NA	Analysis	537 (Modified)		1	261409	06/02/22 23:43	UUV6	ELLE

Client Sample ID: FB-01-05202022

Lab Sample ID: 410-84933-7

Date Collected: 05/20/22 08:00
Matrix: Water
Date Received: 05/21/22 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			259883	05/27/22 15:38	MD4W	ELLE
Total/NA	Analysis	8270E SIM		1	260596	06/01/22 04:36	UJM0	ELLE
Total/NA	Prep	537 IDA			261254	06/02/22 07:41	PR5J	ELLE
Total/NA	Analysis	537 IDA		1	261708	06/03/22 16:43	ZG8V	ELLE
Total/NA	Prep	537 IDA	RE		263043	06/07/22 15:50	JU9U	ELLE
Total/NA	Analysis	537 IDA	RE	1	263557	06/08/22 19:28	QD9Y	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Brown and Caldwell
Project/Site: Troy NY Water

Job ID: 410-84933-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10670	04-01-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
537 (Modified)	SHAKE	Solid	6:2 Fluorotelomer sulfonic acid
537 (Modified)	SHAKE	Solid	8:2 Fluorotelomer sulfonic acid
537 (Modified)	SHAKE	Solid	NEtFOSAA
537 (Modified)	SHAKE	Solid	NMeFOSAA
537 (Modified)	SHAKE	Solid	Perfluorobutanesulfonic acid
537 (Modified)	SHAKE	Solid	Perfluorobutanoic acid
537 (Modified)	SHAKE	Solid	Perfluorodecanesulfonic acid
537 (Modified)	SHAKE	Solid	Perfluorodecanoic acid
537 (Modified)	SHAKE	Solid	Perfluorododecanoic acid
537 (Modified)	SHAKE	Solid	Perfluoroheptanesulfonic acid
537 (Modified)	SHAKE	Solid	Perfluoroheptanoic acid
537 (Modified)	SHAKE	Solid	Perfluorohexanesulfonic acid
537 (Modified)	SHAKE	Solid	Perfluorohexanoic acid
537 (Modified)	SHAKE	Solid	Perfluorononanoic acid
537 (Modified)	SHAKE	Solid	Perfluorooctanesulfonamide
537 (Modified)	SHAKE	Solid	Perfluorooctanesulfonic acid
537 (Modified)	SHAKE	Solid	Perfluorooctanoic acid
537 (Modified)	SHAKE	Solid	Perfluoropentanoic acid
537 (Modified)	SHAKE	Solid	Perfluorotetradecanoic acid
537 (Modified)	SHAKE	Solid	Perfluorotridecanoic acid
537 (Modified)	SHAKE	Solid	Perfluoroundecanoic acid
537 IDA	537 IDA	Water	6:2 Fluorotelomer sulfonic acid
537 IDA	537 IDA	Water	8:2 Fluorotelomer sulfonic acid
537 IDA	537 IDA	Water	NEtFOSAA
537 IDA	537 IDA	Water	NMeFOSAA
537 IDA	537 IDA	Water	Perfluorobutanesulfonic acid
537 IDA	537 IDA	Water	Perfluorobutanoic acid
537 IDA	537 IDA	Water	Perfluorodecanesulfonic acid
537 IDA	537 IDA	Water	Perfluorodecanoic acid
537 IDA	537 IDA	Water	Perfluorododecanoic acid
537 IDA	537 IDA	Water	Perfluoroheptanesulfonic acid
537 IDA	537 IDA	Water	Perfluoroheptanoic acid
537 IDA	537 IDA	Water	Perfluorohexanesulfonic acid
537 IDA	537 IDA	Water	Perfluorohexanoic acid
537 IDA	537 IDA	Water	Perfluorononanoic acid
537 IDA	537 IDA	Water	Perfluorooctanesulfonamide
537 IDA	537 IDA	Water	Perfluorooctanesulfonic acid
537 IDA	537 IDA	Water	Perfluorooctanoic acid
537 IDA	537 IDA	Water	Perfluoropentanoic acid
537 IDA	537 IDA	Water	Perfluorotetradecanoic acid
537 IDA	537 IDA	Water	Perfluorotridecanoic acid
537 IDA	537 IDA	Water	Perfluoroundecanoic acid
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

Client: Brown and Caldwell
Project/Site: Troy NY Water

Job ID: 410-84933-1

Method	Method Description	Protocol	Laboratory
8270E SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	ELLE
537 (Modified)	Fluorinated Alkyl Substances	EPA	ELLE
537 IDA	EPA 537 Isotope Dilution	EPA	ELLE
Moisture	Percent Moisture	EPA	ELLE
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	ELLE
3546	Microwave Extraction	SW846	ELLE
537 IDA	EPA 537 Isotope Dilution	EPA	ELLE
Extract Aliquot	Preparation, Extract Aliquot	None	ELLE
SHAKE	Shake Extraction with Ultrasonic Bath Extraction	SW846	ELLE

Protocol References:

EPA = US Environmental Protection Agency

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

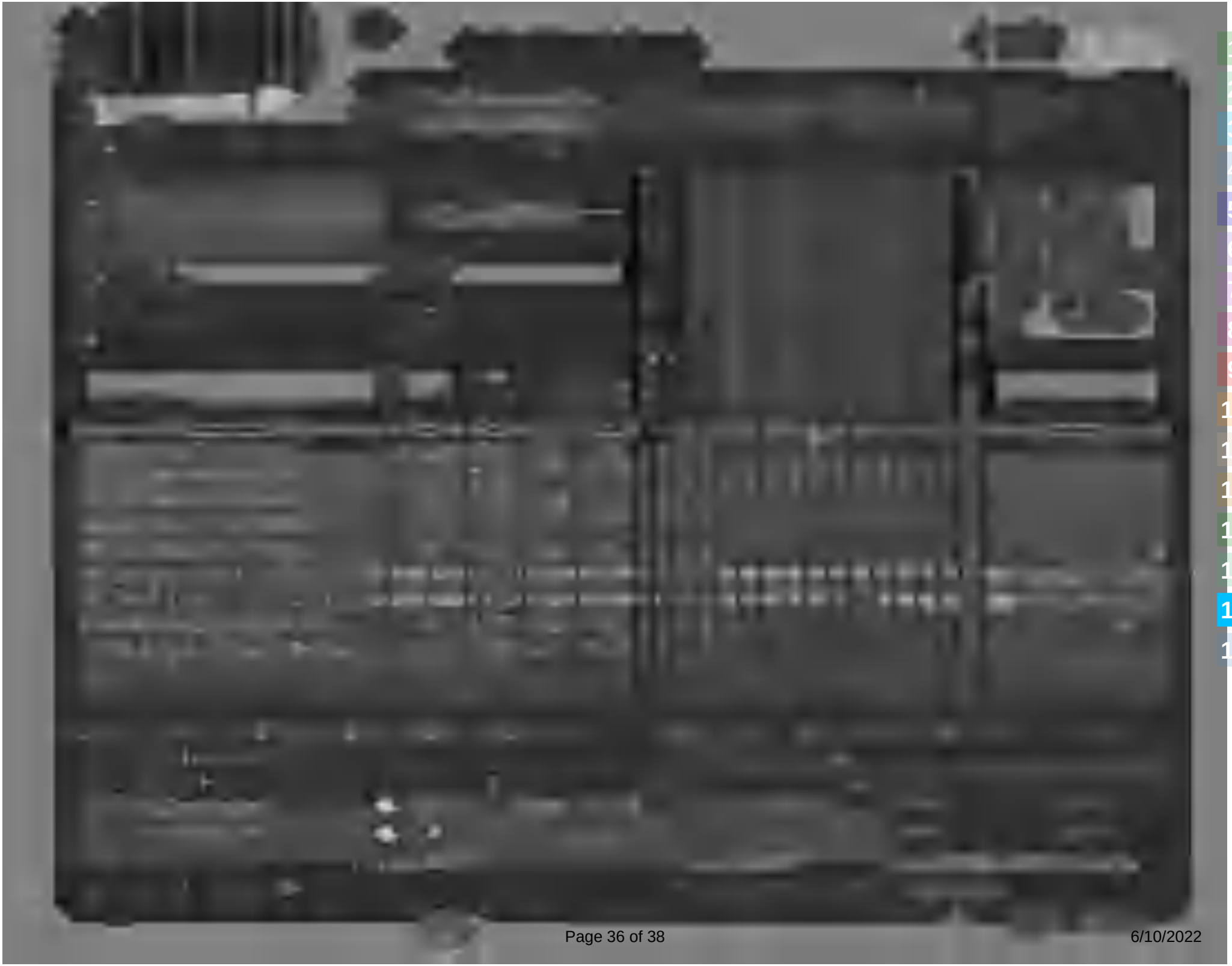
ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Brown and Caldwell
Project/Site: Troy NY Water

Job ID: 410-84933-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-84933-1	Fill-1-05202022	Solid	05/20/22 08:10	05/21/22 10:05
410-84933-2	Fill-2-05202022	Solid	05/20/22 08:15	05/21/22 10:05
410-84933-3	Fill-3-05202022	Solid	05/20/22 08:20	05/21/22 10:05
410-84933-4	Fill-4-05202022	Solid	05/20/22 08:25	05/21/22 10:05
410-84933-5	Fill-5-05202022	Solid	05/20/22 08:30	05/21/22 10:05
410-84933-6	DUP-1-05202022	Solid	05/20/22 08:45	05/21/22 10:05
410-84933-7	FB-01-05202022	Water	05/20/22 08:00	05/21/22 10:05





Login Sample Receipt Checklist

Client: Brown and Caldwell

Job Number: 410-84933-1

Login Number: 84933

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: Leakway, Christian

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	N/A	

ROUND 2: 2,000 CY COMMON FILL

Nia Gilliam

From: Spellman, John (DEC) <john.spellman@dec.ny.gov>
Sent: Friday, September 23, 2022 1:40 PM
To: Adam Gutta
Cc: Adam Sherman; Charles Atanasio; Cummins, Gerald
Subject: RE: National Grid Troy Phase 1A Request to Import Common Fill and Type II Subbase

Hi Adam,

Your September 23, 2022 request to import common fill and crushed stone from the sources identified is approved.

Regards,

John

John Spellman, P.E.
Project Manager, Remedial Bureau C
Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway, Albany, NY 12233-7014
P: 518-402-9686| F: 518-402-9679 | john.spellman@dec.ny.gov

From: Adam Gutta <agutta@BrwnCald.com>
Sent: Friday, September 23, 2022 10:26 AM
To: Spellman, John (DEC) <john.spellman@dec.ny.gov>
Cc: Adam Sherman <ASherman@Brwncald.com>; Charles Atanasio <Catanasio@BrwnCald.com>; Cummins, Gerald <Gerald.Cummins@nationalgrid.com>
Subject: National Grid Troy Phase 1A Request to Import Common Fill and Type II Subbase

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

John,

Please find attached a Request to Import for Common Fill (an additional 2,000 CY, for a total import volume 12,000 CY) and for Type II Subbase crushed stone (an additional 1,000 CY, for a total import volume of 4,500 CY). The PFAS Category B Deliverable for Common Fill (Attachment 3C) is available for download at the link below.

TroyArea2_CommonFIll_PFAS_CatBDeliverable

If you have any questions or would like to discuss, please let me know.

Thank you,

Adam Gutta, P.E.
*Professional Engineer in New York State
Brown and Caldwell

agutta@brwncald.com
T 508.819.1410 | **C** 518.729.9363

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NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e). Use of this form is not a substitute for reading the applicable Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is: Commercial or Industrial Use

Have Ecological Resources been identified? yes

Is this soil originating from the site? no

How many cubic yards of soil will be imported/reused? >1000

If greater than 1000 cubic yards will be imported, enter volume to be imported: 2,000

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone? no

Does it contain less than 10%, by weight, material that would pass a size 80 sieve? no

Is this virgin material from a permitted mine or quarry? yes

Is this material recycled concrete or brick from a DEC registered processing facility? no

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

Per email correspondence with NYSDEC Project Manager dated May 16 and 17, 2022, considering the extent of previous recent sampling and analysis of the proposed source for imported fill, the required number of samples for common fill import to the project site was established as one (1) discrete sample per 1,000 cy for VOC analysis and one (1) composite sample per 2,000 cy for analysis SVOCs, inorganics, PCBs and pesticides, and emerging contaminants. Based on this, for the requested import of 2,000 cy, 2 discrete samples were analyzed for VOCs and 1 composite sample was analyzed for SVOCs, PCBs, Pesticides/Herbicides, Metals, and Hexavalent Chromium. Additionally, 1 composite sample was collected from the stockpile for analysis of emerging contaminants PFAS and 1,4-Dioxane.

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

The analytical results for DER-10 parameters are included in Attachment 3 (results for VOCs on pages 7 to 10, SVOCs on pages 18 to 20, PCBs on page 29, Pesticides/Herbicides on pages 33 to 34, Hexavalent Chromium on page 50, and Metals on page 40).

The analytical results for emerging contaminant 1,4-Dioxane and PFAS are included in Attachment 4a. Attachment 4b (NYS Category B Deliverable for 1,4-Dioxane results) and 4c (NYS Category B Deliverable for PFAS results) will be uploaded to the project OneDrive due to file size.

The results of the DER-10 analytical results are below allowable levels for Commercial or Industrial Use and for Protection of Ecological Resources. Emerging contaminants 1,4-Dioxane and PFAS were not detected.

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

Stephen A. Valente, Quality Representative, RJ Valente Gravel

Location where fill was obtained:

RJ Valente, George Thompson Road, Mechanicville, NY 12118

Identification of any state or local approvals as a fill source:

Mine ID 50049

If no approvals are available, provide a brief history of the use of the property that is the fill source:

Refer to Attachment 1.

Provide a list of supporting documentation included with this request:

Attachment 1 - Source Certification Statement
Attachment 2 - Results of Geotechnical Testing
Attachment 3 - Results of DER-10 Analytical Testing
Attachments 4a, 4b, and 4c- Results of Emerging Contaminant (1,4-Dioxane and PFAS) Testing

The information provided on this form is accurate and complete.

Adam Gutta Digitally signed by Adam Gutta
DN: CN=Adam Gutta, OU=Middleboro, OU=User, OU=Accounts, OU=BC, DC=bc, DC=brwncald, DC=com
Date: 2022.09.23 10:06:37-04'00'

Signature

9/23/2022

Date

Adam Gutta

Print Name

Brown and Caldwell

Firm

RJ VALENTE GRAVEL Inc.
1 MADISON ST.SUITE 300
TROY NY 12180
518-279-1001



Attachment 1 - Source Certification Letter

TO WHOM IT MAY CONCERN:

As per your request, please accept this correspondence as follows: For the Troy (Water Street) - Phase 1A Remediation - Former MGP project in Troy, NY.

All imported materials to be delivered to the above referenced project, do not, to the best of our knowledge contain any known contamination from prior historical, industrial, commercial development or agricultural use prior to delivery.

The fill material originates from the following virgin sand and gravel pit:
Mackay Pit as designated by the NYS DEC at, George Thompson Rd. Mechanicville NY 12118.

Luther Forest Mine - Mine ID # 50049

STEPHEN A.VALENTE

CONSTRUCTION TECHNOLOGY

INSPECTION & TESTING DIVISION, P.D.& T.S., INC.
4 William Street, Ballston Lake, New York 12019
Phone: (518) 399-1848 Email: constructiontech@live.com

Attachment 2 - Geotechnical Testing

CLIENT: **LAND REMEDIATION**
74 HUDSON RIVER ROAD
WATERFORD, NEW YORK 12188

REPORT DATE: 08/11/21
SAMPLE NUMBER: 21357
OUR FILE NUMBER: 1526.015
LAB TECHNICIAN: BOB BEHAN

ATT'N: MR. JONATHON BORRELLI
PROJECT: **NATIONAL GRID PROJECT: COHOES, NEW YORK**

REPORT OF MOISTURE / DENSITY RELATION OF SOILS ::: PROCTOR

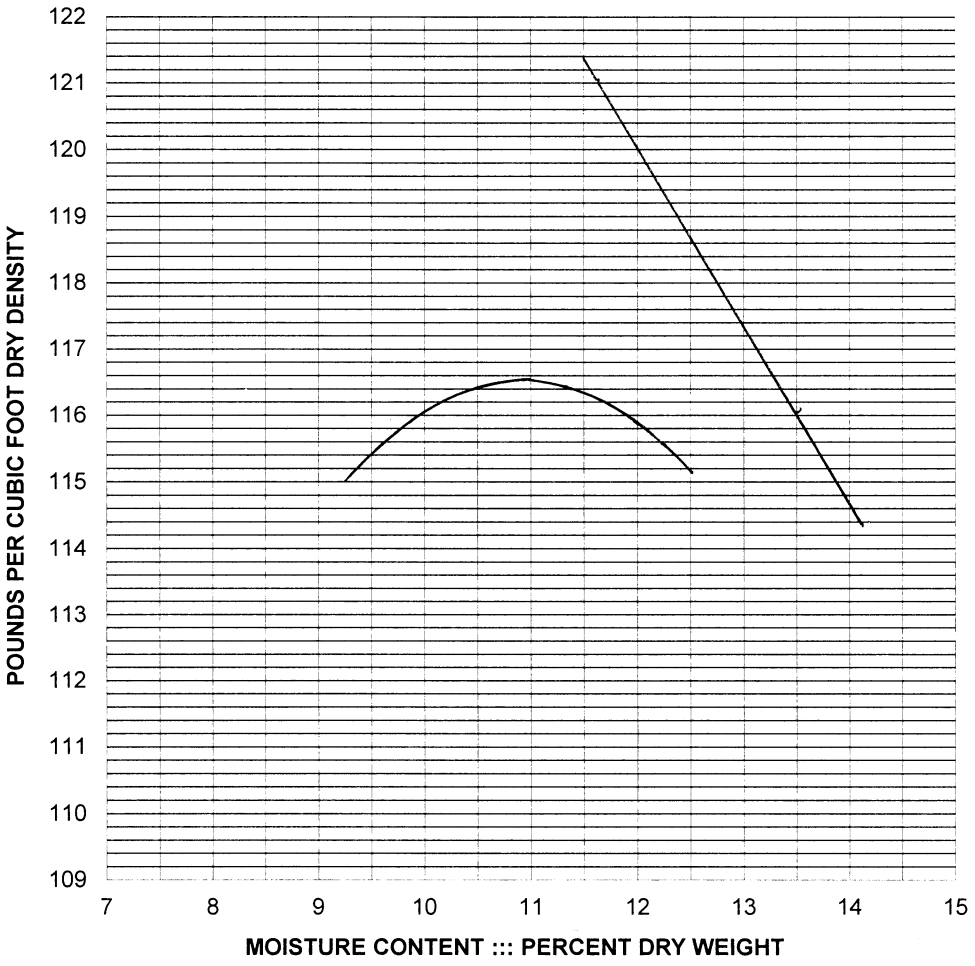
MATERIAL SOURCE: **BORROW: COMMON FILL**
MATERIAL DESCRIPTION: SAND, fine/medium; trace Silt/Clay; trace fine Gravel
PROCTOR METHOD: ASTM D-1557: MODIFIED EFFORT
GRADATION METHOD: ASTM D-1140 / D-422: WASHED

MAXIMUM DENSITY **116.6** PCF
OPTIMUM MOISTURE **10.9** %

GRADATION

SIEVE SIZE	PERCENT PASSING	SPECIFICATION ALLOWANCE
4"		
3"		
2 1/2"		
2"		
1 1/2"		
1"		
3/4"		
1/2"		
3/8"	100.0	
1/4"	98.7	
#4	97.8	
1/8"		
#8	94.4	
#10		
#16	88.2	
#20		
#30	72.8	
#40	57.4	
#50	36.9	
#60		
#80		
#100	14.6	
#140		
#200	8.8	

ZERO AIR VOIDS CURVE: 2.50 SPECIFIC GRAVITY



REPORT DISTRIBUTION:	GENERAL NOTES:	Respectfully,
1:		**CONSTRUCTION TECHNOLOGY**
2:		
3:		*Robert Behan*
4:		ROBERT BEHAN, (NICET)
5:		MANAGER TECHNICAL SERVICES

Attachment 3 - DER-10 Semivolatile, PCBs, Pesticides, Hexavalent Chromium, Metals, and VOC Analytical Results

ANALYTICAL REPORT

Lab Number:	L2247100
Client:	Land Remediation, Inc. 74 Hudson River Road Waterford, NY 12188
ATTN:	Jonathan Borrelli
Phone:	(203) 233-4100
Project Name:	TROY (WATER STREET) PHASE 1A
Project Number:	TROY (WATER STREET)
Report Date:	09/07/22

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: TROY (WATER STREET) PHASE 1A
Project Number: TROY (WATER STREET)

Lab Number: L2247100
Report Date: 09/07/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2247100-01	TROY-CF-6	SOIL	8000 MAIN STREET, TROY, NY 12180	08/30/22 14:15	08/30/22
L2247100-02	TROY-CF-6A	SOIL	8000 MAIN STREET, TROY, NY 12180	08/30/22 14:30	08/30/22

Project Name:	TROY (WATER STREET) PHASE 1A	**Lab Number:**	L2247100
Project Number:	TROY (WATER STREET)	**Report Date:**	09/07/22

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	TROY (WATER STREET) PHASE 1A	**Lab Number:**	L2247100
Project Number:	TROY (WATER STREET)	**Report Date:**	09/07/22

Case Narrative (continued)

Total Metals

L2247100-01: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

Cyanide, Total

The WG1682049-3 LCSD recovery for cyanide, total (70%), associated with L2247100-01, is outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Michelle M. Morris

Title: Technical Director/Representative Date: 09/07/22

ORGANICS

VOLATILES

Project Name: TROY (WATER STREET) PHASE 1A **Lab Number:** L2247100

Project Number: TROY (WATER STREET) **Report Date:** 09/07/22

SAMPLE RESULTS

Lab ID: L2247100-01
Client ID: TROY-CF-6
Sample Location: 8000 MAIN STREET, TROY, NY 12180

Date Collected: 08/30/22 14:15
Date Received: 08/30/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 09/02/22 09:39
Analyst: JC
Percent Solids: 96%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.4	--	1
1,1-Dichloroethane	ND		ug/kg	1.1	--	1
Chloroform	ND		ug/kg	1.6	--	1
Carbon tetrachloride	ND		ug/kg	1.1	--	1
1,2-Dichloropropane	ND		ug/kg	1.1	--	1
Dibromochloromethane	ND		ug/kg	1.1	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	--	1
Tetrachloroethene	ND		ug/kg	0.54	--	1
Chlorobenzene	ND		ug/kg	0.54	--	1
Trichlorofluoromethane	ND		ug/kg	4.3	--	1
1,2-Dichloroethane	ND		ug/kg	1.1	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.54	--	1
Bromodichloromethane	ND		ug/kg	0.54	--	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.54	--	1
Bromoform	ND		ug/kg	4.3	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.54	--	1
Benzene	ND		ug/kg	0.54	--	1
Toluene	ND		ug/kg	1.1	--	1
Ethylbenzene	ND		ug/kg	1.1	--	1
Chloromethane	ND		ug/kg	4.3	--	1
Bromomethane	ND		ug/kg	2.1	--	1
Vinyl chloride	ND		ug/kg	1.1	--	1
Chloroethane	ND		ug/kg	2.1	--	1
1,1-Dichloroethene	ND		ug/kg	1.1	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	--	1
Trichloroethene	ND		ug/kg	0.54	--	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	--	1

Project Name: TROY (WATER STREET) PHASE 1A **Lab Number:** L2247100

Project Number: TROY (WATER STREET) **Report Date:** 09/07/22

SAMPLE RESULTS

Lab ID: L2247100-01 Date Collected: 08/30/22 14:15

Client ID: TROY-CF-6 Date Received: 08/30/22

Sample Location: 8000 MAIN STREET, TROY, NY 12180 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.1	--	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	--	1
Methyl tert butyl ether	ND		ug/kg	2.1	--	1
p/m-Xylene	ND		ug/kg	2.1	--	1
o-Xylene	ND		ug/kg	1.1	--	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	--	1
Styrene	ND		ug/kg	1.1	--	1
Dichlorodifluoromethane	ND		ug/kg	11	--	1
Acetone	ND		ug/kg	11	--	1
Carbon disulfide	ND		ug/kg	11	--	1
2-Butanone	ND		ug/kg	11	--	1
4-Methyl-2-pentanone	ND		ug/kg	11	--	1
2-Hexanone	ND		ug/kg	11	--	1
Bromochloromethane	ND		ug/kg	2.1	--	1
1,2-Dibromoethane	ND		ug/kg	1.1	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.2	--	1
Isopropylbenzene	ND		ug/kg	1.1	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	--	1
Methyl Acetate	ND		ug/kg	4.3	--	1
Cyclohexane	ND		ug/kg	11	--	1
1,4-Dioxane	ND		ug/kg	86	--	1
Freon-113	ND		ug/kg	4.3	--	1
Methyl cyclohexane	ND		ug/kg	4.3	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	107		70-130

Project Name: TROY (WATER STREET) PHASE 1A **Lab Number:** L2247100

Project Number: TROY (WATER STREET) **Report Date:** 09/07/22

SAMPLE RESULTS

Lab ID: L2247100-02
Client ID: TROY-CF-6A
Sample Location: 8000 MAIN STREET, TROY, NY 12180

Date Collected: 08/30/22 14:30
Date Received: 08/30/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 09/02/22 09:58
Analyst: JC
Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.3	--	1
1,1-Dichloroethane	ND		ug/kg	1.0	--	1
Chloroform	ND		ug/kg	1.6	--	1
Carbon tetrachloride	ND		ug/kg	1.0	--	1
1,2-Dichloropropane	ND		ug/kg	1.0	--	1
Dibromochloromethane	ND		ug/kg	1.0	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	--	1
Tetrachloroethene	ND		ug/kg	0.53	--	1
Chlorobenzene	ND		ug/kg	0.53	--	1
Trichlorofluoromethane	ND		ug/kg	4.2	--	1
1,2-Dichloroethane	ND		ug/kg	1.0	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.53	--	1
Bromodichloromethane	ND		ug/kg	0.53	--	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.53	--	1
Bromoform	ND		ug/kg	4.2	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.53	--	1
Benzene	ND		ug/kg	0.53	--	1
Toluene	ND		ug/kg	1.0	--	1
Ethylbenzene	ND		ug/kg	1.0	--	1
Chloromethane	ND		ug/kg	4.2	--	1
Bromomethane	ND		ug/kg	2.1	--	1
Vinyl chloride	ND		ug/kg	1.0	--	1
Chloroethane	ND		ug/kg	2.1	--	1
1,1-Dichloroethene	ND		ug/kg	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	--	1
Trichloroethene	ND		ug/kg	0.53	--	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	--	1

Project Name: TROY (WATER STREET) PHASE 1A **Lab Number:** L2247100

Project Number: TROY (WATER STREET) **Report Date:** 09/07/22

SAMPLE RESULTS

Lab ID: L2247100-02 Date Collected: 08/30/22 14:30

Client ID: TROY-CF-6A Date Received: 08/30/22

Sample Location: 8000 MAIN STREET, TROY, NY 12180 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.1	--	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	--	1
Methyl tert butyl ether	ND		ug/kg	2.1	--	1
p/m-Xylene	ND		ug/kg	2.1	--	1
o-Xylene	ND		ug/kg	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--	1
Styrene	ND		ug/kg	1.0	--	1
Dichlorodifluoromethane	ND		ug/kg	10	--	1
Acetone	ND		ug/kg	10	--	1
Carbon disulfide	ND		ug/kg	10	--	1
2-Butanone	ND		ug/kg	10	--	1
4-Methyl-2-pentanone	ND		ug/kg	10	--	1
2-Hexanone	ND		ug/kg	10	--	1
Bromochloromethane	ND		ug/kg	2.1	--	1
1,2-Dibromoethane	ND		ug/kg	1.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.2	--	1
Isopropylbenzene	ND		ug/kg	1.0	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	--	1
Methyl Acetate	ND		ug/kg	4.2	--	1
Cyclohexane	ND		ug/kg	10	--	1
1,4-Dioxane	ND		ug/kg	85	--	1
Freon-113	ND		ug/kg	4.2	--	1
Methyl cyclohexane	ND		ug/kg	4.2	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	123		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	109		70-130

Project Name: TROY (WATER STREET) PHASE 1A **Lab Number:** L2247100

Project Number: TROY (WATER STREET) **Report Date:** 09/07/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/02/22 08:18
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-02 Batch: WG1684308-5					
Methylene chloride	ND		ug/kg	5.0	--
1,1-Dichloroethane	ND		ug/kg	1.0	--
Chloroform	ND		ug/kg	1.5	--
Carbon tetrachloride	ND		ug/kg	1.0	--
1,2-Dichloropropane	ND		ug/kg	1.0	--
Dibromochloromethane	ND		ug/kg	1.0	--
1,1,2-Trichloroethane	ND		ug/kg	1.0	--
Tetrachloroethene	ND		ug/kg	0.50	--
Chlorobenzene	ND		ug/kg	0.50	--
Trichlorofluoromethane	ND		ug/kg	4.0	--
1,2-Dichloroethane	ND		ug/kg	1.0	--
1,1,1-Trichloroethane	ND		ug/kg	0.50	--
Bromodichloromethane	ND		ug/kg	0.50	--
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--
cis-1,3-Dichloropropene	ND		ug/kg	0.50	--
Bromoform	ND		ug/kg	4.0	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	--
Benzene	ND		ug/kg	0.50	--
Toluene	ND		ug/kg	1.0	--
Ethylbenzene	ND		ug/kg	1.0	--
Chloromethane	ND		ug/kg	4.0	--
Bromomethane	ND		ug/kg	2.0	--
Vinyl chloride	ND		ug/kg	1.0	--
Chloroethane	ND		ug/kg	2.0	--
1,1-Dichloroethene	ND		ug/kg	1.0	--
trans-1,2-Dichloroethene	ND		ug/kg	1.5	--
Trichloroethene	ND		ug/kg	0.50	--
1,2-Dichlorobenzene	ND		ug/kg	2.0	--
1,3-Dichlorobenzene	ND		ug/kg	2.0	--

Project Name: TROY (WATER STREET) PHASE 1A **Lab Number:** L2247100

Project Number: TROY (WATER STREET) **Report Date:** 09/07/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/02/22 08:18
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-02 Batch: WG1684308-5					
1,4-Dichlorobenzene	ND		ug/kg	2.0	--
Methyl tert butyl ether	ND		ug/kg	2.0	--
p/m-Xylene	ND		ug/kg	2.0	--
o-Xylene	ND		ug/kg	1.0	--
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--
Styrene	ND		ug/kg	1.0	--
Dichlorodifluoromethane	ND		ug/kg	10	--
Acetone	ND		ug/kg	10	--
Carbon disulfide	ND		ug/kg	10	--
2-Butanone	ND		ug/kg	10	--
4-Methyl-2-pentanone	ND		ug/kg	10	--
2-Hexanone	ND		ug/kg	10	--
Bromochloromethane	ND		ug/kg	2.0	--
1,2-Dibromoethane	ND		ug/kg	1.0	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	--
Isopropylbenzene	ND		ug/kg	1.0	--
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	--
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	--
Methyl Acetate	ND		ug/kg	4.0	--
Cyclohexane	ND		ug/kg	10	--
1,4-Dioxane	ND		ug/kg	80	--
Freon-113	ND		ug/kg	4.0	--
Methyl cyclohexane	ND		ug/kg	4.0	--

Project Name: TROY (WATER STREET) PHASE 1A **Lab Number:** L2247100

Project Number: TROY (WATER STREET) **Report Date:** 09/07/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/02/22 08:18
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-02 Batch: WG1684308-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	99		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: TROY (WATER STREET) PHASE 1A

Project Number: TROY (WATER STREET)

Lab Number: L2247100

Report Date: 09/07/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-02 Batch: WG1684308-3 WG1684308-4								
Methylene chloride	92		92		70-130	0		30
1,1-Dichloroethane	95		94		70-130	1		30
Chloroform	84		86		70-130	2		30
Carbon tetrachloride	77		76		70-130	1		30
1,2-Dichloropropane	94		95		70-130	1		30
Dibromochloromethane	80		82		70-130	2		30
1,1,2-Trichloroethane	92		95		70-130	3		30
Tetrachloroethene	83		81		70-130	2		30
Chlorobenzene	88		87		70-130	1		30
Trichlorofluoromethane	87		84		70-139	4		30
1,2-Dichloroethane	91		93		70-130	2		30
1,1,1-Trichloroethane	86		84		70-130	2		30
Bromodichloromethane	81		82		70-130	1		30
trans-1,3-Dichloropropene	88		91		70-130	3		30
cis-1,3-Dichloropropene	90		90		70-130	0		30
Bromoform	77		78		70-130	1		30
1,1,2,2-Tetrachloroethane	94		96		70-130	2		30
Benzene	90		89		70-130	1		30
Toluene	81		80		70-130	1		30
Ethylbenzene	86		84		70-130	2		30
Chloromethane	118		115		52-130	3		30
Bromomethane	97		95		57-147	2		30
Vinyl chloride	108		102		67-130	6		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: TROY (WATER STREET) PHASE 1A

Project Number: TROY (WATER STREET)

Lab Number: L2247100

Report Date: 09/07/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-02 Batch: WG1684308-3 WG1684308-4								
Chloroethane	112		108		50-151	4		30
1,1-Dichloroethene	93		89		65-135	4		30
trans-1,2-Dichloroethene	84		81		70-130	4		30
Trichloroethene	89		88		70-130	1		30
1,2-Dichlorobenzene	86		85		70-130	1		30
1,3-Dichlorobenzene	87		85		70-130	2		30
1,4-Dichlorobenzene	80		79		70-130	1		30
Methyl tert butyl ether	81		84		66-130	4		30
p/m-Xylene	86		84		70-130	2		30
o-Xylene	86		85		70-130	1		30
cis-1,2-Dichloroethene	80		80		70-130	0		30
Styrene	87		87		70-130	0		30
Dichlorodifluoromethane	90		88		30-146	2		30
Acetone	116		123		54-140	6		30
Carbon disulfide	97		94		59-130	3		30
2-Butanone	97		105		70-130	8		30
4-Methyl-2-pentanone	83		90		70-130	8		30
2-Hexanone	80		88		70-130	10		30
Bromochloromethane	85		87		70-130	2		30
1,2-Dibromoethane	86		89		70-130	3		30
1,2-Dibromo-3-chloropropane	74		80		68-130	8		30
Isopropylbenzene	85		82		70-130	4		30
1,2,3-Trichlorobenzene	83		84		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: TROY (WATER STREET) PHASE 1A

Project Number: TROY (WATER STREET)

Lab Number: L2247100

Report Date: 09/07/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-02 Batch: WG1684308-3 WG1684308-4								
1,2,4-Trichlorobenzene	81		82		70-130	1		30
Methyl Acetate	106		113		51-146	6		30
Cyclohexane	93		88		59-142	6		30
1,4-Dioxane	84		92		65-136	9		30
Freon-113	90		88		50-139	2		30
Methyl cyclohexane	84		81		70-130	4		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	104		106		70-130
Toluene-d8	101		101		70-130
4-Bromofluorobenzene	96		95		70-130
Dibromofluoromethane	101		102		70-130

SEMIVOLATILES

Project Name: TROY (WATER STREET) PHASE 1A
Lab Number: L2247100
Project Number: TROY (WATER STREET)
Report Date: 09/07/22

SAMPLE RESULTS

Lab ID: L2247100-01
Client ID: TROY-CF-6
Sample Location: 8000 MAIN STREET, TROY, NY 12180

Date Collected: 08/30/22 14:15
Date Received: 08/30/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 09/03/22 20:54
Analyst: JG
Percent Solids: 96%

Extraction Method: EPA 3546
Extraction Date: 09/03/22 02:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	--	1
Hexachlorobenzene	ND		ug/kg	100	--	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	--	1
2-Chloronaphthalene	ND		ug/kg	170	--	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	--	1
2,4-Dinitrotoluene	ND		ug/kg	170	--	1
2,6-Dinitrotoluene	ND		ug/kg	170	--	1
Fluoranthene	ND		ug/kg	100	--	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	--	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	--	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	--	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	--	1
Hexachlorobutadiene	ND		ug/kg	170	--	1
Hexachlorocyclopentadiene	ND		ug/kg	500	--	1
Hexachloroethane	ND		ug/kg	140	--	1
Isophorone	ND		ug/kg	160	--	1
Naphthalene	ND		ug/kg	170	--	1
Nitrobenzene	ND		ug/kg	160	--	1
NDPA/DPA	ND		ug/kg	140	--	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	--	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	--	1
Butyl benzyl phthalate	ND		ug/kg	170	--	1
Di-n-butylphthalate	ND		ug/kg	170	--	1
Di-n-octylphthalate	ND		ug/kg	170	--	1
Diethyl phthalate	ND		ug/kg	170	--	1
Dimethyl phthalate	ND		ug/kg	170	--	1
Benzo(a)anthracene	ND		ug/kg	100	--	1
Benzo(a)pyrene	ND		ug/kg	140	--	1

Project Name: TROY (WATER STREET) PHASE 1A **Lab Number:** L2247100

Project Number: TROY (WATER STREET) **Report Date:** 09/07/22

SAMPLE RESULTS

Lab ID: L2247100-01 Date Collected: 08/30/22 14:15

Client ID: TROY-CF-6 Date Received: 08/30/22

Sample Location: 8000 MAIN STREET, TROY, NY 12180 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	ND		ug/kg	100	--	1
Benzo(k)fluoranthene	ND		ug/kg	100	--	1
Chrysene	ND		ug/kg	100	--	1
Acenaphthylene	ND		ug/kg	140	--	1
Anthracene	ND		ug/kg	100	--	1
Benzo(ghi)perylene	ND		ug/kg	140	--	1
Fluorene	ND		ug/kg	170	--	1
Phenanthrene	ND		ug/kg	100	--	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	--	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	--	1
Pyrene	ND		ug/kg	100	--	1
Biphenyl	ND		ug/kg	400	--	1
4-Chloroaniline	ND		ug/kg	170	--	1
2-Nitroaniline	ND		ug/kg	170	--	1
3-Nitroaniline	ND		ug/kg	170	--	1
4-Nitroaniline	ND		ug/kg	170	--	1
Dibenzofuran	ND		ug/kg	170	--	1
2-Methylnaphthalene	ND		ug/kg	210	--	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	--	1
Acetophenone	ND		ug/kg	170	--	1
2,4,6-Trichlorophenol	ND		ug/kg	100	--	1
p-Chloro-m-cresol	ND		ug/kg	170	--	1
2-Chlorophenol	ND		ug/kg	170	--	1
2,4-Dichlorophenol	ND		ug/kg	160	--	1
2,4-Dimethylphenol	ND		ug/kg	170	--	1
2-Nitrophenol	ND		ug/kg	370	--	1
4-Nitrophenol	ND		ug/kg	240	--	1
2,4-Dinitrophenol	ND		ug/kg	830	--	1
4,6-Dinitro-o-cresol	ND		ug/kg	450	--	1
Pentachlorophenol	ND		ug/kg	140	--	1
Phenol	ND		ug/kg	170	--	1
2-Methylphenol	ND		ug/kg	170	--	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	--	1
2,4,5-Trichlorophenol	ND		ug/kg	170	--	1
Carbazole	ND		ug/kg	170	--	1
Atrazine	ND		ug/kg	140	--	1
Benzaldehyde	ND		ug/kg	230	--	1

Project Name: TROY (WATER STREET) PHASE 1A **Lab Number:** L2247100

Project Number: TROY (WATER STREET) **Report Date:** 09/07/22

SAMPLE RESULTS

Lab ID: L2247100-01 Date Collected: 08/30/22 14:15

Client ID: TROY-CF-6 Date Received: 08/30/22

Sample Location: 8000 MAIN STREET, TROY, NY 12180 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	170	--	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	170	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	103		25-120
Phenol-d6	103		10-120
Nitrobenzene-d5	94		23-120
2-Fluorobiphenyl	87		30-120
2,4,6-Tribromophenol	117		10-136
4-Terphenyl-d14	105		18-120

Project Name: TROY (WATER STREET) PHASE 1A
Project Number: TROY (WATER STREET)
Lab Number: L2247100
Report Date: 09/07/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/03/22 15:55
Analyst: MG

Extraction Method: EPA 3546
Extraction Date: 09/03/22 02:45

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1683171-1					
Acenaphthene	ND		ug/kg	130	--
Hexachlorobenzene	ND		ug/kg	99	--
Bis(2-chloroethyl)ether	ND		ug/kg	150	--
2-Chloronaphthalene	ND		ug/kg	160	--
3,3'-Dichlorobenzidine	ND		ug/kg	160	--
2,4-Dinitrotoluene	ND		ug/kg	160	--
2,6-Dinitrotoluene	ND		ug/kg	160	--
Fluoranthene	ND		ug/kg	99	--
4-Chlorophenyl phenyl ether	ND		ug/kg	160	--
4-Bromophenyl phenyl ether	ND		ug/kg	160	--
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	--
Bis(2-chloroethoxy)methane	ND		ug/kg	180	--
Hexachlorobutadiene	ND		ug/kg	160	--
Hexachlorocyclopentadiene	ND		ug/kg	470	--
Hexachloroethane	ND		ug/kg	130	--
Isophorone	ND		ug/kg	150	--
Naphthalene	ND		ug/kg	160	--
Nitrobenzene	ND		ug/kg	150	--
NDPA/DPA	ND		ug/kg	130	--
n-Nitrosodi-n-propylamine	ND		ug/kg	160	--
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	--
Butyl benzyl phthalate	ND		ug/kg	160	--
Di-n-butylphthalate	ND		ug/kg	160	--
Di-n-octylphthalate	ND		ug/kg	160	--
Diethyl phthalate	ND		ug/kg	160	--
Dimethyl phthalate	ND		ug/kg	160	--
Benzo(a)anthracene	ND		ug/kg	99	--
Benzo(a)pyrene	ND		ug/kg	130	--
Benzo(b)fluoranthene	ND		ug/kg	99	--

Project Name: TROY (WATER STREET) PHASE 1A **Lab Number:** L2247100

Project Number: TROY (WATER STREET) **Report Date:** 09/07/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/03/22 15:55
Analyst: MG

Extraction Method: EPA 3546
Extraction Date: 09/03/22 02:45

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1683171-1					
Benzo(k)fluoranthene	ND		ug/kg	99	--
Chrysene	ND		ug/kg	99	--
Acenaphthylene	ND		ug/kg	130	--
Anthracene	ND		ug/kg	99	--
Benzo(ghi)perylene	ND		ug/kg	130	--
Fluorene	ND		ug/kg	160	--
Phenanthrene	ND		ug/kg	99	--
Dibenzo(a,h)anthracene	ND		ug/kg	99	--
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	--
Pyrene	ND		ug/kg	99	--
Biphenyl	ND		ug/kg	380	--
4-Chloroaniline	ND		ug/kg	160	--
2-Nitroaniline	ND		ug/kg	160	--
3-Nitroaniline	ND		ug/kg	160	--
4-Nitroaniline	ND		ug/kg	160	--
Dibenzofuran	ND		ug/kg	160	--
2-Methylnaphthalene	ND		ug/kg	200	--
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	--
Acetophenone	ND		ug/kg	160	--
2,4,6-Trichlorophenol	ND		ug/kg	99	--
p-Chloro-m-cresol	ND		ug/kg	160	--
2-Chlorophenol	ND		ug/kg	160	--
2,4-Dichlorophenol	ND		ug/kg	150	--
2,4-Dimethylphenol	ND		ug/kg	160	--
2-Nitrophenol	ND		ug/kg	360	--
4-Nitrophenol	ND		ug/kg	230	--
2,4-Dinitrophenol	ND		ug/kg	800	--
4,6-Dinitro-o-cresol	ND		ug/kg	430	--
Pentachlorophenol	ND		ug/kg	130	--

Project Name: TROY (WATER STREET) PHASE 1A
Project Number: TROY (WATER STREET)
Lab Number: L2247100
Report Date: 09/07/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/03/22 15:55
Analyst: MG

Extraction Method: EPA 3546
Extraction Date: 09/03/22 02:45

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1683171-1					
Phenol	ND		ug/kg	160	--
2-Methylphenol	ND		ug/kg	160	--
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	--
2,4,5-Trichlorophenol	ND		ug/kg	160	--
Carbazole	ND		ug/kg	160	--
Atrazine	ND		ug/kg	130	--
Benzaldehyde	ND		ug/kg	220	--
Caprolactam	ND		ug/kg	160	--
2,3,4,6-Tetrachlorophenol	ND		ug/kg	160	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	95		25-120
Phenol-d6	98		10-120
Nitrobenzene-d5	89		23-120
2-Fluorobiphenyl	82		30-120
2,4,6-Tribromophenol	95		10-136
4-Terphenyl-d14	95		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: TROY (WATER STREET) PHASE 1A

Project Number: TROY (WATER STREET)

Lab Number: L2247100

Report Date: 09/07/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1683171-2 WG1683171-3								
Acenaphthene	62		67		31-137	8		50
Hexachlorobenzene	67		75		40-140	11		50
Bis(2-chloroethyl)ether	70		77		40-140	10		50
2-Chloronaphthalene	56		60		40-140	7		50
3,3'-Dichlorobenzidine	61		70		40-140	14		50
2,4-Dinitrotoluene	64		71		40-132	10		50
2,6-Dinitrotoluene	53		60		40-140	12		50
Fluoranthene	65		71		40-140	9		50
4-Chlorophenyl phenyl ether	62		69		40-140	11		50
4-Bromophenyl phenyl ether	63		69		40-140	9		50
Bis(2-chloroisopropyl)ether	43		47		40-140	9		50
Bis(2-chloroethoxy)methane	69		78		40-117	12		50
Hexachlorobutadiene	53		55		40-140	4		50
Hexachlorocyclopentadiene	**34**	Q	**38**	Q	40-140	11		50
Hexachloroethane	64		69		40-140	8		50
Isophorone	62		70		40-140	12		50
Naphthalene	61		64		40-140	5		50
Nitrobenzene	64		71		40-140	10		50
NDPA/DPA	63		71		36-157	12		50
n-Nitrosodi-n-propylamine	68		77		32-121	12		50
Bis(2-ethylhexyl)phthalate	75		86		40-140	14		50
Butyl benzyl phthalate	70		80		40-140	13		50
Di-n-butylphthalate	73		82		40-140	12		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: TROY (WATER STREET) PHASE 1A

Project Number: TROY (WATER STREET)

Lab Number: L2247100

Report Date: 09/07/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1683171-2 WG1683171-3								
Di-n-octylphthalate	78		89		40-140	13		50
Diethyl phthalate	64		73		40-140	13		50
Dimethyl phthalate	51		58		40-140	13		50
Benzo(a)anthracene	64		71		40-140	10		50
Benzo(a)pyrene	72		72		40-140	0		50
Benzo(b)fluoranthene	79		80		40-140	1		50
Benzo(k)fluoranthene	63		66		40-140	5		50
Chrysene	66		74		40-140	11		50
Acenaphthylene	55		61		40-140	10		50
Anthracene	68		75		40-140	10		50
Benzo(ghi)perylene	67		67		40-140	0		50
Fluorene	65		70		40-140	7		50
Phenanthrene	65		72		40-140	10		50
Dibenzo(a,h)anthracene	67		68		40-140	1		50
Indeno(1,2,3-cd)pyrene	73		74		40-140	1		50
Pyrene	65		71		35-142	9		50
Biphenyl	56		60		37-127	7		50
4-Chloroaniline	**38**	Q	42		40-140	10		50
2-Nitroaniline	58		63		47-134	8		50
3-Nitroaniline	60		68		26-129	13		50
4-Nitroaniline	67		78		41-125	15		50
Dibenzofuran	65		72		40-140	10		50
2-Methylnaphthalene	60		64		40-140	6		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: TROY (WATER STREET) PHASE 1A

Project Number: TROY (WATER STREET)

Lab Number: L2247100

Report Date: 09/07/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1683171-2 WG1683171-3								
1,2,4,5-Tetrachlorobenzene	53		57		40-117	7		50
Acetophenone	62		70		14-144	12		50
2,4,6-Trichlorophenol	51		57		30-130	11		50
p-Chloro-m-cresol	58		65		26-103	11		50
2-Chlorophenol	64		72		25-102	12		50
2,4-Dichlorophenol	61		70		30-130	14		50
2,4-Dimethylphenol	62		71		30-130	14		50
2-Nitrophenol	64		74		30-130	14		50
4-Nitrophenol	55		62		11-114	12		50
2,4-Dinitrophenol	12		13		4-130	8		50
4,6-Dinitro-o-cresol	44		55		10-130	22		50
Pentachlorophenol	29		37		17-109	24		50
Phenol	67		75		26-90	11		50
2-Methylphenol	65		74		30-130.	13		50
3-Methylphenol/4-Methylphenol	63		74		30-130	16		50
2,4,5-Trichlorophenol	55		61		30-130	10		50
Carbazole	69		75		54-128	8		50
Atrazine	62		72		40-140	15		50
Benzaldehyde	82		88		40-140	7		50
Caprolactam	42		48		15-130	13		50
2,3,4,6-Tetrachlorophenol	61		71		40-140	15		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: TROY (WATER STREET) PHASE 1A
Project Number: TROY (WATER STREET)
Lab Number: L2247100
Report Date: 09/07/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1683171-2 WG1683171-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	74		81		25-120
Phenol-d6	76		87		10-120
Nitrobenzene-d5	70		78		23-120
2-Fluorobiphenyl	58		64		30-120
2,4,6-Tribromophenol	79		92		10-136
4-Terphenyl-d14	72		82		18-120

PCBS

Project Name: TROY (WATER STREET) PHASE 1A
Lab Number: L2247100
Project Number: TROY (WATER STREET)
Report Date: 09/07/22

SAMPLE RESULTS

Lab ID: L2247100-01
Client ID: TROY-CF-6
Sample Location: 8000 MAIN STREET, TROY, NY 12180

Date Collected: 08/30/22 14:15
Date Received: 08/30/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 09/07/22 08:37
Analyst: MEO
Percent Solids: 96%

Extraction Method: EPA 3546
Extraction Date: 09/06/22 19:44
Cleanup Method: EPA 3665A
Cleanup Date: 09/07/22
Cleanup Method: EPA 3660B
Cleanup Date: 09/07/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	1000	--	1	A
Aroclor 1221	ND		ug/kg	1000	--	1	A
Aroclor 1232	ND		ug/kg	1000	--	1	A
Aroclor 1242	ND		ug/kg	1000	--	1	A
Aroclor 1248	ND		ug/kg	1000	--	1	A
Aroclor 1254	ND		ug/kg	1000	--	1	A
Aroclor 1260	ND		ug/kg	1000	--	1	A
Aroclor 1262	ND		ug/kg	1000	--	1	A
Aroclor 1268	ND		ug/kg	1000	--	1	A
PCBs, Total	ND		ug/kg	1000	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	78		30-150	A
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	95		30-150	B

Project Name: TROY (WATER STREET) PHASE 1A
Project Number: TROY (WATER STREET)
Lab Number: L2247100
Report Date: 09/07/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 09/07/22 08:07
Analyst: MEO

Extraction Method: EPA 3546
Extraction Date: 09/06/22 19:44
Cleanup Method: EPA 3665A
Cleanup Date: 09/07/22
Cleanup Method: EPA 3660B
Cleanup Date: 09/07/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG1684139-1						
Aroclor 1016	ND		ug/kg	1000	--	A
Aroclor 1221	ND		ug/kg	1000	--	A
Aroclor 1232	ND		ug/kg	1000	--	A
Aroclor 1242	ND		ug/kg	1000	--	A
Aroclor 1248	ND		ug/kg	1000	--	A
Aroclor 1254	ND		ug/kg	1000	--	A
Aroclor 1260	ND		ug/kg	1000	--	A
Aroclor 1262	ND		ug/kg	1000	--	A
Aroclor 1268	ND		ug/kg	1000	--	A
PCBs, Total	ND		ug/kg	1000	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	76		30-150	A
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	91		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: TROY (WATER STREET) PHASE 1A

Project Number: TROY (WATER STREET)

Lab Number: L2247100

Report Date: 09/07/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 Batch: WG1684139-2 WG1684139-3									
Aroclor 1016	73		74		40-140	1		50	A
Aroclor 1260	74		74		40-140	0		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		66		30-150	A
Decachlorobiphenyl	76		75		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		79		30-150	B
Decachlorobiphenyl	91		91		30-150	B

PESTICIDES

Project Name: TROY (WATER STREET) PHASE 1A
Lab Number: L2247100
Project Number: TROY (WATER STREET)
Report Date: 09/07/22

SAMPLE RESULTS

Lab ID: L2247100-01
Client ID: TROY-CF-6
Sample Location: 8000 MAIN STREET, TROY, NY 12180

Date Collected: 08/30/22 14:15
Date Received: 08/30/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 09/06/22 17:21
Analyst: MMG
Percent Solids: 96%

Extraction Method: EPA 3546
Extraction Date: 09/05/22 18:03
Cleanup Method: EPA 3620B
Cleanup Date: 09/06/22
Cleanup Method: EPA 3660B
Cleanup Date: 09/06/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.60	--	1	A
Lindane	ND		ug/kg	0.667	--	1	A
Alpha-BHC	ND		ug/kg	0.667	--	1	A
Beta-BHC	ND		ug/kg	1.60	--	1	A
Heptachlor	ND		ug/kg	0.800	--	1	A
Aldrin	ND		ug/kg	1.60	--	1	A
Heptachlor epoxide	ND		ug/kg	3.00	--	1	A
Endrin	ND		ug/kg	0.667	--	1	A
Endrin aldehyde	ND		ug/kg	2.00	--	1	A
Endrin ketone	ND		ug/kg	1.60	--	1	A
Dieldrin	ND		ug/kg	1.00	--	1	A
4,4'-DDE	ND		ug/kg	1.60	--	1	A
4,4'-DDD	ND		ug/kg	1.60	--	1	A
4,4'-DDT	ND		ug/kg	1.60	--	1	A
Endosulfan I	ND		ug/kg	1.60	--	1	A
Endosulfan II	ND		ug/kg	1.60	--	1	A
Endosulfan sulfate	ND		ug/kg	0.667	--	1	A
Methoxychlor	ND		ug/kg	3.00	--	1	A
Toxaphene	ND		ug/kg	30.0	--	1	A
cis-Chlordane	ND		ug/kg	2.00	--	1	A
trans-Chlordane	ND		ug/kg	2.00	--	1	A
Chlordane	ND		ug/kg	13.3	--	1	A

Project Name: TROY (WATER STREET) PHASE 1A **Lab Number:** L2247100

Project Number: TROY (WATER STREET) **Report Date:** 09/07/22

SAMPLE RESULTS

Lab ID: L2247100-01 Date Collected: 08/30/22 14:15

Client ID: TROY-CF-6 Date Received: 08/30/22

Sample Location: 8000 MAIN STREET, TROY, NY 12180 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	104		30-150	A
Decachlorobiphenyl	110		30-150	A
2,4,5,6-Tetrachloro-m-xylene	97		30-150	B
Decachlorobiphenyl	112		30-150	B

Project Name: TROY (WATER STREET) PHASE 1A
Project Number: TROY (WATER STREET)
Lab Number: L2247100
Report Date: 09/07/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 09/06/22 12:51
Analyst: AR

Extraction Method: EPA 3546
Extraction Date: 09/05/22 18:02
Cleanup Method: EPA 3620B
Cleanup Date: 09/06/22
Cleanup Method: EPA 3660B
Cleanup Date: 09/06/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG1683693-1						
Delta-BHC	ND		ug/kg	1.56	--	A
Lindane	ND		ug/kg	0.651	--	A
Alpha-BHC	ND		ug/kg	0.651	--	A
Beta-BHC	ND		ug/kg	1.56	--	A
Heptachlor	ND		ug/kg	0.781	--	A
Aldrin	ND		ug/kg	1.56	--	A
Heptachlor epoxide	ND		ug/kg	2.93	--	A
Endrin	ND		ug/kg	0.651	--	A
Endrin aldehyde	ND		ug/kg	1.95	--	A
Endrin ketone	ND		ug/kg	1.56	--	A
Dieldrin	ND		ug/kg	0.976	--	A
4,4'-DDE	ND		ug/kg	1.56	--	A
4,4'-DDD	ND		ug/kg	1.56	--	A
4,4'-DDT	ND		ug/kg	1.56	--	A
Endosulfan I	ND		ug/kg	1.56	--	A
Endosulfan II	ND		ug/kg	1.56	--	A
Endosulfan sulfate	ND		ug/kg	0.651	--	A
Methoxychlor	ND		ug/kg	2.93	--	A
Toxaphene	ND		ug/kg	29.3	--	A
cis-Chlordane	ND		ug/kg	1.95	--	A
trans-Chlordane	ND		ug/kg	1.95	--	A
Chlordane	ND		ug/kg	13.0	--	A

Project Name: TROY (WATER STREET) PHASE 1A
Project Number: TROY (WATER STREET)
Lab Number: L2247100
Report Date: 09/07/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 09/06/22 12:51
Analyst: AR

Extraction Method: EPA 3546
Extraction Date: 09/05/22 18:02
Cleanup Method: EPA 3620B
Cleanup Date: 09/06/22
Cleanup Method: EPA 3660B
Cleanup Date: 09/06/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG1683693-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	102		30-150	A
Decachlorobiphenyl	130		30-150	A
2,4,5,6-Tetrachloro-m-xylene	96		30-150	B
Decachlorobiphenyl	122		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: TROY (WATER STREET) PHASE 1A

Project Number: TROY (WATER STREET)

Lab Number: L2247100

Report Date: 09/07/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1683693-2 WG1683693-3									
Delta-BHC	107		114		30-150	6		30	A
Lindane	91		96		30-150	5		30	A
Alpha-BHC	96		102		30-150	6		30	A
Beta-BHC	82		87		30-150	6		30	A
Heptachlor	96		102		30-150	6		30	A
Aldrin	97		101		30-150	4		30	A
Heptachlor epoxide	89		92		30-150	3		30	A
Endrin	96		102		30-150	6		30	A
Endrin aldehyde	78		80		30-150	3		30	A
Endrin ketone	100		106		30-150	6		30	A
Dieldrin	103		109		30-150	6		30	A
4,4'-DDE	103		106		30-150	3		30	A
4,4'-DDD	106		114		30-150	7		30	A
4,4'-DDT	105		115		30-150	9		30	A
Endosulfan I	96		98		30-150	2		30	A
Endosulfan II	94		102		30-150	8		30	A
Endosulfan sulfate	87		93		30-150	7		30	A
Methoxychlor	101		106		30-150	5		30	A
cis-Chlordane	104		107		30-150	3		30	A
trans-Chlordane	114		124		30-150	8		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: TROY (WATER STREET) PHASE 1A

Project Number: TROY (WATER STREET)

Lab Number: L2247100

Report Date: 09/07/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1683693-2 WG1683693-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	97		97		30-150	A
Decachlorobiphenyl	125		130		30-150	A
2,4,5,6-Tetrachloro-m-xylene	101		100		30-150	B
Decachlorobiphenyl	134		132		30-150	B

METALS

Project Name: TROY (WATER STREET) PHASE 1A
Lab Number: L2247100
Project Number: TROY (WATER STREET)
Report Date: 09/07/22

SAMPLE RESULTS

Lab ID: L2247100-01
Client ID: TROY-CF-6
Sample Location: 8000 MAIN STREET, TROY, NY 12180
Date Collected: 08/30/22 14:15
Date Received: 08/30/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 96%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3580		mg/kg	8.14	--	2	08/31/22 20:30	09/07/22 12:33	EPA 3050B	1,6010D	NB
Antimony, Total	ND		mg/kg	4.07	--	2	08/31/22 20:30	09/07/22 12:33	EPA 3050B	1,6010D	NB
Arsenic, Total	3.55		mg/kg	0.814	--	2	08/31/22 20:30	09/07/22 12:33	EPA 3050B	1,6010D	NB
Barium, Total	16.7		mg/kg	0.814	--	2	08/31/22 20:30	09/07/22 12:33	EPA 3050B	1,6010D	NB
Beryllium, Total	ND		mg/kg	0.407	--	2	08/31/22 20:30	09/07/22 12:33	EPA 3050B	1,6010D	NB
Cadmium, Total	ND		mg/kg	0.814	--	2	08/31/22 20:30	09/07/22 12:33	EPA 3050B	1,6010D	NB
Calcium, Total	27100		mg/kg	8.14	--	2	08/31/22 20:30	09/07/22 12:33	EPA 3050B	1,6010D	NB
Chromium, Total	5.80		mg/kg	0.814	--	2	08/31/22 20:30	09/07/22 12:33	EPA 3050B	1,6010D	NB
Cobalt, Total	4.60		mg/kg	1.63	--	2	08/31/22 20:30	09/07/22 12:33	EPA 3050B	1,6010D	NB
Copper, Total	12.5		mg/kg	0.814	--	2	08/31/22 20:30	09/07/22 12:33	EPA 3050B	1,6010D	NB
Iron, Total	11100		mg/kg	4.07	--	2	08/31/22 20:30	09/07/22 12:33	EPA 3050B	1,6010D	NB
Lead, Total	4.89		mg/kg	4.07	--	2	08/31/22 20:30	09/07/22 12:33	EPA 3050B	1,6010D	NB
Magnesium, Total	7600		mg/kg	8.14	--	2	08/31/22 20:30	09/07/22 12:33	EPA 3050B	1,6010D	NB
Manganese, Total	213		mg/kg	0.814	--	2	08/31/22 20:30	09/07/22 12:33	EPA 3050B	1,6010D	NB
Mercury, Total	ND		mg/kg	0.072	--	1	08/31/22 21:21	09/01/22 08:55	EPA 7471B	1,7471B	DMB
Nickel, Total	9.31		mg/kg	2.04	--	2	08/31/22 20:30	09/07/22 12:33	EPA 3050B	1,6010D	NB
Potassium, Total	252		mg/kg	204	--	2	08/31/22 20:30	09/07/22 12:33	EPA 3050B	1,6010D	NB
Selenium, Total	ND		mg/kg	1.63	--	2	08/31/22 20:30	09/07/22 12:33	EPA 3050B	1,6010D	NB
Silver, Total	ND		mg/kg	0.814	--	2	08/31/22 20:30	09/07/22 12:33	EPA 3050B	1,6010D	NB
Sodium, Total	ND		mg/kg	163	--	2	08/31/22 20:30	09/07/22 12:33	EPA 3050B	1,6010D	NB
Thallium, Total	ND		mg/kg	1.63	--	2	08/31/22 20:30	09/07/22 12:33	EPA 3050B	1,6010D	NB
Vanadium, Total	9.09		mg/kg	0.814	--	2	08/31/22 20:30	09/07/22 12:33	EPA 3050B	1,6010D	NB
Zinc, Total	27.6		mg/kg	4.07	--	2	08/31/22 20:30	09/07/22 12:33	EPA 3050B	1,6010D	NB

Project Name: TROY (WATER STREET) PHASE 1A **Lab Number:** L2247100

Project Number: TROY (WATER STREET) **Report Date:** 09/07/22

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1682060-1										
Aluminum, Total	ND		mg/kg	4.00	--	1	08/31/22 20:30	09/07/22 12:19	1,6010D	NB
Antimony, Total	ND		mg/kg	2.00	--	1	08/31/22 20:30	09/07/22 12:19	1,6010D	NB
Arsenic, Total	ND		mg/kg	0.400	--	1	08/31/22 20:30	09/07/22 12:19	1,6010D	NB
Barium, Total	ND		mg/kg	0.400	--	1	08/31/22 20:30	09/07/22 12:19	1,6010D	NB
Beryllium, Total	ND		mg/kg	0.200	--	1	08/31/22 20:30	09/07/22 12:19	1,6010D	NB
Cadmium, Total	ND		mg/kg	0.400	--	1	08/31/22 20:30	09/07/22 12:19	1,6010D	NB
Calcium, Total	ND		mg/kg	4.00	--	1	08/31/22 20:30	09/07/22 12:19	1,6010D	NB
Chromium, Total	ND		mg/kg	0.400	--	1	08/31/22 20:30	09/07/22 12:19	1,6010D	NB
Cobalt, Total	ND		mg/kg	0.800	--	1	08/31/22 20:30	09/07/22 12:19	1,6010D	NB
Copper, Total	ND		mg/kg	0.400	--	1	08/31/22 20:30	09/07/22 12:19	1,6010D	NB
Iron, Total	ND		mg/kg	2.00	--	1	08/31/22 20:30	09/07/22 12:19	1,6010D	NB
Lead, Total	ND		mg/kg	2.00	--	1	08/31/22 20:30	09/07/22 12:19	1,6010D	NB
Magnesium, Total	ND		mg/kg	4.00	--	1	08/31/22 20:30	09/07/22 12:19	1,6010D	NB
Manganese, Total	ND		mg/kg	0.400	--	1	08/31/22 20:30	09/07/22 12:19	1,6010D	NB
Nickel, Total	ND		mg/kg	1.00	--	1	08/31/22 20:30	09/07/22 12:19	1,6010D	NB
Potassium, Total	ND		mg/kg	100	--	1	08/31/22 20:30	09/07/22 12:19	1,6010D	NB
Selenium, Total	ND		mg/kg	0.800	--	1	08/31/22 20:30	09/07/22 12:19	1,6010D	NB
Silver, Total	ND		mg/kg	0.400	--	1	08/31/22 20:30	09/07/22 12:19	1,6010D	NB
Sodium, Total	ND		mg/kg	80.0	--	1	08/31/22 20:30	09/07/22 12:19	1,6010D	NB
Thallium, Total	ND		mg/kg	0.800	--	1	08/31/22 20:30	09/07/22 12:19	1,6010D	NB
Vanadium, Total	ND		mg/kg	0.400	--	1	08/31/22 20:30	09/07/22 12:19	1,6010D	NB
Zinc, Total	ND		mg/kg	2.00	--	1	08/31/22 20:30	09/07/22 12:19	1,6010D	NB

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1682063-1										
Mercury, Total	ND		mg/kg	0.083	--	1	08/31/22 21:21	09/01/22 08:49	1,7471B	DMB

Project Name: TROY (WATER STREET) PHASE 1A
Project Number: TROY (WATER STREET)
Lab Number: L2247100
Report Date: 09/07/22

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: TROY (WATER STREET) PHASE 1A

Project Number: TROY (WATER STREET)

Lab Number: L2247100

Report Date: 09/07/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1682060-2 SRM Lot Number: D113-540								
Aluminum, Total	78		-		51-149	-		
Antimony, Total	122		-		20-250	-		
Arsenic, Total	98		-		70-130	-		
Barium, Total	91		-		75-125	-		
Beryllium, Total	85		-		75-125	-		
Cadmium, Total	89		-		75-125	-		
Calcium, Total	94		-		73-128	-		
Chromium, Total	96		-		70-130	-		
Cobalt, Total	95		-		75-125	-		
Copper, Total	95		-		75-125	-		
Iron, Total	113		-		36-164	-		
Lead, Total	93		-		72-128	-		
Magnesium, Total	87		-		63-138	-		
Manganese, Total	93		-		77-123	-		
Nickel, Total	92		-		70-130	-		
Potassium, Total	88		-		59-141	-		
Selenium, Total	94		-		66-134	-		
Silver, Total	97		-		70-131	-		
Sodium, Total	90		-		35-164	-		
Thallium, Total	88		-		70-130	-		
Vanadium, Total	97		-		74-126	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: TROY (WATER STREET) PHASE 1A

Project Number: TROY (WATER STREET)

Lab Number: L2247100

Report Date: 09/07/22

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1682060-2 SRM Lot Number: D113-540					
Zinc, Total	92	-	70-130	-	
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1682063-2 SRM Lot Number: D113-540					
Mercury, Total	104	-	60-140	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: TROY (WATER STREET) PHASE 1A
Project Number: TROY (WATER STREET)

Lab Number: L2247100
Report Date: 09/07/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1682060-3 QC Sample: L2242860-06 Client ID: MS Sample												
Aluminum, Total	7590	198	7720	**65**	Q	-	-		75-125	-		20
Antimony, Total	4.74	49.6	27.8	**46**	Q	-	-		75-125	-		20
Arsenic, Total	21.8	11.9	34.3	105		-	-		75-125	-		20
Barium, Total	111	198	314	102		-	-		75-125	-		20
Beryllium, Total	0.380	4.96	3.77	**68**	Q	-	-		75-125	-		20
Cadmium, Total	9.98	5.26	13.6	**69**	Q	-	-		75-125	-		20
Calcium, Total	21000	993	23500	**252**	Q	-	-		75-125	-		20
Chromium, Total	162	19.8	275	**569**	Q	-	-		75-125	-		20
Cobalt, Total	13.8	49.6	45.1	**63**	Q	-	-		75-125	-		20
Copper, Total	619	24.8	625	**24**	Q	-	-		75-125	-		20
Iron, Total	69800	99.3	75300	**5540**	Q	-	-		75-125	-		20
Lead, Total	373	52.6	666	**557**	Q	-	-		75-125	-		20
Magnesium, Total	4700	993	4400	**0**	Q	-	-		75-125	-		20
Manganese, Total	1360	49.6	2350	**1990**	Q	-	-		75-125	-		20
Nickel, Total	150	49.6	210	121		-	-		75-125	-		20
Potassium, Total	527	993	1370	85		-	-		75-125	-		20
Selenium, Total	ND	11.9	8.56	**72**	Q	-	-		75-125	-		20
Silver, Total	0.676	29.8	25.2	82		-	-		75-125	-		20
Sodium, Total	190	993	1030	84		-	-		75-125	-		20
Thallium, Total	ND	11.9	2.20	**18**	Q	-	-		75-125	-		20
Vanadium, Total	34.6	49.6	76.3	84		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: TROY (WATER STREET) PHASE 1A
Project Number: TROY (WATER STREET)

Lab Number: L2247100
Report Date: 09/07/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1682060-3 QC Sample: L2242860-06 Client ID: MS Sample										
Zinc, Total	1070	49.6	1340	**544**	Q	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1682063-3 QC Sample: L2247100-01 Client ID: TROY-CF-6										
Mercury, Total	ND	1.47	1.55	106		-	-	80-120	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: TROY (WATER STREET) PHASE 1A
Project Number: TROY (WATER STREET)

Lab Number: L2247100
Report Date: 09/07/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1682060-4 QC Sample: L2242860-06 Client ID: DUP Sample						
Arsenic, Total	21.8	38.0	mg/kg	**54**	Q	20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1682063-4 QC Sample: L2247100-01 Client ID: TROY-CF-6						
Mercury, Total	ND	ND	mg/kg	NC		20

Project Name: TROY (WATER STREET) PHASE 1A
Project Number: TROY (WATER STF

Lab Serial Dilution Analysis
Batch Quality Control

Lab Number: L2247100
Report Date: 09/07/22

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1682060-6 QC Sample: L2242860-06 Client ID: DUP Sample						
Arsenic, Total	21.8	29.0	mg/kg	**33**	Q	20

INORGANICS
&
MISCELLANEOUS

Project Name: TROY (WATER STREET) PHASE 1A
Project Number: TROY (WATER STREET)
Lab Number: L2247100
Report Date: 09/07/22

SAMPLE RESULTS

Lab ID: L2247100-01
Client ID: TROY-CF-6
Sample Location: 8000 MAIN STREET, TROY, NY 12180
Sample Depth:
Matrix: Soil
Date Collected: 08/30/22 14:15
Date Received: 08/30/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	95.7		%	0.100	NA	1	-	08/31/22 13:01	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	--	1	08/31/22 20:20	09/01/22 08:40	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	0.836	--	1	09/06/22 18:00	09/06/22 21:20	1,7196A	WT

Project Name: TROY (WATER STREET) PHASE 1A
Project Number: TROY (WATER STREET)
Lab Number: L2247100
Report Date: 09/07/22

SAMPLE RESULTS

Lab ID: L2247100-02
Client ID: TROY-CF-6A
Sample Location: 8000 MAIN STREET, TROY, NY 12180
Sample Depth:
Matrix: Soil

Date Collected: 08/30/22 14:30
Date Received: 08/30/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	95.3		%	0.100	NA	1	-	08/31/22 13:01	121,2540G	RI

Project Name: TROY (WATER STREET) PHASE 1A
Project Number: TROY (WATER STREET)
Lab Number: L2247100
Report Date: 09/07/22

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1682049-1										
Cyanide, Total	ND		mg/kg	0.92	--	1	08/31/22 20:20	09/01/22 08:23	1,9010C/9012B	CS
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1684106-1										
Chromium, Hexavalent	ND		mg/kg	0.800	--	1	09/06/22 18:00	09/06/22 21:20	1,7196A	WT

Lab Control Sample Analysis

Batch Quality Control

Project Name: TROY (WATER STREET) PHASE 1A

Project Number: TROY (WATER STREET)

Lab Number: L2247100

Report Date: 09/07/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1682049-2 WG1682049-3								
Cyanide, Total	80		**70**	Q	80-120	22		35
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1684106-2								
Chromium, Hexavalent	108		-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: TROY (WATER STREET) PHASE 1A
Project Number: TROY (WATER STREET)

Lab Number: L2247100
Report Date: 09/07/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1682049-4 WG1682049-5 QC Sample: L2247013-01 Client ID: MS Sample												
Cyanide, Total	ND	11	11	97		10	90		75-125	10		35
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1684106-4 QC Sample: L2247100-01 Client ID: TROY-CF-6												
Chromium, Hexavalent	ND	1360	1380	101		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: TROY (WATER STREET) PHASE 1A

Project Number: TROY (WATER STREET)

Lab Number: L2247100

Report Date: 09/07/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1681961-1 QC Sample: L2246437-21 Client ID: DUP Sample						
Solids, Total	90.5	89.6	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1684106-6 QC Sample: L2247100-01 Client ID: TROY-CF-6						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: TROY (WATER STREET) PHASE 1A
Project Number: TROY (WATER STREET)

Lab Number: L2247100
Report Date: 09/07/22

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2247100-01A	Vial MeOH preserved	A	NA		2.8	Y	Absent		NYTCL-8260HLW-R2(14)
L2247100-01B	Vial water preserved	A	NA		2.8	Y	Absent	31-AUG-22 11:13	NYTCL-8260HLW-R2(14)
L2247100-01C	Vial water preserved	A	NA		2.8	Y	Absent	31-AUG-22 11:13	NYTCL-8260HLW-R2(14)
L2247100-01D	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L2247100-01E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.8	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),TL-TI(180),NI-TI(180),AL-TI(180),CU-TI(180),SB-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),V-TI(180),CO-TI(180),HG-T(28),FE-TI(180),MG-TI(180),MN-TI(180),K-TI(180),NA-TI(180),CD-TI(180),CA-TI(180)
L2247100-01F	Glass 120ml/4oz unpreserved	A	NA		2.8	Y	Absent		TCN-9010(14),NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2247100-01G	Glass 500ml/16oz unpreserved	A	NA		2.8	Y	Absent		TCN-9010(14),NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2247100-02A	Vial MeOH preserved	A	NA		2.8	Y	Absent		NYTCL-8260HLW-R2(14)
L2247100-02B	Vial water preserved	A	NA		2.8	Y	Absent	31-AUG-22 11:13	NYTCL-8260HLW-R2(14)
L2247100-02C	Vial water preserved	A	NA		2.8	Y	Absent	31-AUG-22 11:13	NYTCL-8260HLW-R2(14)
L2247100-02D	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name:	TROY (WATER STREET) PHASE 1A	**Lab Number:**	L2247100
Project Number:	TROY (WATER STREET)	**Report Date:**	09/07/22

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report

Project Name:	TROY (WATER STREET) PHASE 1A	**Lab Number:**	L2247100
Project Number:	TROY (WATER STREET)	**Report Date:**	09/07/22

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report

Project Name:	TROY (WATER STREET) PHASE 1A	**Lab Number:**	L2247100
Project Number:	TROY (WATER STREET)	**Report Date:**	09/07/22

Data Qualifiers

ND - Not detected at the reporting limit (RL) for the sample.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: Data Usability Report

Project Name:	TROY (WATER STREET) PHASE 1A	**Lab Number:**	L2247100
Project Number:	TROY (WATER STREET)	**Report Date:**	09/07/22

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 8/31/22

ALPHA Job #: L2247100

Client Information

Client: LAND Remediation
Address: 74 Hudson River Road,
Waterford, NY 12188
Phone: 203.233.4100
Fax:
Email: jlb@land-remediation.com

Project Information

Project Name: Troy (Water St.) Phase 1A Remediation
Project Location: 8000 Main Street, Troy, Ny 12180
Project #
(Use Project name as Project #) ☑
Project Manager: Jonathan Borrelli
ALPHAQuote #:

Turn-Around Time

☐ Standard — Due Date:
☐ Rush (only if pre approved) — # of Days: 5 Day

Deliverables

☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information

☐ Same as Client Info
PO #

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☑ NY
☐ Other:

☐ These samples have been previously analyzed by Alpha

Other project specific requirements/comments:
ONLY REPORT MAXIMUM TCL PCBs QUANTITY TO 1 PPM.

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Total Cyanide 9010C	Chromium (+6) 7199	TCL Pesticides 8081	TCL PCBs 8082 / Hg-7471B	NYTCL SVOCs 8270D	TCL VOCs 5035A 8260	TAL Metals		Sample Specific Comments	Total Bottle
47100 -01	Troy - CF - 6	8/30/2022	14:15	Sand	JC	X	X	X	X	X	X	X		DER10	
-02	Troy - CF - 6A	8/30/2022	14:30	Sand	JC						X			DER10	
Container Type						G	G	G	G	G	V	G			
Preservative															

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
Jon Castle	8/30/22	Secured Storage	8/30/22
Secured Storage	8/30/22 21:35		8/30/22 21:35
	8/30/22 21:33	Wendy Morony	8/31/22 00:15

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.

Form No: 01-25 (rev. 30-Sept-2013)

Attachment 4a - PFAS and 1,4-Dioxane Analytical Results

eurofins | Environment Testing America



ANALYTICAL REPORT

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-96269-1
Client Project/Site: Troy NY Water 1,4 Dioxane

For:
Brown and Caldwell
500 North Franklin Turnpike
Suite 306
Ramsey, New Jersey 07446

Attn: Mr. James L Marolda

Barb Weyandt

Authorized for release by:
9/15/2022 12:22:49 AM

Barbara Weyandt, Project Manager
(717)556-7264
Barbara.Weyandt@et.eurofinsus.com

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

LINKS

Review your project results through my EOL

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied, except as otherwise agreed. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. Except as otherwise agreed, no purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Barb Weyandt

Barbara Weyandt
Project Manager
9/15/2022 12:22:49 AM

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Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Brown and Caldwell
Job ID: 410-96269-1
Project/Site: Troy NY Water 1,4 Dioxane

Job ID: 410-96269-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Narrative

Job Narrative
410-96269-1

Receipt
The samples were received on 8/31/2022 10:25 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.5°C

GC/MS Semi VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Brown and Caldwell
Job ID: 410-96269-1
Project/Site: Troy NY Water 1,4 Dioxane

Client Sample ID: FB-20220830
Lab Sample ID: 410-96269-1

No Detections.

Client Sample ID: Import-6-20220830
Lab Sample ID: 410-96269-2

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: FB-20220830
Lab Sample ID: 410-96269-1

Date Collected: 08/30/22 14:33
Matrix: Water
Date Received: 08/31/22 10:25

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.31	0.10	ug/L		09/03/22 10:17	09/06/22 13:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*89*		*10 - 110*	*09/03/22 10:17*	*09/06/22 13:35*	*1*
Fluoranthene-d10 (Surr)	*83*		*47 - 128*	*09/03/22 10:17*	*09/06/22 13:35*	*1*
1-Methylnaphthalene-d10 (Surr)	*77*		*36 - 111*	*09/03/22 10:17*	*09/06/22 13:35*	*1*

Client Sample ID: Import-6-20220830
Lab Sample ID: 410-96269-2

Date Collected: 08/30/22 14:20
Matrix: Solid
Date Received: 08/31/22 10:25
Percent Solids: 95.5

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		3.1	1.4	ug/Kg	☼	09/13/22 18:30	09/14/22 17:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*83*		*19 - 133*	*09/13/22 18:30*	*09/14/22 17:49*	*1*
Fluoranthene-d10 (Surr)	*77*		*22 - 152*	*09/13/22 18:30*	*09/14/22 17:49*	*1*
1-Methylnaphthalene-d10 (Surr)	*76*		*26 - 123*	*09/13/22 18:30*	*09/14/22 17:49*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**4.5**		1.0	1.0	%			09/02/22 13:12	1
Percent Solids	**95.5**		1.0	1.0	%			09/02/22 13:12	1

Surrogate Summary

Client: Brown and Caldwell
Job ID: 410-96269-1
Project/Site: Troy NY Water 1,4 Dioxane

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BAPd12	FLN10	MNPd10
Lab Sample ID	Client Sample ID	(19-133)	(22-152)	(26-123)
410-96269-2	Import-6-20220830	83	77	76
LCS 410-295384/2-A	Lab Control Sample	94	79	84
MB 410-295384/1-A	Method Blank	83	73	73

Surrogate Legend

BAPd12 = Benzo(a)pyrene-d12 (Surr)
FLN10 = Fluoranthene-d10 (Surr)
MNPd10 = 1-Methylnaphthalene-d10 (Surr)

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BAPd12	FLN10	MNPd10
Lab Sample ID	Client Sample ID	(10-110)	(47-128)	(36-111)
410-96269-1	FB-20220830	89	83	77
LCS 410-292631/2-A	Lab Control Sample	98	84	82
MB 410-292631/1-A	Method Blank	97	88	79

Surrogate Legend

BAPd12 = Benzo(a)pyrene-d12 (Surr)
FLN10 = Fluoranthene-d10 (Surr)
MNPd10 = 1-Methylnaphthalene-d10 (Surr)

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 410-292631/1-A
Matrix: Water
Analysis Batch: 292808

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 292631

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.30	0.10	ug/L		09/03/22 10:17	09/06/22 07:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*97*		*10 - 110*	*09/03/22 10:17*	*09/06/22 07:48*	*1*
Fluoranthene-d10 (Surr)	*88*		*47 - 128*	*09/03/22 10:17*	*09/06/22 07:48*	*1*
1-Methylnaphthalene-d10 (Surr)	*79*		*36 - 111*	*09/03/22 10:17*	*09/06/22 07:48*	*1*

Lab Sample ID: LCS 410-292631/2-A
Matrix: Water
Analysis Batch: 292808

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 292631

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	1.00	0.401		ug/L		40	23 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Benzo(a)pyrene-d12 (Surr)	*98*		*10 - 110*
Fluoranthene-d10 (Surr)	*84*		*47 - 128*
1-Methylnaphthalene-d10 (Surr)	*82*		*36 - 111*

Lab Sample ID: MB 410-295384/1-A
Matrix: Solid
Analysis Batch: 295923

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 295384

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		3.0	1.3	ug/Kg		09/13/22 18:30	09/14/22 17:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*83*		*19 - 133*	*09/13/22 18:30*	*09/14/22 17:02*	*1*
Fluoranthene-d10 (Surr)	*73*		*22 - 152*	*09/13/22 18:30*	*09/14/22 17:02*	*1*
1-Methylnaphthalene-d10 (Surr)	*73*		*26 - 123*	*09/13/22 18:30*	*09/14/22 17:02*	*1*

Lab Sample ID: LCS 410-295384/2-A
Matrix: Solid
Analysis Batch: 295923

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 295384

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	33.3	14.9		ug/Kg		45	15 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Benzo(a)pyrene-d12 (Surr)	*94*		*19 - 133*
Fluoranthene-d10 (Surr)	*79*		*22 - 152*
1-Methylnaphthalene-d10 (Surr)	*84*		*26 - 123*

QC Association Summary

Client: Brown and Caldwell
Project/Site: Troy NY Water 1,4 Dioxane

Job ID: 410-96269-1

GC/MS Semi VOA

Prep Batch: 292631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-96269-1	FB-20220830	Total/NA	Water	3510C	
MB 410-292631/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-292631/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 292808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-96269-1	FB-20220830	Total/NA	Water	8270E SIM	292631
MB 410-292631/1-A	Method Blank	Total/NA	Water	8270E SIM	292631
LCS 410-292631/2-A	Lab Control Sample	Total/NA	Water	8270E SIM	292631

Prep Batch: 295384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-96269-2	Import-6-20220830	Total/NA	Solid	3546	
MB 410-295384/1-A	Method Blank	Total/NA	Solid	3546	
LCS 410-295384/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 295923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-96269-2	Import-6-20220830	Total/NA	Solid	8270E SIM	295384
MB 410-295384/1-A	Method Blank	Total/NA	Solid	8270E SIM	295384
LCS 410-295384/2-A	Lab Control Sample	Total/NA	Solid	8270E SIM	295384

General Chemistry

Analysis Batch: 292456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-96269-2	Import-6-20220830	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Brown and Caldwell
Job ID: 410-96269-1
Project/Site: Troy NY Water 1,4 Dioxane

Client Sample ID: FB-20220830
Lab Sample ID: 410-96269-1
Date Collected: 08/30/22 14:33
Matrix: Water
Date Received: 08/31/22 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			292631	QJZ6	ELLE	09/03/22 10:17
Total/NA	Analysis	8270E SIM		1	292808	SJ89	ELLE	09/06/22 13:35

Client Sample ID: Import-6-20220830
Lab Sample ID: 410-96269-2
Date Collected: 08/30/22 14:20
Matrix: Solid
Date Received: 08/31/22 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	292456	UVJN	ELLE	09/02/22 13:12

Client Sample ID: Import-6-20220830
Lab Sample ID: 410-96269-2
Date Collected: 08/30/22 14:20
Matrix: Solid
Date Received: 08/31/22 10:25
Percent Solids: 95.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			295384	MD4W	ELLE	09/13/22 18:30
Total/NA	Analysis	8270E SIM		1	295923	SJ89	ELLE	09/14/22 17:49

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Brown and Caldwell
Job ID: 410-96269-1
Project/Site: Troy NY Water 1,4 Dioxane

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10670	04-01-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

Client: Brown and Caldwell
Job ID: 410-96269-1
Project/Site: Troy NY Water 1,4 Dioxane

Method	Method Description	Protocol	Laboratory
8270E SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	ELLE
Moisture	Percent Moisture	EPA	ELLE
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	ELLE
3546	Microwave Extraction	SW846	ELLE

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Brown and Caldwell
Job ID: 410-96269-1
Project/Site: Troy NY Water 1,4 Dioxane

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-96269-1	FB-20220830	Water	08/30/22 14:33	08/31/22 10:25
410-96269-2	Import-6-20220830	Solid	08/30/22 14:20	08/31/22 10:25

Eurofins Lancaster Laboratories Environme
2425 New Holland Pike
Lancaster, PA 17601
Phone: 717-656-2300 Fax: 717-656-2681

Chain of Custody Record

410-96269 Chain of Custody

eurofins Environment Testing America

Client Information	Sampler: Brian Taylor	Lab PM: Weyandt, Barbara A	C No: -64182-13963.1
Client Contact: Mr. ~~James Marolda~~ Adam Sherman	Phone: 518-560-5967	E-Mail: Barbara.Weyandt@et	Page 1 of 1
Company: Brown and Caldwell	PWSID:	Analysis Requested	Job #:
Address: 500 North Franklin Turnpike Suite 306	Due Date Requested:		Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
City: Ramsey	TAT Requested (days): STANDARD		
State, Zip: NJ, 07446	Compliance Project: Δ Yes Δ No		
Phone: ~~201-574-4713(Tel)~~ 518-560-5911	PO #: 152167.205		Other:
Email: jmarolda@brwncald.com ASherman	WO #:		
Project Name: Troy NY Water 1,4-Dioxane	Project #: 41003608		
Site:	SSOW#:		

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	8270D_SIM, Moisture	8270D_SIM - 1,4-Dioxane	Total Number of containers	Special Instructions/Note:
			Preservation Code:		N	N			
FB-20220830	8/30/22	1433	G	W			X		
Import-6-20220830	8/30/22	1420	C	S		X	X		

8/30/22

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Lan T. Hunt	8-26-22 0854	ELLE			
2		8/30/22 1530	BC			
3				Debra A. Byam	8-31-22 10:25	ELLE

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Brown and Caldwell

Job Number: 410-96269-1

Login Number: 96269
List Number: 1
Creator: Hartlove, Katie M

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

eurofins | Environment Testing America



ANALYTICAL REPORT

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-96265-1
Client Project/Site: Troy NY Water PFAS

For:
Brown and Caldwell
500 North Franklin Turnpike
Suite 306
Ramsey, New Jersey 07446

Attn: Mr. James L Marolda

Barb Weyandt

Authorized for release by:
9/20/2022 9:53:38 AM

Barbara Weyandt, Project Manager
(717)556-7264
Barbara.Weyandt@et.eurofinsus.com

LINKS

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www.eurofinsus.com/Env

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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Barb Weyandt

Barbara Weyandt
Project Manager
9/20/2022 9:53:38 AM

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Definitions/Glossary

Client: Brown and Caldwell
Project/Site: Troy NY Water PFAS

Job ID: 410-96265-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*5+	Isotope dilution analyte is outside acceptance limits, high biased.
cn	Refer to Case Narrative for further detail

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Brown and Caldwell
Project/Site: Troy NY Water PFAS

Job ID: 410-96265-1

Job ID: 410-96265-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Narrative

Job Narrative
410-96265-1

Receipt
The samples were received on 8/31/2022 10:27 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.0°C

LCMS
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

PFAS
Method PFC_IDA: The recovery for the labeled isotope(s): 13C9 PFNA, 13C8 PFOS and d3-NMeFOSAA in the following sample: FB-20220830 (410-96265-1) is outside the QC acceptance limits. Since the recoveries are high and the native analytes are not detected in the sample, the data is reported.

Method PFC_IDA: The recoveries for the labeled isotope(s): 13C9 PFNA, 13C8 PFOS and d3-NMeFOSAA in the following sample: FB-20220830 (410-96265-1) are outside the QC acceptance limits. Since the recoveries are high and the native analytes are not detected in the sample, the data is reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Brown and Caldwell
Project/Site: Troy NY Water PFAS

Job ID: 410-96265-1

Client Sample ID: FB-20220830 — Lab Sample ID: 410-96265-1

No Detections.

Client Sample ID: Import-6-20220830 — Lab Sample ID: 410-96265-2

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: FB-20220830

Lab Sample ID: 410-96265-1

Date Collected: 08/30/22 14:30

Matrix: Water

Date Received: 08/31/22 10:27

Method: 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		1.7	0.44	ng/L		09/12/22 16:43	09/14/22 00:34	1
Perfluoroheptanoic acid	ND		1.7	0.44	ng/L		09/12/22 16:43	09/14/22 00:34	1
Perfluorooctanoic acid	ND		1.7	0.44	ng/L		09/12/22 16:43	09/14/22 00:34	1
Perfluorononanoic acid	ND		1.7	0.44	ng/L		09/12/22 16:43	09/14/22 00:34	1
Perfluorodecanoic acid	ND		1.7	0.44	ng/L		09/12/22 16:43	09/14/22 00:34	1
Perfluorotridecanoic acid	ND		1.7	0.44	ng/L		09/12/22 16:43	09/14/22 00:34	1
Perfluorotetradecanoic acid	ND		1.7	0.44	ng/L		09/12/22 16:43	09/14/22 00:34	1
Perfluorobutanesulfonic acid	ND		1.7	0.44	ng/L		09/12/22 16:43	09/14/22 00:34	1
Perfluorohexanesulfonic acid	ND		1.7	0.44	ng/L		09/12/22 16:43	09/14/22 00:34	1
Perfluorooctanesulfonic acid	ND		1.7	0.44	ng/L		09/12/22 16:43	09/14/22 00:34	1
NEtFOSAA	ND		2.6	0.44	ng/L		09/12/22 16:43	09/14/22 00:34	1
NMeFOSAA	ND		1.7	0.52	ng/L		09/12/22 16:43	09/14/22 00:34	1
Perfluoroheptanesulfonic acid	ND		1.7	0.44	ng/L		09/12/22 16:43	09/14/22 00:34	1
Perfluorodecanesulfonic acid	ND		1.7	0.44	ng/L		09/12/22 16:43	09/14/22 00:34	1
Perfluorooctanesulfonamide	ND		1.7	0.44	ng/L		09/12/22 16:43	09/14/22 00:34	1
Perfluorobutanoic acid	ND		4.4	1.7	ng/L		09/12/22 16:43	09/14/22 00:34	1
Perfluoroundecanoic acid	ND		1.7	0.44	ng/L		09/12/22 16:43	09/14/22 00:34	1
Perfluorododecanoic acid	ND		1.7	0.44	ng/L		09/12/22 16:43	09/14/22 00:34	1
6:2 Fluorotelomer sulfonic acid	ND		4.4	3.7	ng/L		09/12/22 16:43	09/14/22 00:34	1
8:2 Fluorotelomer sulfonic acid	ND		2.6	0.87	ng/L		09/12/22 16:43	09/14/22 00:34	1
Perfluoropentanoic acid	ND		1.7	0.44	ng/L		09/12/22 16:43	09/14/22 00:34	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-8:2 FTS	*175*		*33 - 200*	*09/12/22 16:43*	*09/14/22 00:34*	*1*
M2-6:2 FTS	*175*		*17 - 200*	*09/12/22 16:43*	*09/14/22 00:34*	*1*
13C5 PFHxA	*158*		*24 - 179*	*09/12/22 16:43*	*09/14/22 00:34*	*1*
13C4 PFHpA	*151*		*31 - 182*	*09/12/22 16:43*	*09/14/22 00:34*	*1*
13C8 PFOA	*152*		*48 - 162*	*09/12/22 16:43*	*09/14/22 00:34*	*1*
13C9 PFNA	*178*	**5+ cn*	*51 - 167*	*09/12/22 16:43*	*09/14/22 00:34*	*1*
13C6 PFDA	*149*		*49 - 163*	*09/12/22 16:43*	*09/14/22 00:34*	*1*
13C7 PFUnA	*120*		*34 - 174*	*09/12/22 16:43*	*09/14/22 00:34*	*1*
13C2-PFDoDA	*75*		*17 - 176*	*09/12/22 16:43*	*09/14/22 00:34*	*1*
13C2 PFTeDA	*148*		*10 - 179*	*09/12/22 16:43*	*09/14/22 00:34*	*1*
13C3 PFBS	*154*		*16 - 200*	*09/12/22 16:43*	*09/14/22 00:34*	*1*
13C3 PFHxS	*161*		*28 - 188*	*09/12/22 16:43*	*09/14/22 00:34*	*1*
13C8 PFOS	*170*	**5+ cn*	*51 - 159*	*09/12/22 16:43*	*09/14/22 00:34*	*1*
d3-NMeFOSAA	*175*	**5+ cn*	*31 - 174*	*09/12/22 16:43*	*09/14/22 00:34*	*1*
d5-NEtFOSAA	*113*		*29 - 195*	*09/12/22 16:43*	*09/14/22 00:34*	*1*
13C8 FOSA	*133*		*10 - 168*	*09/12/22 16:43*	*09/14/22 00:34*	*1*
13C4 PFBA	*157*		*42 - 165*	*09/12/22 16:43*	*09/14/22 00:34*	*1*
13C5 PFPeA	*151*		*38 - 187*	*09/12/22 16:43*	*09/14/22 00:34*	*1*

Client Sample ID: Import-6-20220830

Lab Sample ID: 410-96265-2

Date Collected: 08/30/22 14:25

Matrix: Solid

Date Received: 08/31/22 10:27

Percent Solids: 95.9

Method: 537 (Modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.21	0.020	ng/g	☼	09/06/22 07:04	09/09/22 05:37	1
Perfluoroheptanoic acid	ND		0.21	0.025	ng/g	☼	09/06/22 07:04	09/09/22 05:37	1
Perfluorooctanoic acid	ND		0.21	0.023	ng/g	☼	09/06/22 07:04	09/09/22 05:37	1

Client Sample ID: Import-6-20220830
Date Collected: 08/30/22 14:25
Date Received: 08/31/22 10:27

Lab Sample ID: 410-96265-2
Matrix: Solid
Percent Solids: 95.9

Method: 537 (Modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorononanoic acid	ND		0.21	0.024	ng/g	☼	09/06/22 07:04	09/09/22 05:37	1
Perfluorodecanoic acid	ND		0.21	0.025	ng/g	☼	09/06/22 07:04	09/09/22 05:37	1
Perfluorotridecanoic acid	ND		0.21	0.022	ng/g	☼	09/06/22 07:04	09/09/22 05:37	1
Perfluorotetradecanoic acid	ND		0.21	0.025	ng/g	☼	09/06/22 07:04	09/09/22 05:37	1
Perfluorobutanesulfonic acid	ND		0.41	0.37	ng/g	☼	09/06/22 07:04	09/09/22 05:37	1
Perfluorohexanesulfonic acid	ND		0.21	0.020	ng/g	☼	09/06/22 07:04	09/09/22 05:37	1
Perfluorooctanesulfonic acid	ND		0.21	0.036	ng/g	☼	09/06/22 07:04	09/09/22 05:37	1
NEtFOSAA	ND		0.21	0.023	ng/g	☼	09/06/22 07:04	09/09/22 05:37	1
NMeFOSAA	ND		0.21	0.032	ng/g	☼	09/06/22 07:04	09/09/22 05:37	1
Perfluoroheptanesulfonic acid	ND		0.21	0.021	ng/g	☼	09/06/22 07:04	09/09/22 05:37	1
Perfluorodecanesulfonic acid	ND		0.21	0.022	ng/g	☼	09/06/22 07:04	09/09/22 05:37	1
Perfluorooctanesulfonamide	ND		0.21	0.022	ng/g	☼	09/06/22 07:04	09/09/22 05:37	1
Perfluorobutanoic acid	ND		0.21	0.025	ng/g	☼	09/06/22 07:04	09/09/22 05:37	1
Perfluoroundecanoic acid	ND		0.21	0.058	ng/g	☼	09/06/22 07:04	09/09/22 05:37	1
Perfluorododecanoic acid	ND		0.21	0.024	ng/g	☼	09/06/22 07:04	09/09/22 05:37	1
6:2 Fluorotelomer sulfonic acid	ND		0.21	0.051	ng/g	☼	09/06/22 07:04	09/09/22 05:37	1
8:2 Fluorotelomer sulfonic acid	ND		0.21	0.018	ng/g	☼	09/06/22 07:04	09/09/22 05:37	1
Perfluoropentanoic acid	ND		0.21	0.025	ng/g	☼	09/06/22 07:04	09/09/22 05:37	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-8:2 FTS	*83*		*15 - 200*	*09/06/22 07:04*	*09/09/22 05:37*	*1*
M2-6:2 FTS	*82*		*10 - 200*	*09/06/22 07:04*	*09/09/22 05:37*	*1*
13C5 PFHxA	*84*		*10 - 174*	*09/06/22 07:04*	*09/09/22 05:37*	*1*
13C4 PFHpA	*83*		*10 - 178*	*09/06/22 07:04*	*09/09/22 05:37*	*1*
13C8 PFOA	*82*		*26 - 159*	*09/06/22 07:04*	*09/09/22 05:37*	*1*
13C9 PFNA	*85*		*26 - 165*	*09/06/22 07:04*	*09/09/22 05:37*	*1*
13C6 PFDA	*81*		*26 - 161*	*09/06/22 07:04*	*09/09/22 05:37*	*1*
13C7 PFUnA	*78*		*12 - 173*	*09/06/22 07:04*	*09/09/22 05:37*	*1*
13C2-PFDoDA	*66*		*11 - 166*	*09/06/22 07:04*	*09/09/22 05:37*	*1*
13C2 PFTeDA	*71*		*10 - 169*	*09/06/22 07:04*	*09/09/22 05:37*	*1*
13C3 PFBS	*81*		*27 - 179*	*09/06/22 07:04*	*09/09/22 05:37*	*1*
13C3 PFHxS	*90*		*24 - 171*	*09/06/22 07:04*	*09/09/22 05:37*	*1*
13C8 PFOS	*89*		*41 - 154*	*09/06/22 07:04*	*09/09/22 05:37*	*1*
d3-NMeFOSAA	*26*		*10 - 178*	*09/06/22 07:04*	*09/09/22 05:37*	*1*
d5-NEtFOSAA	*33*		*10 - 193*	*09/06/22 07:04*	*09/09/22 05:37*	*1*
13C8 FOSA	*71*		*14 - 163*	*09/06/22 07:04*	*09/09/22 05:37*	*1*
13C4 PFBA	*81*		*28 - 153*	*09/06/22 07:04*	*09/09/22 05:37*	*1*
13C5 PFPeA	*81*		*24 - 161*	*09/06/22 07:04*	*09/09/22 05:37*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**4.1**		1.0	1.0	%			09/01/22 08:28	1
Percent Solids	**95.9**		1.0	1.0	%			09/01/22 08:28	1

Isotope Dilution Summary

Client: Brown and Caldwell
Project/Site: Troy NY Water PFAS

Job ID: 410-96265-1

Method: 537 (Modified) - Fluorinated Alkyl Substances

Matrix: Solid **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		M282FTS	M262FTS	13C5PHA	C4PFHA	C8PFOA	C9PFNA	C6PFDA	13C7PUA
Lab Sample ID	Client Sample ID	(15-200)	(10-200)	(10-174)	(10-178)	(26-159)	(26-165)	(26-161)	(12-173)
410-96265-2	Import-6-20220830	83	82	84	83	82	85	81	78
LCS 410-292824/2-B	Lab Control Sample	91	90	88	83	86	94	84	86
MB 410-292824/1-B	Method Blank	98	99	88	92	90	86	87	84

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFDoDA	PFTDA	C3PFBS	C3PFHS	C8PFOS	d3NMFOS	d5NEFOS	PFOSA
Lab Sample ID	Client Sample ID	(11-166)	(10-169)	(27-179)	(24-171)	(41-154)	(10-178)	(10-193)	(14-163)
410-96265-2	Import-6-20220830	66	71	81	90	89	26	33	71
LCS 410-292824/2-B	Lab Control Sample	74	69	88	94	90	53	58	74
MB 410-292824/1-B	Method Blank	75	85	87	97	88	57	62	80

		Percent Isotope Dilution Recovery (Acceptance Limits)	
		PFBA	PFPeA
Lab Sample ID	Client Sample ID	(28-153)	(24-161)
410-96265-2	Import-6-20220830	81	81
LCS 410-292824/2-B	Lab Control Sample	88	89
MB 410-292824/1-B	Method Blank	88	91

Surrogate Legend

M282FTS = M2-8:2 FTS
M262FTS = M2-6:2 FTS
13C5PHA = 13C5 PFHxA
C4PFHA = 13C4 PFHpA
C8PFOA = 13C8 PFOA
C9PFNA = 13C9 PFNA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
PFDoDA = 13C2-PFDoDA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
C3PFHS = 13C3 PFHxS
C8PFOS = 13C8 PFOS
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
PFOSA = 13C8 FOSA
PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA

Method: 537 IDA - EPA 537 Isotope Dilution

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		M282FTS	M262FTS	13C5PHA	C4PFHA	C8PFOA	C9PFNA	C6PFDA	13C7PUA
Lab Sample ID	Client Sample ID	(33-200)	(17-200)	(24-179)	(31-182)	(48-162)	(51-167)	(49-163)	(34-174)
410-96265-1	FB-20220830	175	175	158	151	152	178 *5+ cn	149	120
LCS 410-295019/2-A	Lab Control Sample	133	132	134	129	135	139	128	131
LCSD 410-295019/3-A	Lab Control Sample Dup	135	153	149	146	145	147	134	135
MB 410-295019/1-A	Method Blank	166	172	169	172	174 *5+	171 *5+	164 *5+	159

Isotope Dilution Summary

Client: Brown and Caldwell
Job ID: 410-96265-1
Project/Site: Troy NY Water PFAS

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Matrix: Water
Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFDoDA	PFTDA	C3PFBS	C3PFHS	C8PFOS	d3NMFOS	d5NEFOS	PFOSA
Lab Sample ID	Client Sample ID	(17-176)	(10-179)	(16-200)	(28-188)	(51-159)	(31-174)	(29-195)	(10-168)
410-96265-1	FB-20220830	75	148	154	161	170 *5+ cn	175 *5+ cn	113	133
LCS 410-295019/2-A	Lab Control Sample	115	98	134	131	133	119	118	114
LCSD 410-295019/3-A	Lab Control Sample Dup	122	107	146	145	144	125	124	122
MB 410-295019/1-A	Method Blank	146	139	166	169	171 *5+	142	145	145

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFBA	PFPeA						
Lab Sample ID	Client Sample ID	(42-165)	(38-187)						
410-96265-1	FB-20220830	157	151						
LCS 410-295019/2-A	Lab Control Sample	134	136						
LCSD 410-295019/3-A	Lab Control Sample Dup	143	146						
MB 410-295019/1-A	Method Blank	172 *5+	172						

Surrogate Legend

M282FTS = M2-8:2 FTS
M262FTS = M2-6:2 FTS
13C5PHA = 13C5 PFHxA
C4PFHA = 13C4 PFHpA
C8PFOA = 13C8 PFOA
C9PFNA = 13C9 PFNA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
PFDoDA = 13C2-PFDoDA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
C3PFHS = 13C3 PFHxS
C8PFOS = 13C8 PFOS
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
PFOSA = 13C8 FOSA
PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA

Method: 537 (Modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 410-292824/1-B
Matrix: Solid
Analysis Batch: 293723

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 292824

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.20	0.019	ng/g		09/06/22 07:04	09/09/22 05:15	1
Perfluoroheptanoic acid	ND		0.20	0.024	ng/g		09/06/22 07:04	09/09/22 05:15	1
Perfluorooctanoic acid	ND		0.20	0.022	ng/g		09/06/22 07:04	09/09/22 05:15	1
Perfluorononanoic acid	ND		0.20	0.023	ng/g		09/06/22 07:04	09/09/22 05:15	1
Perfluorodecanoic acid	ND		0.20	0.024	ng/g		09/06/22 07:04	09/09/22 05:15	1
Perfluorotridecanoic acid	ND		0.20	0.021	ng/g		09/06/22 07:04	09/09/22 05:15	1
Perfluorotetradecanoic acid	ND		0.20	0.024	ng/g		09/06/22 07:04	09/09/22 05:15	1
Perfluorobutanesulfonic acid	ND		0.40	0.36	ng/g		09/06/22 07:04	09/09/22 05:15	1
Perfluorohexanesulfonic acid	ND		0.20	0.019	ng/g		09/06/22 07:04	09/09/22 05:15	1
Perfluorooctanesulfonic acid	ND		0.20	0.035	ng/g		09/06/22 07:04	09/09/22 05:15	1
NEtFOSAA	ND		0.20	0.022	ng/g		09/06/22 07:04	09/09/22 05:15	1
NMeFOSAA	ND		0.20	0.031	ng/g		09/06/22 07:04	09/09/22 05:15	1
Perfluoroheptanesulfonic acid	ND		0.20	0.020	ng/g		09/06/22 07:04	09/09/22 05:15	1
Perfluorodecanesulfonic acid	ND		0.20	0.021	ng/g		09/06/22 07:04	09/09/22 05:15	1
Perfluorooctanesulfonamide	ND		0.20	0.021	ng/g		09/06/22 07:04	09/09/22 05:15	1
Perfluorobutanoic acid	ND		0.20	0.024	ng/g		09/06/22 07:04	09/09/22 05:15	1
Perfluoroundecanoic acid	ND		0.20	0.056	ng/g		09/06/22 07:04	09/09/22 05:15	1
Perfluorododecanoic acid	ND		0.20	0.023	ng/g		09/06/22 07:04	09/09/22 05:15	1
6:2 Fluorotelomer sulfonic acid	ND		0.20	0.049	ng/g		09/06/22 07:04	09/09/22 05:15	1
8:2 Fluorotelomer sulfonic acid	ND		0.20	0.017	ng/g		09/06/22 07:04	09/09/22 05:15	1
Perfluoropentanoic acid	ND		0.20	0.024	ng/g		09/06/22 07:04	09/09/22 05:15	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-8:2 FTS	*98*		*15 - 200*	*09/06/22 07:04*	*09/09/22 05:15*	*1*
M2-6:2 FTS	*99*		*10 - 200*	*09/06/22 07:04*	*09/09/22 05:15*	*1*
13C5 PFHxA	*88*		*10 - 174*	*09/06/22 07:04*	*09/09/22 05:15*	*1*
13C4 PFHpA	*92*		*10 - 178*	*09/06/22 07:04*	*09/09/22 05:15*	*1*
13C8 PFOA	*90*		*26 - 159*	*09/06/22 07:04*	*09/09/22 05:15*	*1*
13C9 PFNA	*86*		*26 - 165*	*09/06/22 07:04*	*09/09/22 05:15*	*1*
13C6 PFDA	*87*		*26 - 161*	*09/06/22 07:04*	*09/09/22 05:15*	*1*
13C7 PFUnA	*84*		*12 - 173*	*09/06/22 07:04*	*09/09/22 05:15*	*1*
13C2-PFDoDA	*75*		*11 - 166*	*09/06/22 07:04*	*09/09/22 05:15*	*1*
13C2 PFTeDA	*85*		*10 - 169*	*09/06/22 07:04*	*09/09/22 05:15*	*1*
13C3 PFBS	*87*		*27 - 179*	*09/06/22 07:04*	*09/09/22 05:15*	*1*
13C3 PFHxS	*97*		*24 - 171*	*09/06/22 07:04*	*09/09/22 05:15*	*1*
13C8 PFOS	*88*		*41 - 154*	*09/06/22 07:04*	*09/09/22 05:15*	*1*
d3-NMeFOSAA	*57*		*10 - 178*	*09/06/22 07:04*	*09/09/22 05:15*	*1*
d5-NEtFOSAA	*62*		*10 - 193*	*09/06/22 07:04*	*09/09/22 05:15*	*1*
13C8 FOSA	*80*		*14 - 163*	*09/06/22 07:04*	*09/09/22 05:15*	*1*
13C4 PFBA	*88*		*28 - 153*	*09/06/22 07:04*	*09/09/22 05:15*	*1*
13C5 PFPeA	*91*		*24 - 161*	*09/06/22 07:04*	*09/09/22 05:15*	*1*

Lab Sample ID: LCS 410-292824/2-B
Matrix: Solid
Analysis Batch: 293723

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 292824

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Perfluorohexanoic acid			2.50	2.33		ng/g		93	59 - 132		
Perfluoroheptanoic acid			2.50	2.53		ng/g		101	59 - 137		

Method: 537 (Modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 410-292824/2-B
Matrix: Solid
Analysis Batch: 293723

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 292824

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanoic acid	2.50	2.39		ng/g		96	59 - 131
Perfluorononanoic acid	2.50	2.45		ng/g		98	61 - 134
Perfluorodecanoic acid	2.50	2.41		ng/g		96	56 - 133
Perfluorotridecanoic acid	2.50	2.31		ng/g		92	53 - 143
Perfluorotetradecanoic acid	2.50	2.47		ng/g		99	62 - 134
Perfluorobutanesulfonic acid	2.21	2.25		ng/g		102	54 - 130
Perfluorohexanesulfonic acid	2.28	2.13		ng/g		93	59 - 129
Perfluorooctanesulfonic acid	2.31	2.15		ng/g		93	61 - 126
NEtFOSAA	2.50	2.67		ng/g		107	57 - 127
NMeFOSAA	2.50	2.46		ng/g		98	60 - 134
Perfluoroheptanesulfonic acid	2.38	2.20		ng/g		92	59 - 132
Perfluorodecanesulfonic acid	2.41	2.05		ng/g		85	57 - 132
Perfluorooctanesulfonamide	2.50	2.54		ng/g		102	47 - 149
Perfluorobutanoic acid	2.50	2.43		ng/g		97	60 - 128
Perfluoroundecanoic acid	2.50	2.30		ng/g		92	60 - 134
Perfluorododecanoic acid	2.50	2.46		ng/g		98	60 - 135
6:2 Fluorotelomer sulfonic acid	2.37	2.38		ng/g		100	59 - 135
8:2 Fluorotelomer sulfonic acid	2.40	2.12		ng/g		89	55 - 133
Perfluoropentanoic acid	2.50	2.37		ng/g		95	58 - 134

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-8:2 FTS	*91*		*15 - 200*
M2-6:2 FTS	*90*		*10 - 200*
13C5 PFHxA	*88*		*10 - 174*
13C4 PFHpA	*83*		*10 - 178*
13C8 PFOA	*86*		*26 - 159*
13C9 PFNA	*94*		*26 - 165*
13C6 PFDA	*84*		*26 - 161*
13C7 PFUnA	*86*		*12 - 173*
13C2-PFDoDA	*74*		*11 - 166*
13C2 PFTeDA	*69*		*10 - 169*
13C3 PFBS	*88*		*27 - 179*
13C3 PFHxS	*94*		*24 - 171*
13C8 PFOS	*90*		*41 - 154*
d3-NMeFOSAA	*53*		*10 - 178*
d5-NEtFOSAA	*58*		*10 - 193*
13C8 FOSA	*74*		*14 - 163*
13C4 PFBA	*88*		*28 - 153*
13C5 PFPeA	*89*		*24 - 161*

Method: 537 IDA - EPA 537 Isotope Dilution

Lab Sample ID: MB 410-295019/1-A
Matrix: Water
Analysis Batch: 295787

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 295019

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		2.0	0.50	ng/L		09/12/22 16:43	09/14/22 19:42	1
Perfluoroheptanoic acid	ND		2.0	0.50	ng/L		09/12/22 16:43	09/14/22 19:42	1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-295019/1-A
Matrix: Water
Analysis Batch: 295787

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 295019

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid	ND		2.0	0.50	ng/L		09/12/22 16:43	09/14/22 19:42	1
Perfluorononanoic acid	ND		2.0	0.50	ng/L		09/12/22 16:43	09/14/22 19:42	1
Perfluorodecanoic acid	ND		2.0	0.50	ng/L		09/12/22 16:43	09/14/22 19:42	1
Perfluorotridecanoic acid	ND		2.0	0.50	ng/L		09/12/22 16:43	09/14/22 19:42	1
Perfluorotetradecanoic acid	ND		2.0	0.50	ng/L		09/12/22 16:43	09/14/22 19:42	1
Perfluorobutanesulfonic acid	ND		2.0	0.50	ng/L		09/12/22 16:43	09/14/22 19:42	1
Perfluorohexanesulfonic acid	ND		2.0	0.50	ng/L		09/12/22 16:43	09/14/22 19:42	1
Perfluorooctanesulfonic acid	ND		2.0	0.50	ng/L		09/12/22 16:43	09/14/22 19:42	1
NEtFOSAA	ND		3.0	0.50	ng/L		09/12/22 16:43	09/14/22 19:42	1
NMeFOSAA	ND		2.0	0.60	ng/L		09/12/22 16:43	09/14/22 19:42	1
Perfluoroheptanesulfonic acid	ND		2.0	0.50	ng/L		09/12/22 16:43	09/14/22 19:42	1
Perfluorodecanesulfonic acid	ND		2.0	0.50	ng/L		09/12/22 16:43	09/14/22 19:42	1
Perfluorooctanesulfonamide	ND		2.0	0.50	ng/L		09/12/22 16:43	09/14/22 19:42	1
Perfluorobutanoic acid	ND		5.0	2.0	ng/L		09/12/22 16:43	09/14/22 19:42	1
Perfluoroundecanoic acid	ND		2.0	0.50	ng/L		09/12/22 16:43	09/14/22 19:42	1
Perfluorododecanoic acid	ND		2.0	0.50	ng/L		09/12/22 16:43	09/14/22 19:42	1
6:2 Fluorotelomer sulfonic acid	ND		5.0	4.2	ng/L		09/12/22 16:43	09/14/22 19:42	1
8:2 Fluorotelomer sulfonic acid	ND		3.0	1.0	ng/L		09/12/22 16:43	09/14/22 19:42	1
Perfluoropentanoic acid	ND		2.0	0.50	ng/L		09/12/22 16:43	09/14/22 19:42	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-8:2 FTS	*166*		*33 - 200*	*09/12/22 16:43*	*09/14/22 19:42*	*1*
M2-6:2 FTS	*172*		*17 - 200*	*09/12/22 16:43*	*09/14/22 19:42*	*1*
13C5 PFHxA	*169*		*24 - 179*	*09/12/22 16:43*	*09/14/22 19:42*	*1*
13C4 PFHpA	*172*		*31 - 182*	*09/12/22 16:43*	*09/14/22 19:42*	*1*
13C8 PFOA	*174*	**5+*	*48 - 162*	*09/12/22 16:43*	*09/14/22 19:42*	*1*
13C9 PFNA	*171*	**5+*	*51 - 167*	*09/12/22 16:43*	*09/14/22 19:42*	*1*
13C6 PFDA	*164*	**5+*	*49 - 163*	*09/12/22 16:43*	*09/14/22 19:42*	*1*
13C7 PFUnA	*159*		*34 - 174*	*09/12/22 16:43*	*09/14/22 19:42*	*1*
13C2-PFDoDA	*146*		*17 - 176*	*09/12/22 16:43*	*09/14/22 19:42*	*1*
13C2 PFTeDA	*139*		*10 - 179*	*09/12/22 16:43*	*09/14/22 19:42*	*1*
13C3 PFBS	*166*		*16 - 200*	*09/12/22 16:43*	*09/14/22 19:42*	*1*
13C3 PFHxS	*169*		*28 - 188*	*09/12/22 16:43*	*09/14/22 19:42*	*1*
13C8 PFOS	*171*	**5+*	*51 - 159*	*09/12/22 16:43*	*09/14/22 19:42*	*1*
d3-NMeFOSAA	*142*		*31 - 174*	*09/12/22 16:43*	*09/14/22 19:42*	*1*
d5-NEtFOSAA	*145*		*29 - 195*	*09/12/22 16:43*	*09/14/22 19:42*	*1*
13C8 FOSA	*145*		*10 - 168*	*09/12/22 16:43*	*09/14/22 19:42*	*1*
13C4 PFBA	*172*	**5+*	*42 - 165*	*09/12/22 16:43*	*09/14/22 19:42*	*1*
13C5 PFPeA	*172*		*38 - 187*	*09/12/22 16:43*	*09/14/22 19:42*	*1*

Lab Sample ID: LCS 410-295019/2-A
Matrix: Water
Analysis Batch: 295787

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 295019

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	25.6	20.1		ng/L		79	58 - 139
Perfluoroheptanoic acid	25.6	20.6		ng/L		80	59 - 145
Perfluorooctanoic acid	25.6	19.6		ng/L		77	51 - 145
Perfluorononanoic acid	25.6	20.4		ng/L		80	61 - 139

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-295019/2-A
Matrix: Water
Analysis Batch: 295787

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 295019

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorodecanoic acid	25.6	20.5		ng/L		80	56 - 138
Perfluorotridecanoic acid	25.6	17.7		ng/L		69	58 - 146
Perfluorotetradecanoic acid	25.6	19.1		ng/L		75	62 - 139
Perfluorobutanesulfonic acid	22.7	18.8		ng/L		83	53 - 138
Perfluorohexanesulfonic acid	23.3	17.6		ng/L		76	58 - 134
Perfluorooctanesulfonic acid	23.7	19.2		ng/L		81	45 - 150
NEtFOSAA	25.6	20.8		ng/L		81	55 - 134
NMeFOSAA	25.6	21.6		ng/L		84	59 - 140
Perfluoroheptanesulfonic acid	24.4	19.7		ng/L		81	56 - 140
Perfluorodecanesulfonic acid	24.7	17.2		ng/L		70	55 - 137
Perfluorooctanesulfonamide	25.6	22.5		ng/L		88	43 - 167
Perfluorobutanoic acid	25.6	20.4		ng/L		80	59 - 136
Perfluoroundecanoic acid	25.6	18.7		ng/L		73	60 - 141
Perfluorododecanoic acid	25.6	19.5		ng/L		76	59 - 143
6:2 Fluorotelomer sulfonic acid	24.3	22.8		ng/L		94	28 - 173
8:2 Fluorotelomer sulfonic acid	24.5	20.2		ng/L		82	55 - 138
Perfluoropentanoic acid	25.6	20.2		ng/L		79	57 - 141

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-8:2 FTS	*133*		*33 - 200*
M2-6:2 FTS	*132*		*17 - 200*
13C5 PFHxA	*134*		*24 - 179*
13C4 PFHpA	*129*		*31 - 182*
13C8 PFOA	*135*		*48 - 162*
13C9 PFNA	*139*		*51 - 167*
13C6 PFDA	*128*		*49 - 163*
13C7 PFUnA	*131*		*34 - 174*
13C2-PFDoDA	*115*		*17 - 176*
13C2 PFTeDA	*98*		*10 - 179*
13C3 PFBS	*134*		*16 - 200*
13C3 PFHxS	*131*		*28 - 188*
13C8 PFOS	*133*		*51 - 159*
d3-NMeFOSAA	*119*		*31 - 174*
d5-NEtFOSAA	*118*		*29 - 195*
13C8 FOSA	*114*		*10 - 168*
13C4 PFBA	*134*		*42 - 165*
13C5 PFPeA	*136*		*38 - 187*

Lab Sample ID: LCSD 410-295019/3-A
Matrix: Water
Analysis Batch: 295787

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 295019

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorohexanoic acid	25.6	19.8		ng/L		77	58 - 139	2	30
Perfluoroheptanoic acid	25.6	19.4		ng/L		76	59 - 145	6	30
Perfluorooctanoic acid	25.6	20.4		ng/L		80	51 - 145	4	30
Perfluorononanoic acid	25.6	20.9		ng/L		82	61 - 139	2	30
Perfluorodecanoic acid	25.6	20.8		ng/L		81	56 - 138	1	30
Perfluorotridecanoic acid	25.6	18.5		ng/L		72	58 - 146	4	30

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCSD 410-295019/3-A
Matrix: Water
Analysis Batch: 295787

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 295019

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorotetradecanoic acid			25.6	19.4		ng/L		76	62 - 139	1	30
Perfluorobutanesulfonic acid			22.7	18.1		ng/L		80	53 - 138	4	30
Perfluorohexanesulfonic acid			23.3	17.5		ng/L		75	58 - 134	1	30
Perfluorooctanesulfonic acid			23.7	18.3		ng/L		77	45 - 150	5	30
NEtFOSAA			25.6	22.6		ng/L		88	55 - 134	8	30
NMeFOSAA			25.6	21.3		ng/L		83	59 - 140	1	30
Perfluoroheptanesulfonic acid			24.4	19.0		ng/L		78	56 - 140	4	30
Perfluorodecanesulfonic acid			24.7	16.7		ng/L		67	55 - 137	3	30
Perfluorooctanesulfonamide			25.6	21.9		ng/L		86	43 - 167	3	30
Perfluorobutanoic acid			25.6	20.7		ng/L		81	59 - 136	1	30
Perfluoroundecanoic acid			25.6	20.6		ng/L		80	60 - 141	10	30
Perfluorododecanoic acid			25.6	20.6		ng/L		81	59 - 143	6	30
6:2 Fluorotelomer sulfonic acid			24.3	21.1		ng/L		87	28 - 173	8	30
8:2 Fluorotelomer sulfonic acid			24.5	21.3		ng/L		87	55 - 138	5	30
Perfluoropentanoic acid			25.6	19.7		ng/L		77	57 - 141	2	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
M2-8:2 FTS	*135*		*33 - 200*
M2-6:2 FTS	*153*		*17 - 200*
13C5 PFHxA	*149*		*24 - 179*
13C4 PFHpA	*146*		*31 - 182*
13C8 PFOA	*145*		*48 - 162*
13C9 PFNA	*147*		*51 - 167*
13C6 PFDA	*134*		*49 - 163*
13C7 PFUnA	*135*		*34 - 174*
13C2-PFDoDA	*122*		*17 - 176*
13C2 PFTeDA	*107*		*10 - 179*
13C3 PFBS	*146*		*16 - 200*
13C3 PFHxS	*145*		*28 - 188*
13C8 PFOS	*144*		*51 - 159*
d3-NMeFOSAA	*125*		*31 - 174*
d5-NEtFOSAA	*124*		*29 - 195*
13C8 FOSA	*122*		*10 - 168*
13C4 PFBA	*143*		*42 - 165*
13C5 PFPeA	*146*		*38 - 187*

LCMS

Prep Batch: 292824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-96265-2	Import-6-20220830	Total/NA	Solid	SHAKE	
MB 410-292824/1-B	Method Blank	Total/NA	Solid	SHAKE	
LCS 410-292824/2-B	Lab Control Sample	Total/NA	Solid	SHAKE	

Cleanup Batch: 293654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-96265-2	Import-6-20220830	Total/NA	Solid	Extract Aliquot	292824
MB 410-292824/1-B	Method Blank	Total/NA	Solid	Extract Aliquot	292824
LCS 410-292824/2-B	Lab Control Sample	Total/NA	Solid	Extract Aliquot	292824

Analysis Batch: 293723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-96265-2	Import-6-20220830	Total/NA	Solid	537 (Modified)	293654
MB 410-292824/1-B	Method Blank	Total/NA	Solid	537 (Modified)	293654
LCS 410-292824/2-B	Lab Control Sample	Total/NA	Solid	537 (Modified)	293654

Prep Batch: 295019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-96265-1	FB-20220830	Total/NA	Water	537 IDA	
MB 410-295019/1-A	Method Blank	Total/NA	Water	537 IDA	
LCS 410-295019/2-A	Lab Control Sample	Total/NA	Water	537 IDA	
LCSD 410-295019/3-A	Lab Control Sample Dup	Total/NA	Water	537 IDA	

Analysis Batch: 295114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-96265-1	FB-20220830	Total/NA	Water	537 IDA	295019

Analysis Batch: 295787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-295019/1-A	Method Blank	Total/NA	Water	537 IDA	295019
LCS 410-295019/2-A	Lab Control Sample	Total/NA	Water	537 IDA	295019
LCSD 410-295019/3-A	Lab Control Sample Dup	Total/NA	Water	537 IDA	295019

General Chemistry

Analysis Batch: 291873

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-96265-2	Import-6-20220830	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Brown and Caldwell
Project/Site: Troy NY Water PFAS

Job ID: 410-96265-1

Client Sample ID: FB-20220830

Lab Sample ID: 410-96265-1

Date Collected: 08/30/22 14:30

Matrix: Water

Date Received: 08/31/22 10:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 IDA			295019	QLP7	ELLE	09/12/22 16:43
Total/NA	Analysis	537 IDA		1	295114	MT26	ELLE	09/14/22 00:34

Client Sample ID: Import-6-20220830

Lab Sample ID: 410-96265-2

Date Collected: 08/30/22 14:25

Matrix: Solid

Date Received: 08/31/22 10:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	291873	UVJN	ELLE	09/01/22 08:28

Client Sample ID: Import-6-20220830

Lab Sample ID: 410-96265-2

Date Collected: 08/30/22 14:25

Matrix: Solid

Date Received: 08/31/22 10:27

Percent Solids: 95.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			292824	PR5J	ELLE	09/06/22 07:04
Total/NA	Cleanup	Extract Aliquot			293654	X5YV	ELLE	09/07/22 20:56
Total/NA	Analysis	537 (Modified)		1	293723	ZG8V	ELLE	09/09/22 05:37

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Brown and Caldwell
Project/Site: Troy NY Water PFAS

Job ID: 410-96265-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10670	04-01-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
537 (Modified)	SHAKE	Solid	6:2 Fluorotelomer sulfonic acid
537 (Modified)	SHAKE	Solid	8:2 Fluorotelomer sulfonic acid
537 (Modified)	SHAKE	Solid	NEtFOSAA
537 (Modified)	SHAKE	Solid	NMeFOSAA
537 (Modified)	SHAKE	Solid	Perfluorobutanesulfonic acid
537 (Modified)	SHAKE	Solid	Perfluorobutanoic acid
537 (Modified)	SHAKE	Solid	Perfluorodecanesulfonic acid
537 (Modified)	SHAKE	Solid	Perfluorodecanoic acid
537 (Modified)	SHAKE	Solid	Perfluorododecanoic acid
537 (Modified)	SHAKE	Solid	Perfluoroheptanesulfonic acid
537 (Modified)	SHAKE	Solid	Perfluoroheptanoic acid
537 (Modified)	SHAKE	Solid	Perfluorohexanesulfonic acid
537 (Modified)	SHAKE	Solid	Perfluorohexanoic acid
537 (Modified)	SHAKE	Solid	Perfluorononanoic acid
537 (Modified)	SHAKE	Solid	Perfluorooctanesulfonamide
537 (Modified)	SHAKE	Solid	Perfluorooctanesulfonic acid
537 (Modified)	SHAKE	Solid	Perfluorooctanoic acid
537 (Modified)	SHAKE	Solid	Perfluoropentanoic acid
537 (Modified)	SHAKE	Solid	Perfluorotetradecanoic acid
537 (Modified)	SHAKE	Solid	Perfluorotridecanoic acid
537 (Modified)	SHAKE	Solid	Perfluoroundecanoic acid
537 IDA	537 IDA	Water	6:2 Fluorotelomer sulfonic acid
537 IDA	537 IDA	Water	8:2 Fluorotelomer sulfonic acid
537 IDA	537 IDA	Water	NEtFOSAA
537 IDA	537 IDA	Water	NMeFOSAA
537 IDA	537 IDA	Water	Perfluorobutanesulfonic acid
537 IDA	537 IDA	Water	Perfluorobutanoic acid
537 IDA	537 IDA	Water	Perfluorodecanesulfonic acid
537 IDA	537 IDA	Water	Perfluorodecanoic acid
537 IDA	537 IDA	Water	Perfluorododecanoic acid
537 IDA	537 IDA	Water	Perfluoroheptanesulfonic acid
537 IDA	537 IDA	Water	Perfluoroheptanoic acid
537 IDA	537 IDA	Water	Perfluorohexanesulfonic acid
537 IDA	537 IDA	Water	Perfluorohexanoic acid
537 IDA	537 IDA	Water	Perfluorononanoic acid
537 IDA	537 IDA	Water	Perfluorooctanesulfonamide
537 IDA	537 IDA	Water	Perfluorooctanesulfonic acid
537 IDA	537 IDA	Water	Perfluorooctanoic acid
537 IDA	537 IDA	Water	Perfluoropentanoic acid
537 IDA	537 IDA	Water	Perfluorotetradecanoic acid
537 IDA	537 IDA	Water	Perfluorotridecanoic acid
537 IDA	537 IDA	Water	Perfluoroundecanoic acid
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

Client: Brown and Caldwell
Project/Site: Troy NY Water PFAS

Job ID: 410-96265-1

Method	Method Description	Protocol	Laboratory
537 (Modified)	Fluorinated Alkyl Substances	EPA	ELLE
537 IDA	EPA 537 Isotope Dilution	EPA	ELLE
Moisture	Percent Moisture	EPA	ELLE
537 IDA	EPA 537 Isotope Dilution	EPA	ELLE
Extract Aliquot	Preparation, Extract Aliquot	None	ELLE
SHAKE	Shake Extraction with Ultrasonic Bath Extraction	SW846	ELLE

Protocol References:

EPA = US Environmental Protection Agency

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Brown and Caldwell
Project/Site: Troy NY Water PFAS

Job ID: 410-96265-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-96265-1	FB-20220830	Water	08/30/22 14:30	08/31/22 10:27
410-96265-2	Import-6-20220830	Solid	08/30/22 14:25	08/31/22 10:27

Eurofins Lancaster Laboratories Environme
2425 New Holland Pike
Lancaster, PA 17601
Phone: 717-656-2300 Fax: 717-656-2681

Chain of Custody Record

eurofins Environment Testing America

410-96265 Chain of Custody

Client Information	Sampler: Brett Taylor	Lab PM: Weyandt, Barbara A	c: 4183-13964.1
Client Contact: Mr. ~~Steve Bentley~~ Adam Sherman	Phone: 518-560-5907	E-Mail: Barbara.Weyandt@et.e	1 of 1
Company: Brown and Caldwell	PWSID:		
Address: 500 N. Franklin Turnpike Suite 306	Due Date Requested:		
City: Ramsey	TAT Requested (days): STANDARD		
State, Zip: NJ, 07446	Compliance Project: Δ Yes Δ No		
Phone: ~~201-574-4713(Tel)~~ 518-560-5911	PO #: 152167.205		
Email: ~~sdentico~~@brwncald.com → Ashermen	WO #:		
Project Name: Troy NY Water PFAS	Project #: 41003608		
Site:	SSOW#:		

Analysis

Observation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Moisture - Moisture	PFC_IDA - NY 21 PFAS	Total Number of containers	Special Instructions/Note:
Preservation Code:					X	X	N	N	X
FB-20220830	8/30/22	1430	G	W			X		
Impact-6-20220830	8/30/22	1425	C	S		X	X		

8/30/22

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	8-26-22 08:40	ELLE			
2	[signature]	8/30/22 1530	BC	[signature]		
3				[signature]	8/31/22 1027	[illegible]

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Brown and Caldwell

Job Number: 410-96265-1

Login Number: 96265
List Number: 1
Creator: Hartlove, Katie M

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

Attachment 4b - NYS Category B Deliverable for 1,4-Dioxane Results

ANALYTICAL REPORT

Job Number: 410-96269-1

Job Description: Troy NY Water 1,4 Dioxane

For:
Brown and Caldwell
500 North Franklin Turnpike
Suite 306
Ramsey, NJ 07446

Attention: Mr. James L Marolda

Barb Weyandt

Approved for release.
Barbara A Weyandt
Project Manager
9/15/2022 3:22 PM

Barbara A Weyandt, Project Manager
2425 New Holland Pike, Lancaster, PA, 17601
(717)556-7264
Barbara.Weyandt@et.eurofinsus.com
09/15/2022

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Job Number: 410-96269-1

Job Description: Troy NY Water 1,4 Dioxane

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied, except as otherwise agreed. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. Except as otherwise agreed, no purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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Job Narrative
410-96269-1

Receipt
The samples were received on 8/31/2022 10:25 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.5°C

GC/MS Semi VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Sample Summary

Client: Brown and Caldwell
Job ID: 410-96269-1
Project/Site: Troy NY Water 1,4 Dioxane

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-96269-1	FB-20220830	Water	08/30/22 14:33	08/31/22 10:25
410-96269-2	Import-6-20220830	Solid	08/30/22 14:20	08/31/22 10:25

Detection Summary

Client: Brown and Caldwell
Job ID: 410-96269-1
Project/Site: Troy NY Water 1,4 Dioxane

Client Sample ID: FB-20220830
Lab Sample ID: 410-96269-1

No Detections.

Client Sample ID: Import-6-20220830
Lab Sample ID: 410-96269-2

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Brown and Caldwell
Job ID: 410-96269-1
Project/Site: Troy NY Water 1,4 Dioxane

Method	Method Description	Protocol	Laboratory
8270E SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	ELLE
Moisture	Percent Moisture	EPA	ELLE
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	ELLE
3546	Microwave Extraction	SW846	ELLE

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Client Sample ID: FB-20220830
Lab Sample ID: 410-96269-1
Date Collected: 08/30/22 14:33
Matrix: Water
Date Received: 08/31/22 10:25

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.31	0.10	ug/L		09/03/22 10:17	09/06/22 13:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*89*		*10 - 110*	*09/03/22 10:17*	*09/06/22 13:35*	*1*
Fluoranthene-d10 (Surr)	*83*		*47 - 128*	*09/03/22 10:17*	*09/06/22 13:35*	*1*
1-Methylnaphthalene-d10 (Surr)	*77*		*36 - 111*	*09/03/22 10:17*	*09/06/22 13:35*	*1*

Client Sample ID: Import-6-20220830
Lab Sample ID: 410-96269-2
Date Collected: 08/30/22 14:20
Matrix: Solid
Date Received: 08/31/22 10:25

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**4.5**		1.0	1.0	%			09/02/22 13:12	1
Percent Solids	**95.5**		1.0	1.0	%			09/02/22 13:12	1

Client Sample ID: Import-6-20220830
Lab Sample ID: 410-96269-2
Date Collected: 08/30/22 14:20
Matrix: Solid
Date Received: 08/31/22 10:25
Percent Solids: 95.5

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		3.1	1.4	ug/Kg	☼	09/13/22 18:30	09/14/22 17:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*83*		*19 - 133*	*09/13/22 18:30*	*09/14/22 17:49*	*1*
Fluoranthene-d10 (Surr)	*77*		*22 - 152*	*09/13/22 18:30*	*09/14/22 17:49*	*1*
1-Methylnaphthalene-d10 (Surr)	*76*		*26 - 123*	*09/13/22 18:30*	*09/14/22 17:49*	*1*

Surrogate Summary

Client: Brown and Caldwell
Job ID: 410-96269-1
Project/Site: Troy NY Water 1,4 Dioxane

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BAPd12	FLN10	MNPd10
Lab Sample ID	Client Sample ID	(19-133)	(22-152)	(26-123)
410-96269-2	Import-6-20220830	83	77	76
LCS 410-295384/2-A	Lab Control Sample	94	79	84
MB 410-295384/1-A	Method Blank	83	73	73

Surrogate Legend

BAPd12 = Benzo(a)pyrene-d12 (Surr)
FLN10 = Fluoranthene-d10 (Surr)
MNPd10 = 1-Methylnaphthalene-d10 (Surr)

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BAPd12	FLN10	MNPd10
Lab Sample ID	Client Sample ID	(10-110)	(47-128)	(36-111)
410-96269-1	FB-20220830	89	83	77
LCS 410-292631/2-A	Lab Control Sample	98	84	82
MB 410-292631/1-A	Method Blank	97	88	79

Surrogate Legend

BAPd12 = Benzo(a)pyrene-d12 (Surr)
FLN10 = Fluoranthene-d10 (Surr)
MNPd10 = 1-Methylnaphthalene-d10 (Surr)

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 410-292631/1-A
Matrix: Water
Analysis Batch: 292808

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 292631

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.30	0.10	ug/L		09/03/22 10:17	09/06/22 07:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*97*		*10 - 110*	*09/03/22 10:17*	*09/06/22 07:48*	*1*
Fluoranthene-d10 (Surr)	*88*		*47 - 128*	*09/03/22 10:17*	*09/06/22 07:48*	*1*
1-Methylnaphthalene-d10 (Surr)	*79*		*36 - 111*	*09/03/22 10:17*	*09/06/22 07:48*	*1*

Lab Sample ID: LCS 410-292631/2-A
Matrix: Water
Analysis Batch: 292808

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 292631

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,4-Dioxane			1.00	0.401		ug/L		40	23 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Benzo(a)pyrene-d12 (Surr)	*98*		*10 - 110*
Fluoranthene-d10 (Surr)	*84*		*47 - 128*
1-Methylnaphthalene-d10 (Surr)	*82*		*36 - 111*

Lab Sample ID: MB 410-295384/1-A
Matrix: Solid
Analysis Batch: 295923

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 295384

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		3.0	1.3	ug/Kg		09/13/22 18:30	09/14/22 17:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*83*		*19 - 133*	*09/13/22 18:30*	*09/14/22 17:02*	*1*
Fluoranthene-d10 (Surr)	*73*		*22 - 152*	*09/13/22 18:30*	*09/14/22 17:02*	*1*
1-Methylnaphthalene-d10 (Surr)	*73*		*26 - 123*	*09/13/22 18:30*	*09/14/22 17:02*	*1*

Lab Sample ID: LCS 410-295384/2-A
Matrix: Solid
Analysis Batch: 295923

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 295384

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,4-Dioxane			33.3	14.9		ug/Kg		45	15 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Benzo(a)pyrene-d12 (Surr)	*94*		*19 - 133*
Fluoranthene-d10 (Surr)	*79*		*22 - 152*
1-Methylnaphthalene-d10 (Surr)	*84*		*26 - 123*

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: Brown and Caldwell
Project/Site: Troy NY Water 1,4 Dioxane

Job ID: 410-96269-1

GC/MS Semi VOA

Prep Batch: 292631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-96269-1	FB-20220830	Total/NA	Water	3510C	
MB 410-292631/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-292631/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 292808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-96269-1	FB-20220830	Total/NA	Water	8270E SIM	292631
MB 410-292631/1-A	Method Blank	Total/NA	Water	8270E SIM	292631
LCS 410-292631/2-A	Lab Control Sample	Total/NA	Water	8270E SIM	292631

Prep Batch: 295384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-96269-2	Import-6-20220830	Total/NA	Solid	3546	
MB 410-295384/1-A	Method Blank	Total/NA	Solid	3546	
LCS 410-295384/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 295923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-96269-2	Import-6-20220830	Total/NA	Solid	8270E SIM	295384
MB 410-295384/1-A	Method Blank	Total/NA	Solid	8270E SIM	295384
LCS 410-295384/2-A	Lab Control Sample	Total/NA	Solid	8270E SIM	295384

General Chemistry

Analysis Batch: 292456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-96269-2	Import-6-20220830	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Brown and Caldwell
Project/Site: Troy NY Water 1,4 Dioxane

Job ID: 410-96269-1

Client Sample ID: FB-20220830
Date Collected: 08/30/22 14:33
Date Received: 08/31/22 10:25

Lab Sample ID: 410-96269-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			292631	QJZ6	ELLE	09/03/22 10:17
Total/NA	Analysis	8270E SIM		1	292808	SJ89	ELLE	09/06/22 13:35

Client Sample ID: Import-6-20220830
Date Collected: 08/30/22 14:20
Date Received: 08/31/22 10:25

Lab Sample ID: 410-96269-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	292456	UVJN	ELLE	09/02/22 13:12

Client Sample ID: Import-6-20220830
Date Collected: 08/30/22 14:20
Date Received: 08/31/22 10:25

Lab Sample ID: 410-96269-2
Matrix: Solid
Percent Solids: 95.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			295384	MD4W	ELLE	09/13/22 18:30
Total/NA	Analysis	8270E SIM		1	295923	SJ89	ELLE	09/14/22 17:49

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Brown and Caldwell
Job ID: 410-96269-1
Project/Site: Troy NY Water 1,4 Dioxane

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10670	04-01-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method 8270E SIM

Semivolatile Organic Compounds (GC/MS SIM) by Method 8270E

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-96269-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): Rxi-.5SilMS ID: 0.25(mm)

Client Sample ID	Lab Sample ID	MNPd10 #	FLN10 #	BAPd12 #
Import-6-20220830	410-96269-2	76	77	83
	MB 410-295384/1-A	73	73	83
	LCS 410-295384/2-A	84	79	94

	QC LIMITS
MNPd10 = 1-Methylnaphthalene-d10 (Surr)	26-123
FLN10 = Fluoranthene-d10 (Surr)	22-152
BAPd12 = Benzo(a)pyrene-d12 (Surr)	19-133

Column to be used to flag recovery values

FORM II 8270E SIM

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-96269-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-5MS 30m ID: 0.25(mm)

Client Sample ID	Lab Sample ID	MNPd10 #	FLN10 #	BAPd12 #
FB-20220830	410-96269-1	77	83	89
	MB 410-292631/1-A	79	88	97
	LCS 410-292631/2-A	82	84	98

	QC LIMITS
MNPd10 = 1-Methylnaphthalene-d10 (Surr)	36-111
FLN10 = Fluoranthene-d10 (Surr)	47-128
BAPd12 = Benzo(a)pyrene-d12 (Surr)	10-110

Column to be used to flag recovery values

FORM II 8270E SIM

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-96269-1

SDG No.:

Matrix: Water Level: Low Lab File ID: NI0073.D

Lab ID: LCS 410-292631/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,4-Dioxane	1.00	0.401	40	23-120	

Column to be used to flag recovery and RPD values

FORM III 8270E SIM

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-96269-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: CI0603.D

Lab ID: LCS 410-295384/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,4-Dioxane	33.3	14.9	45	15-120	

Column to be used to flag recovery and RPD values

FORM III 8270E SIM

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-96269-1

SDG No.:

Lab File ID: NI0072.D Lab Sample ID: MB 410-292631/1-A

Matrix: Water Date Extracted: 09/03/2022 10:17

Instrument ID: HP23263 Date Analyzed: 09/06/2022 07:48

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-292631/2-A	NI0073.D	09/06/2022 08:09
FB-20220830	410-96269-1	NI0088.D	09/06/2022 13:35

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-96269-1

SDG No.:

Lab File ID: CI0602.D Lab Sample ID: MB 410-295384/1-A

Matrix: Solid Date Extracted: 09/13/2022 18:30

Instrument ID: HP10623 Date Analyzed: 09/14/2022 17:02

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-295384/2-A	CI0603.D	09/14/2022 17:25
Import-6-20220830	410-96269-2	CI0604.D	09/14/2022 17:49

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-96269-1

SDG No.:

Lab File ID: CH0900.D DFTPP Injection Date: 08/09/2022

Instrument ID: HP10623 DFTPP Injection Time: 14:50

Analysis Batch No.: 284284

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	29.0	
68	Less than 2% of mass 69	0.3	(0.9) 1
69	Mass 69 Relative abundance	34.9	
70	Less than 2% of mass 69	0.2	(0.6) 1
127	10-80% of Base Peak	45.1	
197	Less than 2% of mass 198	0.1	
198	Base peak	100.0	
199	5-9% of mass 198	6.8	
275	10-60% of Base Peak	25.5	
365	Greater than 1% of mass 198	2.1	
441	present but less than 24% of mass 442	8.8	(15.8) 2
442	Greater than 50% of mass 198	55.6	
443	15-24% of mass 442	10.9	(19.6) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	ICIS 410-284284/2	CH0901.D	08/09/2022	15:22
	IC 410-284284/3	CH0902.D	08/09/2022	15:50
	IC 410-284284/4	CH0903.D	08/09/2022	16:13
	IC 410-284284/5	CH0904.D	08/09/2022	16:36
	IC 410-284284/6	CH0905.D	08/09/2022	17:00
	IC 410-284284/7	CH0906.D	08/09/2022	17:23
	IC 410-284284/8	CH0907.D	08/09/2022	17:46
	ICV 410-284284/11	CH0910.D	08/09/2022	18:56

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-96269-1

SDG No.:

Lab File ID: CI0600.D DFTPP Injection Date: 09/14/2022

Instrument ID: HP10623 DFTPP Injection Time: 15:43

Analysis Batch No.: 295923

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	25.8	
68	Less than 2% of mass 69	0.6	(1.9) 1
69	Mass 69 Relative abundance	31.5	
70	Less than 2% of mass 69	0.1	(0.5) 1
127	10-80% of Base Peak	44.7	
197	Less than 2% of mass 198	0.1	
198	Base peak	100.0	
199	5-9% of mass 198	6.9	
275	10-60% of Base Peak	29.8	
365	Greater than 1% of mass 198	2.9	
441	present but less than 24% of mass 442	14.6	(15.5) 2
442	Greater than 50% of mass 198	94.1	
443	15-24% of mass 442	18.5	(19.6) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 410-295923/2	CI0601.D	09/14/2022	16:06
	MB 410-295384/1-A	CI0602.D	09/14/2022	17:02
	LCS 410-295384/2-A	CI0603.D	09/14/2022	17:25
Import-6-20220830	410-96269-2	CI0604.D	09/14/2022	17:49

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-96269-1

SDG No.:

Lab File ID: ND1400.D DFTPP Injection Date: 04/29/2022

Instrument ID: HP23263 DFTPP Injection Time: 14:24

Analysis Batch No.: 250058

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	62.1	
68	Less than 2% of mass 69	1.2	(1.8) 1
69	Mass 69 Relative abundance	65.6	
70	Less than 2% of mass 69	0.4	(0.5) 1
127	10-80% of Base Peak	60.9	
197	Less than 2% of mass 198	0.0	
198	Base peak	100.0	
199	5-9% of mass 198	7.1	
275	10-60% of Base Peak	25.8	
365	Greater than 1% of mass 198	3.3	
441	present but less than 24% of mass 442	10.6	(16.1) 2
442	Greater than 50% of mass 198	66.2	
443	15-24% of mass 442	13.3	(20.1) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	ICIS 410-250058/2	ND1401.D	04/29/2022	14:59
	IC 410-250058/3	ND1402.D	04/29/2022	15:37
	IC 410-250058/4	ND1403.D	04/29/2022	15:59
	IC 410-250058/5	ND1404.D	04/29/2022	16:20
	IC 410-250058/6	ND1405.D	04/29/2022	16:42
	IC 410-250058/7	ND1406.D	04/29/2022	17:03
	ICV 410-250058/9	ND1408.D	04/29/2022	17:47

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-96269-1

SDG No.:

Lab File ID: NI0070.D DFTPP Injection Date: 09/06/2022

Instrument ID: HP23263 DFTPP Injection Time: 07:01

Analysis Batch No.: 292808

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	47.0	
68	Less than 2% of mass 69	0.0	(0.0) 1
69	Mass 69 Relative abundance	52.5	
70	Less than 2% of mass 69	0.2	(0.4) 1
127	10-80% of Base Peak	53.1	
197	Less than 2% of mass 198	0.0	
198	Base peak	100.0	
199	5-9% of mass 198	7.0	
275	10-60% of Base Peak	30.3	
365	Greater than 1% of mass 198	3.8	
441	present but less than 24% of mass 442	16.6	(16.5) 2
442	Greater than 50% of mass 198	100.3	
443	15-24% of mass 442	20.5	(20.4) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 410-292808/2	NI0071.D	09/06/2022	7:21
	MB 410-292631/1-A	NI0072.D	09/06/2022	7:48
	LCS 410-292631/2-A	NI0073.D	09/06/2022	8:09
FB-20220830	410-96269-1	NI0088.D	09/06/2022	13:35

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-96269-1

SDG No.:

Sample No.: ICIS 410-284284/2 Date Analyzed: 08/09/2022 15:22

Instrument ID: HP10623 GC Column: Rxi-.5SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): CH0901.D Heated Purge: (Y/N) N

Calibration ID: 41617

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		38160	4.28	149585	5.49	79978	7.15
UPPER LIMIT		76320	4.78	299170	5.99	159956	7.65
LOWER LIMIT		19080	3.78	74793	4.99	39989	6.65
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-284284/11		32774	4.28	129585	5.49	69010	7.14
CCVIS 410-295923/2		55993	4.15	209673	5.37	106680	7.03

DCBd4 = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270E SIM

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-96269-1

SDG No.:

Sample No.: ICIS 410-284284/2 Date Analyzed: 08/09/2022 15:22

Instrument ID: HP10623 GC Column: Rxi-.5SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): CH0901.D Heated Purge: (Y/N) N

Calibration ID: 41617

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		153882	8.55	134512	11.25	123849	13.23
UPPER LIMIT		307764	9.05	269024	11.75	247698	13.73
LOWER LIMIT		76941	8.05	67256	10.75	61925	12.73
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-284284/11		132785	8.55	112848	11.25	98886	13.23
CCVIS 410-295923/2		192870	8.44	155773	11.11	153212	13.05

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270E SIM

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-96269-1

SDG No.:

Sample No.: CCVIS 410-295923/2 Date Analyzed: 09/14/2022 16:06

Instrument ID: HP10623 GC Column: Rxi-.5SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): CI0601.D Heated Purge: (Y/N) N

Calibration ID: 41617

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		55993	4.15	209673	5.37	106680	7.03
UPPER LIMIT		111986	4.65	419346	5.87	213360	7.53
LOWER LIMIT		27997	3.65	104837	4.87	53340	6.53
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 410-295384/1-A		52854	4.16	198599	5.37	101017	7.03
LCS 410-295384/2-A		50463	4.15	184506	5.37	94918	7.03
410-96269-2	Import-6-20220830	53108	4.15	199621	5.37	101799	7.03

DCBd4 = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270E SIM

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-96269-1

SDG No.:

Sample No.: CCVIS 410-295923/2 Date Analyzed: 09/14/2022 16:06

Instrument ID: HP10623 GC Column: Rxi-.5SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): CI0601.D Heated Purge: (Y/N) N

Calibration ID: 41617

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		192870	8.44	155773	11.11	153212	13.05
UPPER LIMIT		385740	8.94	311546	11.61	306424	13.55
LOWER LIMIT		96435	7.94	77887	10.61	76606	12.55
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 410-295384/1-A		185589	8.44	147001	11.11	141947	13.05
LCS 410-295384/2-A		169085	8.43	136994	11.11	125703	13.05
410-96269-2	Import-6-20220830	188373	8.43	152823	11.11	149245	13.04

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270E SIM

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-96269-1

SDG No.:

Sample No.: ICIS 410-250058/2 Date Analyzed: 04/29/2022 14:59

Instrument ID: HP23263 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): ND1401.D Heated Purge: (Y/N) N

Calibration ID: 37561

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		75428	4.51	246992	5.71	113531	7.36
UPPER LIMIT		150856	5.01	493984	6.21	227062	7.86
LOWER LIMIT		37714	4.01	123496	5.21	56766	6.86
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-250058/9		83289	4.51	265335	5.71	121689	7.37
CCVIS 410-292808/2		54336	4.34	187039	5.57	88259	7.24

DCBd4 = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270E SIM

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-96269-1

SDG No.:

Sample No.: ICIS 410-250058/2 Date Analyzed: 04/29/2022 14:59

Instrument ID: HP23263 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): ND1401.D Heated Purge: (Y/N) N

Calibration ID: 37561

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		179500	8.77	121833	11.43	122702	13.38
UPPER LIMIT		359000	9.27	243666	11.93	245404	13.88
LOWER LIMIT		89750	8.27	60917	10.93	61351	12.88
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-250058/9		202939	8.77	133914	11.43	119885	13.38
CCVIS 410-292808/2		153879	8.65	116486	11.25	127030	13.11

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270E SIM

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-96269-1

SDG No.:

Sample No.: CCVIS 410-292808/2 Date Analyzed: 09/06/2022 07:21

Instrument ID: HP23263 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): NI0071.D Heated Purge: (Y/N) N

Calibration ID: 37561

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		54336	4.34	187039	5.57	88259	7.24
UPPER LIMIT		108672	4.84	374078	6.07	176518	7.74
LOWER LIMIT		27168	3.84	93520	5.07	44130	6.74
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 410-292631/1-A		49463	4.34	165467	5.57	79388	7.24
LCS 410-292631/2-A		52564	4.34	169121	5.57	82389	7.24
410-96269-1	FB-20220830	50513	4.34	168279	5.57	76588	7.24

DCBd4 = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270E SIM

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-96269-1

SDG No.:

Sample No.: CCVIS 410-292808/2 Date Analyzed: 09/06/2022 07:21

Instrument ID: HP23263 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): NI0071.D Heated Purge: (Y/N) N

Calibration ID: 37561

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		153879	8.65	116486	11.25	127030	13.11
UPPER LIMIT		307758	9.15	232972	11.75	254060	13.61
LOWER LIMIT		76940	8.15	58243	10.75	63515	12.61
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 410-292631/1-A		131088	8.65	97676	11.25	105054	13.11
LCS 410-292631/2-A		140610	8.65	96370	11.25	103973	13.11
410-96269-1	FB-20220830	128102	8.65	90835	11.25	97909	13.12

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270E SIM

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-96269-1

SDG No.:

Client Sample ID: FB-20220830 Lab Sample ID: 410-96269-1

Matrix: Water Lab File ID: NI0088.D

Analysis Method: 8270E SIM Date Collected: 08/30/2022 14:33

Extract. Method: 3510C Date Extracted: 09/03/2022 10:17

Sample wt/vol: 242.4(mL) Date Analyzed: 09/06/2022 13:35

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor: Level: (low/med) Low

Analysis Batch No.: 292808 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		0.31	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	89		10-110
93951-69-0	Fluoranthene-d10 (Surr)	83		47-128
38072-94-5	1-Methylnaphthalene-d10 (Surr)	77		36-111

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20220906-65655.b\NI0088.D				
Lims ID:	410-96269-B-1-A				
Client ID:	FB-20220830				
Sample Type:	Client				
Inject. Date:	06-Sep-2022 13:35:30	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-96269-B-1-A				
Misc. Info.:	410-0065655-019				
Operator ID:	jmg00346	Instrument ID:	HP23263		
Method:	\\chromfs\Lancaster\ChromData\HP23263\20220906-65655.b\8270_SIM_HP23263.m				
Limit Group:	MSSV - 8270D_E SIM				
Last Update:	06-Sep-2022 16:42:18	Calib Date:	29-Apr-2022 17:03:30		
Integrator:	Falcon	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP23263\20220429-56077.b\ND1406.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1660				
First Level Reviewer: SJ89		Date:	06-Sep-2022 16:40:34		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	4.342	4.342	0.000	97	50513	0.2500	
* 5 Naphthalene-d8	136	5.567	5.567	0.000	100	168279	0.2500	
$ 9 1-Methylnaphthalene-d10	152	6.304	6.304	0.000	99	70253	0.1915	
* 13 Acenaphthene-d10	164	7.236	7.236	0.000	96	76588	0.2500	
* 20 Phenanthrene-d10	188	8.645	8.645	0.000	100	128102	0.2500	
$ 24 Fluoranthene-d10 (Surr)	212	9.779	9.780	0.000	98	107308	0.2069	
* 29 Chrysene-d12	240	11.249	11.249	0.000	81	90835	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.006	13.006	0.000	98	82621	0.2234	
* 38 Perylene-d12	264	13.121	13.113	0.008	96	97909	0.2500	

QC Flag Legend

Processing Flags

Reagents:

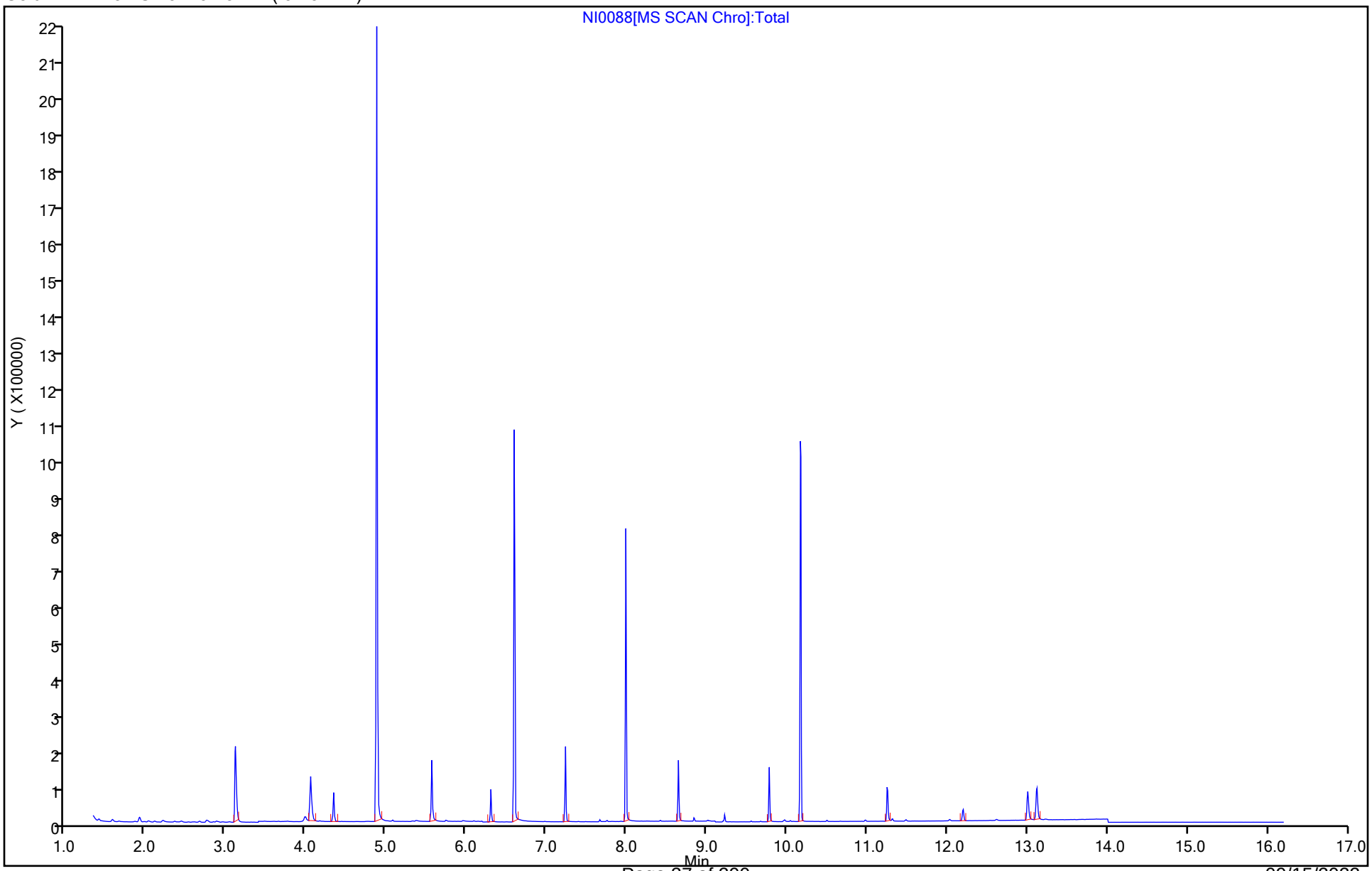
MSS_RVSIM_IS_00031 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 06-Sep-2022 16:42:53 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20220906-65655.b\NI0088.D				
Injection Date:	06-Sep-2022 13:35:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	410-96269-B-1-A	Lab Sample ID:	410-96269-1	Worklist Smp#:	19
Client ID:	FB-20220830				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20220906-65655.b\NI0088.D				
Lims ID:	410-96269-B-1-A				
Client ID:	FB-20220830				
Sample Type:	Client				
Inject. Date:	06-Sep-2022 13:35:30	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-96269-B-1-A				
Misc. Info.:	410-0065655-019				
Operator ID:	jmg00346	Instrument ID:	HP23263		
Method:	\\chromfs\Lancaster\ChromData\HP23263\20220906-65655.b\8270_SIM_HP23263.m				
Limit Group:	MSSV - 8270D_E SIM				
Last Update:	06-Sep-2022 16:42:18	Calib Date:	29-Apr-2022 17:03:30		
Integrator:	Falcon	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP23263\20220429-56077.b\ND1406.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1660				

First Level Reviewer: SJ89 Date: 06-Sep-2022 16:40:34

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1-Methylnaphthalene-d10	0.2500	0.1915	76.61
$ 24 Fluoranthene-d10 (Surr)	0.2500	0.2069	82.75
$ 36 Benzo(a)pyrene-d12 (Surr)	0.2500	0.2234	89.35

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-96269-1

SDG No.:

Client Sample ID: Import-6-20220830 Lab Sample ID: 410-96269-2

Matrix: Solid Lab File ID: CI0604.D

Analysis Method: 8270E SIM Date Collected: 08/30/2022 14:20

Extract. Method: 3546 Date Extracted: 09/13/2022 18:30

Sample wt/vol: 30.04(g) Date Analyzed: 09/14/2022 17:49

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: Rxi-.5SilMS 30m ID: 0.25(mm)

% Moisture: 4.5 % Solids: 95.5 GPC Cleanup:(Y/N) N

Cleanup Factor: Level: (low/med) Low

Analysis Batch No.: 295923 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		3.1	1.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	83		19-133
93951-69-0	Fluoranthene-d10 (Surr)	77		22-152
38072-94-5	1-Methylnaphthalene-d10 (Surr)	76		26-123

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP10623\20220914-66354.b\CI0604.D
Lims ID: 410-96269-B-2-A
Client ID: Import-6-20220830
Sample Type: Client
Inject. Date: 14-Sep-2022 17:49:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-96269-B-2-A
Misc. Info.: 410-0066354-005
Operator ID: kel10217 Instrument ID: HP10623

Method: \\chromfs\Lancaster\ChromData\HP10623\20220914-66354.b\8270_SIM_HP10623.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 14-Sep-2022 22:11:14 Calib Date: 09-Aug-2022 17:46:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP10623\20220809-63751.b\CH0907.D

Column 1 : Rxi-.5SilMS 30m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1630

First Level Reviewer: SJ89 Date: 14-Sep-2022 21:06:38

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	4.154	4.154	0.000	80	53108	1.00	
* 5 Naphthalene-d8	136	5.374	5.374	0.000	51	199621	1.00	
$ 9 1-Methylnaphthalene-d10	152	6.104	6.110	-0.006	76	76372	0.7612	
* 13 Acenaphthene-d10	164	7.034	7.034	0.000	84	101799	1.00	
* 20 Phenanthrene-d10	188	8.431	8.438	-0.007	96	188373	1.00	
$ 24 Fluoranthene-d10 (Surr)	212	9.561	9.566	-0.005	77	154807	0.7671	
* 29 Chrysene-d12	240	11.112	11.111	0.001	91	152823	1.00	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	12.930	12.930	0.000	100	114592	0.8273	
* 38 Perylene-d12	264	13.043	13.050	-0.007	100	149245	1.00	

QC Flag Legend
Processing Flags

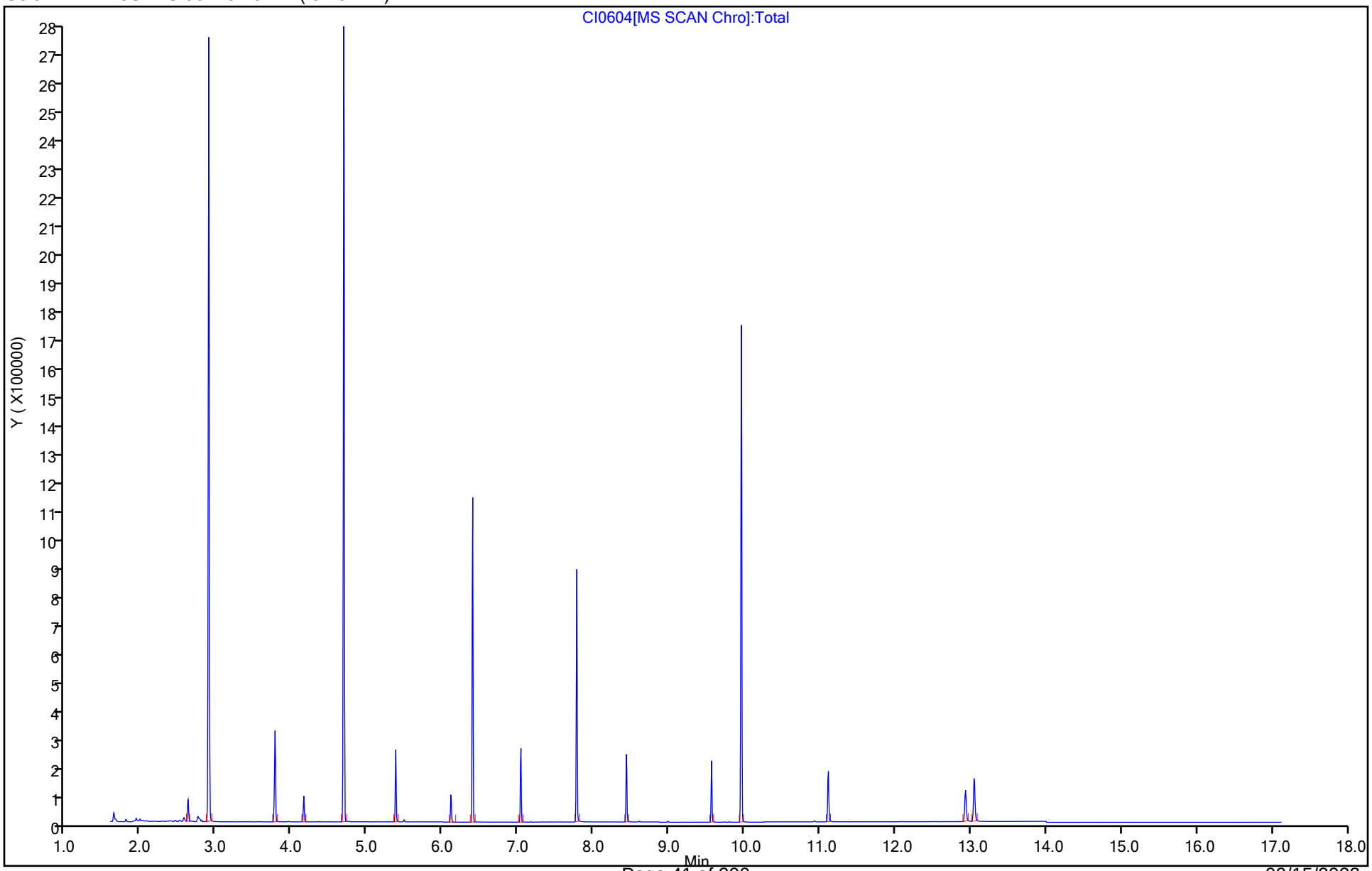
Reagents:
MSS_FVSIM_IS_00016 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 14-Sep-2022 22:11:21 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP10623\20220914-66354.b\CI0604.D				
Injection Date:	14-Sep-2022 17:49:30	Instrument ID:	HP10623	Operator ID:	kel10217
Lims ID:	410-96269-B-2-A	Lab Sample ID:	410-96269-2	Worklist Smp#:	5
Client ID:	Import-6-20220830				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8270_SIM_HP10623	Limit Group:	MSSV - 8270D_E SIM		

Column: Rxi-.5SilMS 30m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\HP10623\20220914-66354.b\CI0604.D				
Lims ID:	410-96269-B-2-A				
Client ID:	Import-6-20220830				
Sample Type:	Client				
Inject. Date:	14-Sep-2022 17:49:30	ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-96269-B-2-A				
Misc. Info.:	410-0066354-005				
Operator ID:	kel10217	Instrument ID:	HP10623		
Method:	\\chromfs\Lancaster\ChromData\HP10623\20220914-66354.b\8270_SIM_HP10623.m				
Limit Group:	MSSV - 8270D_E SIM				
Last Update:	14-Sep-2022 22:11:14	Calib Date:	09-Aug-2022 17:46:30		
Integrator:	Falcon	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP10623\20220809-63751.b\CH0907.D				
Column 1 :	Rxi-.5SilMS 30m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1630				

First Level Reviewer: SJ89 Date: 14-Sep-2022 21:06:38

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1-Methylnaphthalene-d10	1.00	0.7612	76.12
$ 24 Fluoranthene-d10 (Surr)	1.00	0.7671	76.71
$ 36 Benzo(a)pyrene-d12 (Surr)	1.00	0.8273	82.73

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-96269-1 Analy Batch No.: 284284

SDG No.:

Instrument ID: HP10623 GC Column: Rxi-.5SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/09/2022 15:22 Calibration End Date: 08/09/2022 17:46 Calibration ID: 41617

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-284284/8	CH0907.D
Level 2	IC 410-284284/7	CH0906.D
Level 3	IC 410-284284/6	CH0905.D
Level 4	ICIS 410-284284/2	CH0901.D
Level 5	IC 410-284284/5	CH0904.D
Level 6	IC 410-284284/4	CH0903.D
Level 7	IC 410-284284/3	CH0902.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,4-Dioxane	+++++ 0.5331	0.5265 0.5221	0.5361	0.5231	0.5176	Ave		0.5264				1.3		20.4			
N-Nitrosodimethylamine	0.4916 0.6814	0.5787 0.6761	0.6464	0.6518	0.6475	Ave		0.6248				10.8		20.4			
Bis(2-chloroethyl)ether	0.2918 0.3181	0.3064 0.3076	0.3230	0.3161	0.3175	Ave		0.3115				3.4		20.4			
Naphthalene	0.8862 1.0831	1.0112 1.0359	1.0808	1.0784	1.0782	Ave		1.0363				6.9		20.4			
Quinoline	0.6199 0.7168	0.6416 0.6916	0.6883	0.7056	0.6979	Ave		0.6802				5.2		20.4			
2-Methylnaphthalene	0.5518 0.7189	0.6460 0.6882	0.6959	0.6967	0.7025	Ave		0.6714				8.5		20.4			
1-Methylnaphthalene	0.5449 0.6693	0.6059 0.6397	0.6478	0.6498	0.6547	Ave		0.6303				6.7		20.4			
Dimethyl phthalate	1.2973 1.4636	1.3142 1.4363	1.3832	1.4263	1.4000	Ave		1.3887				4.5		20.4			
Acenaphthylene	1.6894 2.0746	1.8648 2.0502	1.9592	1.9933	2.0068	Ave		1.9483				6.8		20.4			
Acenaphthene	1.0348 1.2617	1.1461 1.2289	1.2147	1.2304	1.2369	Ave		1.1934				6.6		20.4			
Dibenzofuran	1.6432 1.8766	1.7445 1.8233	1.8424	1.8172	1.8357	Ave		1.7976				4.4		20.4			
Diethyl phthalate	1.3703 1.5281	1.3177 1.4738	1.3777	1.4527	1.4285	Ave		1.4212				5.0		20.4			
Fluorene	1.3181 1.5150	1.3578 1.4632	1.4367	1.4592	1.4675	Ave		1.4311				4.8		20.4			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-96269-1 Analy Batch No.: 284284

SDG No.:

Instrument ID: HP10623 GC Column: Rxi-.5SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/09/2022 15:22 Calibration End Date: 08/09/2022 17:46 Calibration ID: 41617

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
N-Nitrosodiphenylamine	0.5344 0.4175	0.5112 0.4053	0.5309	0.5212	0.5029	Ave		0.4891				11.1		20.4			
Hexachlorobenzene	0.1975 0.1946	0.1849 0.1936	0.1933	0.1864	0.1921	Ave		0.1918				2.4		20.4			
Phenanthrene	1.1024 1.1877	1.1136 1.1717	1.1543	1.1561	1.1620	Ave		1.1497				2.7		20.4			
Anthracene	1.0224 1.1868	1.0460 1.1786	1.0970	1.1293	1.1381	Ave		1.1140				5.6		20.4			
Di-n-butyl phthalate	0.9621 1.2624	0.9146 1.2923	0.9792	1.1732	1.0835	Ave		1.0953				13.8		20.4			
Fluoranthene	1.2061 1.3464	1.1816 1.3426	1.2564	1.2852	1.3094	Ave		1.2754				5.0		20.4			
Pyrene	1.4946 1.5636	1.4659 1.5107	1.5244	1.5266	1.5307	Ave		1.5166				2.0		20.4			
Butyl benzyl phthalate	0.2674 0.4147	0.2289 +++++	0.2421	0.3472	0.2742	Qua1	0	0.2713	0.0286049						0.9970		0.9900
Benzo[a]anthracene	1.4846 1.3987	1.2719 1.3854	1.3158	1.3541	1.3413	Ave		1.3645				5.0		20.4			
Chrysene	1.4152 1.4282	1.3542 1.4013	1.3991	1.3784	1.4181	Ave		1.3992				1.8		20.4			
Bis(2-ethylhexyl) phthalate	0.3531 0.7248	0.3399 +++++	0.3877	0.5626	0.4918	Qua1	-0.002	0.4632	0.0523568						0.9980		0.9900
Di-n-octyl phthalate	0.4661 1.2382	0.4776 +++++	0.5403	0.8721	0.7022	Qua1	-0.003	0.6495	0.1176742						0.9970		0.9900
Benzo[b]fluoranthene	1.2103 1.5115	1.2231 1.4067	1.3005	1.3282	1.3875	Ave		1.3382				8.0		20.4			
Benzo[k]fluoranthene	1.1853 1.5934	1.2416 1.5217	1.3593	1.4187	1.4367	Ave		1.3938				10.4		20.4			
Benzo[e]pyrene	1.2353 1.4131	1.2071 1.3359	1.2665	1.2885	1.3151	Ave		1.2945				5.3		20.4			
Benzo[a]pyrene	1.0582 1.4354	1.0986 1.3557	1.2178	1.2707	1.2997	Ave		1.2480				10.8		20.4			
Perylene	1.2023 1.4053	1.2378 1.3248	1.2984	1.2735	1.3004	Ave		1.2918				5.0		20.4			
Indeno[1,2,3-cd]pyrene	0.8072 1.1762	0.8276 1.1689	0.9265	1.0225	1.0284	Ave		0.9939				15.0		20.4			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-96269-1 Analy Batch No.: 284284

SDG No.:

Instrument ID: HP10623 GC Column: Rxi-.5SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/09/2022 15:22 Calibration End Date: 08/09/2022 17:46 Calibration ID: 41617

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dibenz(a,h)anthracene	+++++ 1.3535	0.8989 1.3125	1.0750	1.1661	1.1913	Ave		1.1662				14.2		20.4			
Benzo[g,h,i]perylene	0.9882 1.3821	1.1045 1.3223	1.1797	1.2136	1.2441	Ave		1.2049				11.0		20.4			
1-Methylnaphthalene-d10 (Surr)	0.4473 0.5267	0.4922 0.5042	0.5164	0.5142	0.5170	Ave		0.5026				5.3		20.4			
Fluoranthene-d10 (Surr)	1.0086 1.1301	1.0044 1.1358	1.0515	1.0787	1.0897	Ave		1.0713				4.9		20.4			
Benzo(a)pyrene-d12 (Surr)	0.8022 1.0822	0.7992 1.0270	0.8805	0.9447	0.9605	Ave		0.9280				11.6		20.4			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-96269-1 Analy Batch No.: 284284

SDG No.:

Instrument ID: HP10623 GC Column: Rxi-.5SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/09/2022 15:22 Calibration End Date: 08/09/2022 17:46 Calibration ID: 41617

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-284284/8	CH0907.D
Level 2	IC 410-284284/7	CH0906.D
Level 3	IC 410-284284/6	CH0905.D
Level 4	ICIS 410-284284/2	CH0901.D
Level 5	IC 410-284284/5	CH0904.D
Level 6	IC 410-284284/4	CH0903.D
Level 7	IC 410-284284/3	CH0902.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,4-Dioxane	DCBd 4	Ave	+++++ 91056	887 171332	3498	9980	17215	+++++ 5.00	0.0500 10.0	0.200	0.500	1.00
N-Nitrosodimethylamine	DCBd 4	Ave	164 116392	975 221857	4218	12437	21536	0.0100 5.00	0.0500 10.0	0.200	0.500	1.00
Bis(2-chloroethyl)ether	NPT	Ave	377 221432	2010 417894	8218	23642	41551	0.0100 5.00	0.0500 10.0	0.200	0.500	1.00
Naphthalene	NPT	Ave	1145 754016	6634 1407502	27497	80658	141117	0.0100 5.00	0.0500 10.0	0.200	0.500	1.00
Quinoline	NPT	Ave	801 498959	4209 939719	17513	52772	91337	0.0100 5.00	0.0500 10.0	0.200	0.500	1.00
2-Methylnaphthalene	NPT	Ave	713 500450	4238 935025	17704	52111	91935	0.0100 5.00	0.0500 10.0	0.200	0.500	1.00
1-Methylnaphthalene	NPT	Ave	704 465923	3975 869196	16481	48598	85686	0.0100 5.00	0.0500 10.0	0.200	0.500	1.00
Dimethyl phthalate	ANT	Ave	870 549033	4489 1018327	18678	57038	97452	0.0100 5.00	0.0500 10.0	0.200	0.500	1.00
Acenaphthylene	ANT	Ave	1133 778230	6370 1453580	26456	79710	139688	0.0100 5.00	0.0500 10.0	0.200	0.500	1.00
Acenaphthene	ANT	Ave	694 473282	3915 871317	16403	49204	86096	0.0100 5.00	0.0500 10.0	0.200	0.500	1.00
Dibenzofuran	ANT	Ave	1102 703947	5959 1292753	24878	72669	127777	0.0100 5.00	0.0500 10.0	0.200	0.500	1.00
Diethyl phthalate	ANT	Ave	919 573225	4501 1044913	18603	58093	99432	0.0100 5.00	0.0500 10.0	0.200	0.500	1.00
Fluorene	ANT	Ave	884	4638	19400	58350	102150	0.0100	0.0500	0.200	0.500	1.00

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-96269-1 Analy Batch No.: 284284

SDG No.:

Instrument ID: HP10623 GC Column: Rxi-.5SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/09/2022 15:22 Calibration End Date: 08/09/2022 17:46 Calibration ID: 41617

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
			568325	1037425				5.00	10.0			
N-Nitrosodiphenylamine	PHN	Ave	701 304707	3375 541257	13885	40103	67475	0.0100 5.00	0.0500 10.0	0.200	0.500	1.00
Hexachlorobenzene	PHN	Ave	259 142055	1221 258555	5055	14338	25772	0.0100 5.00	0.0500 10.0	0.200	0.500	1.00
Phenanthrene	PHN	Ave	1446 866884	7352 1564732	30192	88949	155904	0.0100 5.00	0.0500 10.0	0.200	0.500	1.00
Anthracene	PHN	Ave	1341 866233	6906 1573941	28692	86888	152690	0.0100 5.00	0.0500 10.0	0.200	0.500	1.00
Di-n-butyl phthalate	PHN	Ave	1262 921392	6038 1725779	25613	90269	145366	0.0100 5.00	0.0500 10.0	0.200	0.500	1.00
Fluoranthene	PHN	Ave	1582 982731	7801 1792946	32861	98888	175675	0.0100 5.00	0.0500 10.0	0.200	0.500	1.00
Pyrene	CRY	Ave	1638 1016309	8151 1854077	33896	102674	180198	0.0100 5.00	0.0500 10.0	0.200	0.500	1.00
Butyl benzyl phthalate	CRY	Qual	293 269513	1273 +++++	5384	23351	32282	0.0100 5.00	0.0500 +++++	0.200	0.500	1.00
Benzo[a]anthracene	CRY	Ave	1627 909123	7072 1700333	29259	91073	157899	0.0100 5.00	0.0500 10.0	0.200	0.500	1.00
Chrysene	CRY	Ave	1551 928252	7530 1719883	31111	92707	166948	0.0100 5.00	0.0500 10.0	0.200	0.500	1.00
Bis(2-ethylhexyl) phthalate	CRY	Qual	387 471068	1890 +++++	8621	37836	57894	0.0100 5.00	0.0500 +++++	0.200	0.500	1.00
Di-n-octyl phthalate	PRY	Qual	466 696239	2425 +++++	11108	54005	75055	0.0100 5.00	0.0500 +++++	0.200	0.500	1.00
Benzo[b]fluoranthene	PRY	Ave	1210 849918	6210 1602459	26737	82247	148300	0.0100 5.00	0.0500 10.0	0.200	0.500	1.00
Benzo[k]fluoranthene	PRY	Ave	1185 895955	6304 1733431	27946	87850	153555	0.0100 5.00	0.0500 10.0	0.200	0.500	1.00
Benzo[e]pyrene	PRY	Ave	1235 794582	6129 1521752	26038	79789	140562	0.0100 5.00	0.0500 10.0	0.200	0.500	1.00
Benzo[a]pyrene	PRY	Ave	1058 807148	5578 1544332	25036	78685	138913	0.0100 5.00	0.0500 10.0	0.200	0.500	1.00
Perylene	PRY	Ave	1202 790196	6285 1509097	26694	78859	138993	0.0100 5.00	0.0500 10.0	0.200	0.500	1.00
Indeno[1,2,3-cd]pyrene	PRY	Ave	807	4202	19047	63319	109917	0.0100	0.0500	0.200	0.500	1.00

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-96269-1 Analy Batch No.: 284284

SDG No.:

Instrument ID: HP10623 GC Column: Rxi-.5SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/09/2022 15:22 Calibration End Date: 08/09/2022 17:46 Calibration ID: 41617

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
			661362	1331542				5.00	10.0			
Dibenz(a,h)anthracene	PRY	Ave	+++++ 761064	4564 1495095	22100	72210	127325	+++++ 5.00	0.0500 10.0	0.200	0.500	1.00
Benzo[g,h,i]perylene	PRY	Ave	988 777142	5608 1506283	24254	75154	132975	0.0100 5.00	0.0500 10.0	0.200	0.500	1.00
1-Methylnaphthalene-d10 (Surr)	NPT	Ave	578 366685	3229 685027	13139	38462	67661	0.0100 5.00	0.0500 10.0	0.200	0.500	1.00
Fluoranthene-d10 (Surr)	PHN	Ave	1323 824828	6631 1516687	27504	82996	146207	0.0100 5.00	0.0500 10.0	0.200	0.500	1.00
Benzo(a)pyrene-d12 (Surr)	PRY	Ave	802 608520	4058 1169888	18103	58499	102655	0.0100 5.00	0.0500 10.0	0.200	0.500	1.00

Curve Type Legend
Ave = Average ISTD
Qua1 = Quadratic 1/conc ISTD

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-96269-1 Analy Batch No.: 284284

SDG No.:

Instrument ID: HP10623 GC Column: Rxi-.5SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/09/2022 15:22 Calibration End Date: 08/09/2022 17:46 Calibration ID: 41617

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-284284/8	CH0907.D
Level 2	IC 410-284284/7	CH0906.D
Level 3	IC 410-284284/6	CH0905.D
Level 4	ICIS 410-284284/2	CH0901.D
Level 5	IC 410-284284/5	CH0904.D
Level 6	IC 410-284284/4	CH0903.D
Level 7	IC 410-284284/3	CH0902.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Butyl benzyl phthalate	11.8 +++++	-13.3	-11.7	20.6	-7.8	0.1	50	30	30	30	30	30
Bis(2-ethylhexyl) phthalate	22.1 +++++	-17.8	-15.6	14.9	-3.8	0.0	50	30	30	30	30	30
Di-n-octyl phthalate	19.0 +++++	-17.6	-16.9	21.8	-7.1	0.1	50	30	30	30	30	30

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP10623\20220809-63751.b\CH0901.D
Lims ID: ICIS
Client ID:
Sample Type: ICIS Calib Level: 4
Inject. Date: 09-Aug-2022 15:22:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: ICIS
Misc. Info.: 410-0063751-002
Operator ID: apb10206 Instrument ID: HP10623
Sublist: chrom-8270_SIM_HP10623*sub4

Method: \\chromfs\Lancaster\ChromData\HP10623\20220809-63751.b\8270_SIM_HP10623.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 09-Aug-2022 19:35:23 Calib Date: 09-Aug-2022 17:46:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP10623\20220809-63751.b\CH0907.D

Column 1 : Rxi-.5SilMS 30m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1609

First Level Reviewer: SJ89 Date: 09-Aug-2022 16:15:17

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.797	1.797	0.000	90	9980	0.5000	0.4968	
2 N-Nitrosodimethylamine	74	1.990	1.990	0.000	86	12437	0.5000	0.5216	
3 Bis(2-chloroethyl)ether	93	4.012	4.012	0.000	89	23642	0.5000	0.5074	
* 4 1,4-Dichlorobenzene-d4	152	4.283	4.283	0.000	81	38160	1.00	1.00	
* 5 Naphthalene-d8	136	5.491	5.491	0.000	51	149585	1.00	1.00	
6 Naphthalene	128	5.510	5.510	0.000	97	80658	0.5000	0.5203	
7 Quinoline	129	5.826	5.826	0.000	0	52772	0.5000	0.5186	
8 2-Methylnaphthalene	142	6.162	6.162	0.000	71	52111	0.5000	0.5189	
$ 9 1-Methylnaphthalene-d10	152	6.220	6.220	0.000	76	38462	0.5000	0.5116	
10 1-Methylnaphthalene	142	6.259	6.259	0.000	66	48598	0.5000	0.5155	
11 Dimethyl phthalate	163	6.886	6.886	0.000	100	57038	0.5000	0.5136	
12 Acenaphthylene	152	7.015	7.015	0.000	74	79710	0.5000	0.5115	
* 13 Acenaphthene-d10	164	7.151	7.151	0.000	82	79978	1.00	1.00	
14 Acenaphthene	154	7.176	7.176	0.000	56	49204	0.5000	0.5155	
15 Dibenzofuran	168	7.340	7.340	0.000	97	72669	0.5000	0.5055	
16 Diethyl phthalate	149	7.548	7.548	0.000	67	58093	0.5000	0.5111	
17 Fluorene	166	7.661	7.661	0.000	90	58350	0.5000	0.5098	
18 N-Nitrosodiphenylamine	169	7.768	7.768	0.000	63	40103	0.5000	0.5329	
19 Hexachlorobenzene	284	8.177	8.177	0.000	96	14338	0.5000	0.4859	
* 20 Phenanthrene-d10	188	8.552	8.552	0.000	96	153882	1.00	1.00	
21 Phenanthrene	178	8.572	8.572	0.000	87	88949	0.5000	0.5028	
22 Anthracene	178	8.618	8.618	0.000	91	86888	0.5000	0.5068	
23 Di-n-butyl phthalate	149	9.095	9.095	0.000	80	90269	0.5000	0.5356	
$ 24 Fluoranthene-d10 (Surr)	212	9.675	9.675	0.000	77	82996	0.5000	0.5035	
25 Fluoranthene	202	9.697	9.697	0.000	99	98888	0.5000	0.5039	
26 Pyrene	202	9.919	9.919	0.000	100	102674	0.5000	0.5033	
27 Butyl benzyl phthalate	149	10.599	10.599	0.000	100	23351	0.5000	0.6030	
28 Benzo[a]anthracene	228	11.238	11.238	0.000	100	91073	0.5000	0.4962	
* 29 Chrysene-d12	240	11.252	11.252	0.000	96	134512	1.00	1.00	
30 Chrysene	228	11.287	11.287	0.000	100	92707	0.5000	0.4926	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	11.308	11.308	0.000	99	37836	0.5000	0.5746	
32 Di-n-octyl phthalate	149	12.186	12.186	0.000	100	54005	0.5000	0.6090	
33 Benzo[b]fluoranthene	252	12.671	12.671	0.000	100	82247	0.5000	0.4962	
34 Benzo[k]fluoranthene	252	12.713	12.713	0.000	100	87850	0.5000	0.5089	
35 Benzo[e]pyrene	252	13.071	13.071	0.000	100	79789	0.5000	0.4977	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.113	13.113	0.000	100	58499	0.5000	0.5090	a
37 Benzo[a]pyrene	252	13.148	13.148	0.000	100	78685	0.5000	0.5091	
* 38 Perylene-d12	264	13.225	13.225	0.000	100	123849	1.00	1.00	a
39 Perylene	252	13.268	13.268	0.000	99	78859	0.5000	0.4929	
40 Indeno[1,2,3-cd]pyrene	276	14.937	14.937	0.000	43	63319	0.5000	0.5144	a
41 Dibenz(a,h)anthracene	278	14.994	14.994	0.000	54	72210	0.5000	0.5000	
42 Benzo[g,h,i]perylene	276	15.432	15.432	0.000	98	75154	0.5000	0.5036	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

MSS_FVSIM_4_00016 Amount Added: 1.00 Units: mL

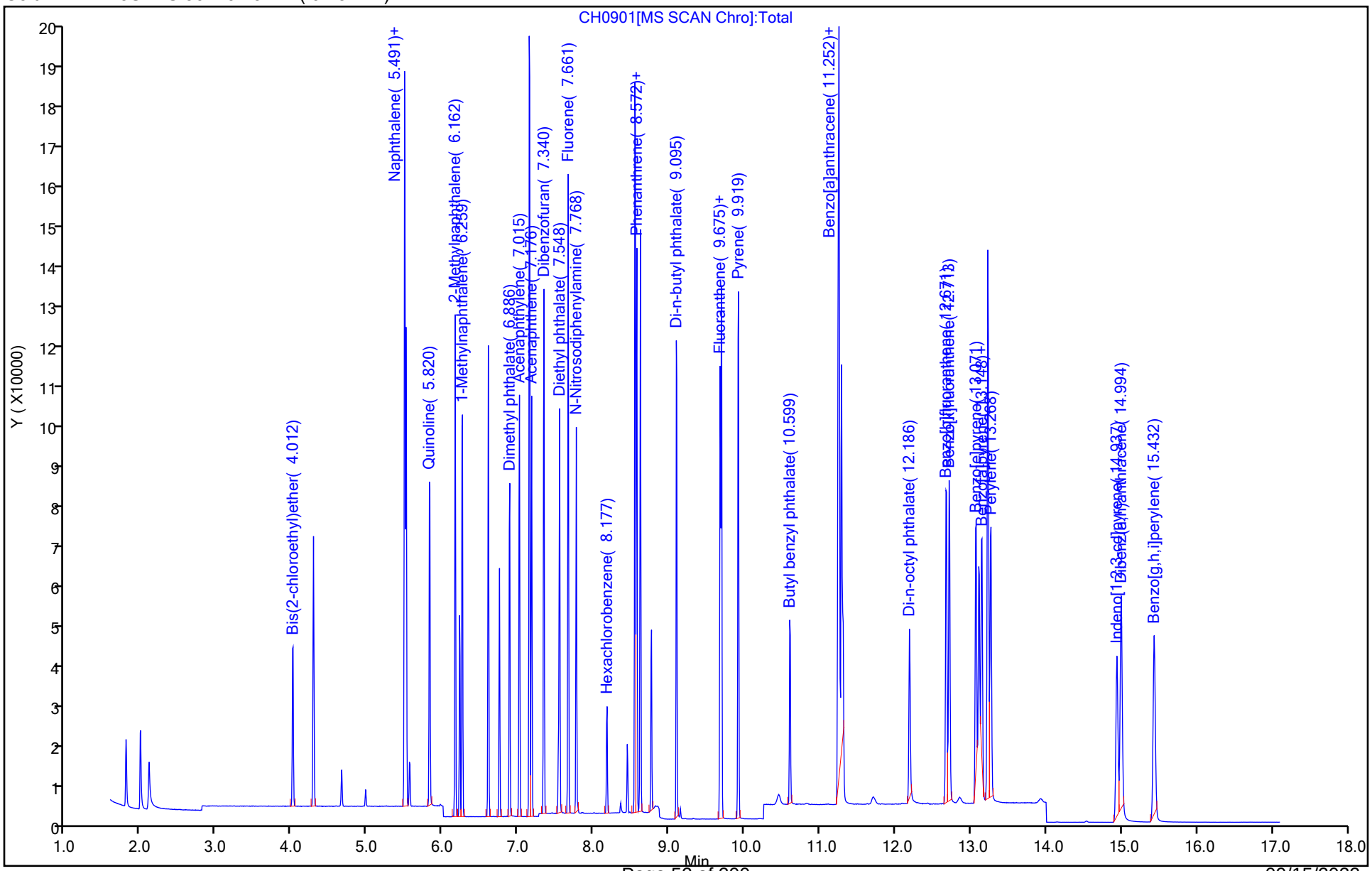
Report Date: 09-Aug-2022 19:35:24 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP10623\20220809-63751.b\CH0901.D

Injection Date:	09-Aug-2022 15:22:30	Instrument ID:	HP10623	Operator ID:	apb10206
Lims ID:	ICIS			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8270_SIM_HP10623	Limit Group:	MSSV - 8270D_E SIM		

Column: Rxi-.5SilMS 30m 0.25mm (0.25 mm)



Resolution Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP10623\20220809-63751.b\CH0901.D				
Injection Date:	09-Aug-2022 15:22:30	Instrument ID:	HP10623		
Lims ID:	ICIS				
Client ID:					
Operator ID:	apb10206	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP10623	Limit Group:	MSSV - 8270D_E SIM		

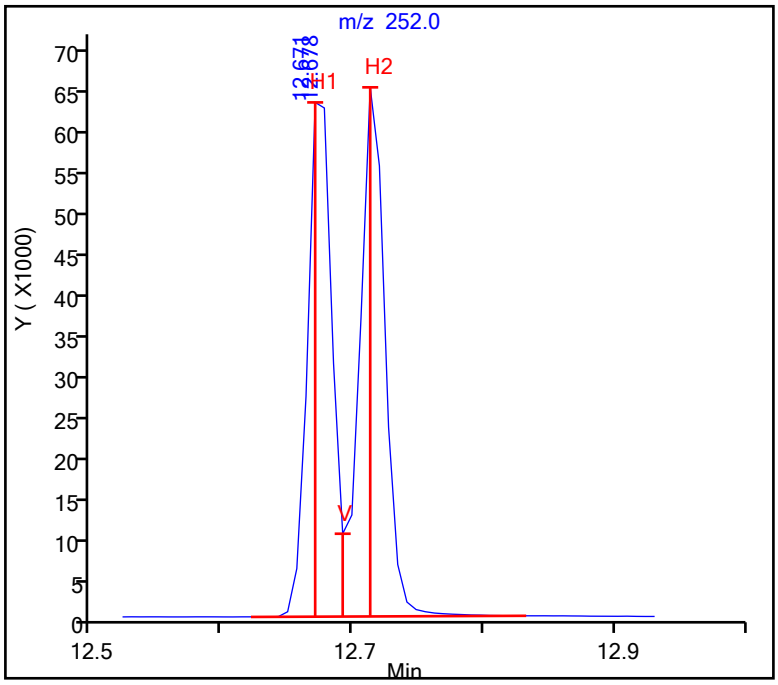
33 Benzo[b]fluoranthene - 34 Benzo[k]fluoranthene

SW-846 Method

Version D: %R = (V / ((H1 + H2)/2)) * 100

V (Valley Height) = 10158
H1(33 Benzo[b]fluoranthen) = 63072
H2(34 Benzo[k]fluoranthen) = 64892

Version D: %R = 15.9 <= 50.0
Passed



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

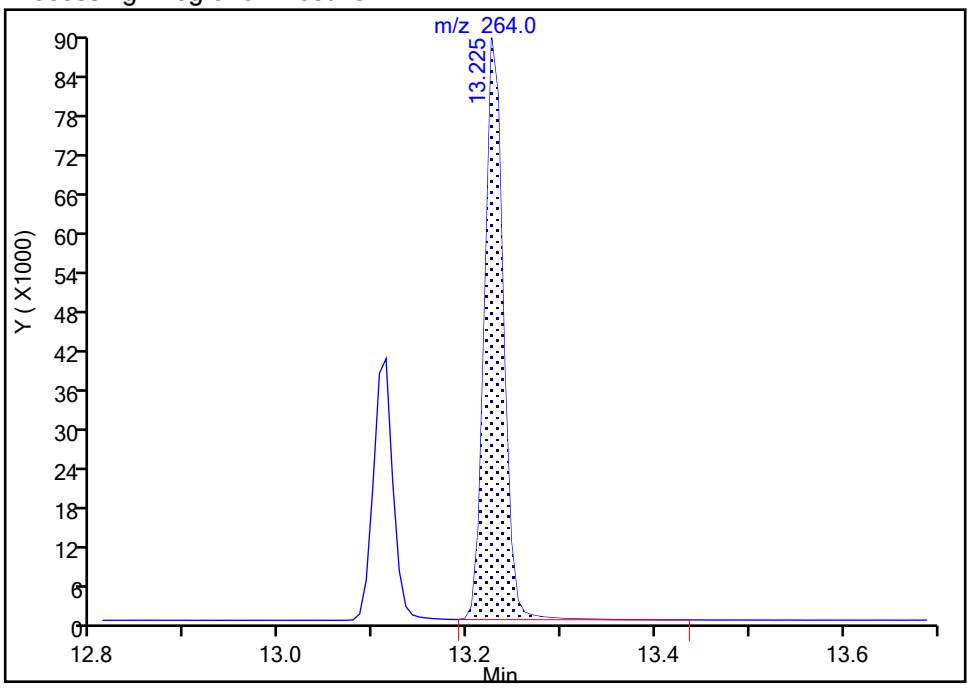
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Injection Date:	09-Aug-2022 15:22:30	Instrument ID:	HP10623		
Lims ID:	ICIS				
Client ID:					
Operator ID:	apb10206	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP10623	Limit Group:	MSSV - 8270D_E SIM		
Column:	Rxi-.5SilMS 30m 0.25mm (0.25 mm)	Detector	MS SCAN		

$ 36 Benzo(a)pyrene-d12 (Surr), CAS: 63466-71-7

Signal: 1

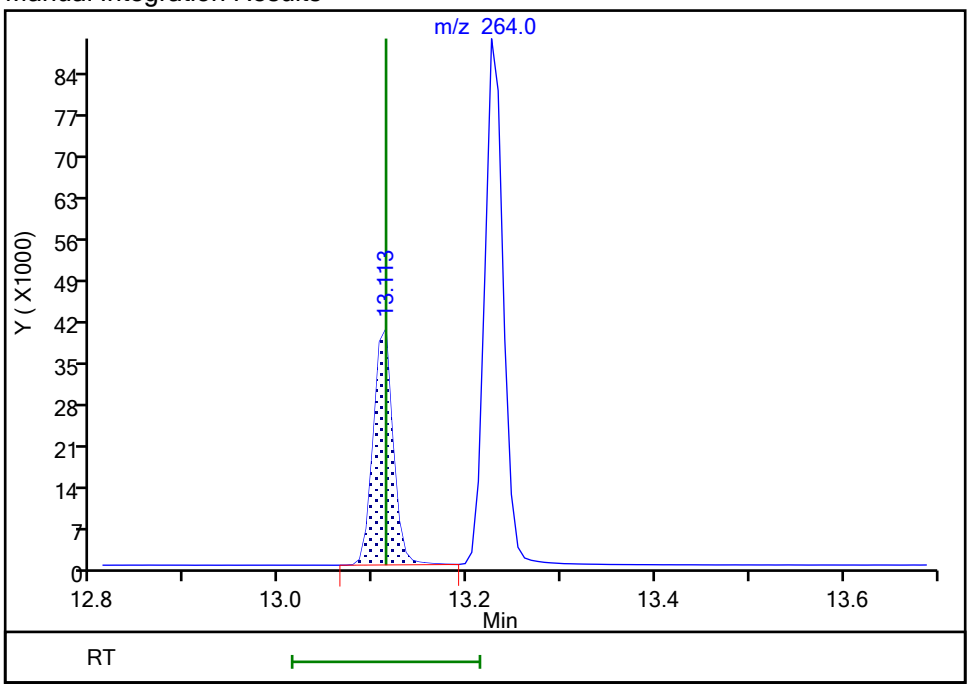
Processing Integration Results

RT: 13.23
Area: 123849
Amount: 0.013139
Amount Units: ug/ml



Manual Integration Results

RT: 13.11
Area: 58499
Amount: 0.508968
Amount Units: ug/ml



Reviewer: SJ89, 09-Aug-2022 18:20:35

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

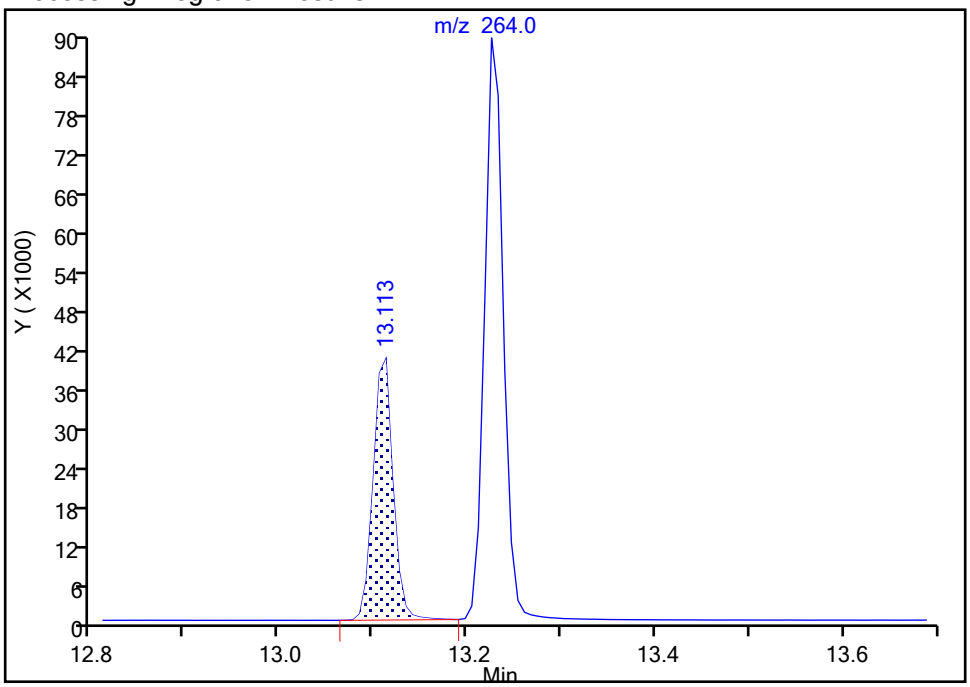
Data File:	\\chromfs\Lancaster\ChromData\HP10623\20220809-63751.b\CH0901.D				
Injection Date:	09-Aug-2022 15:22:30	Instrument ID:	HP10623		
Lims ID:	ICIS				
Client ID:					
Operator ID:	apb10206	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP10623	Limit Group:	MSSV - 8270D_E SIM		
Column:	Rxi-.5SilMS 30m 0.25mm (0.25 mm)	Detector	MS SCAN		

* 38 Perylene-d12, CAS: 1520-96-3

Signal: 1

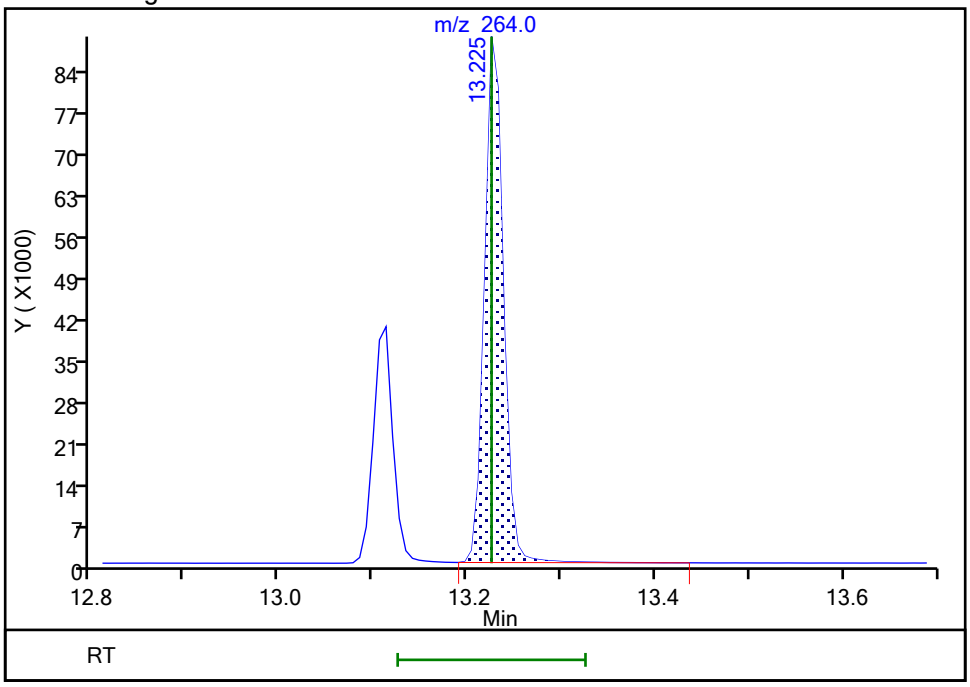
Processing Integration Results

RT: 13.11
Area: 58499
Amount: 1.000000
Amount Units: ug/ml



Manual Integration Results

RT: 13.23
Area: 123849
Amount: 1.000000
Amount Units: ug/ml



Reviewer: SJ89, 09-Aug-2022 18:20:30
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

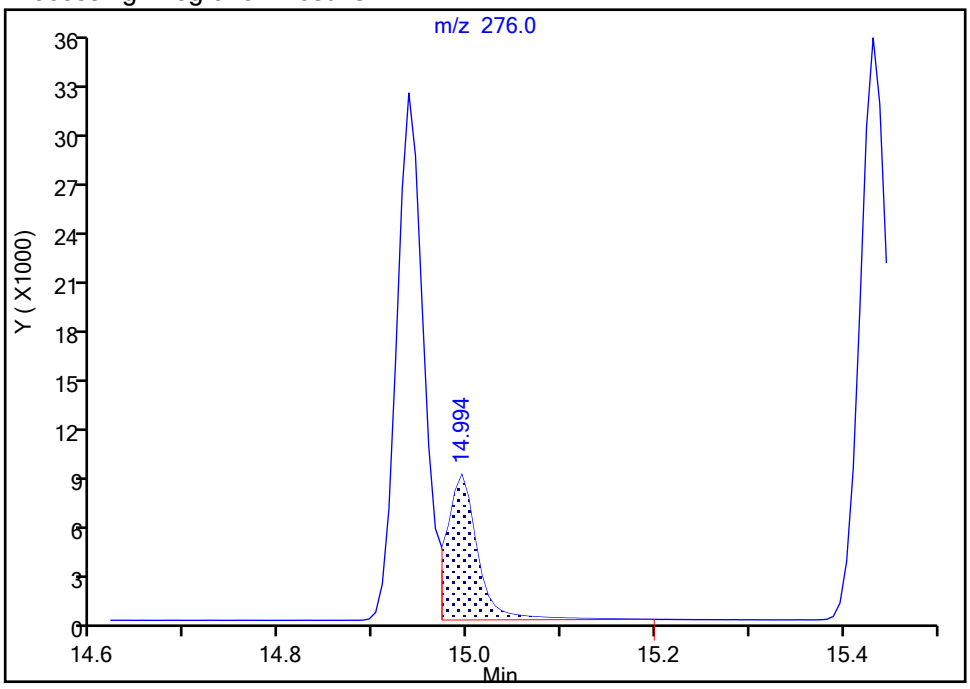
Data File:	\\chromfs\Lancaster\ChromData\HP10623\20220809-63751.b\CH0901.D				
Injection Date:	09-Aug-2022 15:22:30	Instrument ID:	HP10623		
Lims ID:	ICIS				
Client ID:					
Operator ID:	apb10206	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP10623	Limit Group:	MSSV - 8270D_E SIM		
Column:	Rxi-.5SilMS 30m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

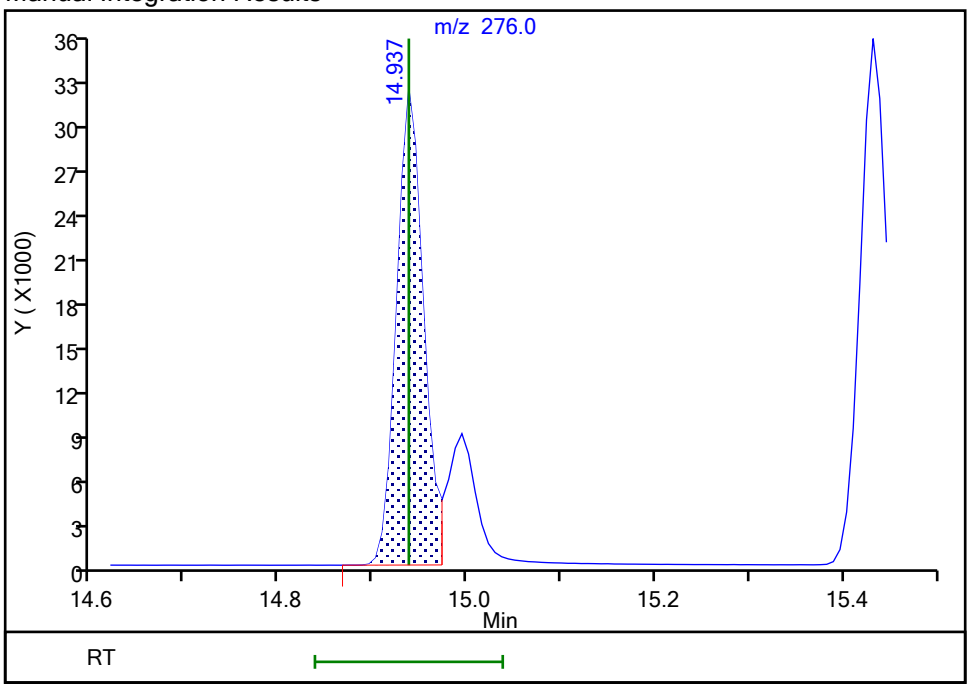
Processing Integration Results

RT: 14.99
Area: 19058
Amount: 0.500000
Amount Units: ug/ml



Manual Integration Results

RT: 14.94
Area: 63319
Amount: 0.514405
Amount Units: ug/ml



Reviewer: SJ89, 09-Aug-2022 16:07:21
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP10623\20220809-63751.b\CH0902.D
Lims ID: IC 7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 09-Aug-2022 15:50:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC 7
Misc. Info.: 410-0063751-003
Operator ID: apb10206 Instrument ID: HP10623
Sublist: chrom-8270_SIM_HP10623*sub4

Method: \\chromfs\Lancaster\ChromData\HP10623\20220809-63751.b\8270_SIM_HP10623.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 09-Aug-2022 19:35:25 Calib Date: 09-Aug-2022 17:46:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP10623\20220809-63751.b\CH0907.D

Column 1 : Rxi-.5SilMS 30m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1609

First Level Reviewer: SJ89 Date: 09-Aug-2022 16:18:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.780	1.797	-0.017	91	171332	10.0	9.92	
2 N-Nitrosodimethylamine	74	1.968	1.990	-0.022	82	221857	10.0	10.8	
3 Bis(2-chloroethyl)ether	93	4.006	4.012	-0.006	87	417894	10.0	9.87	
* 4 1,4-Dichlorobenzene-d4	152	4.277	4.283	-0.006	83	32815	1.00	1.00	
* 5 Naphthalene-d8	136	5.491	5.491	0.000	51	135870	1.00	1.00	
6 Naphthalene	128	5.510	5.510	0.000	97	1407502	10.0	10.0	
7 Quinoline	129	5.820	5.826	-0.006	0	939719	10.0	10.2	
8 2-Methylnaphthalene	142	6.162	6.162	0.000	71	935025	10.0	10.2	
$ 9 1-Methylnaphthalene-d10	152	6.220	6.220	0.000	76	685027	10.0	10.0	
10 1-Methylnaphthalene	142	6.252	6.259	-0.007	68	869196	10.0	10.1	
11 Dimethyl phthalate	163	6.886	6.886	0.000	100	1018327	10.0	10.3	
12 Acenaphthylene	152	7.015	7.015	0.000	74	1453580	10.0	10.5	
* 13 Acenaphthene-d10	164	7.144	7.151	-0.006	89	70901	1.00	1.00	
14 Acenaphthene	154	7.176	7.176	0.000	56	871317	10.0	10.3	
15 Dibenzofuran	168	7.340	7.340	0.000	97	1292753	10.0	10.1	
16 Diethyl phthalate	149	7.548	7.548	0.000	66	1044913	10.0	10.4	
17 Fluorene	166	7.661	7.661	0.000	90	1037425	10.0	10.2	
18 N-Nitrosodiphenylamine	169	7.768	7.768	0.000	63	541257	10.0	8.29	
19 Hexachlorobenzene	284	8.177	8.177	0.000	95	258555	10.0	10.1	
* 20 Phenanthrene-d10	188	8.545	8.552	-0.007	95	133539	1.00	1.00	
21 Phenanthrene	178	8.571	8.572	-0.001	87	1564732	10.0	10.2	
22 Anthracene	178	8.618	8.618	0.000	91	1573941	10.0	10.6	
23 Di-n-butyl phthalate	149	9.095	9.095	0.000	80	1725779	10.0	11.8	
$ 24 Fluoranthene-d10 (Surr)	212	9.675	9.675	0.000	77	1516687	10.0	10.6	
25 Fluoranthene	202	9.691	9.697	-0.006	99	1792946	10.0	10.5	
26 Pyrene	202	9.919	9.919	0.000	100	1854077	10.0	9.96	
27 Butyl benzyl phthalate	149	10.599	10.599	0.000	100	588188	10.0	9.04	
28 Benzo[a]anthracene	228	11.238	11.238	0.000	100	1700333	10.0	10.2	
* 29 Chrysene-d12	240	11.252	11.252	0.000	37	122732	1.00	1.00	
30 Chrysene	228	11.280	11.287	-0.007	100	1719883	10.0	10.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	11.301	11.308	-0.007	100	961263	10.0	8.58	
32 Di-n-octyl phthalate	149	12.186	12.186	0.000	100	1529003	10.0	8.27	
33 Benzo[b]fluoranthene	252	12.678	12.671	0.007	100	1602459	10.0	10.5	
34 Benzo[k]fluoranthene	252	12.713	12.713	0.000	100	1733431	10.0	10.9	
35 Benzo[e]pyrene	252	13.071	13.071	0.000	100	1521752	10.0	10.3	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.113	13.113	0.000	100	1169888	10.0	11.1	a
37 Benzo[a]pyrene	252	13.148	13.148	0.000	100	1544332	10.0	10.9	
* 38 Perylene-d12	264	13.225	13.225	0.000	100	113915	1.00	1.00	a
39 Perylene	252	13.260	13.268	-0.008	99	1509097	10.0	10.3	
40 Indeno[1,2,3-cd]pyrene	276	14.937	14.937	0.000	43	1331542	10.0	11.8	a
41 Dibenz(a,h)anthracene	278	14.994	14.994	0.000	54	1495095	10.0	11.3	
42 Benzo[g,h,i]perylene	276	15.432	15.432	0.000	98	1506283	10.0	11.0	
S 43 Total PAH	1				0			209.7	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

MSS_FVSIM_7_00012 Amount Added: 1.00 Units: mL

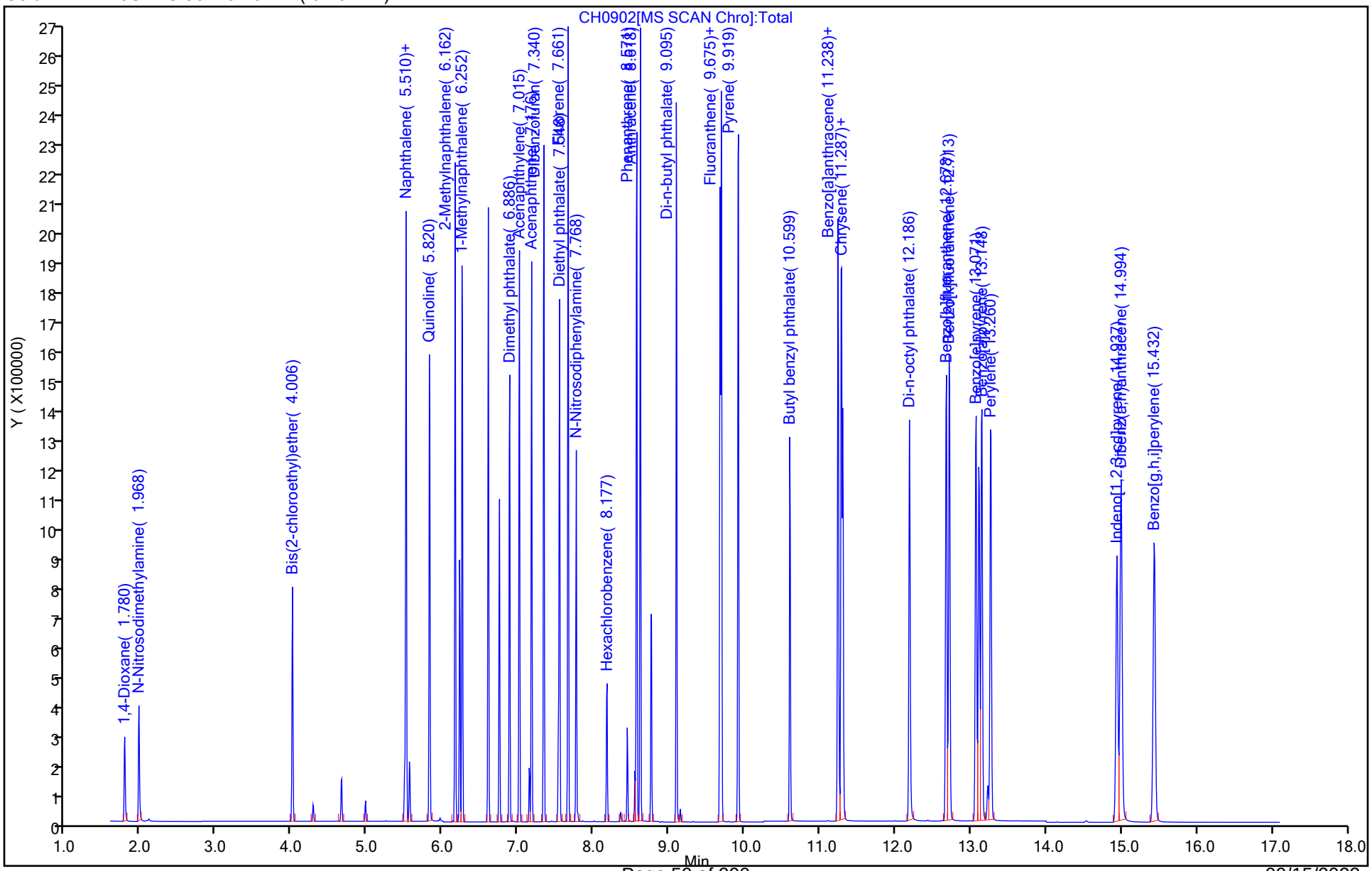
Report Date: 09-Aug-2022 19:35:26 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP10623\20220809-63751.b\CH0902.D

Injection Date:	09-Aug-2022 15:50:30	Instrument ID:	HP10623	Operator ID:	apb10206
Lims ID:	IC 7			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8270_SIM_HP10623	Limit Group:	MSSV - 8270D_E SIM		

Column: Rxi-.5SilMS 30m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

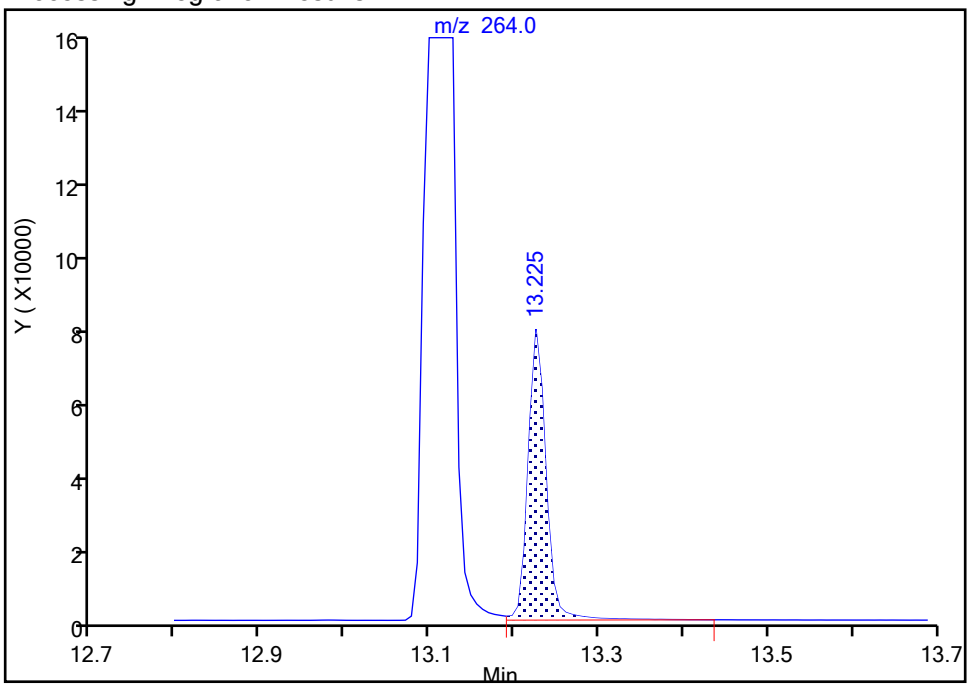
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Injection Date:	09-Aug-2022 15:50:30	Instrument ID:	HP10623		
Lims ID:	IC 7				
Client ID:					
Operator ID:	apb10206	ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP10623	Limit Group:	MSSV - 8270D_E SIM		
Column:	Rxi-.5SilMS 30m 0.25mm (0.25 mm)	Detector	MS SCAN		

$ 36 Benzo(a)pyrene-d12 (Surr), CAS: 63466-71-7

Signal: 1

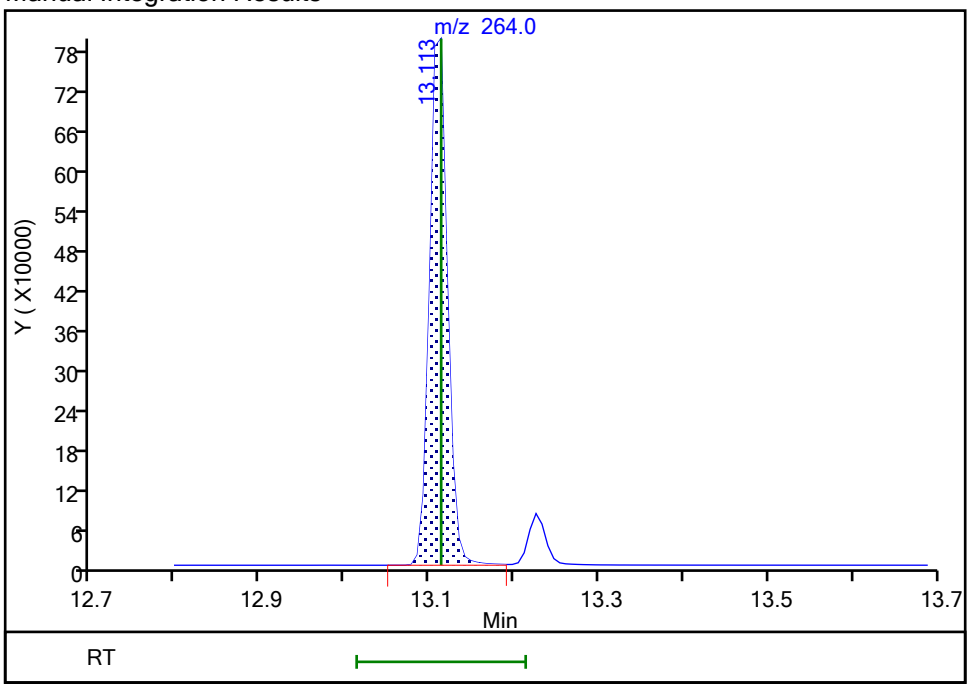
Processing Integration Results

RT: 13.23
Area: 113915
Amount: 0.001282
Amount Units: ug/ml



Manual Integration Results

RT: 13.11
Area: 1169888
Amount: 11.066189
Amount Units: ug/ml



Reviewer: SJ89, 09-Aug-2022 18:20:50

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

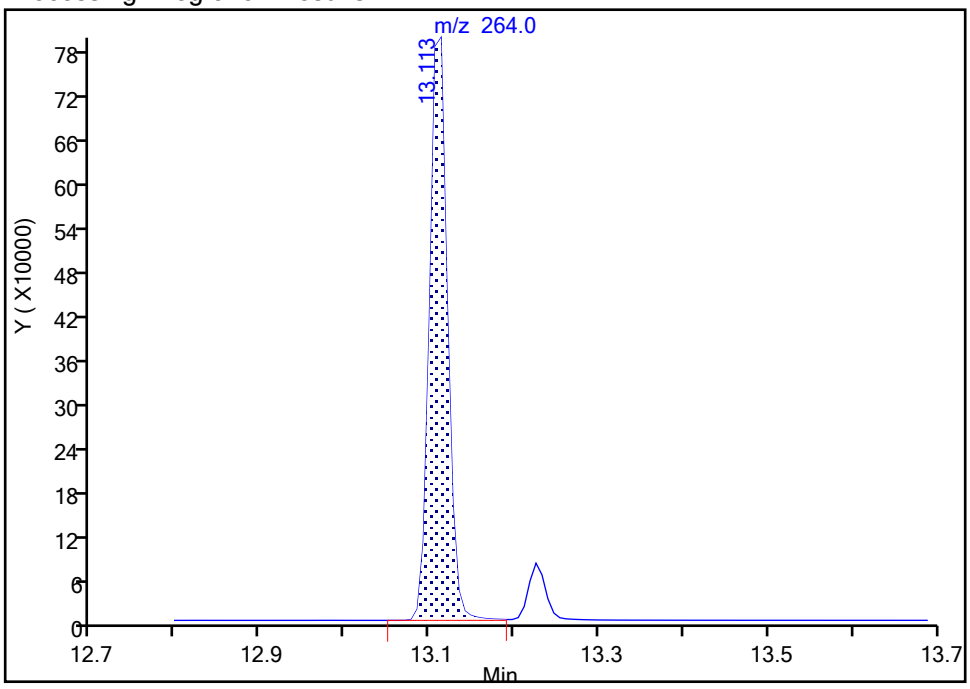
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Injection Date:	09-Aug-2022 15:50:30	Instrument ID:	HP10623		
Lims ID:	IC 7				
Client ID:					
Operator ID:	apb10206	ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP10623	Limit Group:	MSSV - 8270D_E SIM		
Column:	Rxi-.5SilMS 30m 0.25mm (0.25 mm)	Detector	MS SCAN		

* 38 Perylene-d12, CAS: 1520-96-3

Signal: 1

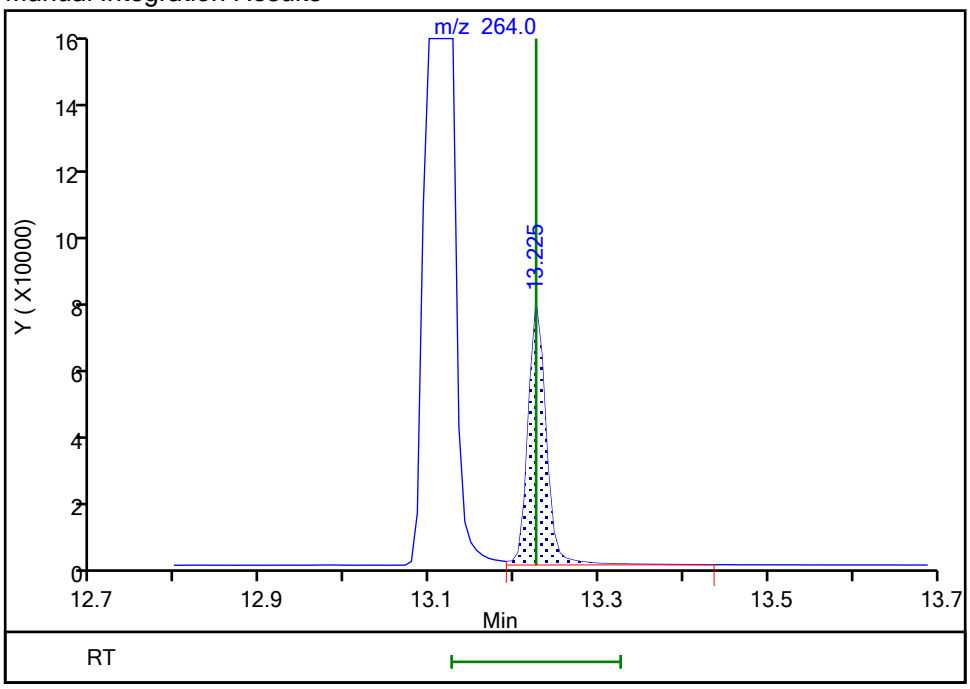
Processing Integration Results

RT: 13.11
Area: 1169888
Amount: 1.000000
Amount Units: ug/ml



Manual Integration Results

RT: 13.23
Area: 113915
Amount: 1.000000
Amount Units: ug/ml



Reviewer: SJ89, 09-Aug-2022 18:21:03
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

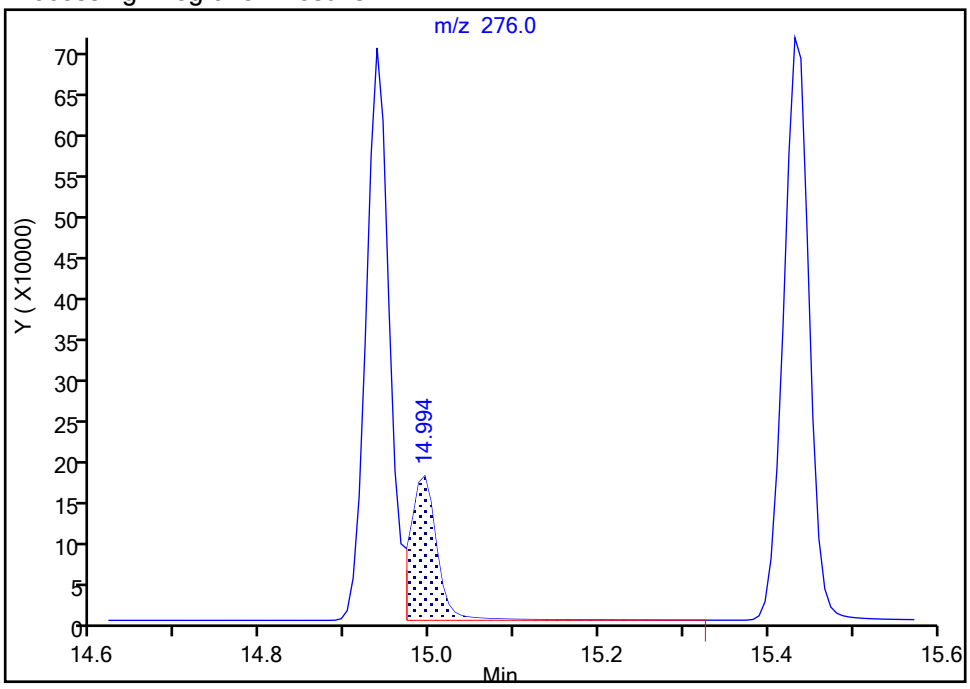
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Injection Date:	09-Aug-2022 15:50:30	Instrument ID:	HP10623		
Lims ID:	IC 7				
Client ID:					
Operator ID:	apb10206	ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP10623	Limit Group:	MSSV - 8270D_E SIM		
Column:	Rxi-.5SilMS 30m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

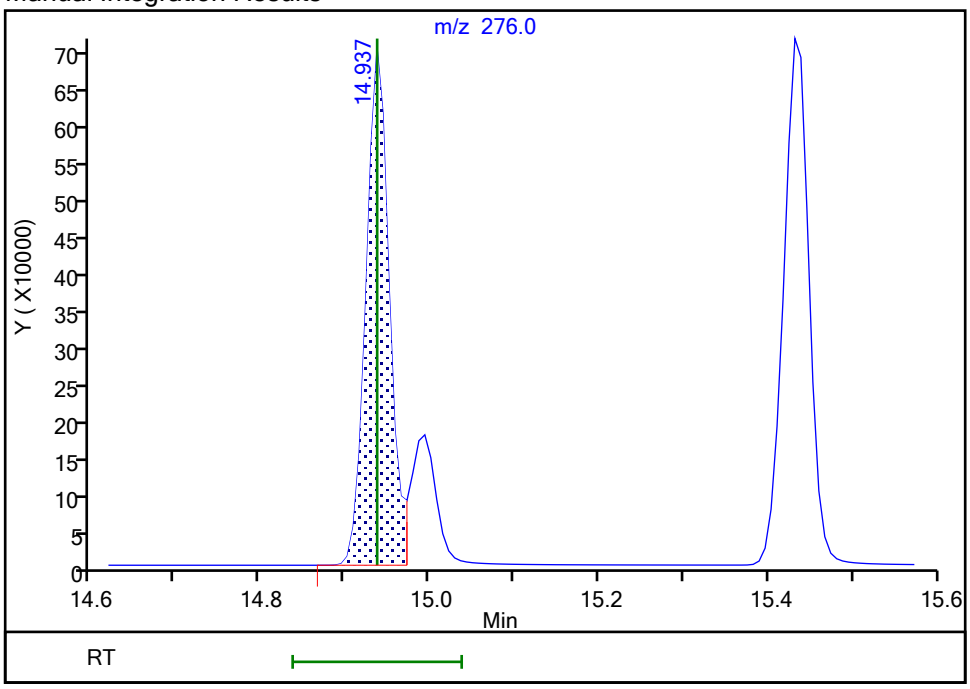
Processing Integration Results

RT: 14.99
Area: 363369
Amount: 0.282899
Amount Units: ug/ml



Manual Integration Results

RT: 14.94
Area: 1331542
Amount: 11.760816
Amount Units: ug/ml



Reviewer: SJ89, 09-Aug-2022 16:15:38
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP10623\20220809-63751.b\CH0903.D
Lims ID: IC 6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 09-Aug-2022 16:13:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC 6
Misc. Info.: 410-0063751-004
Operator ID: apb10206 Instrument ID: HP10623
Sublist: chrom-8270_SIM_HP10623*sub4

Method: \\chromfs\Lancaster\ChromData\HP10623\20220809-63751.b\8270_SIM_HP10623.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 09-Aug-2022 19:35:27 Calib Date: 09-Aug-2022 17:46:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP10623\20220809-63751.b\CH0907.D

Column 1 : Rxi-.5SilMS 30m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1609

First Level Reviewer: SJ89 Date: 09-Aug-2022 17:13:39

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.780	1.797	-0.017	89	91056	5.00	5.06	
2 N-Nitrosodimethylamine	74	1.968	1.990	-0.022	80	116392	5.00	5.45	
3 Bis(2-chloroethyl)ether	93	4.006	4.012	-0.006	88	221432	5.00	5.11	
* 4 1,4-Dichlorobenzene-d4	152	4.277	4.283	-0.006	82	34164	1.00	1.00	
* 5 Naphthalene-d8	136	5.491	5.491	-0.001	51	139228	1.00	1.00	
6 Naphthalene	128	5.510	5.510	0.000	97	754016	5.00	5.23	
7 Quinoline	129	5.820	5.826	-0.006	0	498959	5.00	5.27	
8 2-Methylnaphthalene	142	6.162	6.162	0.000	72	500450	5.00	5.35	
$ 9 1-Methylnaphthalene-d10	152	6.220	6.220	0.000	76	366685	5.00	5.24	
10 1-Methylnaphthalene	142	6.252	6.259	-0.007	69	465923	5.00	5.31	
11 Dimethyl phthalate	163	6.879	6.886	-0.007	99	549033	5.00	5.27	
12 Acenaphthylene	152	7.015	7.015	0.000	74	778230	5.00	5.32	
* 13 Acenaphthene-d10	164	7.144	7.151	-0.006	90	75025	1.00	1.00	
14 Acenaphthene	154	7.176	7.176	0.000	56	473282	5.00	5.29	
15 Dibenzofuran	168	7.340	7.340	0.000	96	703947	5.00	5.22	
16 Diethyl phthalate	149	7.541	7.548	-0.007	65	573225	5.00	5.38	
17 Fluorene	166	7.661	7.661	0.000	89	568325	5.00	5.29	
18 N-Nitrosodiphenylamine	169	7.768	7.768	0.000	63	304707	5.00	4.27	
19 Hexachlorobenzene	284	8.177	8.177	0.000	93	142055	5.00	5.07	
* 20 Phenanthrene-d10	188	8.545	8.552	-0.007	95	145974	1.00	1.00	
21 Phenanthrene	178	8.565	8.572	-0.007	87	866884	5.00	5.17	
22 Anthracene	178	8.618	8.618	0.000	91	866233	5.00	5.33	
23 Di-n-butyl phthalate	149	9.095	9.095	0.000	80	921392	5.00	5.76	
$ 24 Fluoranthene-d10 (Surr)	212	9.675	9.675	0.000	77	824828	5.00	5.27	
25 Fluoranthene	202	9.691	9.697	-0.006	99	982731	5.00	5.28	
26 Pyrene	202	9.913	9.919	-0.006	99	1016309	5.00	5.15	
27 Butyl benzyl phthalate	149	10.599	10.599	0.000	100	269513	5.00	5.00	
28 Benzo[a]anthracene	228	11.238	11.238	0.000	100	909123	5.00	5.13	
* 29 Chrysene-d12	240	11.252	11.252	0.000	88	129993	1.00	1.00	
30 Chrysene	228	11.280	11.287	-0.007	100	928252	5.00	5.10	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	11.301	11.308	-0.007	100	471068	5.00	5.00	
32 Di-n-octyl phthalate	149	12.186	12.186	0.000	100	696239	5.00	5.00	
33 Benzo[b]fluoranthene	252	12.671	12.671	0.000	100	849918	5.00	5.65	
34 Benzo[k]fluoranthene	252	12.713	12.713	0.000	100	895955	5.00	5.72	
35 Benzo[e]pyrene	252	13.064	13.071	-0.007	100	794582	5.00	5.46	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.106	13.113	-0.007	100	608520	5.00	5.83	a
37 Benzo[a]pyrene	252	13.141	13.148	-0.007	100	807148	5.00	5.75	
* 38 Perylene-d12	264	13.225	13.225	0.000	100	112460	1.00	1.00	a
39 Perylene	252	13.260	13.268	-0.008	99	790196	5.00	5.44	
40 Indeno[1,2,3-cd]pyrene	276	14.937	14.937	0.000	43	661362	5.00	5.92	a
41 Dibenz(a,h)anthracene	278	14.994	14.994	0.000	54	761064	5.00	5.80	
42 Benzo[g,h,i]perylene	276	15.432	15.432	0.000	99	777142	5.00	5.74	
S 43 Total PAH	1				0			108.4	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

MSS_FVSIM_6_00014 Amount Added: 1.00 Units: mL

Report Date: 09-Aug-2022 19:35:28 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP10623\20220809-63751.b\CH0903.D

Injection Date: 09-Aug-2022 16:13:30 Instrument ID: HP10623 Operator ID: apb10206

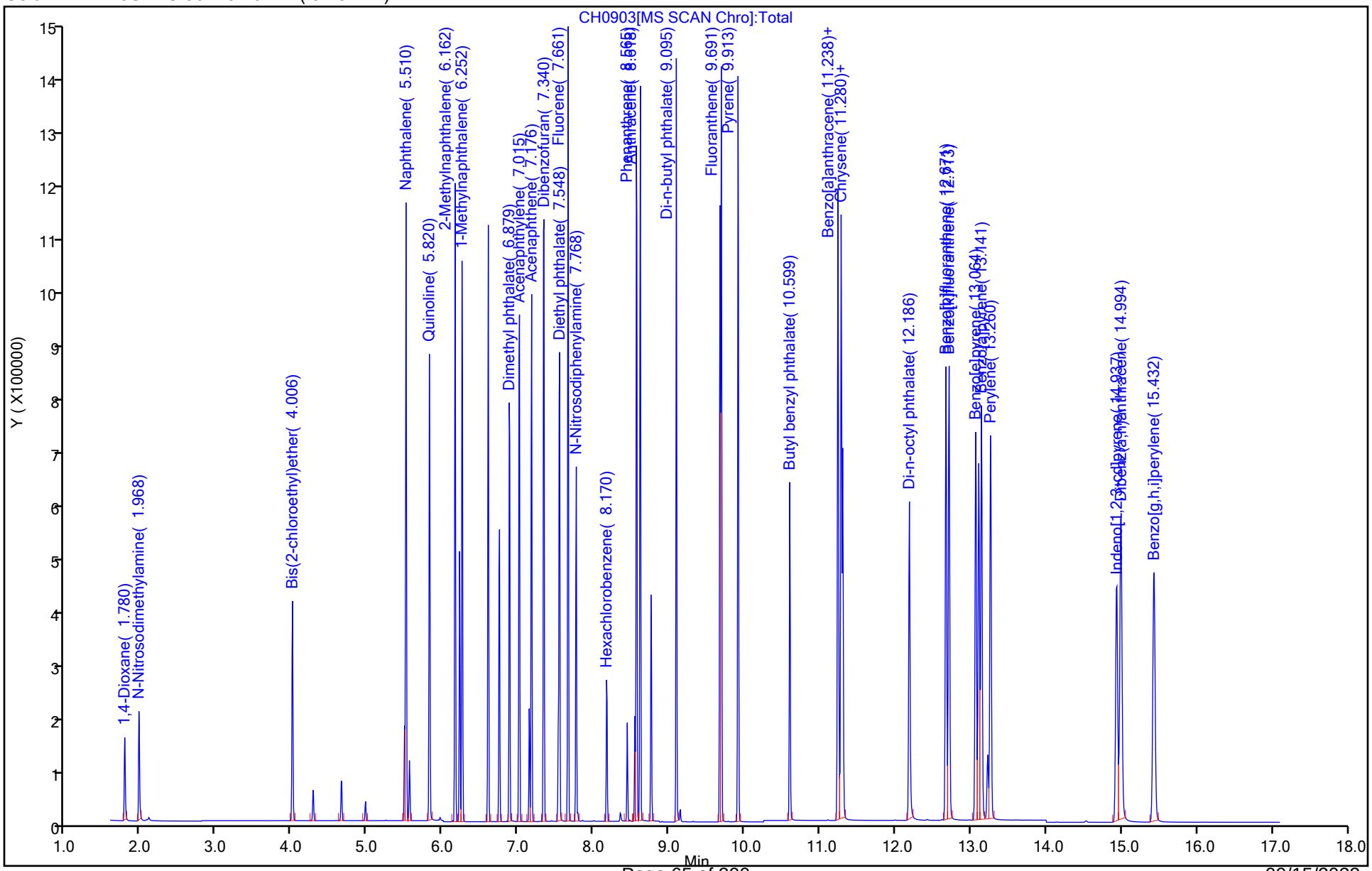
Lims ID: IC 6 Worklist Smp#: 4

Client ID:

Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 4

Method: 8270_SIM_HP10623 Limit Group: MSSV - 8270D_E SIM

Column: Rxi-.5SilMS 30m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

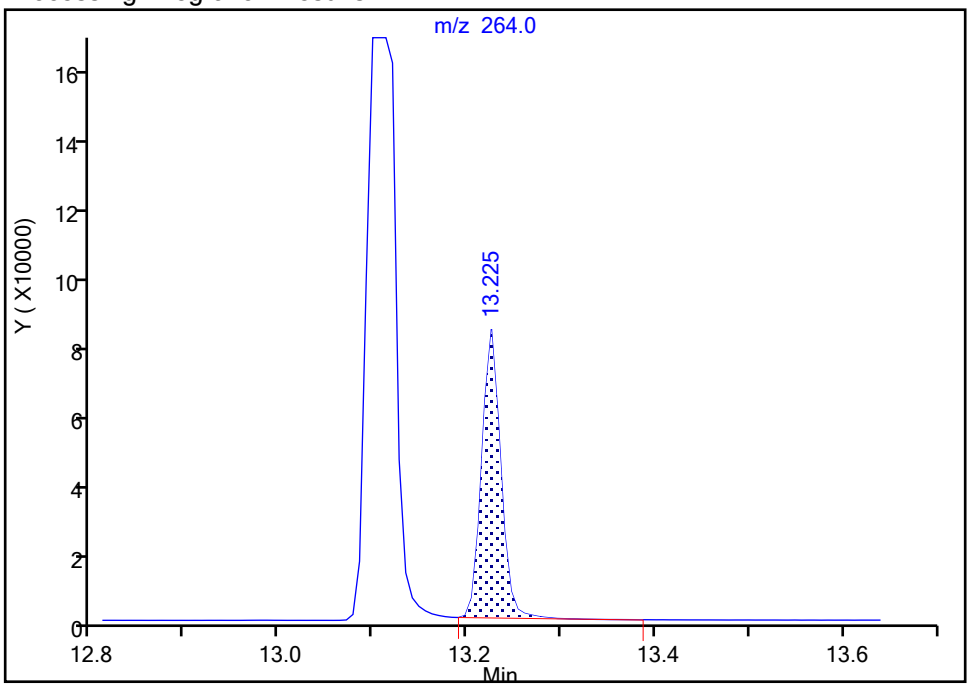
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Injection Date:	09-Aug-2022 16:13:30	Instrument ID:	HP10623		
Lims ID:	IC 6				
Client ID:					
Operator ID:	apb10206	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP10623	Limit Group:	MSSV - 8270D_E SIM		
Column:	Rxi-.5SilMS 30m 0.25mm (0.25 mm)	Detector	MS SCAN		

$ 36 Benzo(a)pyrene-d12 (Surr), CAS: 63466-71-7

Signal: 1

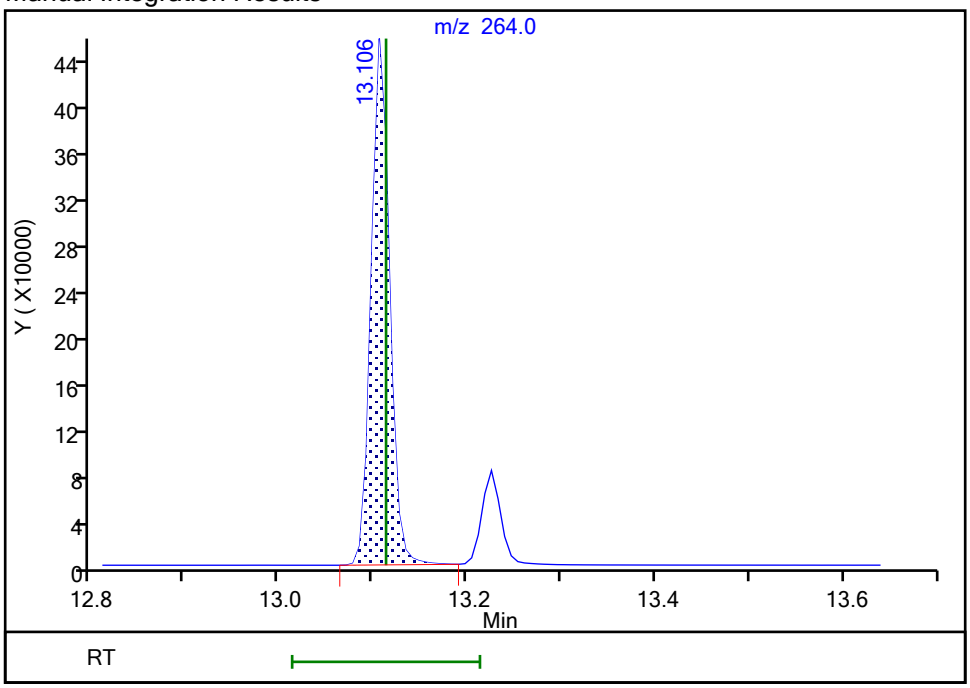
Processing Integration Results

RT: 13.23
Area: 112460
Amount: 0.013136
Amount Units: ug/ml



Manual Integration Results

RT: 13.11
Area: 608520
Amount: 5.830576
Amount Units: ug/ml



Reviewer: SJ89, 09-Aug-2022 18:21:19
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

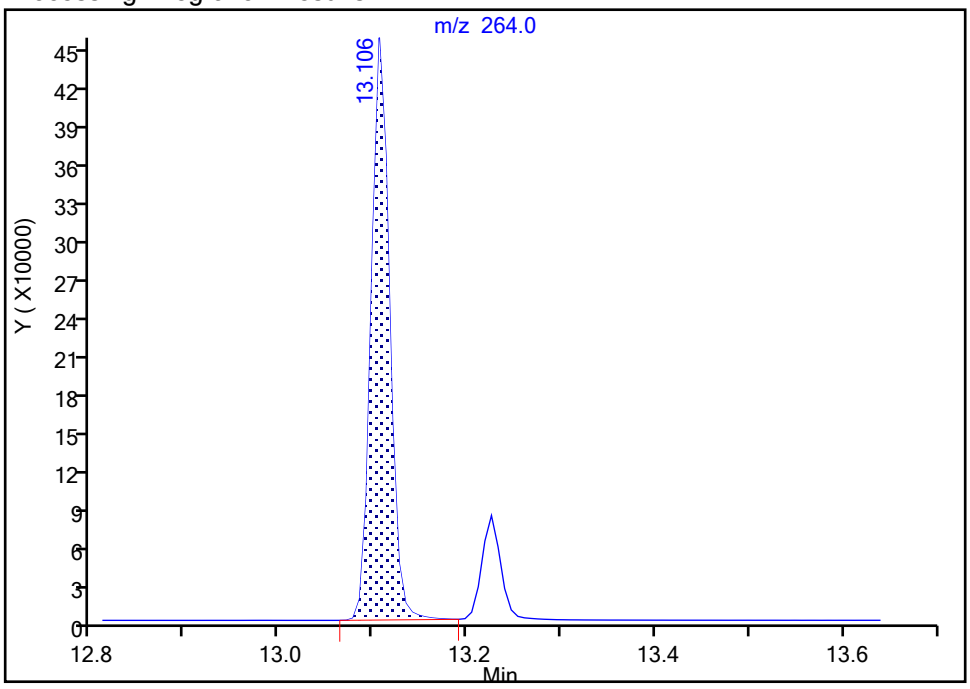
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Injection Date:	09-Aug-2022 16:13:30	Instrument ID:	HP10623		
Lims ID:	IC 6				
Client ID:					
Operator ID:	apb10206	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP10623	Limit Group:	MSSV - 8270D_E SIM		
Column:	Rxi-.5SilMS 30m 0.25mm (0.25 mm)	Detector	MS SCAN		

* 38 Perylene-d12, CAS: 1520-96-3

Signal: 1

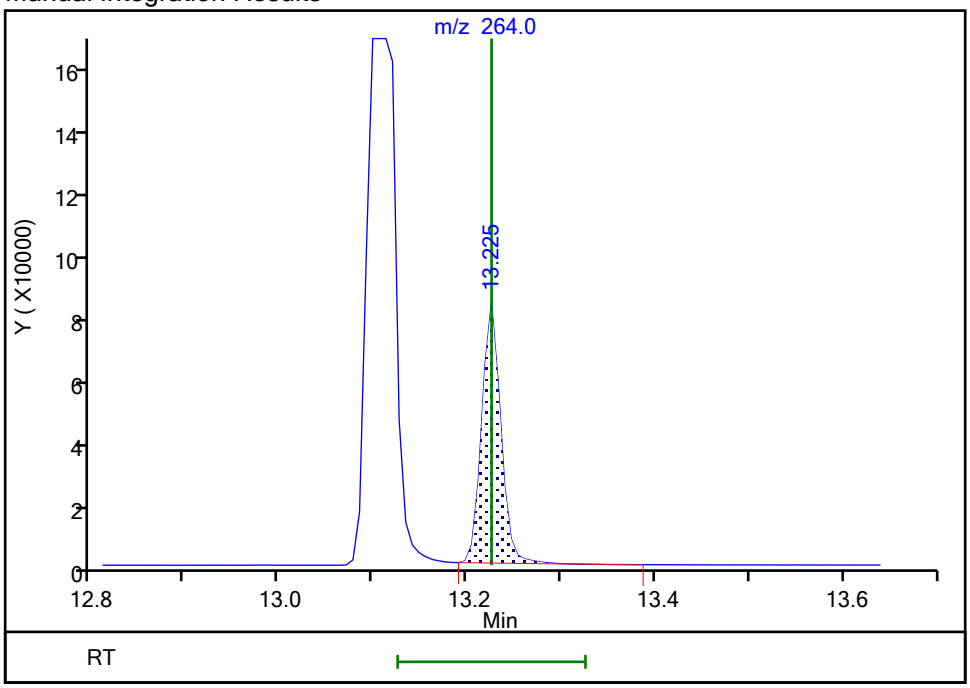
Processing Integration Results

RT: 13.11
Area: 608520
Amount: 1.000000
Amount Units: ug/ml



Manual Integration Results

RT: 13.23
Area: 112460
Amount: 1.000000
Amount Units: ug/ml



Reviewer: SJ89, 09-Aug-2022 18:21:14
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

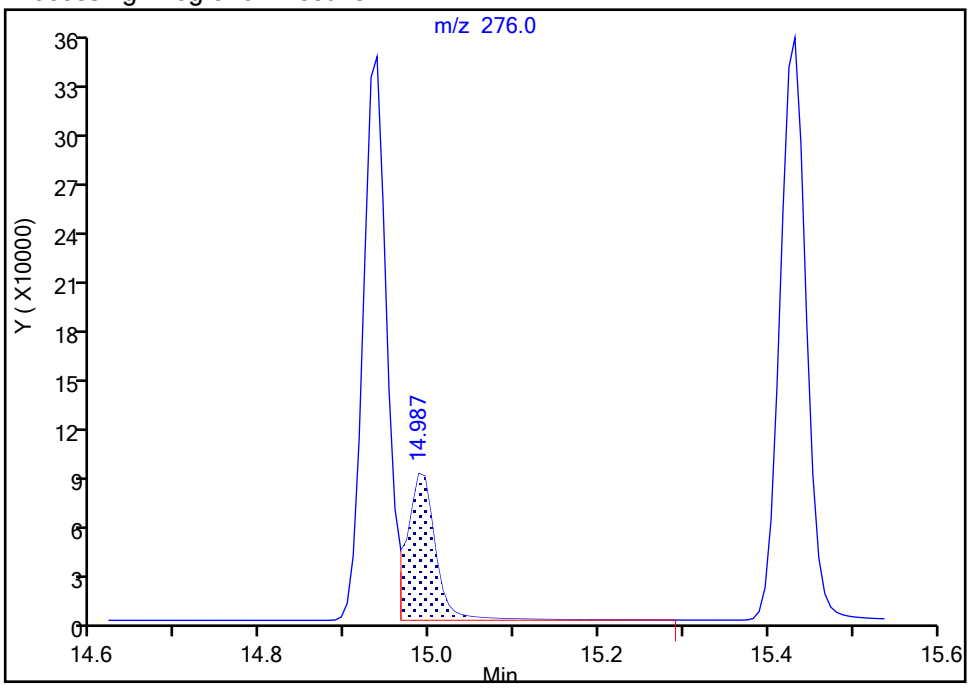
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Injection Date:	09-Aug-2022 16:13:30	Instrument ID:	HP10623		
Lims ID:	IC 6				
Client ID:					
Operator ID:	apb10206	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP10623	Limit Group:	MSSV - 8270D_E SIM		
Column:	Rxi-.5SilMS 30m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

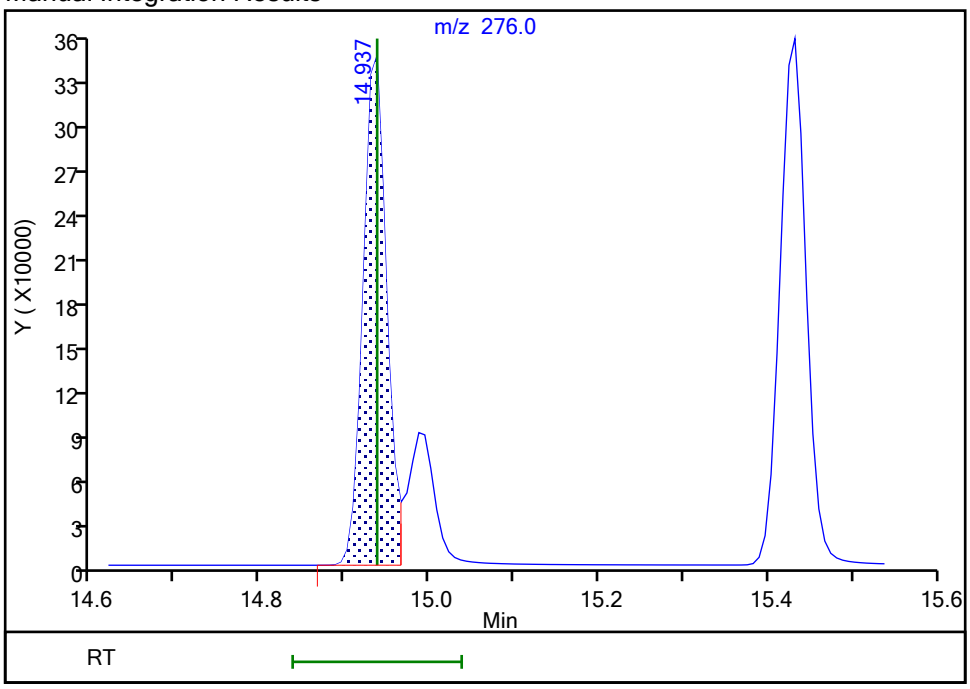
Processing Integration Results

RT: 14.99
Area: 203059
Amount: 0.497074
Amount Units: ug/ml



Manual Integration Results

RT: 14.94
Area: 661362
Amount: 5.917042
Amount Units: ug/ml



Reviewer: SJ89, 09-Aug-2022 17:13:33

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP10623\20220809-63751.b\CH0904.D
Lims ID: IC 5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 09-Aug-2022 16:36:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC 5
Misc. Info.: 410-0063751-005
Operator ID: apb10206 Instrument ID: HP10623
Sublist: chrom-8270_SIM_HP10623*sub4

Method: \\chromfs\Lancaster\ChromData\HP10623\20220809-63751.b\8270_SIM_HP10623.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 09-Aug-2022 19:35:29 Calib Date: 09-Aug-2022 17:46:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP10623\20220809-63751.b\CH0907.D

Column 1 : Rxi-.5SilMS 30m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1609

First Level Reviewer: SJ89 Date: 09-Aug-2022 17:32:24

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.780	1.797	-0.017	89	17215	1.00	0.9832	
2 N-Nitrosodimethylamine	74	1.972	1.990	-0.018	85	21536	1.00	1.04	
3 Bis(2-chloroethyl)ether	93	4.006	4.012	-0.006	88	41551	1.00	1.02	
* 4 1,4-Dichlorobenzene-d4	152	4.277	4.283	-0.006	83	33262	1.00	1.00	
* 5 Naphthalene-d8	136	5.491	5.491	0.000	51	130877	1.00	1.00	
6 Naphthalene	128	5.510	5.510	0.000	97	141117	1.00	1.04	
7 Quinoline	129	5.820	5.826	-0.006	0	91337	1.00	1.03	
8 2-Methylnaphthalene	142	6.162	6.162	0.000	72	91935	1.00	1.05	
$ 9 1-Methylnaphthalene-d10	152	6.220	6.220	0.000	76	67661	1.00	1.03	
10 1-Methylnaphthalene	142	6.253	6.259	-0.006	72	85686	1.00	1.04	
11 Dimethyl phthalate	163	6.879	6.886	-0.007	100	97452	1.00	1.01	
12 Acenaphthylene	152	7.015	7.015	0.000	74	139688	1.00	1.03	
* 13 Acenaphthene-d10	164	7.144	7.151	-0.006	91	69607	1.00	1.00	
14 Acenaphthene	154	7.176	7.176	0.000	56	86096	1.00	1.04	
15 Dibenzofuran	168	7.340	7.340	0.000	96	127777	1.00	1.02	
16 Diethyl phthalate	149	7.541	7.548	-0.007	65	99432	1.00	1.01	
17 Fluorene	166	7.661	7.661	0.000	89	102150	1.00	1.03	
18 N-Nitrosodiphenylamine	169	7.768	7.768	0.000	63	67475	1.00	1.03	
19 Hexachlorobenzene	284	8.177	8.177	0.000	93	25772	1.00	1.00	
* 20 Phenanthrene-d10	188	8.545	8.552	-0.007	95	134166	1.00	1.00	
21 Phenanthrene	178	8.565	8.572	-0.007	87	155904	1.00	1.01	
22 Anthracene	178	8.618	8.618	0.000	90	152690	1.00	1.02	
23 Di-n-butyl phthalate	149	9.095	9.095	0.000	80	145366	1.00	0.9892	
$ 24 Fluoranthene-d10 (Surr)	212	9.675	9.675	0.000	77	146207	1.00	1.02	
25 Fluoranthene	202	9.691	9.697	-0.006	99	175675	1.00	1.03	
26 Pyrene	202	9.913	9.919	-0.006	99	180198	1.00	1.01	
27 Butyl benzyl phthalate	149	10.599	10.599	0.000	100	32282	1.00	0.9225	
28 Benzo[a]anthracene	228	11.238	11.238	0.000	100	157899	1.00	0.9829	
* 29 Chrysene-d12	240	11.252	11.252	0.000	94	117724	1.00	1.00	
30 Chrysene	228	11.280	11.287	-0.007	100	166948	1.00	1.01	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	11.301	11.308	-0.007	100	57894	1.00	0.9618	
32 Di-n-octyl phthalate	149	12.186	12.186	0.000	100	75055	1.00	0.9295	
33 Benzo[b]fluoranthene	252	12.671	12.671	0.000	100	148300	1.00	1.04	
34 Benzo[k]fluoranthene	252	12.713	12.713	0.000	100	153555	1.00	1.03	
35 Benzo[e]pyrene	252	13.064	13.071	-0.007	100	140562	1.00	1.02	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.106	13.113	-0.007	100	102655	1.00	1.03	a
37 Benzo[a]pyrene	252	13.141	13.148	-0.007	100	138913	1.00	1.04	
* 38 Perylene-d12	264	13.225	13.225	0.000	100	106882	1.00	1.00	a
39 Perylene	252	13.261	13.268	-0.007	100	138993	1.00	1.01	
40 Indeno[1,2,3-cd]pyrene	276	14.930	14.937	-0.007	43	109917	1.00	1.03	a
41 Dibenz(a,h)anthracene	278	14.987	14.994	-0.007	54	127325	1.00	1.02	
42 Benzo[g,h,i]perylene	276	15.425	15.432	-0.007	98	132975	1.00	1.03	
S 43 Total PAH	1				0			20.5	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

MSS_FVSIM_5_00016 Amount Added: 1.00 Units: mL

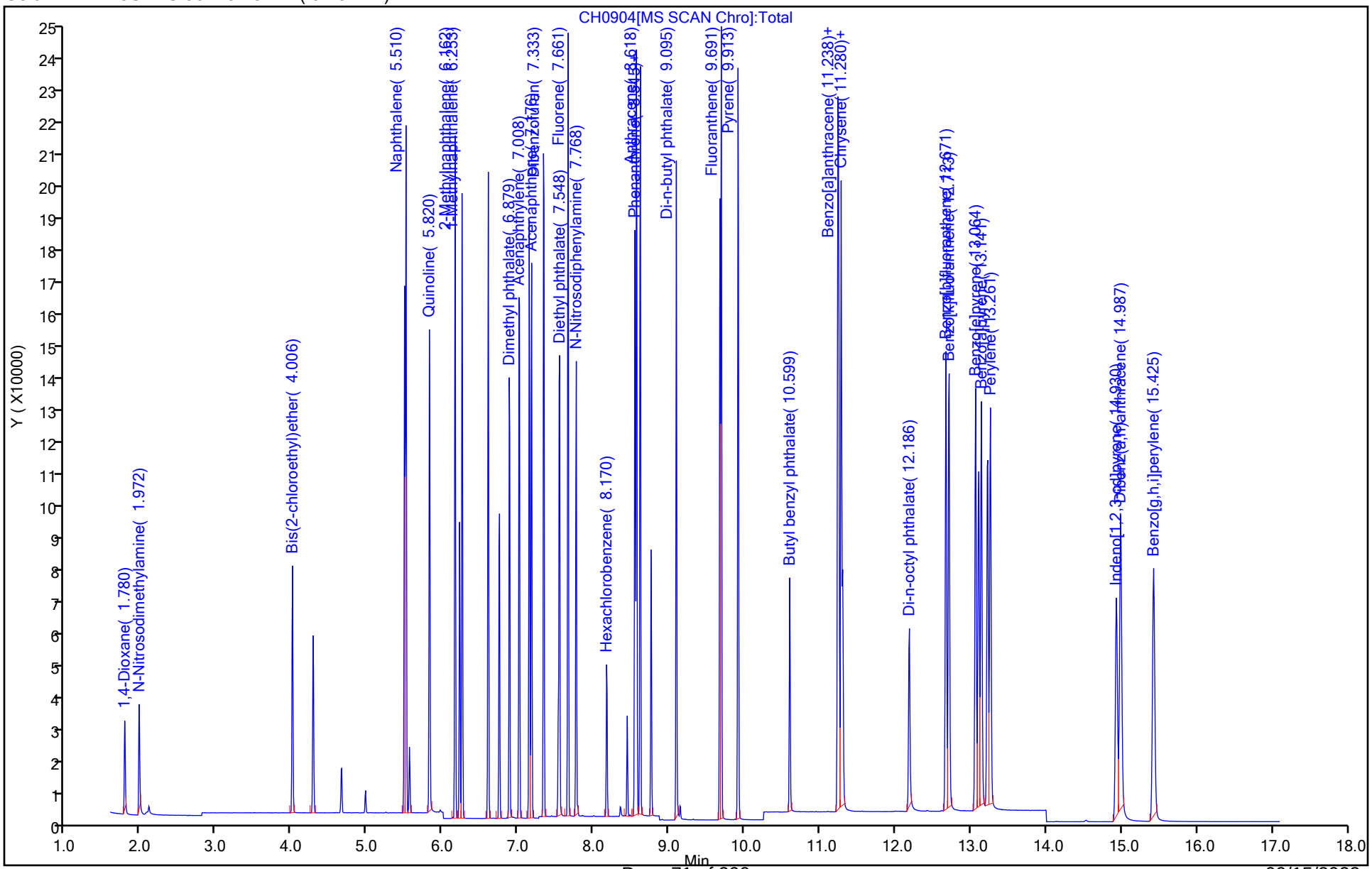
Report Date: 09-Aug-2022 19:35:30 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP10623\20220809-63751.b\CH0904.D

Injection Date:	09-Aug-2022 16:36:30	Instrument ID:	HP10623	Operator ID:	apb10206
Lims ID:	IC 5			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8270_SIM_HP10623	Limit Group:	MSSV - 8270D_E SIM		

Column: Rxi-.5SilMS 30m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

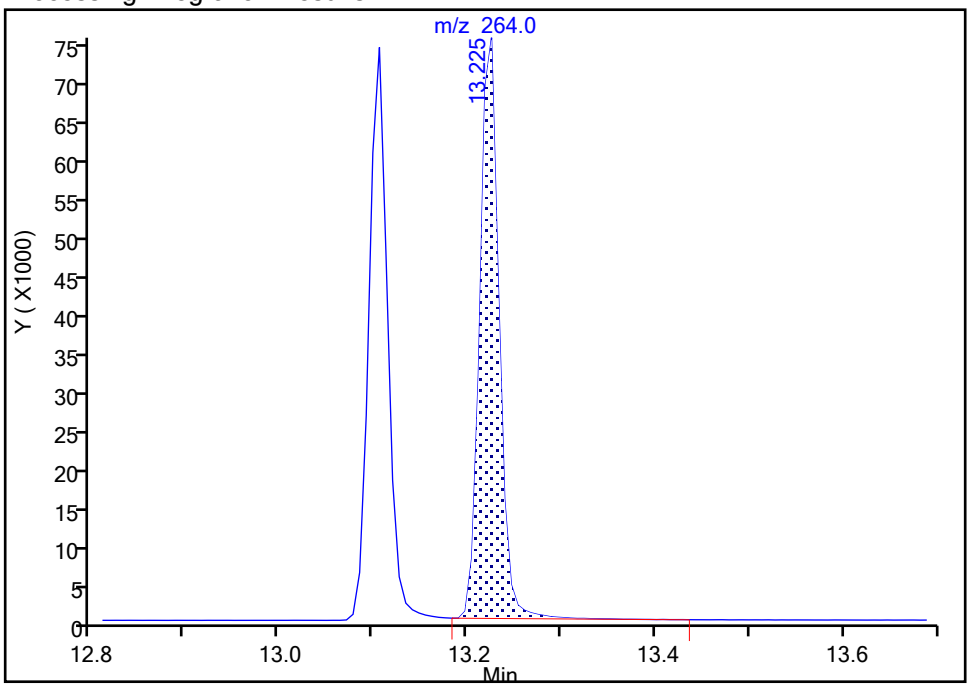
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Lims ID:	IC 5				
Client ID:					
Operator ID:	apb10206	ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP10623	Limit Group:	MSSV - 8270D_E SIM		
Column:	Rxi-.5SilMS 30m 0.25mm (0.25 mm)	Detector	MS SCAN		

$ 36 Benzo(a)pyrene-d12 (Surr), CAS: 63466-71-7

Signal: 1

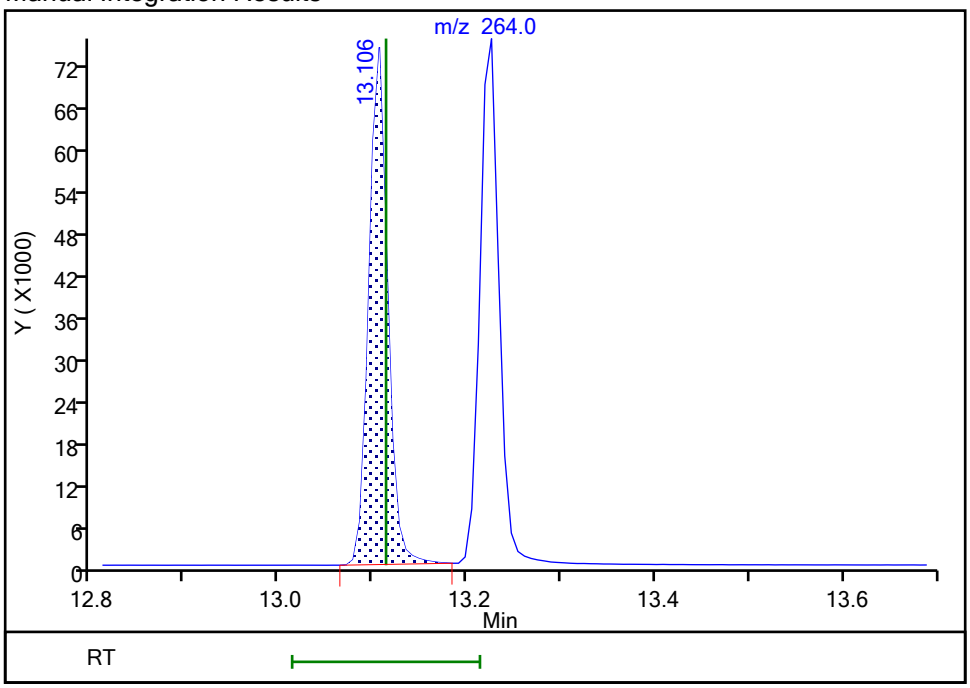
Processing Integration Results

RT: 13.23
Area: 106882
Amount: 0.013654
Amount Units: ug/ml



Manual Integration Results

RT: 13.11
Area: 102655
Amount: 1.034928
Amount Units: ug/ml



Reviewer: SJ89, 09-Aug-2022 18:21:31

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

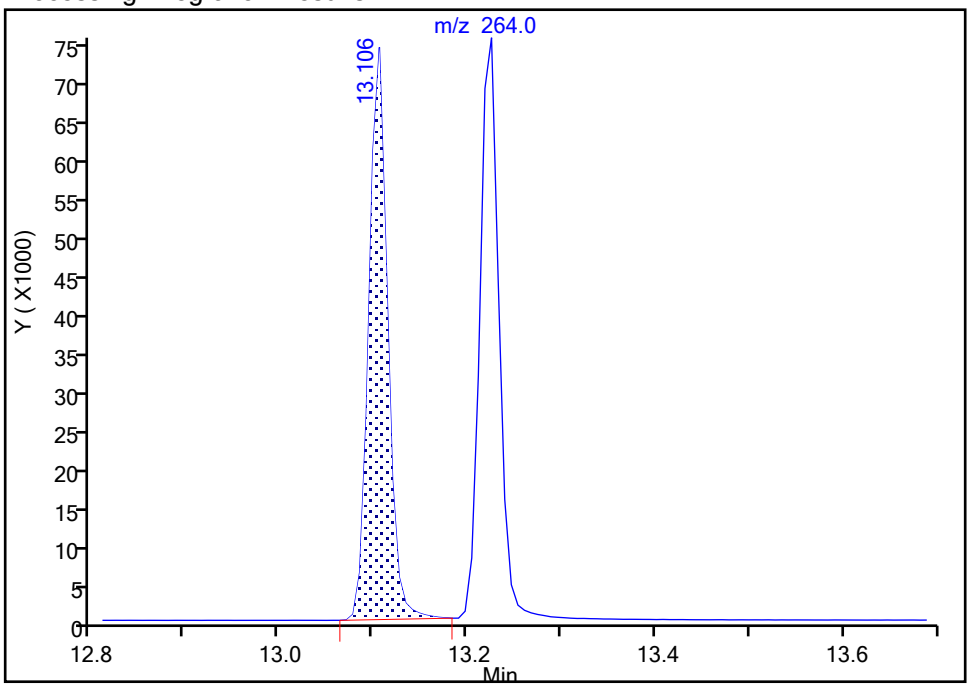
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Injection Date:	09-Aug-2022 16:36:30	Instrument ID:	HP10623		
Lims ID:	IC 5				
Client ID:					
Operator ID:	apb10206	ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP10623	Limit Group:	MSSV - 8270D_E SIM		
Column:	Rxi-.5SilMS 30m 0.25mm (0.25 mm)	Detector	MS SCAN		

* 38 Perylene-d12, CAS: 1520-96-3

Signal: 1

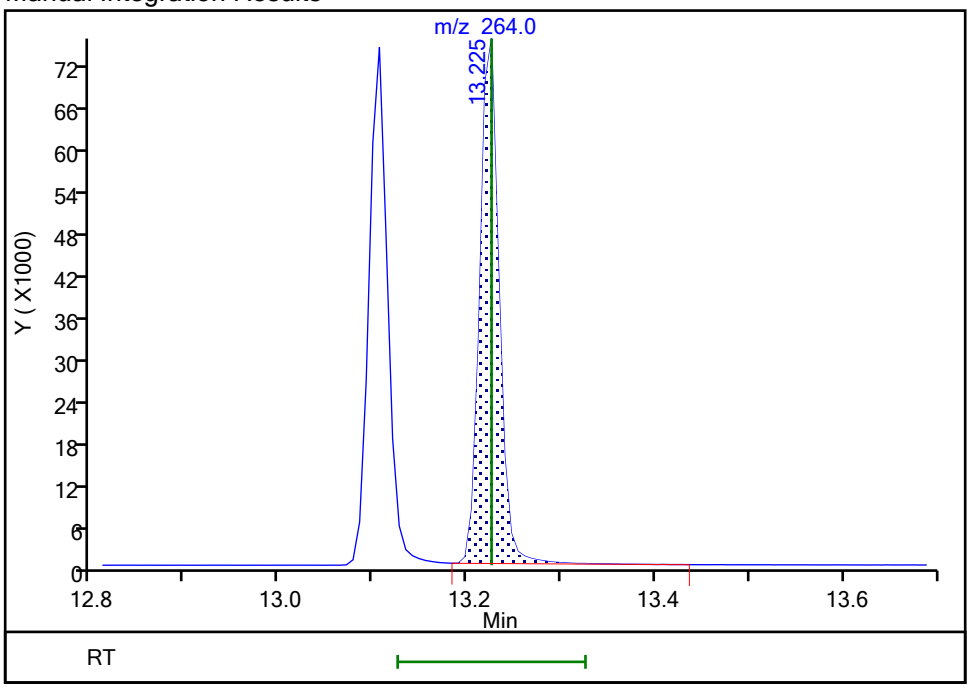
Processing Integration Results

RT: 13.11
Area: 102655
Amount: 1.000000
Amount Units: ug/ml



Manual Integration Results

RT: 13.23
Area: 106882
Amount: 1.000000
Amount Units: ug/ml



Reviewer: SJ89, 09-Aug-2022 18:21:36

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

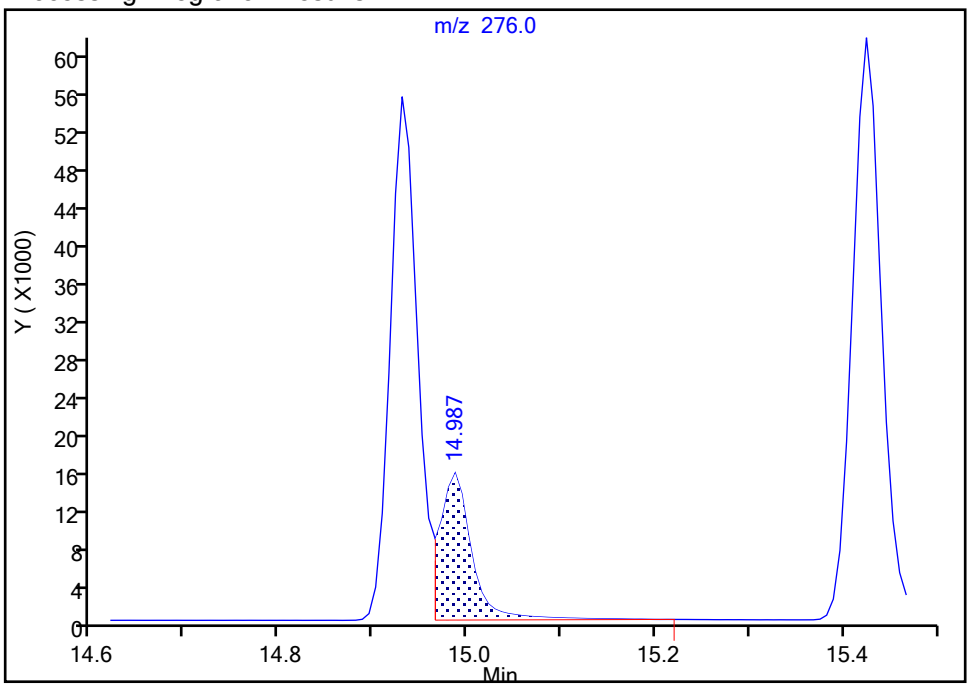
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Lims ID:	IC 5				
Client ID:					
Operator ID:	apb10206	ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP10623	Limit Group:	MSSV - 8270D_E SIM		
Column:	Rxi-.5SilMS 30m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

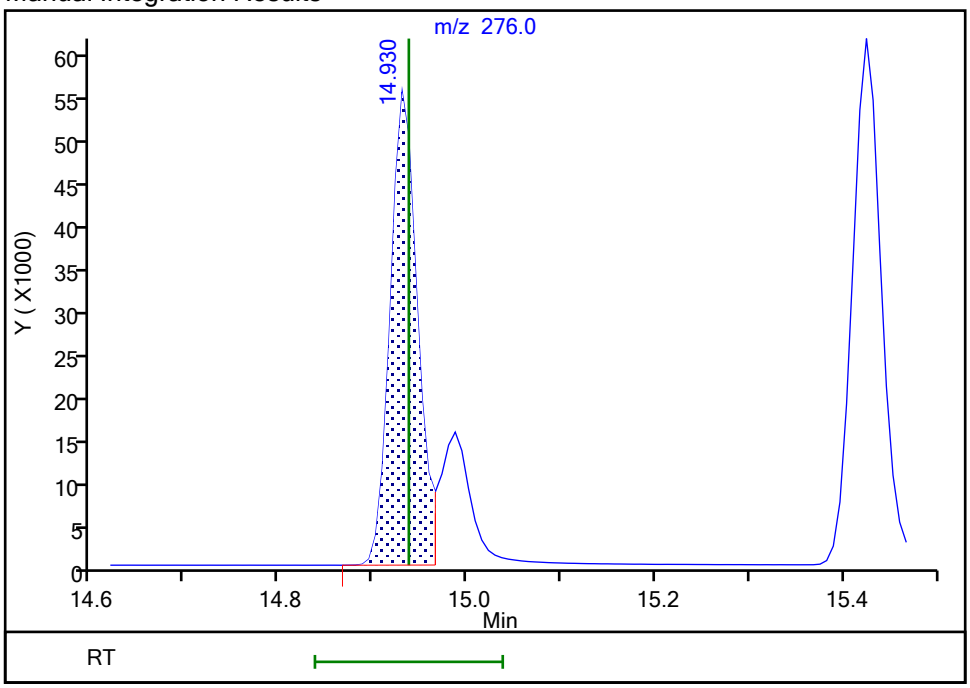
Processing Integration Results

RT: 14.99
Area: 34894
Amount: 0.479448
Amount Units: ug/ml



Manual Integration Results

RT: 14.93
Area: 109917
Amount: 1.034722
Amount Units: ug/ml



Reviewer: SJ89, 09-Aug-2022 17:13:56
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP10623\20220809-63751.b\CH0905.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 09-Aug-2022 17:00:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC 3
Misc. Info.: 410-0063751-006
Operator ID: apb10206 Instrument ID: HP10623
Sublist: chrom-8270_SIM_HP10623*sub4

Method: \\chromfs\Lancaster\ChromData\HP10623\20220809-63751.b\8270_SIM_HP10623.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 09-Aug-2022 19:35:31 Calib Date: 09-Aug-2022 17:46:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP10623\20220809-63751.b\CH0907.D

Column 1 : Rxi-.5SilMS 30m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1609

First Level Reviewer: SJ89 Date: 09-Aug-2022 17:33:15

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	1.784	1.797	-0.013	93	3498	0.2000	0.2037	
	2 N-Nitrosodimethylamine	74	1.977	1.990	-0.013	87	4218	0.2000	0.2069	
	3 Bis(2-chloroethyl)ether	93	4.006	4.012	-0.006	85	8218	0.2000	0.2074	
*	4 1,4-Dichlorobenzene-d4	152	4.283	4.283	0.000	75	32625	1.00	1.00	
*	5 Naphthalene-d8	136	5.491	5.491	0.000	51	127210	1.00	1.00	
	6 Naphthalene	128	5.510	5.510	0.000	97	27497	0.2000	0.2086	
	7 Quinoline	129	5.820	5.826	-0.006	0	17513	0.2000	0.2024	M
	8 2-Methylnaphthalene	142	6.162	6.162	0.000	72	17704	0.2000	0.2073	
$	9 1-Methylnaphthalene-d10	152	6.220	6.220	0.000	76	13139	0.2000	0.2055	
	10 1-Methylnaphthalene	142	6.253	6.259	-0.006	72	16481	0.2000	0.2056	
	11 Dimethyl phthalate	163	6.879	6.886	-0.007	100	18678	0.2000	0.1992	
	12 Acenaphthylene	152	7.008	7.015	-0.007	74	26456	0.2000	0.2011	
*	13 Acenaphthene-d10	164	7.144	7.151	-0.006	90	67516	1.00	1.00	
	14 Acenaphthene	154	7.176	7.176	0.000	56	16403	0.2000	0.2036	
	15 Dibenzofuran	168	7.340	7.340	0.000	96	24878	0.2000	0.2050	
	16 Diethyl phthalate	149	7.541	7.548	-0.007	66	18603	0.2000	0.1939	
	17 Fluorene	166	7.661	7.661	0.000	89	19400	0.2000	0.2008	
	18 N-Nitrosodiphenylamine	169	7.769	7.768	0.001	63	13885	0.2000	0.2171	
	19 Hexachlorobenzene	284	8.177	8.177	0.000	93	5055	0.2000	0.2016	
*	20 Phenanthrene-d10	188	8.545	8.552	-0.007	96	130779	1.00	1.00	
	21 Phenanthrene	178	8.565	8.572	-0.007	87	30192	0.2000	0.2008	
	22 Anthracene	178	8.619	8.618	0.000	90	28692	0.2000	0.1969	
	23 Di-n-butyl phthalate	149	9.095	9.095	0.000	80	25613	0.2000	0.1788	
$	24 Fluoranthene-d10 (Surr)	212	9.675	9.675	0.000	77	27504	0.2000	0.1963	
	25 Fluoranthene	202	9.691	9.697	-0.006	99	32861	0.2000	0.1970	
	26 Pyrene	202	9.913	9.919	-0.006	99	33896	0.2000	0.2010	
	27 Butyl benzyl phthalate	149	10.599	10.599	0.000	100	5384	0.2000	0.1766	
	28 Benzo[a]anthracene	228	11.238	11.238	0.000	100	29259	0.2000	0.1929	
*	29 Chrysene-d12	240	11.252	11.252	0.000	92	111181	1.00	1.00	
	30 Chrysene	228	11.280	11.287	-0.007	100	31111	0.2000	0.2000	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	11.301	11.308	-0.007	100	8621	0.2000	0.1688	
32 Di-n-octyl phthalate	149	12.179	12.186	-0.007	100	11108	0.2000	0.1661	
33 Benzo[b]fluoranthene	252	12.671	12.671	0.000	100	26737	0.2000	0.1944	
34 Benzo[k]fluoranthene	252	12.713	12.713	0.000	100	27946	0.2000	0.1951	
35 Benzo[e]pyrene	252	13.064	13.071	-0.007	100	26038	0.2000	0.1957	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.106	13.113	-0.007	100	18103	0.2000	0.1898	a
37 Benzo[a]pyrene	252	13.141	13.148	-0.007	100	25036	0.2000	0.1952	
* 38 Perylene-d12	264	13.226	13.225	0.001	100	102795	1.00	1.00	a
39 Perylene	252	13.261	13.268	-0.007	100	26694	0.2000	0.2010	
40 Indeno[1,2,3-cd]pyrene	276	14.930	14.937	-0.007	43	19047	0.2000	0.1864	a
41 Dibenz(a,h)anthracene	278	14.987	14.994	-0.007	54	22100	0.2000	0.1844	
42 Benzo[g,h,i]perylene	276	15.425	15.432	-0.007	98	24254	0.2000	0.1958	
S 43 Total PAH	1				0			3.96	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSS_FVSIM_3_00013 Amount Added: 1.00 Units: mL

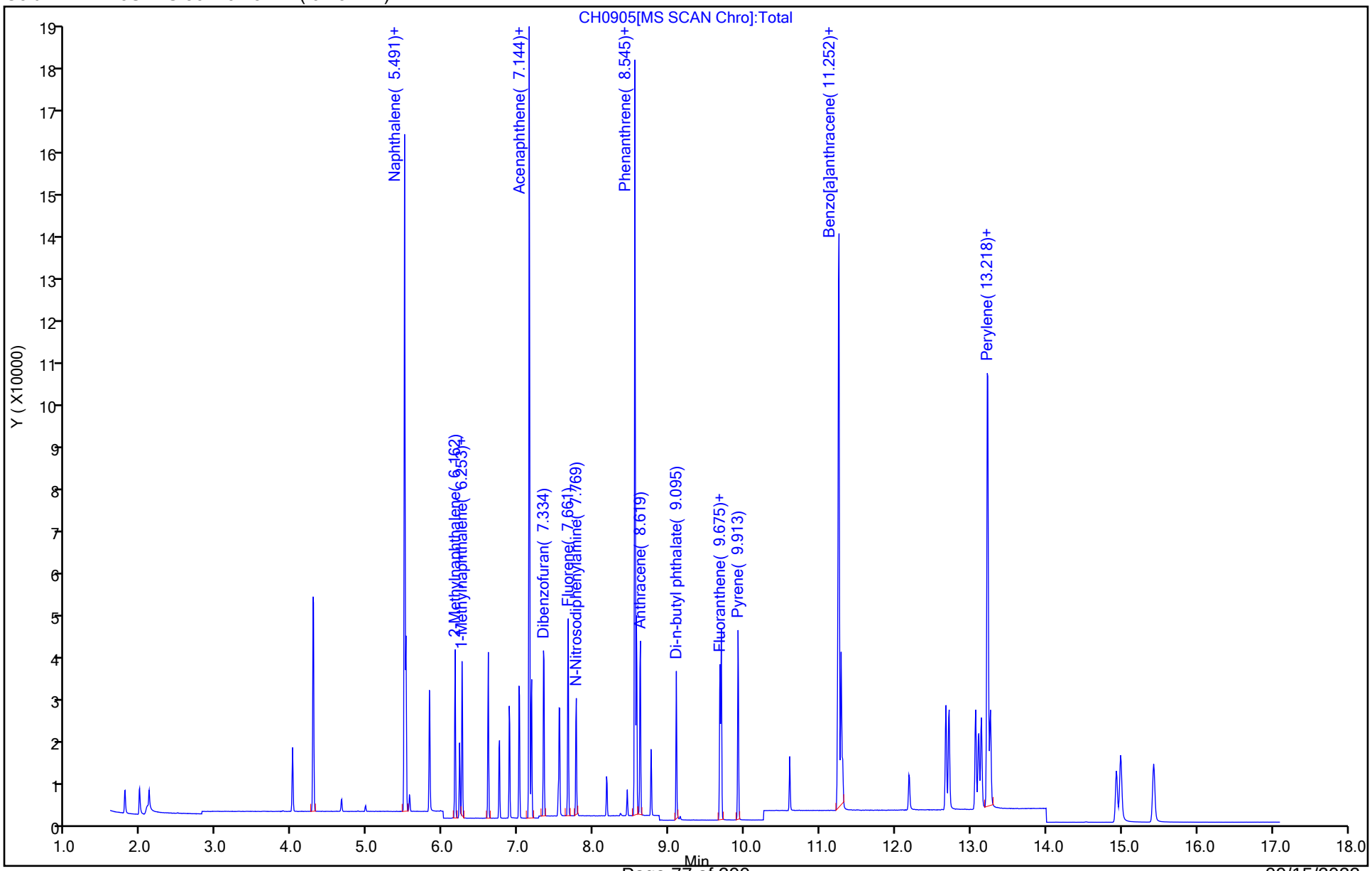
Report Date: 09-Aug-2022 19:35:32 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Lancaster Laboratories Environment Testing, LLC

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Injection Date:	09-Aug-2022 17:00:30	Instrument ID:	HP10623	Operator ID:	apb10206
Lims ID:	IC 3			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8270_SIM_HP10623	Limit Group:	MSSV - 8270D_E SIM		

Column: Rxi-.5SilMS 30m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

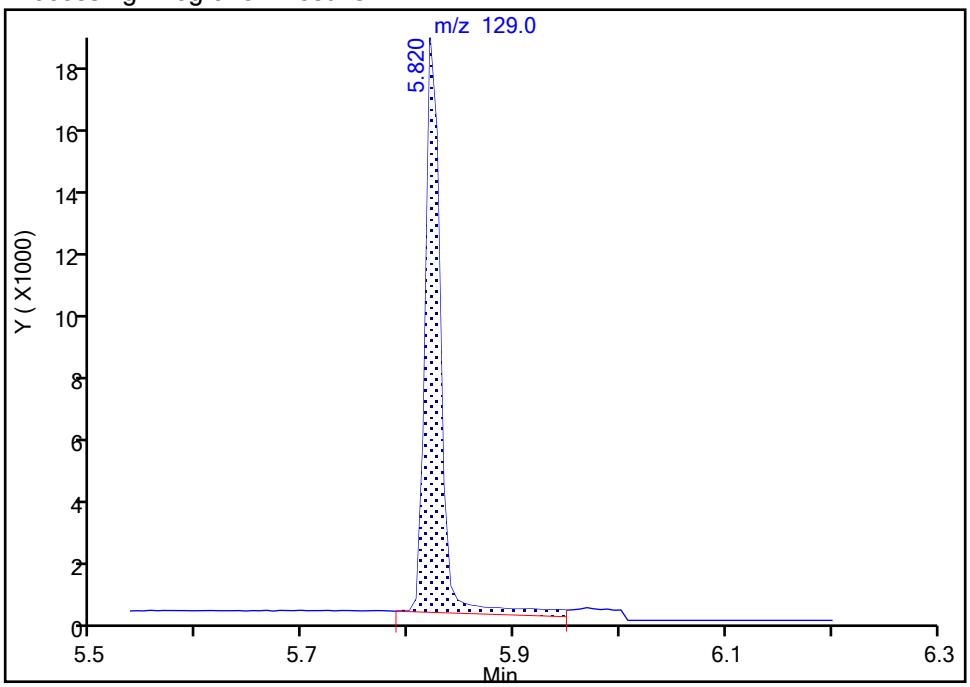
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Lims ID: IC 3
Client ID:
Operator ID: apb10206 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP10623 Limit Group: MSSV - 8270D_E SIM
Column: Rxi-.5SilMS 30m 0.25mm (0.25 mm) Detector MS SCAN

7 Quinoline, CAS: 91-22-5

Signal: 1

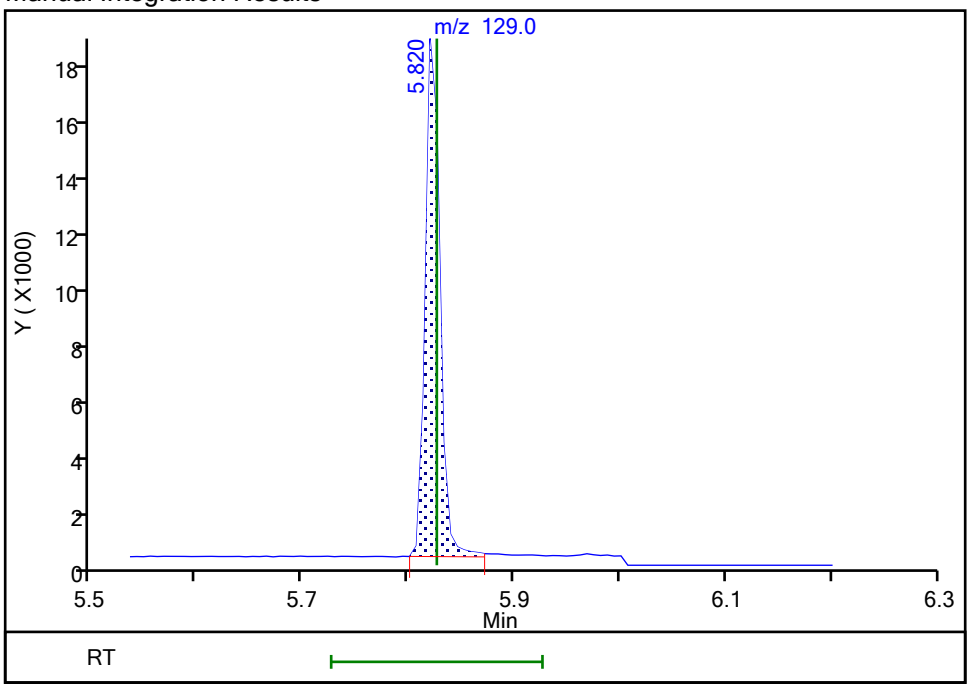
RT: 5.82
Area: 18741
Amount: 0.207588
Amount Units: ug/ml

Processing Integration Results



Manual Integration Results

RT: 5.82
Area: 17513
Amount: 0.202384
Amount Units: ug/ml



Reviewer: SJ89, 09-Aug-2022 17:32:48
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

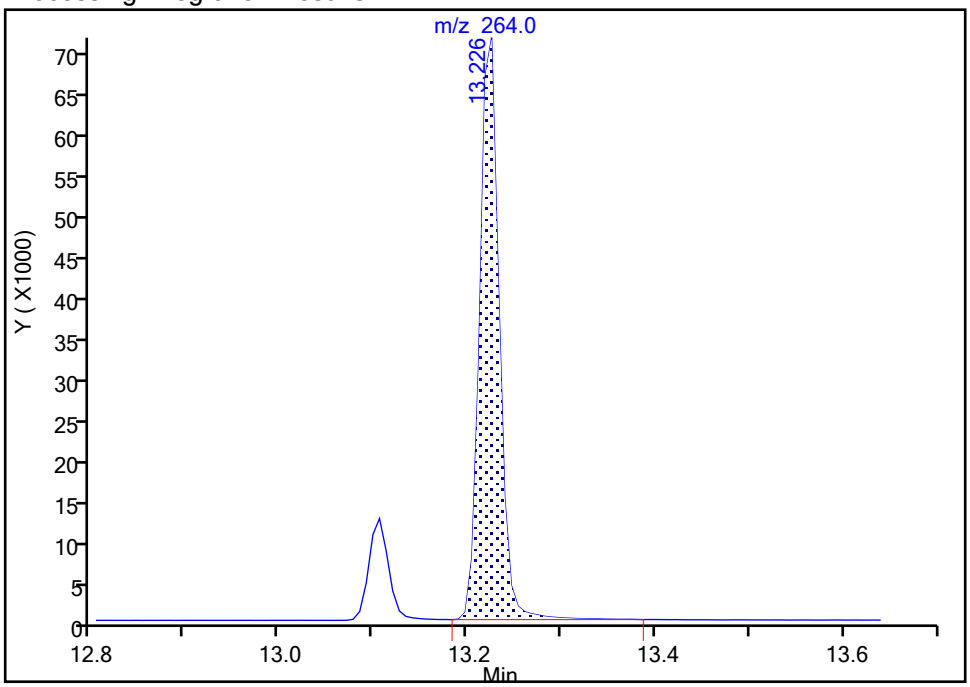
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Lims ID:	IC 3				
Client ID:					
Operator ID:	apb10206	ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP10623	Limit Group:	MSSV - 8270D_E SIM		
Column:	Rxi-.5SilMS 30m 0.25mm (0.25 mm)	Detector	MS SCAN		

$ 36 Benzo(a)pyrene-d12 (Surr), CAS: 63466-71-7

Signal: 1

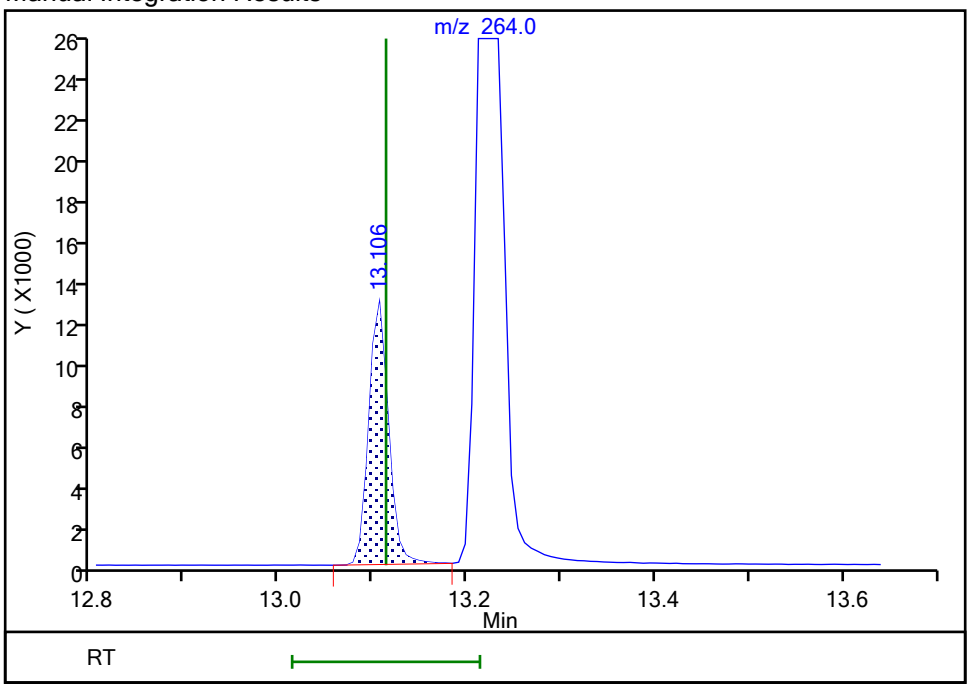
Processing Integration Results

RT: 13.23
Area: 102795
Amount: 0.013717
Amount Units: ug/ml



Manual Integration Results

RT: 13.11
Area: 18103
Amount: 0.189764
Amount Units: ug/ml



Reviewer: SJ89, 09-Aug-2022 18:21:55
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

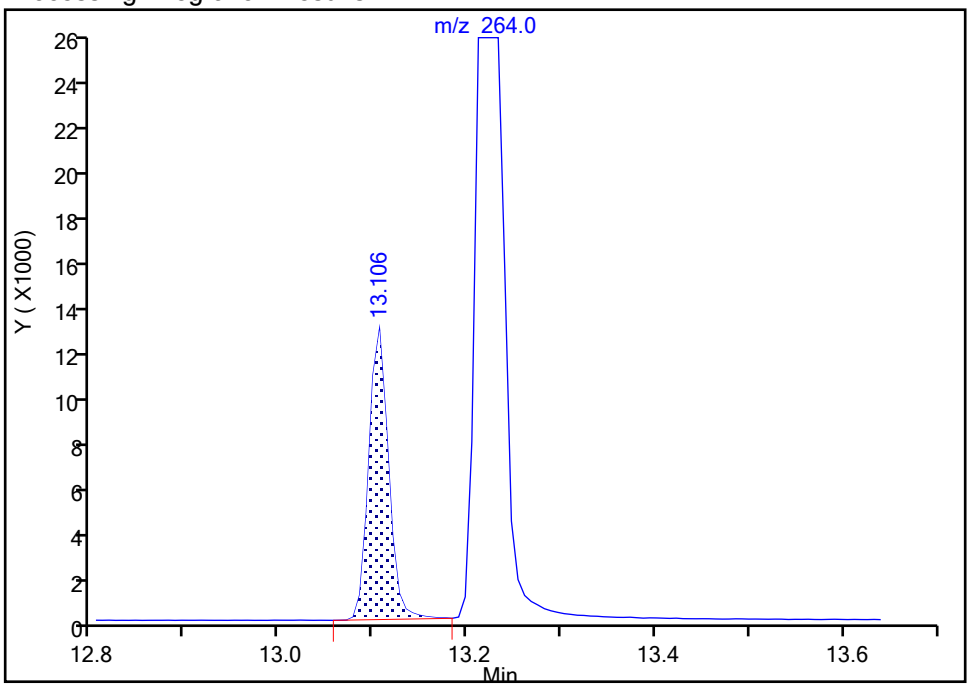
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Injection Date:	09-Aug-2022 17:00:30	Instrument ID:	HP10623		
Lims ID:	IC 3				
Client ID:					
Operator ID:	apb10206	ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP10623	Limit Group:	MSSV - 8270D_E SIM		
Column:	Rxi-.5SilMS 30m 0.25mm (0.25 mm)	Detector	MS SCAN		

* 38 Perylene-d12, CAS: 1520-96-3

Signal: 1

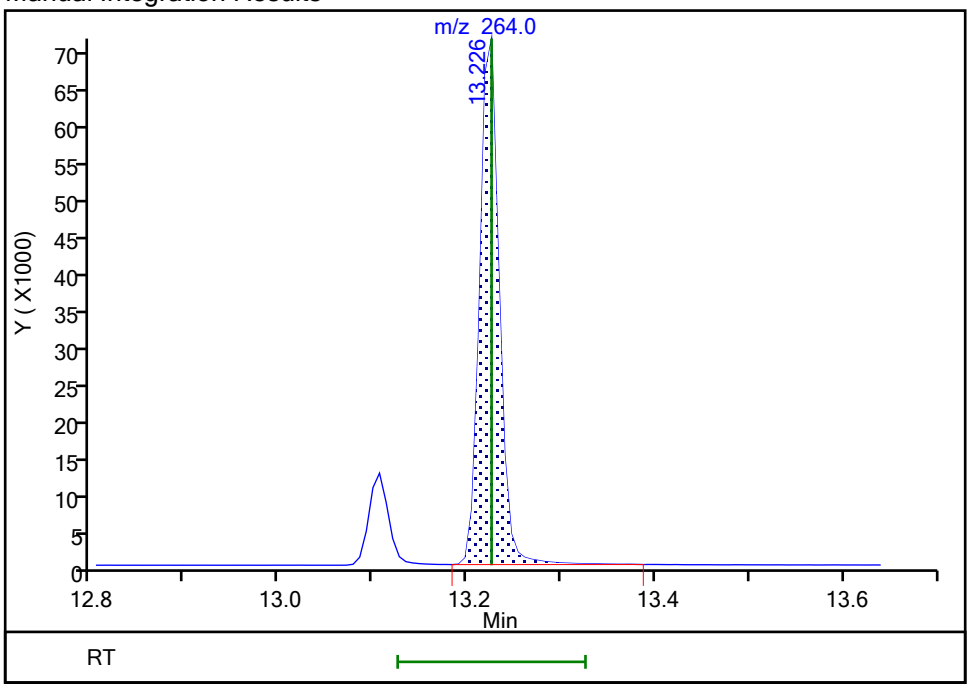
Processing Integration Results

RT: 13.11
Area: 18103
Amount: 1.000000
Amount Units: ug/ml



Manual Integration Results

RT: 13.23
Area: 102795
Amount: 1.000000
Amount Units: ug/ml



Reviewer: SJ89, 09-Aug-2022 18:21:49

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

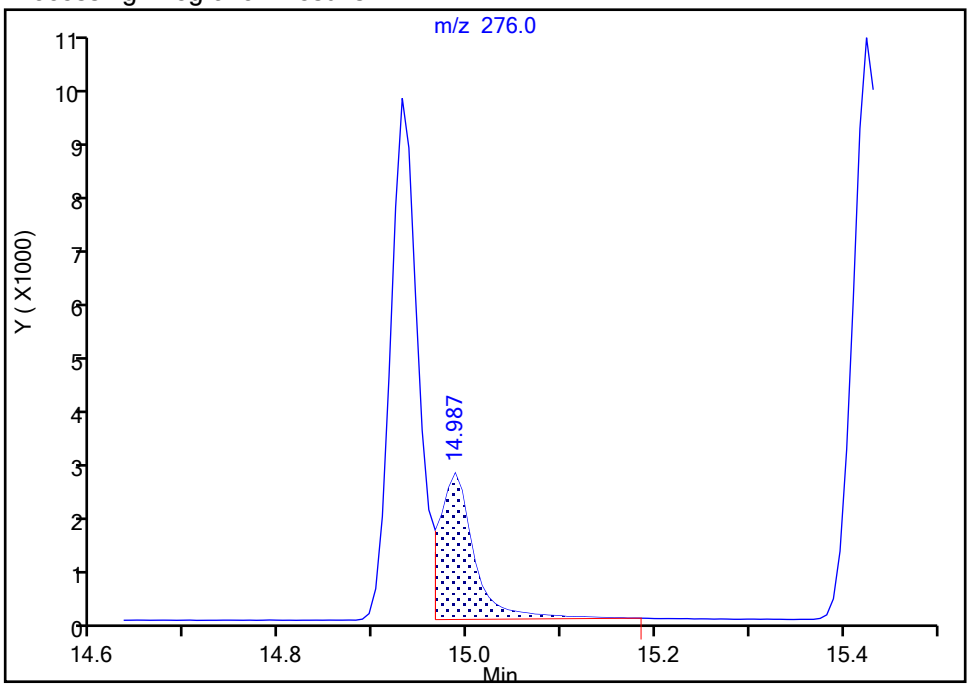
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Injection Date:	09-Aug-2022 17:00:30	Instrument ID:	HP10623		
Lims ID:	IC 3				
Client ID:					
Operator ID:	apb10206	ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP10623	Limit Group:	MSSV - 8270D_E SIM		
Column:	Rxi-.5SilMS 30m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

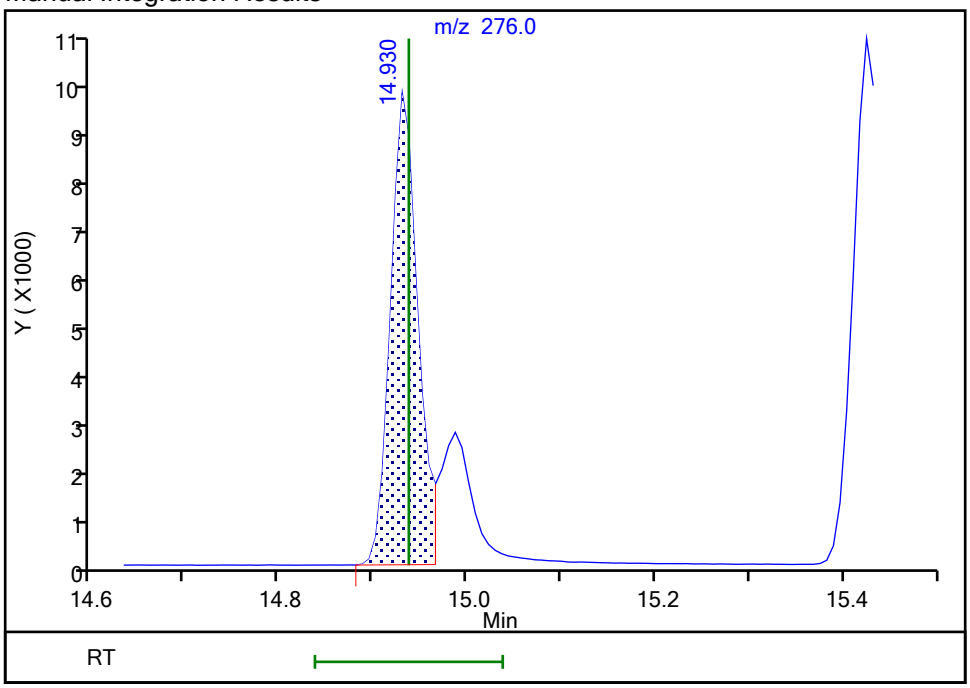
Processing Integration Results

RT: 14.99
Area: 6548
Amount: 0.336457
Amount Units: ug/ml



Manual Integration Results

RT: 14.93
Area: 19047
Amount: 0.186431
Amount Units: ug/ml



Reviewer: SJ89, 09-Aug-2022 17:33:00
Audit Action: Assigned Compound ID Audit Reason: Baseline

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP10623\20220809-63751.b\CH0906.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 09-Aug-2022 17:23:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC 2
Misc. Info.: 410-0063751-007
Operator ID: apb10206 Instrument ID: HP10623
Sublist: chrom-8270_SIM_HP10623*sub4

Method: \\chromfs\Lancaster\ChromData\HP10623\20220809-63751.b\8270_SIM_HP10623.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 09-Aug-2022 19:35:33 Calib Date: 09-Aug-2022 17:46:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP10623\20220809-63751.b\CH0907.D

Column 1 : Rxi-.5SilMS 30m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1609

First Level Reviewer: SJ89 Date: 09-Aug-2022 17:55:15

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.784	1.797	-0.013	89	887	0.0500	0.0500	
2 N-Nitrosodimethylamine	74	1.981	1.990	-0.009	90	975	0.0500	0.0463	
3 Bis(2-chloroethyl)ether	93	4.006	4.012	-0.006	85	2010	0.0500	0.0492	
* 4 1,4-Dichlorobenzene-d4	152	4.283	4.283	0.000	75	33694	1.00	1.00	
* 5 Naphthalene-d8	136	5.491	5.491	0.000	51	131211	1.00	1.00	
6 Naphthalene	128	5.510	5.510	0.000	96	6634	0.0500	0.0488	
7 Quinoline	129	5.820	5.826	-0.006	0	4209	0.0500	0.0472	
8 2-Methylnaphthalene	142	6.162	6.162	0.000	72	4238	0.0500	0.0481	
$ 9 1-Methylnaphthalene-d10	152	6.220	6.220	0.000	76	3229	0.0500	0.0490	
10 1-Methylnaphthalene	142	6.253	6.259	-0.006	68	3975	0.0500	0.0481	
11 Dimethyl phthalate	163	6.879	6.886	-0.007	99	4489	0.0500	0.0473	
12 Acenaphthylene	152	7.015	7.015	0.000	74	6370	0.0500	0.0479	
* 13 Acenaphthene-d10	164	7.144	7.151	-0.006	91	68317	1.00	1.00	
14 Acenaphthene	154	7.176	7.176	0.000	54	3915	0.0500	0.0480	
15 Dibenzofuran	168	7.340	7.340	0.000	96	5959	0.0500	0.0485	
16 Diethyl phthalate	149	7.541	7.548	-0.007	65	4501	0.0500	0.0464	
17 Fluorene	166	7.661	7.661	0.000	89	4638	0.0500	0.0474	
18 N-Nitrosodiphenylamine	169	7.769	7.768	0.000	62	3375	0.0500	0.0523	
19 Hexachlorobenzene	284	8.177	8.177	0.000	93	1221	0.0500	0.0482	
* 20 Phenanthrene-d10	188	8.545	8.552	-0.007	96	132040	1.00	1.00	
21 Phenanthrene	178	8.565	8.572	-0.007	87	7352	0.0500	0.0484	
22 Anthracene	178	8.618	8.618	0.000	90	6906	0.0500	0.0469	
23 Di-n-butyl phthalate	149	9.095	9.095	0.000	80	6038	0.0500	0.0417	
$ 24 Fluoranthene-d10 (Surr)	212	9.675	9.675	0.000	77	6631	0.0500	0.0469	
25 Fluoranthene	202	9.691	9.697	-0.006	99	7801	0.0500	0.0463	
26 Pyrene	202	9.913	9.919	-0.006	99	8151	0.0500	0.0483	
27 Butyl benzyl phthalate	149	10.599	10.599	0.000	100	1273	0.0500	0.0433	
28 Benzo[a]anthracene	228	11.238	11.238	0.000	47	7072	0.0500	0.0466	
* 29 Chrysene-d12	240	11.252	11.252	0.000	91	111207	1.00	1.00	
30 Chrysene	228	11.280	11.287	-0.007	100	7530	0.0500	0.0484	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	11.301	11.308	-0.007	100	1890	0.0500	0.0411	
32 Di-n-octyl phthalate	149	12.179	12.186	-0.007	100	2425	0.0500	0.0412	
33 Benzo[b]fluoranthene	252	12.671	12.671	0.000	100	6210	0.0500	0.0457	
34 Benzo[k]fluoranthene	252	12.713	12.713	0.000	100	6304	0.0500	0.0445	
35 Benzo[e]pyrene	252	13.064	13.071	-0.007	100	6129	0.0500	0.0466	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.106	13.113	-0.007	100	4058	0.0500	0.0431	a
37 Benzo[a]pyrene	252	13.141	13.148	-0.007	100	5578	0.0500	0.0440	
* 38 Perylene-d12	264	13.225	13.225	0.000	100	101548	1.00	1.00	a
39 Perylene	252	13.261	13.268	-0.007	99	6285	0.0500	0.0479	
40 Indeno[1,2,3-cd]pyrene	276	14.930	14.937	-0.007	43	4202	0.0500	0.0416	a
41 Dibenz(a,h)anthracene	278	14.987	14.994	-0.007	57	4564	0.0500	0.0385	
42 Benzo[g,h,i]perylene	276	15.425	15.432	-0.007	98	5608	0.0500	0.0458	
S 43 Total PAH	1				0			0.9281	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

MSS_FVSIM_2_00014 Amount Added: 1.00 Units: mL

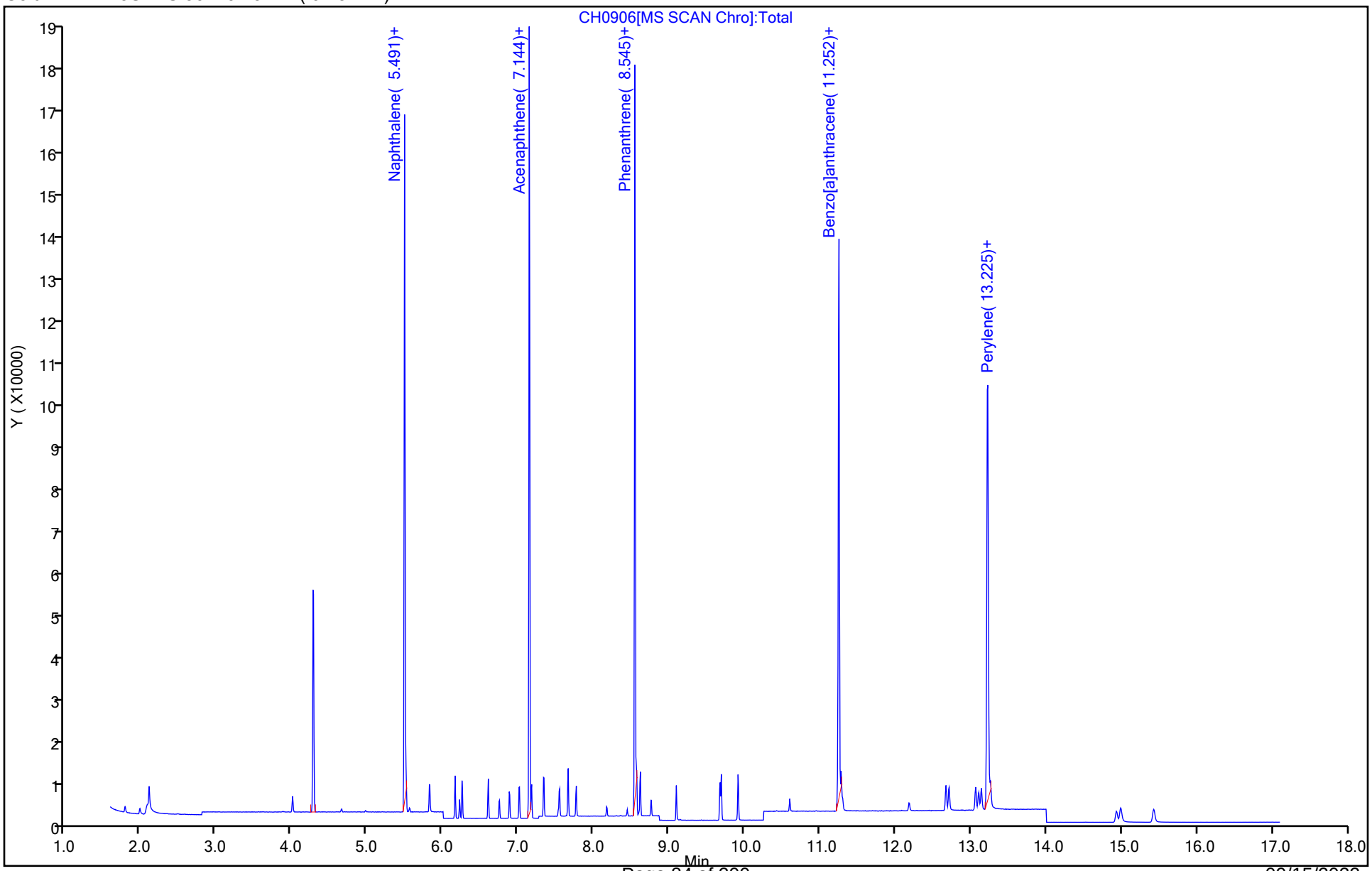
Report Date: 09-Aug-2022 19:35:34 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Lancaster Laboratories Environment Testing, LLC

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Injection Date:	09-Aug-2022 17:23:30	Instrument ID:	HP10623	Operator ID:	apb10206
Lims ID:	IC 2			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8270_SIM_HP10623	Limit Group:	MSSV - 8270D_E SIM		

Column: Rxi-.5SilMS 30m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

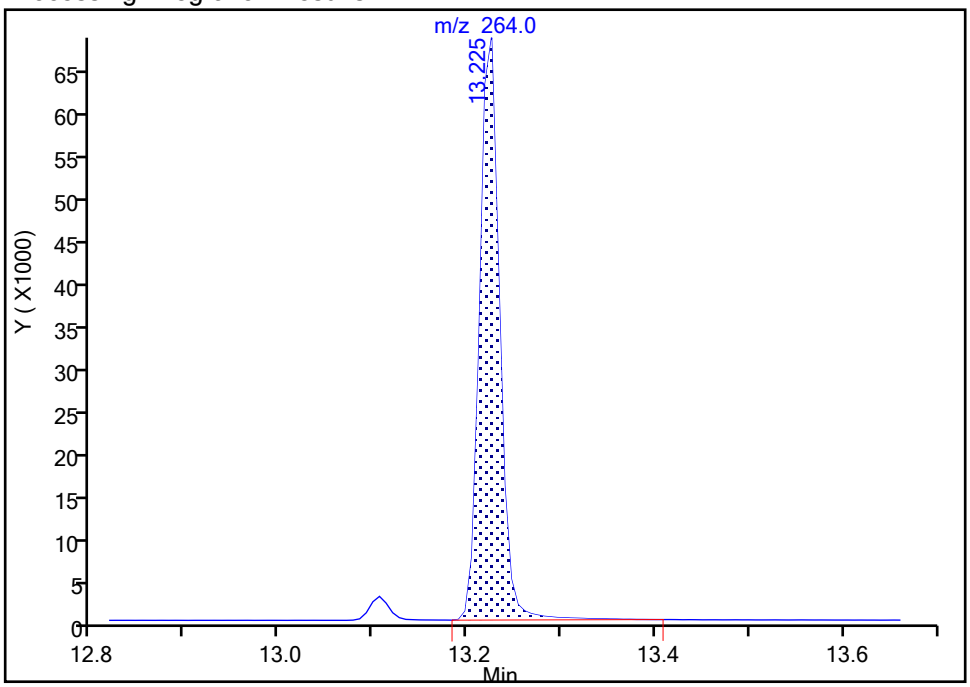
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Lims ID:	IC 2				
Client ID:					
Operator ID:	apb10206	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP10623	Limit Group:	MSSV - 8270D_E SIM		
Column:	Rxi-.5SilMS 30m 0.25mm (0.25 mm)	Detector	MS SCAN		

$ 36 Benzo(a)pyrene-d12 (Surr), CAS: 63466-71-7

Signal: 1

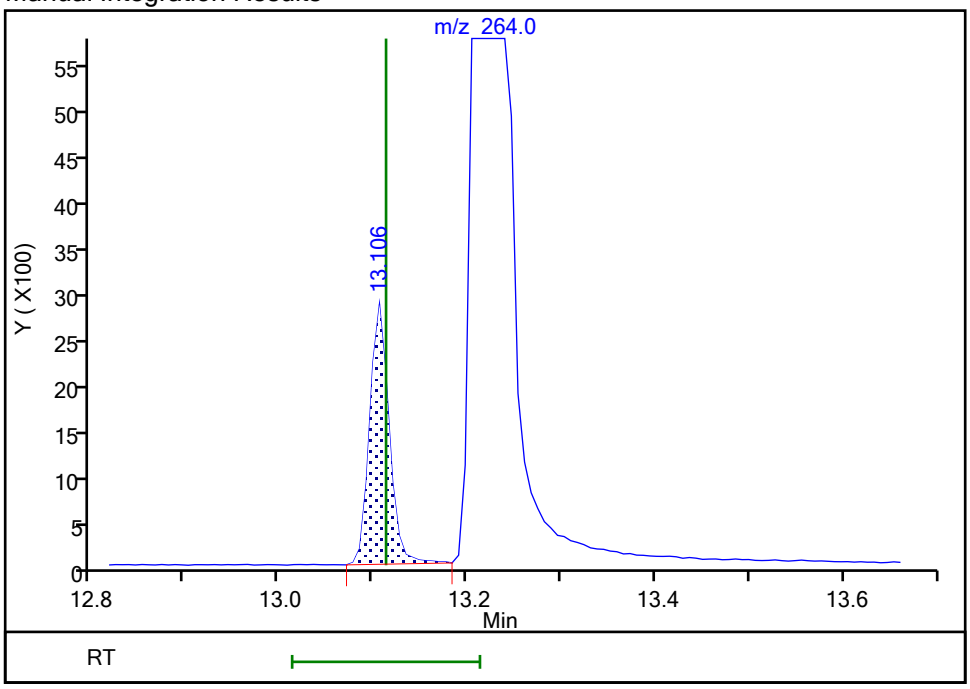
Processing Integration Results

RT: 13.23
Area: 101548
Amount: 0.272405
Amount Units: ug/ml



Manual Integration Results

RT: 13.11
Area: 4058
Amount: 0.043060
Amount Units: ug/ml



Reviewer: SJ89, 09-Aug-2022 18:29:47

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

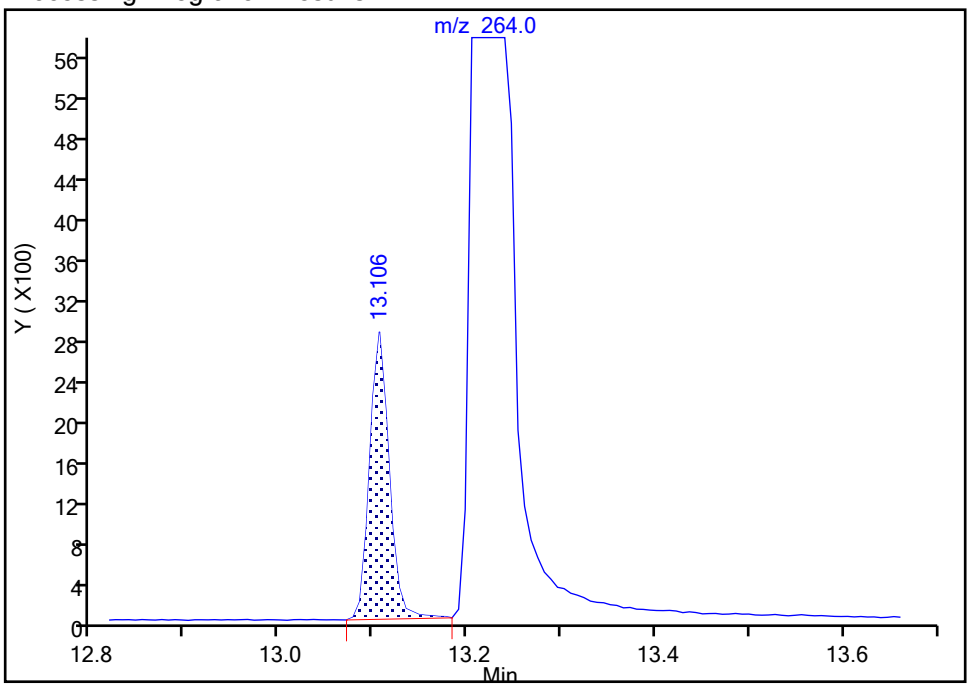
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Injection Date:	09-Aug-2022 17:23:30	Instrument ID:	HP10623		
Lims ID:	IC 2				
Client ID:					
Operator ID:	apb10206	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP10623	Limit Group:	MSSV - 8270D_E SIM		
Column:	Rxi-.5SilMS 30m 0.25mm (0.25 mm)	Detector	MS SCAN		

* 38 Perylene-d12, CAS: 1520-96-3

Signal: 1

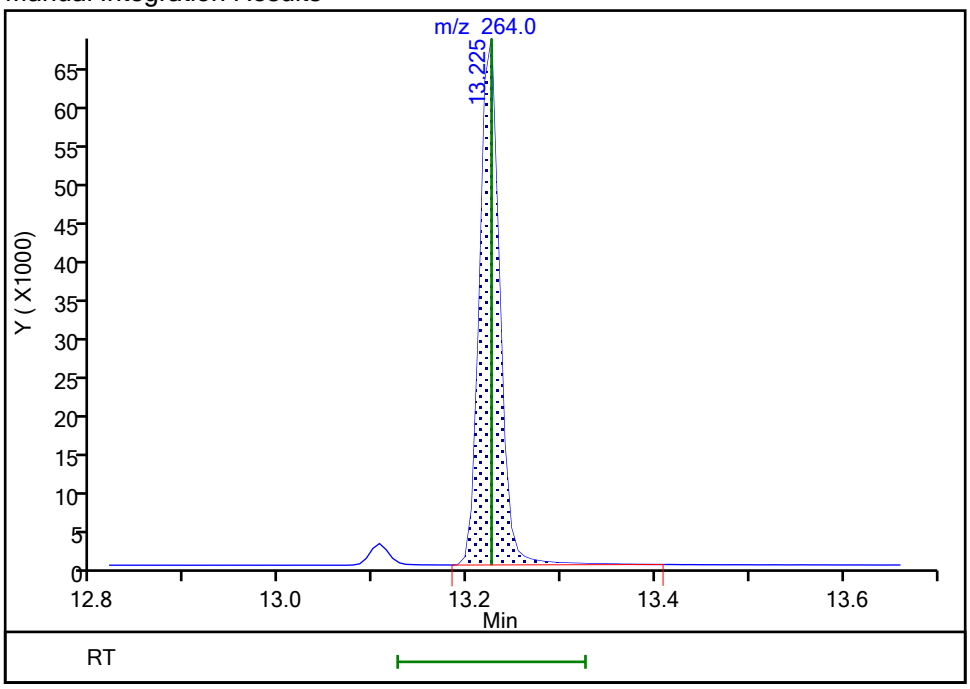
Processing Integration Results

RT: 13.11
Area: 4058
Amount: 1.000000
Amount Units: ug/ml



Manual Integration Results

RT: 13.23
Area: 101548
Amount: 1.000000
Amount Units: ug/ml



Reviewer: SJ89, 09-Aug-2022 18:29:42

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

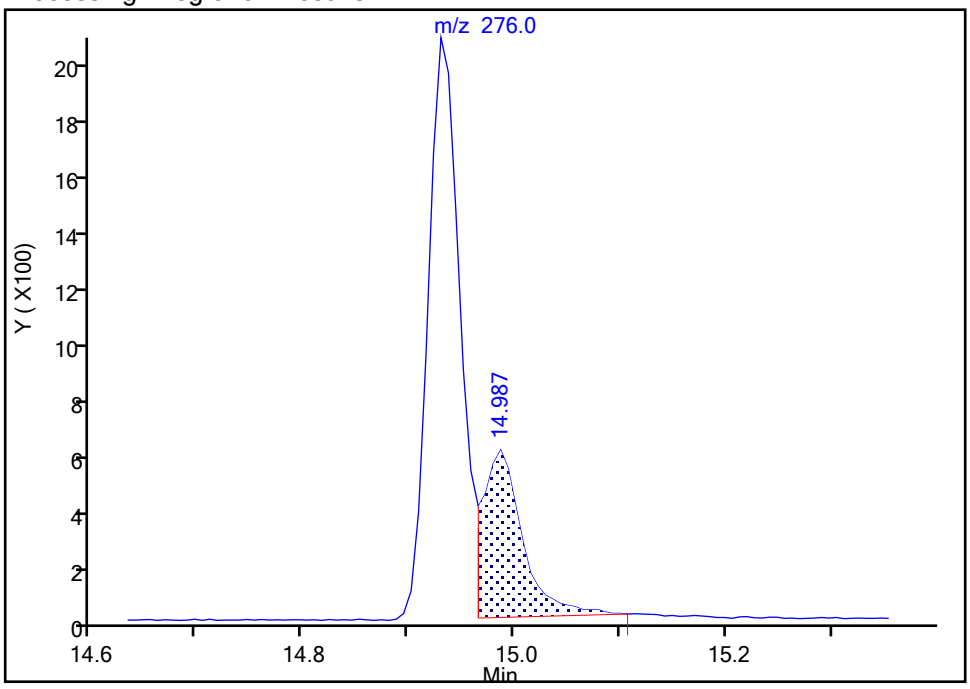
Data File:	\\chromfs\Lancaster\ChromData\HP10623\20220809-63751.b\CH0906.D				
Injection Date:	09-Aug-2022 17:23:30	Instrument ID:	HP10623		
Lims ID:	IC 2				
Client ID:					
Operator ID:	apb10206	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP10623	Limit Group:	MSSV - 8270D_E SIM		
Column:	Rxi-.5SilMS 30m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

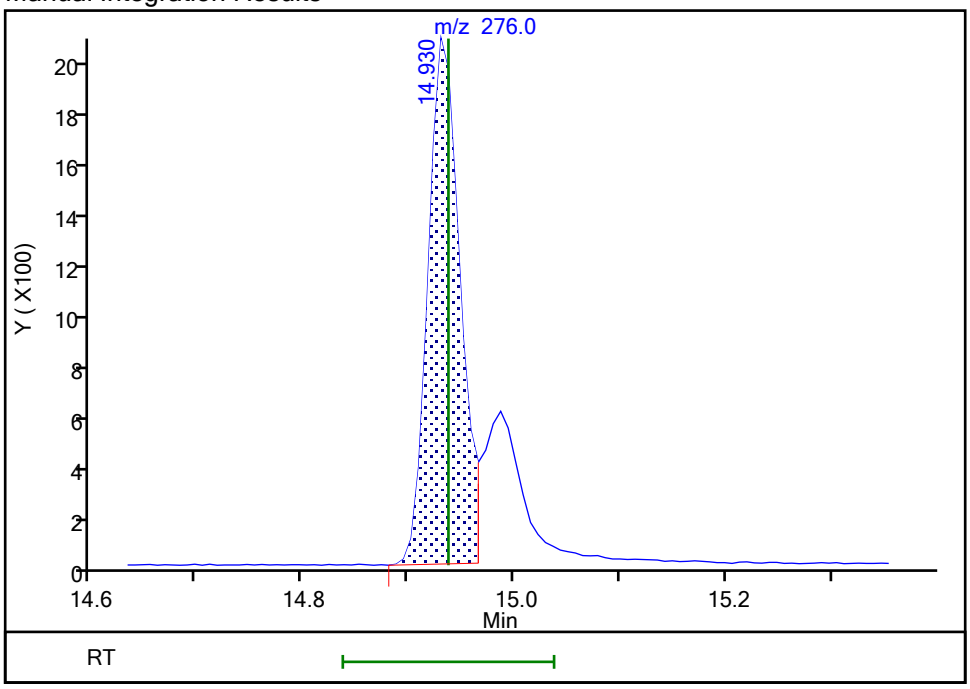
Processing Integration Results

RT: 14.99
Area: 1466
Amount: 0.135029
Amount Units: ug/ml



Manual Integration Results

RT: 14.93
Area: 4202
Amount: 0.041634
Amount Units: ug/ml



Reviewer: SJ89, 09-Aug-2022 17:51:49
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP10623\20220809-63751.b\CH0907.D
Lims ID: IC 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 09-Aug-2022 17:46:30 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC 1
Misc. Info.: 410-0063751-008
Operator ID: apb10206 Instrument ID: HP10623
Sublist: chrom-8270_SIM_HP10623*sub4

Method: \\chromfs\Lancaster\ChromData\HP10623\20220809-63751.b\8270_SIM_HP10623.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 09-Aug-2022 19:35:39 Calib Date: 09-Aug-2022 17:46:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP10623\20220809-63751.b\CH0907.D

Column 1 : Rxi-.5SilMS 30m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1609

First Level Reviewer: SJ89 Date: 09-Aug-2022 19:35:39

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	2 N-Nitrosodimethylamine	74	1.986	1.986	0.000	74	164	0.0100	0.007868	
	3 Bis(2-chloroethyl)ether	93	4.006	4.006	0.000	83	377	0.0100	0.009367	
*	4 1,4-Dichlorobenzene-d4	152	4.283	4.283	0.000	78	33362	1.00	1.00	
*	5 Naphthalene-d8	136	5.491	5.491	0.000	51	129208	1.00	1.00	
	6 Naphthalene	128	5.510	5.510	0.000	94	1145	0.0100	0.008552	
	7 Quinoline	129	5.826	5.826	0.000	0	801	0.0100	0.009113	M
	8 2-Methylnaphthalene	142	6.162	6.162	0.000	70	713	0.0100	0.008219	
$	9 1-Methylnaphthalene-d10	152	6.220	6.220	0.000	76	578	0.0100	0.008901	
	10 1-Methylnaphthalene	142	6.253	6.253	0.000	69	704	0.0100	0.008645	
	11 Dimethyl phthalate	163	6.879	6.879	0.000	99	870	0.0100	0.009342	
	12 Acenaphthylene	152	7.015	7.015	0.000	74	1133	0.0100	0.008671	
*	13 Acenaphthene-d10	164	7.144	7.144	0.000	91	67064	1.00	1.00	
	14 Acenaphthene	154	7.176	7.176	0.000	39	694	0.0100	0.008671	
	15 Dibenzofuran	168	7.340	7.340	0.000	96	1102	0.0100	0.009141	M
	16 Diethyl phthalate	149	7.541	7.541	0.000	66	919	0.0100	0.009642	
	17 Fluorene	166	7.661	7.661	0.000	89	884	0.0100	0.009211	
	18 N-Nitrosodiphenylamine	169	7.769	7.769	0.000	63	701	0.0100	0.0109	
	19 Hexachlorobenzene	284	8.177	8.177	0.000	85	259	0.0100	0.0103	
*	20 Phenanthrene-d10	188	8.545	8.545	0.000	96	131166	1.00	1.00	
	21 Phenanthrene	178	8.565	8.565	0.000	87	1446	0.0100	0.009589	
	22 Anthracene	178	8.619	8.619	0.000	91	1341	0.0100	0.009177	
	23 Di-n-butyl phthalate	149	9.095	9.095	0.000	80	1262	0.0100	0.008784	
$	24 Fluoranthene-d10 (Surr)	212	9.675	9.675	0.000	77	1323	0.0100	0.009415	
	25 Fluoranthene	202	9.691	9.691	0.000	99	1582	0.0100	0.009457	
	26 Pyrene	202	9.913	9.913	0.000	99	1638	0.0100	0.009855	
	27 Butyl benzyl phthalate	149	10.599	10.599	0.000	100	293	0.0100	0.0112	
	28 Benzo[a]anthracene	228	11.238	11.238	0.000	17	1627	0.0100	0.0109	
*	29 Chrysene-d12	240	11.252	11.252	0.000	91	109593	1.00	1.00	
	30 Chrysene	228	11.280	11.280	0.000	99	1551	0.0100	0.0101	
	31 Bis(2-ethylhexyl) phthalate	149	11.301	11.301	0.000	99	387	0.0100	0.0122	M

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
32 Di-n-octyl phthalate	149	12.179	12.179	0.000	100	466	0.0100	0.0119	M
33 Benzo[b]fluoranthene	252	12.671	12.671	0.000	100	1210	0.0100	0.009044	
34 Benzo[k]fluoranthene	252	12.713	12.713	0.000	100	1185	0.0100	0.008504	
35 Benzo[e]pyrene	252	13.064	13.064	0.000	100	1235	0.0100	0.009543	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.106	13.106	0.000	98	802	0.0100	0.008644	a
37 Benzo[a]pyrene	252	13.141	13.141	0.000	100	1058	0.0100	0.008479	
* 38 Perylene-d12	264	13.226	13.226	0.000	100	99978	1.00	1.00	a
39 Perylene	252	13.261	13.261	0.000	97	1202	0.0100	0.009307	
40 Indeno[1,2,3-cd]pyrene	276	14.930	14.930	0.000	43	807	0.0100	0.008121	M
41 Dibenz(a,h)anthracene	278	14.994	14.994	0.000	54	846	0.0100	0.007256	
42 Benzo[g,h,i]perylene	276	15.425	15.425	0.000	98	988	0.0100	0.008201	
S 43 Total PAH	1				0			0.1795	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSS_FVSIM_1_00013 Amount Added: 1.00 Units: mL

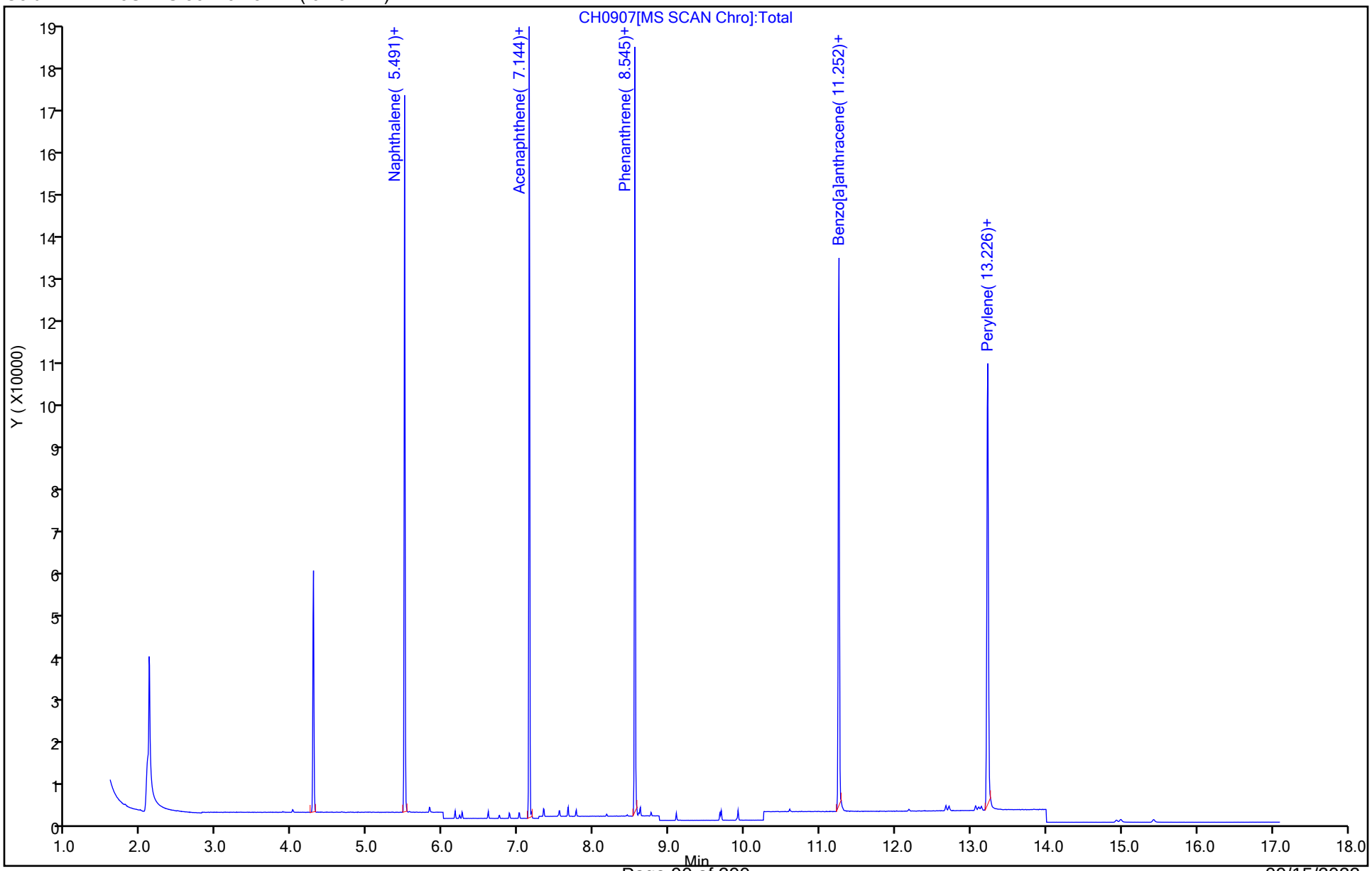
Report Date: 09-Aug-2022 19:35:39 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP10623\20220809-63751.b\CH0907.D

Injection Date:	09-Aug-2022 17:46:30	Instrument ID:	HP10623	Operator ID:	apb10206
Lims ID:	IC 1			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8270_SIM_HP10623	Limit Group:	MSSV - 8270D_E SIM		

Column: Rxi-.5SilMS 30m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

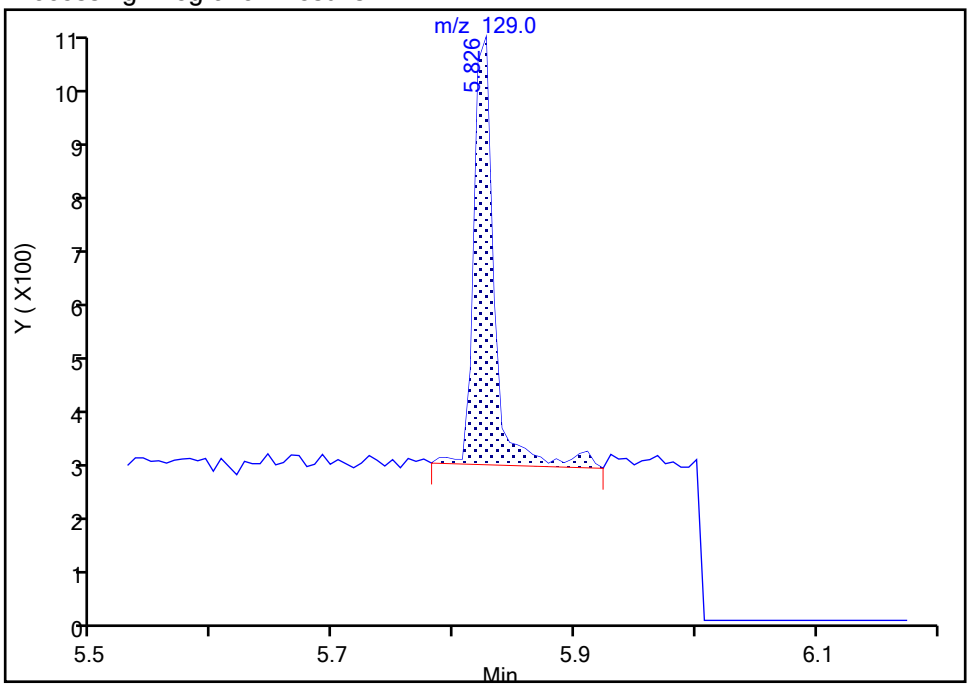
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Injection Date:	09-Aug-2022 17:46:30	Instrument ID:	HP10623		
Lims ID:	IC 1				
Client ID:					
Operator ID:	apb10206	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP10623	Limit Group:	MSSV - 8270D_E SIM		
Column:	Rxi-.5SilMS 30m 0.25mm (0.25 mm)	Detector	MS SCAN		

7 Quinoline, CAS: 91-22-5

Signal: 1

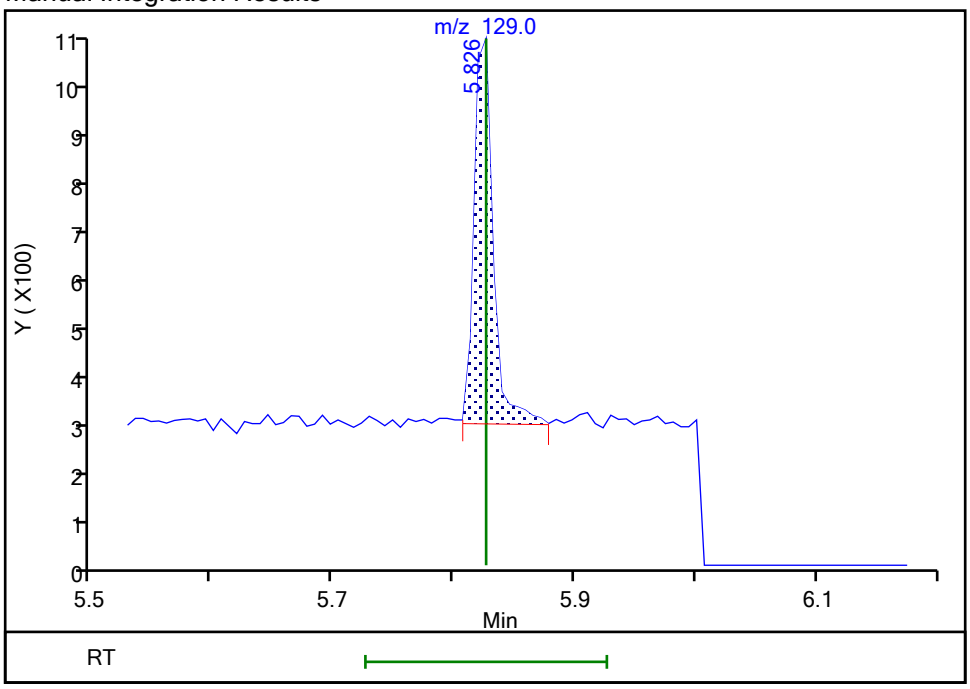
Processing Integration Results

RT: 5.83
Area: 858
Amount: 0.009672
Amount Units: ug/ml



Manual Integration Results

RT: 5.83
Area: 801
Amount: 0.009113
Amount Units: ug/ml



Reviewer: SJ89, 09-Aug-2022 18:18:10
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

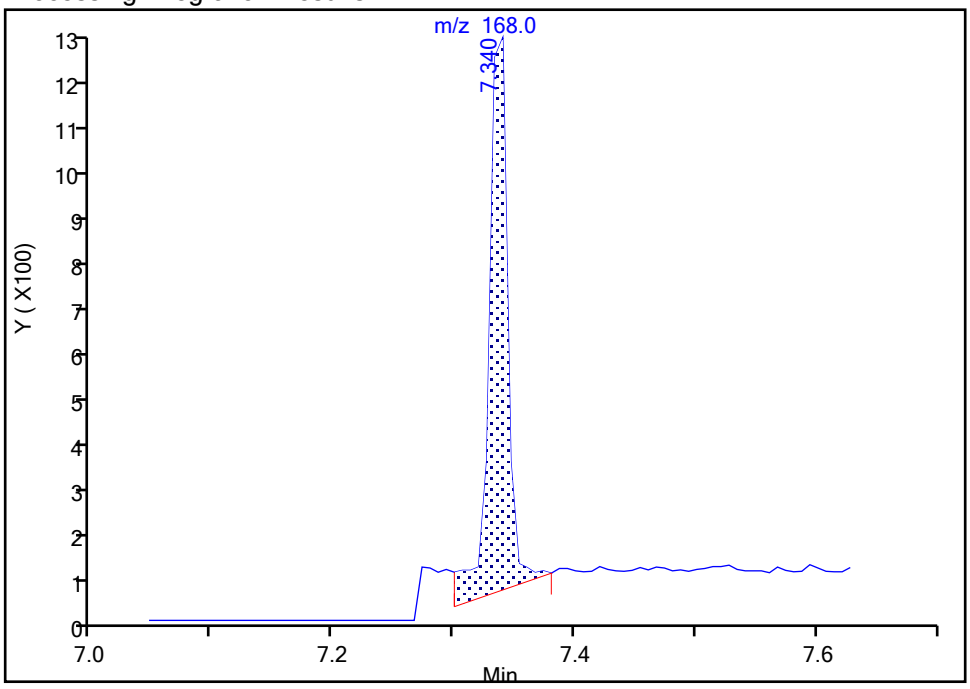
Data File:	\\chromfs\Lancaster\ChromData\HP10623\20220809-63751.b\CH0907.D				
Injection Date:	09-Aug-2022 17:46:30	Instrument ID:	HP10623		
Lims ID:	IC 1				
Client ID:					
Operator ID:	apb10206	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP10623	Limit Group:	MSSV - 8270D_E SIM		
Column:	Rxi-.5SilMS 30m 0.25mm (0.25 mm)	Detector	MS SCAN		

15 Dibenzofuran, CAS: 132-64-9

Signal: 1

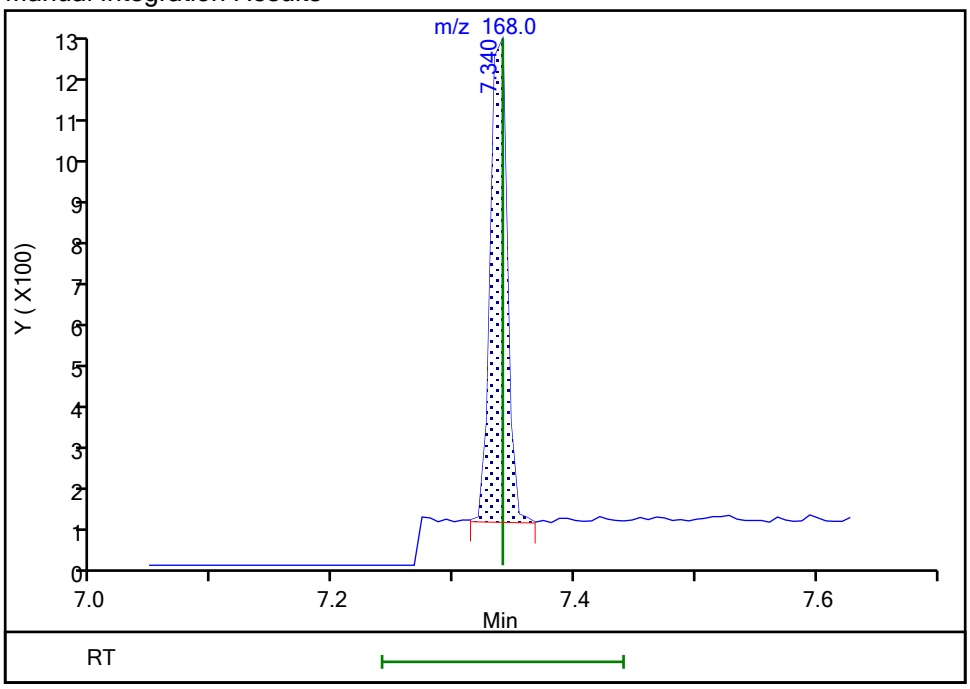
Processing Integration Results

RT: 7.34
Area: 1281
Amount: 0.010405
Amount Units: ug/ml



Manual Integration Results

RT: 7.34
Area: 1102
Amount: 0.009141
Amount Units: ug/ml



Reviewer: SJ89, 09-Aug-2022 18:18:18

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

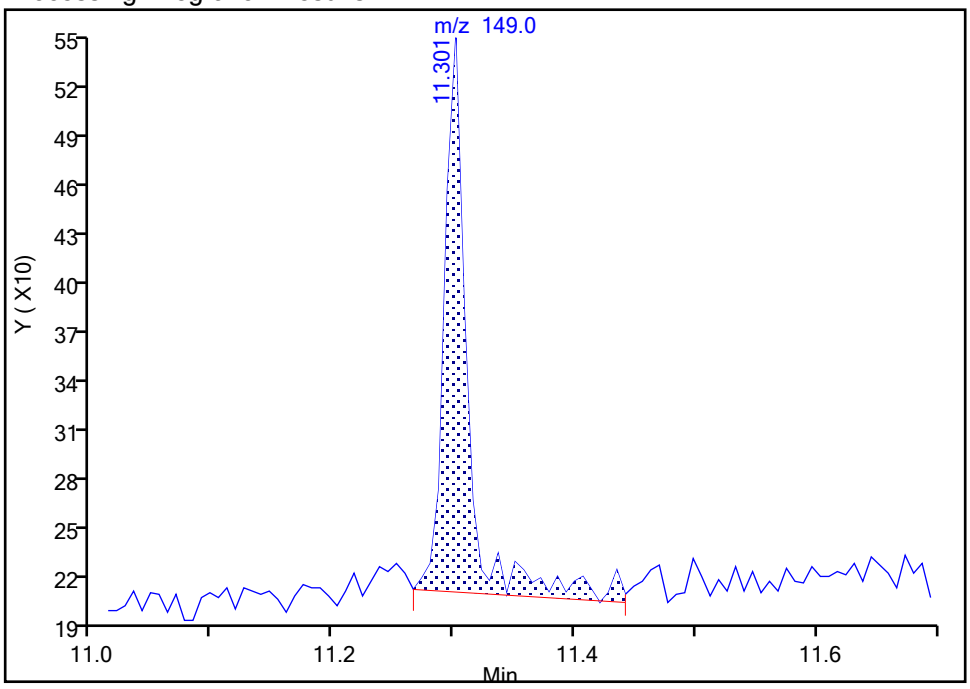
Data File: \\chromfs\Lancaster\ChromData\HP10623\20220809-63751.b\CH0907.D
Injection Date: 09-Aug-2022 17:46:30 Instrument ID: HP10623
Lims ID: IC 1
Client ID:
Operator ID: apb10206 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP10623 Limit Group: MSSV - 8270D_E SIM
Column: Rxi-.5SilMS 30m 0.25mm (0.25 mm) Detector MS SCAN

31 Bis(2-ethylhexyl) phthalate, CAS: 117-81-7

Signal: 1

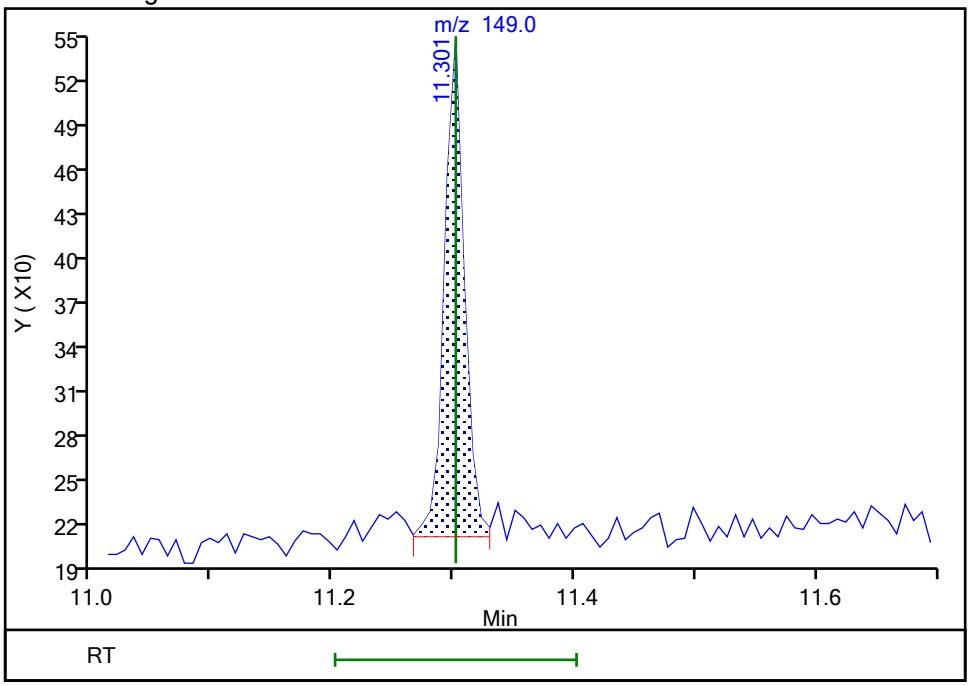
Processing Integration Results

RT: 11.30
Area: 459
Amount: 0.007905
Amount Units: ug/ml



Manual Integration Results

RT: 11.30
Area: 387
Amount: 0.012208
Amount Units: ug/ml



Reviewer: SJ89, 09-Aug-2022 18:18:30
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

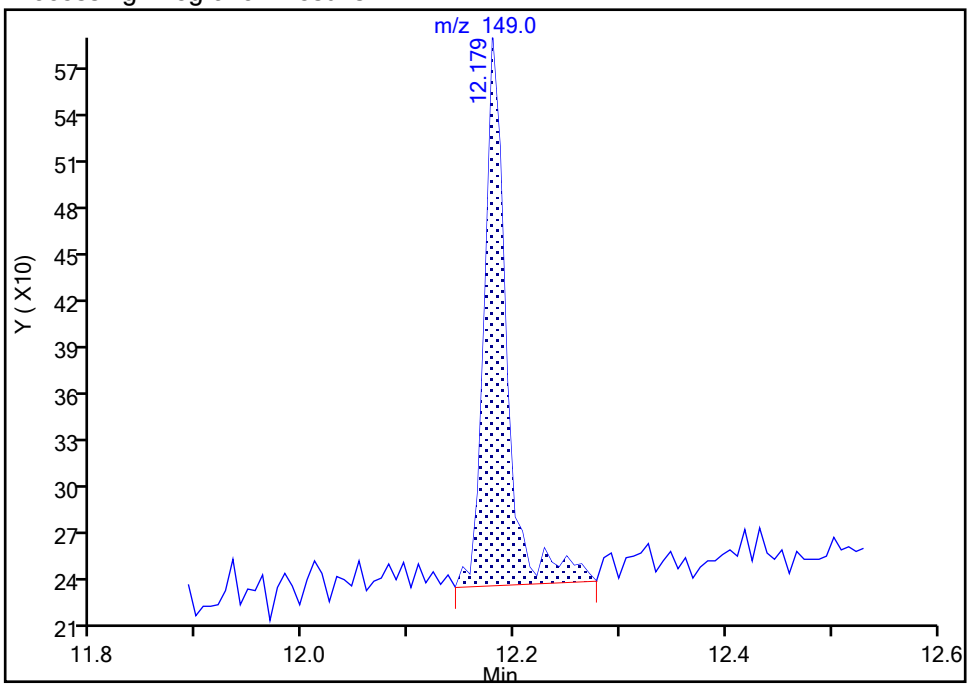
Data File:	\\chromfs\Lancaster\ChromData\HP10623\20220809-63751.b\CH0907.D				
Injection Date:	09-Aug-2022 17:46:30	Instrument ID:	HP10623		
Lims ID:	IC 1				
Client ID:					
Operator ID:	apb10206	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP10623	Limit Group:	MSSV - 8270D_E SIM		
Column:	Rxi-.5SilMS 30m 0.25mm (0.25 mm)	Detector	MS SCAN		

32 Di-n-octyl phthalate, CAS: 117-84-0

Signal: 1

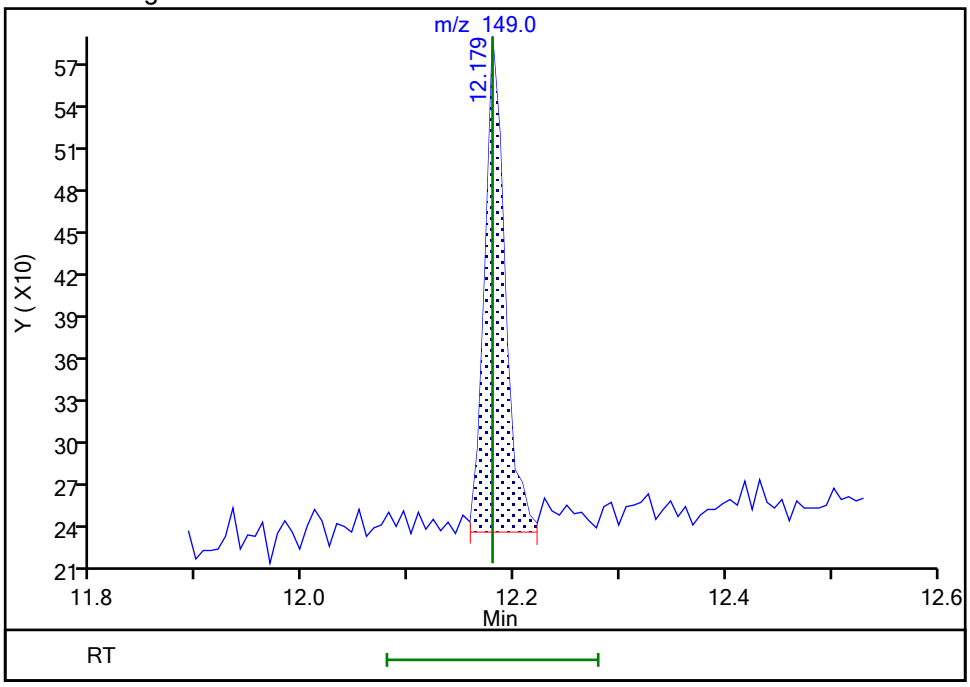
Processing Integration Results

RT: 12.18
Area: 511
Amount: 0.054610
Amount Units: ug/ml



Manual Integration Results

RT: 12.18
Area: 466
Amount: 0.011904
Amount Units: ug/ml



Reviewer: SJ89, 09-Aug-2022 18:18:38

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

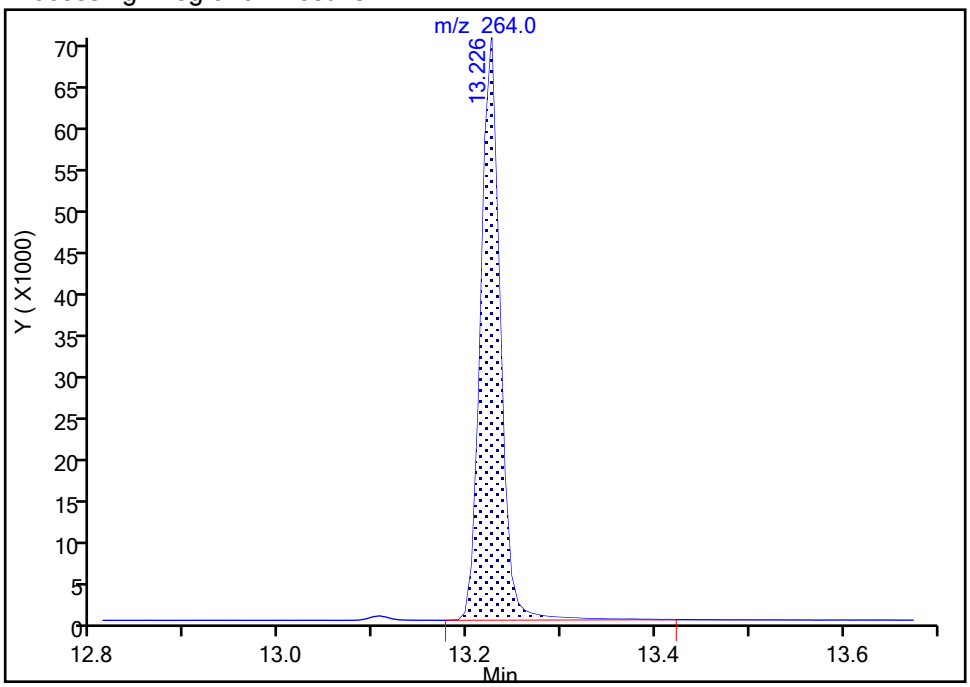
Data File:	\\chromfs\Lancaster\ChromData\HP10623\20220809-63751.b\CH0907.D				
Injection Date:	09-Aug-2022 17:46:30	Instrument ID:	HP10623		
Lims ID:	IC 1				
Client ID:					
Operator ID:	apb10206	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP10623	Limit Group:	MSSV - 8270D_E SIM		
Column:	Rxi-.5SilMS 30m 0.25mm (0.25 mm)	Detector	MS SCAN		

$ 36 Benzo(a)pyrene-d12 (Surr), CAS: 63466-71-7

Signal: 1

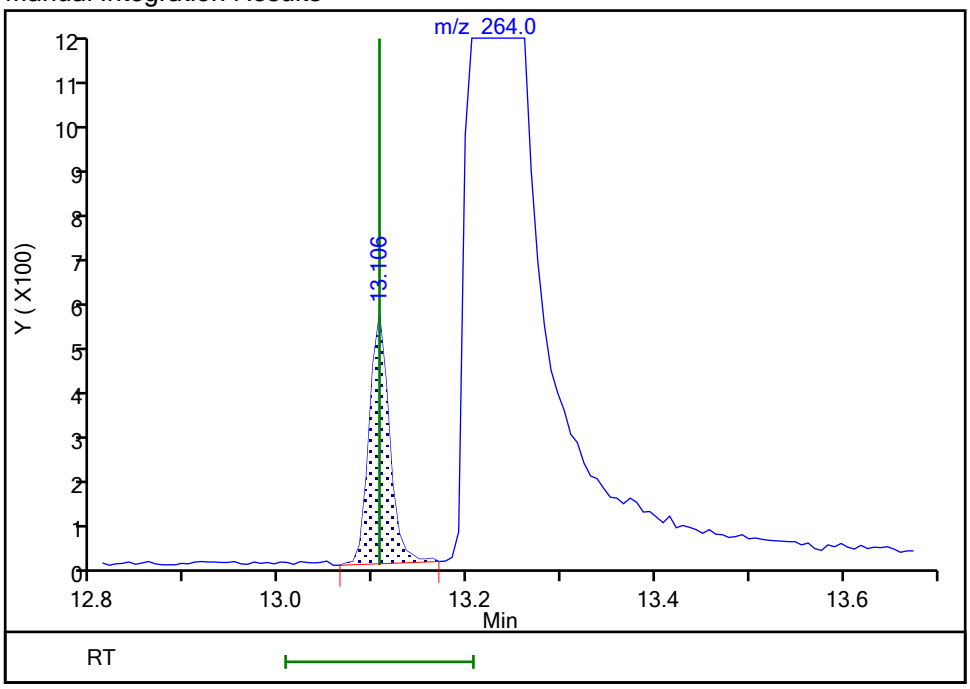
Processing Integration Results

RT: 13.23
Area: 99978
Amount: 0.011038
Amount Units: ug/ml



Manual Integration Results

RT: 13.11
Area: 802
Amount: 0.008644
Amount Units: ug/ml



Reviewer: SJ89, 09-Aug-2022 18:29:17

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

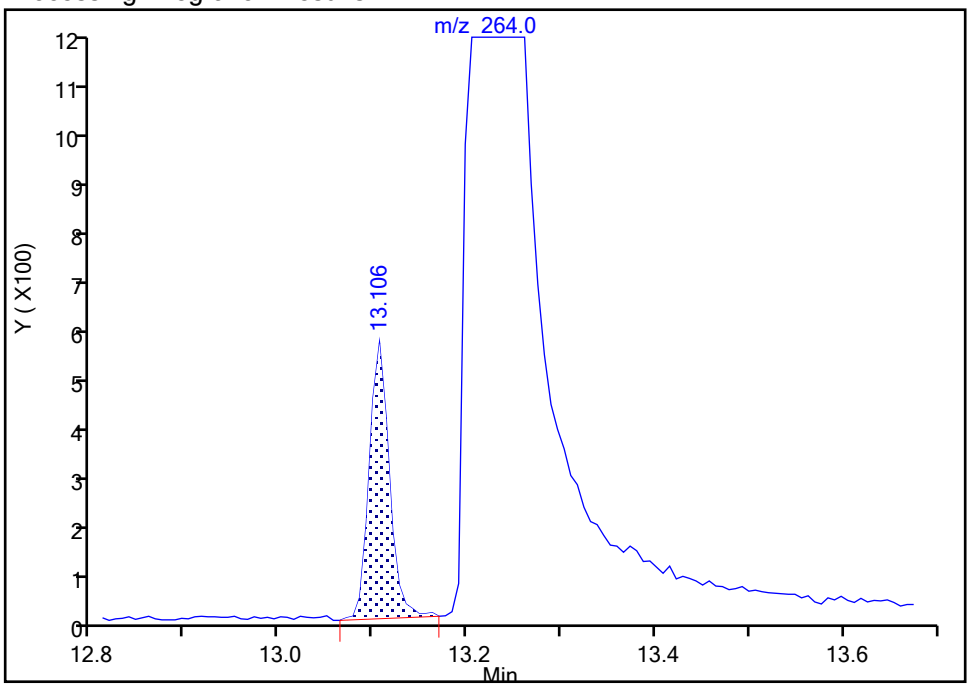
Data File:	\\chromfs\Lancaster\ChromData\HP10623\20220809-63751.b\CH0907.D				
Injection Date:	09-Aug-2022 17:46:30	Instrument ID:	HP10623		
Lims ID:	IC 1				
Client ID:					
Operator ID:	apb10206	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP10623	Limit Group:	MSSV - 8270D_E SIM		
Column:	Rxi-.5SilMS 30m 0.25mm (0.25 mm)	Detector	MS SCAN		

* 38 Perylene-d12, CAS: 1520-96-3

Signal: 1

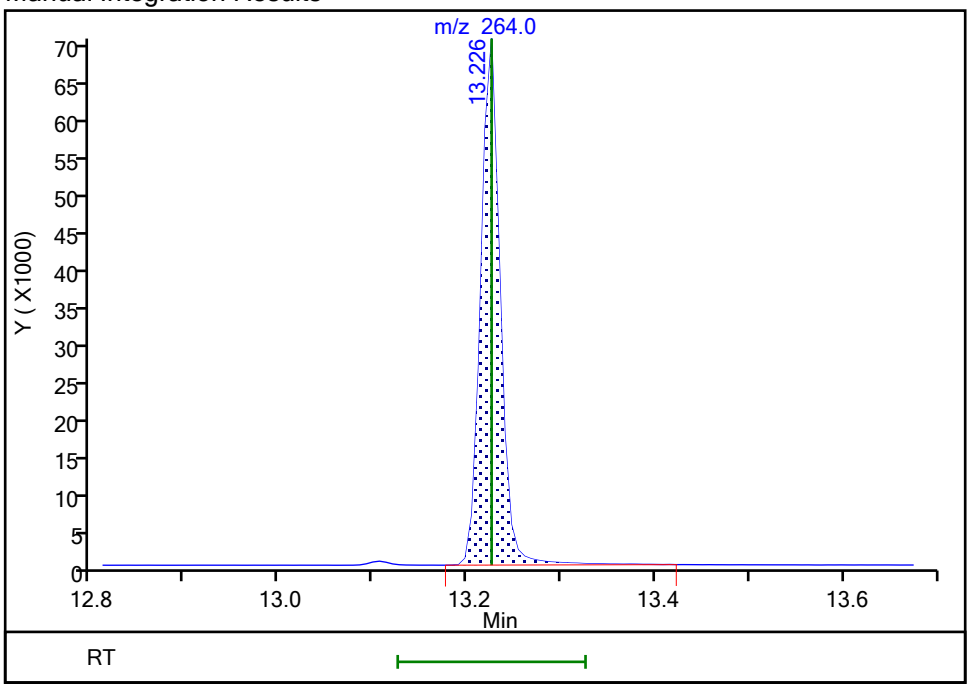
Processing Integration Results

RT: 13.11
Area: 802
Amount: 1.000000
Amount Units: ug/ml



Manual Integration Results

RT: 13.23
Area: 99978
Amount: 1.000000
Amount Units: ug/ml



Reviewer: SJ89, 09-Aug-2022 18:19:38
Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

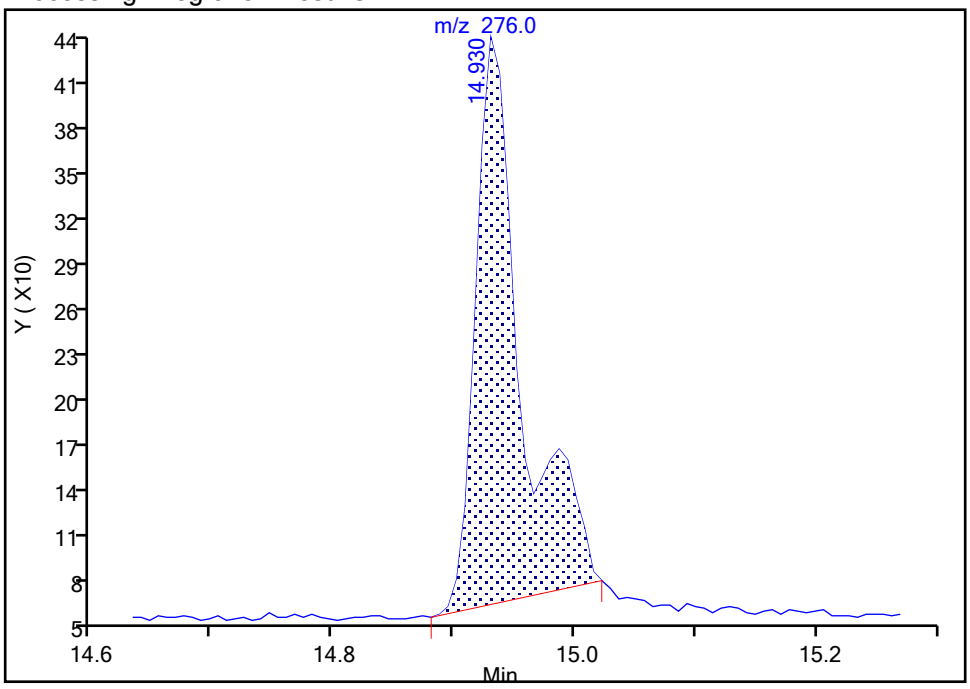
Data File:	\\chromfs\Lancaster\ChromData\HP10623\20220809-63751.b\CH0907.D				
Injection Date:	09-Aug-2022 17:46:30	Instrument ID:	HP10623		
Lims ID:	IC 1				
Client ID:					
Operator ID:	apb10206	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP10623	Limit Group:	MSSV - 8270D_E SIM		
Column:	Rxi-.5SilMS 30m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

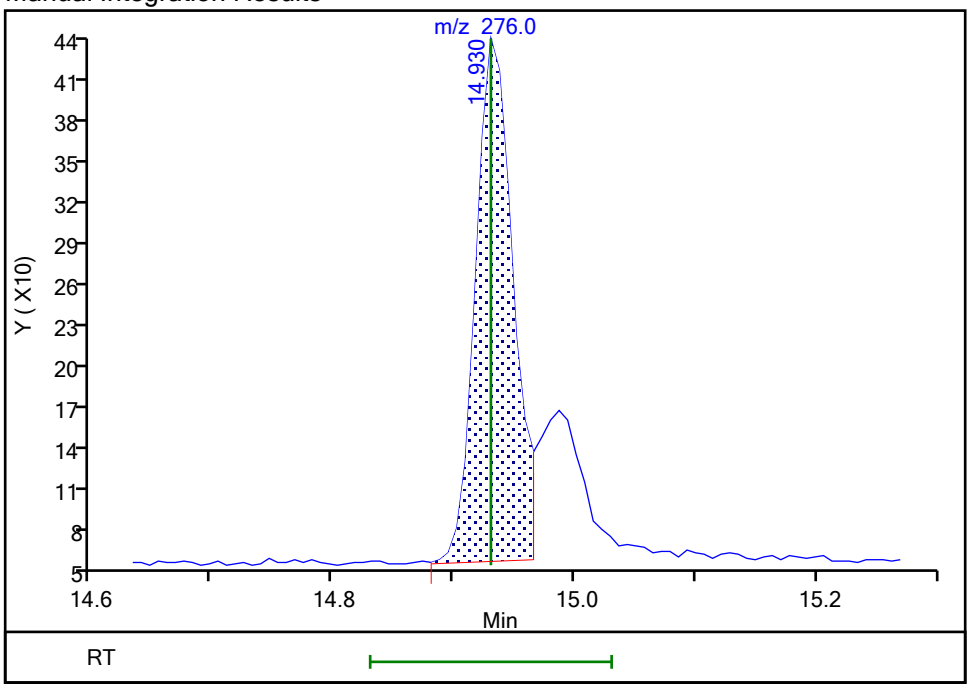
Processing Integration Results

RT: 14.93
Area: 972
Amount: 0.056283
Amount Units: ug/ml



Manual Integration Results

RT: 14.93
Area: 807
Amount: 0.008121
Amount Units: ug/ml



Reviewer: SJ89, 09-Aug-2022 18:18:49

Audit Action: Manually Integrated Audit Reason: Baseline

Calibration / 1,4-Dioxane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

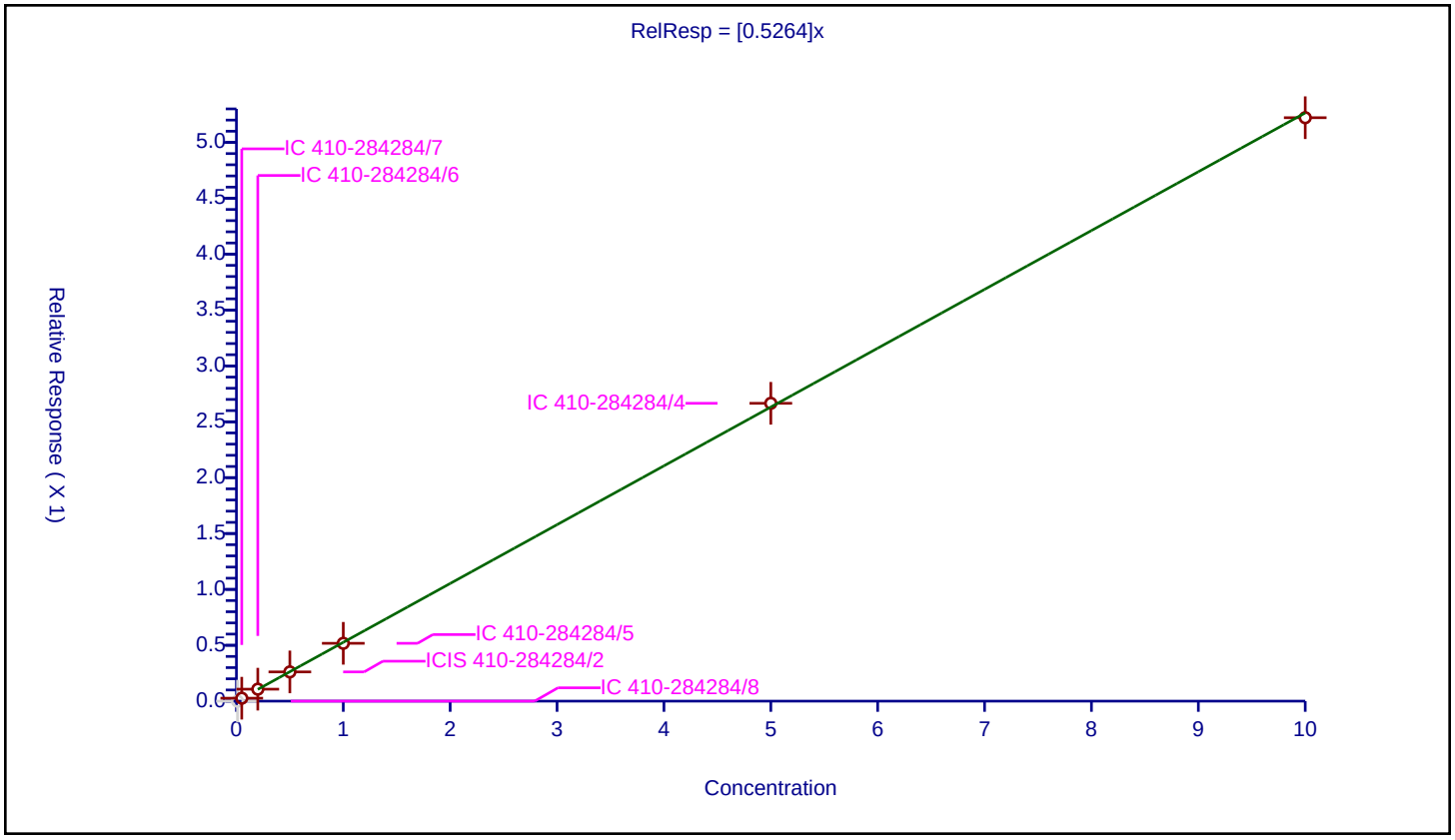
Curve Coefficients

Intercept:	0
Slope:	0.5264

Error Coefficients

Standard Error:	87200
Relative Standard Error:	1.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-284284/8	0.01	0.0	1.0	33362.0	0.0	N
2	IC 410-284284/7	0.05	0.026325	1.0	33694.0	0.526503	Y
3	IC 410-284284/6	0.2	0.107218	1.0	32625.0	0.536092	Y
4	ICIS 410-284284/2	0.5	0.26153	1.0	38160.0	0.523061	Y
5	IC 410-284284/5	1.0	0.517558	1.0	33262.0	0.517558	Y
6	IC 410-284284/4	5.0	2.665262	1.0	34164.0	0.533052	Y
7	IC 410-284284/3	10.0	5.221149	1.0	32815.0	0.522115	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

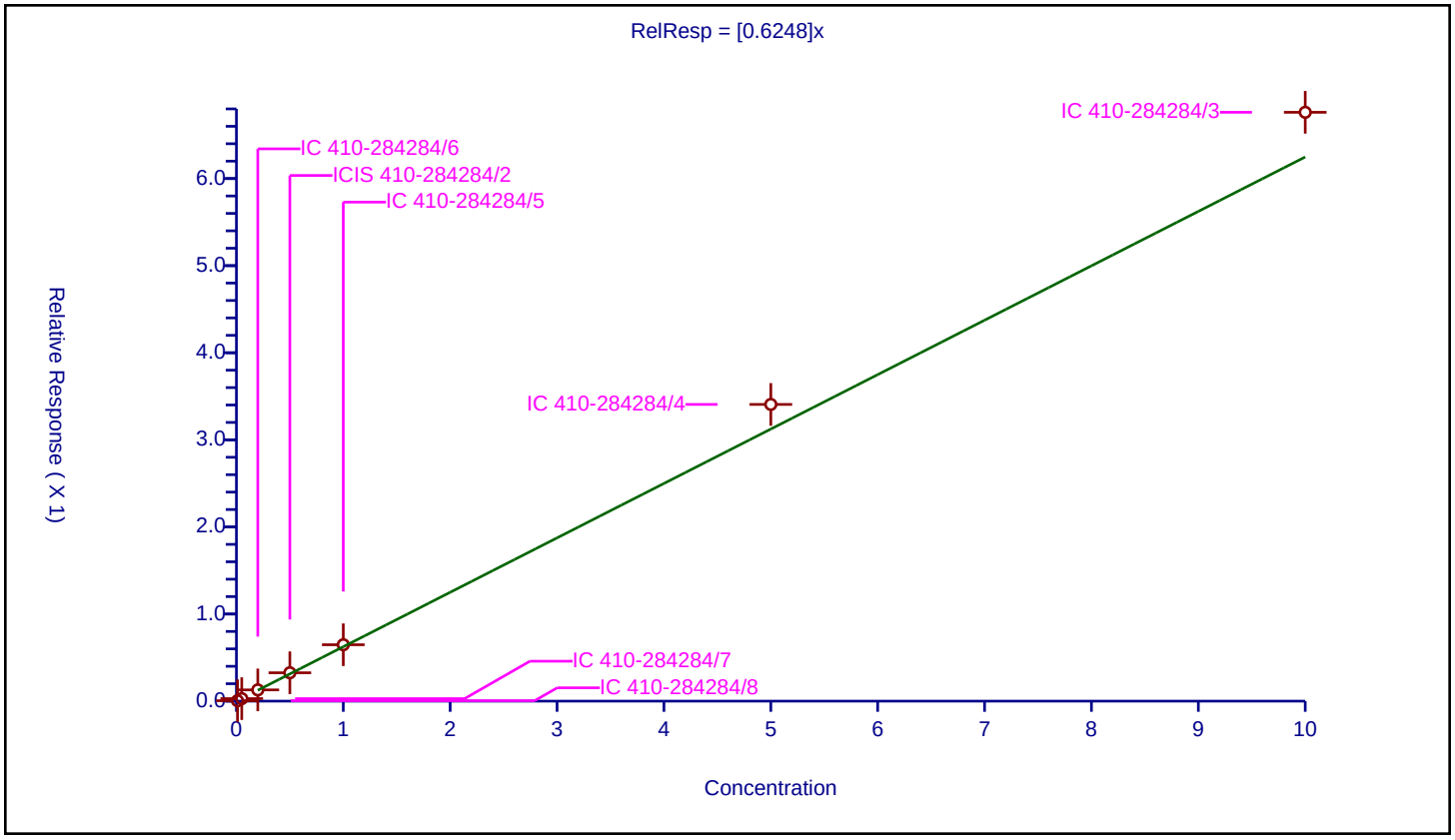
Curve Coefficients

Intercept:	0
Slope:	0.6248

Error Coefficients

Standard Error:	103000
Relative Standard Error:	10.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-284284/8	0.01	0.004916	1.0	33362.0	0.491577	Y
2	IC 410-284284/7	0.05	0.028937	1.0	33694.0	0.578738	Y
3	IC 410-284284/6	0.2	0.129287	1.0	32625.0	0.646437	Y
4	ICIS 410-284284/2	0.5	0.325917	1.0	38160.0	0.651834	Y
5	IC 410-284284/5	1.0	0.647466	1.0	33262.0	0.647466	Y
6	IC 410-284284/4	5.0	3.406861	1.0	34164.0	0.681372	Y
7	IC 410-284284/3	10.0	6.760841	1.0	32815.0	0.676084	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

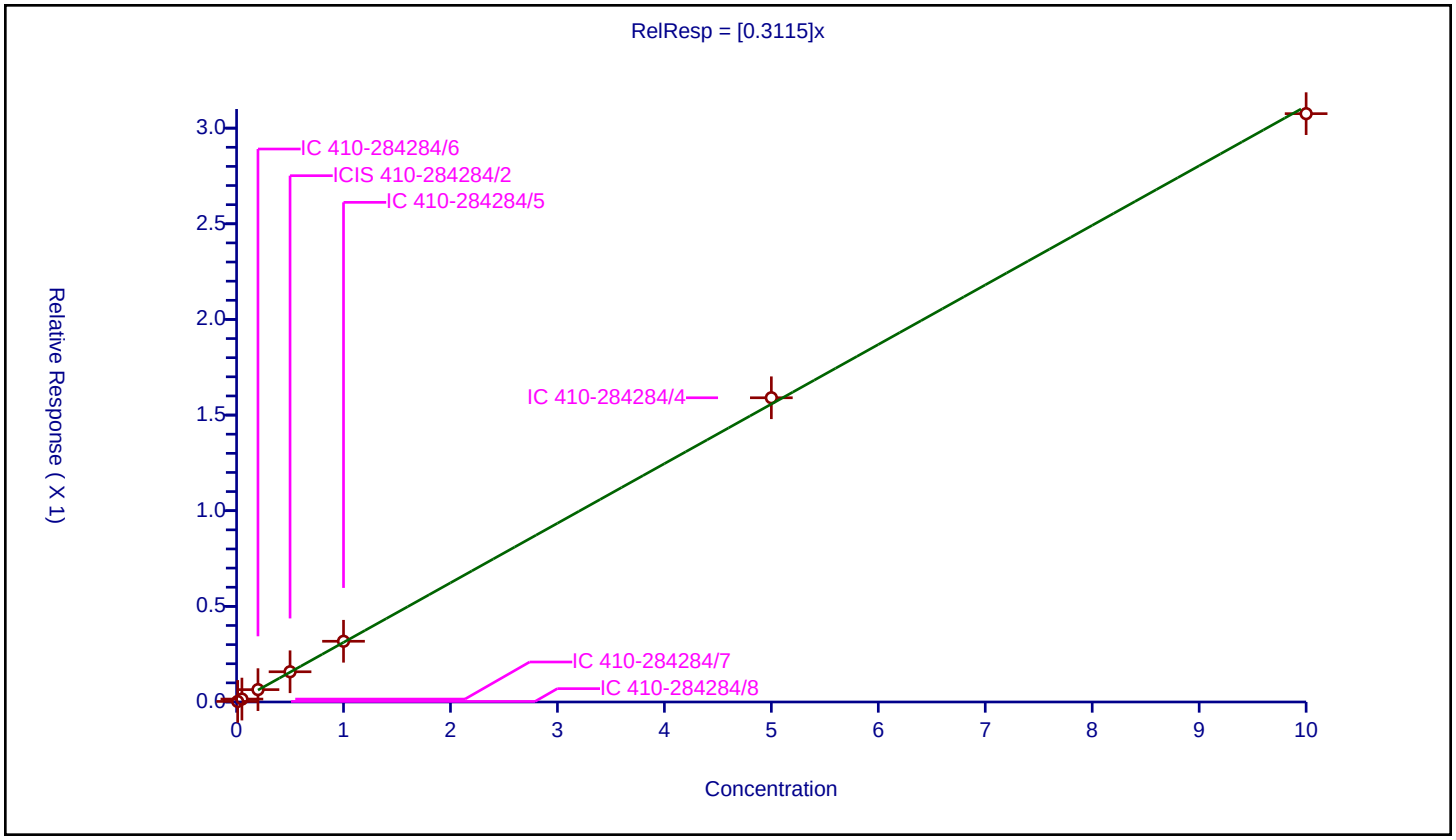
Curve Coefficients

Intercept:	0
Slope:	0.3115

Error Coefficients

Standard Error:	194000
Relative Standard Error:	3.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-284284/8	0.01	0.002918	1.0	129208.0	0.291778	Y
2	IC 410-284284/7	0.05	0.015319	1.0	131211.0	0.306377	Y
3	IC 410-284284/6	0.2	0.064602	1.0	127210.0	0.323009	Y
4	ICIS 410-284284/2	0.5	0.158051	1.0	149585.0	0.316101	Y
5	IC 410-284284/5	1.0	0.317481	1.0	130877.0	0.317481	Y
6	IC 410-284284/4	5.0	1.590427	1.0	139228.0	0.318085	Y
7	IC 410-284284/3	10.0	3.07569	1.0	135870.0	0.307569	Y



Calibration / Naphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

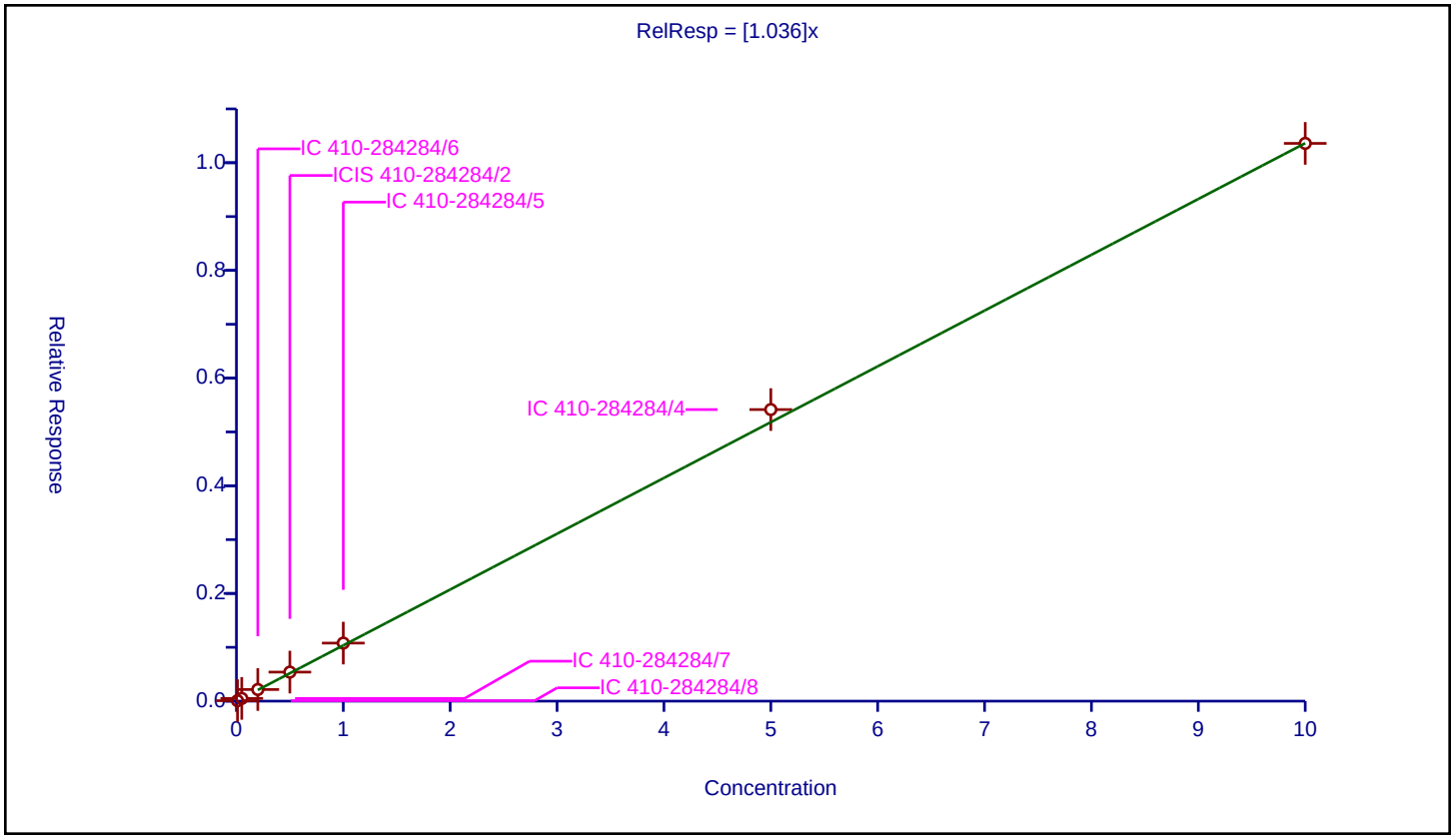
Curve Coefficients

Intercept:	0
Slope:	1.036

Error Coefficients

Standard Error:	655000
Relative Standard Error:	6.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-284284/8	0.01	0.008862	1.0	129208.0	0.886168	Y
2	IC 410-284284/7	0.05	0.05056	1.0	131211.0	1.011196	Y
3	IC 410-284284/6	0.2	0.216154	1.0	127210.0	1.080772	Y
4	ICIS 410-284284/2	0.5	0.539212	1.0	149585.0	1.078424	Y
5	IC 410-284284/5	1.0	1.078241	1.0	130877.0	1.078241	Y
6	IC 410-284284/4	5.0	5.415692	1.0	139228.0	1.083138	Y
7	IC 410-284284/3	10.0	10.359182	1.0	135870.0	1.035918	Y



Calibration / Quinoline

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

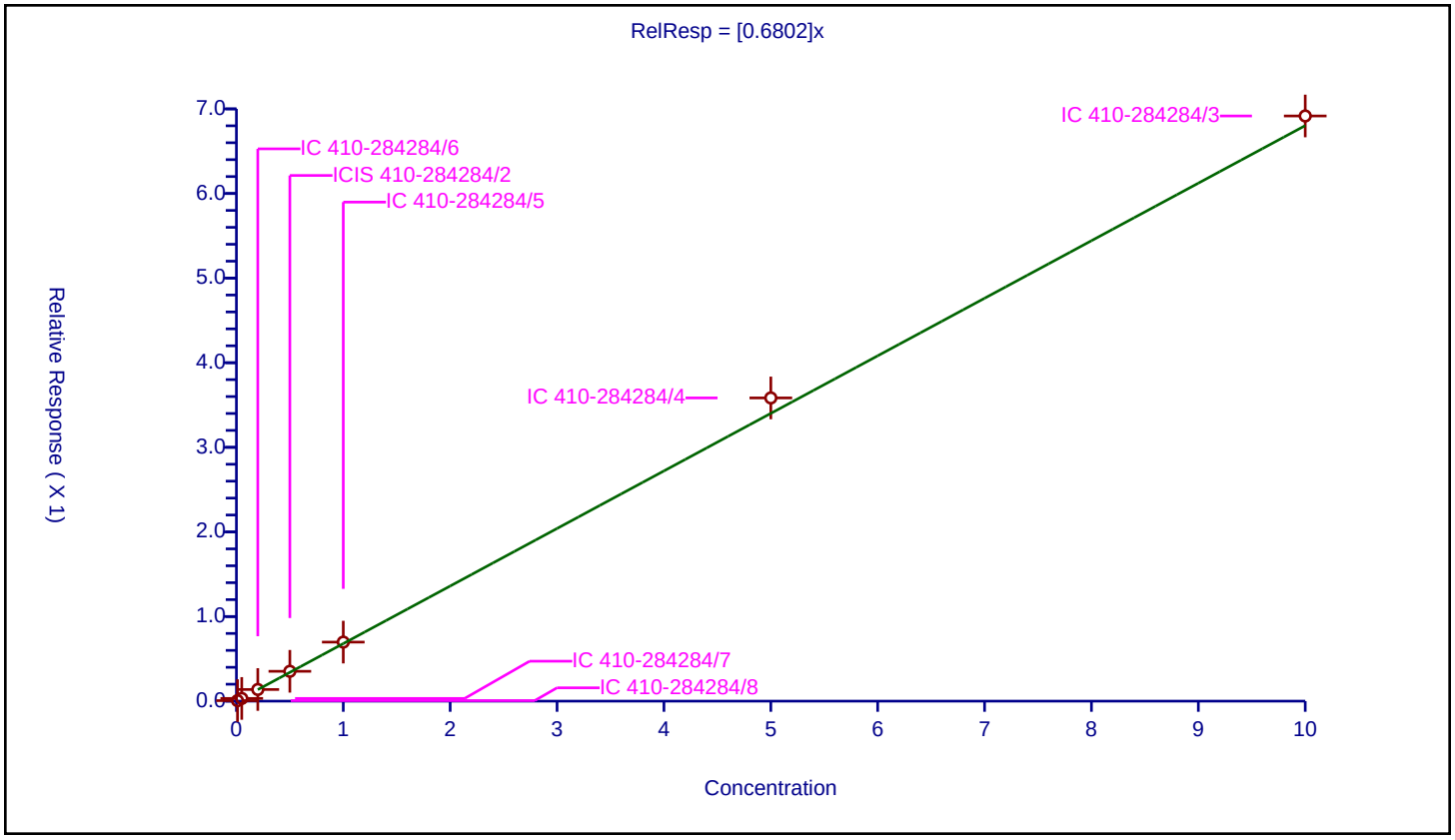
Curve Coefficients

Intercept:	0
Slope:	0.6802

Error Coefficients

Standard Error:	437000
Relative Standard Error:	5.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-284284/8	0.01	0.006199	1.0	129208.0	0.619931	Y
2	IC 410-284284/7	0.05	0.032078	1.0	131211.0	0.641562	Y
3	IC 410-284284/6	0.2	0.13767	1.0	127210.0	0.68835	Y
4	ICIS 410-284284/2	0.5	0.352789	1.0	149585.0	0.705579	Y
5	IC 410-284284/5	1.0	0.697884	1.0	130877.0	0.697884	Y
6	IC 410-284284/4	5.0	3.583755	1.0	139228.0	0.716751	Y
7	IC 410-284284/3	10.0	6.91631	1.0	135870.0	0.691631	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

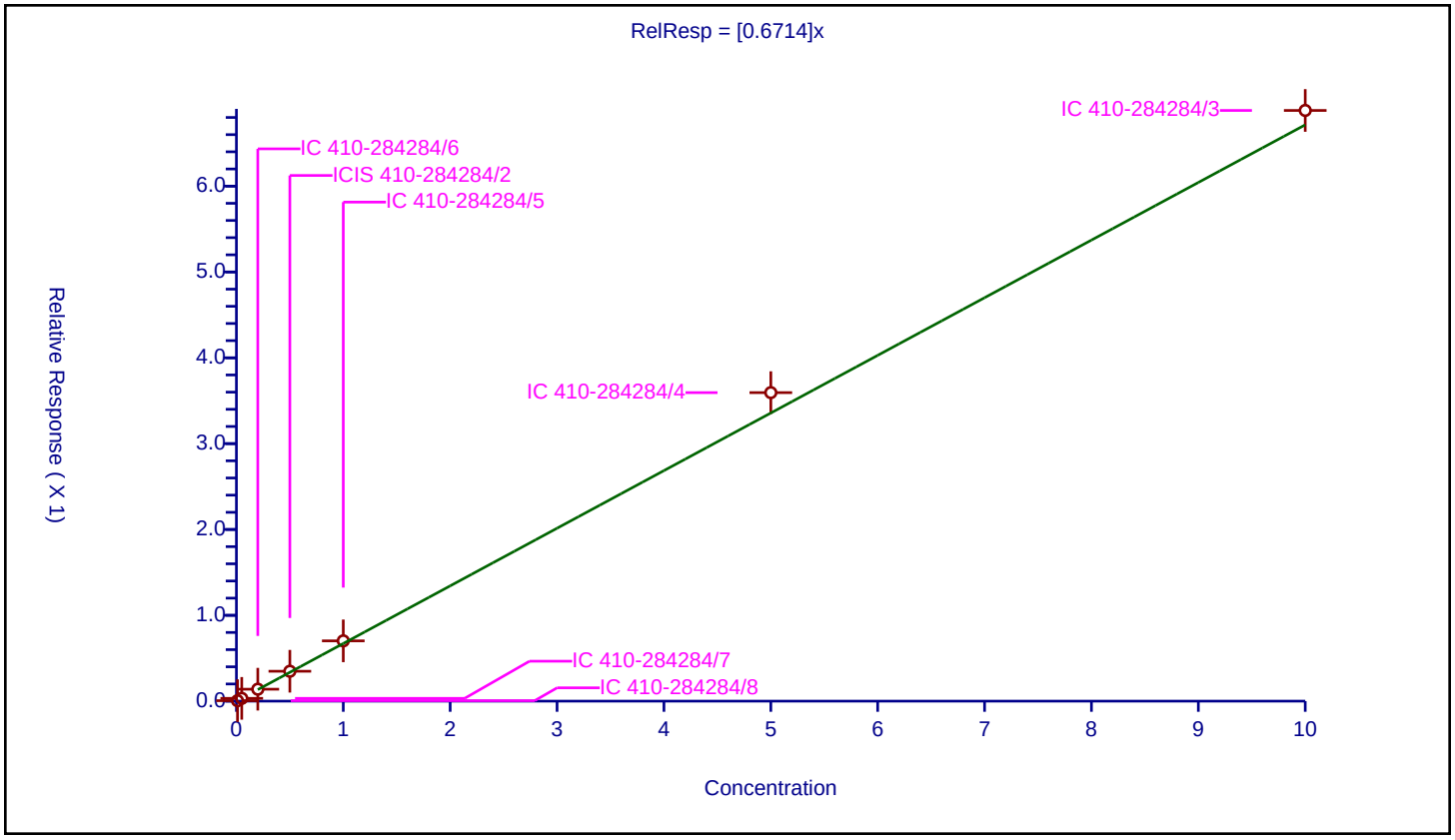
Curve Coefficients

Intercept:	0
Slope:	0.6714

Error Coefficients

Standard Error:	435000
Relative Standard Error:	8.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-284284/8	0.01	0.005518	1.0	129208.0	0.551823	Y
2	IC 410-284284/7	0.05	0.032299	1.0	131211.0	0.645982	Y
3	IC 410-284284/6	0.2	0.139171	1.0	127210.0	0.695857	Y
4	ICIS 410-284284/2	0.5	0.34837	1.0	149585.0	0.696741	Y
5	IC 410-284284/5	1.0	0.702453	1.0	130877.0	0.702453	Y
6	IC 410-284284/4	5.0	3.594464	1.0	139228.0	0.718893	Y
7	IC 410-284284/3	10.0	6.881762	1.0	135870.0	0.688176	Y



Calibration / 1-Methylnaphthalene-d10

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

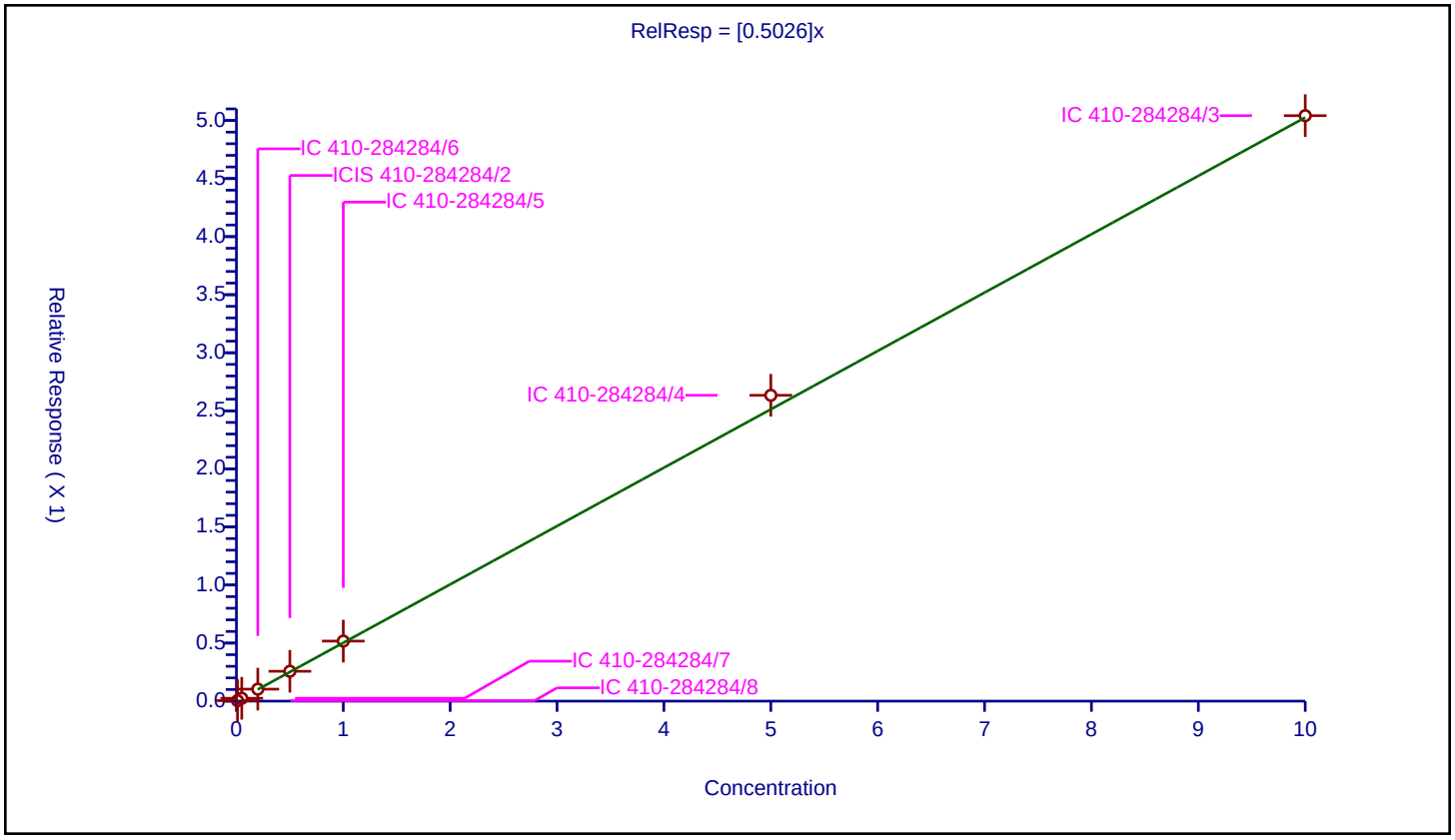
Curve Coefficients

Intercept:	0
Slope:	0.5026

Error Coefficients

Standard Error:	319000
Relative Standard Error:	5.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-284284/8	0.01	0.004473	1.0	129208.0	0.447341	Y
2	IC 410-284284/7	0.05	0.024609	1.0	131211.0	0.492184	Y
3	IC 410-284284/6	0.2	0.103286	1.0	127210.0	0.51643	Y
4	ICIS 410-284284/2	0.5	0.257125	1.0	149585.0	0.514249	Y
5	IC 410-284284/5	1.0	0.516982	1.0	130877.0	0.516982	Y
6	IC 410-284284/4	5.0	2.633702	1.0	139228.0	0.52674	Y
7	IC 410-284284/3	10.0	5.041783	1.0	135870.0	0.504178	Y



Calibration / 1-Methylnaphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

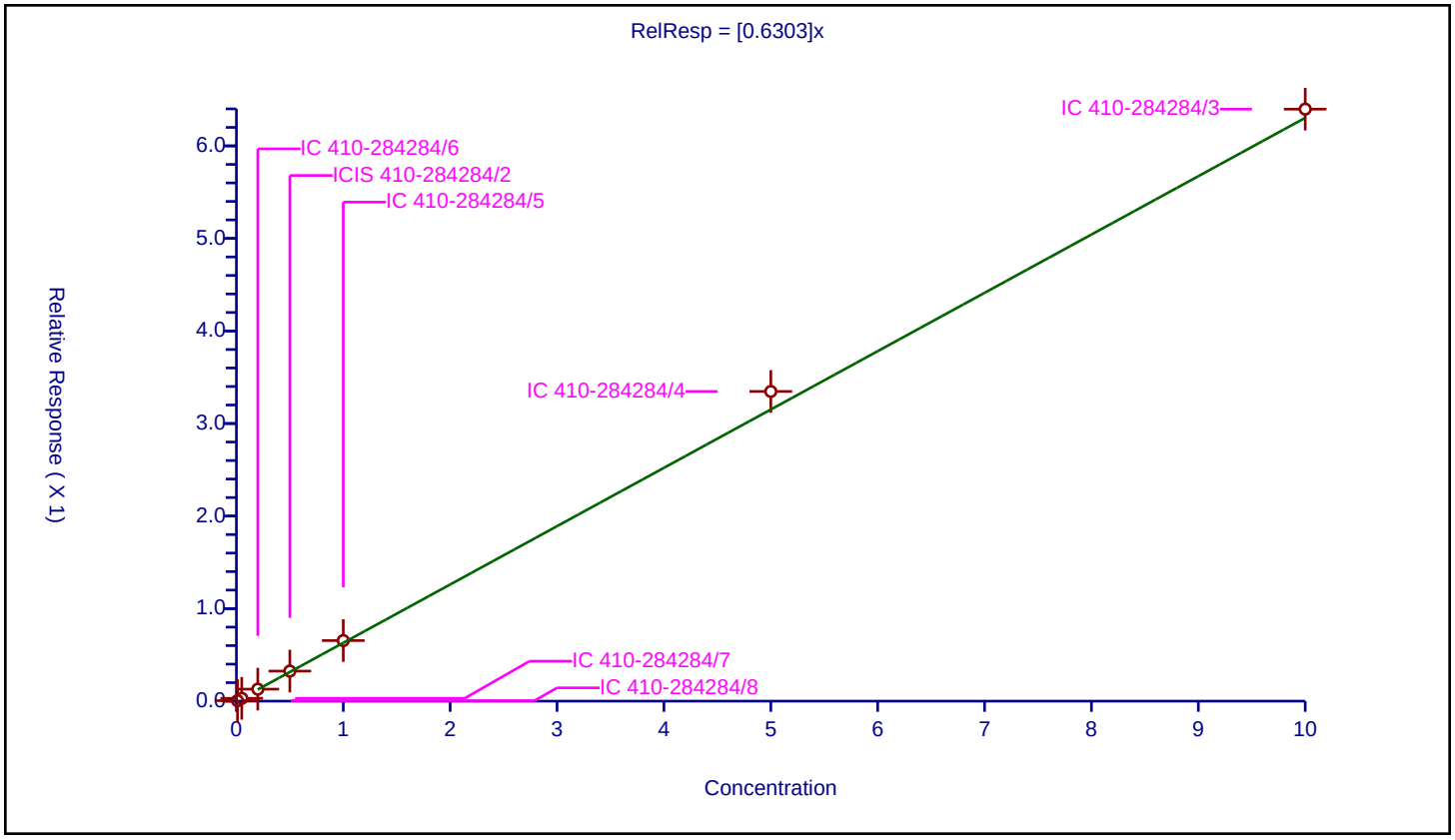
Curve Coefficients

Intercept:	0
Slope:	0.6303

Error Coefficients

Standard Error:	405000
Relative Standard Error:	6.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-284284/8	0.01	0.005449	1.0	129208.0	0.544858	Y
2	IC 410-284284/7	0.05	0.030295	1.0	131211.0	0.605894	Y
3	IC 410-284284/6	0.2	0.129557	1.0	127210.0	0.647787	Y
4	ICIS 410-284284/2	0.5	0.324886	1.0	149585.0	0.649771	Y
5	IC 410-284284/5	1.0	0.654706	1.0	130877.0	0.654706	Y
6	IC 410-284284/4	5.0	3.346475	1.0	139228.0	0.669295	Y
7	IC 410-284284/3	10.0	6.397262	1.0	135870.0	0.639726	Y



Calibration / Dimethyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

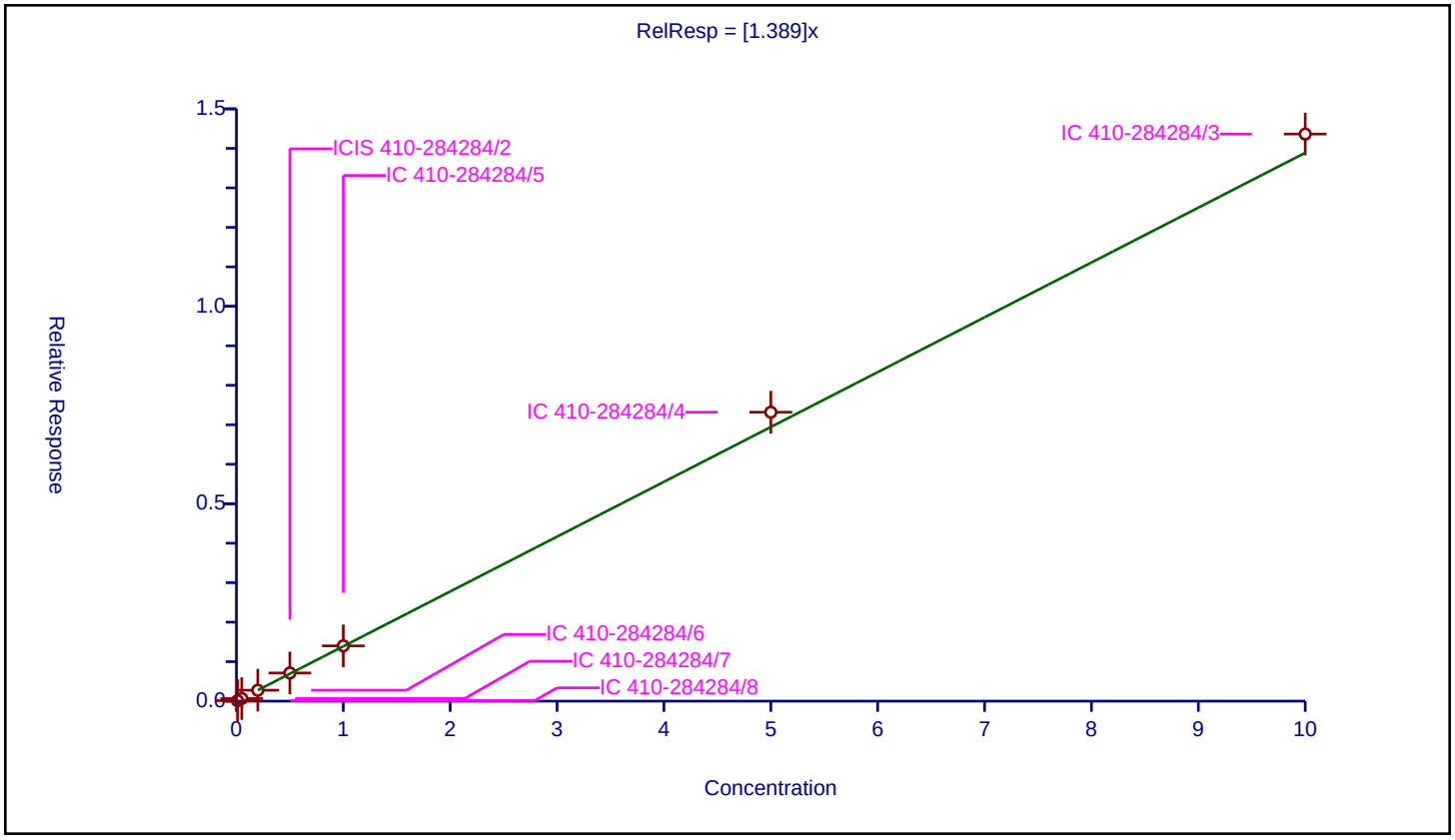
Curve Coefficients

Intercept:	0
Slope:	1.389

Error Coefficients

Standard Error:	475000
Relative Standard Error:	4.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-284284/8	0.01	0.012973	1.0	67064.0	1.297268	Y
2	IC 410-284284/7	0.05	0.065708	1.0	68317.0	1.314168	Y
3	IC 410-284284/6	0.2	0.276646	1.0	67516.0	1.383228	Y
4	ICIS 410-284284/2	0.5	0.713171	1.0	79978.0	1.426342	Y
5	IC 410-284284/5	1.0	1.400032	1.0	69607.0	1.400032	Y
6	IC 410-284284/4	5.0	7.318001	1.0	75025.0	1.4636	Y
7	IC 410-284284/3	10.0	14.362661	1.0	70901.0	1.436266	Y



Calibration / Acenaphthylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

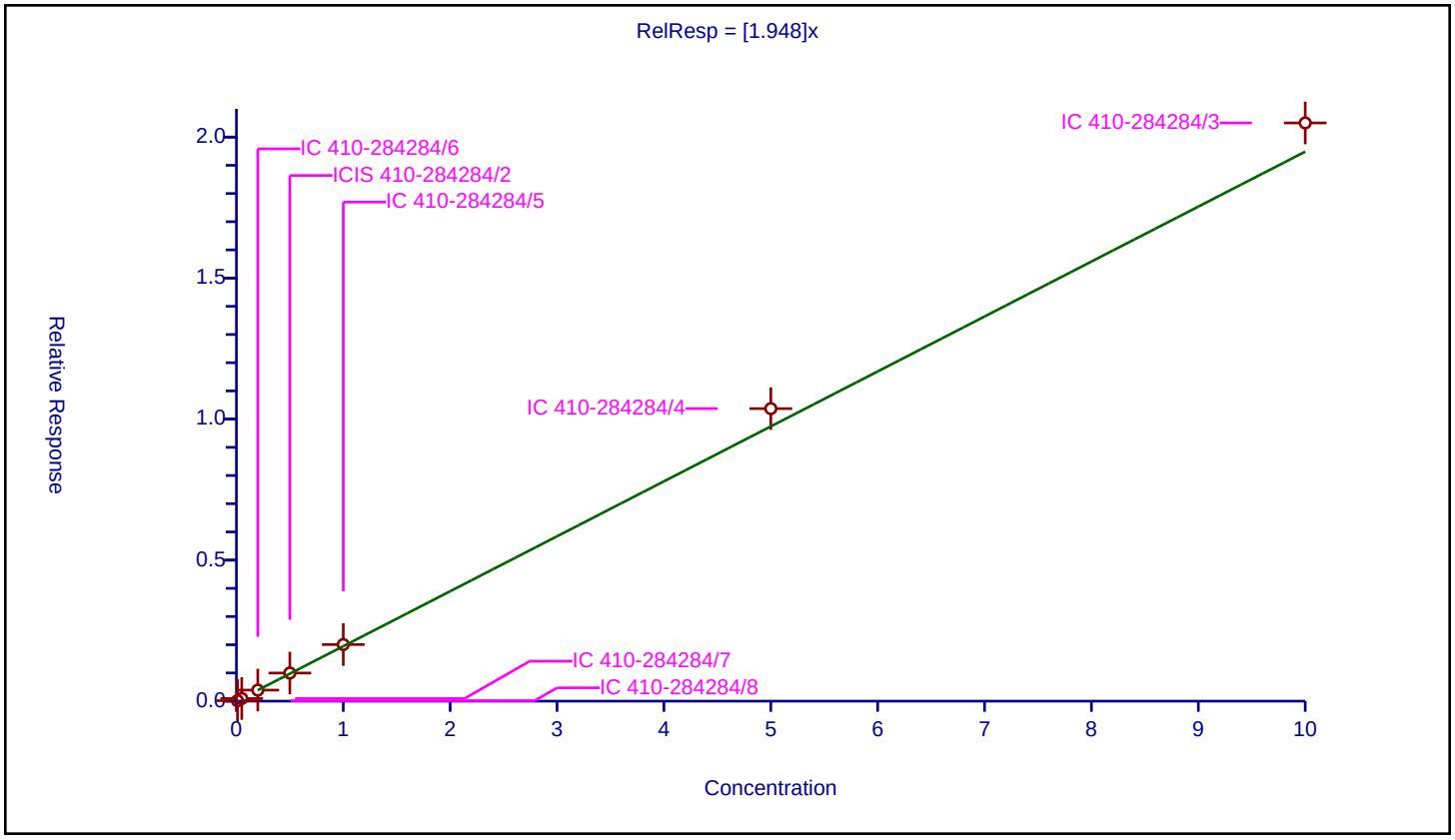
Curve Coefficients

Intercept:	0
Slope:	1.948

Error Coefficients

Standard Error:	676000
Relative Standard Error:	6.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-284284/8	0.01	0.016894	1.0	67064.0	1.689431	Y
2	IC 410-284284/7	0.05	0.093242	1.0	68317.0	1.864836	Y
3	IC 410-284284/6	0.2	0.391848	1.0	67516.0	1.959239	Y
4	ICIS 410-284284/2	0.5	0.996649	1.0	79978.0	1.993298	Y
5	IC 410-284284/5	1.0	2.00681	1.0	69607.0	2.00681	Y
6	IC 410-284284/4	5.0	10.372942	1.0	75025.0	2.074588	Y
7	IC 410-284284/3	10.0	20.501544	1.0	70901.0	2.050154	Y



Calibration / Acenaphthene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

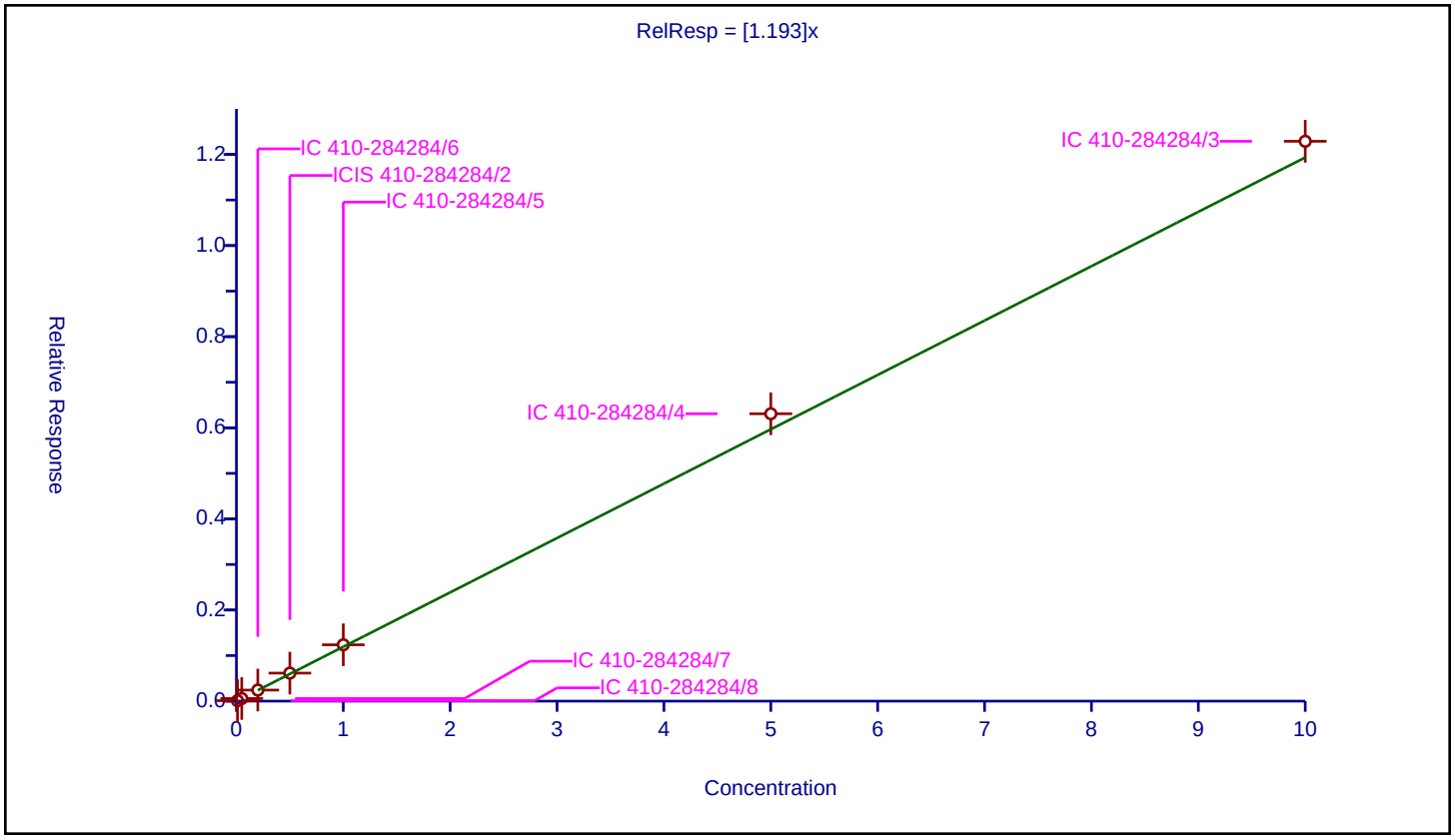
Curve Coefficients

Intercept:	0
Slope:	1.193

Error Coefficients

Standard Error:	407000
Relative Standard Error:	6.6
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-284284/8	0.01	0.010348	1.0	67064.0	1.034832	Y
2	IC 410-284284/7	0.05	0.057306	1.0	68317.0	1.146128	Y
3	IC 410-284284/6	0.2	0.24295	1.0	67516.0	1.214749	Y
4	ICIS 410-284284/2	0.5	0.615219	1.0	79978.0	1.230438	Y
5	IC 410-284284/5	1.0	1.236887	1.0	69607.0	1.236887	Y
6	IC 410-284284/4	5.0	6.308324	1.0	75025.0	1.261665	Y
7	IC 410-284284/3	10.0	12.289206	1.0	70901.0	1.228921	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

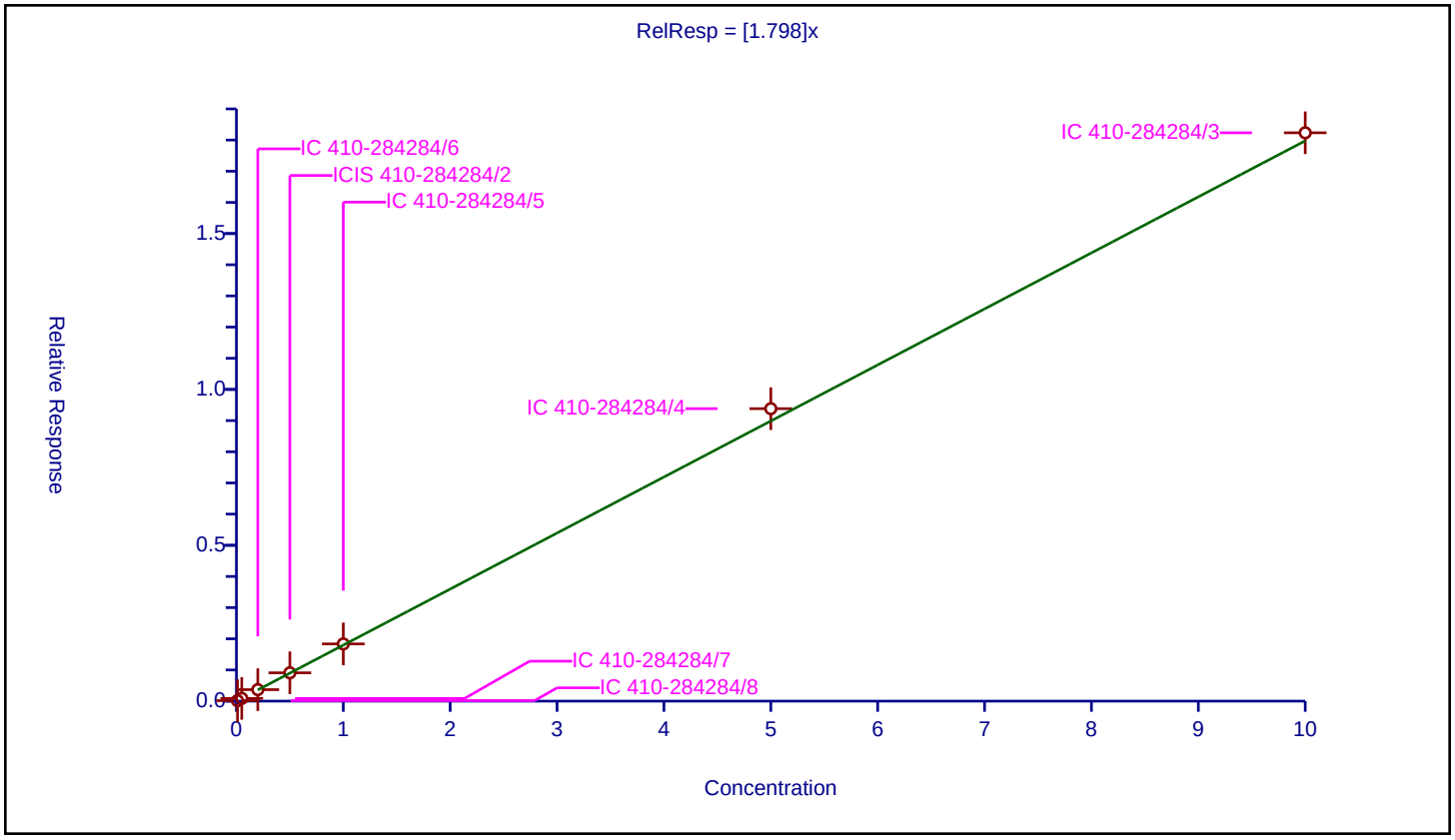
Curve Coefficients

Intercept:	0
Slope:	1.798

Error Coefficients

Standard Error:	604000
Relative Standard Error:	4.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-284284/8	0.01	0.016432	1.0	67064.0	1.643206	Y
2	IC 410-284284/7	0.05	0.087226	1.0	68317.0	1.744515	Y
3	IC 410-284284/6	0.2	0.368476	1.0	67516.0	1.842378	Y
4	ICIS 410-284284/2	0.5	0.908612	1.0	79978.0	1.817225	Y
5	IC 410-284284/5	1.0	1.835692	1.0	69607.0	1.835692	Y
6	IC 410-284284/4	5.0	9.382832	1.0	75025.0	1.876566	Y
7	IC 410-284284/3	10.0	18.233213	1.0	70901.0	1.823321	Y



Calibration / Diethyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

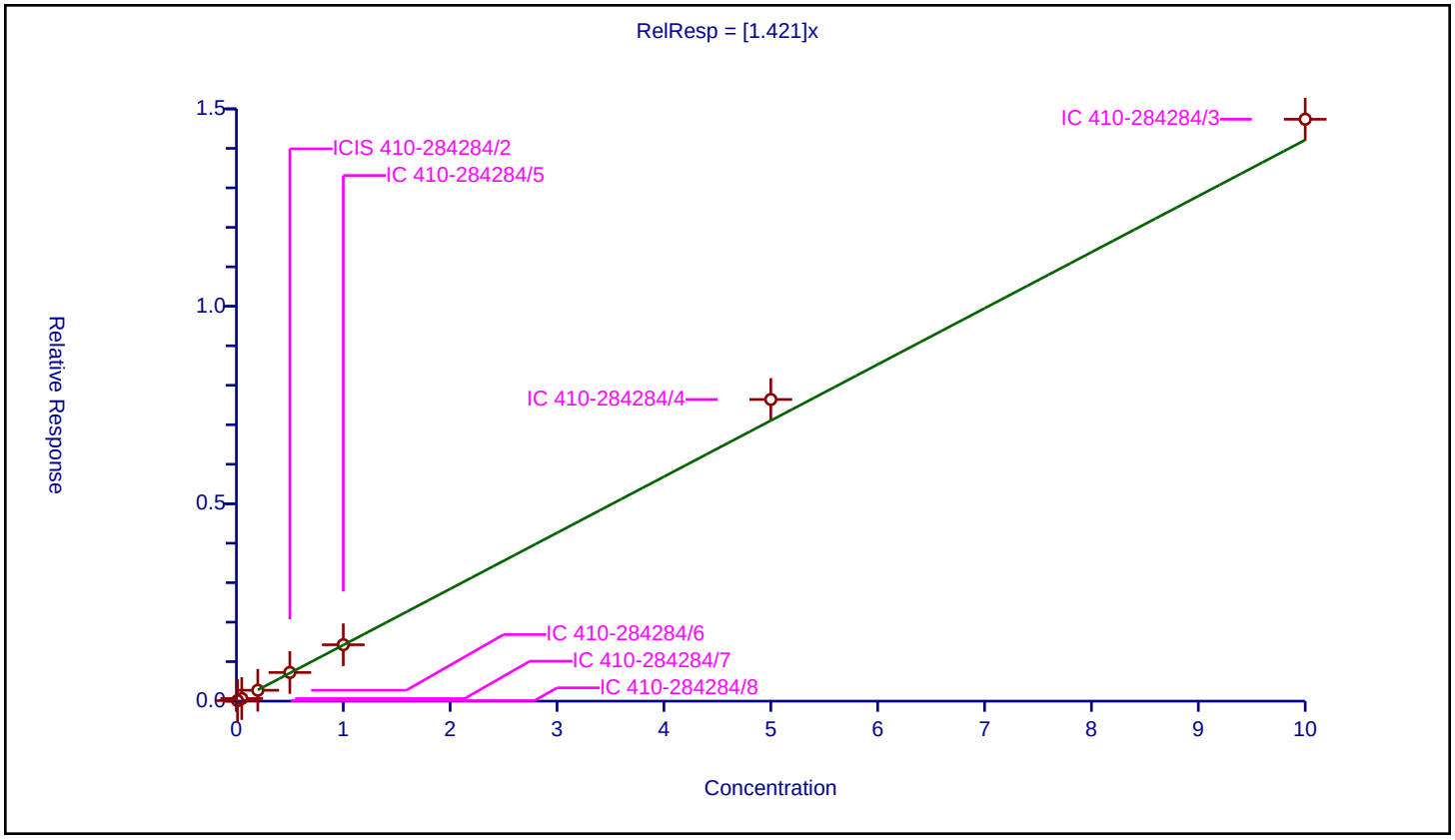
Curve Coefficients

Intercept:	0
Slope:	1.421

Error Coefficients

Standard Error:	489000
Relative Standard Error:	5.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-284284/8	0.01	0.013703	1.0	67064.0	1.370333	Y
2	IC 410-284284/7	0.05	0.065884	1.0	68317.0	1.317681	Y
3	IC 410-284284/6	0.2	0.275535	1.0	67516.0	1.377673	Y
4	ICIS 410-284284/2	0.5	0.726362	1.0	79978.0	1.452724	Y
5	IC 410-284284/5	1.0	1.428477	1.0	69607.0	1.428477	Y
6	IC 410-284284/4	5.0	7.640453	1.0	75025.0	1.528091	Y
7	IC 410-284284/3	10.0	14.737634	1.0	70901.0	1.473763	Y



Calibration / Fluorene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

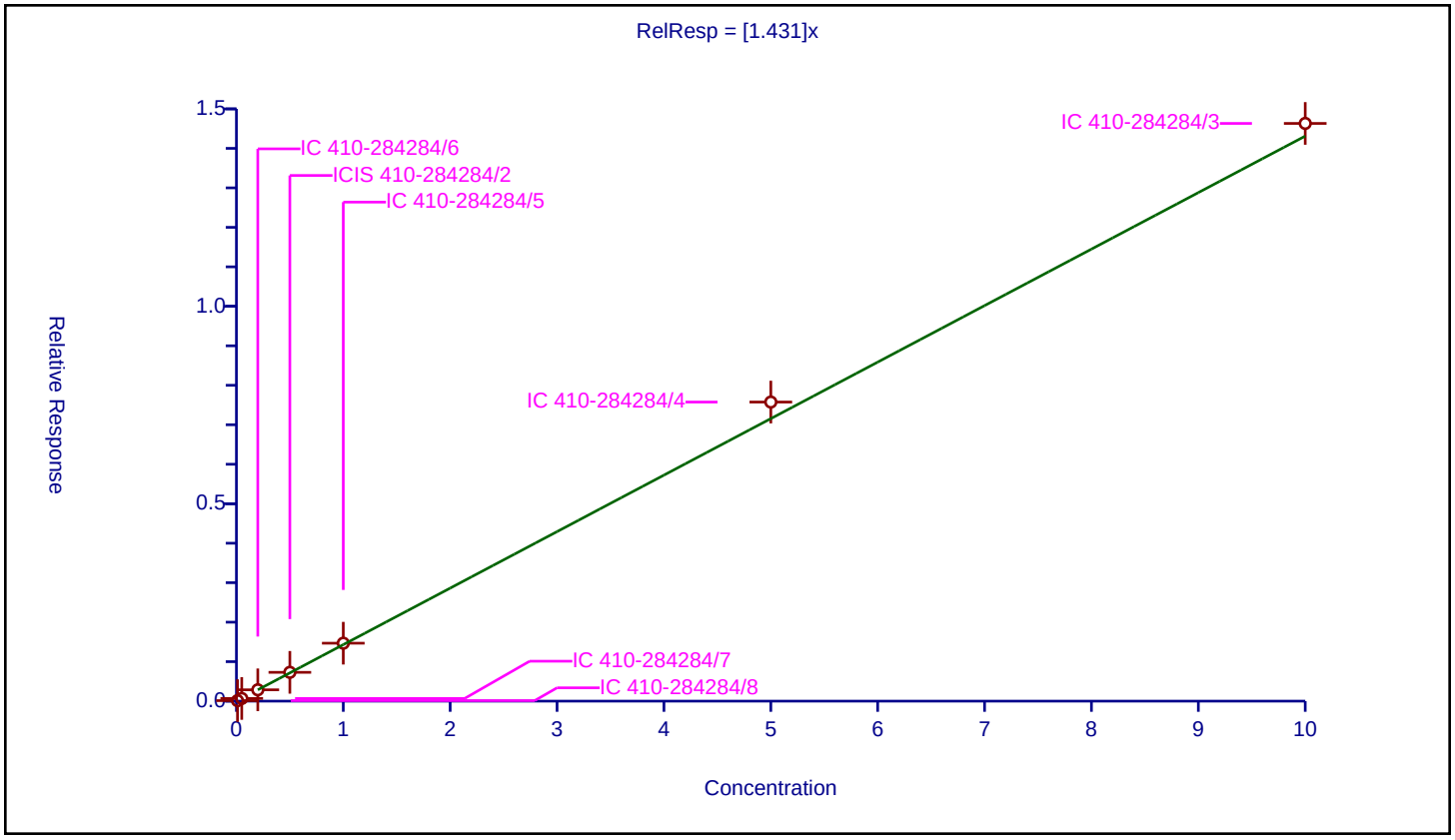
Curve Coefficients

Intercept:	0
Slope:	1.431

Error Coefficients

Standard Error:	485000
Relative Standard Error:	4.8
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-284284/8	0.01	0.013181	1.0	67064.0	1.318144	Y
2	IC 410-284284/7	0.05	0.067889	1.0	68317.0	1.357788	Y
3	IC 410-284284/6	0.2	0.287339	1.0	67516.0	1.436696	Y
4	ICIS 410-284284/2	0.5	0.729576	1.0	79978.0	1.459151	Y
5	IC 410-284284/5	1.0	1.467525	1.0	69607.0	1.467525	Y
6	IC 410-284284/4	5.0	7.575142	1.0	75025.0	1.515028	Y
7	IC 410-284284/3	10.0	14.632022	1.0	70901.0	1.463202	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

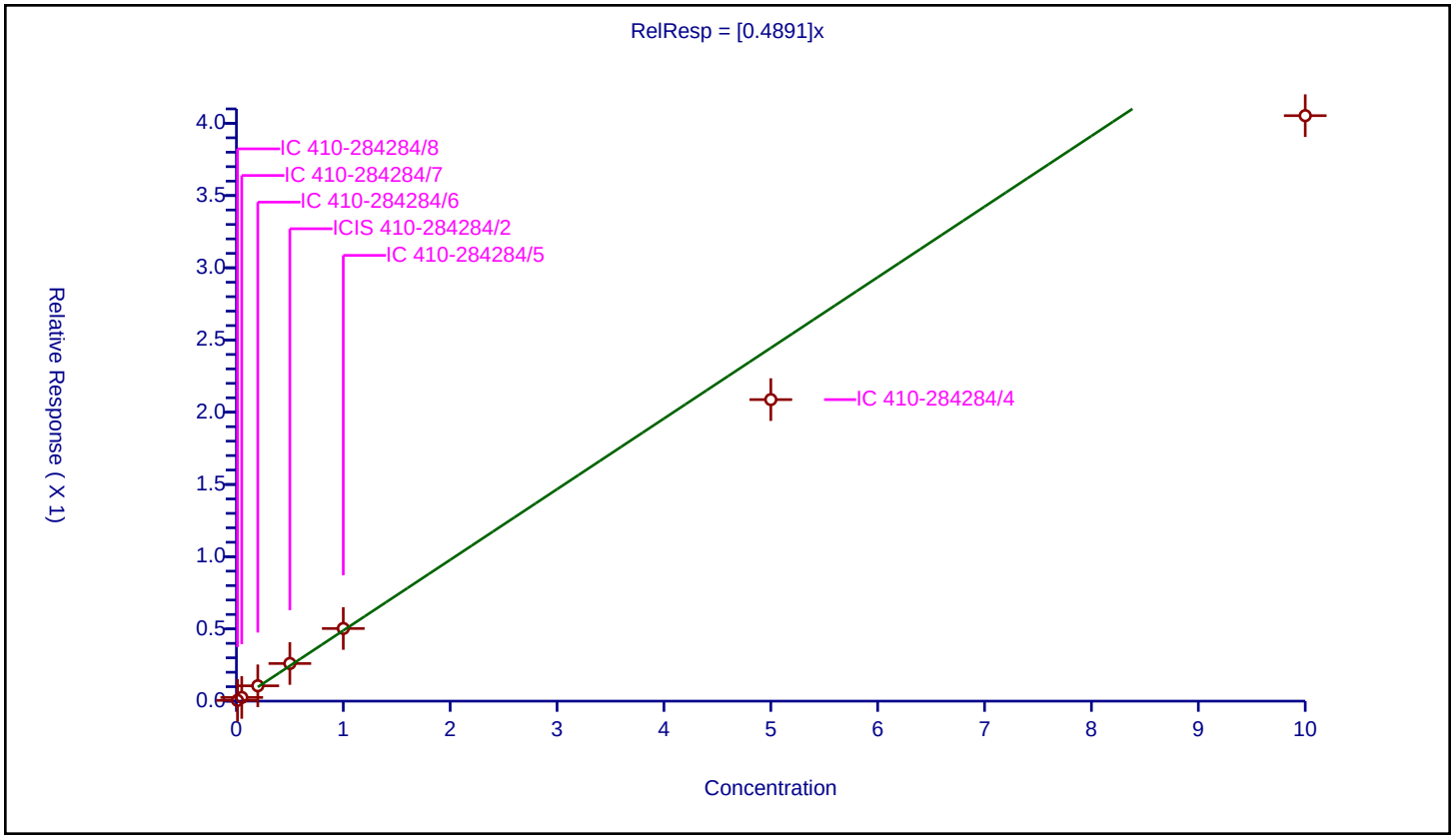
Curve Coefficients

Intercept:	0
Slope:	0.4891

Error Coefficients

Standard Error:	256000
Relative Standard Error:	11.1
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-284284/8	0.01	0.005344	1.0	131166.0	0.534437	Y
2	IC 410-284284/7	0.05	0.02556	1.0	132040.0	0.511209	Y
3	IC 410-284284/6	0.2	0.106171	1.0	130779.0	0.530857	Y
4	ICIS 410-284284/2	0.5	0.260609	1.0	153882.0	0.521218	Y
5	IC 410-284284/5	1.0	0.502922	1.0	134166.0	0.502922	Y
6	IC 410-284284/4	5.0	2.087406	1.0	145974.0	0.417481	Y
7	IC 410-284284/3	10.0	4.053175	1.0	133539.0	0.405318	Y



Calibration / Hexachlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

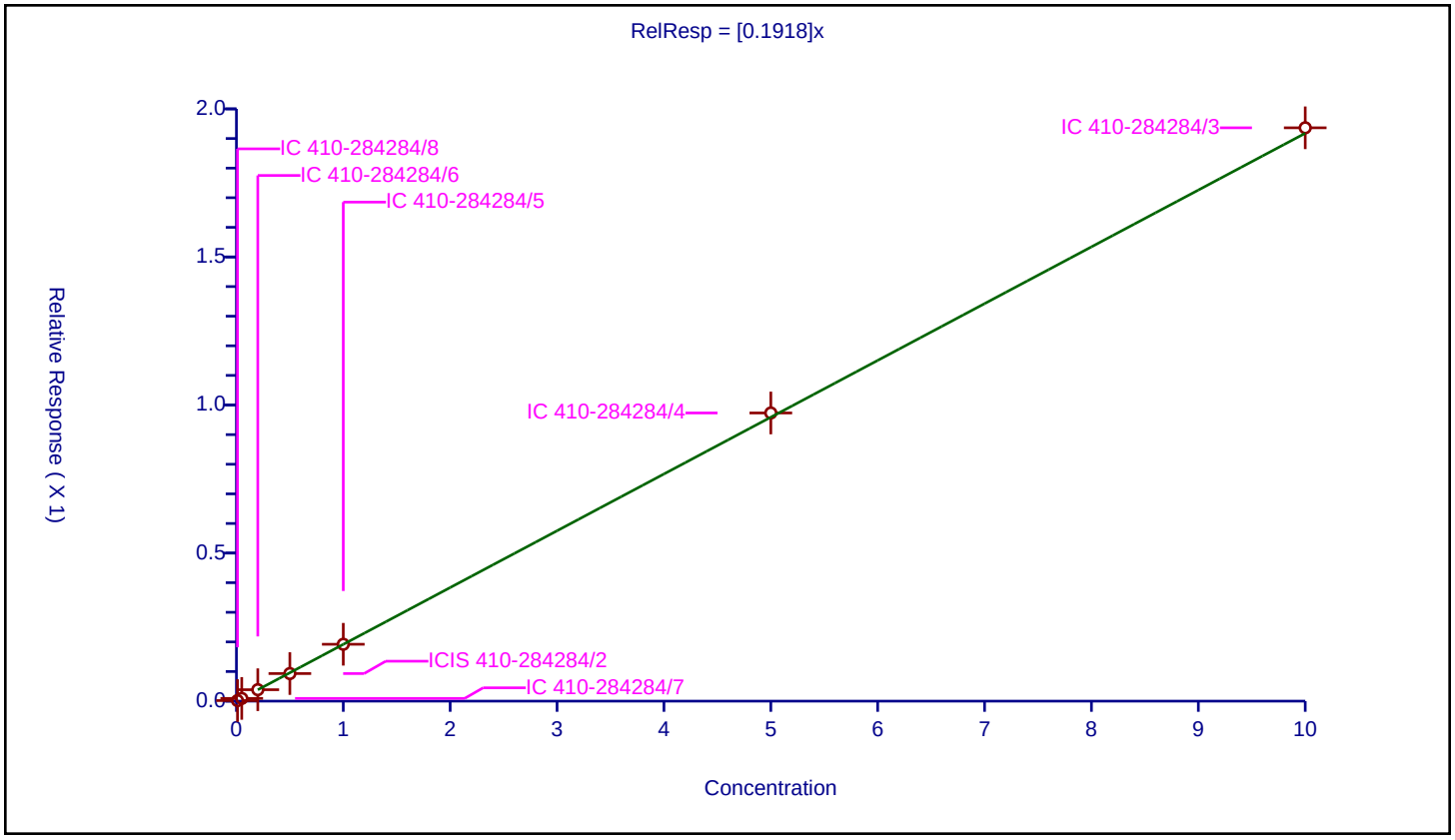
Curve Coefficients

Intercept:	0
Slope:	0.1918

Error Coefficients

Standard Error:	121000
Relative Standard Error:	2.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-284284/8	0.01	0.001975	1.0	131166.0	0.19746	Y
2	IC 410-284284/7	0.05	0.009247	1.0	132040.0	0.184944	Y
3	IC 410-284284/6	0.2	0.038653	1.0	130779.0	0.193265	Y
4	ICIS 410-284284/2	0.5	0.093175	1.0	153882.0	0.186351	Y
5	IC 410-284284/5	1.0	0.19209	1.0	134166.0	0.19209	Y
6	IC 410-284284/4	5.0	0.973153	1.0	145974.0	0.194631	Y
7	IC 410-284284/3	10.0	1.936176	1.0	133539.0	0.193618	Y



Calibration / Phenanthrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

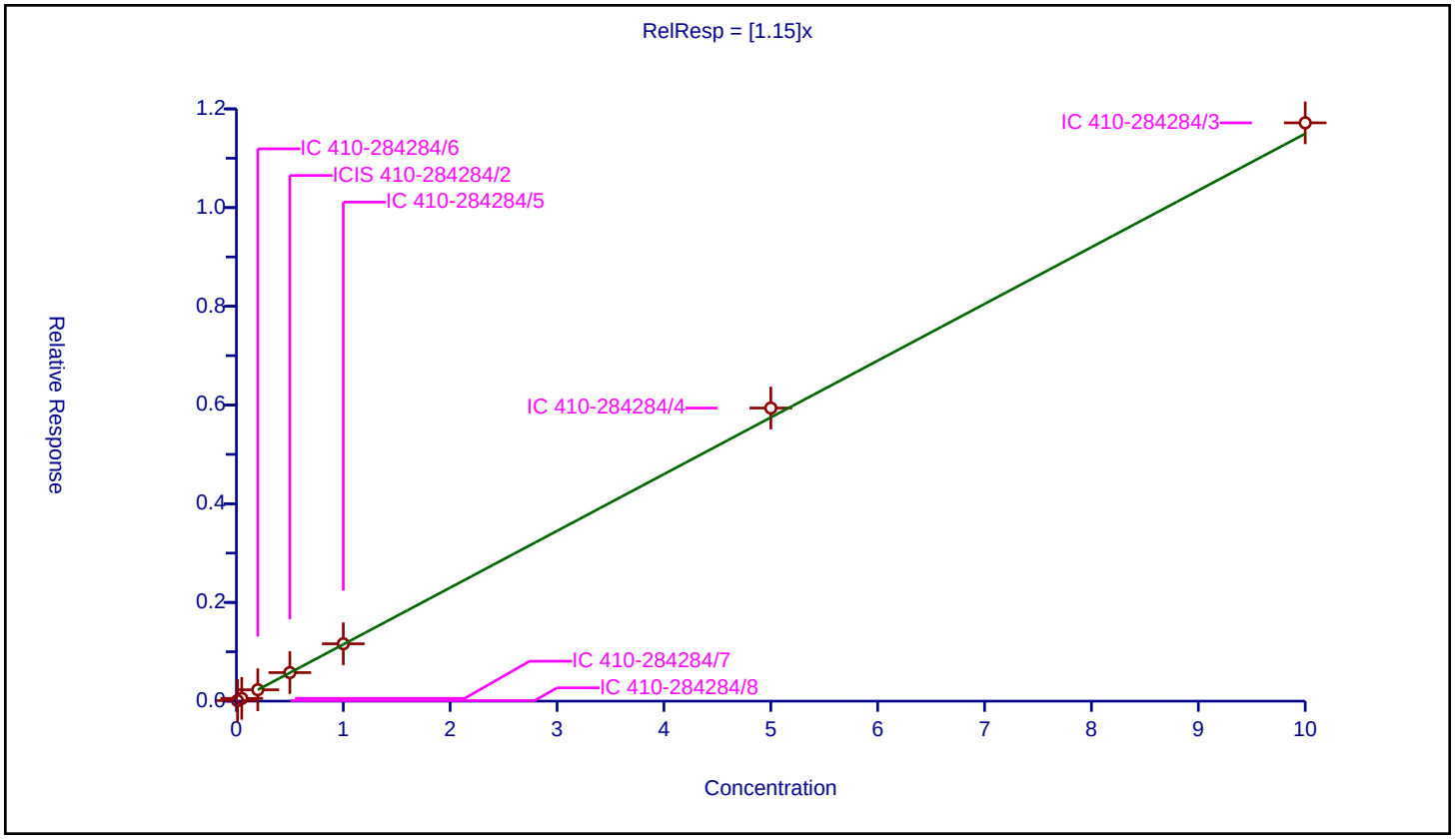
Curve Coefficients

Intercept:	0
Slope:	1.15

Error Coefficients

Standard Error:	734000
Relative Standard Error:	2.7
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-284284/8	0.01	0.011024	1.0	131166.0	1.10242	Y
2	IC 410-284284/7	0.05	0.05568	1.0	132040.0	1.113602	Y
3	IC 410-284284/6	0.2	0.230863	1.0	130779.0	1.154314	Y
4	ICIS 410-284284/2	0.5	0.578034	1.0	153882.0	1.156068	Y
5	IC 410-284284/5	1.0	1.162023	1.0	134166.0	1.162023	Y
6	IC 410-284284/4	5.0	5.938619	1.0	145974.0	1.187724	Y
7	IC 410-284284/3	10.0	11.717416	1.0	133539.0	1.171742	Y



Calibration / Anthracene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

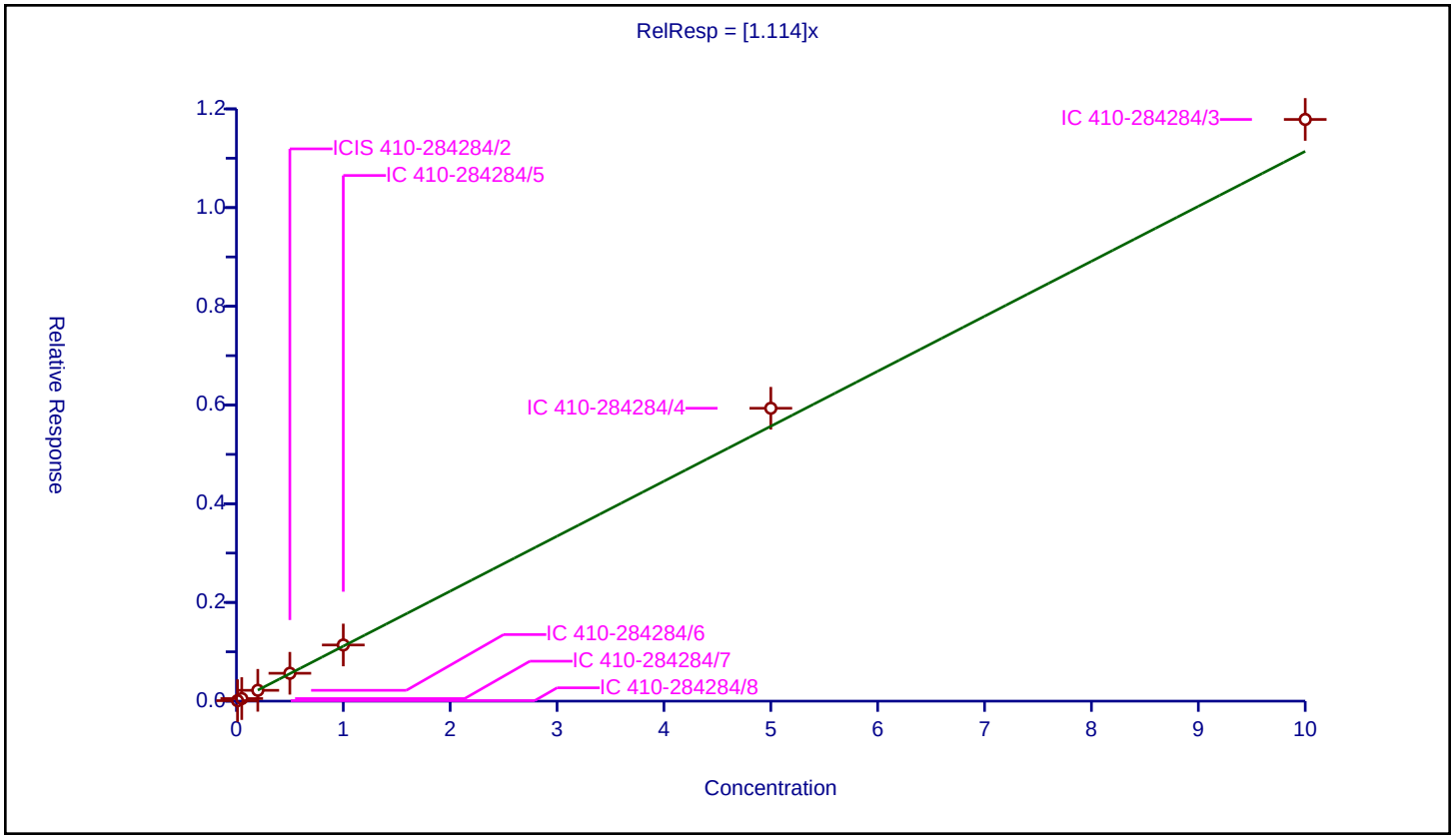
Curve Coefficients

Intercept:	0
Slope:	1.114

Error Coefficients

Standard Error:	737000
Relative Standard Error:	5.6
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-284284/8	0.01	0.010224	1.0	131166.0	1.022369	Y
2	IC 410-284284/7	0.05	0.052302	1.0	132040.0	1.046047	Y
3	IC 410-284284/6	0.2	0.219393	1.0	130779.0	1.096965	Y
4	ICIS 410-284284/2	0.5	0.56464	1.0	153882.0	1.129281	Y
5	IC 410-284284/5	1.0	1.138068	1.0	134166.0	1.138068	Y
6	IC 410-284284/4	5.0	5.93416	1.0	145974.0	1.186832	Y
7	IC 410-284284/3	10.0	11.786377	1.0	133539.0	1.178638	Y



Calibration / Di-n-butyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

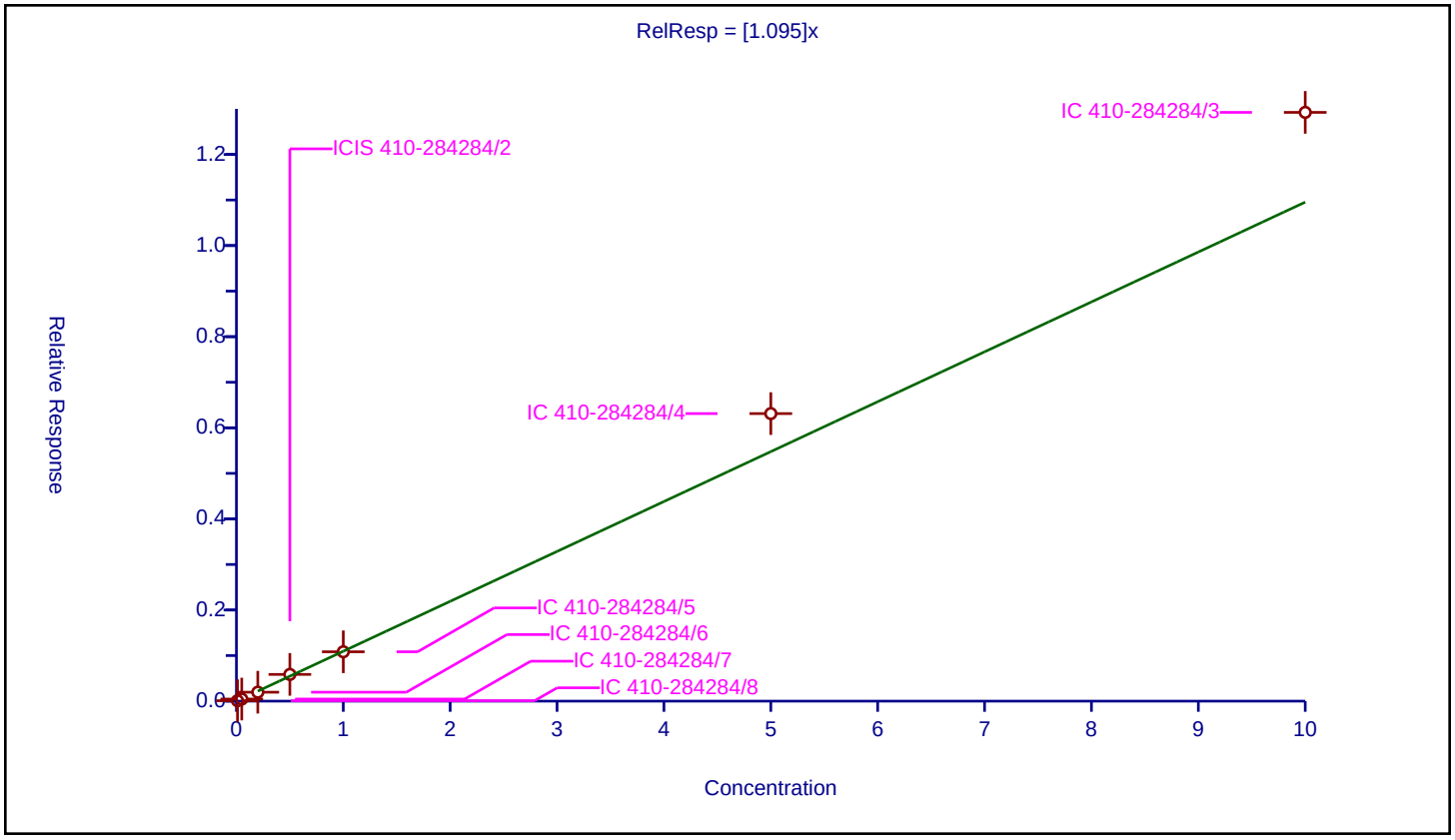
Curve Coefficients

Intercept:	0
Slope:	1.095

Error Coefficients

Standard Error:	802000
Relative Standard Error:	13.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-284284/8	0.01	0.009621	1.0	131166.0	0.96214	Y
2	IC 410-284284/7	0.05	0.045729	1.0	132040.0	0.914571	Y
3	IC 410-284284/6	0.2	0.195849	1.0	130779.0	0.979247	Y
4	ICIS 410-284284/2	0.5	0.586612	1.0	153882.0	1.173224	Y
5	IC 410-284284/5	1.0	1.083479	1.0	134166.0	1.083479	Y
6	IC 410-284284/4	5.0	6.312028	1.0	145974.0	1.262406	Y
7	IC 410-284284/3	10.0	12.923408	1.0	133539.0	1.292341	Y



Calibration / Fluoranthene-d10 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

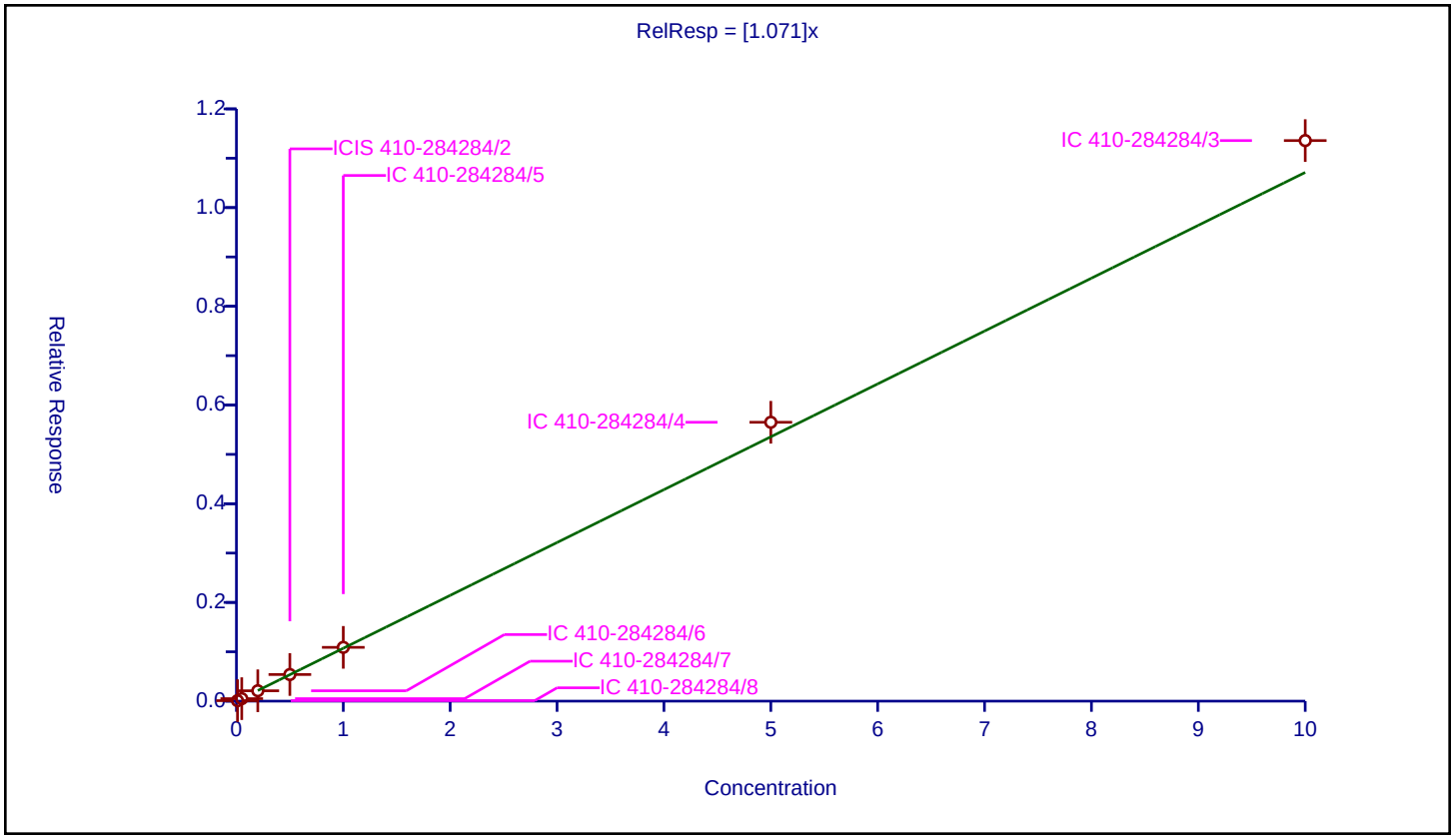
Curve Coefficients

Intercept:	0
Slope:	1.071

Error Coefficients

Standard Error:	708000
Relative Standard Error:	4.9
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-284284/8	0.01	0.010086	1.0	131166.0	1.008646	Y
2	IC 410-284284/7	0.05	0.05022	1.0	132040.0	1.004393	Y
3	IC 410-284284/6	0.2	0.210309	1.0	130779.0	1.051545	Y
4	ICIS 410-284284/2	0.5	0.539348	1.0	153882.0	1.078697	Y
5	IC 410-284284/5	1.0	1.089747	1.0	134166.0	1.089747	Y
6	IC 410-284284/4	5.0	5.650513	1.0	145974.0	1.130103	Y
7	IC 410-284284/3	10.0	11.357633	1.0	133539.0	1.135763	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

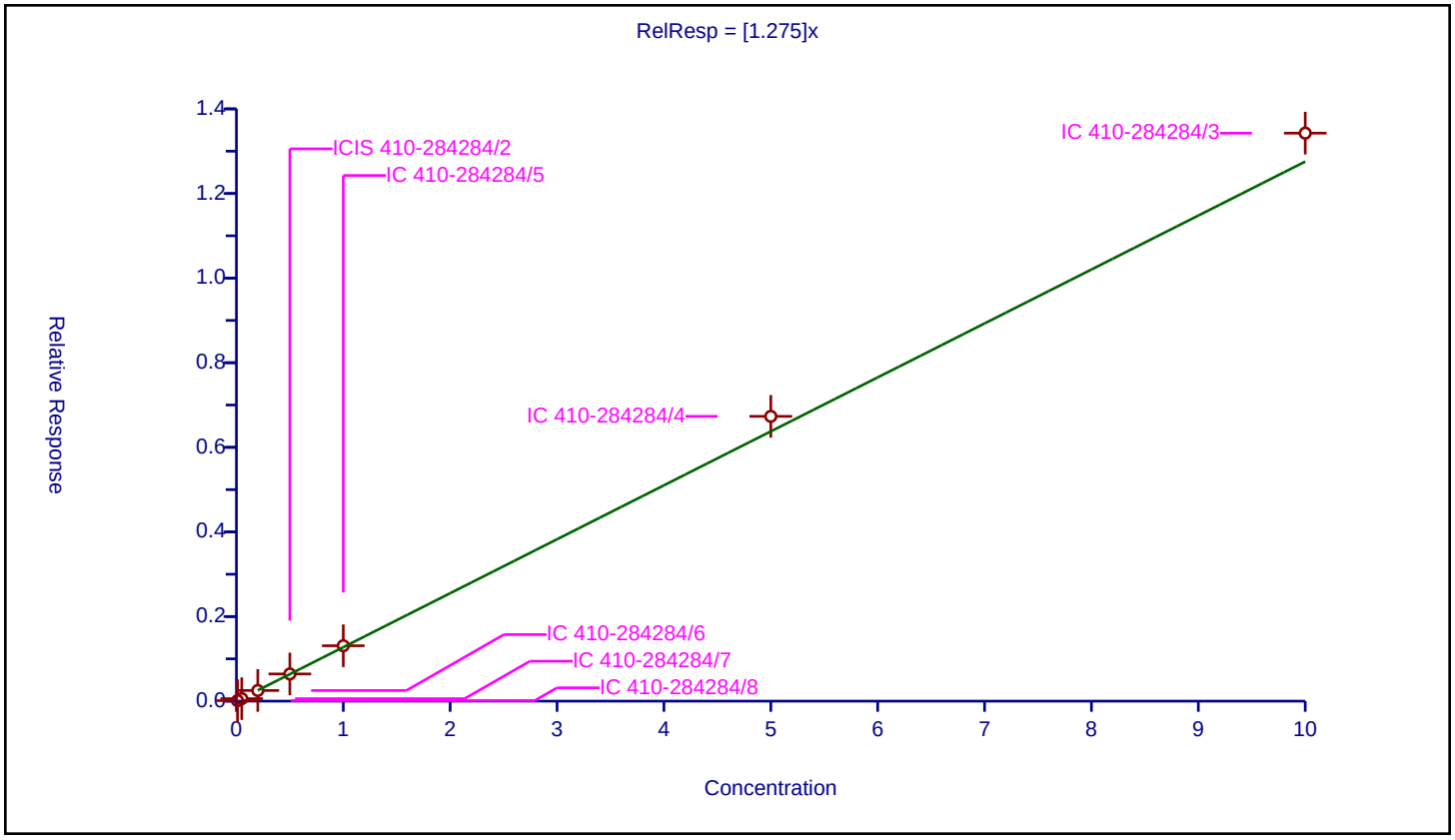
Curve Coefficients

Intercept:	0
Slope:	1.275

Error Coefficients

Standard Error:	839000
Relative Standard Error:	5.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-284284/8	0.01	0.012061	1.0	131166.0	1.206105	Y
2	IC 410-284284/7	0.05	0.059081	1.0	132040.0	1.181612	Y
3	IC 410-284284/6	0.2	0.251271	1.0	130779.0	1.256356	Y
4	ICIS 410-284284/2	0.5	0.642622	1.0	153882.0	1.285245	Y
5	IC 410-284284/5	1.0	1.309385	1.0	134166.0	1.309385	Y
6	IC 410-284284/4	5.0	6.732233	1.0	145974.0	1.346447	Y
7	IC 410-284284/3	10.0	13.426385	1.0	133539.0	1.342638	Y



Calibration / Pyrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

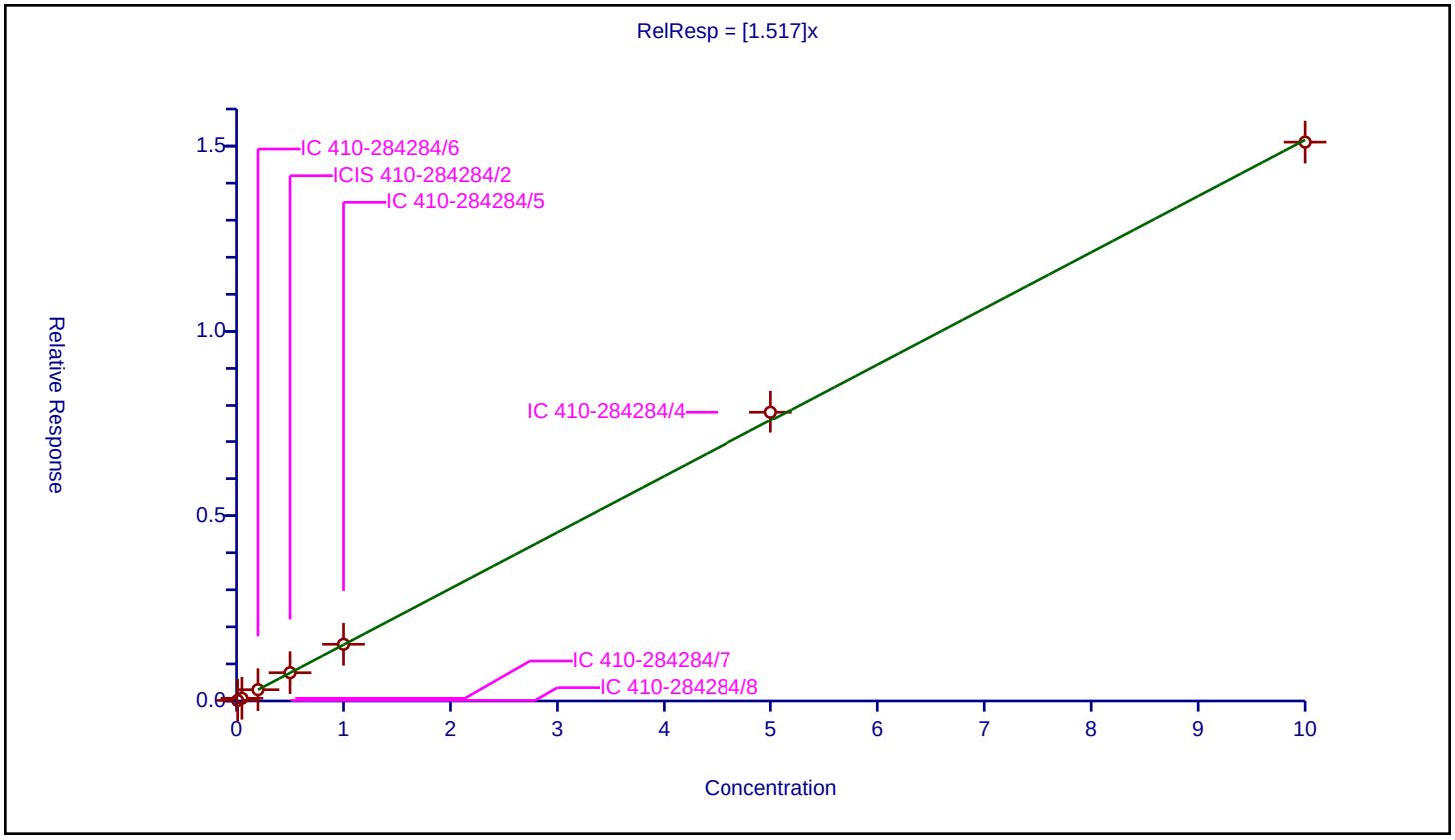
Curve Coefficients

Intercept:	0
Slope:	1.517

Error Coefficients

Standard Error:	867000
Relative Standard Error:	2.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-284284/8	0.01	0.014946	1.0	109593.0	1.494621	Y
2	IC 410-284284/7	0.05	0.073296	1.0	111207.0	1.465915	Y
3	IC 410-284284/6	0.2	0.304872	1.0	111181.0	1.524361	Y
4	ICIS 410-284284/2	0.5	0.763307	1.0	134512.0	1.526615	Y
5	IC 410-284284/5	1.0	1.530682	1.0	117724.0	1.530682	Y
6	IC 410-284284/4	5.0	7.818183	1.0	129993.0	1.563637	Y
7	IC 410-284284/3	10.0	15.106712	1.0	122732.0	1.510671	Y



Calibration / Butyl benzyl phthalate

Curve Type:	Quadratic
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

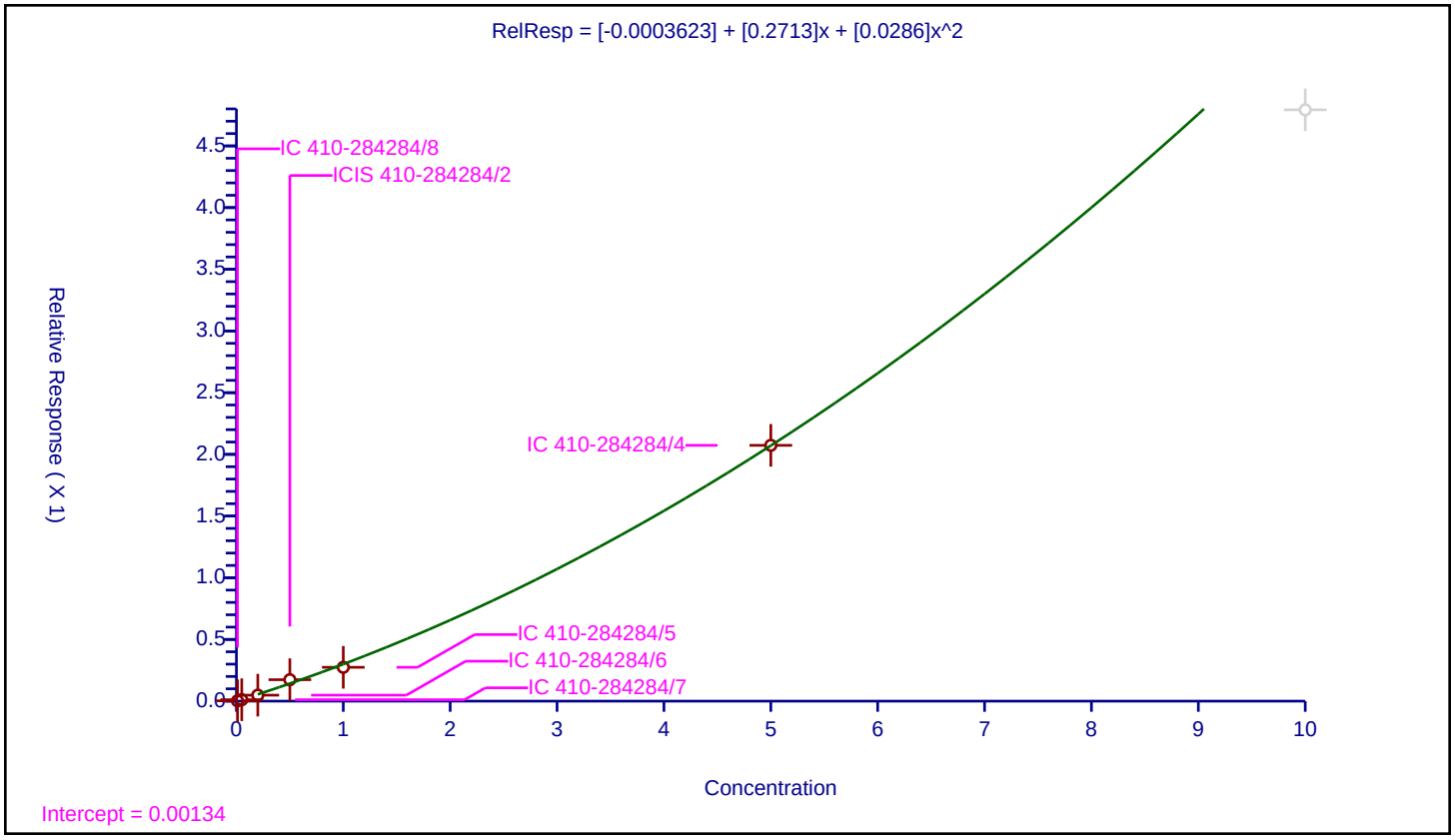
Curve Coefficients

Intercept:	-0.0003623
Slope:	0.2713
Second Order:	0.0286

Error Coefficients

Standard Error:	157000
Relative Standard Error:	17.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-284284/8	0.01	0.002674	1.0	109593.0	0.267353	Y
2	IC 410-284284/7	0.05	0.011447	1.0	111207.0	0.228942	Y
3	IC 410-284284/6	0.2	0.048426	1.0	111181.0	0.242128	Y
4	ICIS 410-284284/2	0.5	0.173598	1.0	134512.0	0.347196	Y
5	IC 410-284284/5	1.0	0.274218	1.0	117724.0	0.274218	Y
6	IC 410-284284/4	5.0	2.073289	1.0	129993.0	0.414658	Y
7	IC 410-284284/3	10.0	4.792458	1.0	122732.0	0.479246	N



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

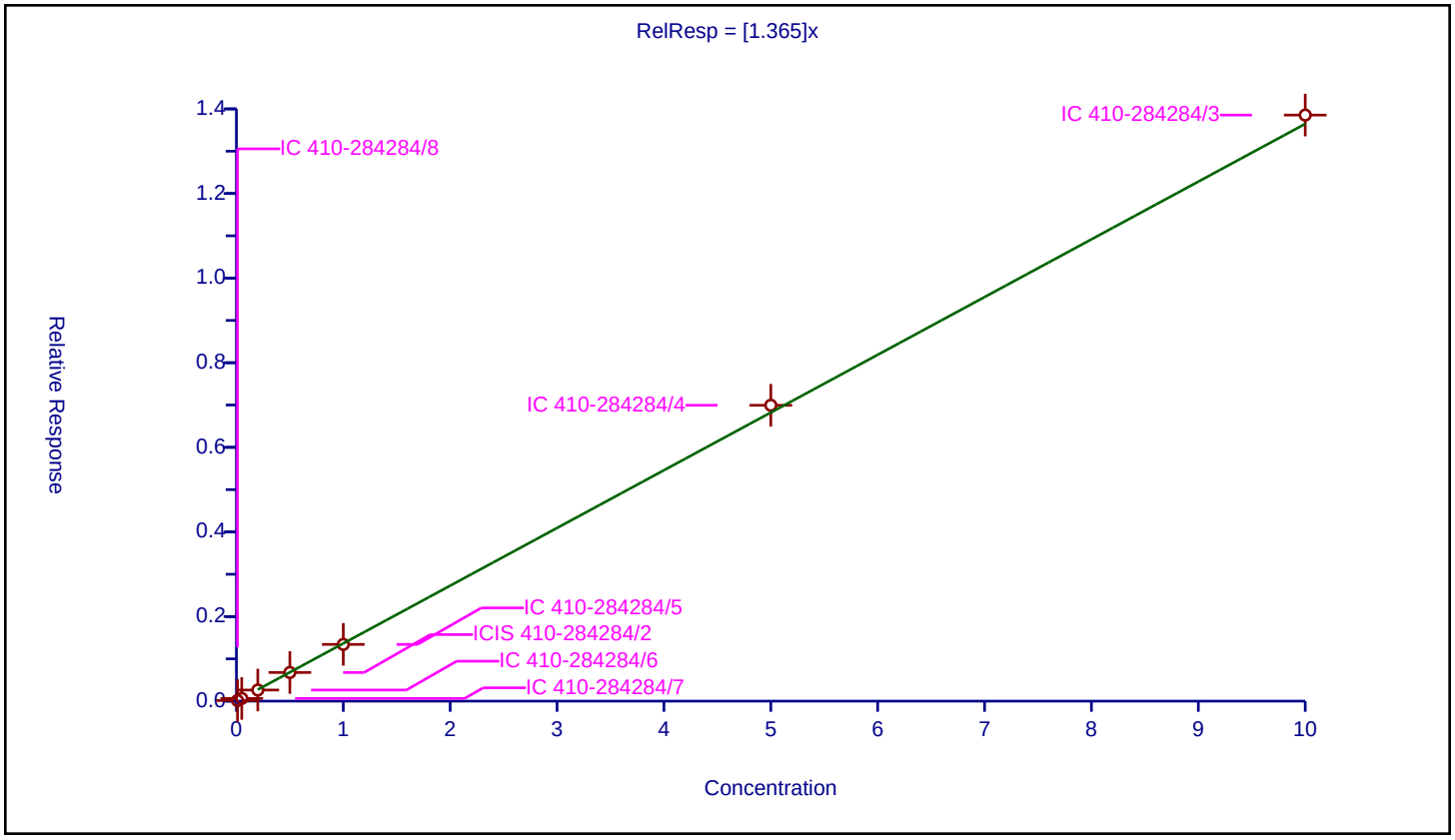
Curve Coefficients

Intercept:	0
Slope:	1.365

Error Coefficients

Standard Error:	791000
Relative Standard Error:	5.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-284284/8	0.01	0.014846	1.0	109593.0	1.484584	Y
2	IC 410-284284/7	0.05	0.063593	1.0	111207.0	1.271862	Y
3	IC 410-284284/6	0.2	0.263165	1.0	111181.0	1.315827	Y
4	ICIS 410-284284/2	0.5	0.677062	1.0	134512.0	1.354125	Y
5	IC 410-284284/5	1.0	1.341264	1.0	117724.0	1.341264	Y
6	IC 410-284284/4	5.0	6.99363	1.0	129993.0	1.398726	Y
7	IC 410-284284/3	10.0	13.854032	1.0	122732.0	1.385403	Y



Calibration / Chrysene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

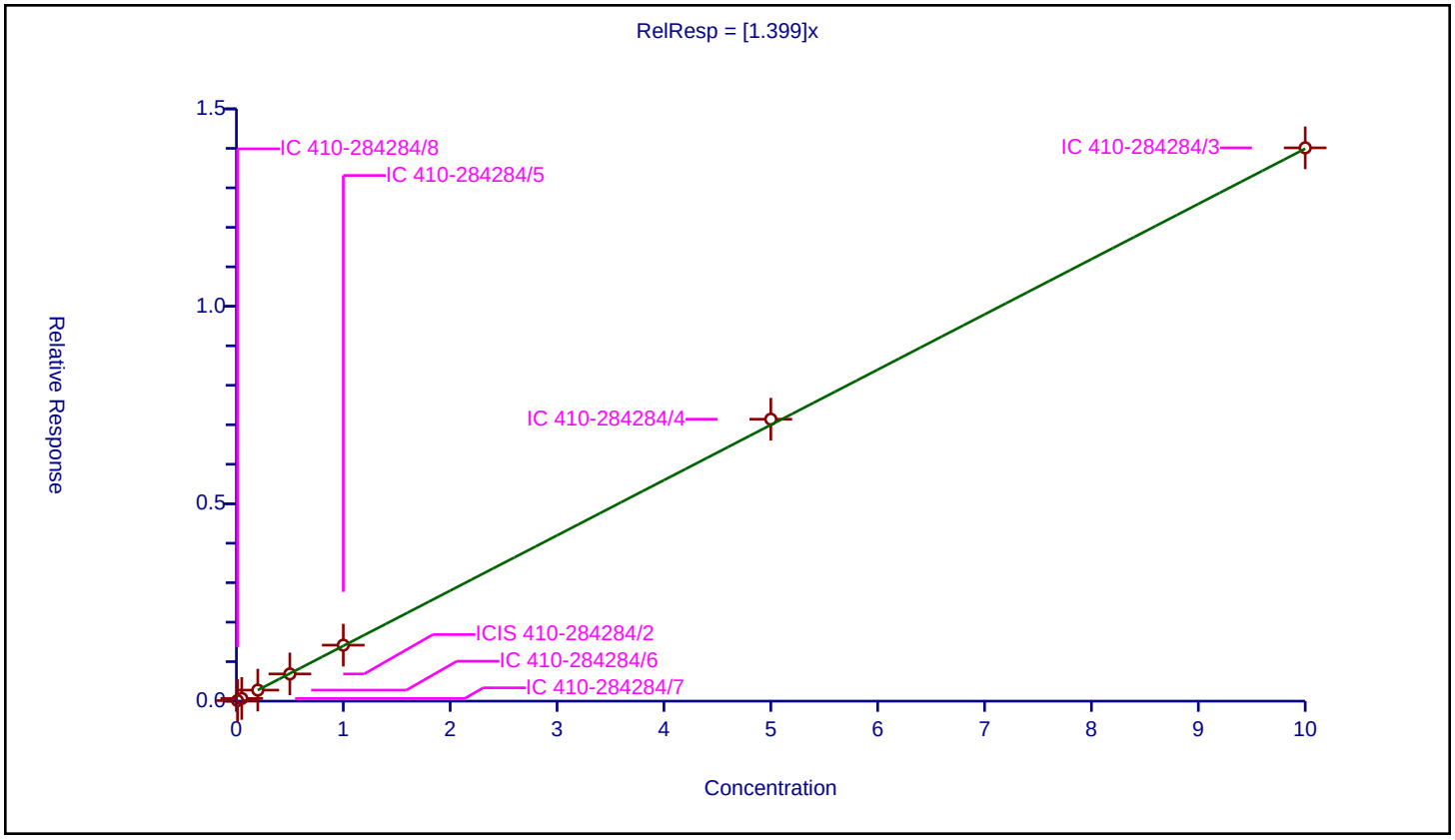
Curve Coefficients

Intercept:	0
Slope:	1.399

Error Coefficients

Standard Error:	802000
Relative Standard Error:	1.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-284284/8	0.01	0.014152	1.0	109593.0	1.415236	Y
2	IC 410-284284/7	0.05	0.067712	1.0	111207.0	1.354231	Y
3	IC 410-284284/6	0.2	0.279823	1.0	111181.0	1.399115	Y
4	ICIS 410-284284/2	0.5	0.68921	1.0	134512.0	1.37842	Y
5	IC 410-284284/5	1.0	1.418131	1.0	117724.0	1.418131	Y
6	IC 410-284284/4	5.0	7.140785	1.0	129993.0	1.428157	Y
7	IC 410-284284/3	10.0	14.013322	1.0	122732.0	1.401332	Y



Calibration / Bis(2-ethylhexyl) phthalate

Curve Type:	Quadratic
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

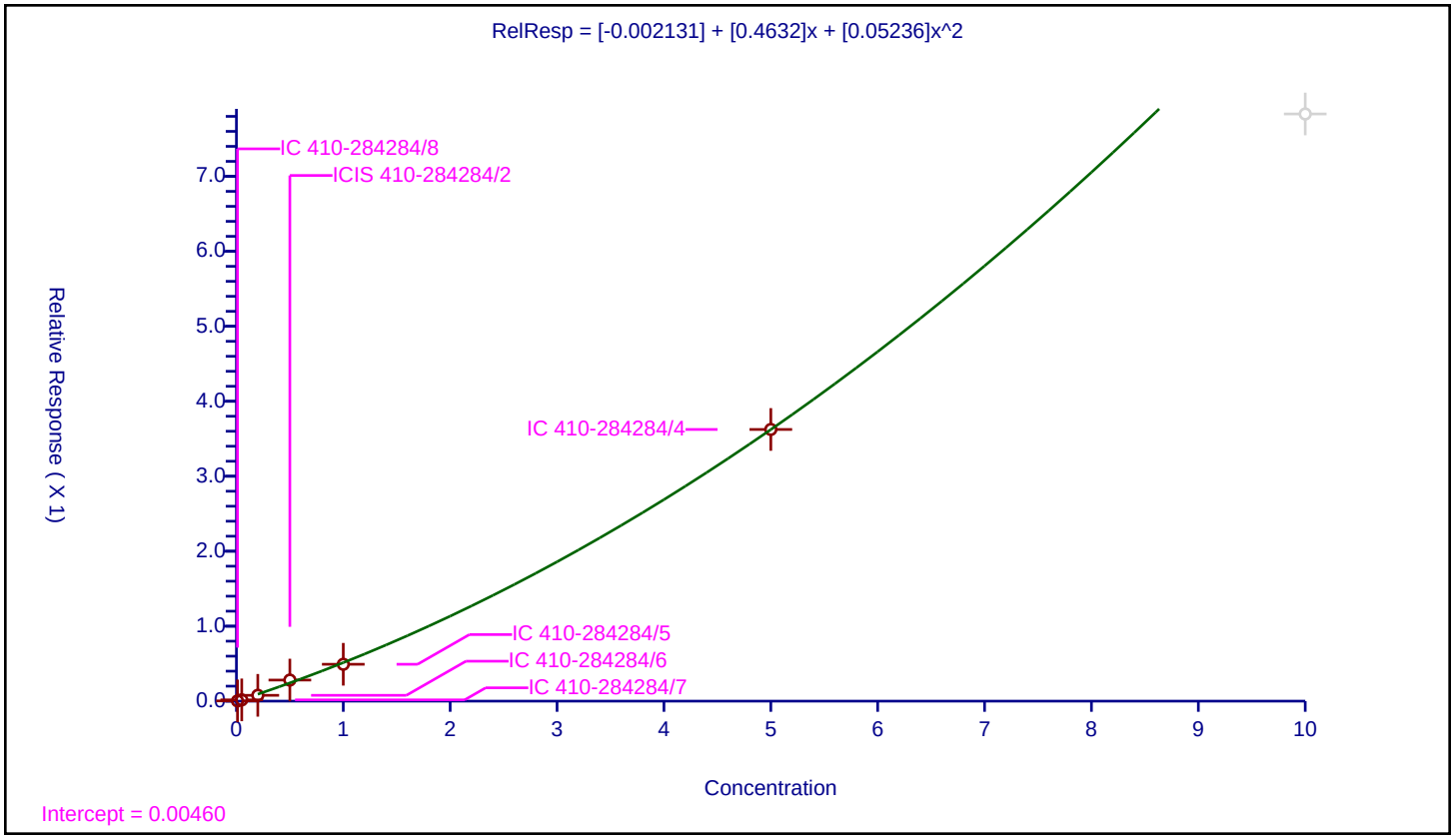
Curve Coefficients

Intercept:	-0.002131
Slope:	0.4632
Second Order:	0.05236

Error Coefficients

Standard Error:	275000
Relative Standard Error:	20.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-284284/8	0.01	0.003531	1.0	109593.0	0.353125	Y
2	IC 410-284284/7	0.05	0.016995	1.0	111207.0	0.339907	Y
3	IC 410-284284/6	0.2	0.07754	1.0	111181.0	0.387701	Y
4	ICIS 410-284284/2	0.5	0.281283	1.0	134512.0	0.562567	Y
5	IC 410-284284/5	1.0	0.491777	1.0	117724.0	0.491777	Y
6	IC 410-284284/4	5.0	3.623795	1.0	129993.0	0.724759	Y
7	IC 410-284284/3	10.0	7.832212	1.0	122732.0	0.783221	N



Calibration / Di-n-octyl phthalate

Curve Type:	Quadratic
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

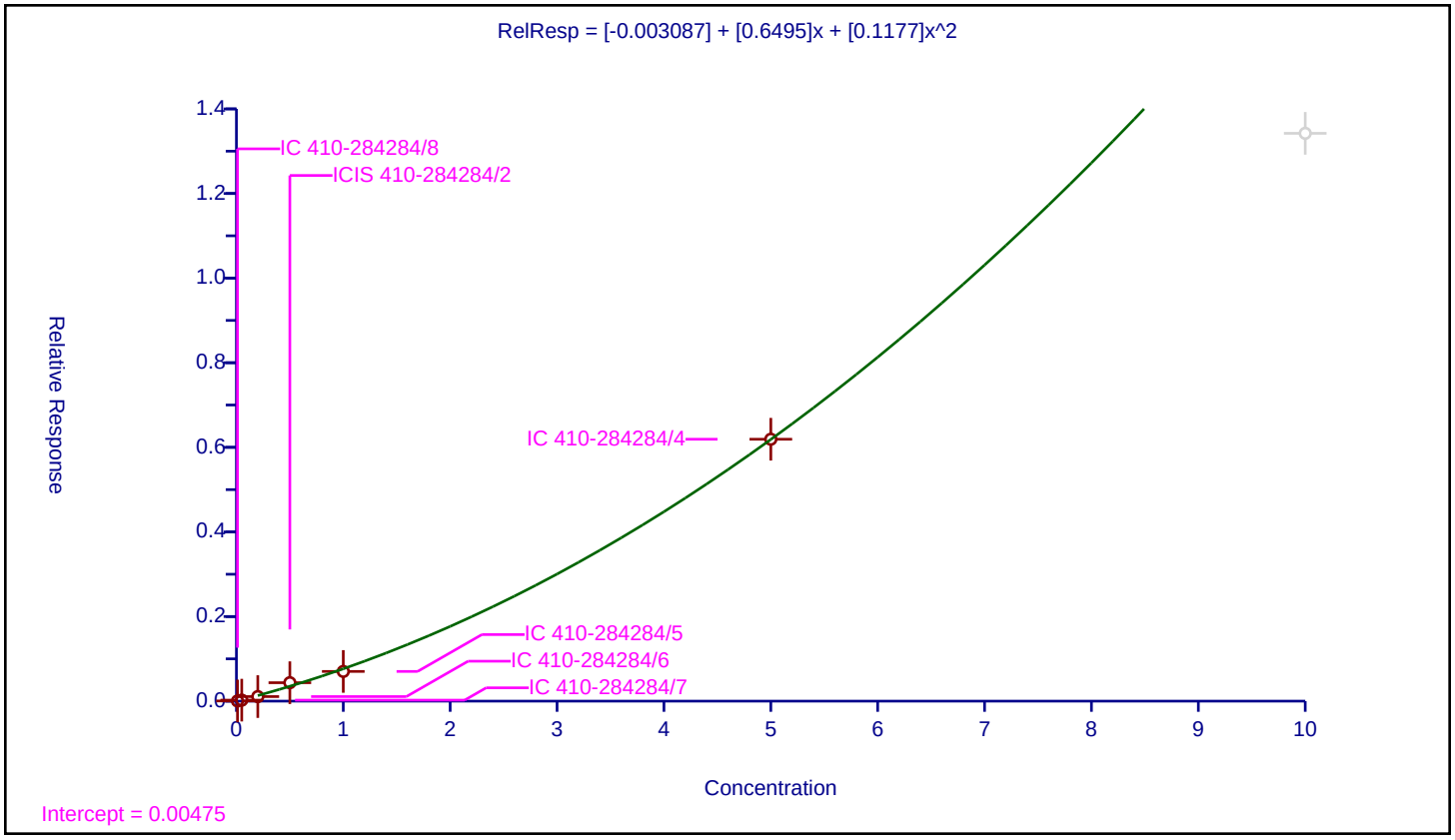
Curve Coefficients

Intercept:	-0.003087
Slope:	0.6495
Second Order:	0.1177

Error Coefficients

Standard Error:	406000
Relative Standard Error:	22.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-284284/8	0.01	0.004661	1.0	99978.0	0.466103	Y
2	IC 410-284284/7	0.05	0.02388	1.0	101548.0	0.477607	Y
3	IC 410-284284/6	0.2	0.10806	1.0	102795.0	0.540299	Y
4	ICIS 410-284284/2	0.5	0.436055	1.0	123849.0	0.87211	Y
5	IC 410-284284/5	1.0	0.702223	1.0	106882.0	0.702223	Y
6	IC 410-284284/4	5.0	6.190992	1.0	112460.0	1.238198	Y
7	IC 410-284284/3	10.0	13.422315	1.0	113915.0	1.342231	N



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

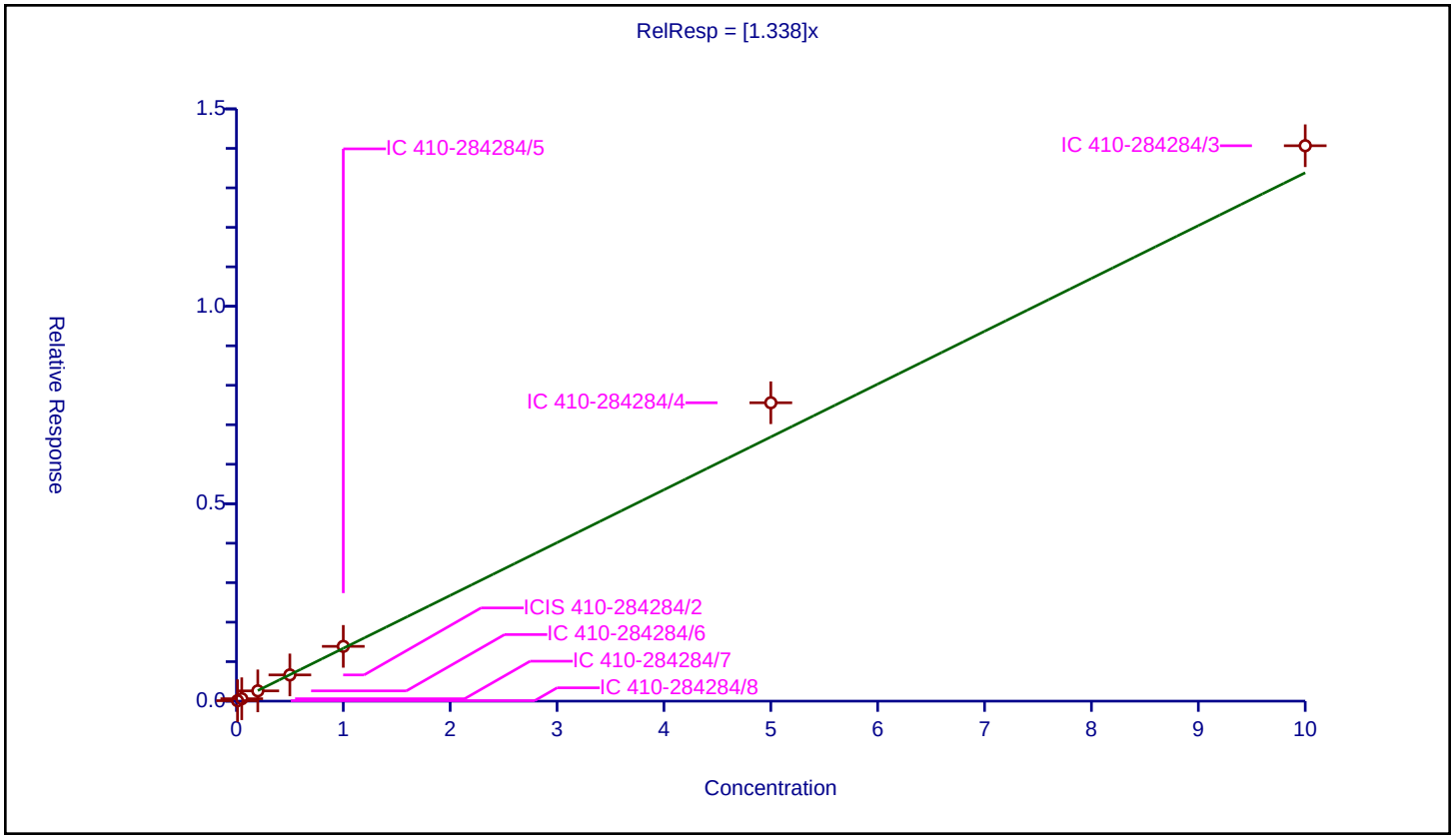
Curve Coefficients

Intercept:	0
Slope:	1.338

Error Coefficients

Standard Error:	744000
Relative Standard Error:	8.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-284284/8	0.01	0.012103	1.0	99978.0	1.210266	Y
2	IC 410-284284/7	0.05	0.061153	1.0	101548.0	1.223067	Y
3	IC 410-284284/6	0.2	0.2601	1.0	102795.0	1.300501	Y
4	ICIS 410-284284/2	0.5	0.664091	1.0	123849.0	1.328182	Y
5	IC 410-284284/5	1.0	1.387511	1.0	106882.0	1.387511	Y
6	IC 410-284284/4	5.0	7.557514	1.0	112460.0	1.511503	Y
7	IC 410-284284/3	10.0	14.067147	1.0	113915.0	1.406715	Y



Calibration / Benzo[k]fluoranthene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

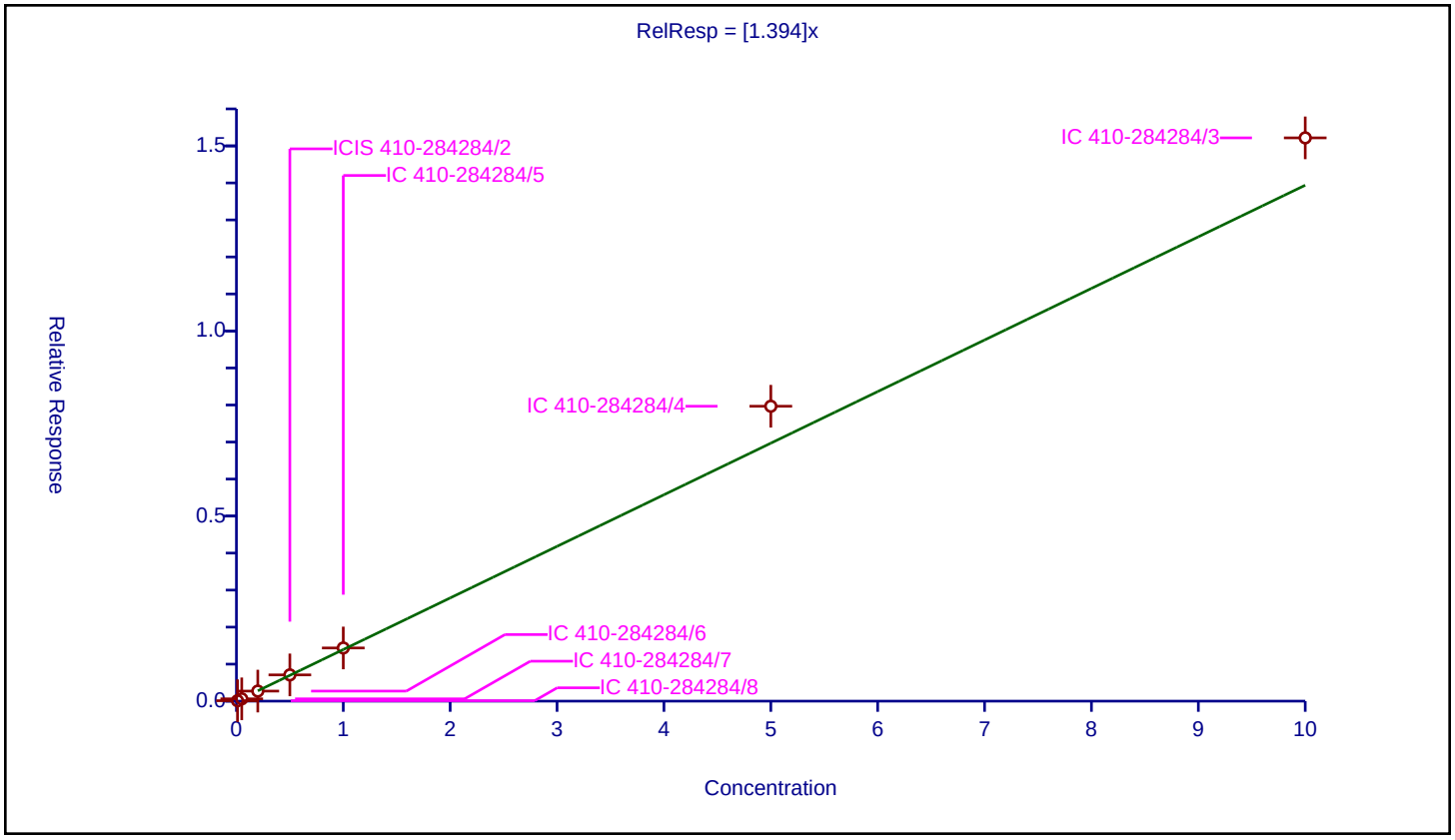
Curve Coefficients

Intercept:	0
Slope:	1.394

Error Coefficients

Standard Error:	800000
Relative Standard Error:	10.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-284284/8	0.01	0.011853	1.0	99978.0	1.185261	Y
2	IC 410-284284/7	0.05	0.062079	1.0	101548.0	1.24158	Y
3	IC 410-284284/6	0.2	0.271861	1.0	102795.0	1.359307	Y
4	ICIS 410-284284/2	0.5	0.709332	1.0	123849.0	1.418663	Y
5	IC 410-284284/5	1.0	1.436678	1.0	106882.0	1.436678	Y
6	IC 410-284284/4	5.0	7.966877	1.0	112460.0	1.593375	Y
7	IC 410-284284/3	10.0	15.216881	1.0	113915.0	1.521688	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

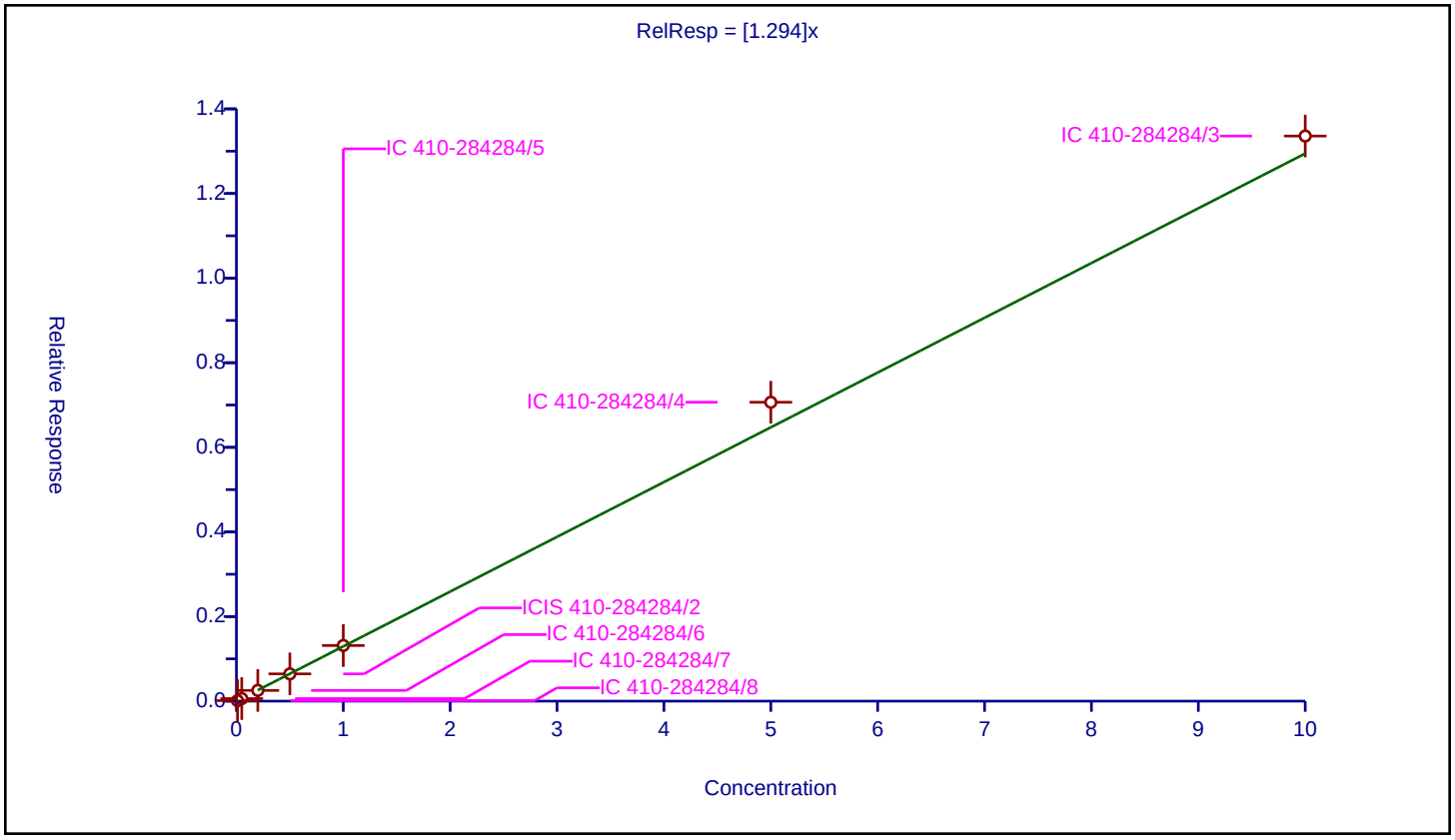
Curve Coefficients

Intercept:	0
Slope:	1.294

Error Coefficients

Standard Error:	704000
Relative Standard Error:	5.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-284284/8	0.01	0.012353	1.0	99978.0	1.235272	Y
2	IC 410-284284/7	0.05	0.060356	1.0	101548.0	1.207114	Y
3	IC 410-284284/6	0.2	0.2533	1.0	102795.0	1.266501	Y
4	ICIS 410-284284/2	0.5	0.644244	1.0	123849.0	1.288488	Y
5	IC 410-284284/5	1.0	1.315114	1.0	106882.0	1.315114	Y
6	IC 410-284284/4	5.0	7.065463	1.0	112460.0	1.413093	Y
7	IC 410-284284/3	10.0	13.358662	1.0	113915.0	1.335866	Y



Calibration / Benzo(a)pyrene-d12 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

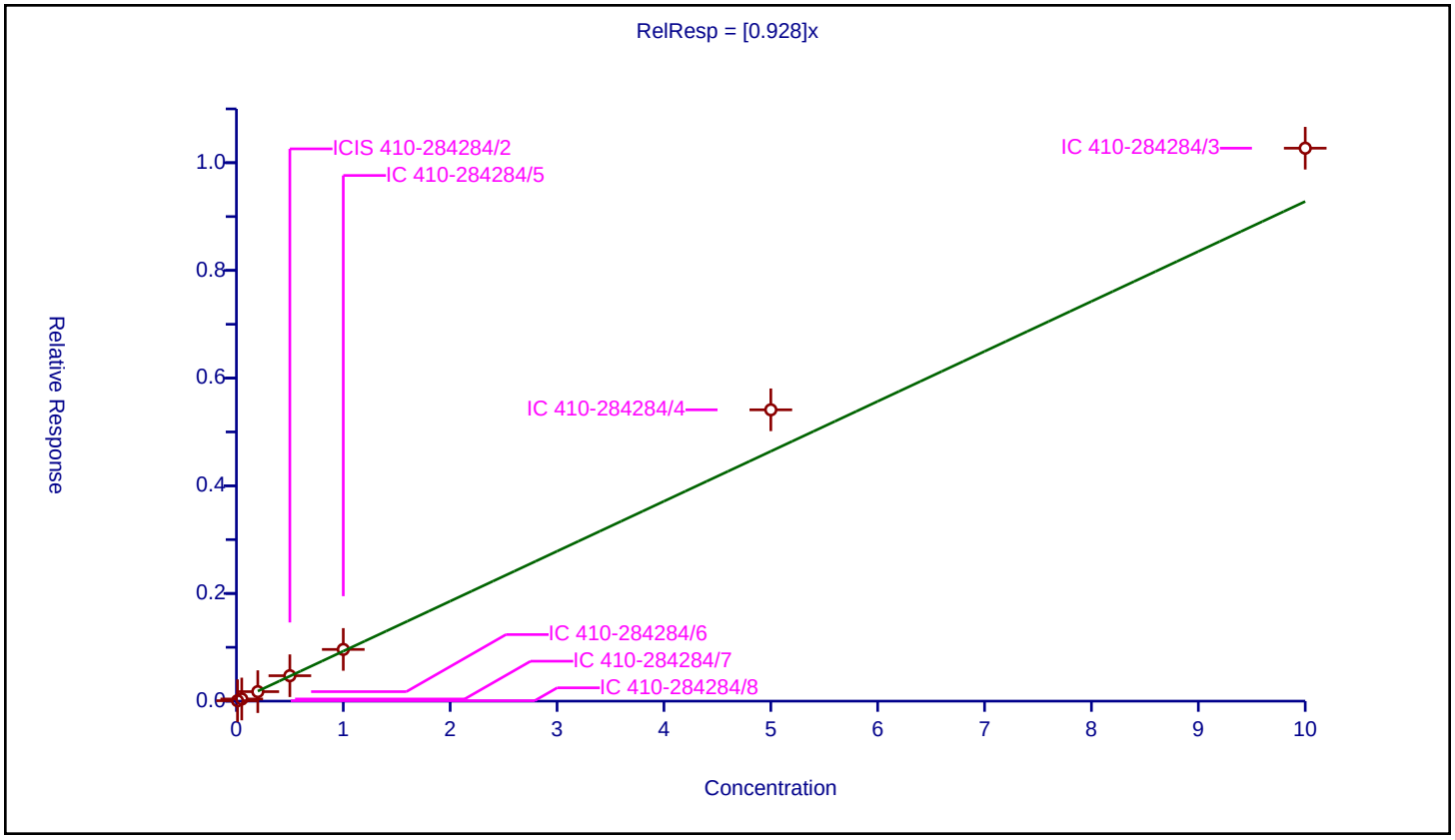
Curve Coefficients

Intercept:	0
Slope:	0.928

Error Coefficients

Standard Error:	541000
Relative Standard Error:	11.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-284284/8	0.01	0.008022	1.0	99978.0	0.802176	Y
2	IC 410-284284/7	0.05	0.039961	1.0	101548.0	0.799228	Y
3	IC 410-284284/6	0.2	0.176108	1.0	102795.0	0.880539	Y
4	ICIS 410-284284/2	0.5	0.472341	1.0	123849.0	0.944683	Y
5	IC 410-284284/5	1.0	0.960452	1.0	106882.0	0.960452	Y
6	IC 410-284284/4	5.0	5.410991	1.0	112460.0	1.082198	Y
7	IC 410-284284/3	10.0	10.269833	1.0	113915.0	1.026983	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

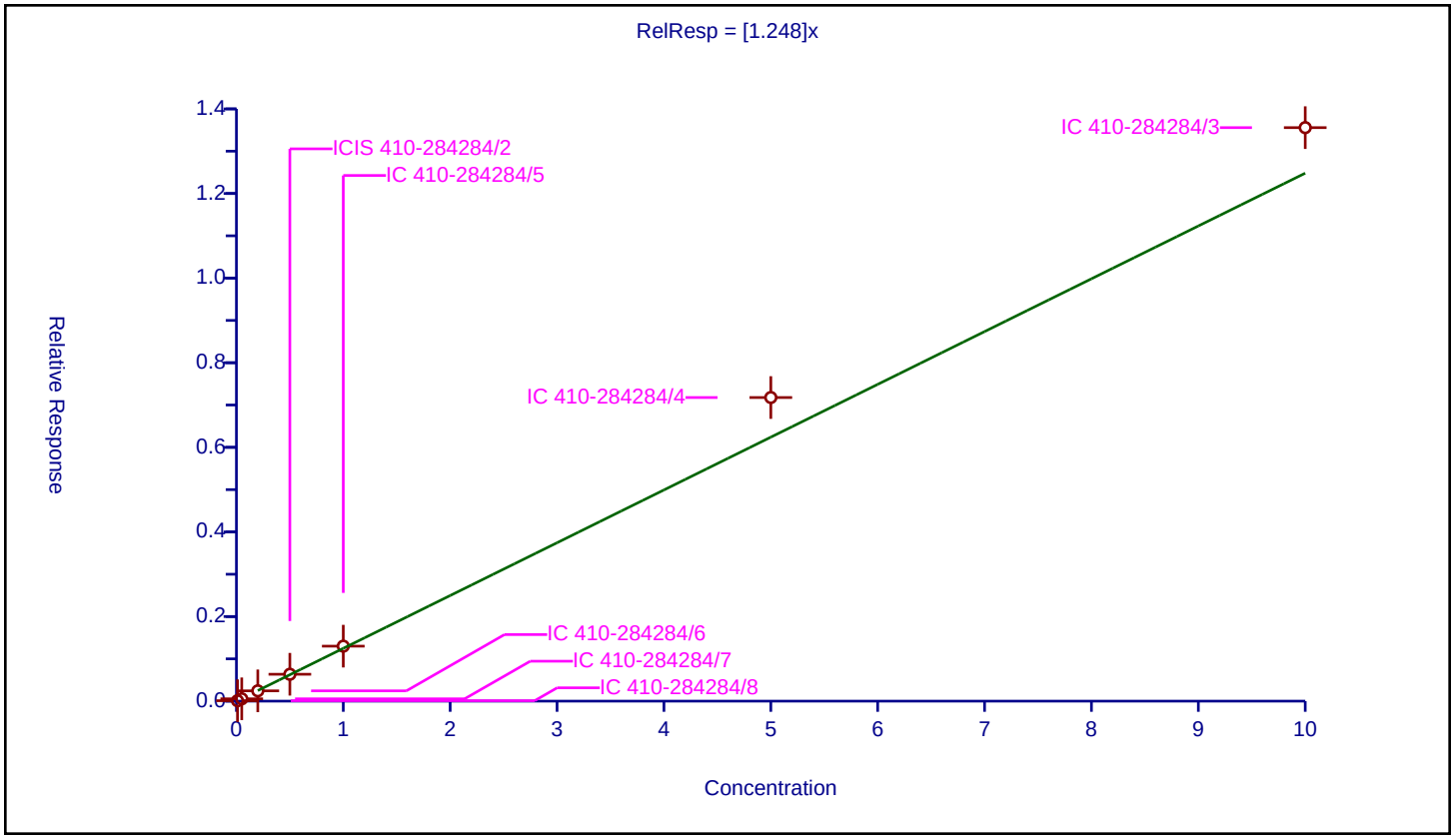
Curve Coefficients

Intercept:	0
Slope:	1.248

Error Coefficients

Standard Error:	714000
Relative Standard Error:	10.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-284284/8	0.01	0.010582	1.0	99978.0	1.058233	Y
2	IC 410-284284/7	0.05	0.05493	1.0	101548.0	1.098594	Y
3	IC 410-284284/6	0.2	0.243553	1.0	102795.0	1.217764	Y
4	ICIS 410-284284/2	0.5	0.63533	1.0	123849.0	1.27066	Y
5	IC 410-284284/5	1.0	1.299686	1.0	106882.0	1.299686	Y
6	IC 410-284284/4	5.0	7.177201	1.0	112460.0	1.43544	Y
7	IC 410-284284/3	10.0	13.55688	1.0	113915.0	1.355688	Y



Calibration / Perylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

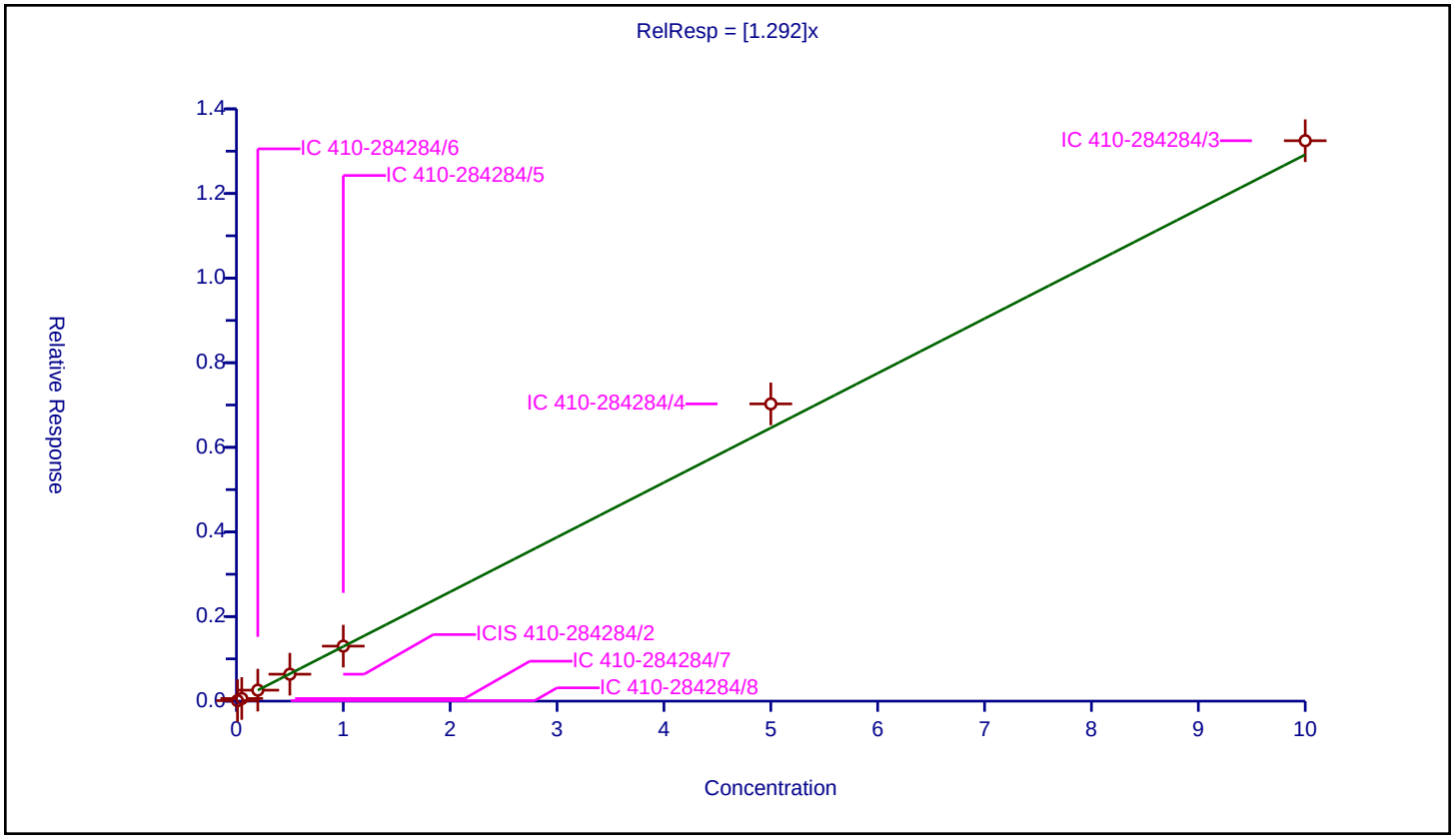
Curve Coefficients

Intercept:	0
Slope:	1.292

Error Coefficients

Standard Error:	699000
Relative Standard Error:	5.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-284284/8	0.01	0.012023	1.0	99978.0	1.202264	Y
2	IC 410-284284/7	0.05	0.061892	1.0	101548.0	1.237838	Y
3	IC 410-284284/6	0.2	0.259682	1.0	102795.0	1.298409	Y
4	ICIS 410-284284/2	0.5	0.636735	1.0	123849.0	1.27347	Y
5	IC 410-284284/5	1.0	1.300434	1.0	106882.0	1.300434	Y
6	IC 410-284284/4	5.0	7.026463	1.0	112460.0	1.405293	Y
7	IC 410-284284/3	10.0	13.247571	1.0	113915.0	1.324757	Y



Calibration / Indeno[1,2,3-cd]pyrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

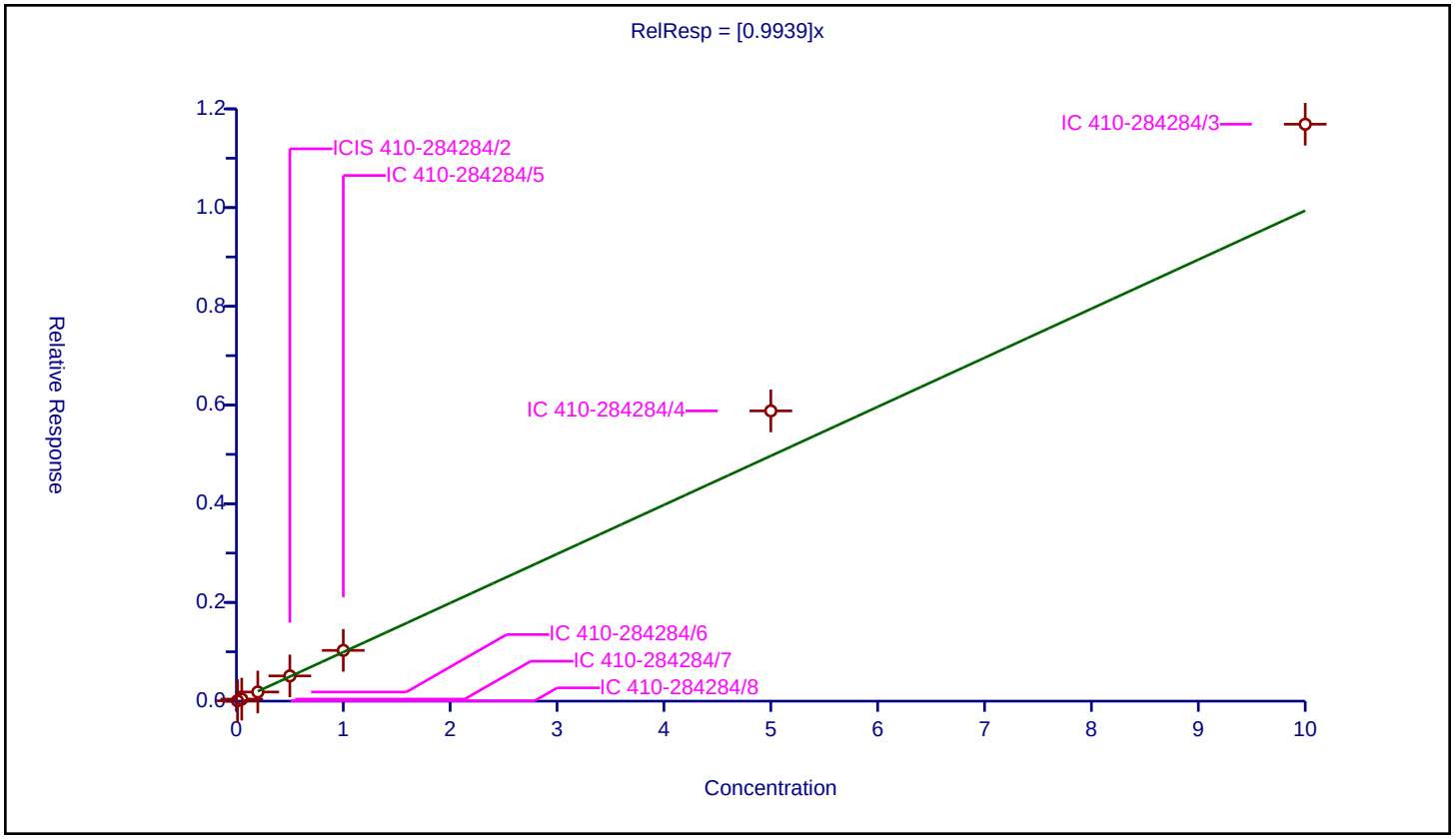
Curve Coefficients

Intercept:	0
Slope:	0.9939

Error Coefficients

Standard Error:	609000
Relative Standard Error:	15.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-284284/8	0.01	0.008072	1.0	99978.0	0.807178	Y
2	IC 410-284284/7	0.05	0.041379	1.0	101548.0	0.827589	Y
3	IC 410-284284/6	0.2	0.185291	1.0	102795.0	0.926456	Y
4	ICIS 410-284284/2	0.5	0.51126	1.0	123849.0	1.022519	Y
5	IC 410-284284/5	1.0	1.028396	1.0	106882.0	1.028396	Y
6	IC 410-284284/4	5.0	5.880864	1.0	112460.0	1.176173	Y
7	IC 410-284284/3	10.0	11.688908	1.0	113915.0	1.168891	Y



Calibration / Dibenz(a,h)anthracene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

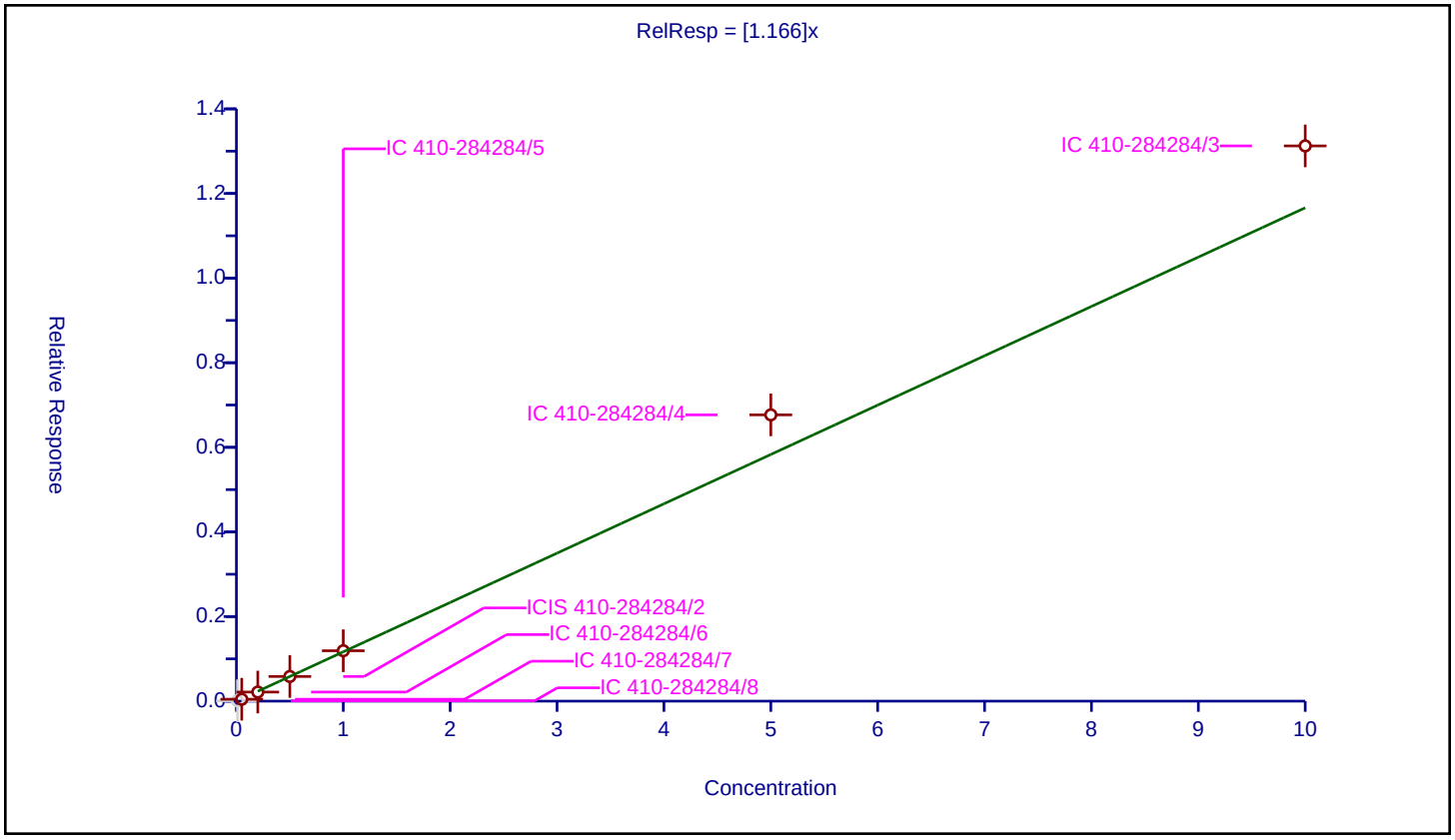
Curve Coefficients

Intercept:	0
Slope:	1.166

Error Coefficients

Standard Error:	753000
Relative Standard Error:	14.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.979

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-284284/8	0.01	0.008462	1.0	99978.0	0.846186	N
2	IC 410-284284/7	0.05	0.044944	1.0	101548.0	0.898885	Y
3	IC 410-284284/6	0.2	0.214991	1.0	102795.0	1.074955	Y
4	ICIS 410-284284/2	0.5	0.583049	1.0	123849.0	1.166097	Y
5	IC 410-284284/5	1.0	1.191267	1.0	106882.0	1.191267	Y
6	IC 410-284284/4	5.0	6.76742	1.0	112460.0	1.353484	Y
7	IC 410-284284/3	10.0	13.124654	1.0	113915.0	1.312465	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

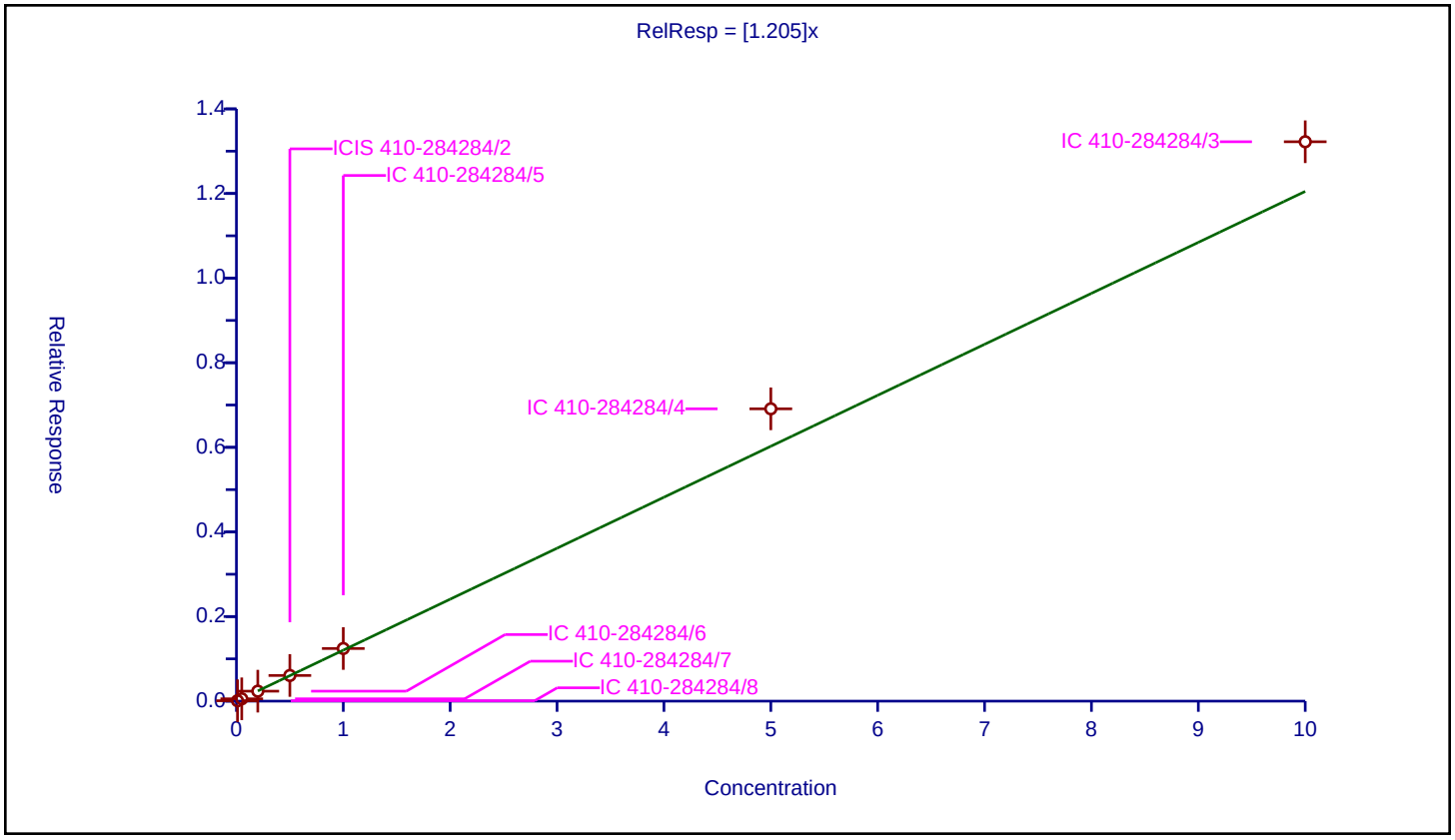
Curve Coefficients

Intercept:	0
Slope:	1.205

Error Coefficients

Standard Error:	695000
Relative Standard Error:	11.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-284284/8	0.01	0.009882	1.0	99978.0	0.988217	Y
2	IC 410-284284/7	0.05	0.055225	1.0	101548.0	1.104502	Y
3	IC 410-284284/6	0.2	0.235945	1.0	102795.0	1.179727	Y
4	ICIS 410-284284/2	0.5	0.60682	1.0	123849.0	1.213639	Y
5	IC 410-284284/5	1.0	1.244129	1.0	106882.0	1.244129	Y
6	IC 410-284284/4	5.0	6.910386	1.0	112460.0	1.382077	Y
7	IC 410-284284/3	10.0	13.222868	1.0	113915.0	1.322287	Y



FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-96269-1 Analy Batch No.: 250058

SDG No.:

Instrument ID: HP23263 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2022 14:59 Calibration End Date: 04/29/2022 17:03 Calibration ID: 37561

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-250058/7	ND1406.D
Level 2	IC 410-250058/6	ND1405.D
Level 3	IC 410-250058/5	ND1404.D
Level 4	ICIS 410-250058/2	ND1401.D
Level 5	IC 410-250058/4	ND1403.D
Level 6	IC 410-250058/3	ND1402.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,4-Dioxane	0.8012 0.6120	0.6932	0.6667	0.7460	0.6468	Ave		0.6943				10.0		20.4			
N-Nitrosodimethylamine	0.7028 0.7908	0.7056	0.7393	0.8959	0.7862	Ave		0.7701				9.4		20.4			
Bis(2-chloroethyl)ether	0.4082 0.4500	0.5049	0.4891	0.5585	0.4729	Ave		0.4806				10.6		20.4			
Naphthalene	1.2902 1.0942	1.3342	1.2534	1.3677	1.1741	Ave		1.2523				8.2		20.4			
Quinoline	0.6978 0.6507	0.7371	0.7163	0.7799	0.6823	Ave		0.7107				6.3		20.4			
2-Methylnaphthalene	0.7729 0.6625	0.7970	0.7570	0.8211	0.7022	Ave		0.7521				7.9		20.4			
1-Methylnaphthalene	0.6925 0.6037	0.7246	0.7006	0.7290	0.6487	Ave		0.6832				7.1		20.4			
Dimethyl phthalate	1.2447 0.9683	1.1732	1.1317	1.1486	1.0587	Ave		1.1209				8.6		20.4			
Acenaphthylene	2.2567 2.1471	2.4486	2.3979	2.4188	2.1610	Ave		2.3050				5.8		20.4			
Acenaphthene	1.3578 1.3068	1.3871	1.3930	1.4827	1.3283	Ave		1.3760				4.5		20.4			
Dibenzofuran	2.0778 1.9273	2.2205	2.1916	2.2424	2.0328	Ave		2.1154				5.9		20.4			
Diethyl phthalate	1.2619 1.0197	1.1917	1.1331	1.1343	1.0763	Ave		1.1362				7.5		20.4			
Fluorene	1.4646 1.4765	1.5410	1.5200	1.6273	1.5314	Ave		1.5268				3.8		20.4			
N-Nitrosodiphenylamine	0.5178 0.4758	0.5621	0.5573	0.6145	0.5131	Ave		0.5401				8.9		20.4			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-96269-1 Analy Batch No.: 250058

SDG No.:

Instrument ID: HP23263 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2022 14:59 Calibration End Date: 04/29/2022 17:03 Calibration ID: 37561

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Hexachlorobenzene	0.3142 0.2689	0.3036	0.3088	0.3201	0.2816	Ave		0.2995				6.7		20.4			
Phenanthrene	1.3219 1.2335	1.3502	1.3152	1.4262	1.2879	Ave		1.3225				4.9		20.4			
Anthracene	1.2089 1.1988	1.2480	1.2282	1.3520	1.2457	Ave		1.2469				4.4		20.4			
Di-n-butyl phthalate	0.8720 0.9103	0.9019	0.9055	1.0149	0.9561	Ave		0.9268				5.5		20.4			
Fluoranthene	1.2354 1.2000	1.2776	1.2755	1.3749	1.2225	Ave		1.2643				4.9		20.4			
Pyrene	2.0986 1.7732	2.1043	2.0142	2.1980	1.9209	Ave		2.0182				7.5		20.4			
Butyl benzyl phthalate	0.4099 0.5667	0.4413	0.4869	0.6039	0.5989	Ave		0.5179				16.1		20.4			
Benzo[a]anthracene	1.3646 1.4506	1.3478	1.3780	1.6467	1.4737	Ave		1.4436				7.7		20.4			
Chrysene	1.5633 1.5476	1.6913	1.6468	1.7540	1.6552	Ave		1.6430				4.7		20.4			
Bis(2-ethylhexyl) phthalate	0.4989 0.7636	0.5523	0.6320	0.7855	0.7972	Ave		0.6716				19.2		20.4			
Di-n-octyl phthalate	0.8501 1.0799	0.8955	1.0226	1.2660	1.1929	Ave		1.0512				15.5		20.4			
Benzo[b]fluoranthene	1.1989 1.2287	1.2420	1.3130	1.4923	1.2909	Ave		1.2943				8.2		20.4			
Benzo[k]fluoranthene	1.5534 1.3634	1.7356	1.8039	1.9296	1.6292	Ave		1.6692				11.9		20.4			
Benzo[e]pyrene	1.3917 1.2226	1.4167	1.4872	1.5994	1.3721	Ave		1.4149				8.9		20.4			
Benzo[a]pyrene	1.2541 1.2402	1.3815	1.4233	1.5860	1.3651	Ave		1.3750				9.2		20.4			
Perylene	1.4862 1.2522	1.5163	1.6115	1.6569	1.4103	Ave		1.4889				9.8		20.4			
Indeno[1,2,3-cd]pyrene	0.8382 0.9496	0.8380	0.8780	1.0766	0.9630	Ave		0.9239				10.0		20.4			
Dibenz(a,h)anthracene	0.8981 1.0879	0.9353	1.0921	1.3354	1.1746	Ave		1.0872				14.7		20.4			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-96269-1 Analy Batch No.: 250058

SDG No.:

Instrument ID: HP23263 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2022 14:59 Calibration End Date: 04/29/2022 17:03 Calibration ID: 37561

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzo[g,h,i]perylene	1.1544 1.2201	1.2646	1.3480	1.5292	1.3432	Ave		1.3099				10.0		20.4			
1-Methylnaphthalene-d10 (Surr)	0.5645 0.4870	0.5730	0.5470	0.5807	0.5175	Ave		0.5450				6.6		20.4			
Fluoranthene-d10 (Surr)	0.9968 0.9459	1.0322	1.0318	1.0842	0.9827	Ave		1.0123				4.7		20.4			
Benzo(a)pyrene-d12 (Surr)	0.8368 0.8736	0.9275	0.9662	1.0949	0.9680	Ave		0.9445				9.5		20.4			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-96269-1 Analy Batch No.: 250058

SDG No.:

Instrument ID: HP23263 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2022 14:59 Calibration End Date: 04/29/2022 17:03 Calibration ID: 37561

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-250058/7	ND1406.D
Level 2	IC 410-250058/6	ND1405.D
Level 3	IC 410-250058/5	ND1404.D
Level 4	ICIS 410-250058/2	ND1401.D
Level 5	IC 410-250058/4	ND1403.D
Level 6	IC 410-250058/3	ND1402.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,4-Dioxane	DCBd 4	Ave	2596 467247	11598	22165	112536	197311	0.0100 2.50	0.0500	0.100	0.500	1.00
N-Nitrosodimethylamine	DCBd 4	Ave	2277 603759	11805	24578	135145	239837	0.0100 2.50	0.0500	0.100	0.500	1.00
Bis(2-chloroethyl)ether	NPT	Ave	4307 1154539	27184	54033	275872	487037	0.0100 2.50	0.0500	0.100	0.500	1.00
Naphthalene	NPT	Ave	13615 2807052	71834	138467	675631	1209249	0.0100 2.50	0.0500	0.100	0.500	1.00
Quinoline	NPT	Ave	7363 1669204	39689	79132	385267	702759	0.0100 2.50	0.0500	0.100	0.500	1.00
2-Methylnaphthalene	NPT	Ave	8156 1699691	42912	83629	405592	723216	0.0100 2.50	0.0500	0.100	0.500	1.00
1-Methylnaphthalene	NPT	Ave	7307 1548784	39012	77400	360116	668095	0.0100 2.50	0.0500	0.100	0.500	1.00
Dimethyl phthalate	ANT	Ave	150269 4226213	286965	558189	1304036	2399602	0.250 10.0	0.500	1.00	2.50	5.00
Acenaphthylene	ANT	Ave	10898 2342668	59891	118276	549209	979568	0.0100 2.50	0.0500	0.100	0.500	1.00
Acenaphthene	ANT	Ave	6557 1425856	33927	68709	336671	602123	0.0100 2.50	0.0500	0.100	0.500	1.00
Dibenzofuran	ANT	Ave	10034 2102902	54310	108101	509157	921438	0.0100 2.50	0.0500	0.100	0.500	1.00
Diethyl phthalate	ANT	Ave	152343 4450224	291473	558880	1287829	2439489	0.250 10.0	0.500	1.00	2.50	5.00
Fluorene	ANT	Ave	7073	37691	74972	369497	694170	0.0100	0.0500	0.100	0.500	1.00

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-96269-1 Analy Batch No.: 250058

SDG No.:

Instrument ID: HP23263 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2022 14:59 Calibration End Date: 04/29/2022 17:03 Calibration ID: 37561

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
			1610950					2.50				
N-Nitrosodiphenylamine	PHN	Ave	4015 857938	22394	45104	220617	373833	0.0100 2.50	0.0500	0.100	0.500	1.00
Hexachlorobenzene	PHN	Ave	2436 484934	12094	24995	114901	205148	0.0100 2.50	0.0500	0.100	0.500	1.00
Phenanthrene	PHN	Ave	10250 2224209	53793	106442	511995	938338	0.0100 2.50	0.0500	0.100	0.500	1.00
Anthracene	PHN	Ave	9374 2161687	49720	99400	485366	907594	0.0100 2.50	0.0500	0.100	0.500	1.00
Di-n-butyl phthalate	PHN	Ave	169026 6565565	359305	732840	1821681	3483118	0.250 10.0	0.500	1.00	2.50	5.00
Fluoranthene	PHN	Ave	9579 2163748	50900	103224	493603	890712	0.0100 2.50	0.0500	0.100	0.500	1.00
Pyrene	CRY	Ave	10149 2242583	54315	105490	535577	940635	0.0100 2.50	0.0500	0.100	0.500	1.00
Butyl benzyl phthalate	CRY	Ave	49560 2866869	113905	254980	735781	1466213	0.250 10.0	0.500	1.00	2.50	5.00
Benzo[a]anthracene	CRY	Ave	6599 1834512	34790	72172	401235	721642	0.0100 2.50	0.0500	0.100	0.500	1.00
Chrysene	CRY	Ave	7560 1957254	43656	86250	427391	810497	0.0100 2.50	0.0500	0.100	0.500	1.00
Bis(2-ethylhexyl) phthalate	CRY	Ave	60319 3863131	142548	331021	956950	1951961	0.250 10.0	0.500	1.00	2.50	5.00
Di-n-octyl phthalate	PRY	Ave	89732 6452179	205647	492530	1553443	3201758	0.250 10.0	0.500	1.00	2.50	5.00
Benzo[b]fluoranthene	PRY	Ave	5062 1835312	28522	63241	366210	692921	0.0100 2.50	0.0500	0.100	0.500	1.00
Benzo[k]fluoranthene	PRY	Ave	6559 2036413	39856	86886	473534	874512	0.0100 2.50	0.0500	0.100	0.500	1.00
Benzo[e]pyrene	PRY	Ave	5876 1826108	32534	71632	392505	736502	0.0100 2.50	0.0500	0.100	0.500	1.00
Benzo[a]pyrene	PRY	Ave	5295 1852479	31726	68552	389209	732761	0.0100 2.50	0.0500	0.100	0.500	1.00
Perylene	PRY	Ave	6275 1870363	34820	77618	406601	757021	0.0100 2.50	0.0500	0.100	0.500	1.00
Indeno[1,2,3-cd]pyrene	PRY	Ave	3539	19244	42287	264192	516944	0.0100	0.0500	0.100	0.500	1.00

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-96269-1 Analy Batch No.: 250058

SDG No.:

Instrument ID: HP23263 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2022 14:59 Calibration End Date: 04/29/2022 17:03 Calibration ID: 37561

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
			1418447					2.50				
Dibenz(a,h)anthracene	PRY	Ave	3792 1624951	21478	52603	327702	630501	0.0100 2.50	0.0500	0.100	0.500	1.00
Benzo[g,h,i]perylene	PRY	Ave	4874 1822501	29040	64929	375272	720990	0.0100 2.50	0.0500	0.100	0.500	1.00
1-Methylnaphthalene-d10 (Surr)	NPT	Ave	5957 1249398	30850	60431	286852	533020	0.0100 2.50	0.0500	0.100	0.500	1.00
Fluoranthene-d10 (Surr)	PHN	Ave	7729 1705697	41124	83507	389236	716009	0.0100 2.50	0.0500	0.100	0.500	1.00
Benzo(a)pyrene-d12 (Surr)	PRY	Ave	3533 1304845	21299	46536	268698	519617	0.0100 2.50	0.0500	0.100	0.500	1.00

Curve Type Legend
Ave = Average ISTD

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20220429-56077.b\ND1401.D
Lims ID: ICIS L4
Client ID:
Sample Type: ICIS Calib Level: 4
Inject. Date: 29-Apr-2022 14:59:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: ICIS
Misc. Info.: 410-0056077-002
Operator ID: jmg00346 Instrument ID: HP23263
Sublist: chrom-8270_SIM_HP23263*sub3

Method: \\chromfs\Lancaster\ChromData\HP23263\20220429-56077.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 29-Apr-2022 18:27:09 Calib Date: 29-Apr-2022 17:03:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20220429-56077.b\ND1406.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1632

First Level Reviewer: saadehw Date: 29-Apr-2022 15:29:06

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.716	1.716	0.000	95	112536	0.5000	0.5372	
2 N-Nitrosodimethylamine	74	2.018	2.018	0.000	87	135145	0.5000	0.5817	
3 Bis(2-chloroethyl)ether	93	4.244	4.244	0.000	95	275872	0.5000	0.5810	
* 4 1,4-Dichlorobenzene-d4	152	4.507	4.507	0.000	99	75428	0.2500	0.2500	
* 5 Naphthalene-d8	136	5.706	5.706	0.000	100	246992	0.2500	0.2500	
6 Naphthalene	128	5.719	5.719	0.000	100	675631	0.5000	0.5461	
7 Quinoline	129	6.031	6.031	0.000	92	385267	0.5000	0.5487	
8 2-Methylnaphthalene	142	6.369	6.369	0.000	96	405592	0.5000	0.5458	
$ 9 1-Methylnaphthalene-d10	152	6.429	6.429	0.000	99	286852	0.5000	0.5328	
10 1-Methylnaphthalene	142	6.469	6.469	0.000	96	360116	0.5000	0.5335	
11 Dimethyl phthalate	163	7.110	7.110	0.000	100	1304036	2.50	2.56	
12 Acenaphthylene	152	7.230	7.230	0.000	97	549209	0.5000	0.5247	
* 13 Acenaphthene-d10	164	7.361	7.361	0.000	90	113531	0.2500	0.2500	
14 Acenaphthene	154	7.391	7.391	0.000	96	336671	0.5000	0.5388	
15 Dibenzofuran	168	7.561	7.561	0.000	68	509157	0.5000	0.5300	
16 Diethyl phthalate	149	7.777	7.777	0.000	99	1287829	2.50	2.50	
17 Fluorene	166	7.877	7.877	0.000	98	369497	0.5000	0.5329	
18 N-Nitrosodiphenylamine	169	8.001	8.001	0.000	95	220617	0.5000	0.5689	
19 Hexachlorobenzene	284	8.402	8.402	0.000	88	114901	0.5000	0.5343	
* 20 Phenanthrene-d10	188	8.773	8.773	0.000	100	179500	0.2500	0.2500	
21 Phenanthrene	178	8.796	8.796	0.000	100	511995	0.5000	0.5392	
22 Anthracene	178	8.843	8.843	0.000	100	485366	0.5000	0.5421	
23 Di-n-butyl phthalate	149	9.343	9.343	0.000	100	1821681	2.50	2.74	
$ 24 Fluoranthene-d10 (Surr)	212	9.908	9.908	0.000	98	389236	0.5000	0.5355	
25 Fluoranthene	202	9.926	9.926	0.000	97	493603	0.5000	0.5437	
26 Pyrene	202	10.139	10.139	0.000	96	535577	0.5000	0.5445	
27 Butyl benzyl phthalate	149	10.815	10.815	0.000	100	735781	2.50	2.92	
28 Benzo[a]anthracene	228	11.414	11.414	0.000	99	401235	0.5000	0.5703	
* 29 Chrysene-d12	240	11.429	11.429	0.000	94	121833	0.2500	0.2500	
30 Chrysene	228	11.460	11.460	0.000	100	427391	0.5000	0.5338	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	11.490	11.490	0.000	99	956950	2.50	2.92	
32 Di-n-octyl phthalate	149	12.365	12.365	0.000	100	1553443	2.50	3.01	
33 Benzo[b]fluoranthene	252	12.833	12.833	0.000	100	366210	0.5000	0.5765	
34 Benzo[k]fluoranthene	252	12.871	12.871	0.000	100	473534	0.5000	0.5780	
35 Benzo[e]pyrene	252	13.216	13.216	0.000	100	392505	0.5000	0.5652	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.262	13.262	0.000	98	268698	0.5000	0.5796	
37 Benzo[a]pyrene	252	13.293	13.293	0.000	100	389209	0.5000	0.5767	
* 38 Perylene-d12	264	13.377	13.377	0.000	97	122702	0.2500	0.2500	
39 Perylene	252	13.415	13.415	0.000	100	406601	0.5000	0.5564	
40 Indeno[1,2,3-cd]pyrene	276	14.995	14.995	0.000	97	264192	0.5000	0.5826	
41 Dibenz(a,h)anthracene	278	15.044	15.044	0.000	98	327702	0.5000	0.6141	
42 Benzo[g,h,i]perylene	276	15.447	15.447	0.000	100	375272	0.5000	0.5837	

QC Flag Legend

Processing Flags

Reagents:

MSS_RVSIM_4_00019 Amount Added: 1.00 Units: mL

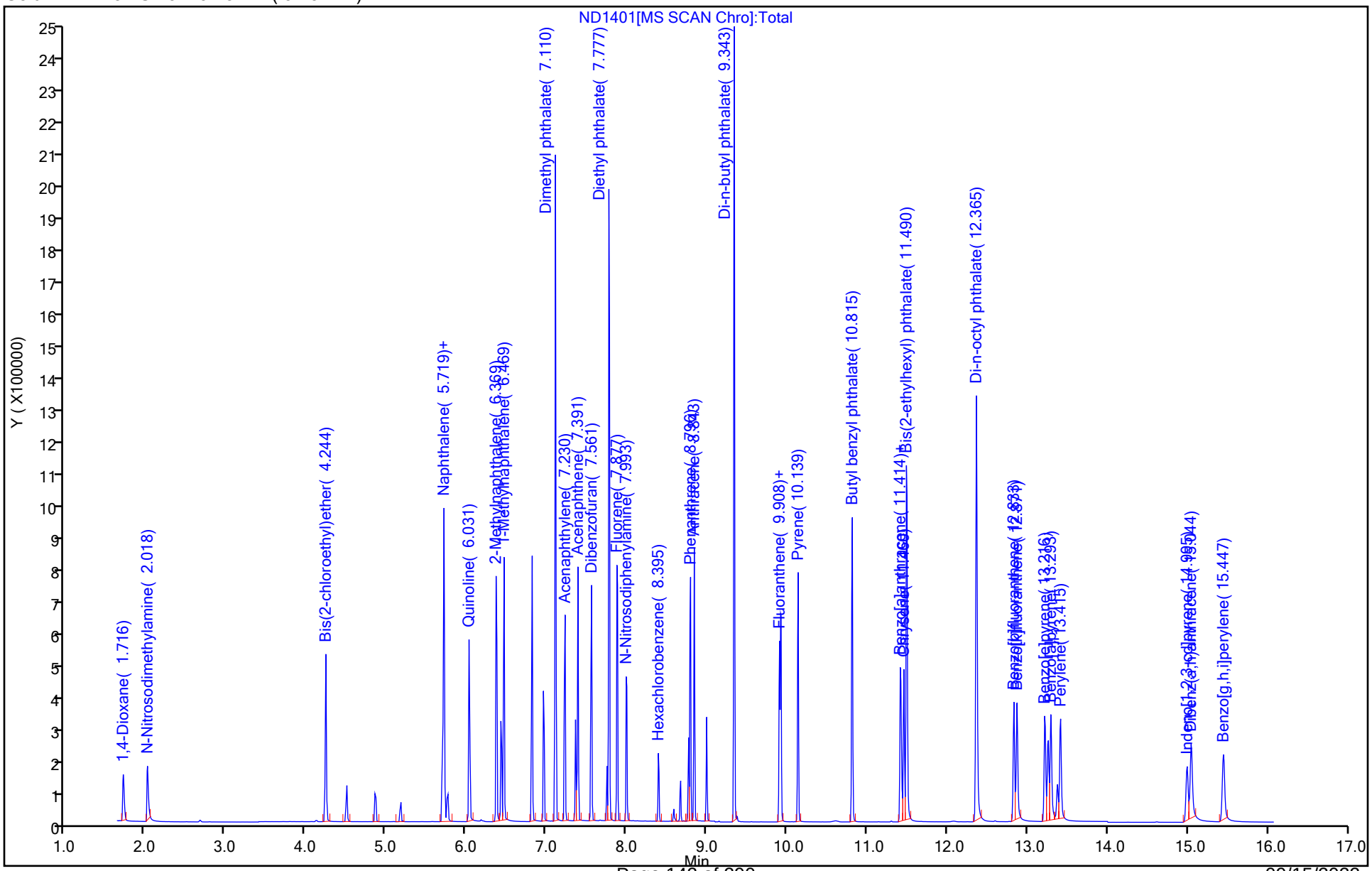
Report Date: 29-Apr-2022 18:27:09 Chrom Revision: 2.3 12-Apr-2022 20:29:44

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20220429-56077.b\ND1401.D

Injection Date:	29-Apr-2022 14:59:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	ICIS L4			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Resolution Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20220429-56077.b\ND1401.D				
Injection Date:	29-Apr-2022 14:59:30	Instrument ID:	HP23263		
Lims ID:	ICIS L4				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

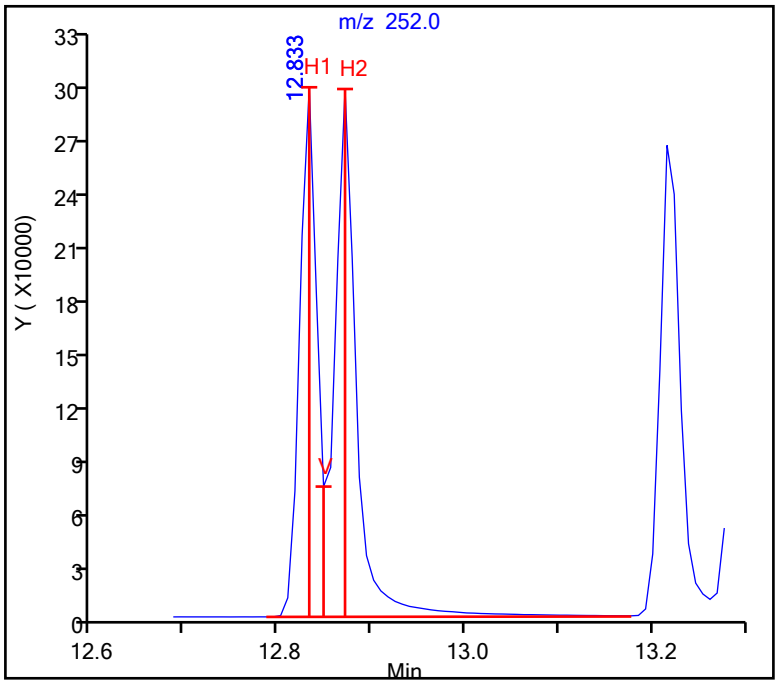
33 Benzo[b]fluoranthene - 34 Benzo[k]fluoranthene

SW-846 Method

Version D: %R = (V / ((H1 + H2)/2)) * 100

V (Valley Height) = 71826
H1(33 BenzoBFluor) = 291979
H2(34 BenzoKFluor) = 290997

Version D: %R = 24.6 <= 50.0
Passed



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20220429-56077.b\ND1402.D
Lims ID: IC L6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 29-Apr-2022 15:37:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L6
Misc. Info.: 410-0056077-003
Operator ID: whs02991 Instrument ID: HP23263
Sublist: chrom-8270_SIM_HP23263*sub3

Method: \\chromfs\Lancaster\ChromData\HP23263\20220429-56077.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 29-Apr-2022 18:27:12 Calib Date: 29-Apr-2022 17:03:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20220429-56077.b\ND1406.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1632

First Level Reviewer: saadehw Date: 29-Apr-2022 17:26:01

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.711	1.716	-0.005	96	467247	2.50	2.20	
2 N-Nitrosodimethylamine	74	2.009	2.018	-0.009	87	603759	2.50	2.57	
3 Bis(2-chloroethyl)ether	93	4.244	4.244	0.000	95	1154539	2.50	2.34	
* 4 1,4-Dichlorobenzene-d4	152	4.507	4.507	0.000	100	76345	0.2500	0.2500	
* 5 Naphthalene-d8	136	5.706	5.706	0.000	93	256538	0.2500	0.2500	
6 Naphthalene	128	5.719	5.719	0.000	100	2807052	2.50	2.18	
7 Quinoline	129	6.031	6.031	0.000	91	1669204	2.50	2.29	
8 2-Methylnaphthalene	142	6.379	6.369	0.010	95	1699691	2.50	2.20	
$ 9 1-Methylnaphthalene-d10	152	6.439	6.429	0.010	98	1249398	2.50	2.23	
10 1-Methylnaphthalene	142	6.469	6.469	0.000	97	1548784	2.50	2.21	
11 Dimethyl phthalate	163	7.110	7.110	0.000	98	4226213	10.0	8.64	
12 Acenaphthylene	152	7.230	7.230	0.000	95	2342668	2.50	2.33	
* 13 Acenaphthene-d10	164	7.361	7.361	-0.001	87	109109	0.2500	0.2500	
14 Acenaphthene	154	7.391	7.391	0.000	99	1425856	2.50	2.37	
15 Dibenzofuran	168	7.561	7.561	0.000	70	2102902	2.50	2.28	
16 Diethyl phthalate	149	7.785	7.777	0.008	96	4450224	10.0	8.97	
17 Fluorene	166	7.885	7.877	0.008	98	1610950	2.50	2.42	
18 N-Nitrosodiphenylamine	169	8.001	8.001	0.000	95	857938	2.50	2.20	
19 Hexachlorobenzene	284	8.402	8.402	0.000	90	484934	2.50	2.24	
* 20 Phenanthrene-d10	188	8.773	8.773	0.000	100	180318	0.2500	0.2500	
21 Phenanthrene	178	8.796	8.796	0.000	100	2224209	2.50	2.33	
22 Anthracene	178	8.842	8.843	-0.001	99	2161687	2.50	2.40	
23 Di-n-butyl phthalate	149	9.343	9.343	0.000	100	6565565	10.0	9.82	
$ 24 Fluoranthene-d10 (Surr)	212	9.907	9.908	-0.001	99	1705697	2.50	2.34	
25 Fluoranthene	202	9.926	9.926	0.000	98	2163748	2.50	2.37	
26 Pyrene	202	10.139	10.139	0.000	97	2242583	2.50	2.20	
27 Butyl benzyl phthalate	149	10.815	10.815	0.000	100	2866869	10.0	10.9	
28 Benzo[a]anthracene	228	11.414	11.414	0.000	81	1834512	2.50	2.51	
* 29 Chrysene-d12	240	11.429	11.429	0.000	35	126470	0.2500	0.2500	
30 Chrysene	228	11.460	11.460	0.000	100	1957254	2.50	2.35	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	11.490	11.490	0.000	99	3863131	10.0	11.4	
32 Di-n-octyl phthalate	149	12.365	12.365	0.000	100	6452179	10.0	10.3	
33 Benzo[b]fluoranthene	252	12.832	12.833	-0.001	99	1835312	2.50	2.37	
34 Benzo[k]fluoranthene	252	12.871	12.871	0.000	99	2036413	2.50	2.04	
35 Benzo[e]pyrene	252	13.224	13.216	0.008	99	1826108	2.50	2.16	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.262	13.262	0.000	99	1304845	2.50	2.31	
37 Benzo[a]pyrene	252	13.300	13.293	0.007	99	1852479	2.50	2.25	
* 38 Perylene-d12	264	13.377	13.377	0.000	99	149367	0.2500	0.2500	
39 Perylene	252	13.415	13.415	0.000	99	1870363	2.50	2.10	
40 Indeno[1,2,3-cd]pyrene	276	14.995	14.995	0.000	98	1418447	2.50	2.57	
41 Dibenz(a,h)anthracene	278	15.051	15.044	0.007	98	1624951	2.50	2.50	
42 Benzo[g,h,i]perylene	276	15.454	15.447	0.007	100	1822501	2.50	2.33	

QC Flag Legend

Processing Flags

Reagents:

MSS_RVSIM_6_00014 Amount Added: 1.00 Units: mL

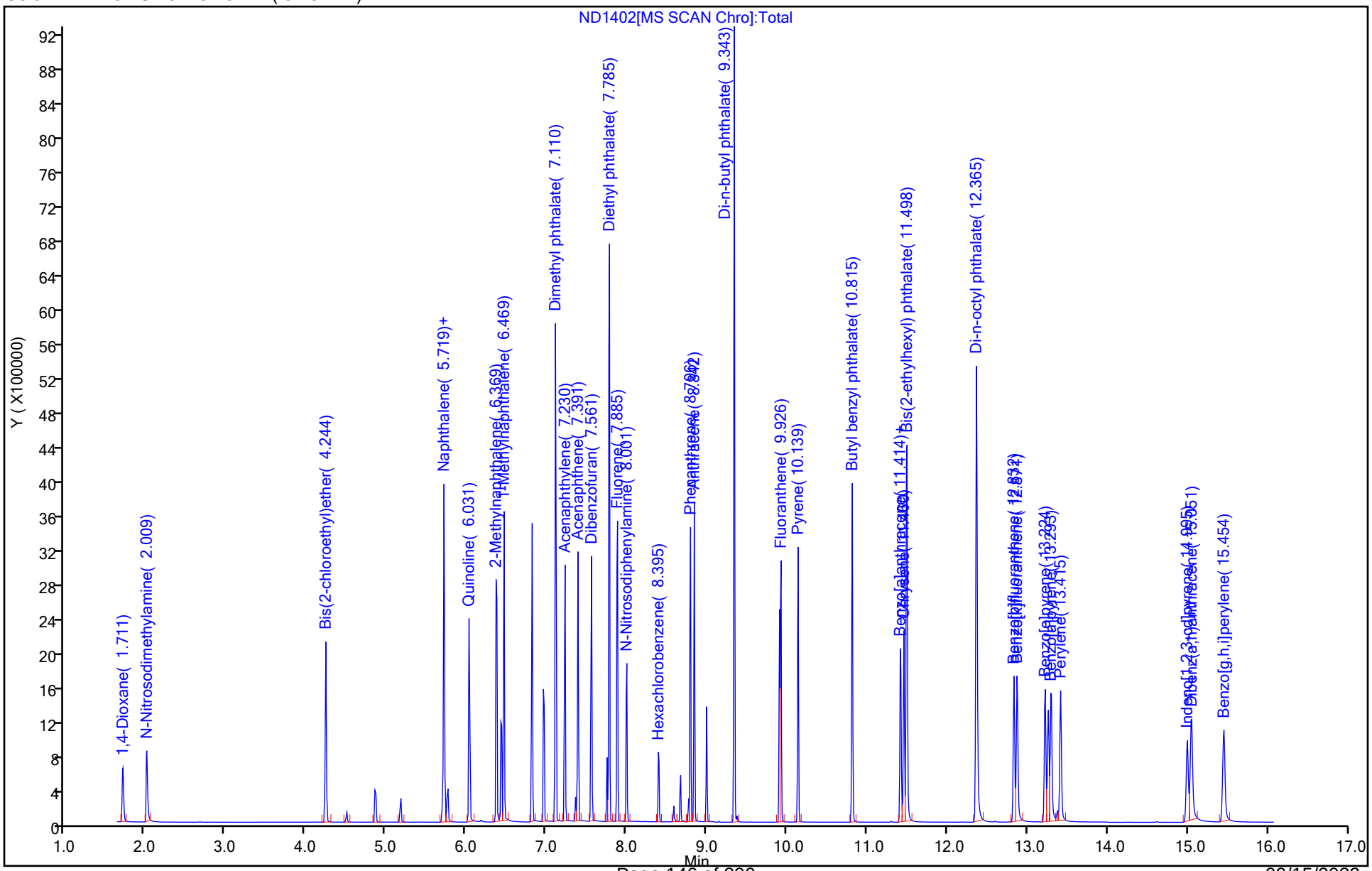
Report Date: 29-Apr-2022 18:27:12 Chrom Revision: 2.3 12-Apr-2022 20:29:44

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20220429-56077.b\ND1402.D

Injection Date:	29-Apr-2022 15:37:30	Instrument ID:	HP23263	Operator ID:	whs02991
Lims ID:	IC L6			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20220429-56077.b\ND1403.D
Lims ID: IC L5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 29-Apr-2022 15:59:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L5
Misc. Info.: 410-0056077-004
Operator ID: whs02991 Instrument ID: HP23263
Sublist: chrom-8270_SIM_HP23263*sub3

Method: \\chromfs\Lancaster\ChromData\HP23263\20220429-56077.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 29-Apr-2022 18:27:14 Calib Date: 29-Apr-2022 17:03:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20220429-56077.b\ND1406.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1632

First Level Reviewer: saadehw Date: 29-Apr-2022 17:27:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.716	1.716	0.000	95	197311	1.00	0.9315	
2 N-Nitrosodimethylamine	74	2.018	2.018	0.000	87	239837	1.00	1.02	
3 Bis(2-chloroethyl)ether	93	4.244	4.244	0.000	96	487037	1.00	0.9839	
* 4 1,4-Dichlorobenzene-d4	152	4.507	4.507	0.000	100	76269	0.2500	0.2500	
* 5 Naphthalene-d8	136	5.706	5.706	0.000	100	257491	0.2500	0.2500	
6 Naphthalene	128	5.719	5.719	0.000	100	1209249	1.00	0.9375	
7 Quinoline	129	6.031	6.031	0.000	91	702759	1.00	0.9601	
8 2-Methylnaphthalene	142	6.369	6.369	0.000	96	723216	1.00	0.9336	
$ 9 1-Methylnaphthalene-d10	152	6.429	6.429	0.000	98	533020	1.00	0.9496	
10 1-Methylnaphthalene	142	6.469	6.469	0.000	97	668095	1.00	0.9495	
11 Dimethyl phthalate	163	7.110	7.110	0.000	100	2399602	5.00	4.72	
12 Acenaphthylene	152	7.230	7.230	0.000	94	979568	1.00	0.9375	
* 13 Acenaphthene-d10	164	7.360	7.361	-0.001	89	113324	0.2500	0.2500	
14 Acenaphthene	154	7.391	7.391	-0.001	98	602123	1.00	0.9654	
15 Dibenzofuran	168	7.561	7.561	0.000	68	921438	1.00	0.9609	
16 Diethyl phthalate	149	7.777	7.777	0.000	99	2439489	5.00	4.74	
17 Fluorene	166	7.877	7.877	0.000	98	694170	1.00	1.00	
18 N-Nitrosodiphenylamine	169	8.001	8.001	0.000	95	373833	1.00	0.9500	
19 Hexachlorobenzene	284	8.402	8.402	0.000	87	205148	1.00	0.9401	
* 20 Phenanthrene-d10	188	8.773	8.773	0.000	100	182146	0.2500	0.2500	
21 Phenanthrene	178	8.796	8.796	0.000	100	938338	1.00	0.9738	
22 Anthracene	178	8.842	8.843	-0.001	100	907594	1.00	1.00	
23 Di-n-butyl phthalate	149	9.343	9.343	0.000	100	3483118	5.00	5.16	
$ 24 Fluoranthene-d10 (Surr)	212	9.907	9.908	-0.001	98	716009	1.00	0.9708	
25 Fluoranthene	202	9.920	9.926	-0.006	100	890712	1.00	0.9669	
26 Pyrene	202	10.139	10.139	0.000	96	940635	1.00	0.9518	
27 Butyl benzyl phthalate	149	10.815	10.815	0.000	100	1466213	5.00	5.78	
28 Benzo[a]anthracene	228	11.414	11.414	0.000	98	721642	1.00	1.02	
* 29 Chrysene-d12	240	11.429	11.429	0.000	81	122419	0.2500	0.2500	
30 Chrysene	228	11.460	11.460	0.000	100	810497	1.00	1.01	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	11.490	11.490	0.000	99	1951961	5.00	5.94	
32 Di-n-octyl phthalate	149	12.365	12.365	0.000	100	3201758	5.00	5.67	
33 Benzo[b]fluoranthene	252	12.825	12.833	-0.008	100	692921	1.00	1.00	
34 Benzo[k]fluoranthene	252	12.871	12.871	0.000	100	874512	1.00	0.9760	
35 Benzo[e]pyrene	252	13.216	13.216	0.000	100	736502	1.00	0.9697	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.262	13.262	0.000	97	519617	1.00	1.02	
37 Benzo[a]pyrene	252	13.293	13.293	0.000	100	732761	1.00	0.99	
* 38 Perylene-d12	264	13.377	13.377	0.000	96	134197	0.2500	0.2500	
39 Perylene	252	13.408	13.415	-0.007	100	757021	1.00	0.9472	
40 Indeno[1,2,3-cd]pyrene	276	14.988	14.995	-0.007	98	516944	1.00	1.04	
41 Dibenz(a,h)anthracene	278	15.044	15.044	0.000	98	630501	1.00	1.08	
42 Benzo[g,h,i]perylene	276	15.447	15.447	0.000	99	720990	1.00	1.03	

QC Flag Legend

Processing Flags

Reagents:

MSS_RVSIM_5_00016 Amount Added: 1.00 Units: mL

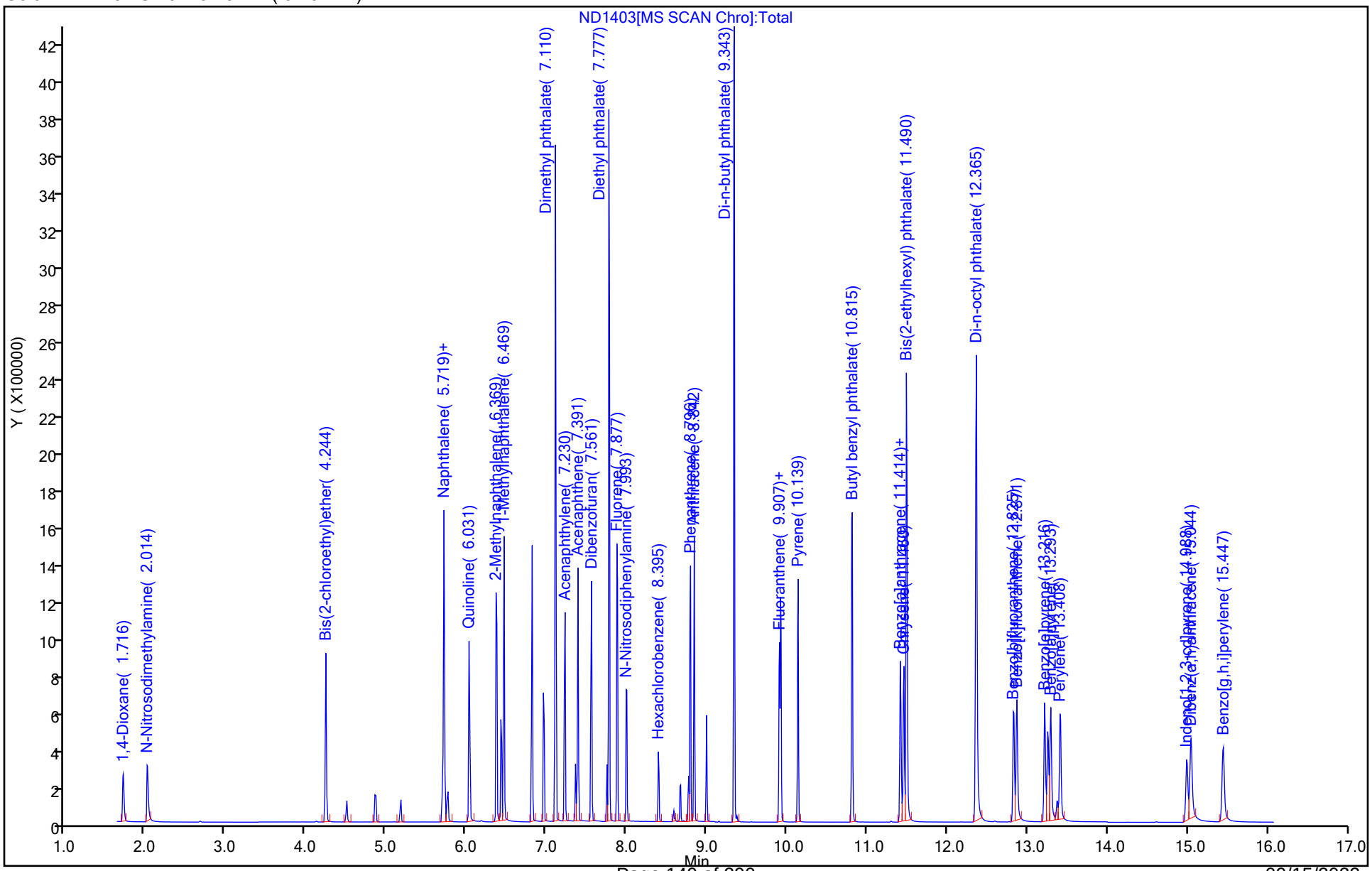
Report Date: 29-Apr-2022 18:27:15 Chrom Revision: 2.3 12-Apr-2022 20:29:44

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20220429-56077.b\ND1403.D

Injection Date:	29-Apr-2022 15:59:30	Instrument ID:	HP23263	Operator ID:	whs02991
Lims ID:	IC L5			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20220429-56077.b\ND1404.D
Lims ID: IC L3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 29-Apr-2022 16:20:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L3
Misc. Info.: 410-0056077-005
Operator ID: whs02991 Instrument ID: HP23263
Sublist: chrom-8270_SIM_HP23263*sub3

Method: \\chromfs\Lancaster\ChromData\HP23263\20220429-56077.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 29-Apr-2022 18:27:17 Calib Date: 29-Apr-2022 17:03:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20220429-56077.b\ND1406.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1632

First Level Reviewer: saadehw Date: 29-Apr-2022 17:28:23

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.729	1.716	0.013	97	22165	0.1000	0.0960	
2 N-Nitrosodimethylamine	74	2.035	2.018	0.017	83	24578	0.1000	0.0960	
3 Bis(2-chloroethyl)ether	93	4.244	4.244	0.000	98	54033	0.1000	0.1018	
* 4 1,4-Dichlorobenzene-d4	152	4.507	4.507	0.000	98	83111	0.2500	0.2500	
* 5 Naphthalene-d8	136	5.706	5.706	0.000	100	276177	0.2500	0.2500	
6 Naphthalene	128	5.719	5.719	0.000	100	138467	0.1000	0.1001	
7 Quinoline	129	6.044	6.031	0.013	95	79132	0.1000	0.1008	
8 2-Methylnaphthalene	142	6.379	6.369	0.010	96	83629	0.1000	0.1007	
$ 9 1-Methylnaphthalene-d10	152	6.439	6.429	0.010	98	60431	0.1000	0.1004	
10 1-Methylnaphthalene	142	6.469	6.469	0.000	98	77400	0.1000	0.1026	
11 Dimethyl phthalate	163	7.110	7.110	0.000	98	558189	1.00	1.01	
12 Acenaphthylene	152	7.230	7.230	0.000	95	118276	0.1000	0.1040	
* 13 Acenaphthene-d10	164	7.360	7.361	-0.001	89	123313	0.2500	0.2500	
14 Acenaphthene	154	7.391	7.391	-0.001	96	68709	0.1000	0.1012	
15 Dibenzofuran	168	7.561	7.561	0.000	68	108101	0.1000	0.1036	
16 Diethyl phthalate	149	7.777	7.777	0.000	99	558880	1.00	1.00	
17 Fluorene	166	7.877	7.877	0.000	96	74972	0.1000	0.0996	
18 N-Nitrosodiphenylamine	169	8.001	8.001	0.000	96	45104	0.1000	0.1032	
19 Hexachlorobenzene	284	8.402	8.402	0.000	87	24995	0.1000	0.1031	
* 20 Phenanthrene-d10	188	8.773	8.773	0.000	100	202324	0.2500	0.2500	
21 Phenanthrene	178	8.796	8.796	0.000	99	106442	0.1000	0.0995	
22 Anthracene	178	8.842	8.843	-0.001	100	99400	0.1000	0.0985	
23 Di-n-butyl phthalate	149	9.337	9.343	-0.006	100	732840	1.00	0.9771	
$ 24 Fluoranthene-d10 (Surr)	212	9.907	9.908	-0.001	97	83507	0.1000	0.1019	
25 Fluoranthene	202	9.920	9.926	-0.006	100	103224	0.1000	0.1009	
26 Pyrene	202	10.139	10.139	0.000	96	105490	0.1000	0.0998	
27 Butyl benzyl phthalate	149	10.808	10.815	-0.007	100	254980	1.00	0.9400	
28 Benzo[a]anthracene	228	11.414	11.414	0.000	100	72172	0.1000	0.0955	
* 29 Chrysene-d12	240	11.429	11.429	0.000	86	130933	0.2500	0.2500	
30 Chrysene	228	11.460	11.460	0.000	100	86250	0.1000	0.1002	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	11.490	11.490	0.000	99	331021	1.00	0.9411	
32 Di-n-octyl phthalate	149	12.365	12.365	0.000	100	492530	1.00	0.9728	
33 Benzo[b]fluoranthene	252	12.832	12.833	-0.001	100	63241	0.1000	0.1014	
34 Benzo[k]fluoranthene	252	12.871	12.871	0.000	100	86886	0.1000	0.1081	
35 Benzo[e]pyrene	252	13.216	13.216	0.000	100	71632	0.1000	0.1051	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.254	13.262	-0.008	99	46536	0.1000	0.1023	
37 Benzo[a]pyrene	252	13.293	13.293	0.000	100	68552	0.1000	0.1035	
* 38 Perylene-d12	264	13.377	13.377	0.000	96	120414	0.2500	0.2500	
39 Perylene	252	13.408	13.415	-0.007	100	77618	0.1000	0.1082	
40 Indeno[1,2,3-cd]pyrene	276	14.988	14.995	-0.007	97	42287	0.1000	0.0950	
41 Dibenz(a,h)anthracene	278	15.044	15.044	0.000	97	52603	0.1000	0.1005	
42 Benzo[g,h,i]perylene	276	15.447	15.447	0.000	98	64929	0.1000	0.1029	

QC Flag Legend

Processing Flags

Reagents:

MSS_RVSIM_3_00015 Amount Added: 1.00 Units: mL

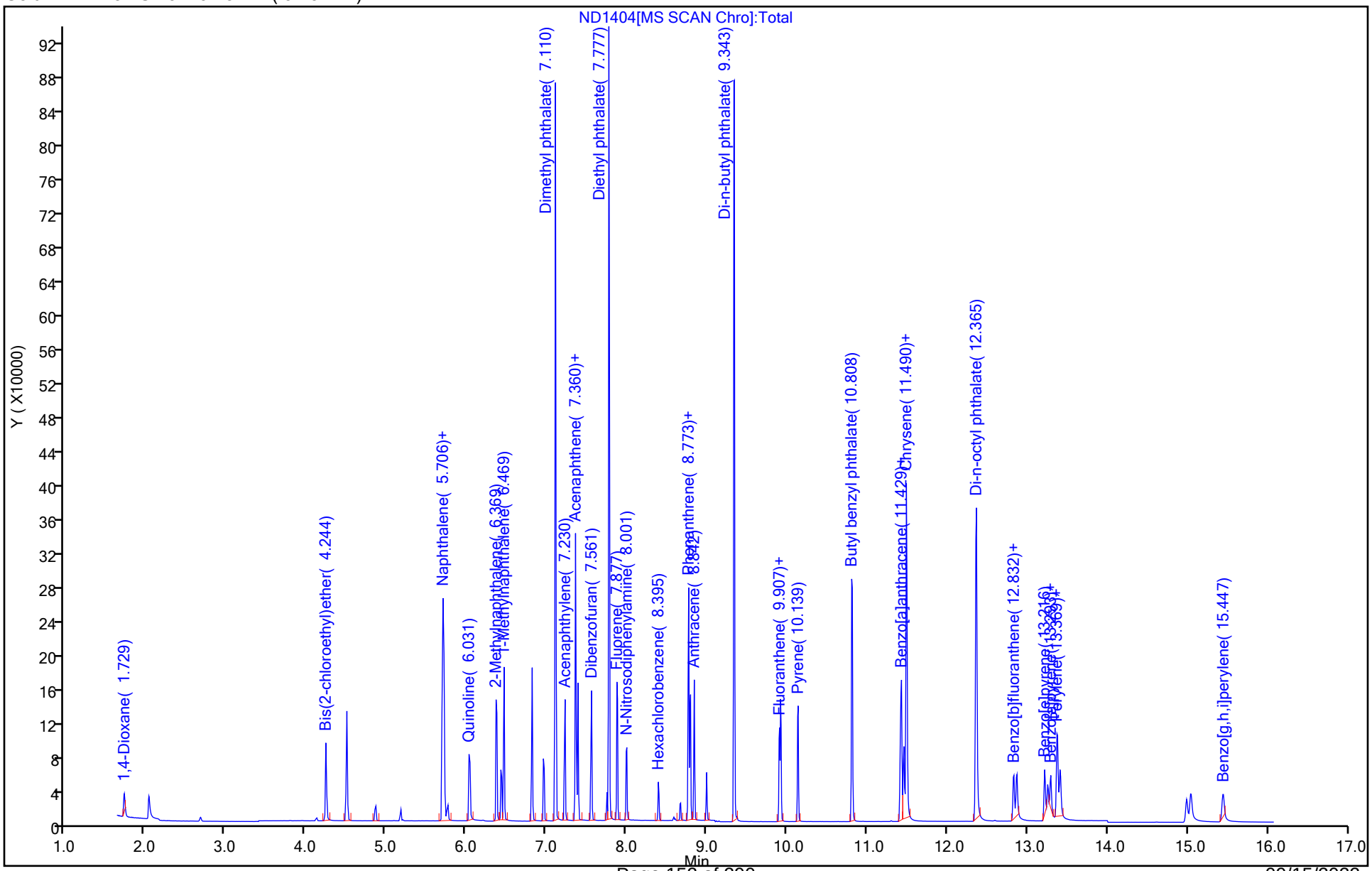
Report Date: 29-Apr-2022 18:27:18 Chrom Revision: 2.3 12-Apr-2022 20:29:44

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20220429-56077.b\ND1404.D

Injection Date:	29-Apr-2022 16:20:30	Instrument ID:	HP23263	Operator ID:	whs02991
Lims ID:	IC L3			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20220429-56077.b\ND1405.D
Lims ID: IC L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 29-Apr-2022 16:42:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L2
Misc. Info.: 410-0056077-006
Operator ID: whs02991 Instrument ID: HP23263
Sublist: chrom-8270_SIM_HP23263*sub3

Method: \\chromfs\Lancaster\ChromData\HP23263\20220429-56077.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 29-Apr-2022 18:27:20 Calib Date: 29-Apr-2022 17:03:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20220429-56077.b\ND1406.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1632

First Level Reviewer: saadehw Date: 29-Apr-2022 17:28:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.729	1.716	0.013	97	11598	0.0500	0.0499	
2 N-Nitrosodimethylamine	74	2.040	2.018	0.022	85	11805	0.0500	0.0458	
3 Bis(2-chloroethyl)ether	93	4.244	4.244	0.000	99	27184	0.0500	0.0525	
* 4 1,4-Dichlorobenzene-d4	152	4.507	4.507	0.000	99	83654	0.2500	0.2500	
* 5 Naphthalene-d8	136	5.706	5.706	0.000	100	269208	0.2500	0.2500	
6 Naphthalene	128	5.719	5.719	0.000	100	71834	0.0500	0.0533	
7 Quinoline	129	6.044	6.031	0.013	97	39689	0.0500	0.0519	
8 2-Methylnaphthalene	142	6.377	6.369	0.008	97	42912	0.0500	0.0530	
$ 9 1-Methylnaphthalene-d10	152	6.437	6.429	0.008	98	30850	0.0500	0.0526	
10 1-Methylnaphthalene	142	6.467	6.469	-0.002	97	39012	0.0500	0.0530	
11 Dimethyl phthalate	163	7.108	7.110	-0.002	99	286965	0.5000	0.5234	
12 Acenaphthylene	152	7.228	7.230	-0.002	98	59891	0.0500	0.0531	
* 13 Acenaphthene-d10	164	7.368	7.361	0.007	92	122295	0.2500	0.2500	
14 Acenaphthene	154	7.388	7.391	-0.003	95	33927	0.0500	0.0504	
15 Dibenzofuran	168	7.558	7.561	-0.003	74	54310	0.0500	0.0525	
16 Diethyl phthalate	149	7.782	7.777	0.005	97	291473	0.5000	0.5244	
17 Fluorene	166	7.882	7.877	0.005	100	37691	0.0500	0.0505	
18 N-Nitrosodiphenylamine	169	7.998	8.001	-0.003	99	22394	0.0500	0.0520	
19 Hexachlorobenzene	284	8.400	8.402	-0.002	91	12094	0.0500	0.0507	
* 20 Phenanthrene-d10	188	8.771	8.773	-0.002	100	199202	0.2500	0.2500	
21 Phenanthrene	178	8.794	8.796	-0.002	100	53793	0.0500	0.0510	
22 Anthracene	178	8.840	8.843	-0.003	100	49720	0.0500	0.0500	
23 Di-n-butyl phthalate	149	9.341	9.343	-0.002	100	359305	0.5000	0.4866	
$ 24 Fluoranthene-d10 (Surr)	212	9.905	9.908	-0.003	99	41124	0.0500	0.0510	
25 Fluoranthene	202	9.924	9.926	-0.002	98	50900	0.0500	0.0505	
26 Pyrene	202	10.137	10.139	-0.002	98	54315	0.0500	0.0521	
27 Butyl benzyl phthalate	149	10.813	10.815	-0.002	100	113905	0.5000	0.4260	
28 Benzo[a]anthracene	228	11.411	11.414	-0.003	76	34790	0.0500	0.0467	
* 29 Chrysene-d12	240	11.426	11.429	-0.003	84	129059	0.2500	0.2500	
30 Chrysene	228	11.457	11.460	-0.003	100	43656	0.0500	0.0515	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	11.488	11.490	-0.002	99	142548	0.5000	0.4112	
32 Di-n-octyl phthalate	149	12.362	12.365	-0.003	100	205647	0.5000	0.4260	
33 Benzo[b]fluoranthene	252	12.830	12.833	-0.003	100	28522	0.0500	0.0480	
34 Benzo[k]fluoranthene	252	12.868	12.871	-0.003	100	39856	0.0500	0.0520	
35 Benzo[e]pyrene	252	13.213	13.216	-0.003	100	32534	0.0500	0.0501	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.260	13.262	-0.002	97	21299	0.0500	0.0491	
37 Benzo[a]pyrene	252	13.290	13.293	-0.003	100	31726	0.0500	0.0502	
* 38 Perylene-d12	264	13.375	13.377	-0.002	97	114821	0.2500	0.2500	
39 Perylene	252	13.413	13.415	-0.002	100	34820	0.0500	0.0509	
40 Indeno[1,2,3-cd]pyrene	276	14.986	14.995	-0.009	98	19244	0.0500	0.0454	
41 Dibenz(a,h)anthracene	278	15.042	15.044	-0.002	97	21478	0.0500	0.0430	
42 Benzo[g,h,i]perylene	276	15.445	15.447	-0.002	99	29040	0.0500	0.0483	

QC Flag Legend

Processing Flags

Reagents:

MSS_RVSIM_2_00017 Amount Added: 1.00 Units: mL

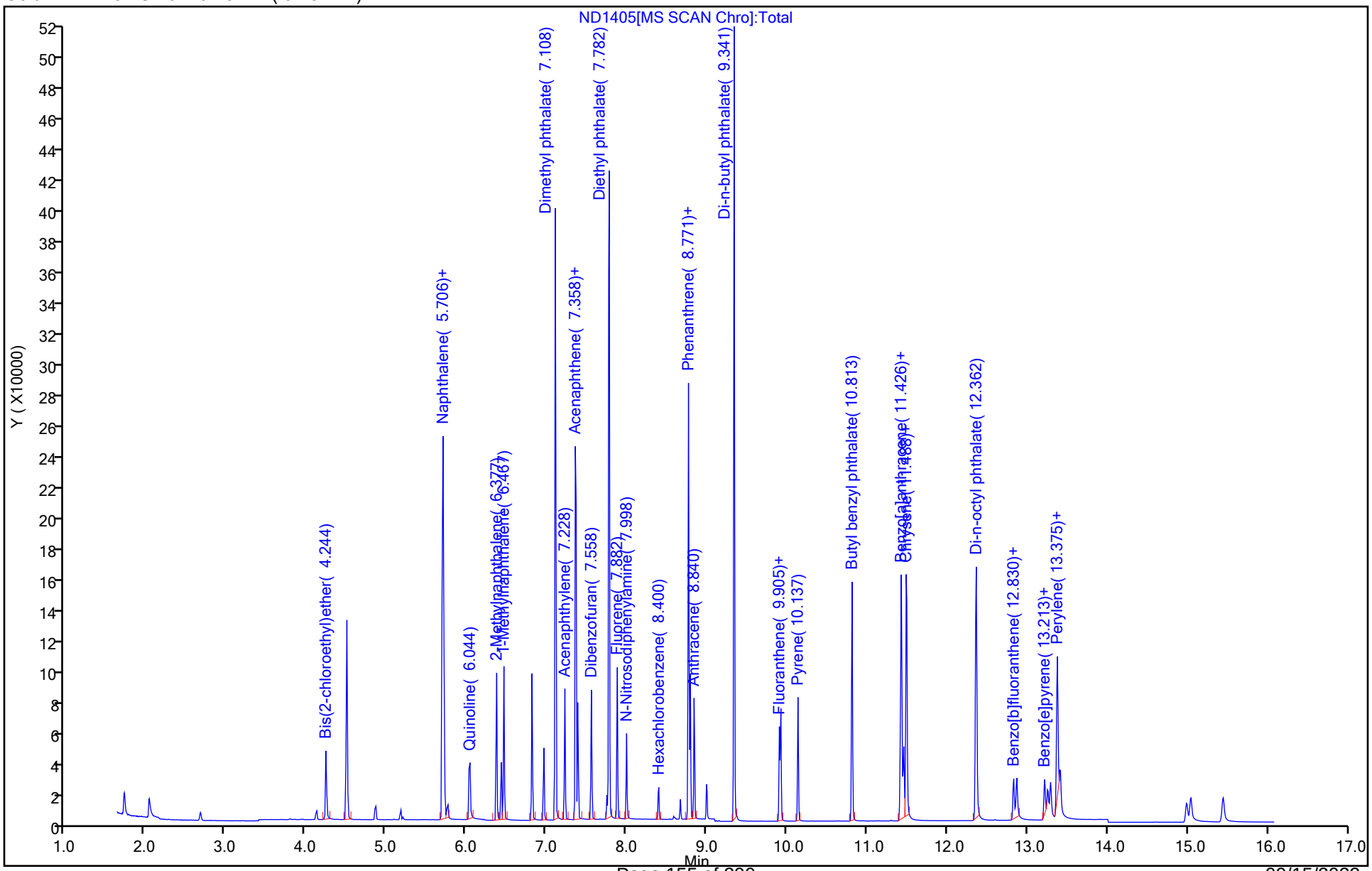
Report Date: 29-Apr-2022 18:27:20 Chrom Revision: 2.3 12-Apr-2022 20:29:44

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20220429-56077.b\ND1405.D

Injection Date:	29-Apr-2022 16:42:30	Instrument ID:	HP23263	Operator ID:	whs02991
Lims ID:	IC L2			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20220429-56077.b\ND1406.D
Lims ID: IC L1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 29-Apr-2022 17:03:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L1
Misc. Info.: 410-0056077-007
Operator ID: whs02991 Instrument ID: HP23263
Sublist: chrom-8270_SIM_HP23263*sub3

Method: \\chromfs\Lancaster\ChromData\HP23263\20220429-56077.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 29-Apr-2022 18:27:23 Calib Date: 29-Apr-2022 17:03:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20220429-56077.b\ND1406.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1632

First Level Reviewer: saadehw Date: 29-Apr-2022 17:30:13

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.733	1.733	0.000	99	2596	0.0100	0.0115	M
2 N-Nitrosodimethylamine	74	2.057	2.057	0.000	83	2277	0.0100	0.009126	M
3 Bis(2-chloroethyl)ether	93	4.257	4.257	0.000	90	4307	0.0100	0.008493	
* 4 1,4-Dichlorobenzene-d4	152	4.507	4.507	0.000	98	81001	0.2500	0.2500	
* 5 Naphthalene-d8	136	5.706	5.706	0.000	100	263807	0.2500	0.2500	
6 Naphthalene	128	5.719	5.719	0.000	99	13615	0.0100	0.0103	
7 Quinoline	129	6.044	6.044	0.000	99	7363	0.0100	0.009818	
8 2-Methylnaphthalene	142	6.379	6.379	0.000	96	8156	0.0100	0.0103	
$ 9 1-Methylnaphthalene-d10	152	6.439	6.439	0.000	98	5957	0.0100	0.0104	
10 1-Methylnaphthalene	142	6.469	6.469	0.000	100	7307	0.0100	0.0101	
11 Dimethyl phthalate	163	7.110	7.110	0.000	100	150269	0.2500	0.2776	
12 Acenaphthylene	152	7.230	7.230	0.000	98	10898	0.0100	0.009790	
* 13 Acenaphthene-d10	164	7.360	7.360	0.000	89	120729	0.2500	0.2500	
14 Acenaphthene	154	7.390	7.390	0.000	67	6557	0.0100	0.009868	
15 Dibenzofuran	168	7.561	7.561	0.000	71	10034	0.0100	0.009822	
16 Diethyl phthalate	149	7.777	7.777	0.000	99	152343	0.2500	0.2777	
17 Fluorene	166	7.885	7.885	0.000	99	7073	0.0100	0.009593	
18 N-Nitrosodiphenylamine	169	8.001	8.001	0.000	98	4015	0.0100	0.009587	
19 Hexachlorobenzene	284	8.402	8.402	0.000	87	2436	0.0100	0.0105	
* 20 Phenanthrene-d10	188	8.773	8.773	0.000	100	193847	0.2500	0.2500	
21 Phenanthrene	178	8.796	8.796	0.000	100	10250	0.0100	0.0100	
22 Anthracene	178	8.842	8.842	0.000	100	9374	0.0100	0.009695	
23 Di-n-butyl phthalate	149	9.337	9.337	0.000	100	169026	0.2500	0.2352	
$ 24 Fluoranthene-d10 (Surr)	212	9.907	9.907	0.000	98	7729	0.0100	0.009847	
25 Fluoranthene	202	9.926	9.926	0.000	94	9579	0.0100	0.009771	
26 Pyrene	202	10.139	10.139	0.000	97	10149	0.0100	0.0104	
27 Butyl benzyl phthalate	149	10.808	10.808	0.000	100	49560	0.2500	0.1979	
28 Benzo[a]anthracene	228	11.414	11.414	0.000	89	6599	0.0100	0.009453	
* 29 Chrysene-d12	240	11.429	11.429	0.000	82	120900	0.2500	0.2500	
30 Chrysene	228	11.460	11.460	0.000	100	7560	0.0100	0.009515	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	11.490	11.490	0.000	99	60319	0.2500	0.1857	
32 Di-n-octyl phthalate	149	12.357	12.357	0.000	100	89732	0.2500	0.2022	
33 Benzo[b]fluoranthene	252	12.832	12.832	0.000	100	5062	0.0100	0.009263	
34 Benzo[k]fluoranthene	252	12.871	12.871	0.000	99	6559	0.0100	0.009307	
35 Benzo[e]pyrene	252	13.216	13.216	0.000	100	5876	0.0100	0.009836	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.254	13.254	0.000	100	3533	0.0100	0.008859	
37 Benzo[a]pyrene	252	13.293	13.293	0.000	100	5295	0.0100	0.009120	
* 38 Perylene-d12	264	13.377	13.377	0.000	96	105556	0.2500	0.2500	
39 Perylene	252	13.408	13.408	0.000	100	6275	0.0100	0.0100	
40 Indeno[1,2,3-cd]pyrene	276	14.988	14.988	0.000	98	3539	0.0100	0.009072	M
41 Dibenz(a,h)anthracene	278	15.044	15.044	0.000	97	3792	0.0100	0.008261	M
42 Benzo[g,h,i]perylene	276	15.440	15.440	0.000	99	4874	0.0100	0.008813	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_1_00016 Amount Added: 1.00 Units: mL

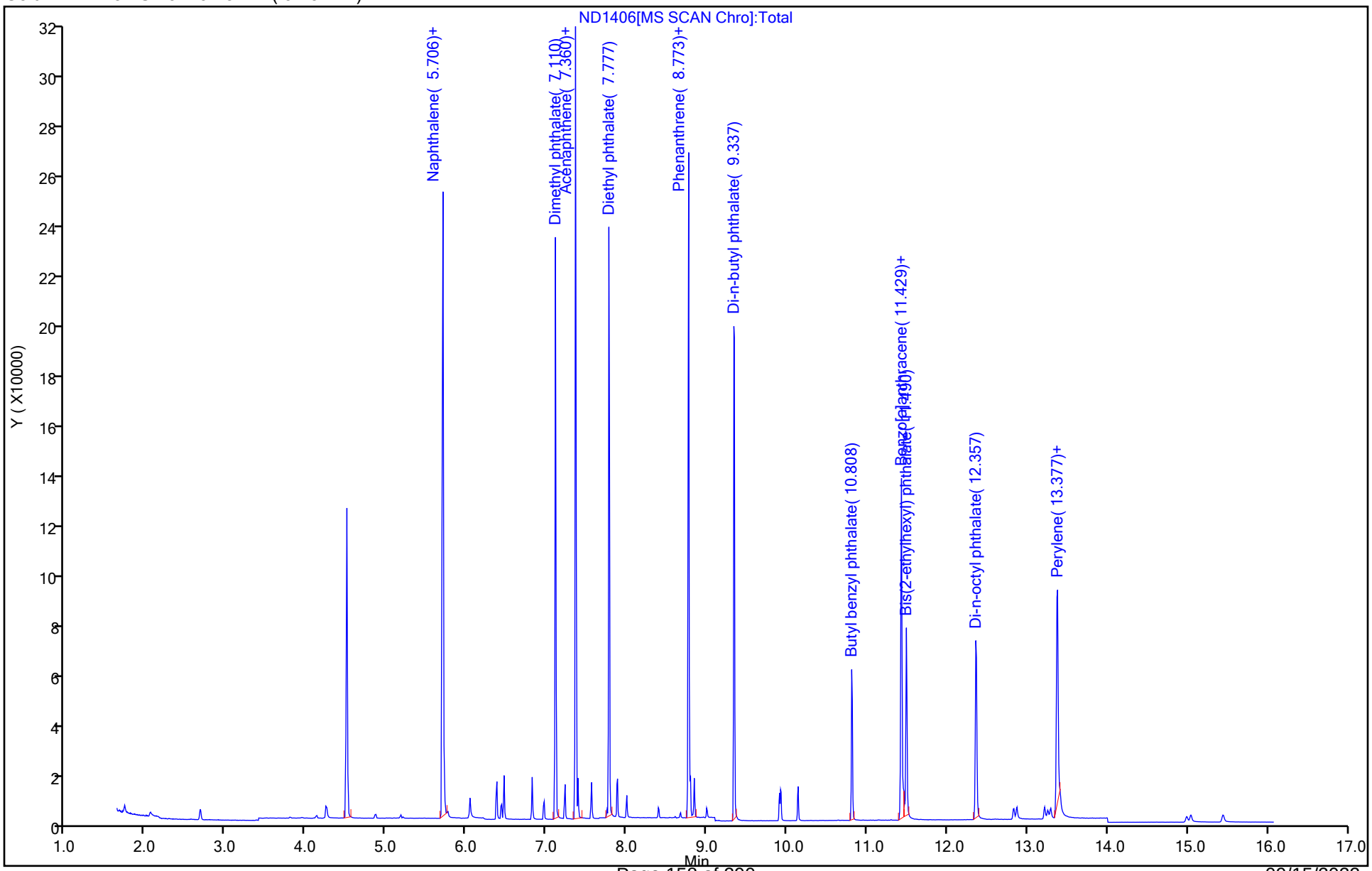
Report Date: 29-Apr-2022 18:27:23 Chrom Revision: 2.3 12-Apr-2022 20:29:44

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20220429-56077.b\ND1406.D

Injection Date:	29-Apr-2022 17:03:30	Instrument ID:	HP23263	Operator ID:	whs02991
Lims ID:	IC L1			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

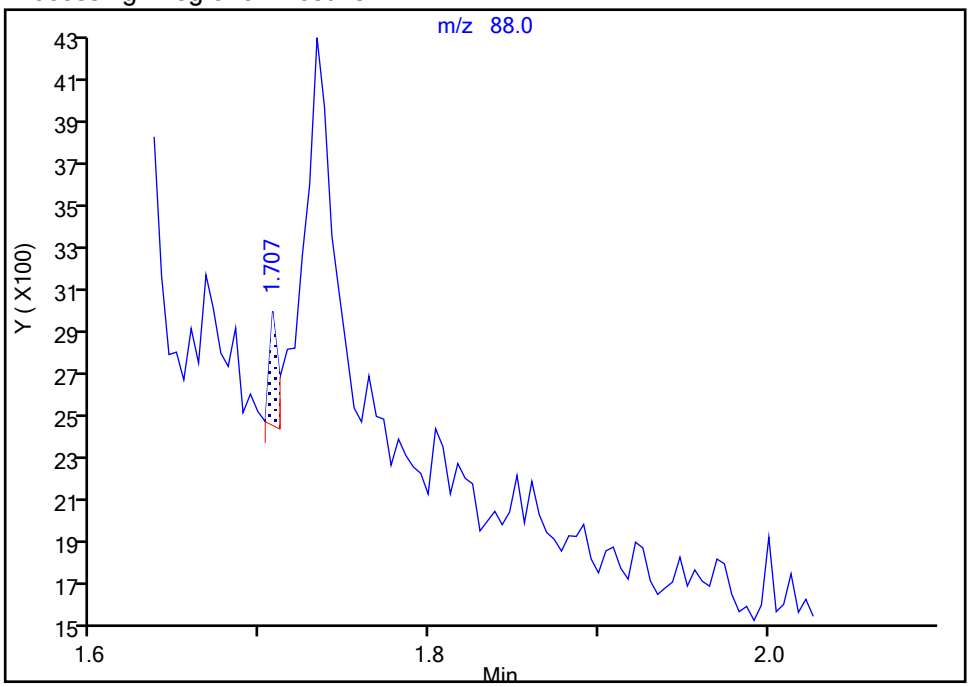
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Lims ID:	IC L1				
Client ID:					
Operator ID:	whs02991	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

1 1,4-Dioxane, CAS: 123-91-1

Signal: 1

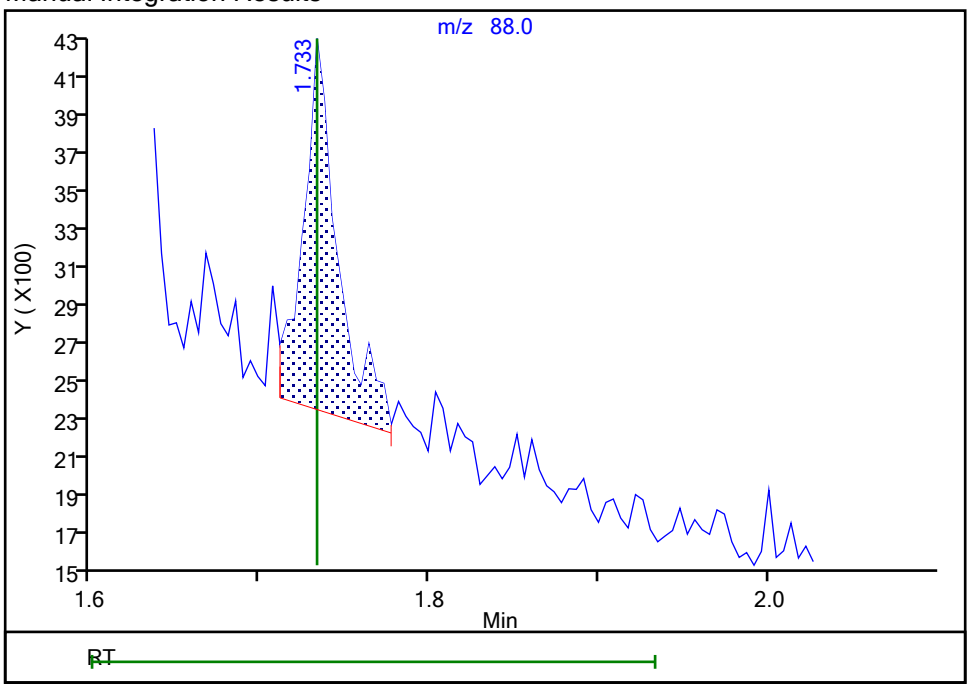
Processing Integration Results

RT: 1.71
Area: 166
Amount: 0.005898
Amount Units: ug/ml



Manual Integration Results

RT: 1.73
Area: 2596
Amount: 0.011540
Amount Units: ug/ml



Reviewer: saadehw, 29-Apr-2022 17:29:06

Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

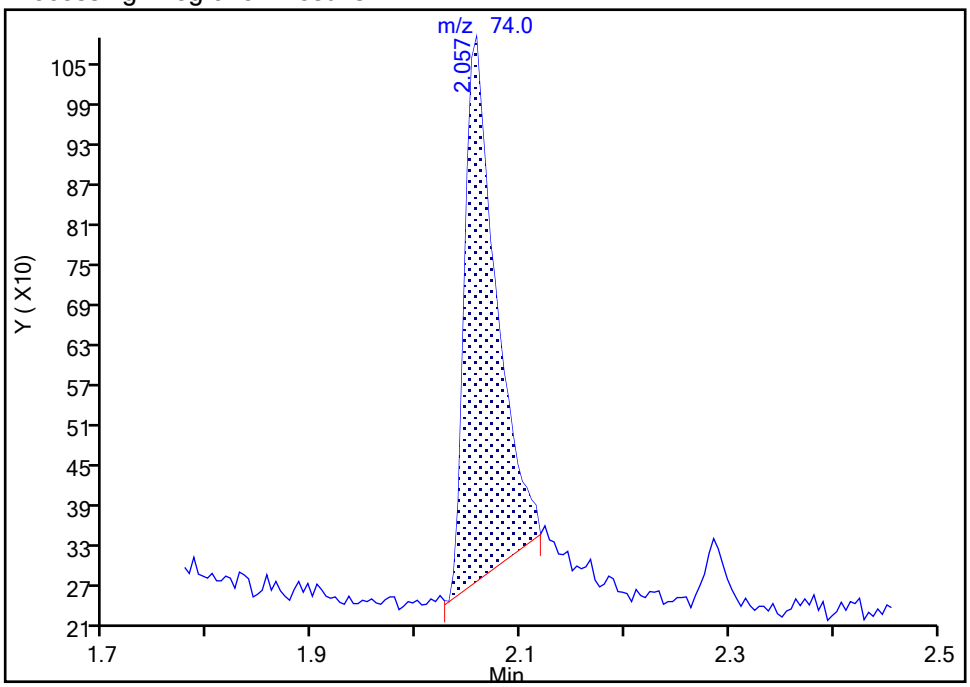
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Lims ID:	IC L1				
Client ID:					
Operator ID:	whs02991	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

2 N-Nitrosodimethylamine, CAS: 62-75-9

Signal: 1

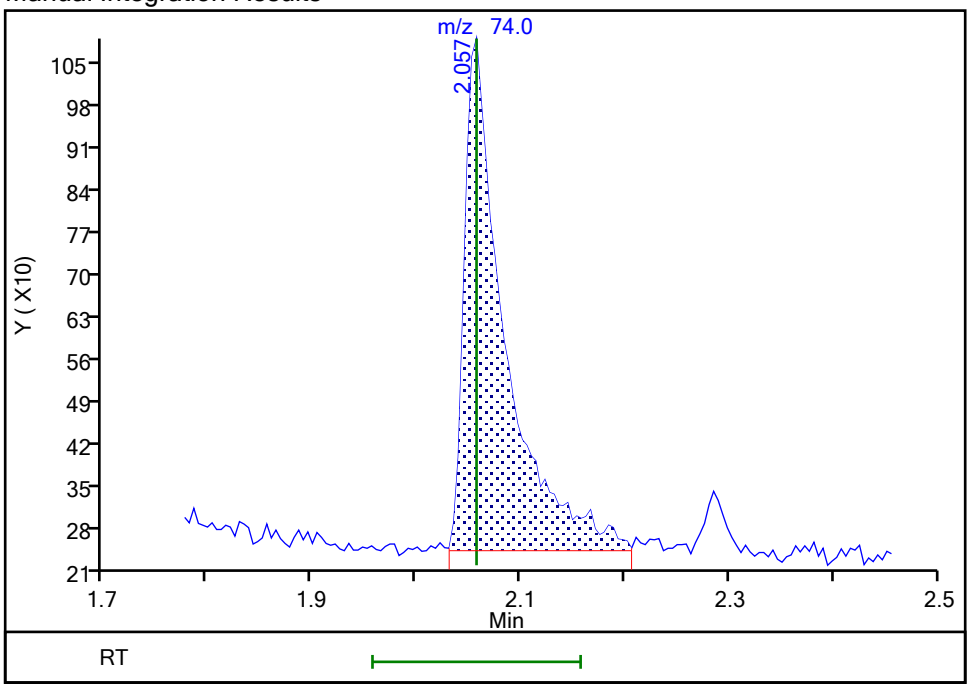
Processing Integration Results

RT: 2.06
Area: 1705
Amount: 0.007105
Amount Units: ug/ml



Manual Integration Results

RT: 2.06
Area: 2277
Amount: 0.009126
Amount Units: ug/ml



Reviewer: saadehw, 29-Apr-2022 17:29:21

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

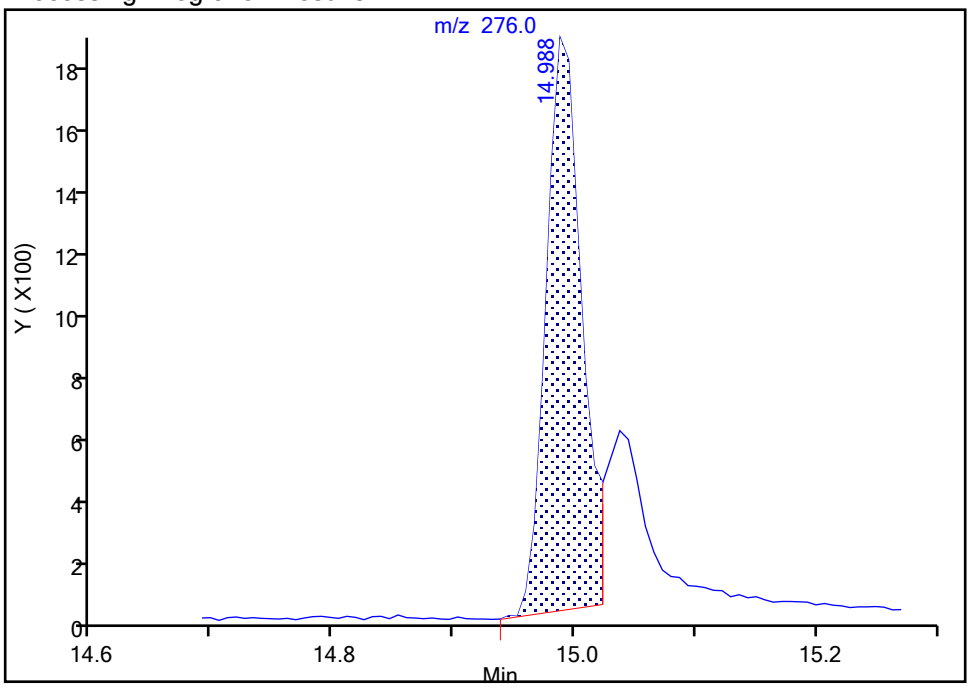
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Lims ID:	IC L1				
Client ID:					
Operator ID:	whs02991	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

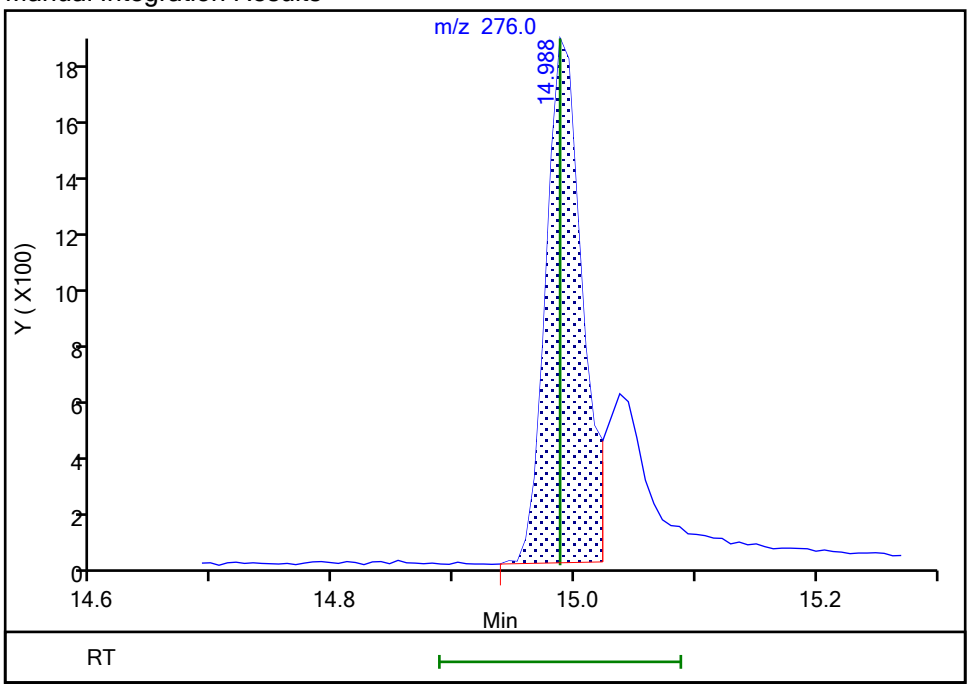
Processing Integration Results

RT: 14.99
Area: 3450
Amount: 0.008878
Amount Units: ug/ml



Manual Integration Results

RT: 14.99
Area: 3539
Amount: 0.009072
Amount Units: ug/ml



Reviewer: saadehw, 29-Apr-2022 17:29:45

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

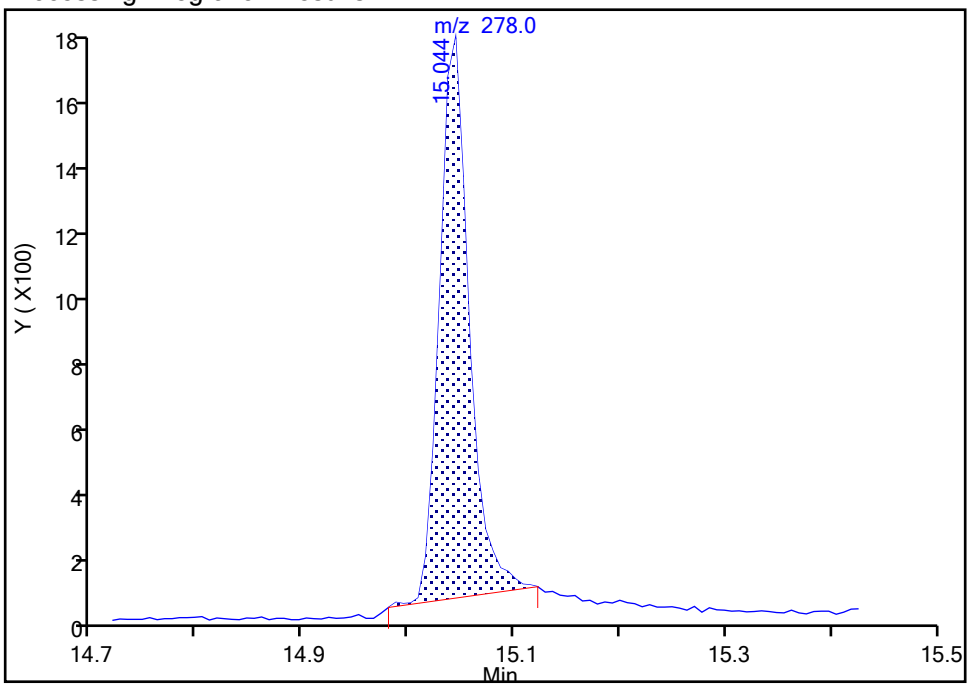
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20220429-56077.b\ND1406.D				
Injection Date:	29-Apr-2022 17:03:30	Instrument ID:	HP23263		
Lims ID:	IC L1				
Client ID:					
Operator ID:	whs02991	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

41 Dibenz(a,h)anthracene, CAS: 53-70-3

Signal: 1

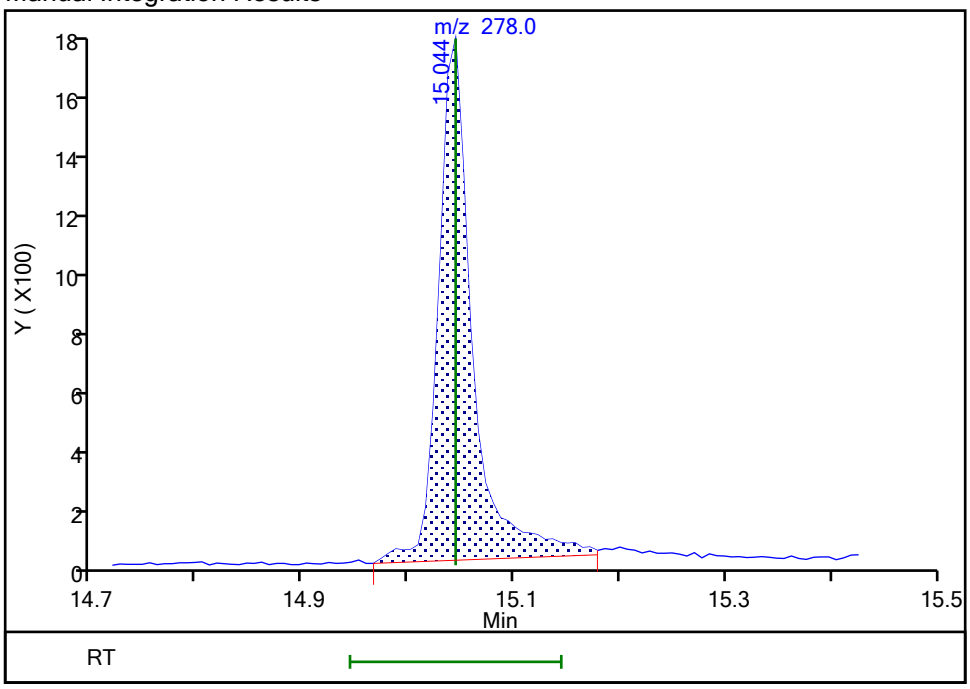
Processing Integration Results

RT: 15.04
Area: 3204
Amount: 0.007132
Amount Units: ug/ml



Manual Integration Results

RT: 15.04
Area: 3792
Amount: 0.008261
Amount Units: ug/ml



Reviewer: saadehw, 29-Apr-2022 17:30:02

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Calibration / 1,4-Dioxane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

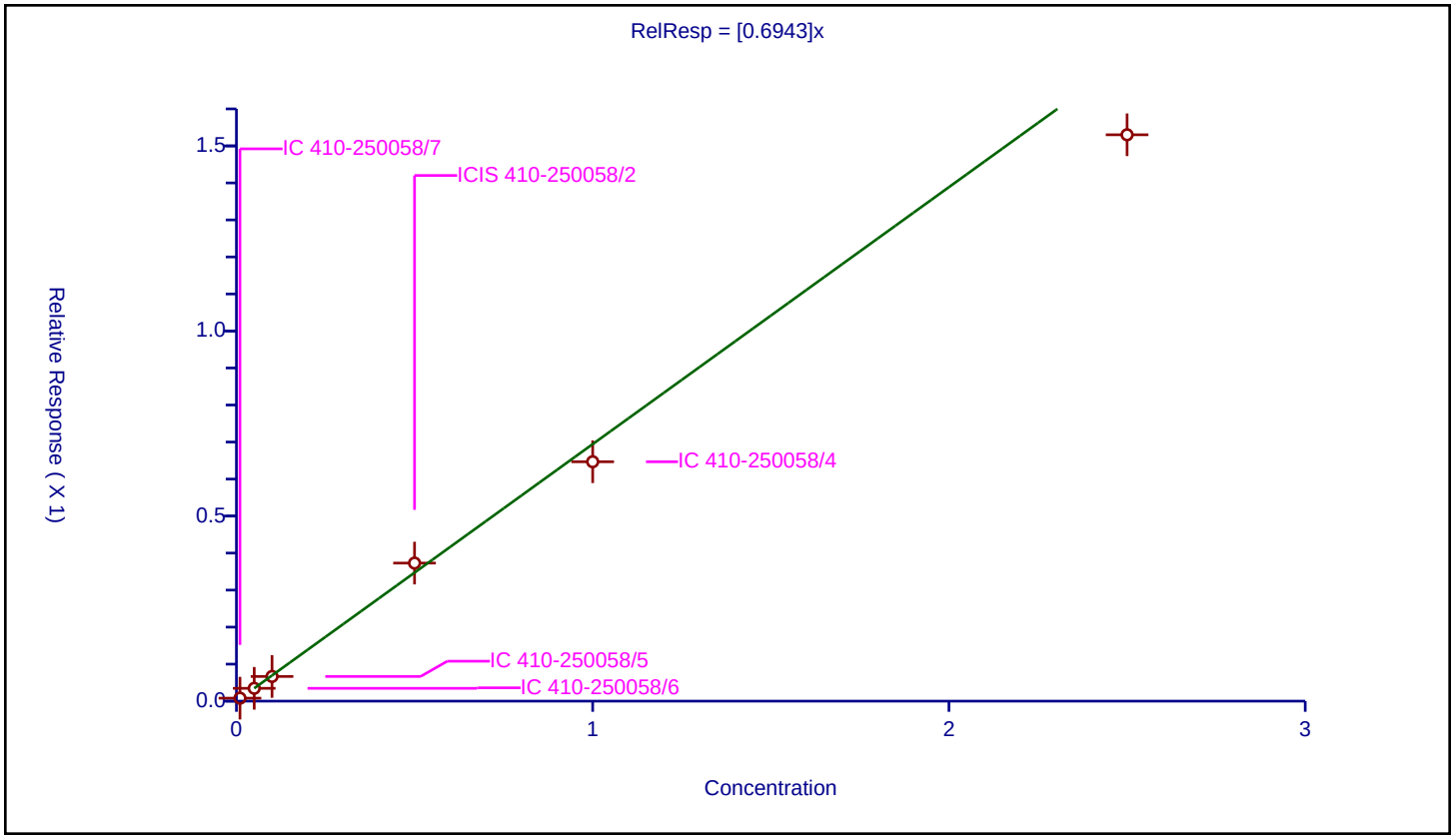
Curve Coefficients

Intercept:	0
Slope:	0.6943

Error Coefficients

Standard Error:	233000
Relative Standard Error:	10.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-250058/7	0.01	0.008012	0.25	81001.0	0.801225	Y
2	IC 410-250058/6	0.05	0.034661	0.25	83654.0	0.693213	Y
3	IC 410-250058/5	0.1	0.066673	0.25	83111.0	0.666729	Y
4	ICIS 410-250058/2	0.5	0.372991	0.25	75428.0	0.745983	Y
5	IC 410-250058/4	1.0	0.64676	0.25	76269.0	0.64676	Y
6	IC 410-250058/3	2.5	1.530051	0.25	76345.0	0.61202	Y



Calibration / N-Nitrosodimethylamine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

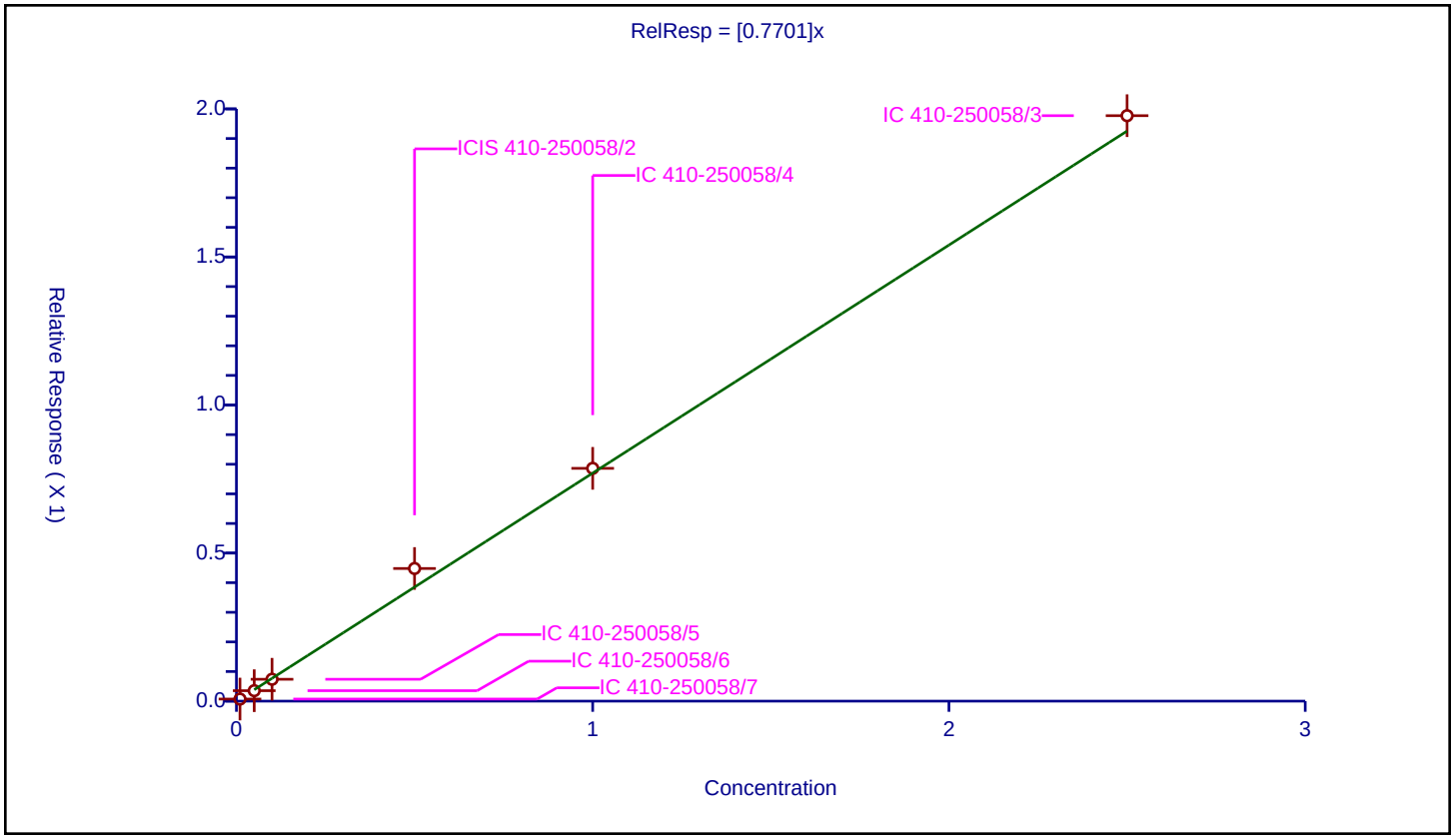
Curve Coefficients

Intercept:	0
Slope:	0.7701

Error Coefficients

Standard Error:	297000
Relative Standard Error:	9.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-250058/7	0.01	0.007028	0.25	81001.0	0.702769	Y
2	IC 410-250058/6	0.05	0.035279	0.25	83654.0	0.705585	Y
3	IC 410-250058/5	0.1	0.073931	0.25	83111.0	0.739312	Y
4	ICIS 410-250058/2	0.5	0.447927	0.25	75428.0	0.895854	Y
5	IC 410-250058/4	1.0	0.786155	0.25	76269.0	0.786155	Y
6	IC 410-250058/3	2.5	1.977074	0.25	76345.0	0.79083	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

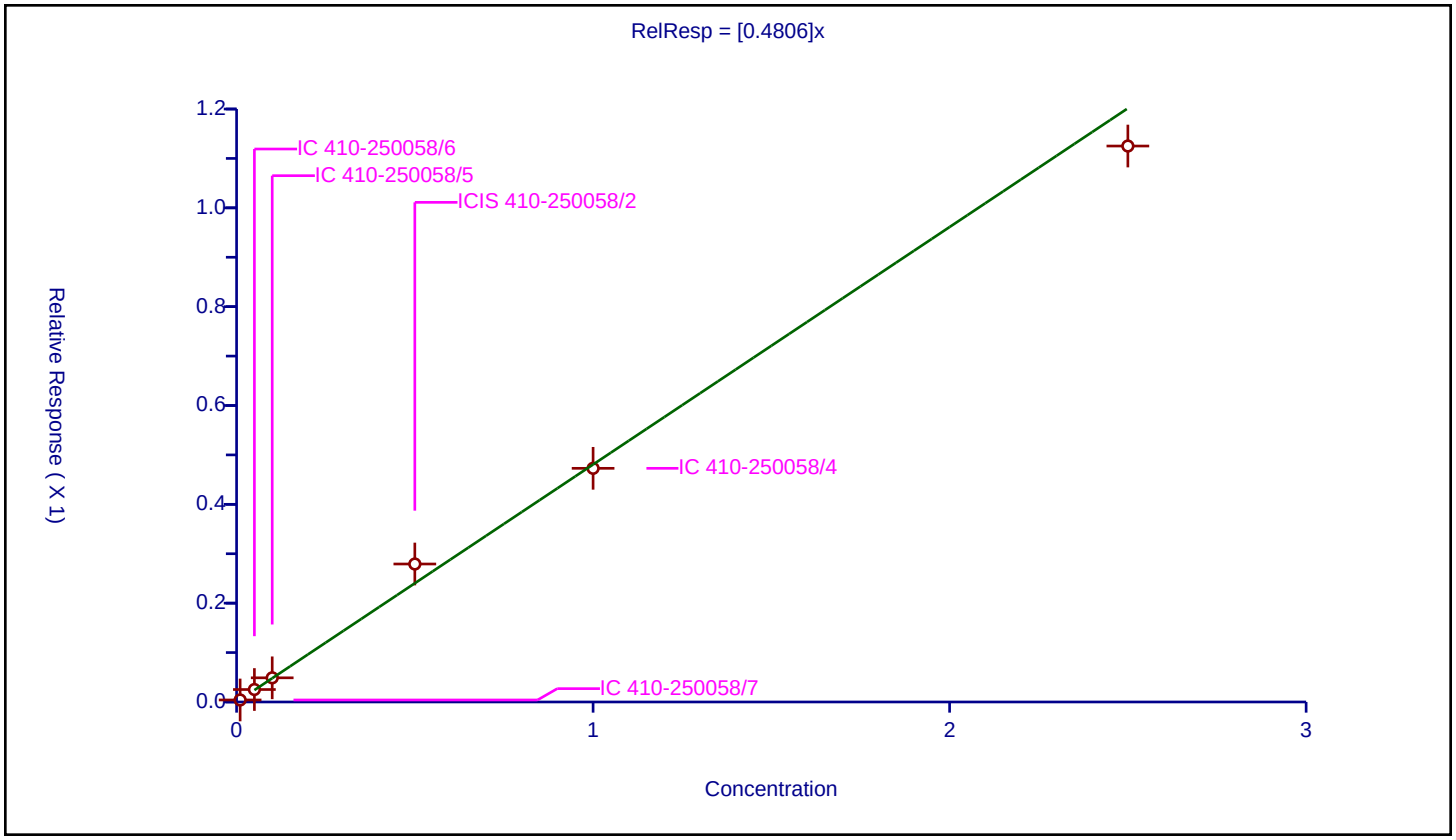
Curve Coefficients

Intercept:	0
Slope:	0.4806

Error Coefficients

Standard Error:	574000
Relative Standard Error:	10.6
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-250058/7	0.01	0.004082	0.25	263807.0	0.408158	Y
2	IC 410-250058/6	0.05	0.025244	0.25	269208.0	0.504888	Y
3	IC 410-250058/5	0.1	0.048912	0.25	276177.0	0.489116	Y
4	ICIS 410-250058/2	0.5	0.279232	0.25	246992.0	0.558463	Y
5	IC 410-250058/4	1.0	0.472868	0.25	257491.0	0.472868	Y
6	IC 410-250058/3	2.5	1.125115	0.25	256538.0	0.450046	Y



Calibration / Naphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

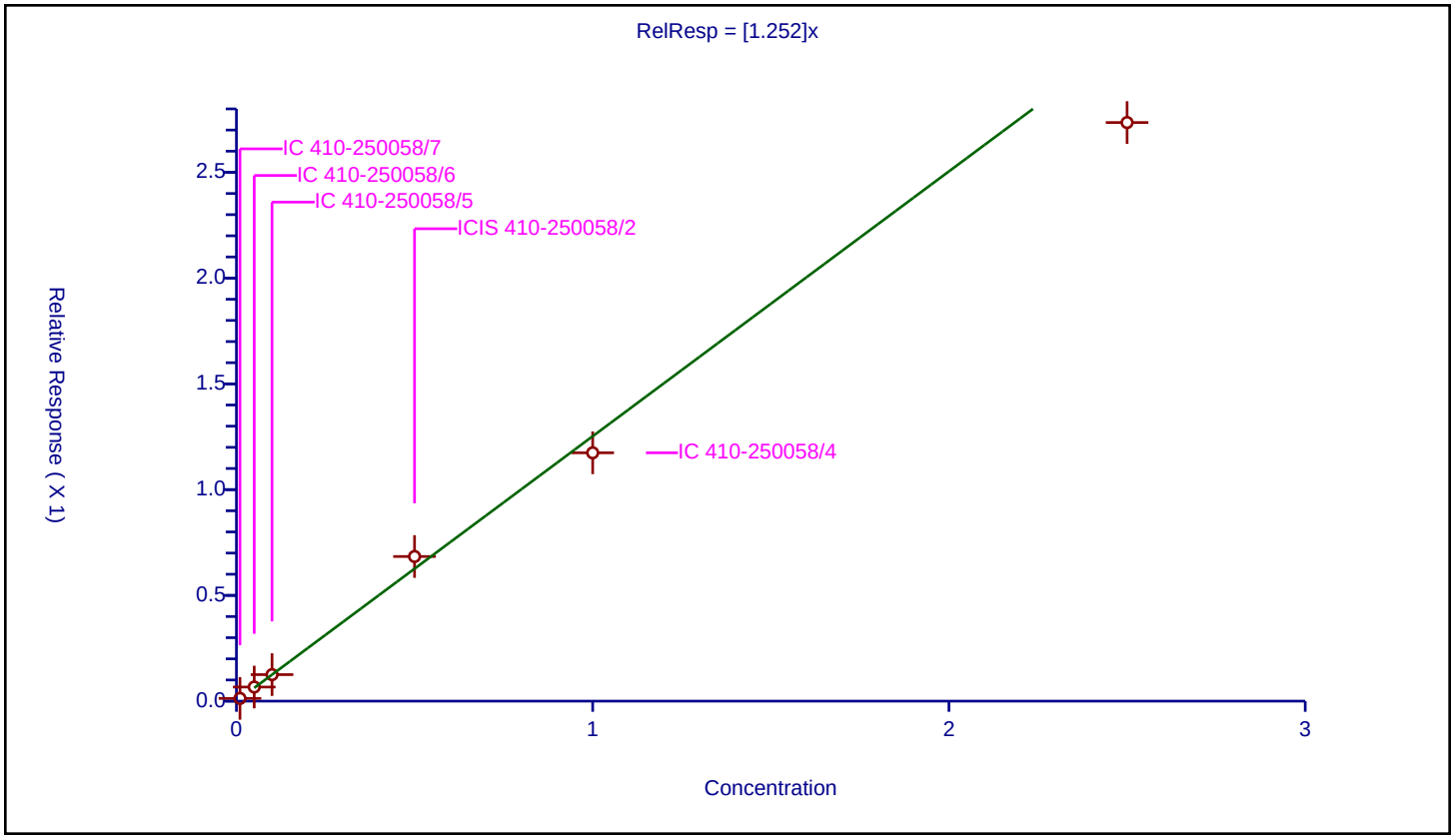
Curve Coefficients

Intercept:	0
Slope:	1.252

Error Coefficients

Standard Error:	1400000
Relative Standard Error:	8.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-250058/7	0.01	0.012902	0.25	263807.0	1.290242	Y
2	IC 410-250058/6	0.05	0.066709	0.25	269208.0	1.334173	Y
3	IC 410-250058/5	0.1	0.125343	0.25	276177.0	1.253426	Y
4	ICIS 410-250058/2	0.5	0.683859	0.25	246992.0	1.367718	Y
5	IC 410-250058/4	1.0	1.174069	0.25	257491.0	1.174069	Y
6	IC 410-250058/3	2.5	2.735513	0.25	256538.0	1.094205	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

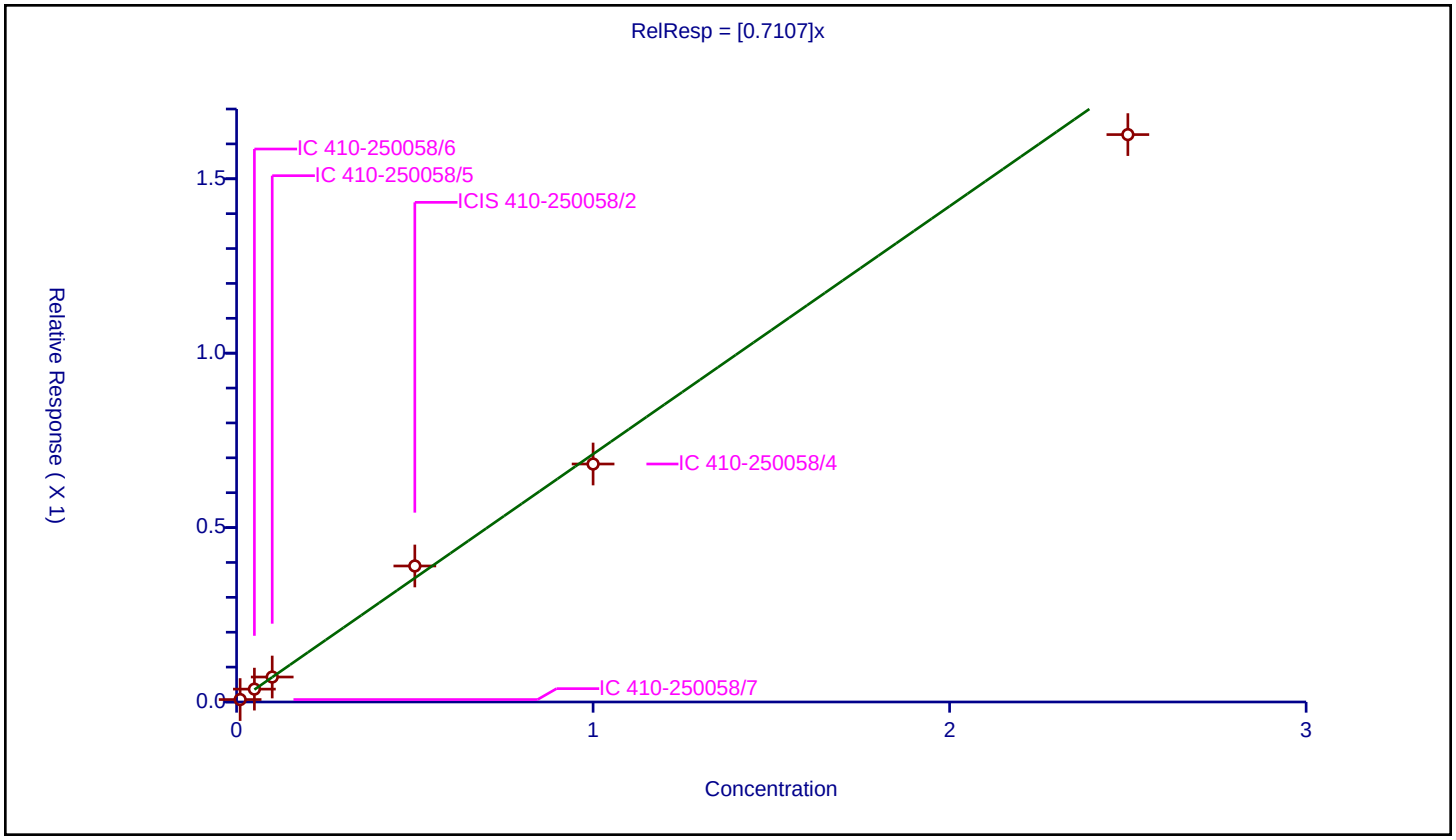
Curve Coefficients

Intercept:	0
Slope:	0.7107

Error Coefficients

Standard Error:	829000
Relative Standard Error:	6.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-250058/7	0.01	0.006978	0.25	263807.0	0.697764	Y
2	IC 410-250058/6	0.05	0.036857	0.25	269208.0	0.737144	Y
3	IC 410-250058/5	0.1	0.071632	0.25	276177.0	0.716316	Y
4	ICIS 410-250058/2	0.5	0.389959	0.25	246992.0	0.779918	Y
5	IC 410-250058/4	1.0	0.682314	0.25	257491.0	0.682314	Y
6	IC 410-250058/3	2.5	1.626663	0.25	256538.0	0.650665	Y



Calibration / 2-Methylnaphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

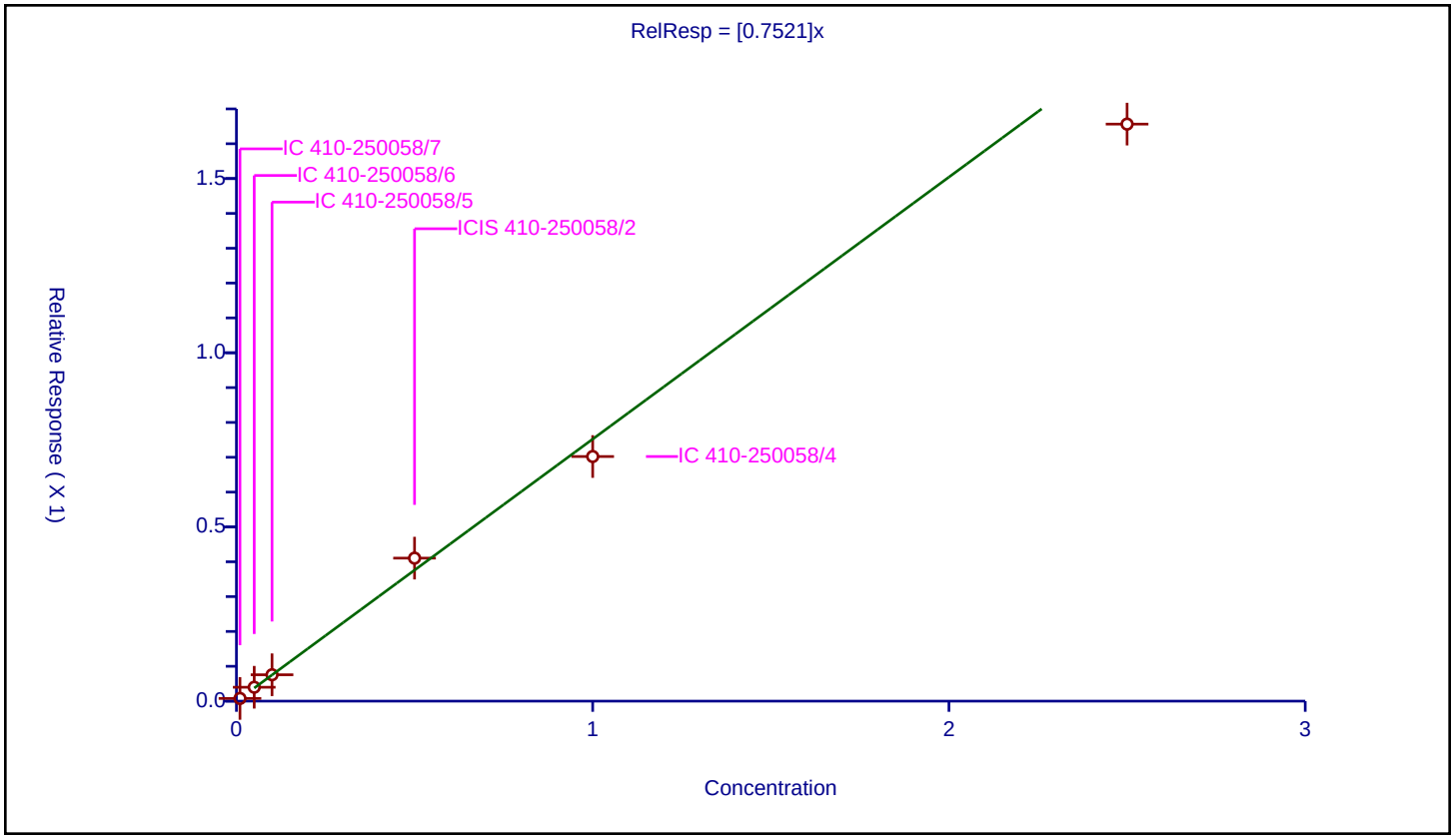
Curve Coefficients

Intercept:	0
Slope:	0.7521

Error Coefficients

Standard Error:	847000
Relative Standard Error:	7.9
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-250058/7	0.01	0.007729	0.25	263807.0	0.772914	Y
2	IC 410-250058/6	0.05	0.03985	0.25	269208.0	0.797005	Y
3	IC 410-250058/5	0.1	0.075702	0.25	276177.0	0.757024	Y
4	ICIS 410-250058/2	0.5	0.410532	0.25	246992.0	0.821063	Y
5	IC 410-250058/4	1.0	0.702176	0.25	257491.0	0.702176	Y
6	IC 410-250058/3	2.5	1.656374	0.25	256538.0	0.662549	Y



Calibration / 1-Methylnaphthalene-d10

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

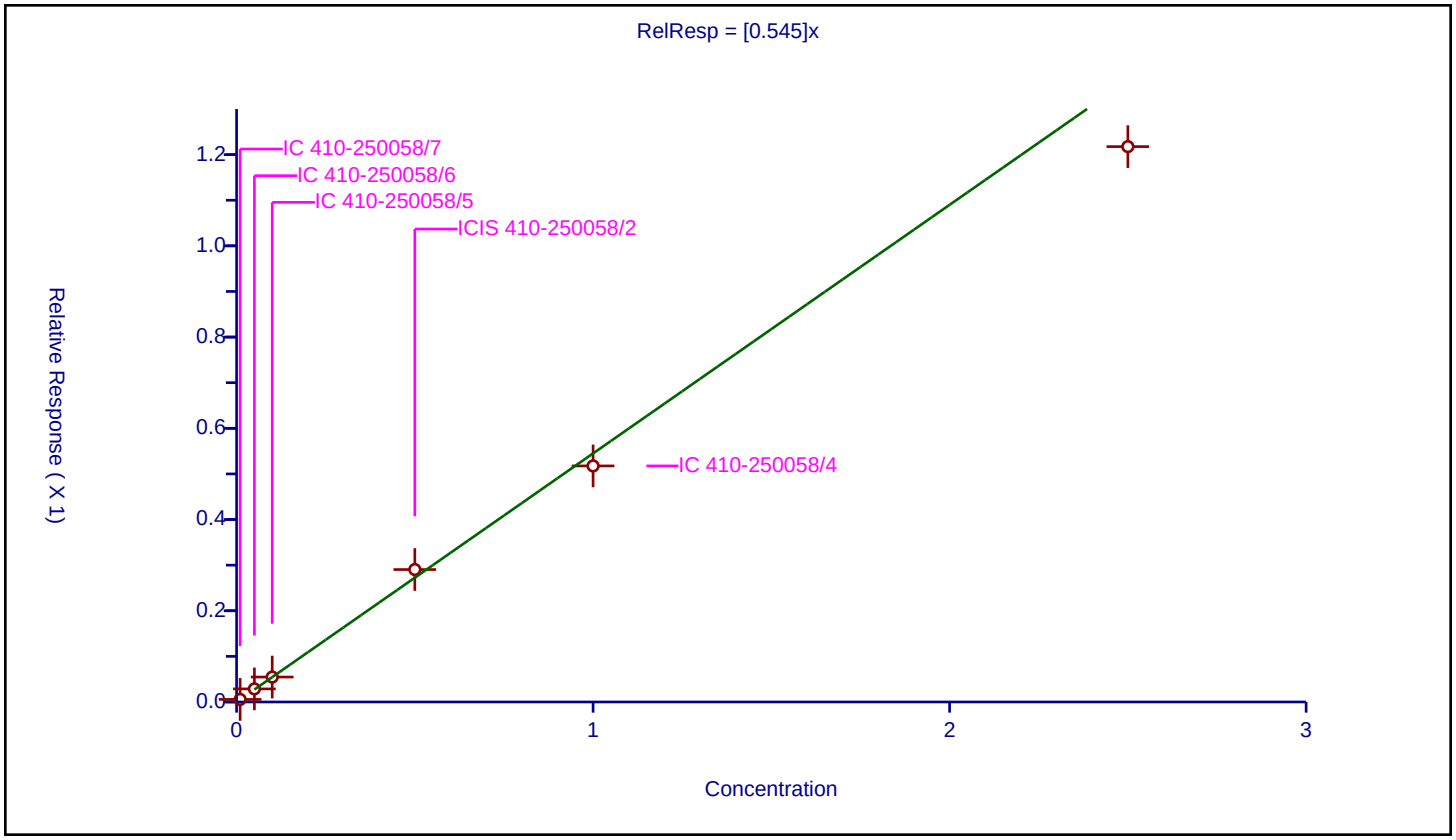
Curve Coefficients

Intercept:	0
Slope:	0.545

Error Coefficients

Standard Error:	622000
Relative Standard Error:	6.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-250058/7	0.01	0.005645	0.25	263807.0	0.564523	Y
2	IC 410-250058/6	0.05	0.028649	0.25	269208.0	0.572977	Y
3	IC 410-250058/5	0.1	0.054703	0.25	276177.0	0.547031	Y
4	ICIS 410-250058/2	0.5	0.290345	0.25	246992.0	0.580691	Y
5	IC 410-250058/4	1.0	0.517513	0.25	257491.0	0.517513	Y
6	IC 410-250058/3	2.5	1.217556	0.25	256538.0	0.487023	Y



Calibration / 1-Methylnaphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

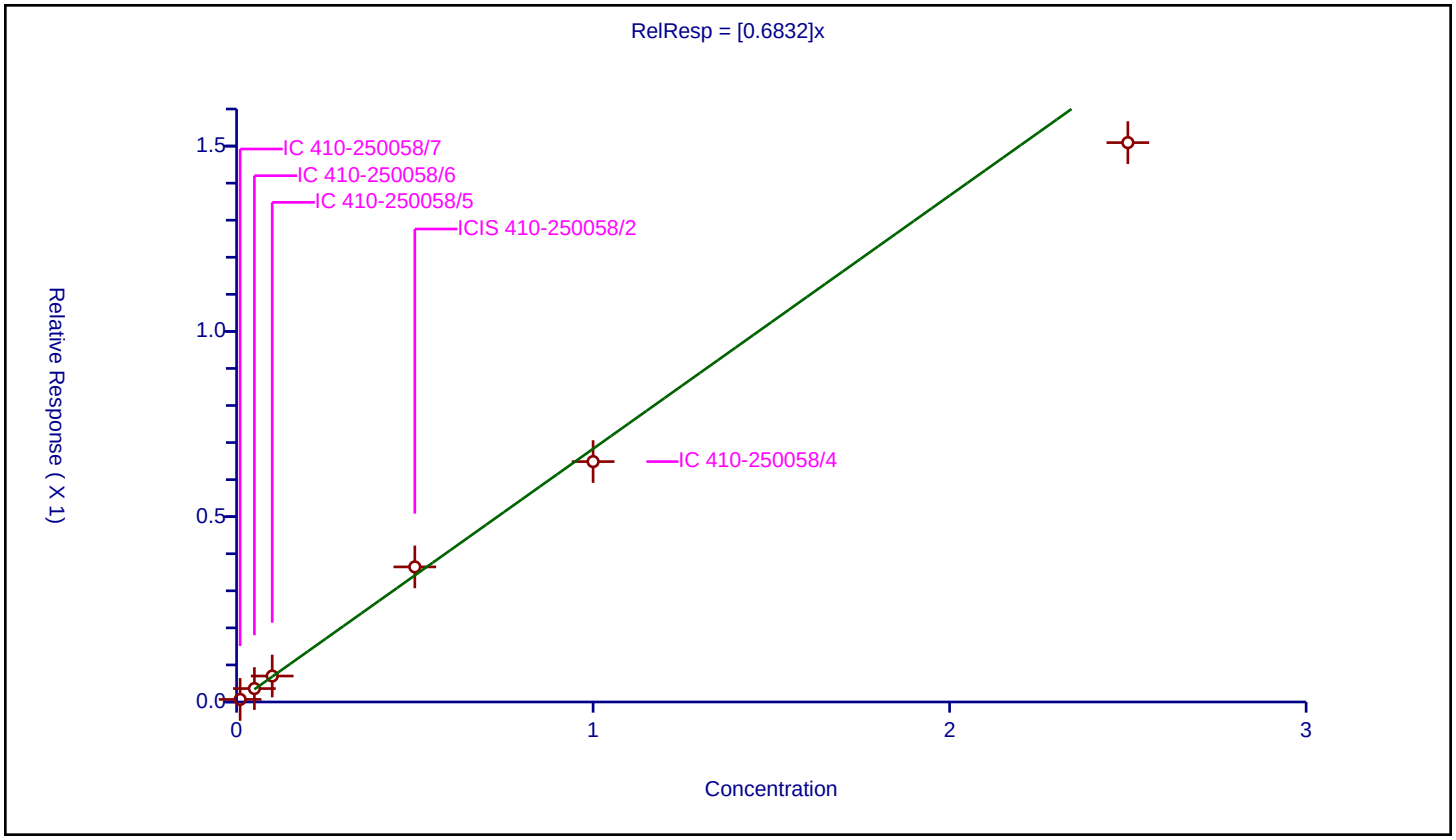
Curve Coefficients

Intercept:	0
Slope:	0.6832

Error Coefficients

Standard Error:	772000
Relative Standard Error:	7.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-250058/7	0.01	0.006925	0.25	263807.0	0.692457	Y
2	IC 410-250058/6	0.05	0.036228	0.25	269208.0	0.72457	Y
3	IC 410-250058/5	0.1	0.070064	0.25	276177.0	0.700638	Y
4	ICIS 410-250058/2	0.5	0.364502	0.25	246992.0	0.729003	Y
5	IC 410-250058/4	1.0	0.648659	0.25	257491.0	0.648659	Y
6	IC 410-250058/3	2.5	1.509312	0.25	256538.0	0.603725	Y



Calibration / Dimethyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

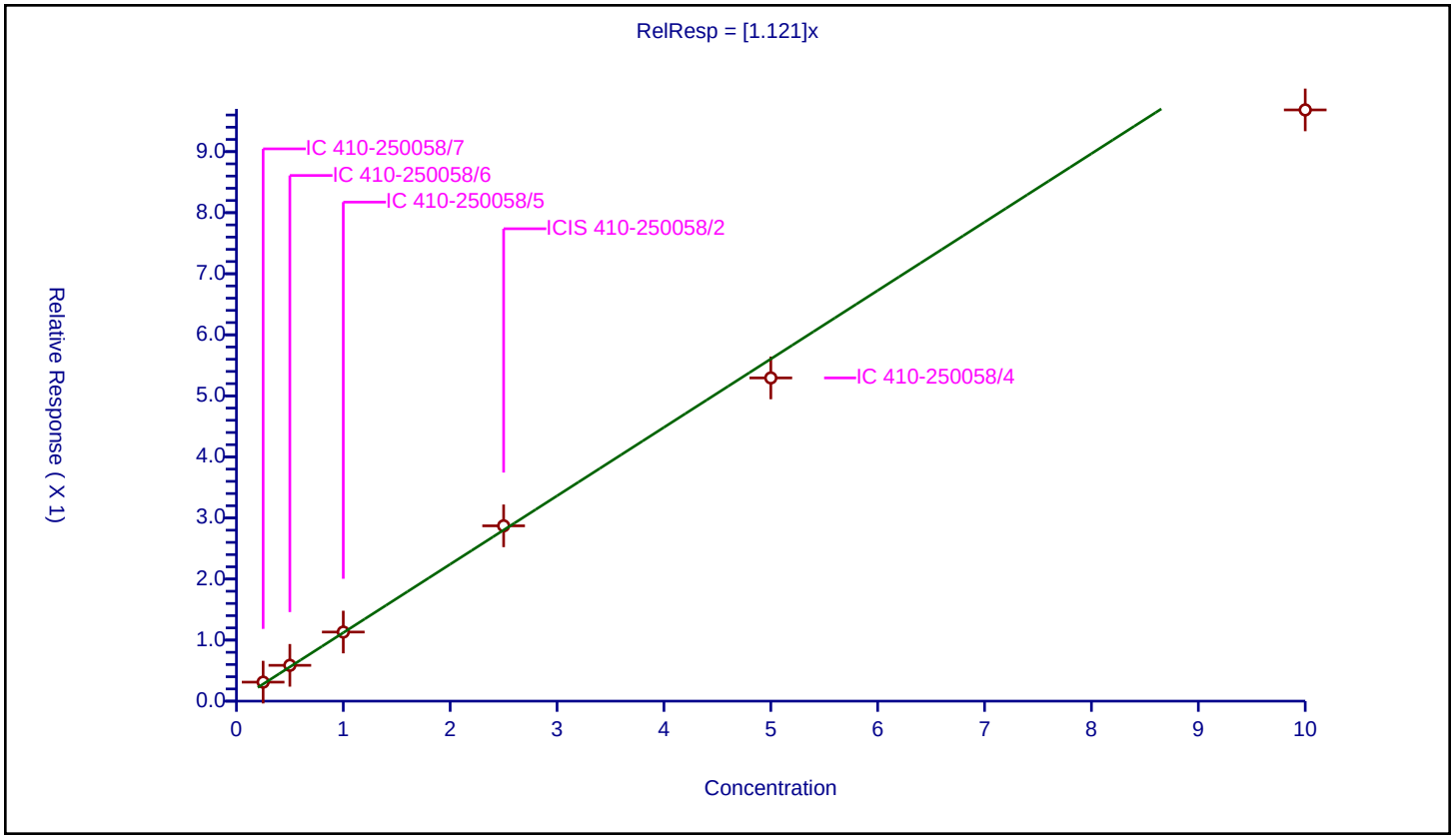
Curve Coefficients

Intercept:	0
Slope:	1.121

Error Coefficients

Standard Error:	2270000
Relative Standard Error:	8.6
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-250058/7	0.25	0.31117	0.25	120729.0	1.24468	Y
2	IC 410-250058/6	0.5	0.586625	0.25	122295.0	1.173249	Y
3	IC 410-250058/5	1.0	1.131651	0.25	123313.0	1.131651	Y
4	ICIS 410-250058/2	2.5	2.871542	0.25	113531.0	1.148617	Y
5	IC 410-250058/4	5.0	5.293676	0.25	113324.0	1.058735	Y
6	IC 410-250058/3	10.0	9.683466	0.25	109109.0	0.968347	Y



Calibration / Acenaphthylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

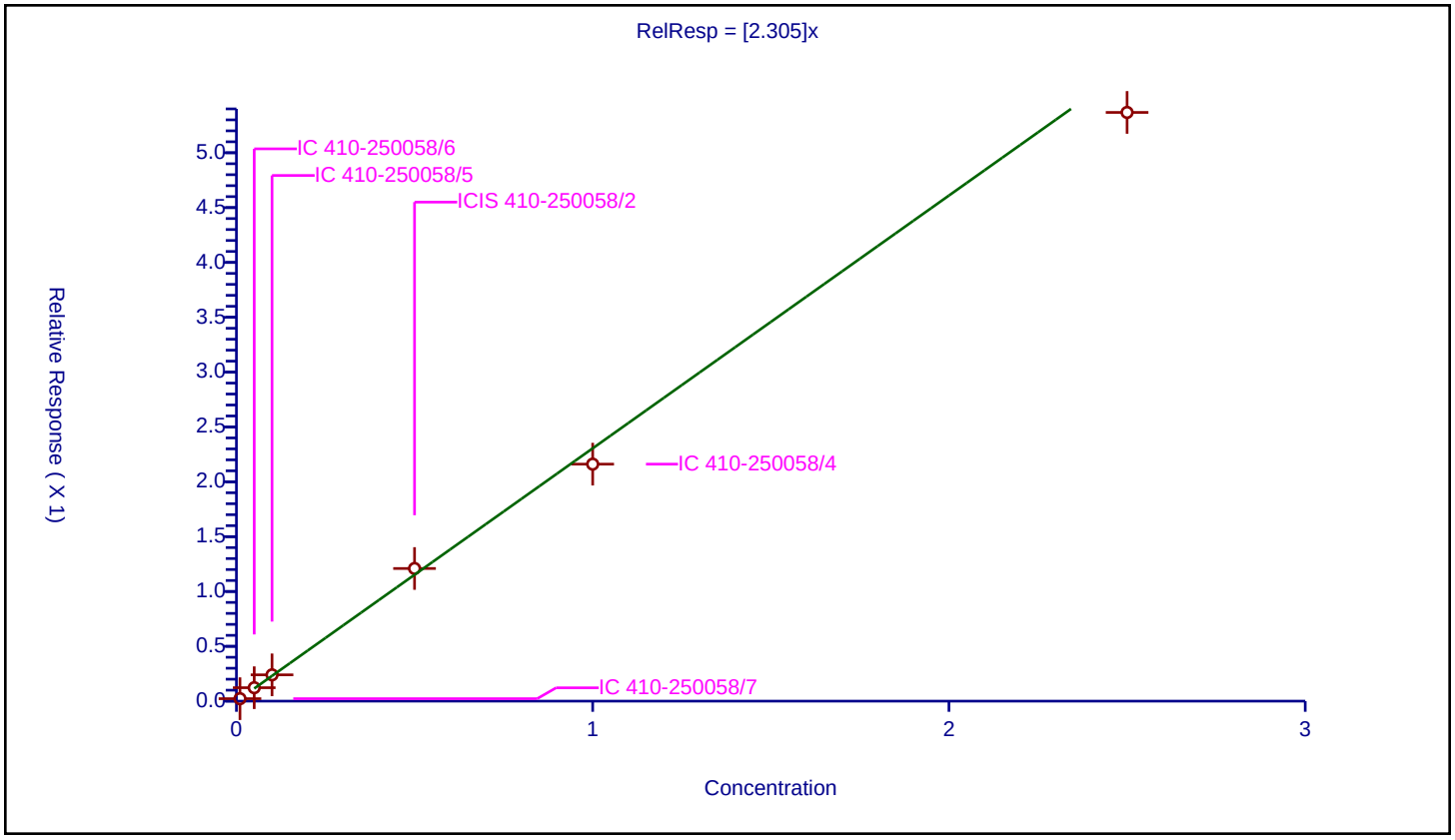
Curve Coefficients

Intercept:	0
Slope:	2.305

Error Coefficients

Standard Error:	1160000
Relative Standard Error:	5.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-250058/7	0.01	0.022567	0.25	120729.0	2.256707	Y
2	IC 410-250058/6	0.05	0.122431	0.25	122295.0	2.448628	Y
3	IC 410-250058/5	0.1	0.239788	0.25	123313.0	2.397882	Y
4	ICIS 410-250058/2	0.5	1.209381	0.25	113531.0	2.418762	Y
5	IC 410-250058/4	1.0	2.16099	0.25	113324.0	2.16099	Y
6	IC 410-250058/3	2.5	5.367724	0.25	109109.0	2.14709	Y



Calibration / Acenaphthene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

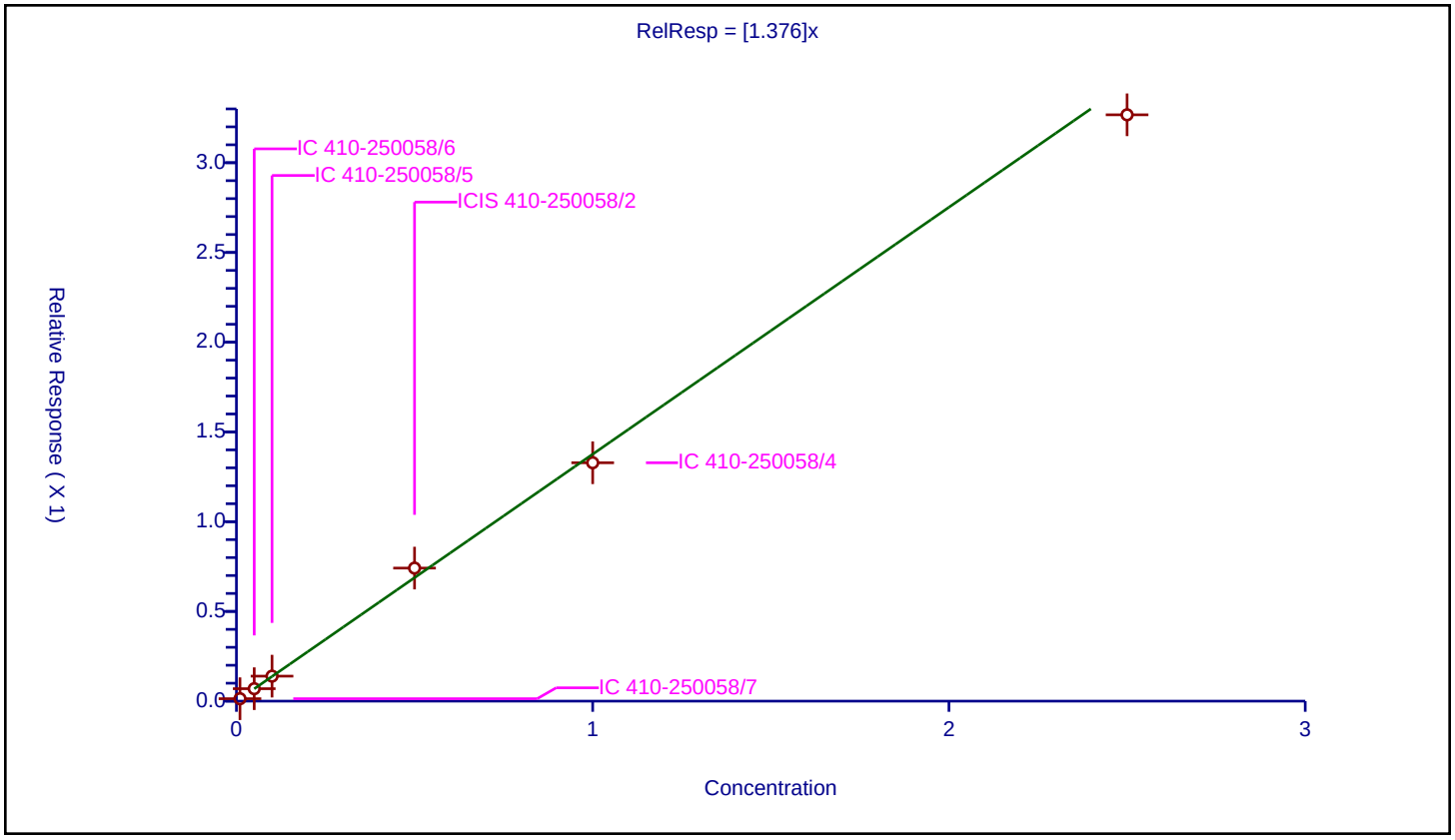
Curve Coefficients

Intercept:	0
Slope:	1.376

Error Coefficients

Standard Error:	709000
Relative Standard Error:	4.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-250058/7	0.01	0.013578	0.25	120729.0	1.357793	Y
2	IC 410-250058/6	0.05	0.069355	0.25	122295.0	1.387097	Y
3	IC 410-250058/5	0.1	0.139298	0.25	123313.0	1.39298	Y
4	ICIS 410-250058/2	0.5	0.741364	0.25	113531.0	1.482727	Y
5	IC 410-250058/4	1.0	1.328322	0.25	113324.0	1.328322	Y
6	IC 410-250058/3	2.5	3.267045	0.25	109109.0	1.306818	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

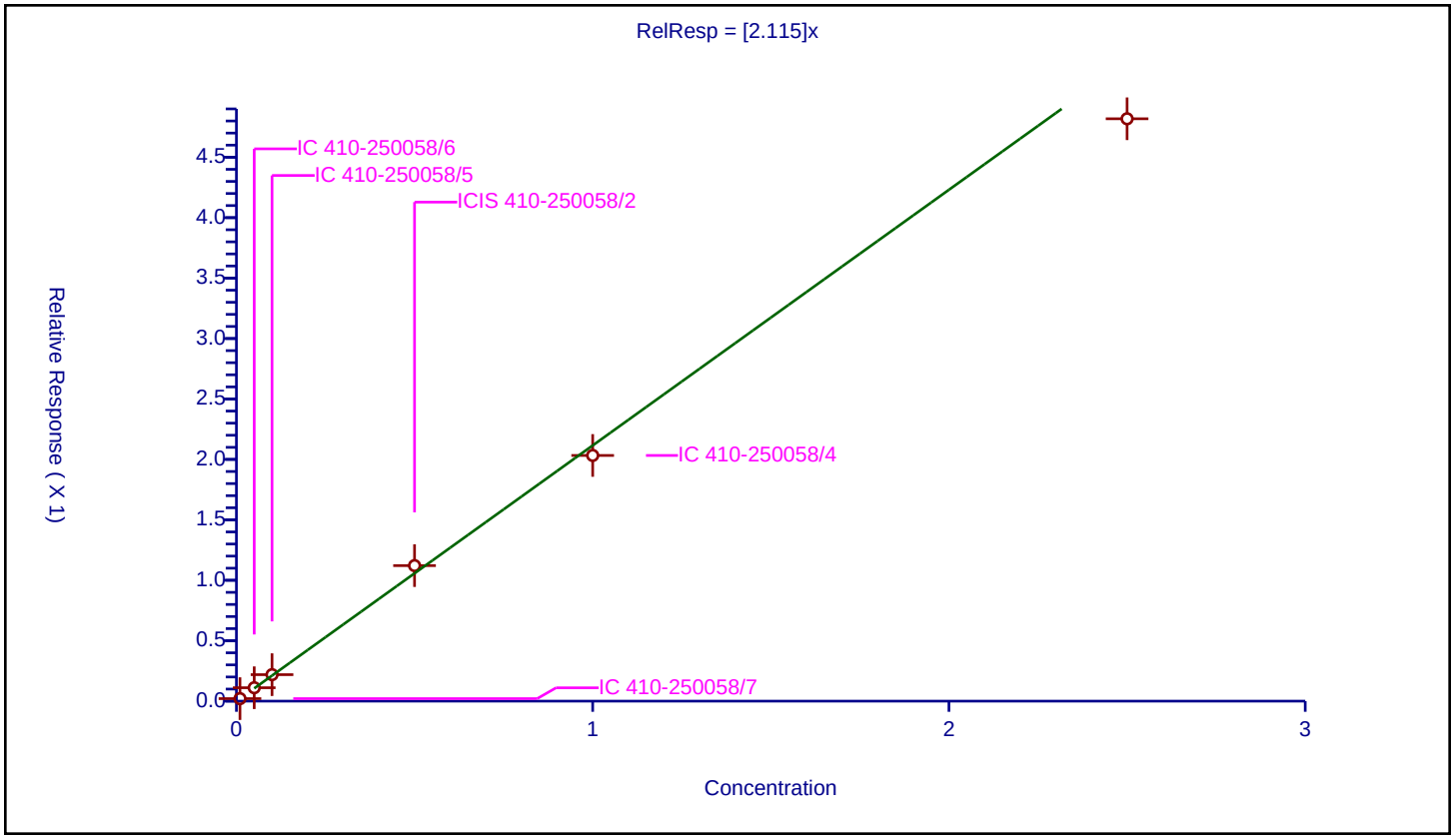
Curve Coefficients

Intercept:	0
Slope:	2.115

Error Coefficients

Standard Error:	1050000
Relative Standard Error:	5.9
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-250058/7	0.01	0.020778	0.25	120729.0	2.077794	Y
2	IC 410-250058/6	0.05	0.111023	0.25	122295.0	2.220451	Y
3	IC 410-250058/5	0.1	0.21916	0.25	123313.0	2.191598	Y
4	ICIS 410-250058/2	0.5	1.121185	0.25	113531.0	2.24237	Y
5	IC 410-250058/4	1.0	2.032751	0.25	113324.0	2.032751	Y
6	IC 410-250058/3	2.5	4.818351	0.25	109109.0	1.927341	Y



Calibration / Diethyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

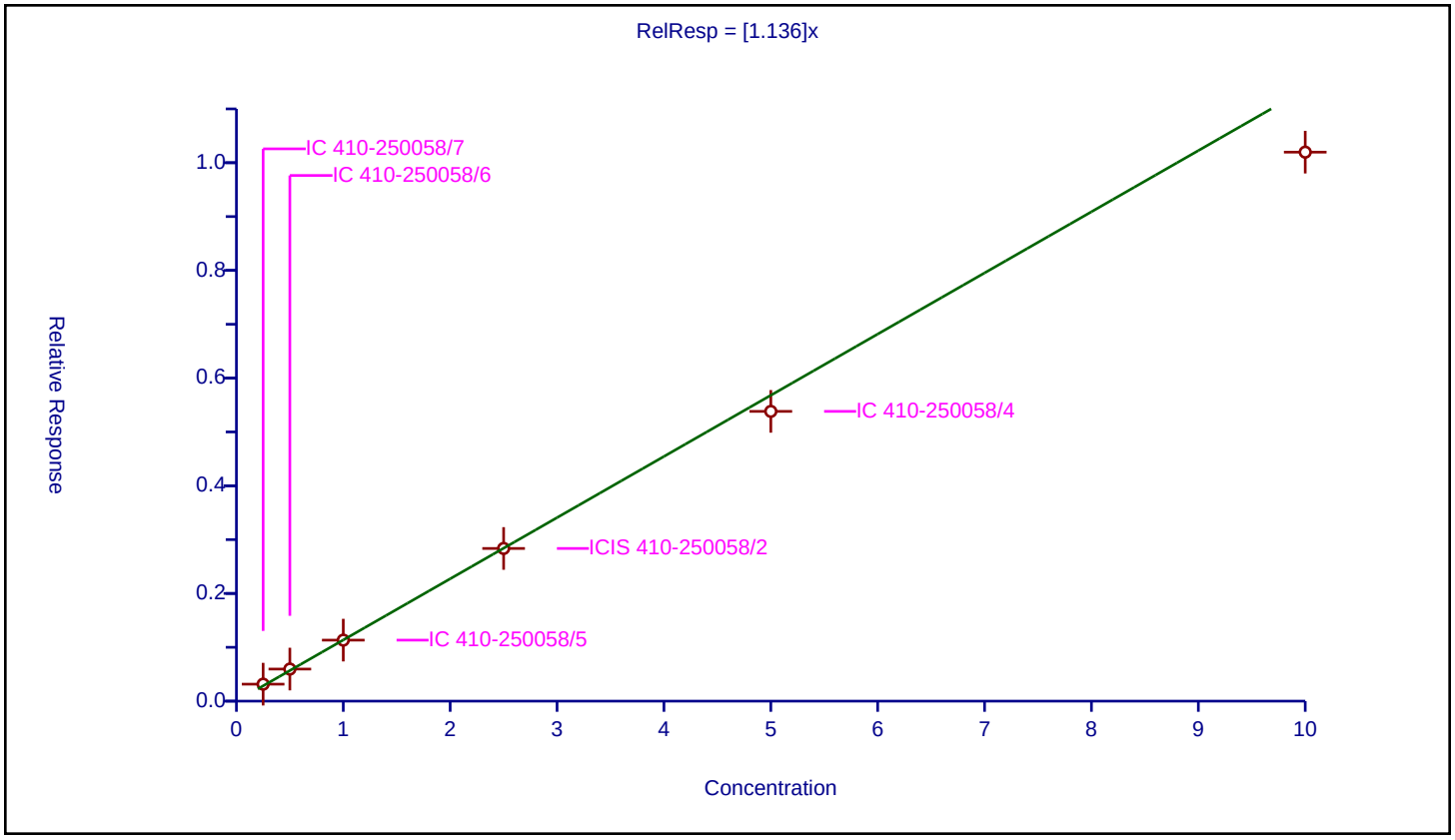
Curve Coefficients

Intercept:	0
Slope:	1.136

Error Coefficients

Standard Error:	2360000
Relative Standard Error:	7.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-250058/7	0.25	0.315465	0.25	120729.0	1.261859	Y
2	IC 410-250058/6	0.5	0.59584	0.25	122295.0	1.19168	Y
3	IC 410-250058/5	1.0	1.133052	0.25	123313.0	1.133052	Y
4	ICIS 410-250058/2	2.5	2.835853	0.25	113531.0	1.134341	Y
5	IC 410-250058/4	5.0	5.381669	0.25	113324.0	1.076334	Y
6	IC 410-250058/3	10.0	10.196739	0.25	109109.0	1.019674	Y



Calibration / Fluorene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

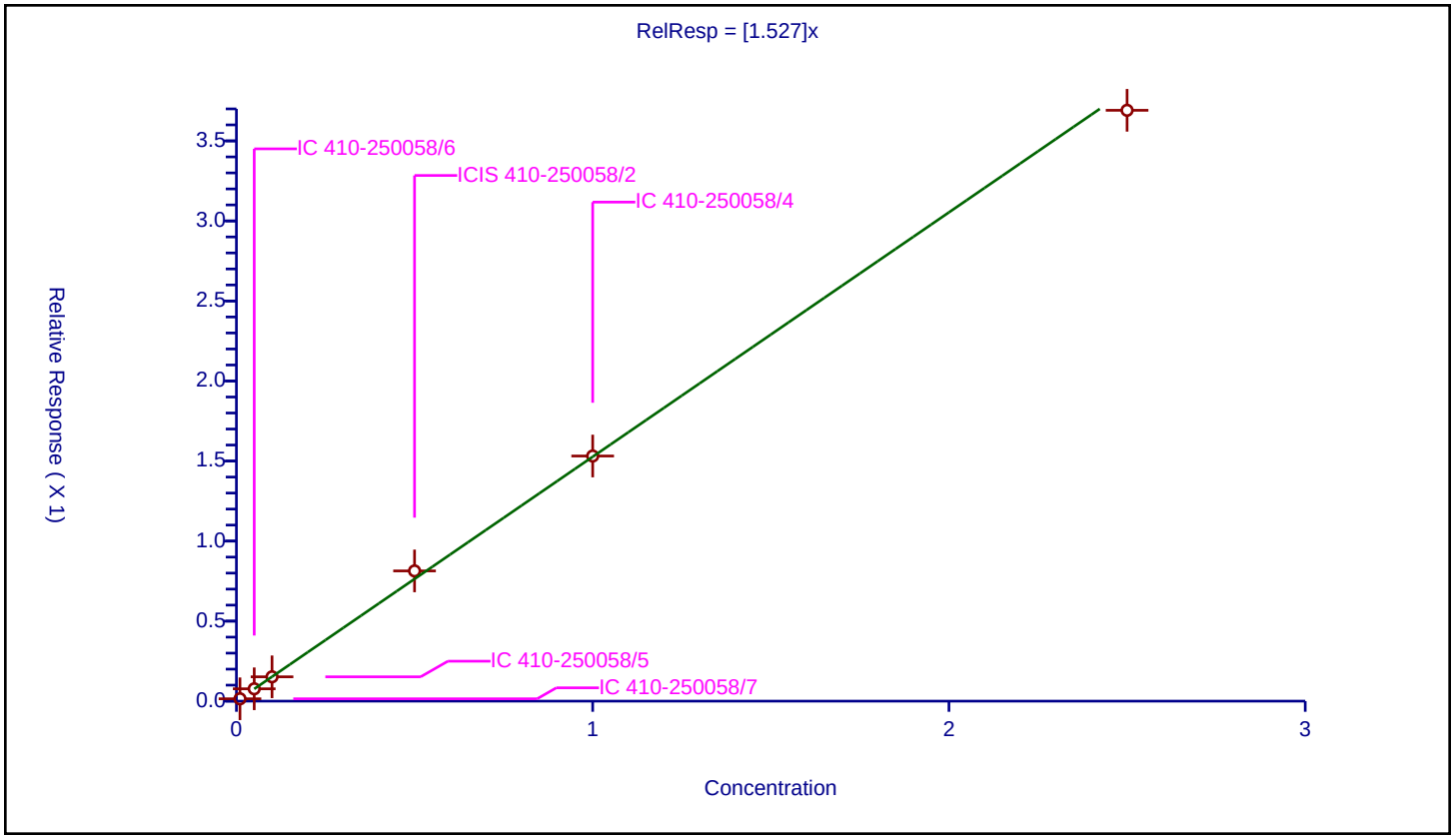
Curve Coefficients

Intercept:	0
Slope:	1.527

Error Coefficients

Standard Error:	803000
Relative Standard Error:	3.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-250058/7	0.01	0.014646	0.25	120729.0	1.464644	Y
2	IC 410-250058/6	0.05	0.077049	0.25	122295.0	1.540987	Y
3	IC 410-250058/5	0.1	0.151995	0.25	123313.0	1.519953	Y
4	ICIS 410-250058/2	0.5	0.813648	0.25	113531.0	1.627296	Y
5	IC 410-250058/4	1.0	1.531383	0.25	113324.0	1.531383	Y
6	IC 410-250058/3	2.5	3.691148	0.25	109109.0	1.476459	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

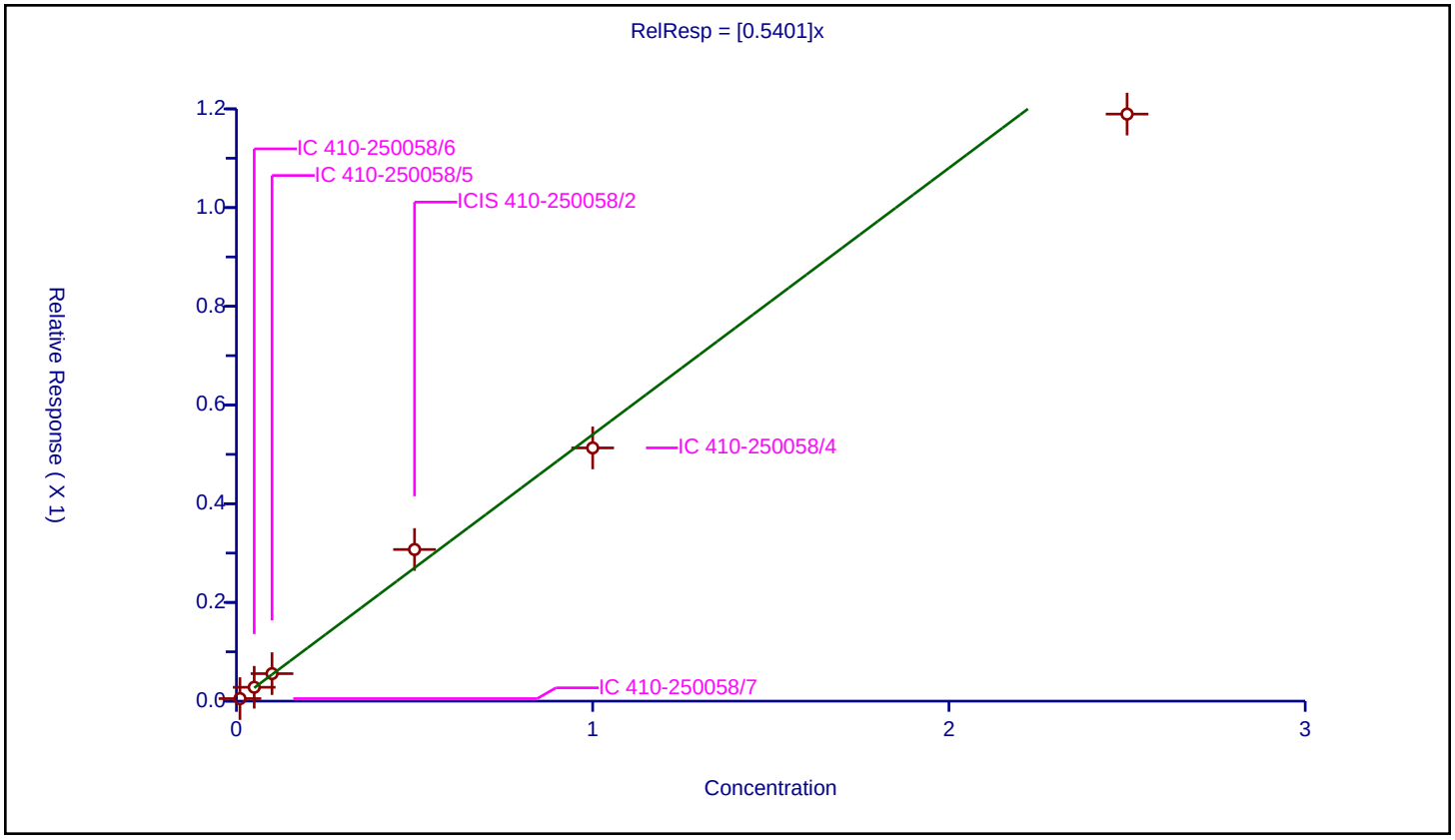
Curve Coefficients

Intercept:	0
Slope:	0.5401

Error Coefficients

Standard Error:	431000
Relative Standard Error:	8.9
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-250058/7	0.01	0.005178	0.25	193847.0	0.517805	Y
2	IC 410-250058/6	0.05	0.028105	0.25	199202.0	0.562093	Y
3	IC 410-250058/5	0.1	0.055732	0.25	202324.0	0.557324	Y
4	ICIS 410-250058/2	0.5	0.307266	0.25	179500.0	0.614532	Y
5	IC 410-250058/4	1.0	0.513095	0.25	182146.0	0.513095	Y
6	IC 410-250058/3	2.5	1.189479	0.25	180318.0	0.475792	Y



Calibration / Hexachlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

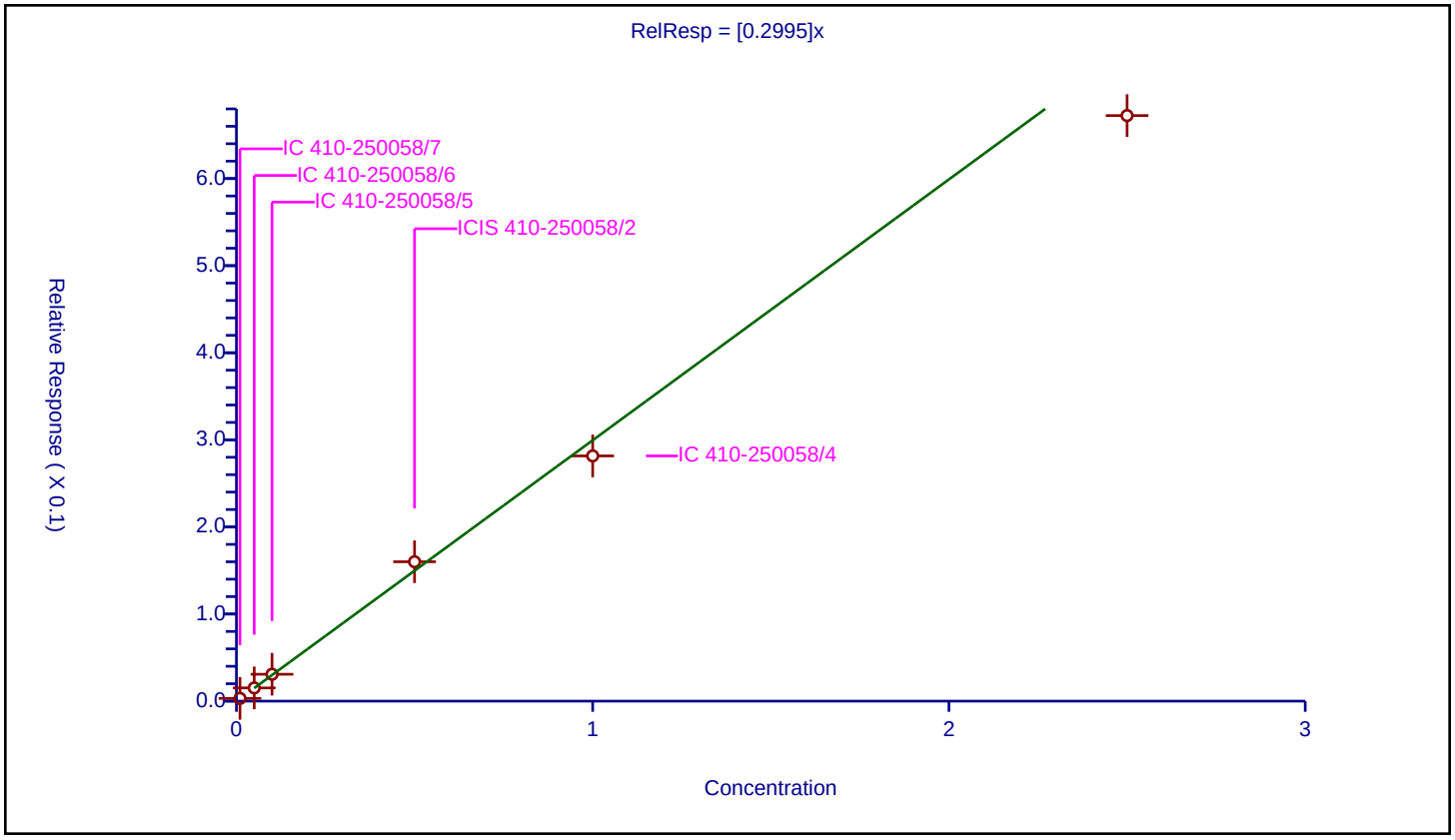
Curve Coefficients

Intercept:	0
Slope:	0.2995

Error Coefficients

Standard Error:	241000
Relative Standard Error:	6.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-250058/7	0.01	0.003142	0.25	193847.0	0.314165	Y
2	IC 410-250058/6	0.05	0.015178	0.25	199202.0	0.303561	Y
3	IC 410-250058/5	0.1	0.030885	0.25	202324.0	0.308849	Y
4	ICIS 410-250058/2	0.5	0.160029	0.25	179500.0	0.320058	Y
5	IC 410-250058/4	1.0	0.281571	0.25	182146.0	0.281571	Y
6	IC 410-250058/3	2.5	0.672332	0.25	180318.0	0.268933	Y



Calibration / Phenanthrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

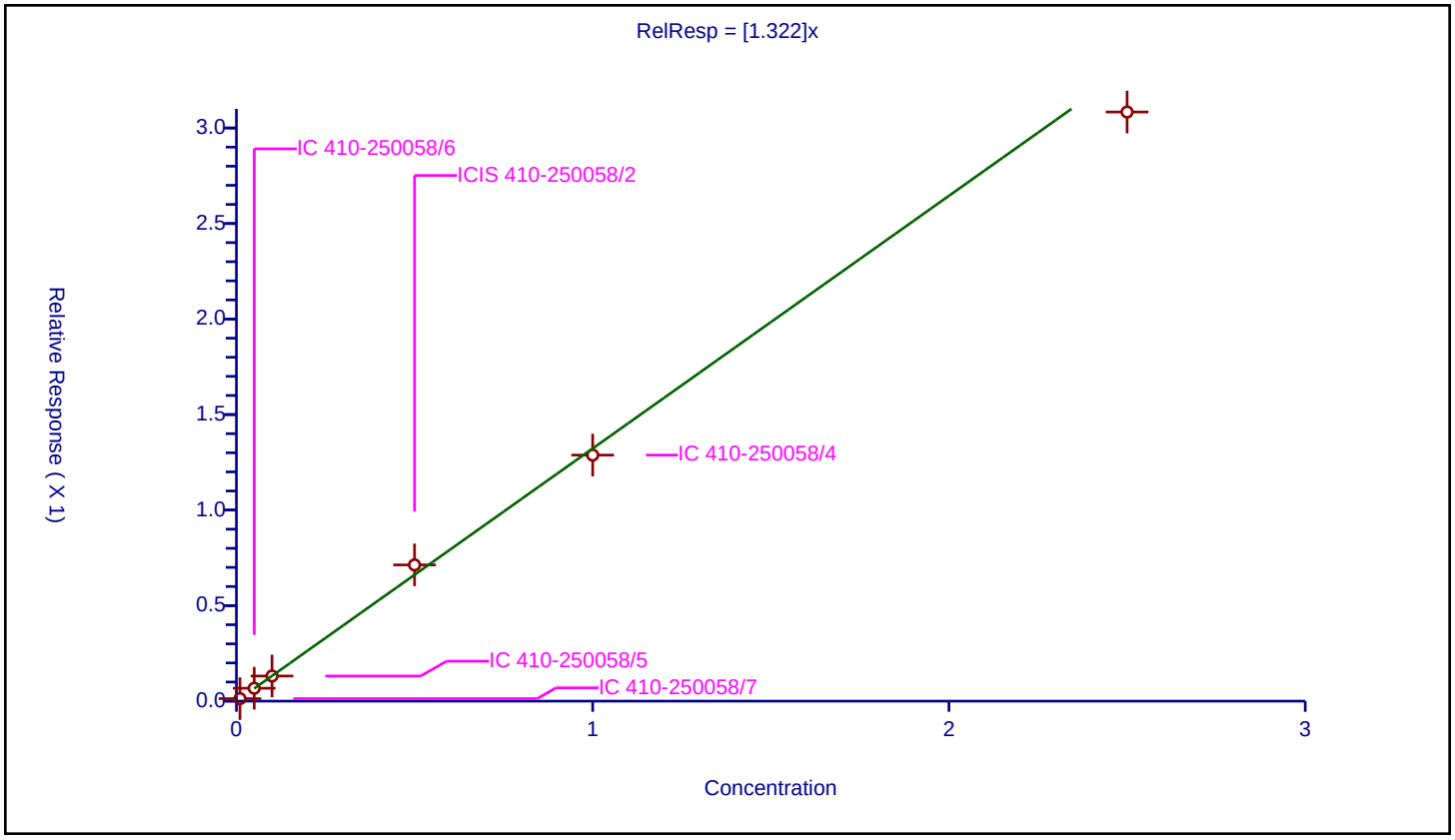
Curve Coefficients

Intercept:	0
Slope:	1.322

Error Coefficients

Standard Error:	1100000
Relative Standard Error:	4.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-250058/7	0.01	0.013219	0.25	193847.0	1.321919	Y
2	IC 410-250058/6	0.05	0.067511	0.25	199202.0	1.350212	Y
3	IC 410-250058/5	0.1	0.131524	0.25	202324.0	1.315242	Y
4	ICIS 410-250058/2	0.5	0.713085	0.25	179500.0	1.42617	Y
5	IC 410-250058/4	1.0	1.287893	0.25	182146.0	1.287893	Y
6	IC 410-250058/3	2.5	3.083731	0.25	180318.0	1.233492	Y



Calibration / Anthracene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

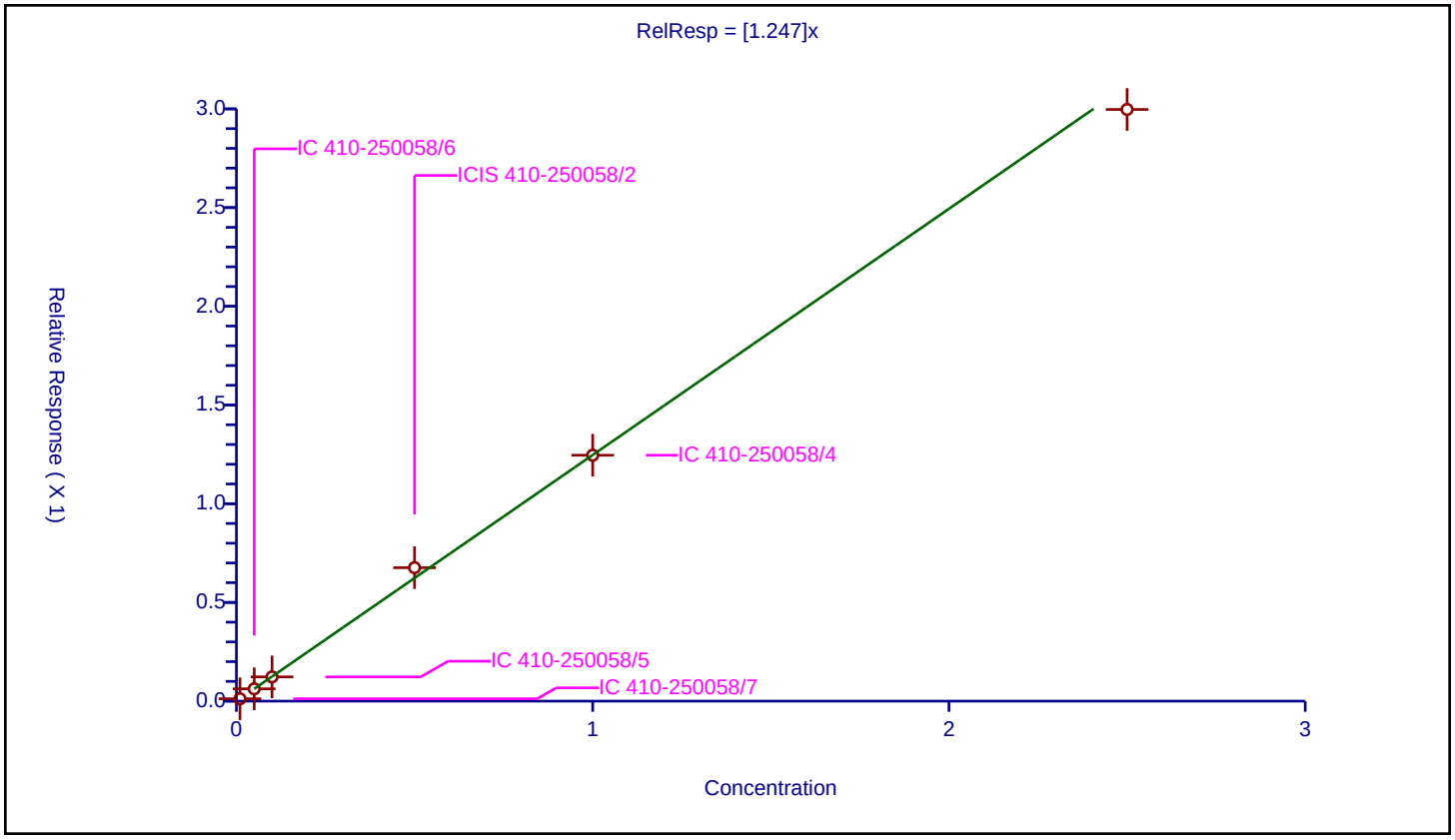
Curve Coefficients

Intercept:	0
Slope:	1.247

Error Coefficients

Standard Error:	1070000
Relative Standard Error:	4.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-250058/7	0.01	0.012089	0.25	193847.0	1.208943	Y
2	IC 410-250058/6	0.05	0.062399	0.25	199202.0	1.247979	Y
3	IC 410-250058/5	0.1	0.122823	0.25	202324.0	1.228228	Y
4	ICIS 410-250058/2	0.5	0.675997	0.25	179500.0	1.351994	Y
5	IC 410-250058/4	1.0	1.245696	0.25	182146.0	1.245696	Y
6	IC 410-250058/3	2.5	2.997048	0.25	180318.0	1.198819	Y



Calibration / Di-n-butyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

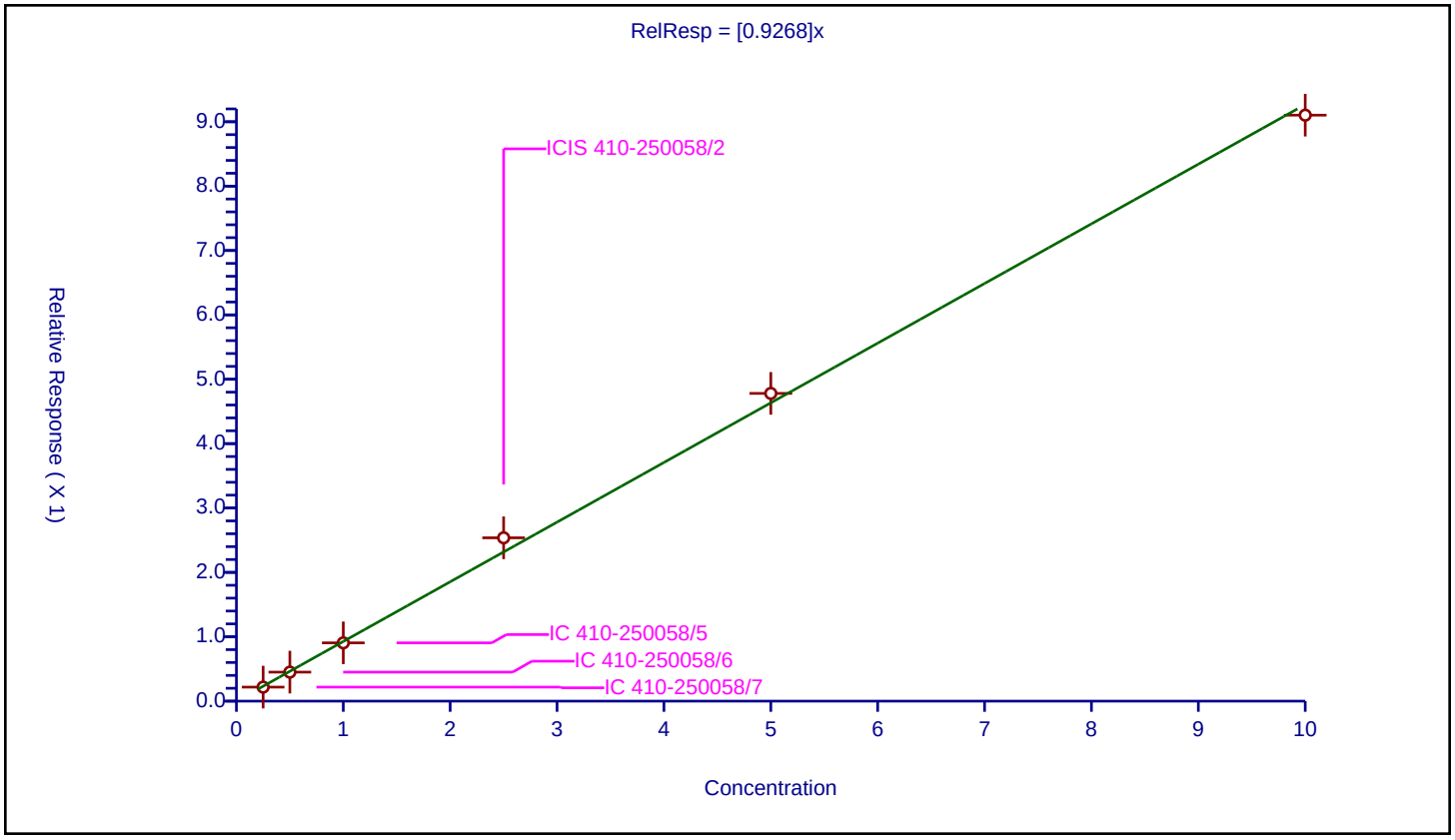
Curve Coefficients

Intercept:	0
Slope:	0.9268

Error Coefficients

Standard Error:	3440000
Relative Standard Error:	5.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-250058/7	0.25	0.217989	0.25	193847.0	0.871956	Y
2	IC 410-250058/6	0.5	0.45093	0.25	199202.0	0.901861	Y
3	IC 410-250058/5	1.0	0.905528	0.25	202324.0	0.905528	Y
4	ICIS 410-250058/2	2.5	2.53716	0.25	179500.0	1.014864	Y
5	IC 410-250058/4	5.0	4.780668	0.25	182146.0	0.956134	Y
6	IC 410-250058/3	10.0	9.102759	0.25	180318.0	0.910276	Y



Calibration / Fluoranthene-d10 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

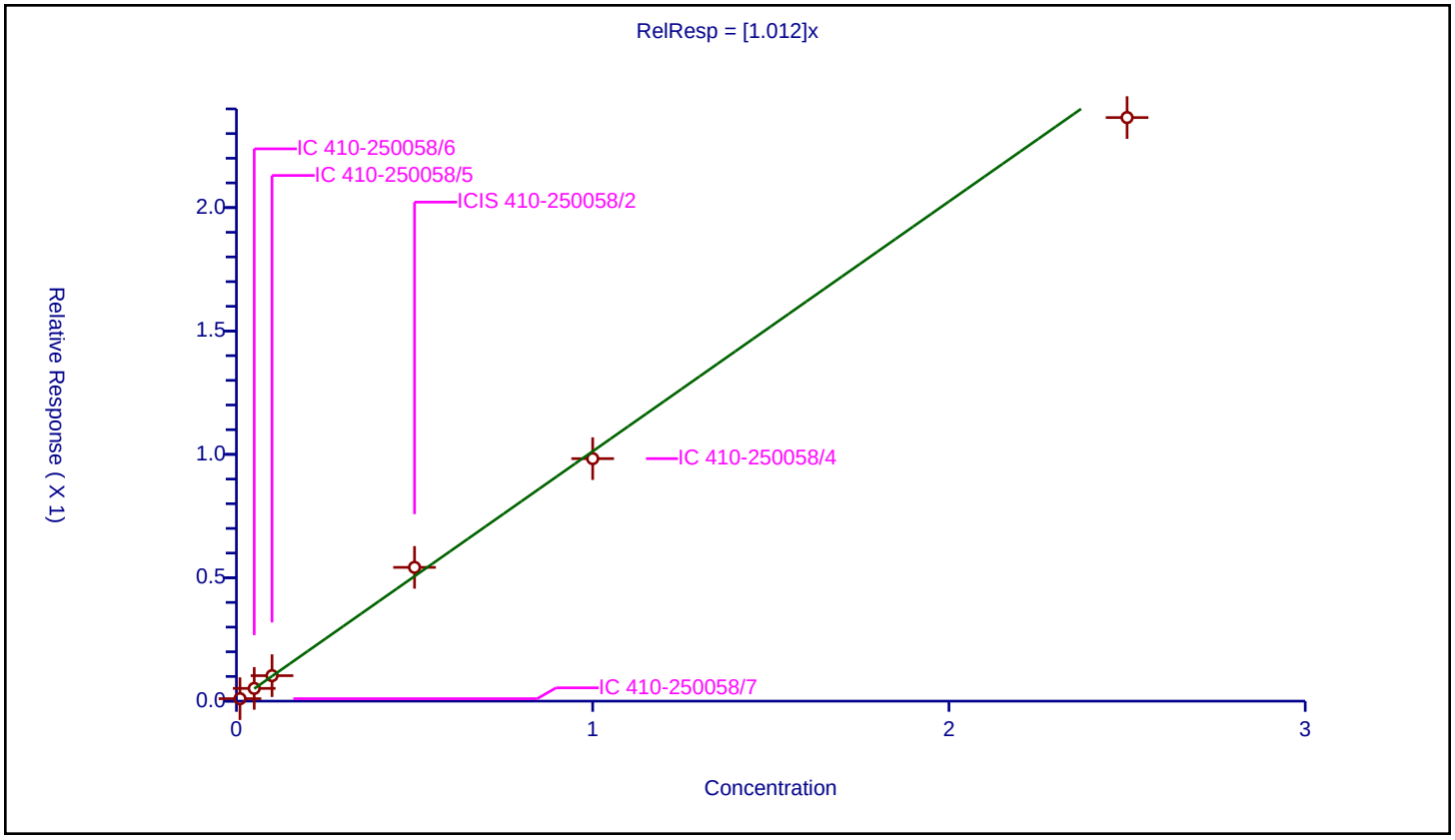
Curve Coefficients

Intercept:	0
Slope:	1.012

Error Coefficients

Standard Error:	846000
Relative Standard Error:	4.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-250058/7	0.01	0.009968	0.25	193847.0	0.996791	Y
2	IC 410-250058/6	0.05	0.051611	0.25	199202.0	1.032219	Y
3	IC 410-250058/5	0.1	0.103185	0.25	202324.0	1.031847	Y
4	ICIS 410-250058/2	0.5	0.542111	0.25	179500.0	1.084223	Y
5	IC 410-250058/4	1.0	0.98274	0.25	182146.0	0.98274	Y
6	IC 410-250058/3	2.5	2.364846	0.25	180318.0	0.945938	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

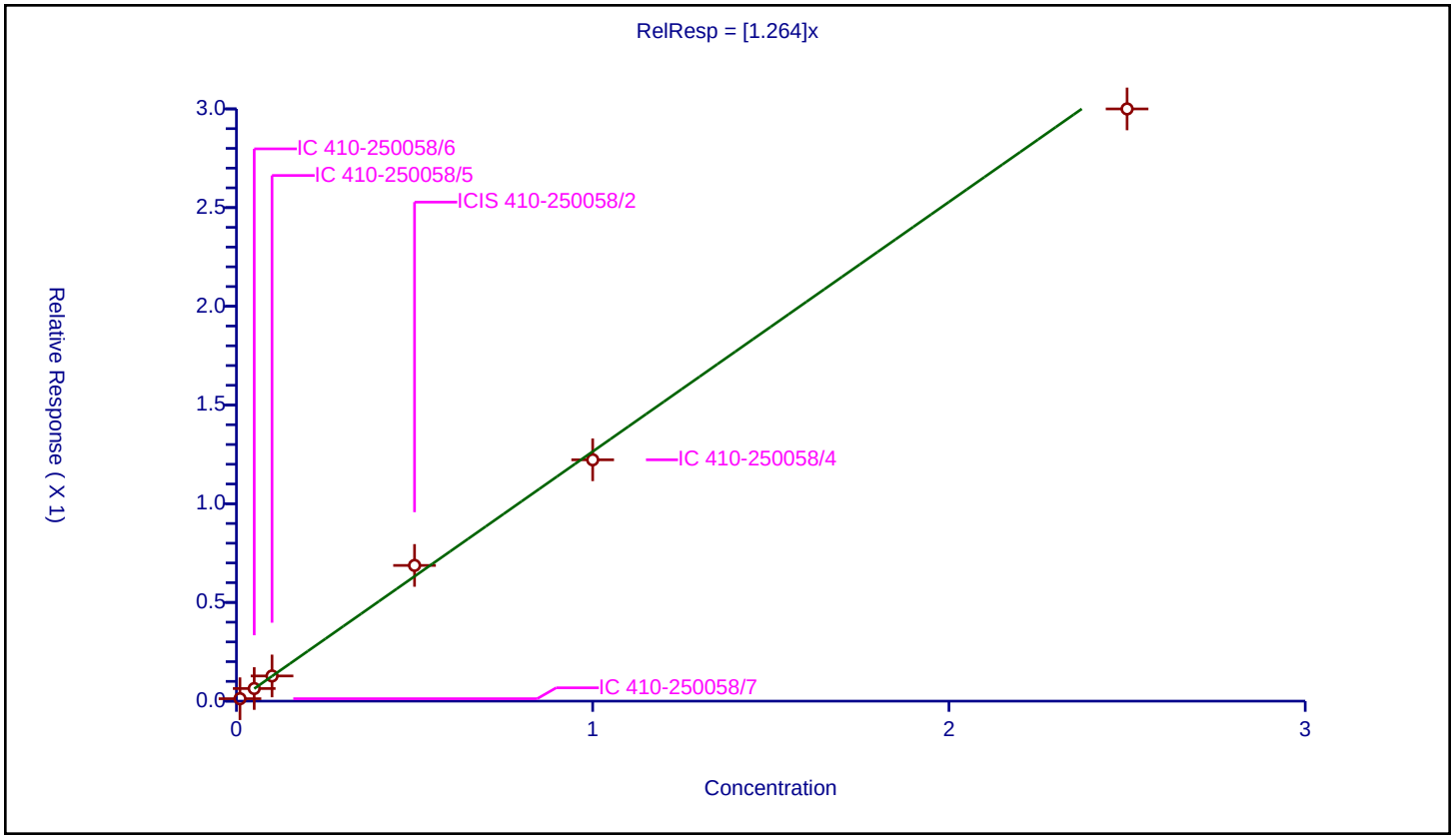
Curve Coefficients

Intercept:	0
Slope:	1.264

Error Coefficients

Standard Error:	1070000
Relative Standard Error:	4.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-250058/7	0.01	0.012354	0.25	193847.0	1.235382	Y
2	IC 410-250058/6	0.05	0.06388	0.25	199202.0	1.277598	Y
3	IC 410-250058/5	0.1	0.127548	0.25	202324.0	1.275479	Y
4	ICIS 410-250058/2	0.5	0.687469	0.25	179500.0	1.374939	Y
5	IC 410-250058/4	1.0	1.222525	0.25	182146.0	1.222525	Y
6	IC 410-250058/3	2.5	2.999906	0.25	180318.0	1.199962	Y



Calibration / Pyrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

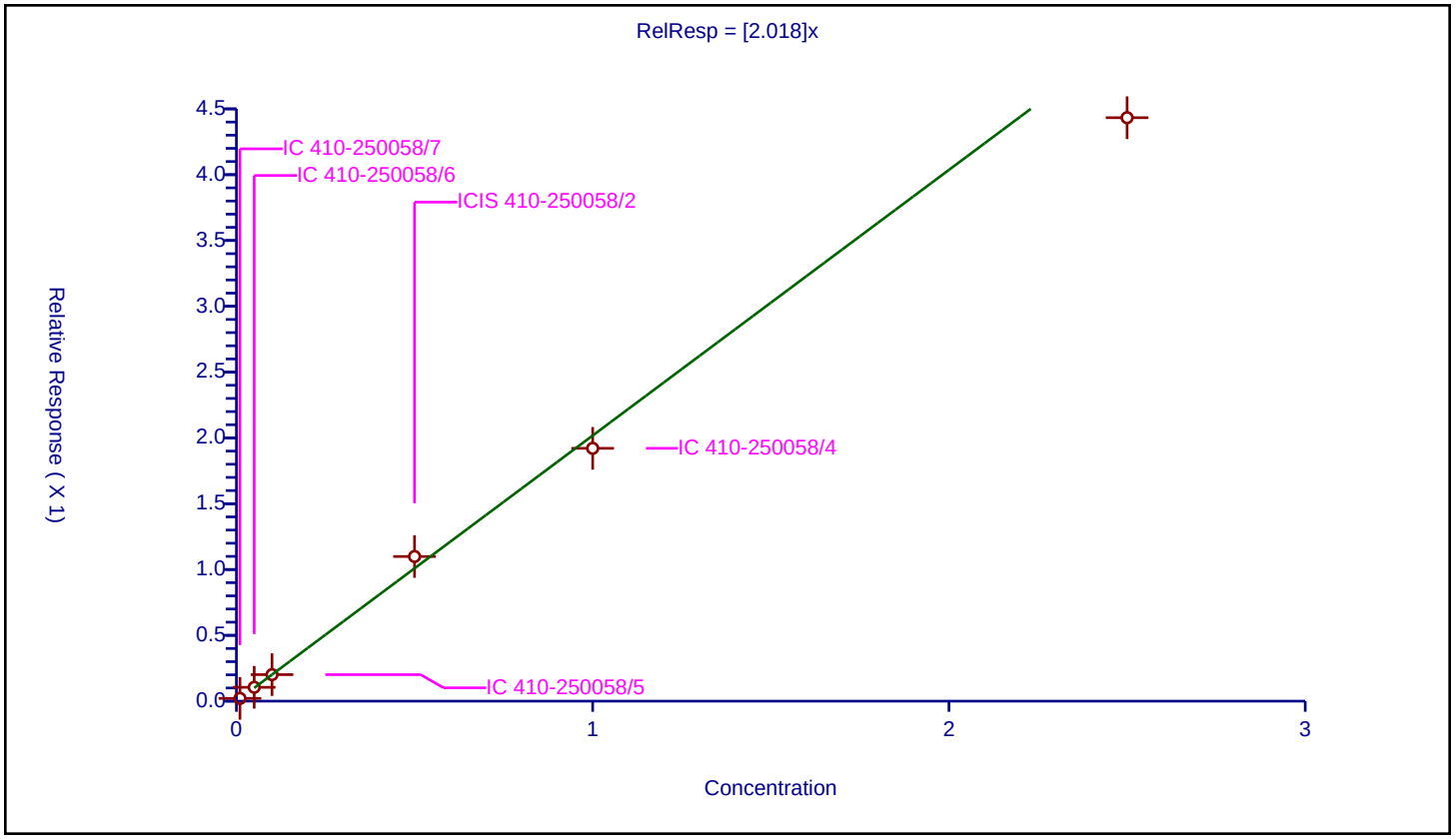
Curve Coefficients

Intercept:	0
Slope:	2.018

Error Coefficients

Standard Error:	1110000
Relative Standard Error:	7.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-250058/7	0.01	0.020986	0.25	120900.0	2.098635	Y
2	IC 410-250058/6	0.05	0.105214	0.25	129059.0	2.10427	Y
3	IC 410-250058/5	0.1	0.20142	0.25	130933.0	2.014198	Y
4	ICIS 410-250058/2	0.5	1.098998	0.25	121833.0	2.197996	Y
5	IC 410-250058/4	1.0	1.920933	0.25	122419.0	1.920933	Y
6	IC 410-250058/3	2.5	4.433034	0.25	126470.0	1.773213	Y



Calibration / Butyl benzyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

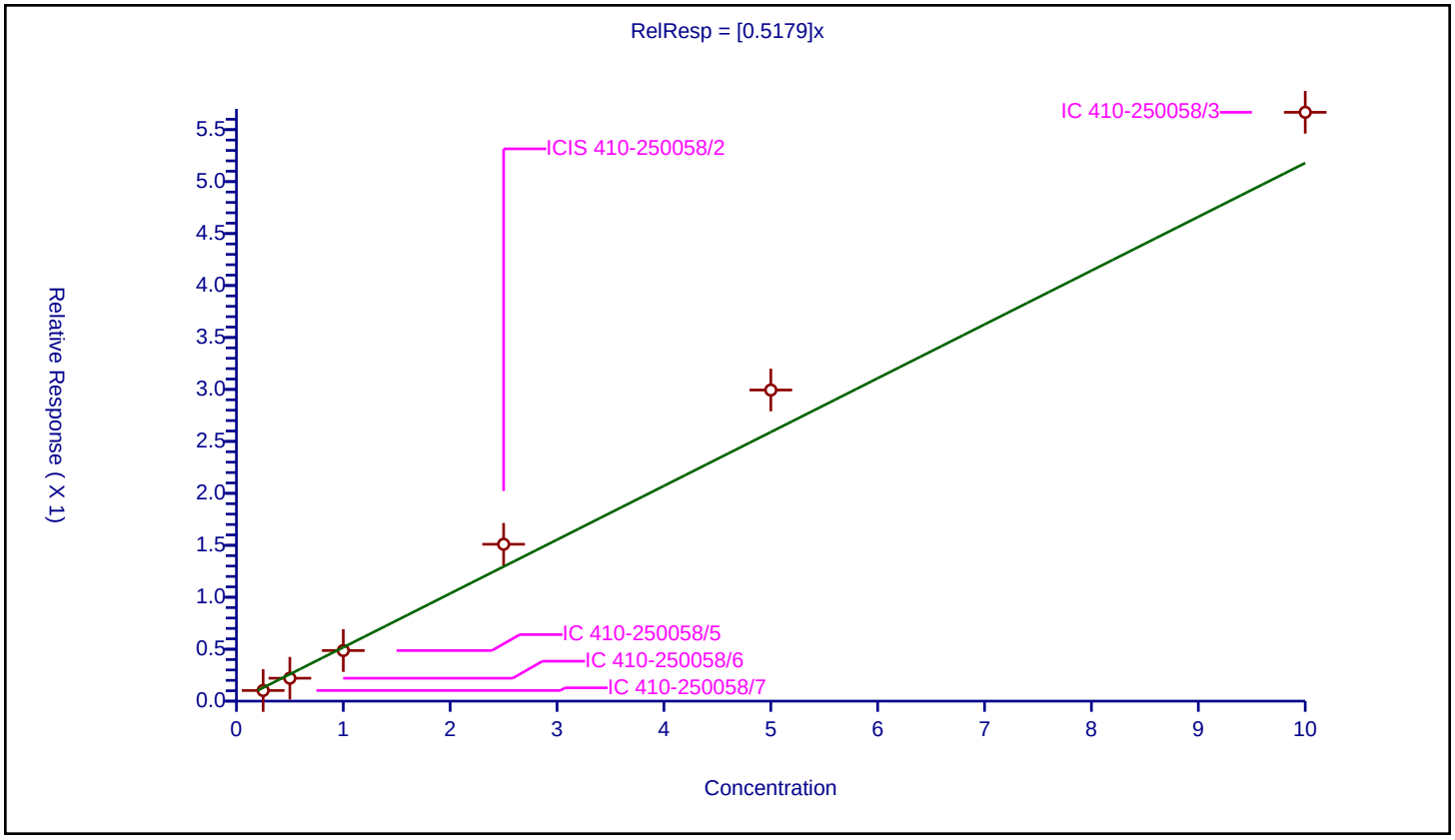
Curve Coefficients

Intercept:	0
Slope:	0.5179

Error Coefficients

Standard Error:	1480000
Relative Standard Error:	16.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.968

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-250058/7	0.25	0.102481	0.25	120900.0	0.409926	Y
2	IC 410-250058/6	0.5	0.220645	0.25	129059.0	0.44129	Y
3	IC 410-250058/5	1.0	0.486852	0.25	130933.0	0.486852	Y
4	ICIS 410-250058/2	2.5	1.509815	0.25	121833.0	0.603926	Y
5	IC 410-250058/4	5.0	2.994251	0.25	122419.0	0.59885	Y
6	IC 410-250058/3	10.0	5.667093	0.25	126470.0	0.566709	Y



Calibration / Benzo[a]anthracene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

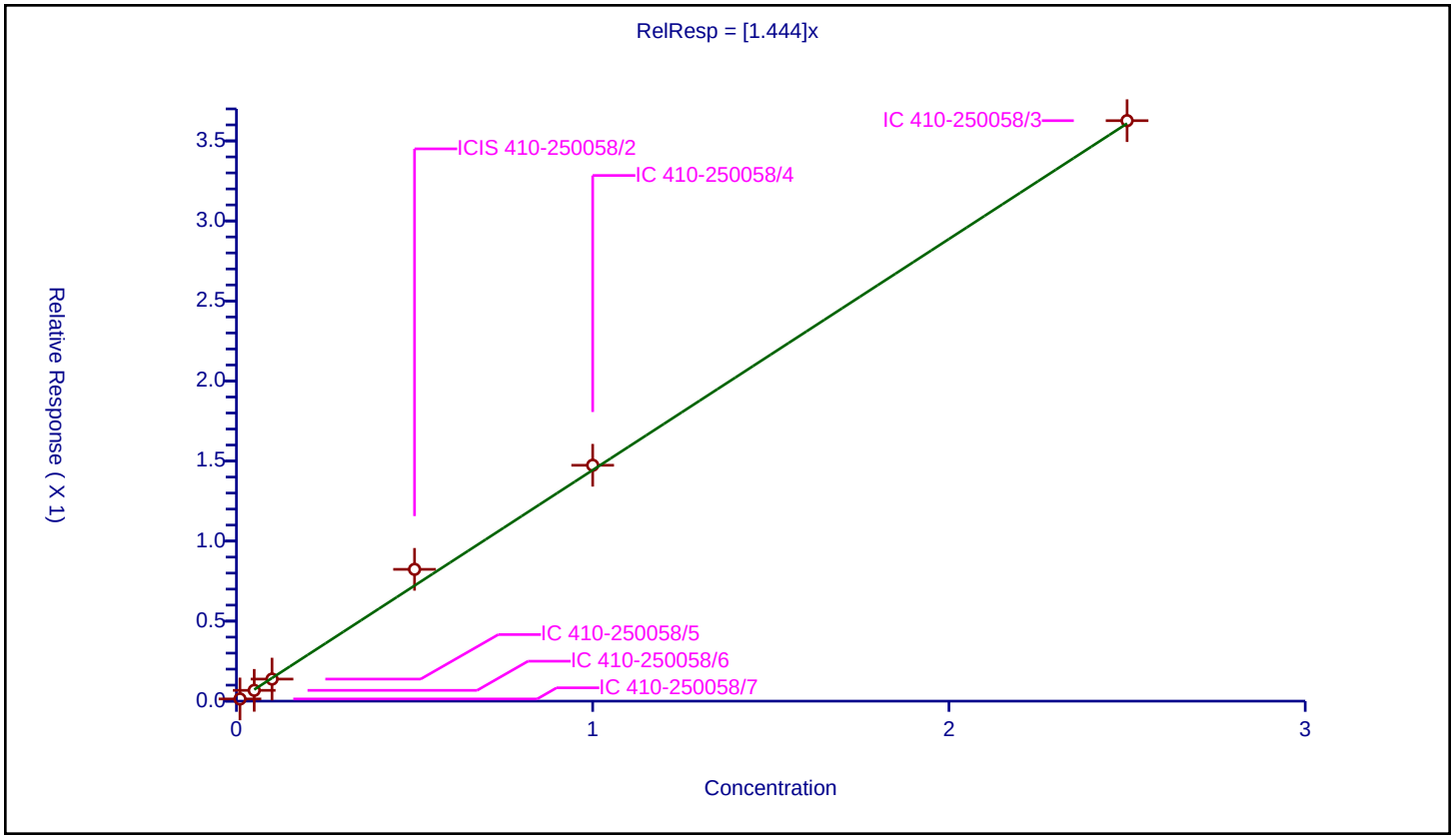
Curve Coefficients

Intercept:	0
Slope:	1.444

Error Coefficients

Standard Error:	900000
Relative Standard Error:	7.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-250058/7	0.01	0.013646	0.25	120900.0	1.364557	Y
2	IC 410-250058/6	0.05	0.067392	0.25	129059.0	1.347833	Y
3	IC 410-250058/5	0.1	0.137803	0.25	130933.0	1.378033	Y
4	ICIS 410-250058/2	0.5	0.82333	0.25	121833.0	1.64666	Y
5	IC 410-250058/4	1.0	1.473713	0.25	122419.0	1.473713	Y
6	IC 410-250058/3	2.5	3.626378	0.25	126470.0	1.450551	Y



Calibration / Chrysene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

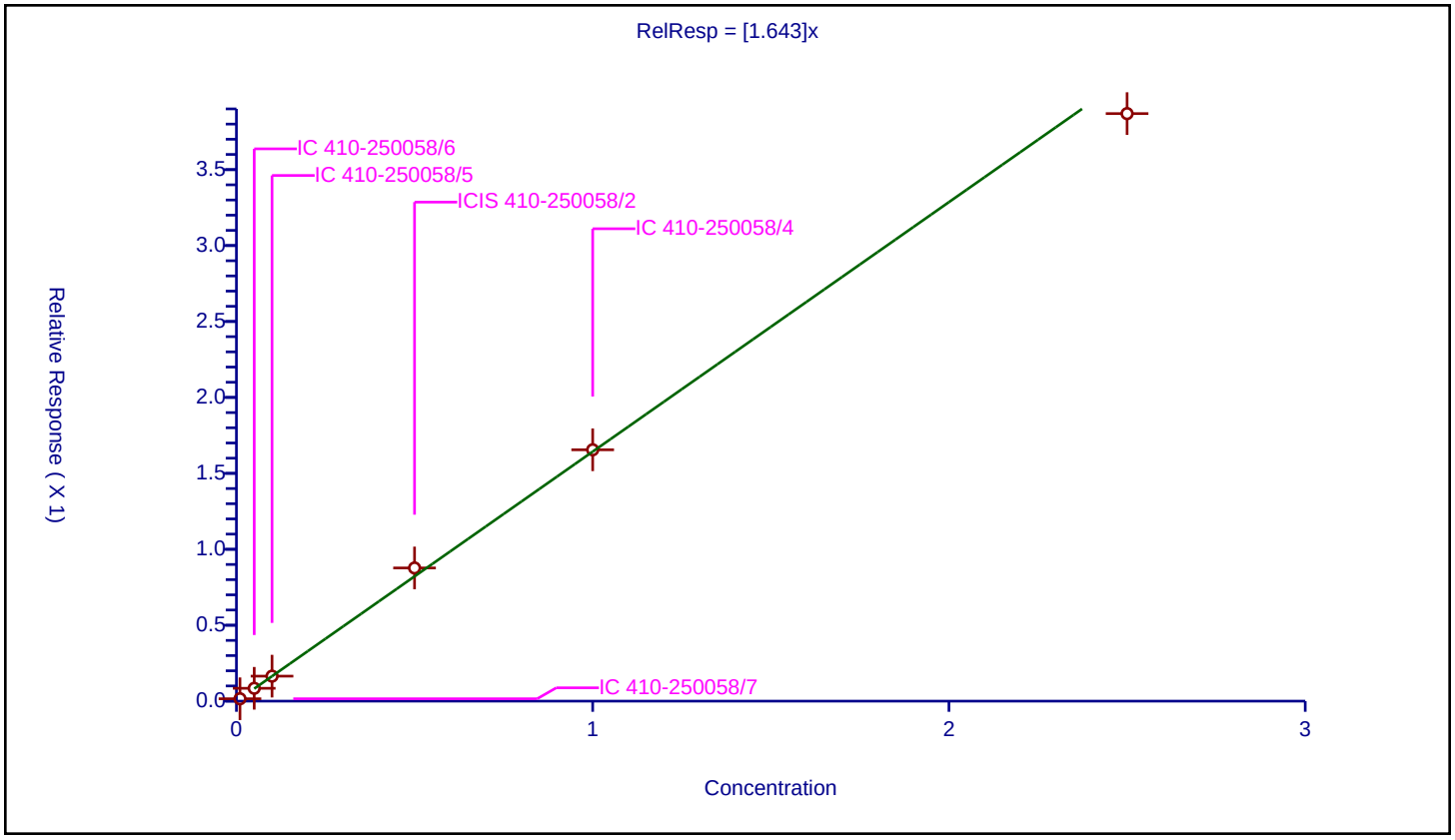
Curve Coefficients

Intercept:	0
Slope:	1.643

Error Coefficients

Standard Error:	967000
Relative Standard Error:	4.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-250058/7	0.01	0.015633	0.25	120900.0	1.563275	Y
2	IC 410-250058/6	0.05	0.084566	0.25	129059.0	1.691319	Y
3	IC 410-250058/5	0.1	0.164683	0.25	130933.0	1.646835	Y
4	ICIS 410-250058/2	0.5	0.877002	0.25	121833.0	1.754003	Y
5	IC 410-250058/4	1.0	1.65517	0.25	122419.0	1.65517	Y
6	IC 410-250058/3	2.5	3.869008	0.25	126470.0	1.547603	Y



Calibration / Bis(2-ethylhexyl) phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

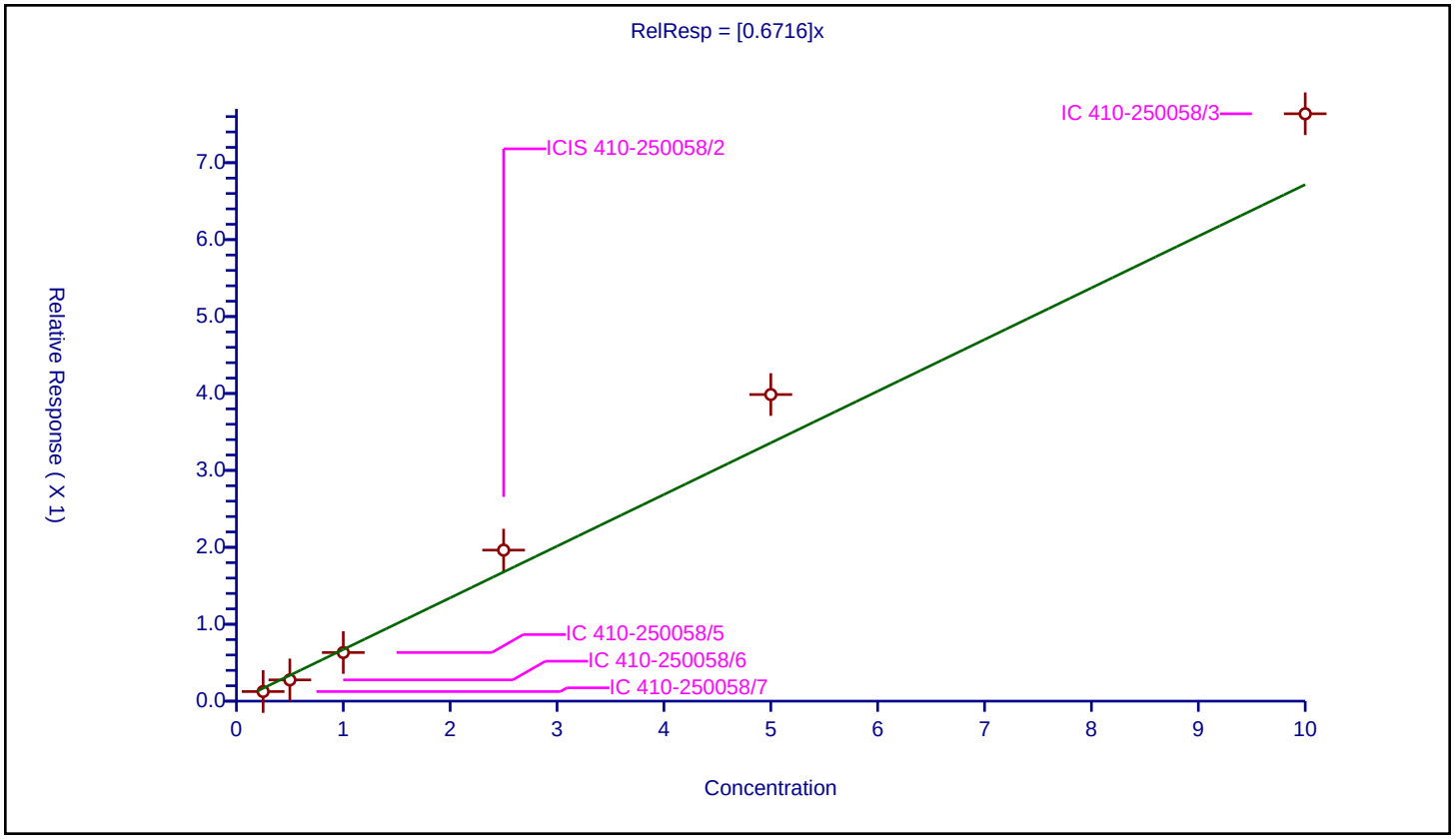
Curve Coefficients

Intercept:	0
Slope:	0.6716

Error Coefficients

Standard Error:	1990000
Relative Standard Error:	19.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.957

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-250058/7	0.25	0.124729	0.25	120900.0	0.498916	Y
2	IC 410-250058/6	0.5	0.27613	0.25	129059.0	0.552259	Y
3	IC 410-250058/5	1.0	0.632043	0.25	130933.0	0.632043	Y
4	ICIS 410-250058/2	2.5	1.963651	0.25	121833.0	0.78546	Y
5	IC 410-250058/4	5.0	3.98623	0.25	122419.0	0.797246	Y
6	IC 410-250058/3	10.0	7.636457	0.25	126470.0	0.763646	Y



Calibration / Di-n-octyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

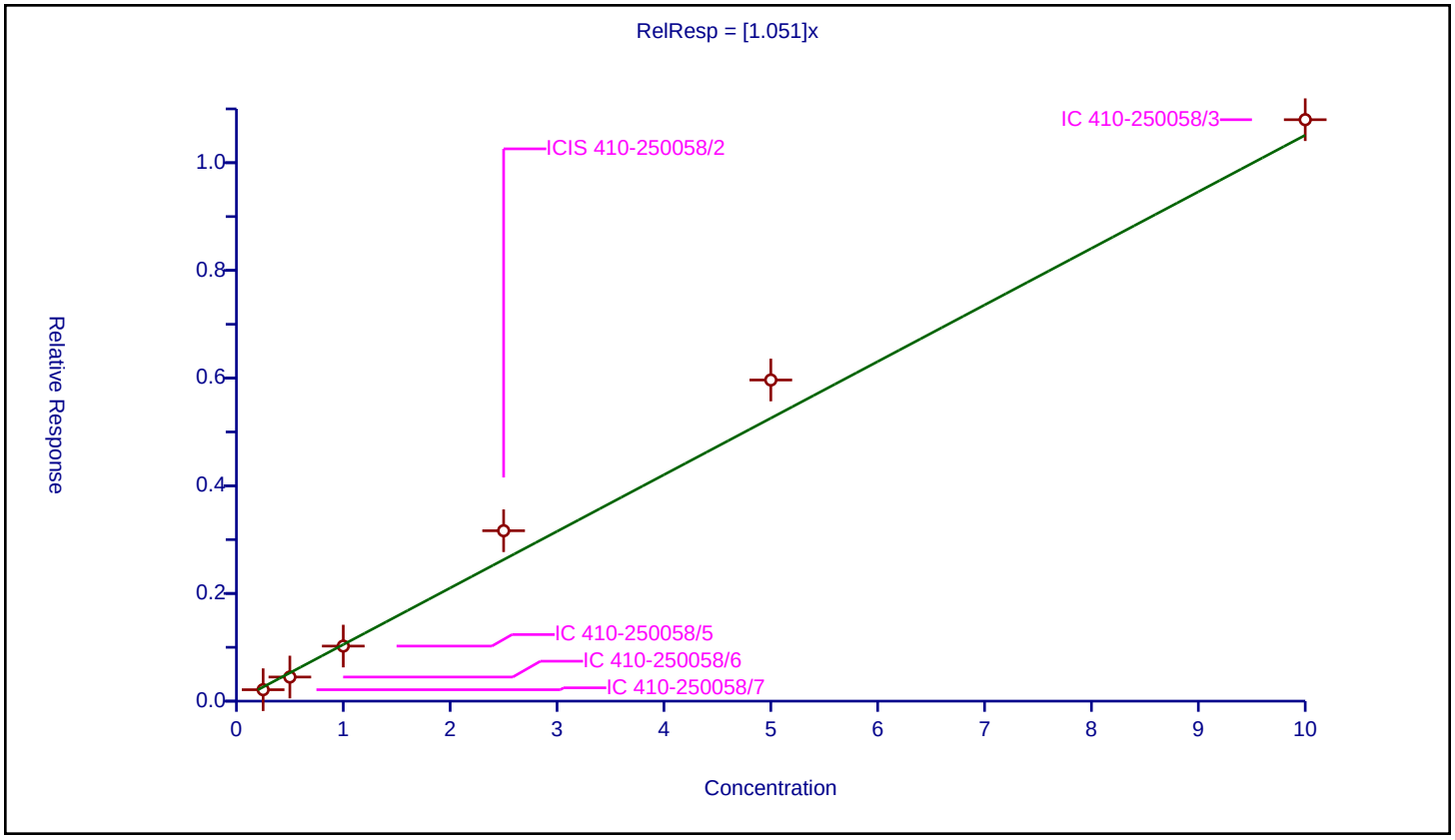
Curve Coefficients

Intercept:	0
Slope:	1.051

Error Coefficients

Standard Error:	3300000
Relative Standard Error:	15.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.970

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-250058/7	0.25	0.212522	0.25	105556.0	0.850089	Y
2	IC 410-250058/6	0.5	0.447756	0.25	114821.0	0.895511	Y
3	IC 410-250058/5	1.0	1.022576	0.25	120414.0	1.022576	Y
4	ICIS 410-250058/2	2.5	3.165073	0.25	122702.0	1.266029	Y
5	IC 410-250058/4	5.0	5.96466	0.25	134197.0	1.192932	Y
6	IC 410-250058/3	10.0	10.799204	0.25	149367.0	1.07992	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

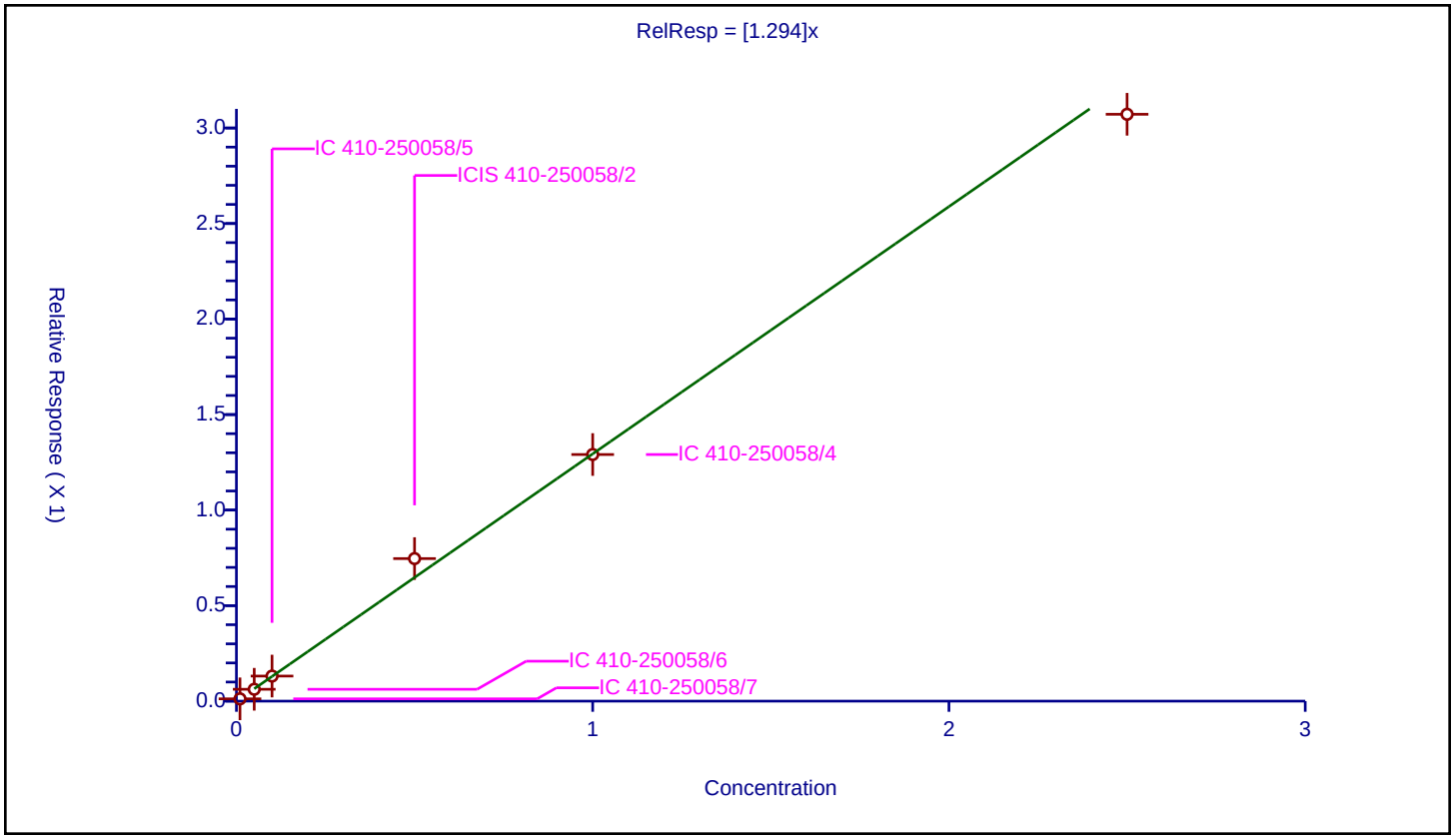
Curve Coefficients

Intercept:	0
Slope:	1.294

Error Coefficients

Standard Error:	893000
Relative Standard Error:	8.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-250058/7	0.01	0.011989	0.25	105556.0	1.19889	Y
2	IC 410-250058/6	0.05	0.062101	0.25	114821.0	1.24202	Y
3	IC 410-250058/5	0.1	0.131299	0.25	120414.0	1.312991	Y
4	ICIS 410-250058/2	0.5	0.746137	0.25	122702.0	1.492274	Y
5	IC 410-250058/4	1.0	1.290865	0.25	134197.0	1.290865	Y
6	IC 410-250058/3	2.5	3.071816	0.25	149367.0	1.228727	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

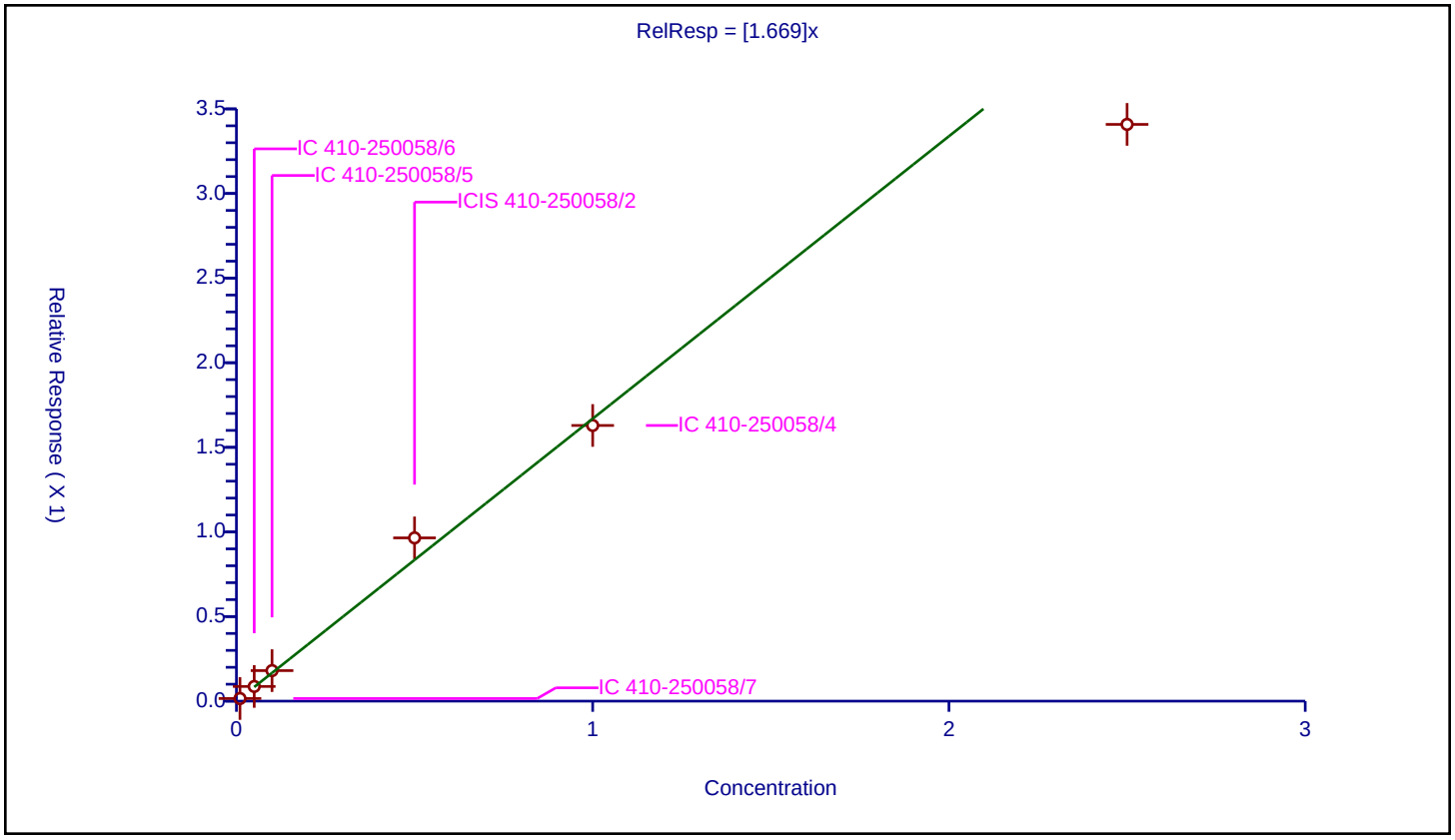
Curve Coefficients

Intercept:	0
Slope:	1.669

Error Coefficients

Standard Error:	1010000
Relative Standard Error:	11.9
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-250058/7	0.01	0.015534	0.25	105556.0	1.553441	Y
2	IC 410-250058/6	0.05	0.086779	0.25	114821.0	1.735571	Y
3	IC 410-250058/5	0.1	0.18039	0.25	120414.0	1.803902	Y
4	ICIS 410-250058/2	0.5	0.964805	0.25	122702.0	1.92961	Y
5	IC 410-250058/4	1.0	1.629157	0.25	134197.0	1.629157	Y
6	IC 410-250058/3	2.5	3.408405	0.25	149367.0	1.363362	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

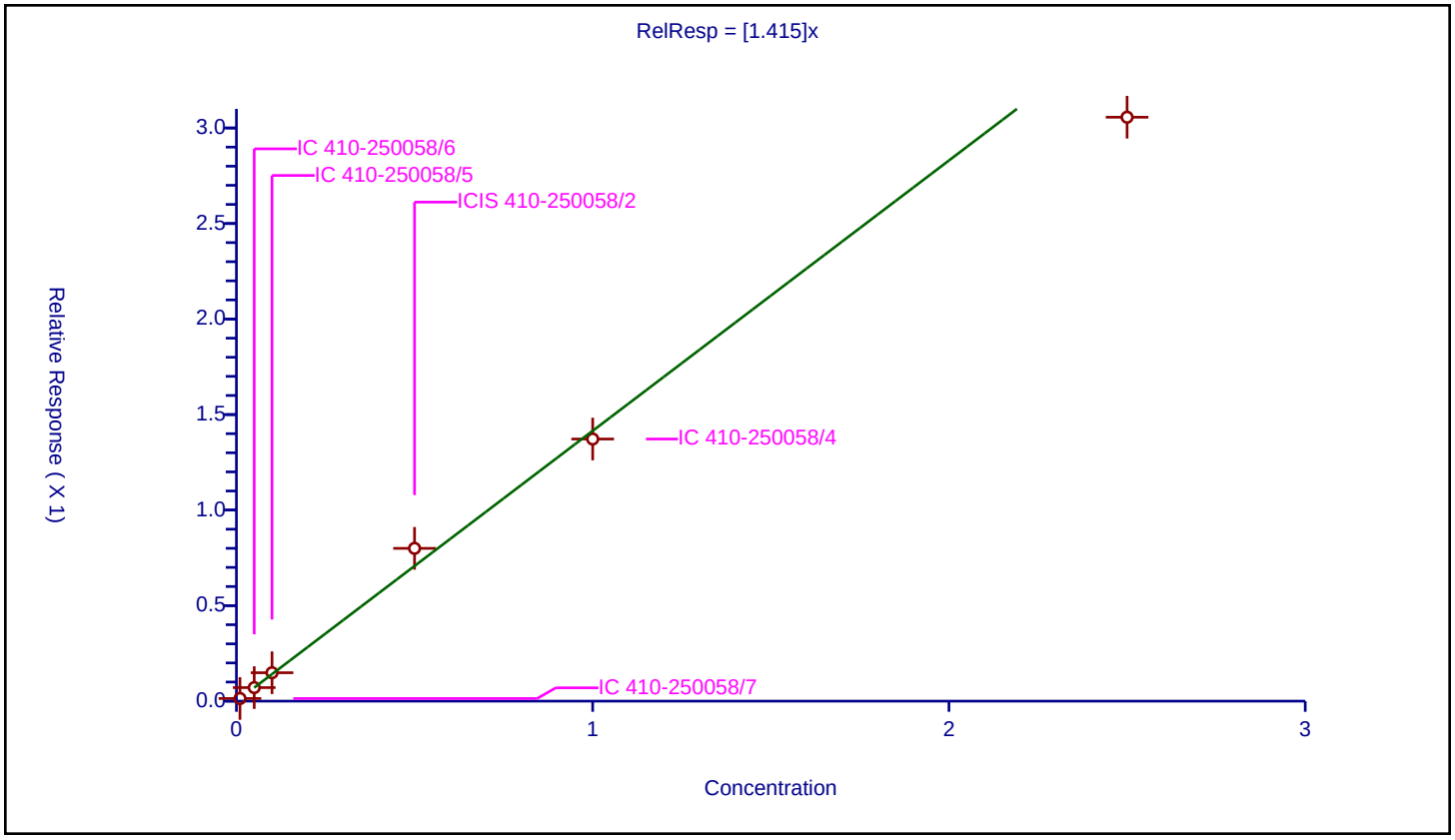
Curve Coefficients

Intercept:	0
Slope:	1.415

Error Coefficients

Standard Error:	899000
Relative Standard Error:	8.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-250058/7	0.01	0.013917	0.25	105556.0	1.391678	Y
2	IC 410-250058/6	0.05	0.070836	0.25	114821.0	1.416727	Y
3	IC 410-250058/5	0.1	0.14872	0.25	120414.0	1.487202	Y
4	ICIS 410-250058/2	0.5	0.799712	0.25	122702.0	1.599424	Y
5	IC 410-250058/4	1.0	1.372054	0.25	134197.0	1.372054	Y
6	IC 410-250058/3	2.5	3.056411	0.25	149367.0	1.222565	Y



Calibration / Benzo(a)pyrene-d12 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

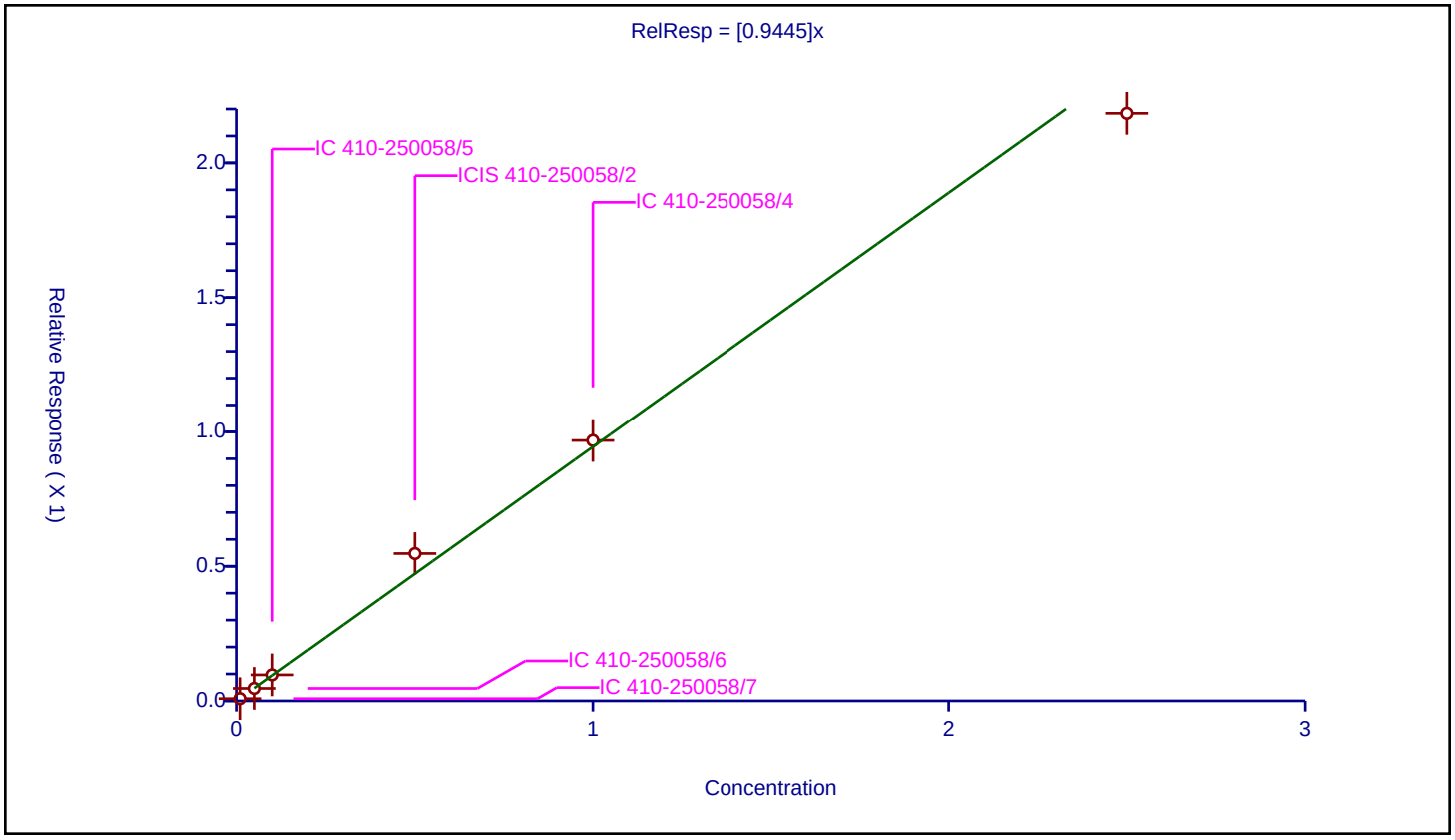
Curve Coefficients

Intercept:	0
Slope:	0.9445

Error Coefficients

Standard Error:	640000
Relative Standard Error:	9.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-250058/7	0.01	0.008368	0.25	105556.0	0.83676	Y
2	IC 410-250058/6	0.05	0.046374	0.25	114821.0	0.927487	Y
3	IC 410-250058/5	0.1	0.096617	0.25	120414.0	0.966167	Y
4	ICIS 410-250058/2	0.5	0.547461	0.25	122702.0	1.094921	Y
5	IC 410-250058/4	1.0	0.968012	0.25	134197.0	0.968012	Y
6	IC 410-250058/3	2.5	2.183958	0.25	149367.0	0.873583	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

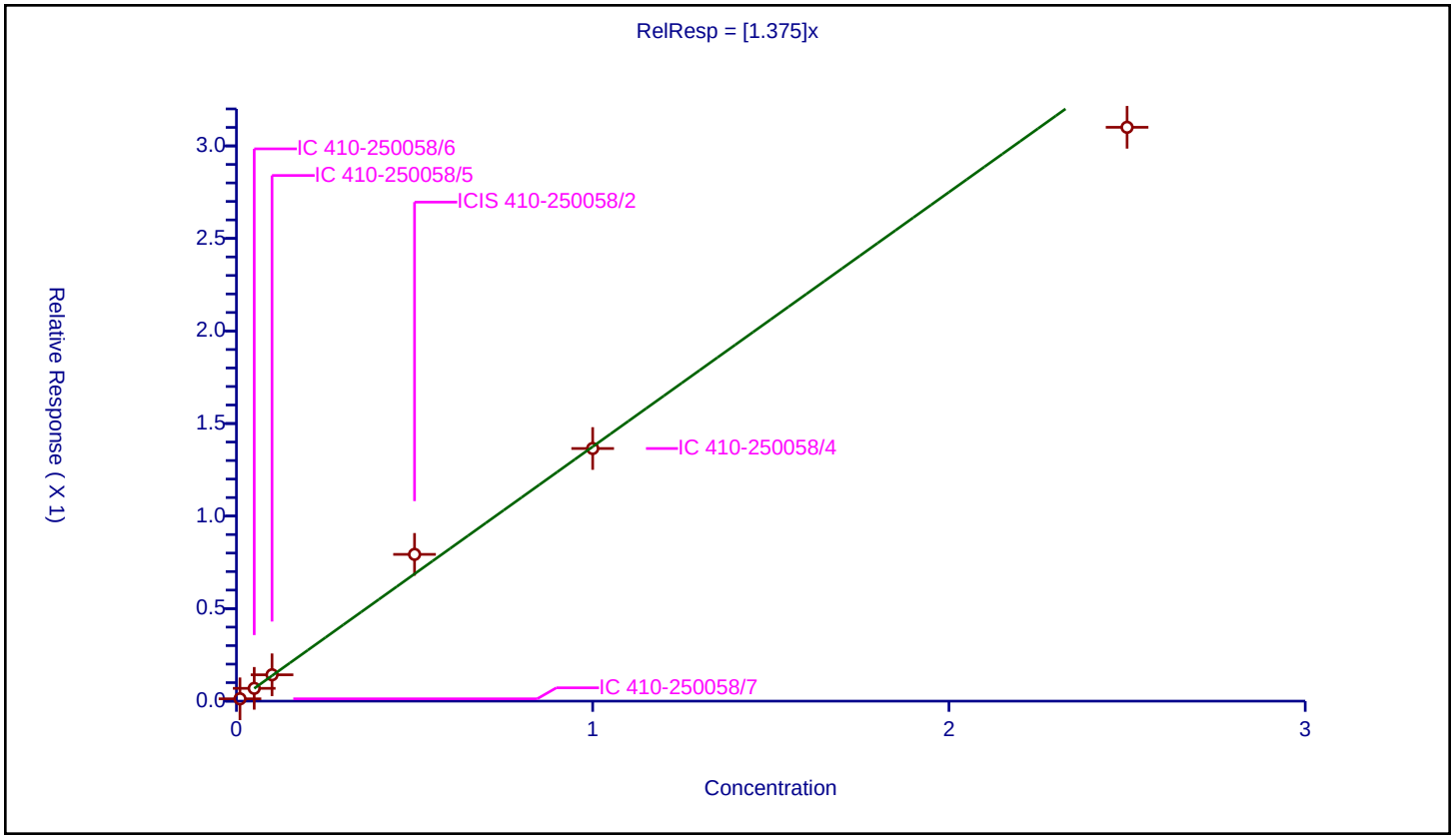
Curve Coefficients

Intercept:	0
Slope:	1.375

Error Coefficients

Standard Error:	908000
Relative Standard Error:	9.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-250058/7	0.01	0.012541	0.25	105556.0	1.254074	Y
2	IC 410-250058/6	0.05	0.069077	0.25	114821.0	1.381542	Y
3	IC 410-250058/5	0.1	0.142326	0.25	120414.0	1.423256	Y
4	ICIS 410-250058/2	0.5	0.792996	0.25	122702.0	1.585993	Y
5	IC 410-250058/4	1.0	1.365085	0.25	134197.0	1.365085	Y
6	IC 410-250058/3	2.5	3.100549	0.25	149367.0	1.24022	Y



Calibration / Perylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

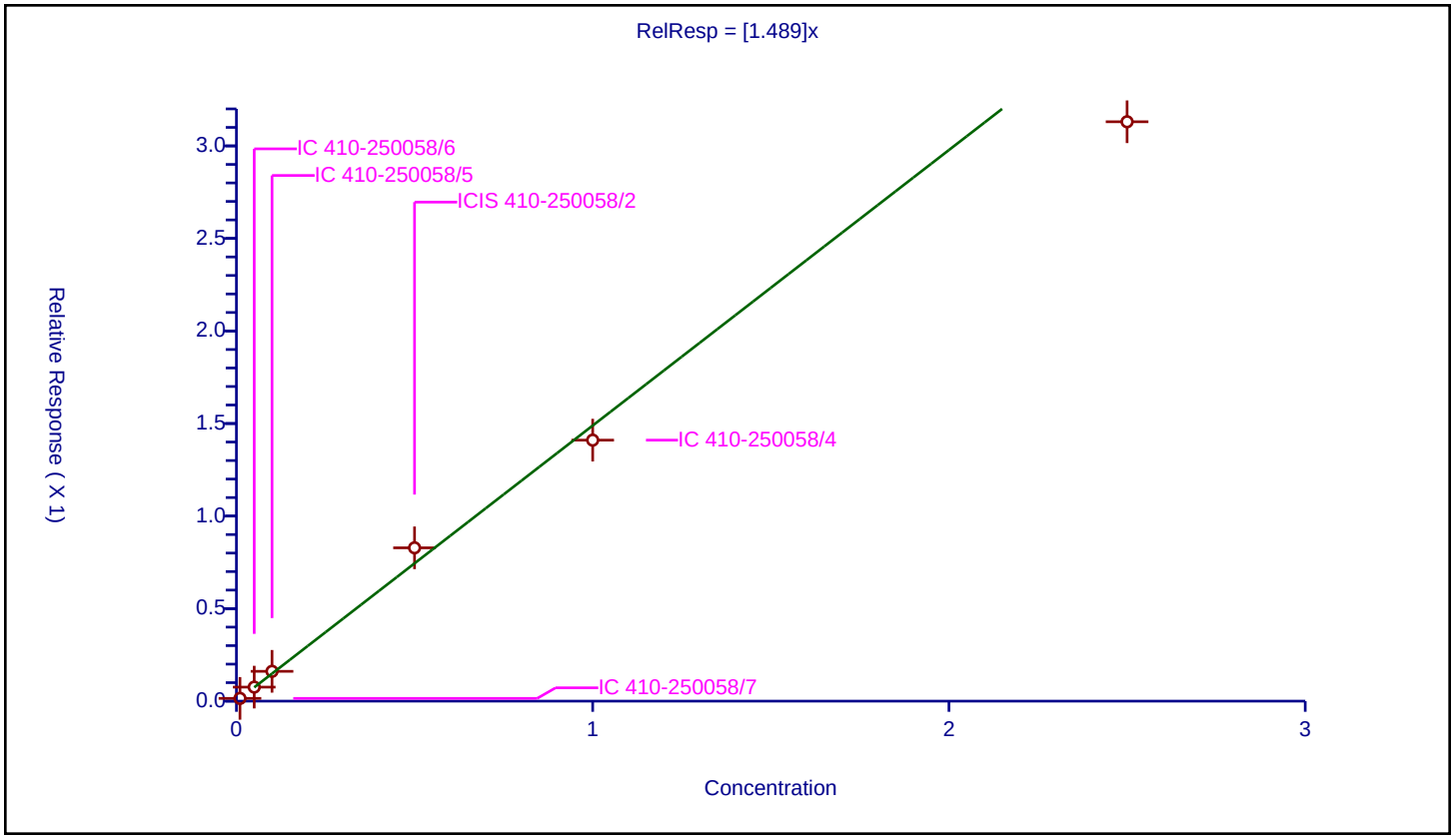
Curve Coefficients

Intercept:	0
Slope:	1.489

Error Coefficients

Standard Error:	921000
Relative Standard Error:	9.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-250058/7	0.01	0.014862	0.25	105556.0	1.486178	Y
2	IC 410-250058/6	0.05	0.075814	0.25	114821.0	1.516273	Y
3	IC 410-250058/5	0.1	0.161148	0.25	120414.0	1.611482	Y
4	ICIS 410-250058/2	0.5	0.828432	0.25	122702.0	1.656864	Y
5	IC 410-250058/4	1.0	1.410279	0.25	134197.0	1.410279	Y
6	IC 410-250058/3	2.5	3.130482	0.25	149367.0	1.252193	Y



Calibration / Indeno[1,2,3-cd]pyrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

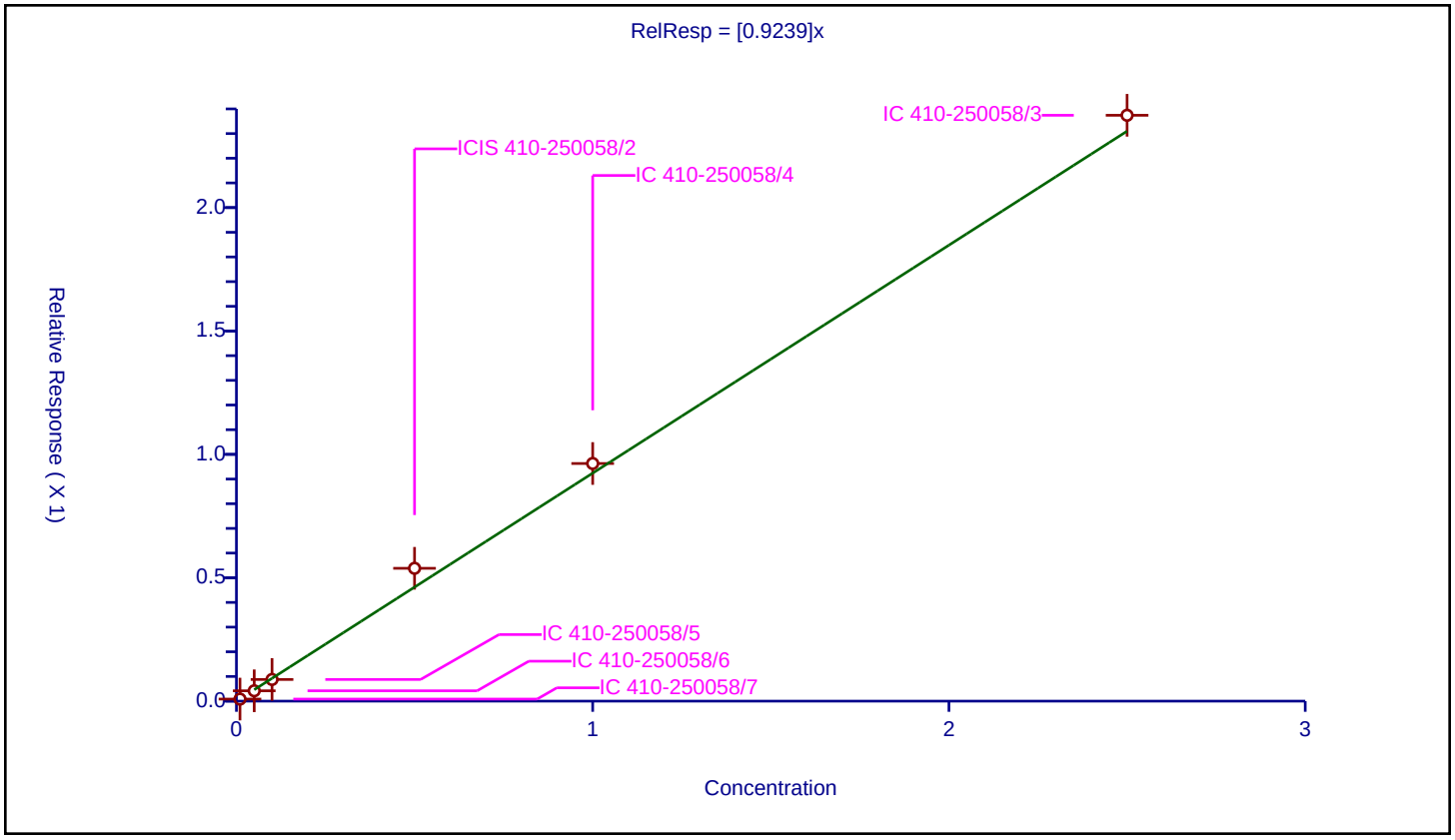
Curve Coefficients

Intercept:	0
Slope:	0.9239

Error Coefficients

Standard Error:	686000
Relative Standard Error:	10.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-250058/7	0.01	0.008382	0.25	105556.0	0.838181	Y
2	IC 410-250058/6	0.05	0.0419	0.25	114821.0	0.838	Y
3	IC 410-250058/5	0.1	0.087795	0.25	120414.0	0.87795	Y
4	ICIS 410-250058/2	0.5	0.53828	0.25	122702.0	1.076559	Y
5	IC 410-250058/4	1.0	0.963032	0.25	134197.0	0.963032	Y
6	IC 410-250058/3	2.5	2.374097	0.25	149367.0	0.949639	Y



Calibration / Dibenz(a,h)anthracene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

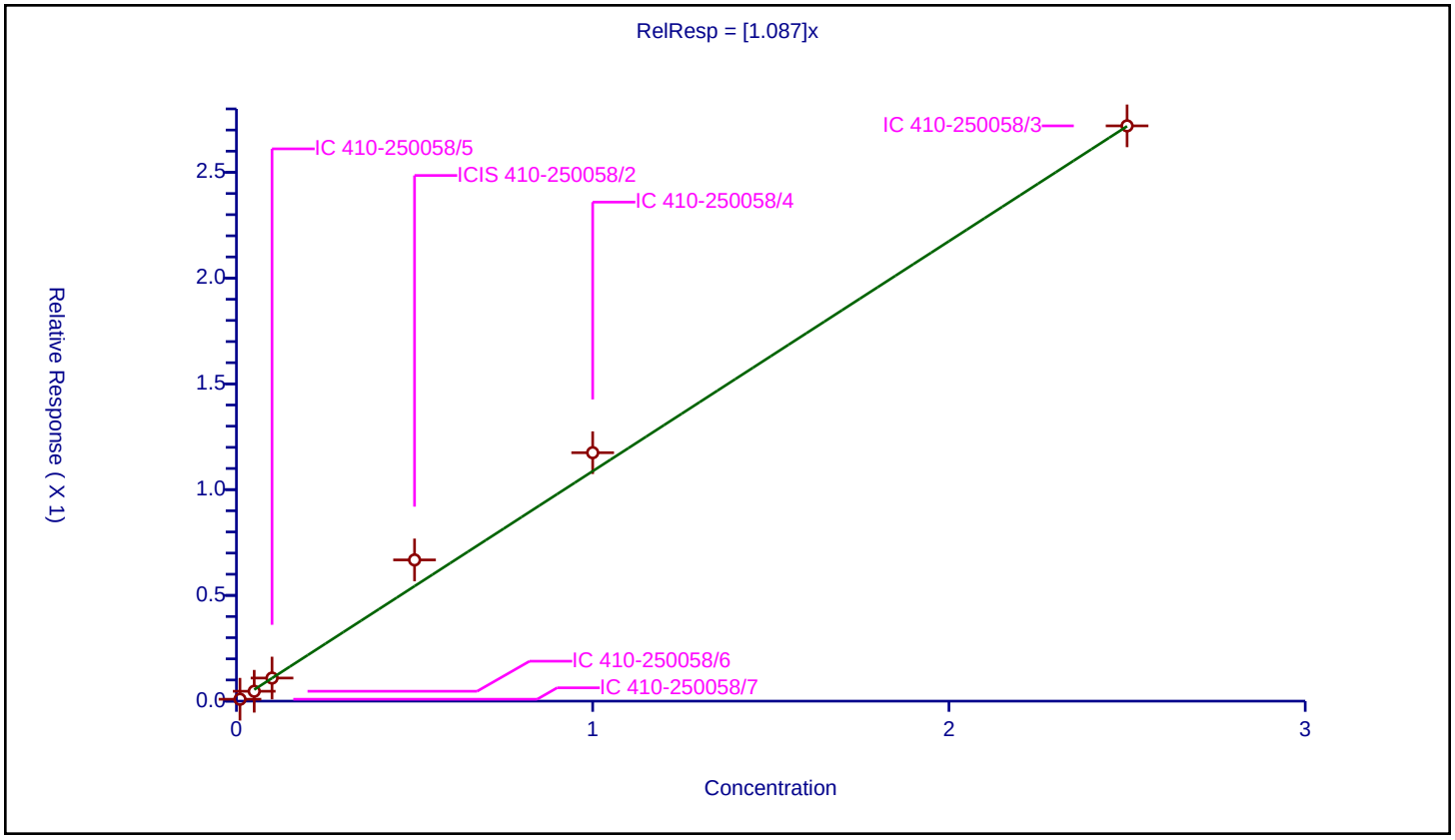
Curve Coefficients

Intercept:	0
Slope:	1.087

Error Coefficients

Standard Error:	794000
Relative Standard Error:	14.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-250058/7	0.01	0.008981	0.25	105556.0	0.898101	Y
2	IC 410-250058/6	0.05	0.046764	0.25	114821.0	0.935282	Y
3	IC 410-250058/5	0.1	0.109213	0.25	120414.0	1.092128	Y
4	ICIS 410-250058/2	0.5	0.667679	0.25	122702.0	1.335357	Y
5	IC 410-250058/4	1.0	1.174581	0.25	134197.0	1.174581	Y
6	IC 410-250058/3	2.5	2.719729	0.25	149367.0	1.087892	Y



Calibration / Benzo[g,h,i]perylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

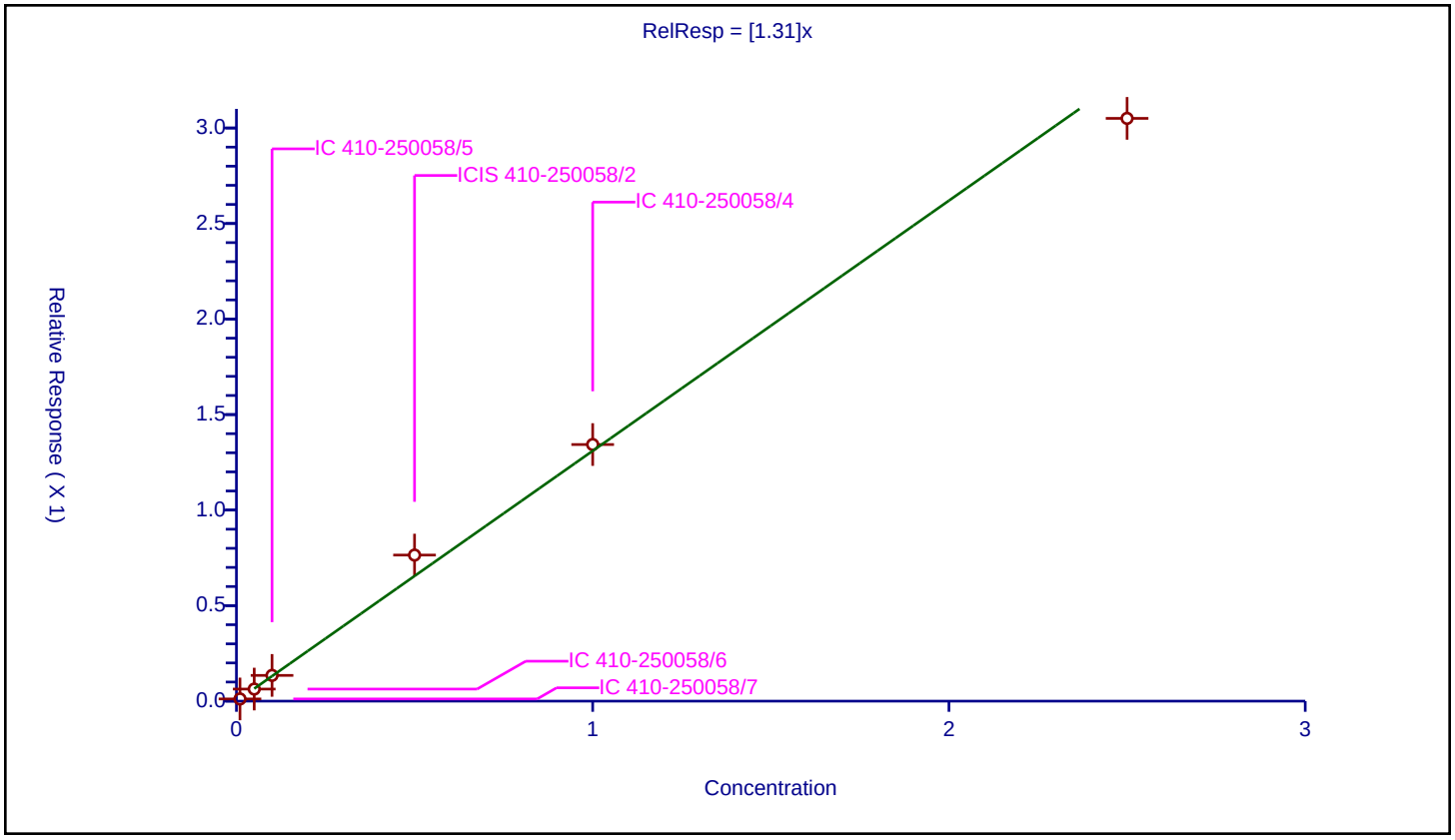
Curve Coefficients

Intercept:	0
Slope:	1.31

Error Coefficients

Standard Error:	893000
Relative Standard Error:	10.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-250058/7	0.01	0.011544	0.25	105556.0	1.154364	Y
2	IC 410-250058/6	0.05	0.063229	0.25	114821.0	1.264577	Y
3	IC 410-250058/5	0.1	0.134804	0.25	120414.0	1.348037	Y
4	ICIS 410-250058/2	0.5	0.7646	0.25	122702.0	1.529201	Y
5	IC 410-250058/4	1.0	1.343156	0.25	134197.0	1.343156	Y
6	IC 410-250058/3	2.5	3.050374	0.25	149367.0	1.22015	Y



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-96269-1

SDG No.:

Lab Sample ID: ICV 410-284284/11 Calibration Date: 08/09/2022 18:56

Instrument ID: HP10623 Calib Start Date: 08/09/2022 15:22

GC Column: Rxi-.5SilMS 30m ID: 0.25(mm) Calib End Date: 08/09/2022 17:46

Lab File ID: CH0910.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.5264	0.5504		1.05	1.00	4.6	30.0
N-Nitrosodimethylamine	Ave	0.6248	0.8473		1.36	1.00	35.6*	30.0
Naphthalene	Ave	1.036	1.089		1.05	1.00	5.0	30.0
2-Methylnaphthalene	Ave	0.6714	0.7004		1.04	1.00	4.3	30.0
1-Methylnaphthalene	Ave	0.6303	0.6482		1.03	1.00	2.8	30.0
Dimethyl phthalate	Ave	1.389	1.445		1.04	1.00	4.1	30.0
Acenaphthylene	Ave	1.948	2.001		1.03	1.00	2.7	30.0
Acenaphthene	Ave	1.193	1.221		1.02	1.00	2.3	30.0
Dibenzofuran	Ave	1.798	1.898		1.06	1.00	5.6	30.0
Diethyl phthalate	Ave	1.421	1.428		1.00	1.00	0.5	30.0
Fluorene	Ave	1.431	1.473		1.03	1.00	2.9	30.0
N-Nitrosodiphenylamine	Ave	0.4891	0.6591		1.15	0.850	34.8*	30.0
Hexachlorobenzene	Ave	0.1918	0.1921		1.00	1.00	0.2	30.0
Phenanthrene	Ave	1.150	1.172		1.02	1.00	1.9	30.0
Anthracene	Ave	1.114	1.150		1.03	1.00	3.2	30.0
Di-n-butyl phthalate	Ave	1.095	1.001		0.914	1.00	-8.6	30.0
Fluoranthene	Ave	1.275	1.253		0.982	1.00	-1.8	30.0
Pyrene	Ave	1.517	1.522		1.00	1.00	0.4	30.0
Butyl benzyl phthalate	Qua1		0.2299		0.784	1.00	-21.6	30.0
Benzo[a]anthracene	Ave	1.365	1.317		0.965	1.00	-3.5	30.0
Chrysene	Ave	1.399	1.419		1.01	1.00	1.4	30.0
Bis(2-ethylhexyl) phthalate	Qua1		0.3829		0.765	1.00	-23.5	30.0
Di-n-octyl phthalate	Qua1		0.5360		0.733	1.00	-26.7	30.0
Benzo[b]fluoranthene	Ave	1.338	1.381		1.03	1.00	3.2	30.0
Benzo[k]fluoranthene	Ave	1.394	1.493		1.07	1.00	7.1	30.0
Benzo[a]pyrene	Ave	1.248	1.233		0.988	1.00	-1.2	30.0
Indeno[1,2,3-cd]pyrene	Ave	0.9939	1.004		1.01	1.00	1.1	30.0
Dibenz(a,h)anthracene	Ave	1.166	1.180		1.01	1.00	1.2	30.0
Benzo[g,h,i]perylene	Ave	1.205	1.242		1.03	1.00	3.1	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP10623\20220809-63751.b\CH0910.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 09-Aug-2022 18:56:30 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: 410-0063751-011
Operator ID: apb10206 Instrument ID: HP10623
Sublist:

Method: \\chromfs\Lancaster\ChromData\HP10623\20220809-63751.b\8270_SIM_HP10623.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 09-Aug-2022 19:35:39 Calib Date: 09-Aug-2022 17:46:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP10623\20220809-63751.b\CH0907.D

Column 1 : Rxi-.5SilMS 30m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1609

First Level Reviewer: SJ89 Date: 09-Aug-2022 19:24:23

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	1.780	1.797	-0.017	93	18039	1.00	1.05	
	2 N-Nitrosodimethylamine	74	1.968	1.986	-0.018	83	27768	1.00	1.36	
*	4 1,4-Dichlorobenzene-d4	152	4.277	4.283	-0.006	79	32774	1.00	1.00	
*	5 Naphthalene-d8	136	5.491	5.491	0.000	51	129585	1.00	1.00	
	6 Naphthalene	128	5.510	5.510	0.000	96	141063	1.00	1.05	
	8 2-Methylnaphthalene	142	6.162	6.162	0.000	72	90760	1.00	1.04	
	10 1-Methylnaphthalene	142	6.253	6.253	0.000	72	83993	1.00	1.03	
	11 Dimethyl phthalate	163	6.879	6.879	0.000	99	99745	1.00	1.04	
	12 Acenaphthylene	152	7.008	7.015	-0.007	74	138112	1.00	1.03	
*	13 Acenaphthene-d10	164	7.144	7.144	0.000	91	69010	1.00	1.00	
	14 Acenaphthene	154	7.176	7.176	0.000	56	84236	1.00	1.02	
	15 Dibenzofuran	168	7.340	7.340	0.000	96	130971	1.00	1.06	
	16 Diethyl phthalate	149	7.541	7.541	0.000	65	98557	1.00	1.00	
	17 Fluorene	166	7.661	7.661	0.000	89	101630	1.00	1.03	
	18 N-Nitrosodiphenylamine	169	7.769	7.769	0.000	62	74396	0.8500	1.15	
	19 Hexachlorobenzene	284	8.177	8.177	0.000	90	25505	1.00	1.00	
*	20 Phenanthrene-d10	188	8.545	8.545	0.000	95	132785	1.00	1.00	
	21 Phenanthrene	178	8.565	8.565	0.000	87	155590	1.00	1.02	
	22 Anthracene	178	8.619	8.619	0.001	90	152667	1.00	1.03	
	23 Di-n-butyl phthalate	149	9.095	9.095	0.000	80	132963	1.00	0.9142	
	25 Fluoranthene	202	9.691	9.691	0.000	95	166350	1.00	0.9823	
	26 Pyrene	202	9.913	9.913	0.000	99	171780	1.00	1.00	
	27 Butyl benzyl phthalate	149	10.599	10.599	0.000	100	25946	1.00	0.7841	
	28 Benzo[a]anthracene	228	11.238	11.238	0.000	100	148618	1.00	0.9651	
*	29 Chrysene-d12	240	11.252	11.252	0.000	95	112848	1.00	1.00	
	30 Chrysene	228	11.280	11.280	0.000	100	160181	1.00	1.01	
	31 Bis(2-ethylhexyl) phthalate	149	11.301	11.301	0.000	100	43205	1.00	0.7650	
	32 Di-n-octyl phthalate	149	12.186	12.179	0.007	100	53007	1.00	0.7328	
	33 Benzo[b]fluoranthene	252	12.671	12.671	0.000	100	136560	1.00	1.03	
	34 Benzo[k]fluoranthene	252	12.713	12.713	0.000	100	147622	1.00	1.07	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
37 Benzo[a]pyrene	252	13.141	13.141	0.000	100	121942	1.00	0.9881	
* 38 Perylene-d12	264	13.226	13.226	0.000	100	98886	1.00	1.00	
40 Indeno[1,2,3-cd]pyrene	276	14.930	14.930	0.000	43	99326	1.00	1.01	a
41 Dibenz(a,h)anthracene	278	14.987	14.994	-0.007	54	116674	1.00	1.01	
42 Benzo[g,h,i]perylene	276	15.425	15.425	0.000	98	122840	1.00	1.03	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

MSS_FVSIM_ICV_00016 Amount Added: 1.00 Units: mL

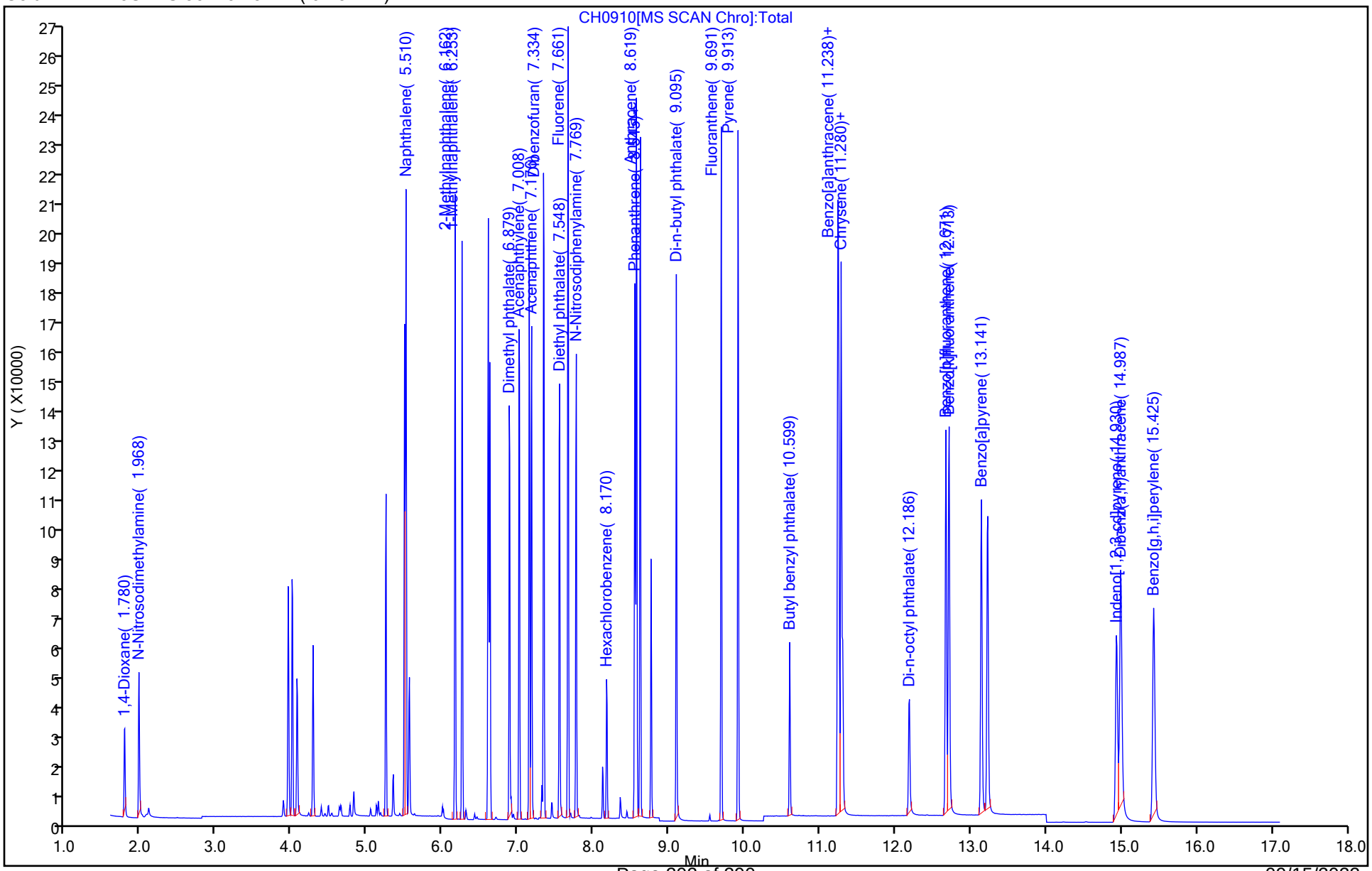
Report Date: 09-Aug-2022 19:36:21 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP10623\20220809-63751.b\CH0910.D

Injection Date:	09-Aug-2022 18:56:30	Instrument ID:	HP10623	Operator ID:	apb10206
Lims ID:	ICV			Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	8270_SIM_HP10623	Limit Group:	MSSV - 8270D_E SIM		

Column: Rxi-.5SilMS 30m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

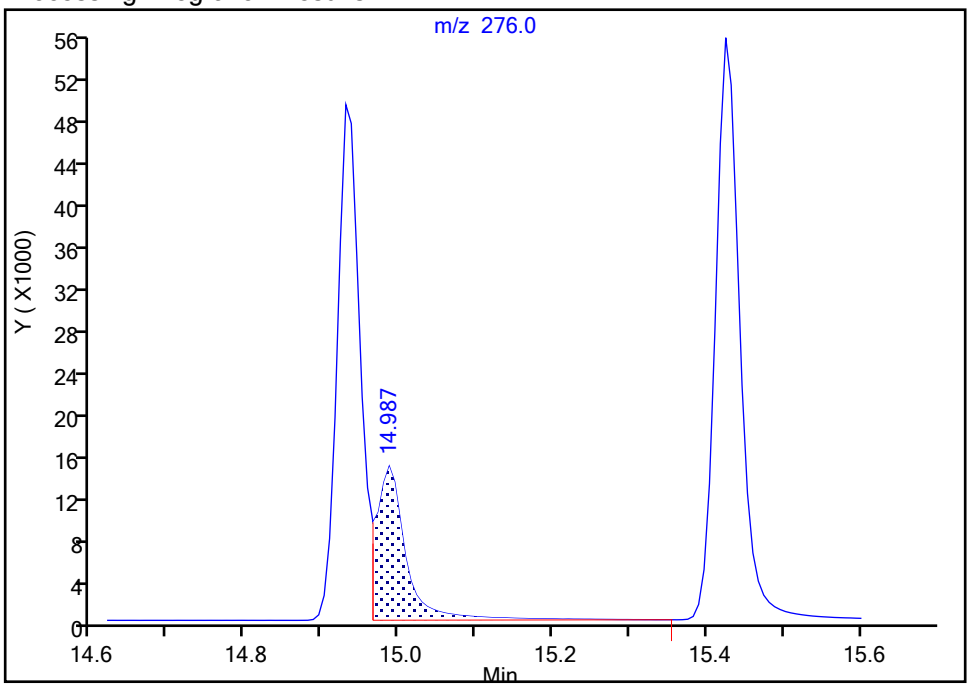
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Injection Date:	09-Aug-2022 18:56:30	Instrument ID:	HP10623		
Lims ID:	ICV				
Client ID:					
Operator ID:	apb10206	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP10623	Limit Group:	MSSV - 8270D_E SIM		
Column:	Rxi-.5SilMS 30m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

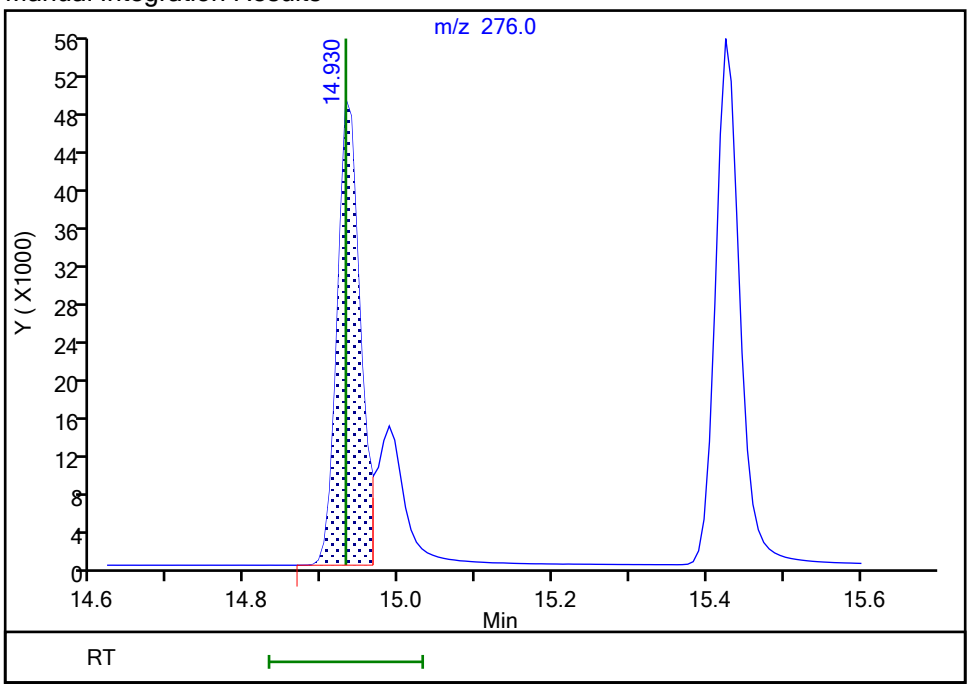
Processing Integration Results

RT: 14.99
Area: 37514
Amount: 0.381700
Amount Units: ug/ml



Manual Integration Results

RT: 14.93
Area: 99326
Amount: 1.010629
Amount Units: ug/ml



Reviewer: SJ89, 09-Aug-2022 19:20:47
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-96269-1

SDG No.:

Lab Sample ID: CCVIS 410-295923/2 Calibration Date: 09/14/2022 16:06

Instrument ID: HP10623 Calib Start Date: 08/09/2022 15:22

GC Column: Rxi-.5SilMS 30m ID: 0.25(mm) Calib End Date: 08/09/2022 17:46

Lab File ID: CI0601.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.5264	0.4604		0.437	0.500	-12.5	20.4
N-Nitrosodimethylamine	Ave	0.6248	0.5544		0.444	0.500	-11.3	20.4
Bis(2-chloroethyl)ether	Ave	0.3115	0.2994		0.481	0.500	-3.9	20.4
Naphthalene	Ave	1.036	1.073		0.518	0.500	3.5	20.4
Quinoline	Ave	0.6802	0.6567		0.483	0.500	-3.5	20.4
2-Methylnaphthalene	Ave	0.6714	0.6854		0.510	0.500	2.1	20.4
1-Methylnaphthalene	Ave	0.6303	0.6386		0.507	0.500	1.3	20.4
Dimethyl phthalate	Ave	1.389	1.336		0.481	0.500	-3.8	20.4
Acenaphthylene	Ave	1.948	1.907		0.489	0.500	-2.1	20.4
Acenaphthene	Ave	1.193	1.205		0.505	0.500	1.0	20.4
Dibenzofuran	Ave	1.798	0.0373		0.0104	0.500	-97.9*	20.4
Diethyl phthalate	Ave	1.421	1.250		0.440	0.500	-12.0	20.4
Fluorene	Ave	1.431	1.398		0.488	0.500	-2.3	20.4
N-Nitrosodiphenylamine	Ave	0.4891	0.5017		0.513	0.500	2.6	20.4
Hexachlorobenzene	Ave	0.1918	0.2138		0.557	0.500	11.5	20.4
Phenanthrene	Ave	1.150	1.138		0.495	0.500	-1.0	20.4
Anthracene	Ave	1.114	1.056		0.474	0.500	-5.2	20.4
Di-n-butyl phthalate	Ave	1.095	0.9610		0.439	0.500	-12.3	20.4
Fluoranthene	Ave	1.275	1.221		0.479	0.500	-4.3	20.4
Pyrene	Ave	1.517	1.551		0.511	0.500	2.2	20.4
Butyl benzyl phthalate	Qua1		0.4283		0.734	0.500	46.8*	20.4
Benzo[a]anthracene	Ave	1.365	1.255		0.460	0.500	-8.0	20.4
Chrysene	Ave	1.399	1.395		0.499	0.500	-0.3	20.4
Bis(2-ethylhexyl) phthalate	Qua1		0.5406		0.554	0.500	10.7	20.4
Di-n-octyl phthalate	Qua1		0.8577		0.600	0.500	20.0	20.4
Benzo[b]fluoranthene	Ave	1.338	1.264		0.472	0.500	-5.5	20.4
Benzo[k]fluoranthene	Ave	1.394	1.402		0.503	0.500	0.6	20.4
Benzo[e]pyrene	Ave	1.294	1.266		0.489	0.500	-2.2	20.4
Benzo[a]pyrene	Ave	1.248	1.221		0.489	0.500	-2.2	20.4
Perylene	Ave	1.292	1.242		0.481	0.500	-3.8	20.4
Indeno[1,2,3-cd]pyrene	Ave	0.9939	1.111		0.559	0.500	11.8	20.4
Dibenz(a,h)anthracene	Ave	1.166	1.257		0.539	0.500	7.8	20.4
Benzo[g,h,i]perylene	Ave	1.205	1.338		0.555	0.500	11.0	20.4
1-Methylnaphthalene-d10 (Surr)	Ave	0.5026	0.5096		0.507	0.500	1.4	20.4
Fluoranthene-d10 (Surr)	Ave	1.071	1.000		0.467	0.500	-6.7	20.4
Benzo(a)pyrene-d12 (Surr)	Ave	0.9280	0.9267		0.499	0.500	-0.1	20.4

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP10623\20220914-66354.b\CI0601.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 14-Sep-2022 16:06:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 410-0066354-002
Operator ID: kel10217 Instrument ID: HP10623
Sublist: chrom-8270_SIM_HP10623*sub4

Method: \\chromfs\Lancaster\ChromData\HP10623\20220914-66354.b\8270_SIM_HP10623.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 14-Sep-2022 17:55:19 Calib Date: 09-Aug-2022 17:46:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP10623\20220809-63751.b\CH0907.D

Column 1 : Rxi-.5SilMS 30m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1630

First Level Reviewer: SJ89 Date: 14-Sep-2022 16:31:31

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.688	1.688	0.000	95	12890	0.5000	0.4373	
2 N-Nitrosodimethylamine	74	1.876	1.876	0.000	90	15522	0.5000	0.4437	
3 Bis(2-chloroethyl)ether	93	3.883	3.883	0.000	89	31386	0.5000	0.4806	
* 4 1,4-Dichlorobenzene-d4	152	4.154	4.154	0.000	84	55993	1.00	1.00	
* 5 Naphthalene-d8	136	5.374	5.374	0.000	51	209673	1.00	1.00	
6 Naphthalene	128	5.394	5.394	0.000	97	112492	0.5000	0.5177	
7 Quinoline	129	5.710	5.710	0.000	0	68842	0.5000	0.4827	
8 2-Methylnaphthalene	142	6.046	6.046	0.000	70	71856	0.5000	0.5104	
$ 9 1-Methylnaphthalene-d10	152	6.110	6.110	0.000	75	53427	0.5000	0.5070	
10 1-Methylnaphthalene	142	6.143	6.143	0.000	67	66945	0.5000	0.5066	
11 Dimethyl phthalate	163	6.776	6.776	0.000	99	71257	0.5000	0.4810	
12 Acenaphthylene	152	6.898	6.898	0.000	73	101705	0.5000	0.4893	
* 13 Acenaphthene-d10	164	7.034	7.034	0.000	87	106680	1.00	1.00	
14 Acenaphthene	154	7.060	7.060	0.000	55	64270	0.5000	0.5048	
15 Dibenzofuran	168	7.273	7.273	0.000	90	1989	0.5000	0.0104	
16 Diethyl phthalate	149	7.434	7.434	0.000	66	66701	0.5000	0.4399	
17 Fluorene	166	7.548	7.548	0.000	90	74567	0.5000	0.4884	
18 N-Nitrosodiphenylamine	169	7.661	7.661	0.000	62	48379	0.5000	0.5129	
19 Hexachlorobenzene	284	8.063	8.063	0.000	99	20614	0.5000	0.5573	
* 20 Phenanthrene-d10	188	8.438	8.438	0.000	95	192870	1.00	1.00	
21 Phenanthrene	178	8.458	8.458	0.000	87	109765	0.5000	0.4950	
22 Anthracene	178	8.505	8.505	0.000	91	101823	0.5000	0.4739	
23 Di-n-butyl phthalate	149	8.986	8.986	0.000	80	92672	0.5000	0.4387	
$ 24 Fluoranthene-d10 (Surr)	212	9.566	9.566	0.000	77	96413	0.5000	0.4666	
25 Fluoranthene	202	9.583	9.583	0.000	99	117732	0.5000	0.4786	
26 Pyrene	202	9.799	9.799	0.000	100	120772	0.5000	0.5112	
27 Butyl benzyl phthalate	149	10.472	10.472	0.000	100	33358	0.5000	0.7340	
28 Benzo[a]anthracene	228	11.097	11.097	0.000	100	97758	0.5000	0.4599	
* 29 Chrysene-d12	240	11.111	11.111	0.000	95	155773	1.00	1.00	
30 Chrysene	228	11.140	11.140	0.000	100	108677	0.5000	0.4986	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	11.161	11.161	0.000	99	42105	0.5000	0.5535	
32 Di-n-octyl phthalate	149	12.024	12.024	0.000	100	65706	0.5000	0.5999	
33 Benzo[b]fluoranthene	252	12.502	12.502	0.000	100	96848	0.5000	0.4723	
34 Benzo[k]fluoranthene	252	12.544	12.544	0.000	100	107386	0.5000	0.5029	
35 Benzo[e]pyrene	252	12.895	12.895	0.000	100	96974	0.5000	0.4889	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	12.930	12.930	0.000	100	70991	0.5000	0.4993	
37 Benzo[a]pyrene	252	12.965	12.965	0.000	100	93506	0.5000	0.4890	
* 38 Perylene-d12	264	13.050	13.050	0.000	100	153212	1.00	1.00	
39 Perylene	252	13.085	13.085	0.000	100	95156	0.5000	0.4808	
40 Indeno[1,2,3-cd]pyrene	276	14.690	14.690	0.000	42	85108	0.5000	0.5589	a
41 Dibenz(a,h)anthracene	278	14.747	14.747	0.000	54	96290	0.5000	0.5389	
42 Benzo[g,h,i]perylene	276	15.163	15.163	0.000	100	102481	0.5000	0.5551	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

MSS_FVSIM_4_00016 Amount Added: 1.00 Units: mL

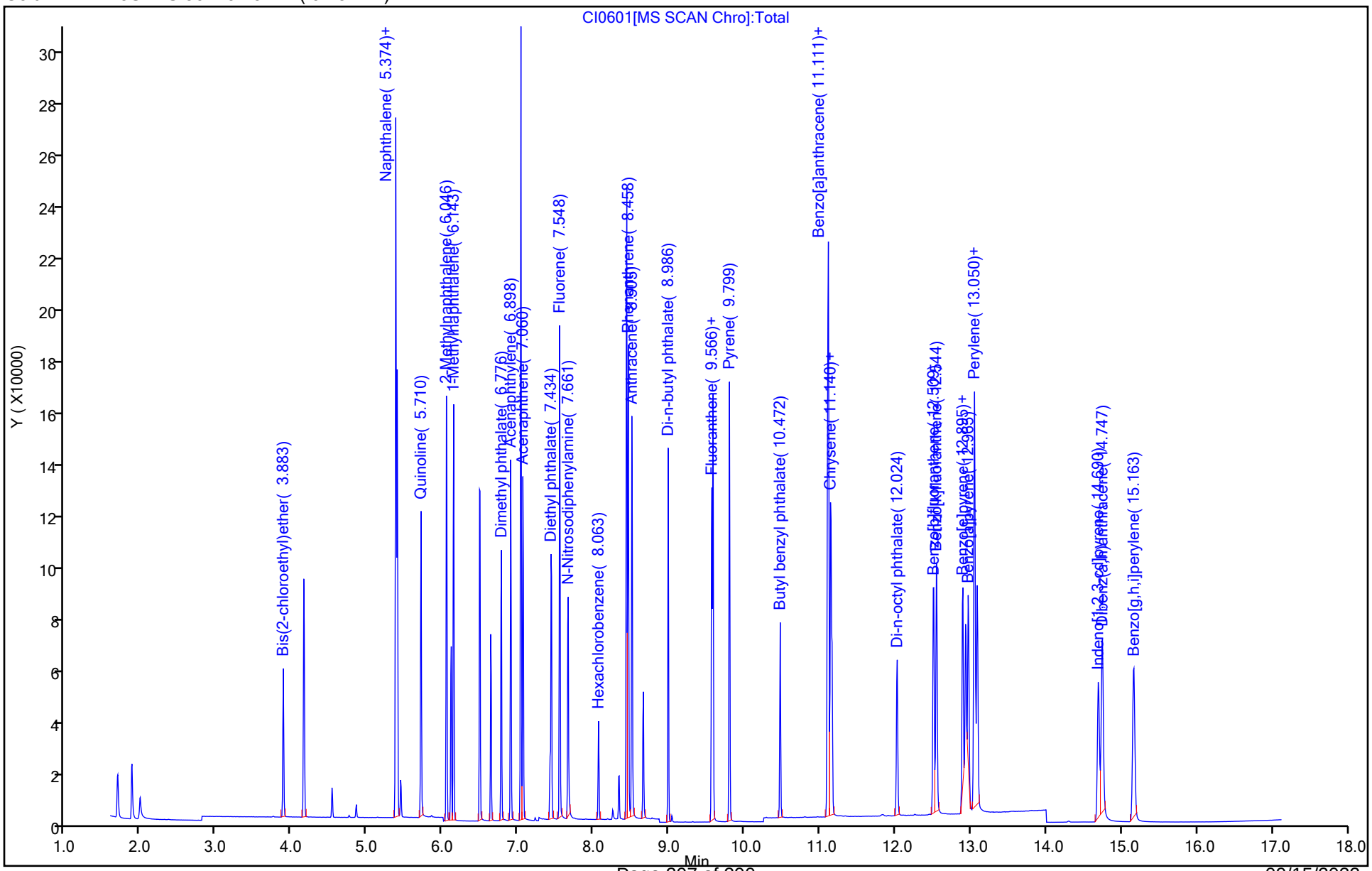
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Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP10623\20220914-66354.b\CI0601.D

Injection Date:	14-Sep-2022 16:06:30	Instrument ID:	HP10623	Operator ID:	kel10217
Lims ID:	CCVIS			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8270_SIM_HP10623	Limit Group:	MSSV - 8270D_E SIM		

Column: Rxi-.5SilMS 30m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

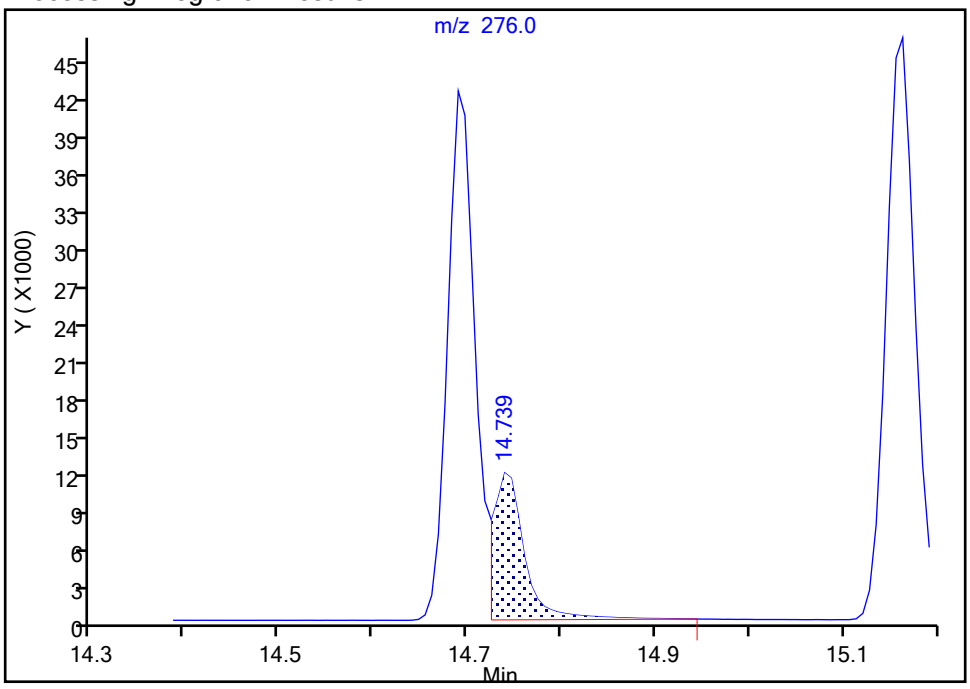
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Injection Date:	14-Sep-2022 16:06:30	Instrument ID:	HP10623		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP10623	Limit Group:	MSSV - 8270D_E SIM		
Column:	Rxi-.5SilMS 30m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

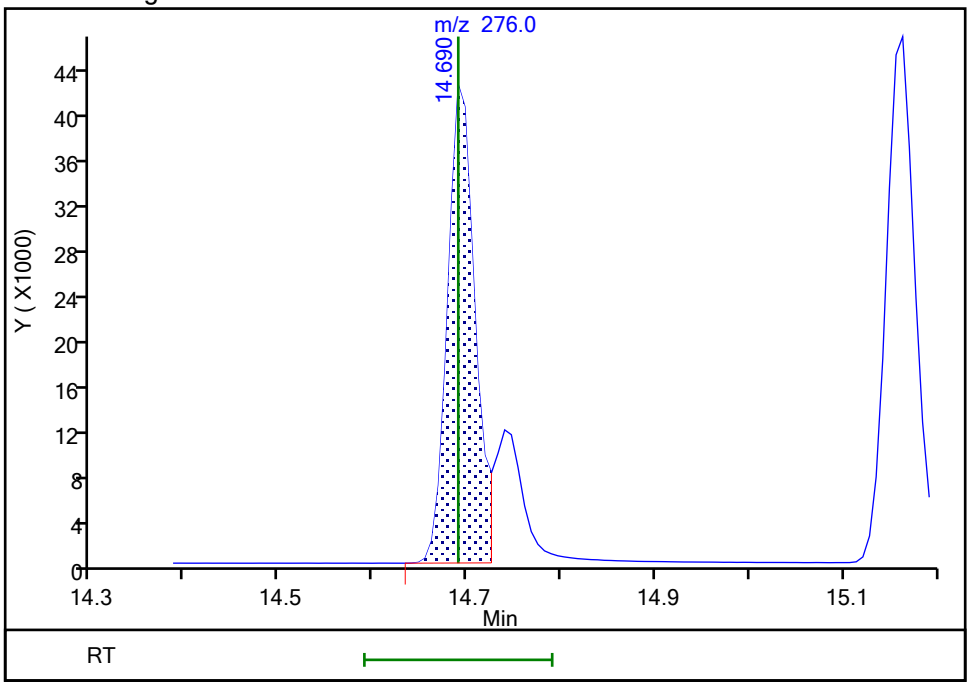
Processing Integration Results

RT: 14.74
Area: 25631
Amount: 0.168320
Amount Units: ug/ml



Manual Integration Results

RT: 14.69
Area: 85108
Amount: 0.558909
Amount Units: ug/ml



Reviewer: SJ89, 14-Sep-2022 16:27:58

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-96269-1

SDG No.:

Lab Sample ID: ICV 410-250058/9 Calibration Date: 04/29/2022 17:47

Instrument ID: HP23263 Calib Start Date: 04/29/2022 14:59

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 04/29/2022 17:03

Lab File ID: ND1408.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.6943	0.5915		0.426	0.500	-14.8	30.0
N-Nitrosodimethylamine	Ave	0.7701	0.8811		0.572	0.500	14.4	30.0
Bis(2-chloroethyl)ether	Ave	0.4806	0.4446		0.463	0.500	-7.5	30.0
Naphthalene	Ave	1.252	1.143		0.456	0.500	-8.7	30.0
2-Methylnaphthalene	Ave	0.7521	0.6546		0.435	0.500	-13.0	30.0
1-Methylnaphthalene	Ave	0.6832	0.6076		0.445	0.500	-11.1	30.0
Dimethyl phthalate	Ave	1.121	1.379		0.615	0.500	23.0	30.0
Acenaphthylene	Ave	2.305	2.033		0.441	0.500	-11.8	30.0
Acenaphthene	Ave	1.376	1.121		0.407	0.500	-18.6	30.0
Dibenzofuran	Ave	2.115	1.864		0.441	0.500	-11.9	30.0
Diethyl phthalate	Ave	1.136	1.396		0.614	0.500	22.9	30.0
Fluorene	Ave	1.527	1.340		0.439	0.500	-12.3	30.0
N-Nitrosodiphenylamine	Ave	0.5401	0.6405		0.504	0.425	18.6	30.0
Hexachlorobenzene	Ave	0.2995	0.2575		0.430	0.500	-14.0	30.0
Phenanthrene	Ave	1.322	1.108		0.419	0.500	-16.2	30.0
Anthracene	Ave	1.247	1.078		0.432	0.500	-13.6	30.0
Di-n-butyl phthalate	Ave	0.9268	1.064		0.574	0.500	14.9	30.0
Fluoranthene	Ave	1.264	1.100		0.435	0.500	-13.0	30.0
Pyrene	Ave	2.018	1.695		0.420	0.500	-16.0	30.0
Butyl benzyl phthalate	Ave	0.5179	0.5387		0.520	0.500	4.0	30.0
Benzo[a]anthracene	Ave	1.444	1.312		0.454	0.500	-9.1	30.0
Chrysene	Ave	1.643	1.435		0.437	0.500	-12.7	30.0
Bis(2-ethylhexyl) phthalate	Ave	0.6716	0.6679		0.497	0.500	-0.5	30.0
Di-n-octyl phthalate	Ave	1.051	1.053		0.501	0.500	0.2	30.0
Benzo[b]fluoranthene	Ave	1.294	1.254		0.485	0.500	-3.1	30.0
Benzo[k]fluoranthene	Ave	1.669	1.706		0.511	0.500	2.2	30.0
Benzo[a]pyrene	Ave	1.375	1.313		0.477	0.500	-4.5	30.0
Indeno[1,2,3-cd]pyrene	Ave	0.9239	0.8796		0.476	0.500	-4.8	30.0
Dibenz(a,h)anthracene	Ave	1.087	1.062		0.489	0.500	-2.3	30.0
Benzo[g,h,i]perylene	Ave	1.310	1.266		0.483	0.500	-3.4	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20220429-56077.b\ND1408.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 29-Apr-2022 17:47:30 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: 410-0056077-009
Operator ID: whs02991 Instrument ID: HP23263
Sublist:

Method: \\chromfs\Lancaster\ChromData\HP23263\20220429-56077.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 29-Apr-2022 18:27:46 Calib Date: 29-Apr-2022 17:03:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20220429-56077.b\ND1406.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1632

First Level Reviewer: saadehw Date: 29-Apr-2022 18:27:07

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.720	1.733	-0.013	95	98526	0.5000	0.4259	
2 N-Nitrosodimethylamine	74	2.022	2.057	-0.035	87	146770	0.5000	0.5721	
3 Bis(2-chloroethyl)ether	93	4.244	4.257	-0.013	99	235947	0.5000	0.4626	
* 4 1,4-Dichlorobenzene-d4	152	4.507	4.507	0.000	100	83289	0.2500	0.2500	
* 5 Naphthalene-d8	136	5.706	5.706	0.000	100	265335	0.2500	0.2500	
6 Naphthalene	128	5.719	5.719	0.000	100	606534	0.5000	0.4563	
8 2-Methylnaphthalene	142	6.377	6.379	-0.002	95	347386	0.5000	0.4352	
10 1-Methylnaphthalene	142	6.467	6.469	-0.002	99	322441	0.5000	0.4447	
11 Dimethyl phthalate	163	7.108	7.110	-0.002	99	335545	0.5000	0.6150	
12 Acenaphthylene	152	7.228	7.230	-0.002	97	494861	0.5000	0.4411	
* 13 Acenaphthene-d10	164	7.368	7.360	0.008	92	121689	0.2500	0.2500	
14 Acenaphthene	154	7.388	7.390	-0.002	96	272744	0.5000	0.4072	
15 Dibenzofuran	168	7.558	7.561	-0.003	72	453688	0.5000	0.4406	
16 Diethyl phthalate	149	7.782	7.777	0.005	98	339740	0.5000	0.6143	
17 Fluorene	166	7.883	7.885	-0.002	99	326037	0.5000	0.4387	
18 N-Nitrosodiphenylamine	169	7.998	8.001	-0.003	97	220974	0.4250	0.5040	
19 Hexachlorobenzene	284	8.400	8.402	-0.002	90	104503	0.5000	0.4298	
* 20 Phenanthrene-d10	188	8.771	8.773	-0.002	100	202939	0.2500	0.2500	
21 Phenanthrene	178	8.794	8.796	-0.002	100	449861	0.5000	0.4190	
22 Anthracene	178	8.840	8.842	-0.002	100	437394	0.5000	0.4321	
23 Di-n-butyl phthalate	149	9.342	9.337	0.005	100	432017	0.5000	0.5743	
25 Fluoranthene	202	9.925	9.926	-0.001	95	446539	0.5000	0.4351	
26 Pyrene	202	10.138	10.139	-0.001	96	453932	0.5000	0.4199	
27 Butyl benzyl phthalate	149	10.814	10.808	0.006	100	144279	0.5000	0.5201	
28 Benzo[a]anthracene	228	11.413	11.414	-0.001	99	351389	0.5000	0.4544	
* 29 Chrysene-d12	240	11.428	11.429	-0.001	97	133914	0.2500	0.2500	
30 Chrysene	228	11.459	11.460	-0.001	100	384297	0.5000	0.4367	
31 Bis(2-ethylhexyl) phthalate	149	11.489	11.490	-0.001	99	178895	0.5000	0.4973	
32 Di-n-octyl phthalate	149	12.364	12.357	0.007	100	252453	0.5000	0.5008	
33 Benzo[b]fluoranthene	252	12.832	12.832	0.000	100	300713	0.5000	0.4845	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
34 Benzo[k]fluoranthene	252	12.870	12.871	-0.001	100	409048	0.5000	0.5110	
37 Benzo[a]pyrene	252	13.292	13.293	-0.001	100	314796	0.5000	0.4774	
* 38 Perylene-d12	264	13.376	13.377	-0.001	97	119885	0.2500	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	14.987	14.988	-0.001	98	210904	0.5000	0.4760	
41 Dibenz(a,h)anthracene	278	15.044	15.044	0.000	98	254693	0.5000	0.4885	
42 Benzo[g,h,i]perylene	276	15.447	15.440	0.007	99	303526	0.5000	0.4832	

QC Flag Legend

Processing Flags

Reagents:

MSS_RVSIM_ICV_00029 Amount Added: 1.00 Units: mL

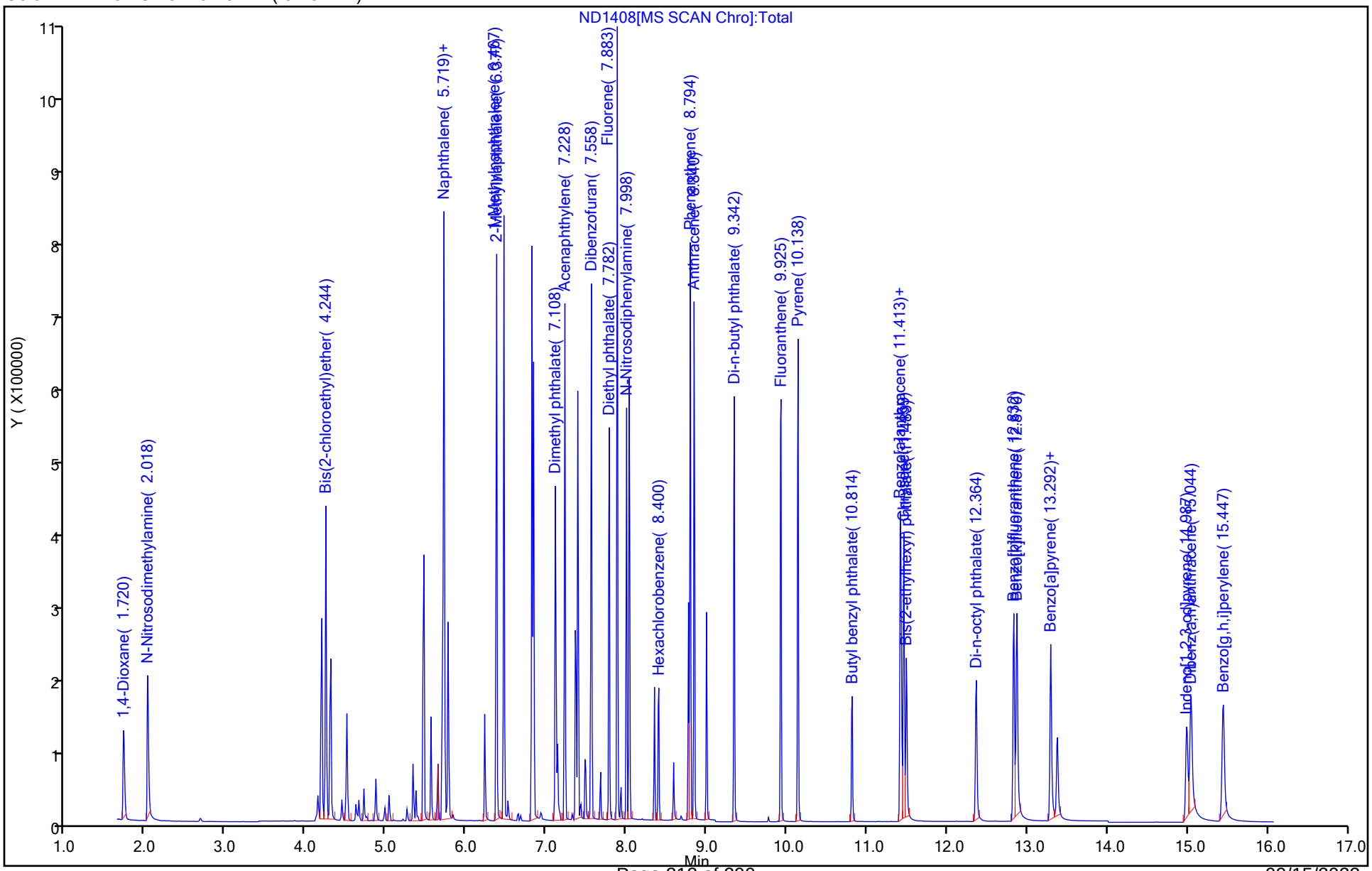
Report Date: 29-Apr-2022 18:28:03 Chrom Revision: 2.3 12-Apr-2022 20:29:44

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20220429-56077.b\ND1408.D

Injection Date:	29-Apr-2022 17:47:30	Instrument ID:	HP23263	Operator ID:	whs02991
Lims ID:	ICV			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-96269-1

SDG No.:

Lab Sample ID: CCVIS 410-292808/2 Calibration Date: 09/06/2022 07:21

Instrument ID: HP23263 Calib Start Date: 04/29/2022 14:59

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 04/29/2022 17:03

Lab File ID: NI0071.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.6943	0.5661		0.0815	0.100	-18.5	20.4
N-Nitrosodimethylamine	Ave	0.7701	0.5841		0.0758	0.100	-24.2*	20.4
Bis(2-chloroethyl)ether	Ave	0.4806	0.3174		0.0660	0.100	-34.0*	20.4
Naphthalene	Ave	1.252	1.078		0.0861	0.100	-13.9	20.4
Quinoline	Ave	0.7107	0.5346		0.0752	0.100	-24.8*	20.4
2-Methylnaphthalene	Ave	0.7521	0.6831		0.0908	0.100	-9.2	20.4
1-Methylnaphthalene	Ave	0.6832	0.6259		0.0916	0.100	-8.4	20.4
Dimethyl phthalate	Ave	1.121	1.279		1.14	1.00	14.1	20.4
Acenaphthylene	Ave	2.305	2.044		0.0887	0.100	-11.3	20.4
Acenaphthene	Ave	1.376	1.222		0.0888	0.100	-11.2	20.4
Dibenzofuran	Ave	2.115	1.857		0.0878	0.100	-12.2	20.4
Diethyl phthalate	Ave	1.136	1.314		1.16	1.00	15.7	20.4
Fluorene	Ave	1.527	1.429		0.0936	0.100	-6.4	20.4
N-Nitrosodiphenylamine	Ave	0.5401	0.4911		0.0909	0.100	-9.1	20.4
Hexachlorobenzene	Ave	0.2995	0.2825		0.0943	0.100	-5.7	20.4
Phenanthrene	Ave	1.322	1.159		0.0876	0.100	-12.4	20.4
Anthracene	Ave	1.247	1.167		0.0936	0.100	-6.4	20.4
Di-n-butyl phthalate	Ave	0.9268	1.075		1.16	1.00	16.0	20.4
Fluoranthene	Ave	1.264	1.219		0.0965	0.100	-3.5	20.4
Pyrene	Ave	2.018	1.726		0.0855	0.100	-14.5	20.4
Butyl benzyl phthalate	Ave	0.5179	0.6563		1.27	1.00	26.7*	20.4
Benzo[a]anthracene	Ave	1.444	1.464		0.101	0.100	1.4	20.4
Chrysene	Ave	1.643	1.650		0.100	0.100	0.5	20.4
Bis(2-ethylhexyl) phthalate	Ave	0.6716	0.8744		1.30	1.00	30.2*	20.4
Di-n-octyl phthalate	Ave	1.051	1.383		1.32	1.00	31.6*	20.4
Benzo[b]fluoranthene	Ave	1.294	1.252		0.0967	0.100	-3.3	20.4
Benzo[k]fluoranthene	Ave	1.669	1.541		0.0923	0.100	-7.7	20.4
Benzo[e]pyrene	Ave	1.415	1.305		0.0922	0.100	-7.8	20.4
Benzo[a]pyrene	Ave	1.375	1.326		0.0964	0.100	-3.6	20.4
Perylene	Ave	1.489	1.341		0.0901	0.100	-9.9	20.4
Indeno[1,2,3-cd]pyrene	Ave	0.9239	1.098		0.119	0.100	18.8	20.4
Dibenz(a,h)anthracene	Ave	1.087	1.300		0.120	0.100	19.5	20.4
Benzo[g,h,i]perylene	Ave	1.310	1.335		0.102	0.100	1.9	20.4
1-Methylnaphthalene-d10 (Surr)	Ave	0.5450	0.4976		0.0913	0.100	-8.7	20.4
Fluoranthene-d10 (Surr)	Ave	1.012	1.035		0.102	0.100	2.3	20.4
Benzo(a)pyrene-d12 (Surr)	Ave	0.9445	1.120		0.119	0.100	18.6	20.4

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20220906-65655.b\NI0071.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 06-Sep-2022 07:21:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 410-0065655-002
Operator ID: jmg00346 Instrument ID: HP23263
Sublist: chrom-8270_SIM_HP23263*sub3

Method: \\chromfs\Lancaster\ChromData\HP23263\20220906-65655.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 06-Sep-2022 07:52:07 Calib Date: 29-Apr-2022 17:03:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20220429-56077.b\ND1406.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1626

First Level Reviewer: UJM0 Date: 06-Sep-2022 07:52:01

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.446	1.446	0.000	98	12303	0.1000	0.0815	
2 N-Nitrosodimethylamine	74	1.788	1.788	0.000	89	12695	0.1000	0.0758	
3 Bis(2-chloroethyl)ether	93	4.092	4.092	0.000	92	23745	0.1000	0.0660	
* 4 1,4-Dichlorobenzene-d4	152	4.342	4.342	0.000	99	54336	0.2500	0.2500	
* 5 Naphthalene-d8	136	5.567	5.567	0.000	100	187039	0.2500	0.2500	
6 Naphthalene	128	5.579	5.579	0.000	100	80684	0.1000	0.0861	
7 Quinoline	129	5.917	5.917	0.000	98	39996	0.1000	0.0752	
8 2-Methylnaphthalene	142	6.244	6.244	0.000	100	51110	0.1000	0.0908	
$ 9 1-Methylnaphthalene-d10	152	6.304	6.304	0.000	98	37227	0.1000	0.0913	
10 1-Methylnaphthalene	142	6.334	6.334	0.000	94	46827	0.1000	0.0916	
11 Dimethyl phthalate	163	6.995	6.995	0.000	98	451524	1.00	1.14	
12 Acenaphthylene	152	7.095	7.095	0.000	100	72169	0.1000	0.0887	
* 13 Acenaphthene-d10	164	7.236	7.236	0.000	99	88259	0.2500	0.2500	
14 Acenaphthene	154	7.266	7.266	0.000	91	43150	0.1000	0.0888	
15 Dibenzofuran	168	7.436	7.436	0.000	67	65557	0.1000	0.0878	
16 Diethyl phthalate	149	7.664	7.664	0.000	98	463955	1.00	1.16	
17 Fluorene	166	7.757	7.757	0.000	100	50450	0.1000	0.0936	
18 N-Nitrosodiphenylamine	169	7.880	7.880	0.000	98	30225	0.1000	0.0909	
19 Hexachlorobenzene	284	8.274	8.274	0.000	87	17388	0.1000	0.0943	
* 20 Phenanthrene-d10	188	8.645	8.645	0.000	100	153879	0.2500	0.2500	
21 Phenanthrene	178	8.668	8.668	0.000	100	71339	0.1000	0.0876	
22 Anthracene	178	8.714	8.714	0.000	100	71801	0.1000	0.0936	
23 Di-n-butyl phthalate	149	9.221	9.221	0.000	100	661635	1.00	1.16	
$ 24 Fluoranthene-d10 (Surr)	212	9.779	9.779	0.000	98	63712	0.1000	0.1023	
25 Fluoranthene	202	9.798	9.798	0.000	97	75059	0.1000	0.0965	
26 Pyrene	202	10.011	10.011	0.000	95	80430	0.1000	0.0855	
27 Butyl benzyl phthalate	149	10.666	10.666	0.000	100	305786	1.00	1.27	
28 Benzo[a]anthracene	228	11.234	11.234	0.000	99	68204	0.1000	0.1014	
* 29 Chrysene-d12	240	11.249	11.249	0.000	87	116486	0.2500	0.2500	
30 Chrysene	228	11.280	11.280	0.000	93	76903	0.1000	0.1005	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	11.318	11.318	0.000	100	407405	1.00	1.30	
32 Di-n-octyl phthalate	149	12.147	12.147	0.000	100	702822	1.00	1.32	
33 Benzo[b]fluoranthene	252	12.592	12.592	0.000	100	63598	0.1000	0.0967	
34 Benzo[k]fluoranthene	252	12.630	12.630	0.000	100	78285	0.1000	0.0923	
35 Benzo[e]pyrene	252	12.960	12.960	0.000	100	66324	0.1000	0.0922	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.006	13.006	0.000	92	56929	0.1000	0.1186	
37 Benzo[a]pyrene	252	13.036	13.036	0.000	100	67365	0.1000	0.0964	
* 38 Perylene-d12	264	13.113	13.113	0.000	98	127030	0.2500	0.2500	
39 Perylene	252	13.151	13.151	0.000	100	68138	0.1000	0.0901	
40 Indeno[1,2,3-cd]pyrene	276	14.646	14.646	0.000	95	55781	0.1000	0.1188	
41 Dibenz(a,h)anthracene	278	14.689	14.689	0.000	97	66039	0.1000	0.1195	
42 Benzo[g,h,i]perylene	276	15.063	15.063	0.000	96	67829	0.1000	0.1019	

QC Flag Legend

Processing Flags

Reagents:

MSS_RVSIM_3_00017 Amount Added: 1.00 Units: mL

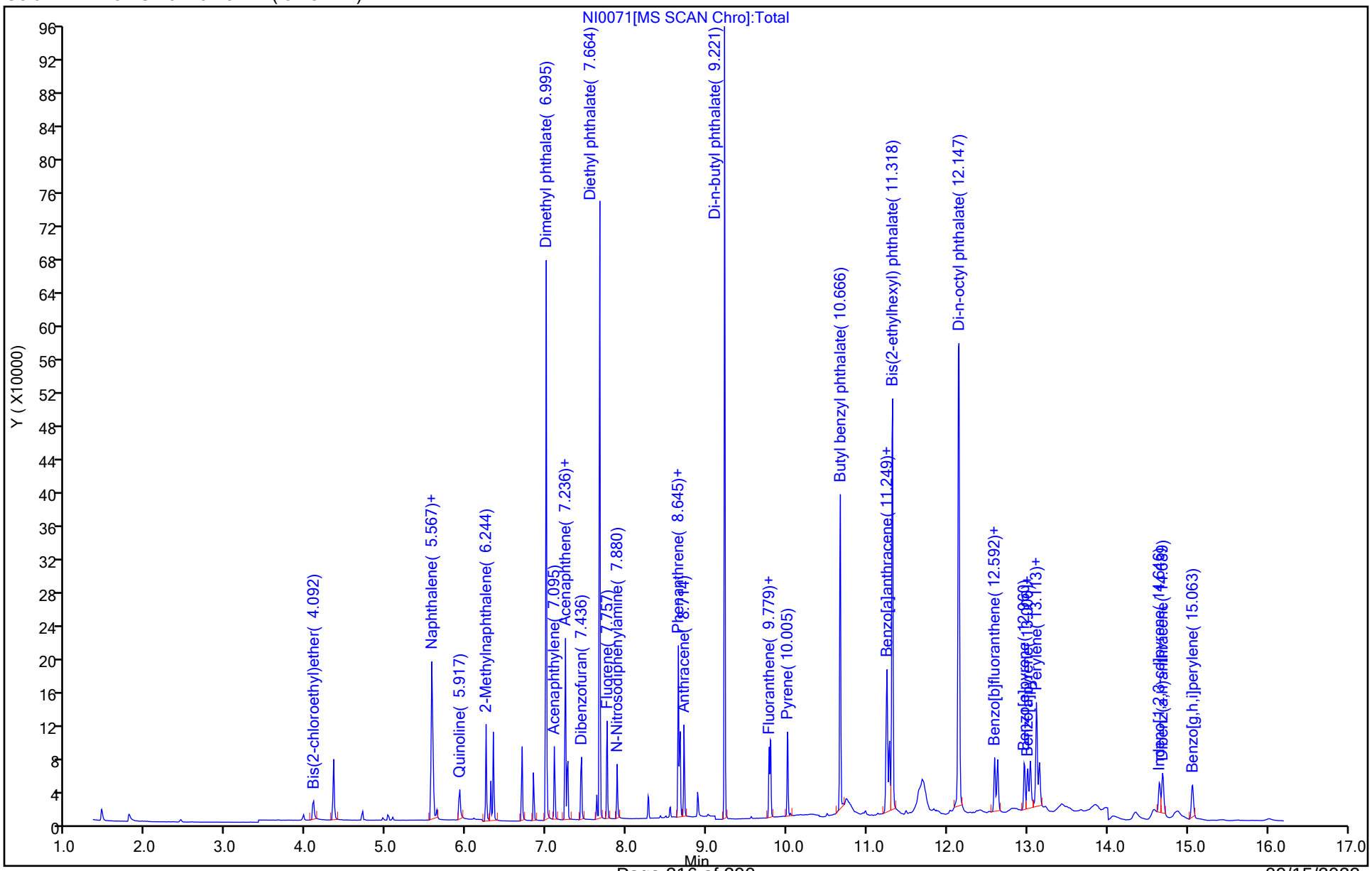
Report Date: 06-Sep-2022 07:52:08 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20220906-65655.b\NI0071.D

Injection Date:	06-Sep-2022 07:21:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	CCVIS			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP10623\20220809-63751.b\CH0900.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 09-Aug-2022 14:50:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Operator ID: apb10206 Instrument ID: HP10623

Method: \\chromfs\Lancaster\ChromData\HP10623\20220809-63751.b\8270_SIM_HP10623.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 09-Aug-2022 19:36:22 Calib Date: 09-Aug-2022 17:46:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP10623\20220809-63751.b\CH0907.D

Column 1 : Rxi-.5SilMS 30m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1609

First Level Reviewer: bauera Date: 09-Aug-2022 15:17:38

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
44 Pentachlorophenol_T	266	5.581	5.581	0.000	95	3343770	NR	NR	
45 DFTPP									
46 Benzidine_T	184	7.081	7.081	0.000	99	12859319	NR	NR	e
48 4,4'-DDD	235	7.616	7.616	0.000	95	18192		NR	a
49 4,4'-DDT	235	7.887	7.887	0.000	94	8724932	NR	NR	e

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
e - Potential Peak Saturated
Review Flags
a - User Assigned ID

Reagents:

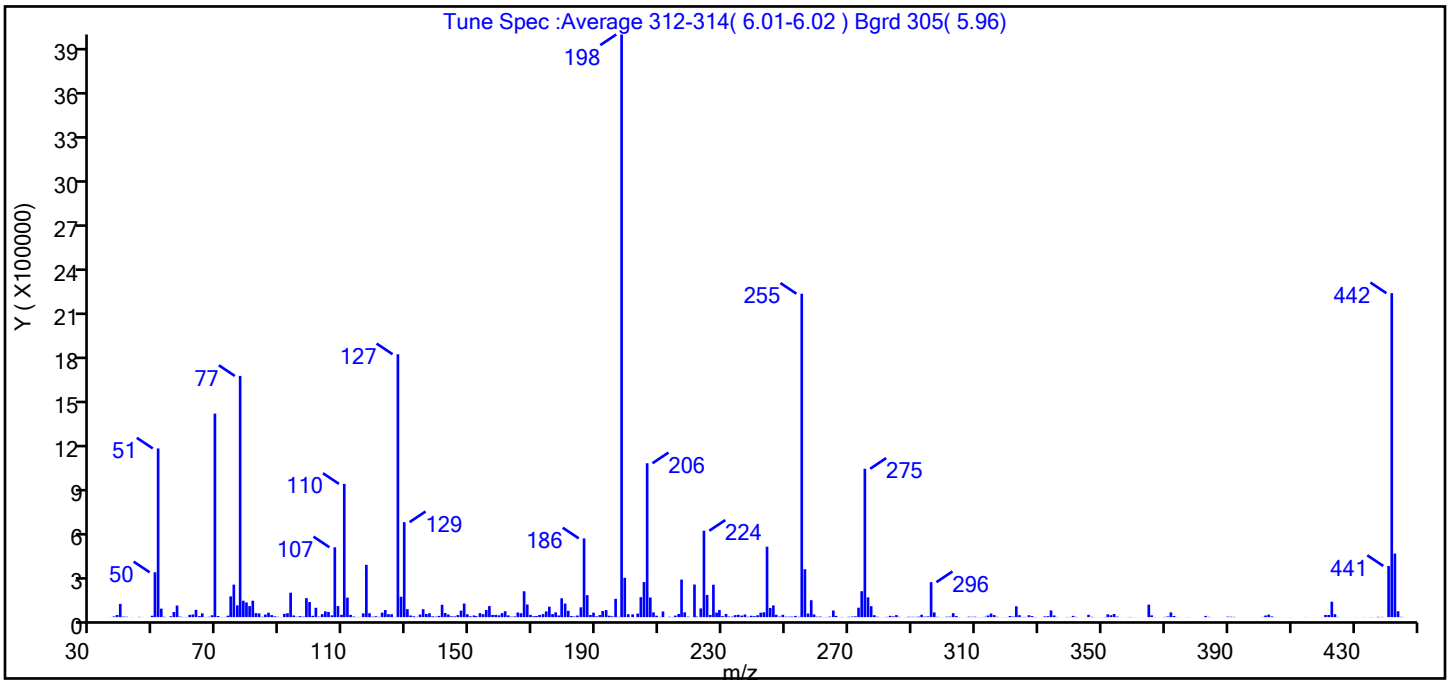
MSS_FVDFTPP_00015 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP10623\20220809-63751.b\CH0900.D
Injection Date: 09-Aug-2022 14:50:30 Instrument ID: HP10623
Lims ID: DFTPP
Client ID:
Operator ID: apb10206 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP10623 Limit Group: MSSV - 8270D_E SIM
Tune Method: DFTPP Method 8270D, BP 198

45 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (179.9)
51	10-80% of the base peak	29.0
68	<2% of mass 69	0.3 (0.9)
69	Present	34.9
70	<2% of mass 69	0.2 (0.6)
127	10-80% of the base peak	45.1
197	<2% of mass 198	0.1
199	5-9% of mass 198	6.8
275	10-60% of the base peak	25.5
365	>1% of mass 198	2.1
441	present but <24% of mass 442	8.8 (15.8)
442	base peak, or >50% of 198	55.6
443	15-24% of mass 442	10.9 (19.6)

Data File: \\chromfs\Lancaster\ChromData\HP10623\20220809-63751.b\CH0900.D\8270_SIM_HP10623.rslt\spectra
Injection Date: 09-Aug-2022 14:50:30
Spectrum: Tune Spec :Average 312-314(6.01-6.02) Bgrd 305(5.96)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 391

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	556	135.00	54488	236.00	10786	334.00	45736
37.00	4906	136.00	21320	237.00	18208	335.00	11411
38.00	14609	137.00	26496	238.00	2738	336.00	1378
39.00	90560	138.00	5520	239.00	9521	337.00	88
40.00	3785	139.00	3615	240.00	6815	338.00	65
41.00	2857	140.00	8347	241.00	12880	339.00	1155
42.00	81	141.00	84480	242.00	30232	340.00	1212
43.00	732	142.00	28360	243.00	33304	341.00	8643
45.00	1858	143.00	17800	244.00	480320	342.00	1999
46.00	413	144.00	5734	245.00	62576	343.00	208
47.00	135	145.00	5005	246.00	79856	344.00	156
48.00	482	146.00	14190	247.00	16560	345.00	268
49.00	9523	147.00	44440	248.00	4077	346.00	15842
50.00	305920	148.00	92600	249.00	16077	347.00	2524
51.00	1150464	149.00	19600	250.00	3286	348.00	382
52.00	57896	150.00	6047	251.00	3434	349.00	166
53.00	2471	151.00	11065	252.00	3703	350.00	532
54.00	167	152.00	6972	253.00	8334	351.00	1290
55.00	6050	153.00	27152	254.00	2239	352.00	19176
56.00	35064	154.00	20600	255.00	2205696	353.00	13074
57.00	79408	155.00	48648	256.00	326720	354.00	21344
58.00	3649	156.00	75424	257.00	24768	355.00	3778
59.00	956	157.00	15209	258.00	115608	356.00	505
60.00	1313	158.00	15516	259.00	18056	357.00	169
61.00	15618	159.00	12576	260.00	3367	358.00	520
62.00	18200	160.00	27088	261.00	3710	359.00	1498
63.00	50312	161.00	40448	262.00	754	360.00	397
64.00	7207	162.00	12021	263.00	1306	361.00	512
65.00	25776	163.00	3290	264.00	4036	362.00	241
66.00	1306	164.00	4953	265.00	45424	363.00	237
67.00	2420	165.00	31640	266.00	8363	365.00	85280
68.00	12663	166.00	26744	267.00	500	366.00	12249
69.00	1388032	167.00	176640	268.00	1417	367.00	1139

Report Date: 09-Aug-2022 19:36:23 Chrom Revision: 2.3 08-Aug-2022 16:03:06
Data File: \\chromfs\Lancaster\ChromData\HP10623\20220809-63751.b\CH0900.D\8270_SIM_HP10623.rslt\spectra
Injection Date: 09-Aug-2022 14:50:30
Spectrum: Tune Spec :Average 312-314(6.01-6.02) Bgrd 305(5.96)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 391

m/z	Y	m/z	Y	m/z	Y	m/z	Y
70.00	7745	168.00	86528	269.00	602	368.00	54
71.00	1119	169.00	15810	270.00	2512	369.00	122
72.00	1008	170.00	6287	271.00	4095	370.00	1866
73.00	9983	171.00	7756	272.00	5512	371.00	4813
74.00	141632	172.00	15162	273.00	64456	372.00	32312
75.00	221888	173.00	20888	274.00	176896	373.00	7726
76.00	80304	174.00	39112	275.00	1011904	374.00	892
77.00	1645056	175.00	71384	276.00	134848	377.00	812
78.00	111672	176.00	20856	277.00	74624	378.00	219
79.00	100160	177.00	32448	278.00	13112	379.00	51
80.00	75224	178.00	11405	279.00	2950	382.00	186
81.00	112096	179.00	128520	280.00	462	383.00	8376
82.00	27416	180.00	92488	281.00	715	384.00	2164
83.00	25448	181.00	42984	282.00	1864	385.00	727
84.00	2561	182.00	7260	283.00	9024	386.00	56
85.00	17608	183.00	4057	284.00	5503	389.00	189
86.00	30344	184.00	11113	285.00	13837	389.00	212
87.00	13885	185.00	66896	286.00	2285	390.00	3396
88.00	5658	186.00	537152	287.00	341	391.00	2924
89.00	2464	187.00	149888	288.00	1067	392.00	2073
90.00	728	188.00	14859	289.00	2862	393.00	399
91.00	22768	189.00	30456	290.00	2429	395.00	260
92.00	26640	190.00	5255	291.00	1708	396.00	102
93.00	166784	191.00	14350	292.00	3717	397.00	366
94.00	11521	192.00	41616	293.00	16247	398.00	63
95.00	2826	193.00	48144	294.00	3571	401.00	1693
96.00	7111	194.00	9622	295.00	5162	402.00	10993
97.00	3348	195.00	5873	296.00	238720	403.00	17120
98.00	129672	196.00	124928	297.00	32384	404.00	4995
99.00	103048	197.00	2100	298.00	2378	405.00	843
100.00	9188	198.00	3973632	299.00	604	406.00	98
101.00	63776	199.00	268224	300.00	442	409.00	206
102.00	3586	200.00	20160	301.00	3146	410.00	544
103.00	20504	201.00	19384	302.00	3618	415.00	830

Report Date: 09-Aug-2022 19:36:23 Chrom Revision: 2.3 08-Aug-2022 16:03:06
Data File: \\chromfs\Lancaster\ChromData\HP10623\20220809-63751.b\CH0900.D\8270_SIM_HP10623.rslt\spectra
Injection Date: 09-Aug-2022 14:50:30
Spectrum: Tune Spec :Average 312-314(6.01-6.02) Bgrd 305(5.96)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 391

m/z	Y	m/z	Y	m/z	Y	m/z	Y
104.00	39560	203.00	24408	303.00	27032	416.00	155
105.00	35672	204.00	136320	304.00	7445	417.00	60
106.00	12295	205.00	239360	305.00	1077	418.00	73
107.00	476416	206.00	1049600	306.00	310	419.00	244
108.00	75832	207.00	133824	307.00	434	420.00	272
109.00	16171	208.00	32688	308.00	3542	421.00	14863
110.00	908864	209.00	9720	309.00	2276	422.00	14764
111.00	133184	210.00	2008	310.00	2981	423.00	105360
112.00	15557	211.00	38840	311.00	768	424.00	19880
113.00	4179	213.00	2899	312.00	810	425.00	1591
114.00	1313	214.00	997	313.00	2252	426.00	138
115.00	1782	215.00	10431	314.00	11259	427.00	74
116.00	25784	216.00	21616	315.00	24768	428.00	217
117.00	356800	217.00	256320	316.00	13914	429.00	357
118.00	26296	218.00	32784	317.00	2490	430.00	236
119.00	3225	219.00	3634	318.00	113	431.00	322
120.00	6141	221.00	222464	319.00	579	432.00	96
121.00	2410	222.00	3781	320.00	843	433.00	485
122.00	30664	223.00	59616	321.00	8161	434.00	448
123.00	48552	224.00	589184	322.00	4049	435.00	756
124.00	20248	225.00	151744	323.00	73944	436.00	881
125.00	19952	226.00	15161	324.00	13228	438.00	1581
126.00	547	227.00	221120	325.00	1359	438.00	1298
127.00	1793024	228.00	30856	326.00	1632	439.00	1767
128.00	139008	229.00	48984	327.00	13148	441.00	348992
129.00	647808	230.00	7061	328.00	7295	442.00	2209280
130.00	54456	231.00	21416	329.00	1171	443.00	433536
131.00	11180	232.00	4236	330.00	435	444.00	40232
132.00	6024	233.00	3990	331.00	490	445.00	2181
133.00	2234	234.00	13752	332.00	5147	446.00	57
134.00	17912	235.00	15977	333.00	6599		

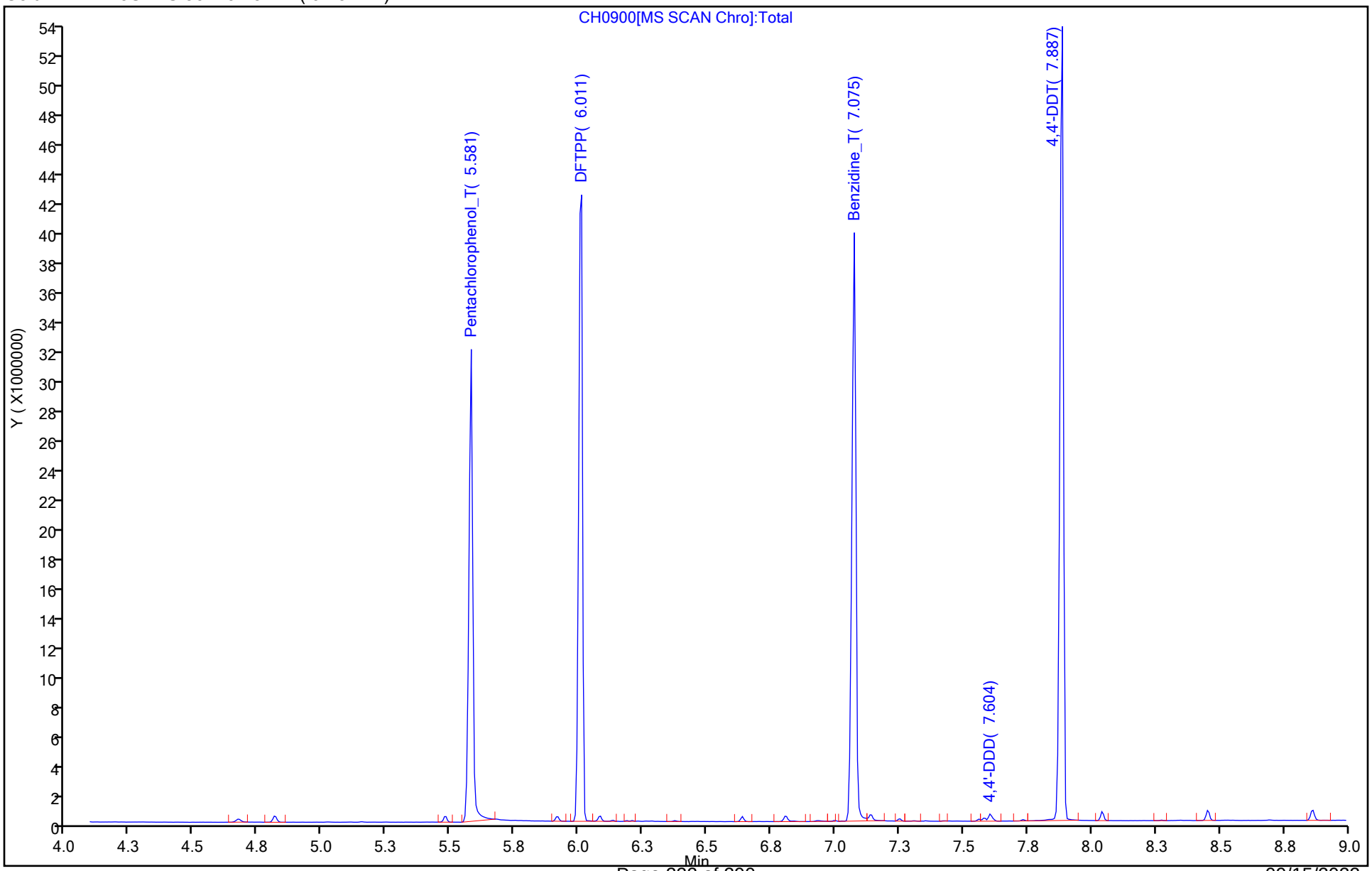
Report Date: 09-Aug-2022 19:36:23 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP10623\20220809-63751.b\CH0900.D

Injection Date:	09-Aug-2022 14:50:30	Instrument ID:	HP10623	Operator ID:	apb10206
Lims ID:	DFTPP			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8270_SIM_HP10623	Limit Group:	MSSV - 8270D_E SIM		

Column: Rxi-.5SilMS 30m 0.25mm (0.25 mm)

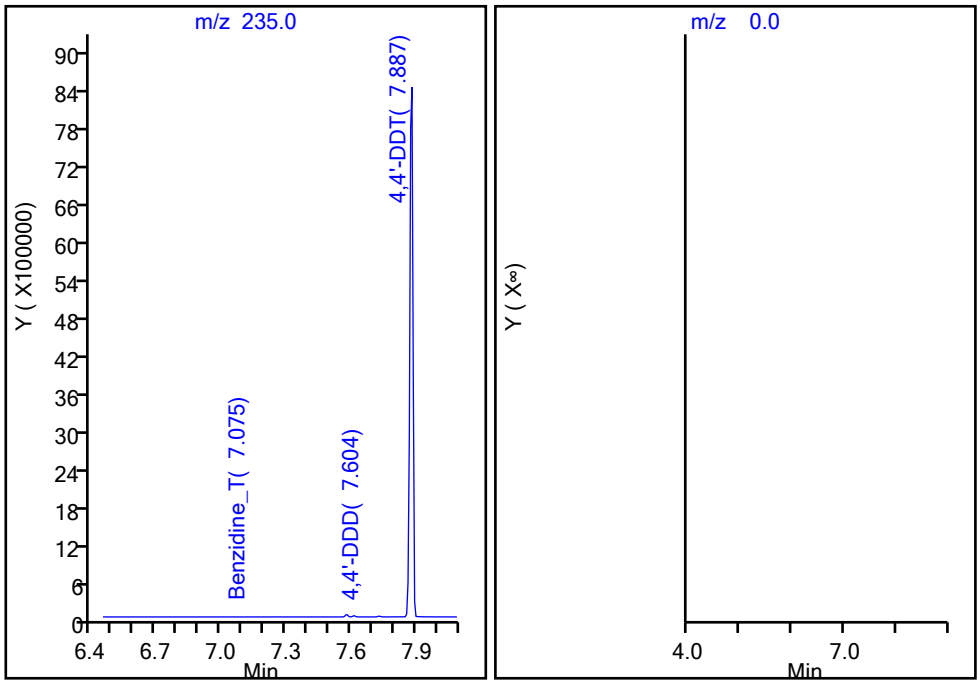


Breakdown Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP10623\20220809-63751.b\CH0900.D				
Injection Date:	09-Aug-2022 14:50:30	Instrument ID:	HP10623		
Lims ID:	DFTPP				
Client ID:					
Operator ID:	apb10206	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP10623	Limit Group:	MSSV - 8270D_E SIM		

49 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

49 4,4'-DDT, Area = 8724932
47 4,4'-DDE, Area = 0
48 4,4'-DDD, Area = 18192

%Breakdown: 0.21%, <= 20.00%
Passed

Peak Tailing Report

Eurofins Lancaster Laboratories Environment Testing, LLC

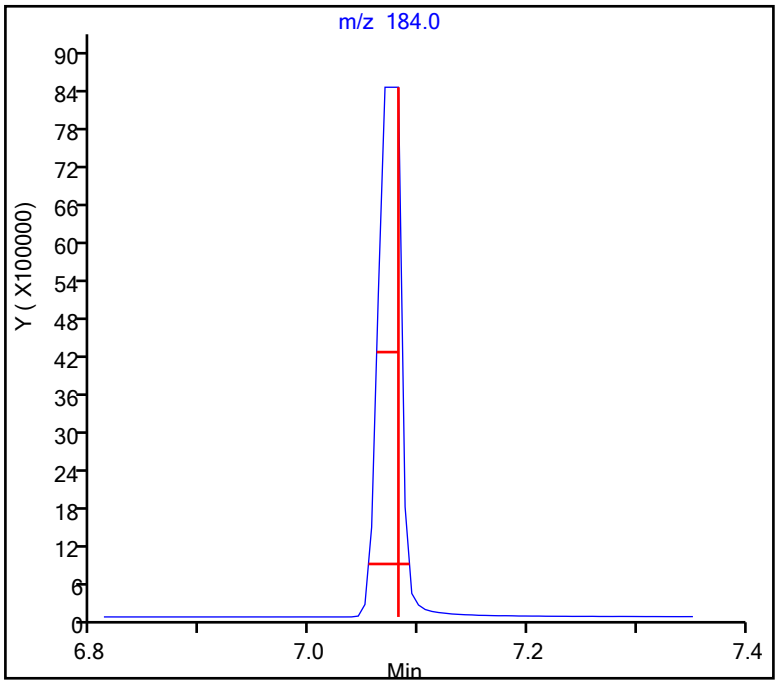
Data File: \\chromfs\Lancaster\ChromData\HP10623\20220809-63751.b\CH0900.D
Injection Date: 09-Aug-2022 14:50:30 Instrument ID: HP10623
Lims ID: DFTPP
Client ID:
Operator ID: apb10206 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP10623 Limit Group: MSSV - 8270D_E SIM

46 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.010 (min.)
Front Width = 0.028 (min.)

Tailing Factor = 0.36, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Environment Testing, LLC

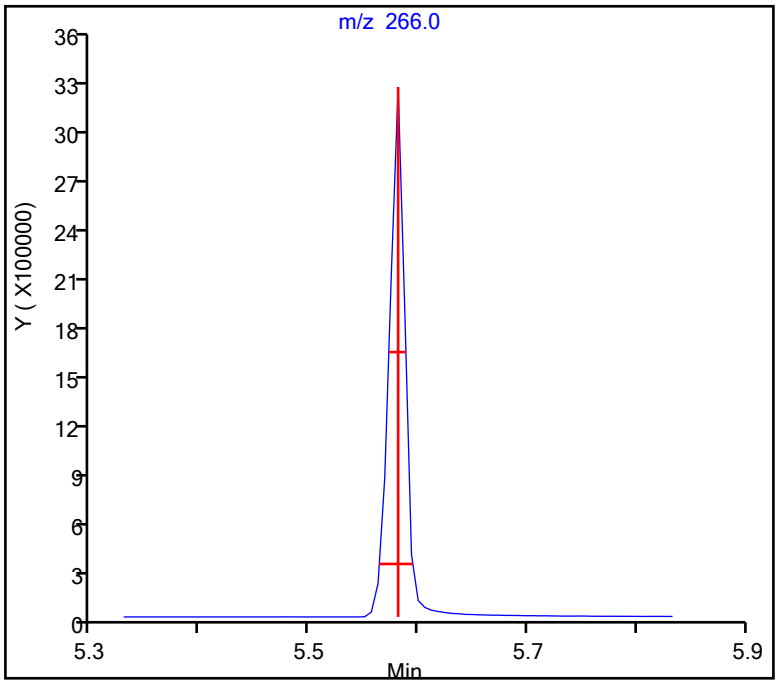
Data File: \\chromfs\Lancaster\ChromData\HP10623\20220809-63751.b\CH0900.D
Injection Date: 09-Aug-2022 14:50:30 Instrument ID: HP10623
Lims ID: DFTPP
Client ID:
Operator ID: apb10206 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP10623 Limit Group: MSSV - 8270D_E SIM

44 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.014 (min.)
Front Width = 0.017 (min.)

Tailing Factor = 0.82, Max. Tailing <= 2.00
Passed



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP10623\20220914-66354.b\CI0600.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 14-Sep-2022 15:43:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Misc. Info.: 410-0066354-001
Operator ID: kel10217 Instrument ID: HP10623

Method: \\chromfs\Lancaster\ChromData\HP10623\20220914-66354.b\8270_SIM_HP10623.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 14-Sep-2022 17:55:17 Calib Date: 09-Aug-2022 17:46:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP10623\20220809-63751.b\CH0907.D

Column 1 : Rxi-.5SilMS 30m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1630

First Level Reviewer: SJ89 Date: 14-Sep-2022 16:02:08

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
44 Pentachlorophenol_T	266	5.440	5.440	0.000	97	4824550	NR	NR	
45 DFTPP									
46 Benzidine_T	184	6.940	6.940	0.000	93	14074123	NR	NR	e
48 4,4'-DDD	235	7.444	7.444	0.000	97	237007		NR	
49 4,4'-DDT	235	7.739	7.739	0.000	98	8857915	NR	NR	eM

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
e - Potential Peak Saturated
Review Flags
M - Manually Integrated

Reagents:

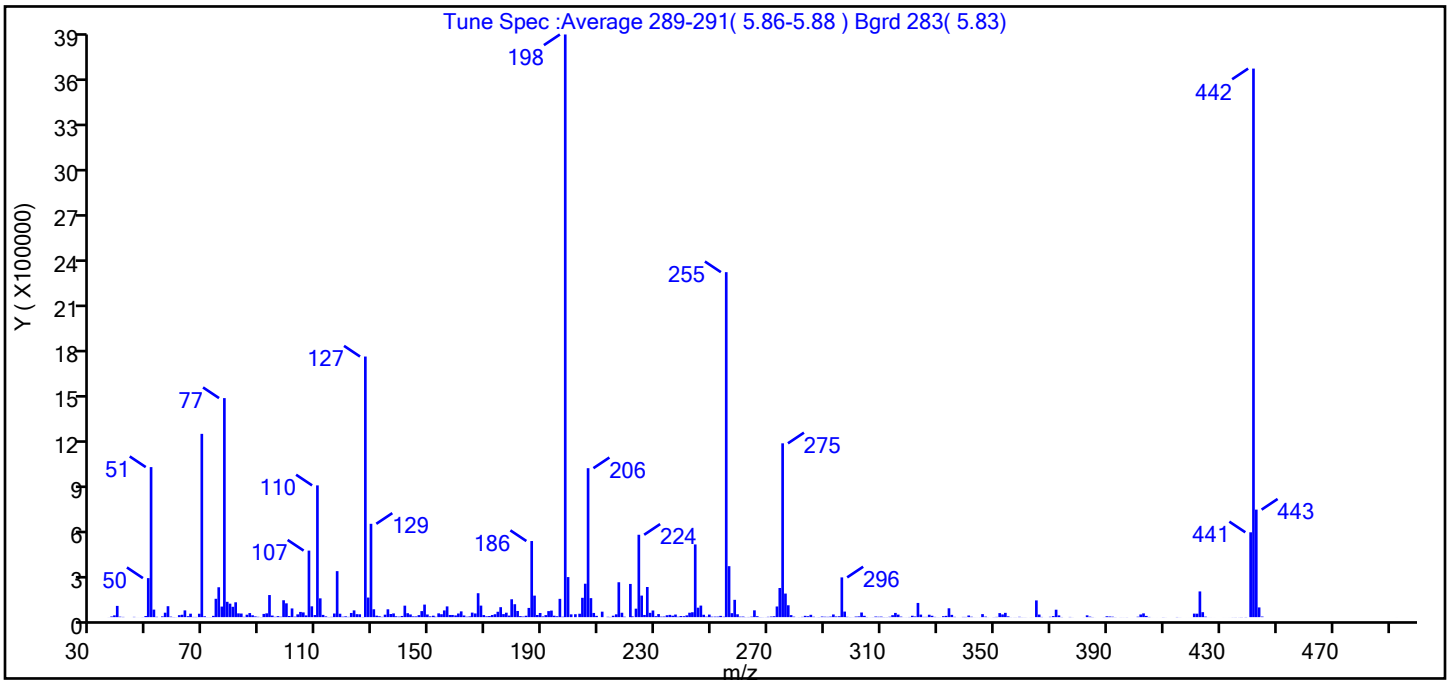
MSS_FVDFTPP_00016 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP10623\20220914-66354.b\CI0600.D
Injection Date: 14-Sep-2022 15:43:30 Instrument ID: HP10623
Lims ID: DFTPP
Client ID:
Operator ID: kel10217 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP10623 Limit Group: MSSV - 8270D_E SIM
Tune Method: DFTPP Method 8270D, BP 198

45 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (106.2)
51	10-80% of the base peak	25.8
68	<2% of mass 69	0.6 (1.9)
69	Present	31.5
70	<2% of mass 69	0.1 (0.5)
127	10-80% of the base peak	44.7
197	<2% of mass 198	0.1
199	5-9% of mass 198	6.9
275	10-60% of the base peak	29.8
365	>1% of mass 198	2.9
441	present but <24% of mass 442	14.6 (15.5)
442	base peak, or >50% of 198	94.1
443	15-24% of mass 442	18.5 (19.6)

Data File: \\chromfs\Lancaster\ChromData\HP10623\20220914-66354.b\CI0600.D\8270_SIM_HP10623.rslt\spectra.
Injection Date: 14-Sep-2022 15:43:30
Spectrum: Tune Spec :Average 289-291(5.86-5.88) Bgrd 283(5.83)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 388

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	367	135.00	51760	236.00	9489	333.00	8347
37.00	4496	136.00	20680	237.00	17136	334.00	58432
38.00	11672	137.00	24480	238.00	2770	335.00	14964
39.00	74120	138.00	5536	239.00	7378	336.00	1949
40.00	3045	139.00	3380	240.00	6292	337.00	207
41.00	1636	140.00	7764	241.00	11637	338.00	155
43.00	47	141.00	75720	242.00	29152	339.00	1541
44.00	69	142.00	26024	243.00	32240	340.00	1334
45.00	1726	143.00	17784	244.00	479232	341.00	10918
46.00	163	144.00	4946	245.00	62288	342.00	2683
47.00	138	145.00	4757	246.00	76128	343.00	375
48.00	583	146.00	13288	247.00	15687	344.00	250
49.00	7294	147.00	39840	248.00	3554	345.00	387
50.00	257152	148.00	82712	249.00	16856	346.00	19984
51.00	988672	149.00	17520	250.00	3147	347.00	3588
52.00	49632	150.00	5129	251.00	3445	348.00	413
53.00	2222	151.00	9572	252.00	3420	349.00	66
55.00	5060	152.00	2785	253.00	8388	350.00	668
56.00	29208	153.00	25008	254.00	2624	351.00	1677
57.00	72088	154.00	19264	255.00	2273280	352.00	26592
58.00	3303	155.00	44240	256.00	335872	353.00	17984
59.00	943	156.00	70816	257.00	26256	354.00	28288
60.00	545	157.00	14261	258.00	114088	355.00	5253
61.00	13062	158.00	14245	259.00	18936	356.00	457
62.00	15666	159.00	11288	260.00	3205	357.00	350
63.00	44568	160.00	23904	261.00	3647	358.00	469
64.00	6218	161.00	38040	262.00	731	359.00	2189
65.00	22784	162.00	10853	263.00	1252	360.00	550
66.00	1431	163.00	2885	264.00	3170	361.00	443
67.00	1420	164.00	4885	265.00	44864	362.00	143
68.00	22368	165.00	29848	266.00	6090	363.00	337
69.00	1207808	166.00	24216	267.00	883	364.00	247
70.00	5645	167.00	157696	268.00	646	365.00	110240

Report Date: 14-Sep-2022 17:55:18 Chrom Revision: 2.3 30-Aug-2022 19:06:20
Data File: \\chromfs\Lancaster\ChromData\HP10623\20220914-66354.b\CI0600.D\8270_SIM_HP10623.rslt\spectra.
Injection Date: 14-Sep-2022 15:43:30
Spectrum: Tune Spec :Average 289-291(5.86-5.88) Bgrd 283(5.83)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 388

m/z	Y	m/z	Y	m/z	Y	m/z	Y
71.00	680	168.00	76008	269.00	481	366.00	16992
72.00	838	169.00	13480	270.00	2147	367.00	1374
73.00	8391	170.00	5282	271.00	4081	368.00	110
74.00	120960	171.00	7324	272.00	5932	369.00	117
75.00	196928	172.00	13926	273.00	70296	370.00	2203
76.00	69608	173.00	19232	274.00	192064	371.00	6802
77.00	1443328	174.00	35512	275.00	1145344	372.00	49008
78.00	101088	175.00	65712	276.00	155392	373.00	11490
79.00	88856	176.00	20136	277.00	78272	374.00	1119
80.00	68232	177.00	29288	278.00	13342	375.00	63
81.00	97920	178.00	10308	279.00	3091	377.00	1359
82.00	24848	179.00	117832	280.00	278	378.00	357
83.00	23760	180.00	85176	281.00	628	382.00	318
84.00	2008	181.00	40616	282.00	1839	383.00	11885
85.00	16034	182.00	6740	283.00	8720	384.00	3332
86.00	26888	183.00	3981	284.00	6228	385.00	1036
87.00	12283	184.00	9102	285.00	15471	386.00	143
88.00	4755	185.00	60776	286.00	2601	389.00	411
89.00	2310	186.00	501504	287.00	425	390.00	5847
90.00	816	187.00	141760	288.00	896	391.00	4199
91.00	21312	188.00	14059	289.00	4088	392.00	3081
92.00	25112	189.00	27440	290.00	2779	393.00	611
93.00	145600	190.00	4797	291.00	2095	395.00	383
94.00	10369	191.00	13242	292.00	3586	396.00	324
95.00	2149	192.00	39808	293.00	17640	397.00	566
96.00	6627	193.00	43232	294.00	4360	401.00	2765
97.00	2696	194.00	9348	295.00	5617	402.00	17552
98.00	111296	195.00	5810	296.00	261952	403.00	24824
99.00	91040	196.00	120600	297.00	36608	404.00	8088
100.00	7663	197.00	2540	298.00	2264	405.00	1369
101.00	57416	198.00	3839488	299.00	733	406.00	127
102.00	3310	199.00	264000	300.00	396	407.00	76
103.00	18344	200.00	18408	301.00	3789	408.00	93
104.00	34464	202.00	19248	302.00	4920	409.00	67

Report Date: 14-Sep-2022 17:55:18 Chrom Revision: 2.3 30-Aug-2022 19:06:20
Data File: \\chromfs\Lancaster\ChromData\HP10623\20220914-66354.b\CI0600.D\8270_SIM_HP10623.rslt\spectra.
Injection Date: 14-Sep-2022 15:43:30
Spectrum: Tune Spec :Average 289-291(5.86-5.88) Bgrd 283(5.83)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 388

m/z	Y	m/z	Y	m/z	Y	m/z	Y
105.00	31296	203.00	22344	303.00	30616	410.00	681
106.00	11361	204.00	127504	304.00	8673	411.00	233
107.00	438400	205.00	220224	305.00	1194	415.00	1076
108.00	71336	206.00	981632	306.00	349	416.00	303
109.00	13841	207.00	125240	307.00	542	418.00	54
110.00	868224	208.00	27704	308.00	3997	419.00	58
111.00	123864	209.00	8510	309.00	2809	420.00	171
112.00	14864	211.00	36128	310.00	3360	421.00	23184
113.00	4915	213.00	2418	311.00	877	422.00	22808
114.00	1103	214.00	1262	312.00	774	423.00	169472
115.00	1845	215.00	9375	313.00	2611	424.00	32784
116.00	23944	216.00	18536	314.00	13030	425.00	3350
117.00	303168	217.00	229952	315.00	27840	426.00	230
118.00	22432	218.00	28984	316.00	16680	427.00	160
119.00	2880	219.00	2875	317.00	3398	428.00	101
120.00	5432	221.00	218816	318.00	339	431.00	86
121.00	1989	222.00	5211	319.00	425	432.00	69
122.00	27512	223.00	55832	320.00	1222	433.00	135
123.00	44464	224.00	542912	321.00	9129	434.00	236
124.00	19616	225.00	142080	322.00	4564	435.00	268
125.00	18800	226.00	14426	323.00	93568	436.00	591
126.00	971	227.00	198592	324.00	16744	437.00	439
127.00	1717248	228.00	28416	325.00	1692	438.00	792
128.00	129136	229.00	43816	326.00	1856	439.00	1022
129.00	615104	230.00	6184	327.00	15945	441.00	559104
130.00	51872	231.00	20160	328.00	9039	442.00	3614720
131.00	9804	232.00	3458	329.00	1750	443.00	708480
132.00	5864	233.00	3979	330.00	530	444.00	64080
133.00	1821	234.00	12441	331.00	474	445.00	3916
134.00	16242	235.00	15029	332.00	6106	493.00	65

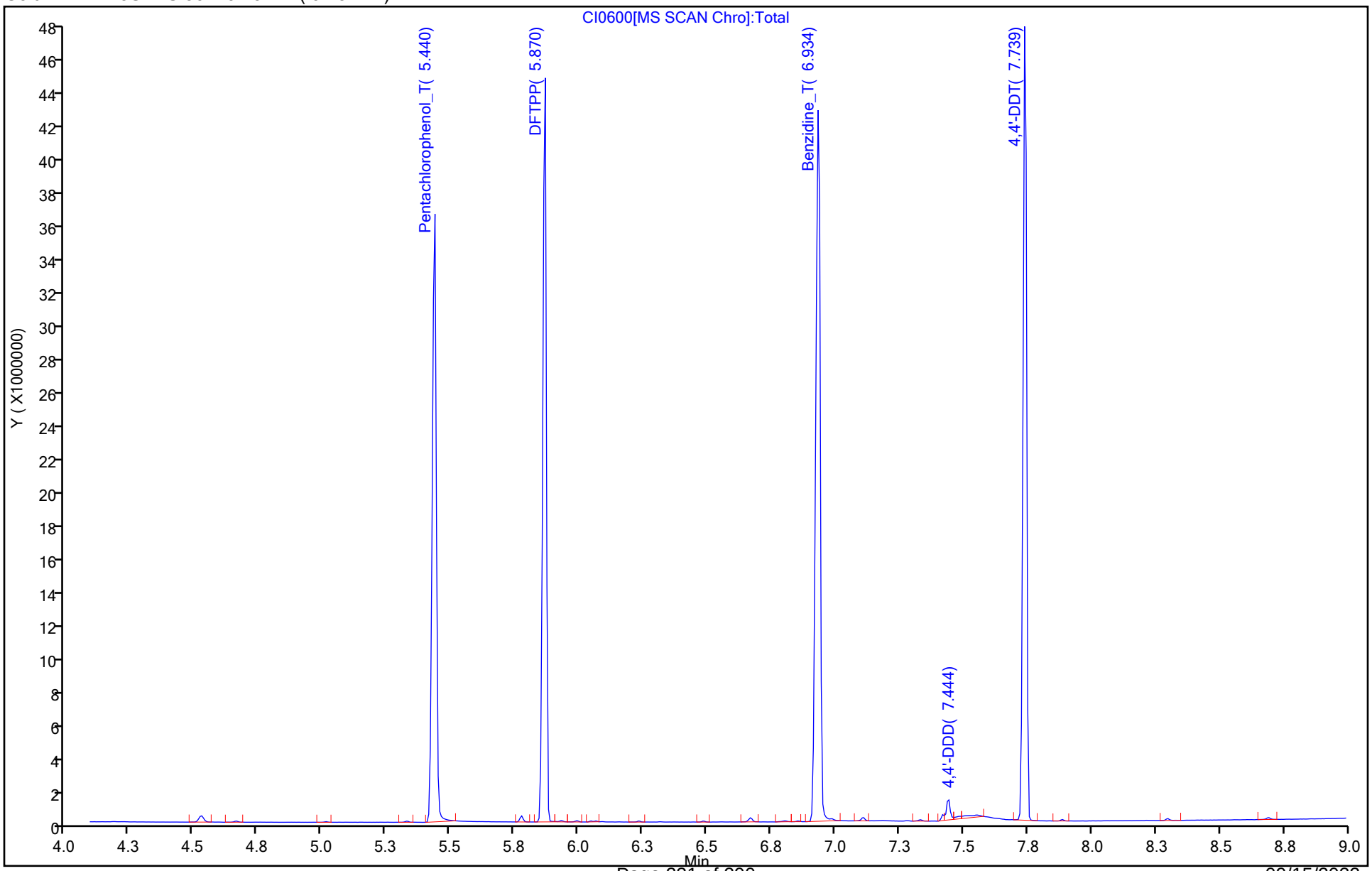
Report Date: 14-Sep-2022 17:55:18 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP10623\20220914-66354.b\CI0600.D

Injection Date:	14-Sep-2022 15:43:30	Instrument ID:	HP10623	Operator ID:	kel10217
Lims ID:	DFTPP			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8270_SIM_HP10623	Limit Group:	MSSV - 8270D_E SIM		

Column: Rxi-.5SilMS 30m 0.25mm (0.25 mm)



Breakdown Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP10623\20220914-66354.b\CI0600.D
Injection Date: 14-Sep-2022 15:43:30 Instrument ID: HP10623
Lims ID: DFTPP
Client ID:
Operator ID: kel10217 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP10623 Limit Group: MSSV - 8270D_E SIM

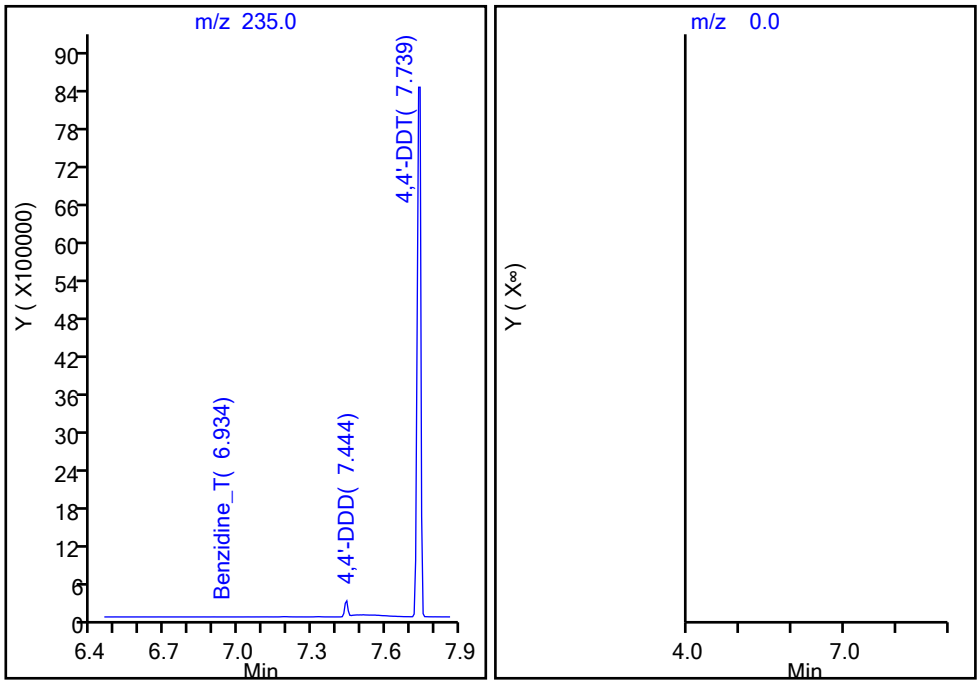
49 4,4'-DDT, Detector: MS SCAN

SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

49 4,4'-DDT, Area = 8857915
47 4,4'-DDE, Area = 0
48 4,4'-DDD, Area = 237007

%Breakdown: 2.61%, <= 20.00%
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Environment Testing, LLC

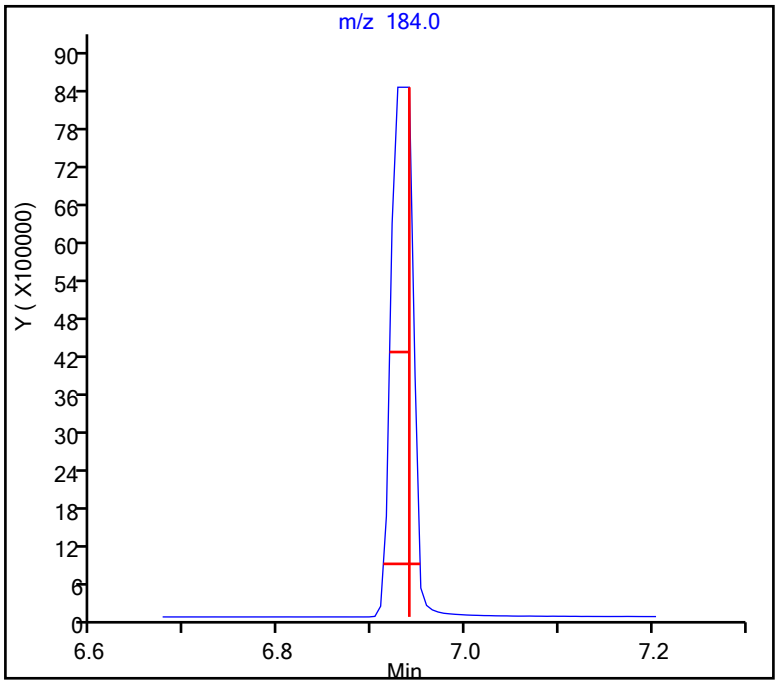
Data File: \\chromfs\Lancaster\ChromData\HP10623\20220914-66354.b\CI0600.D
Injection Date: 14-Sep-2022 15:43:30 Instrument ID: HP10623
Lims ID: DFTPP
Client ID:
Operator ID: kel10217 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP10623 Limit Group: MSSV - 8270D_E SIM

46 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.012 (min.)
Front Width = 0.028 (min.)

Tailing Factor = 0.43, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Environment Testing, LLC

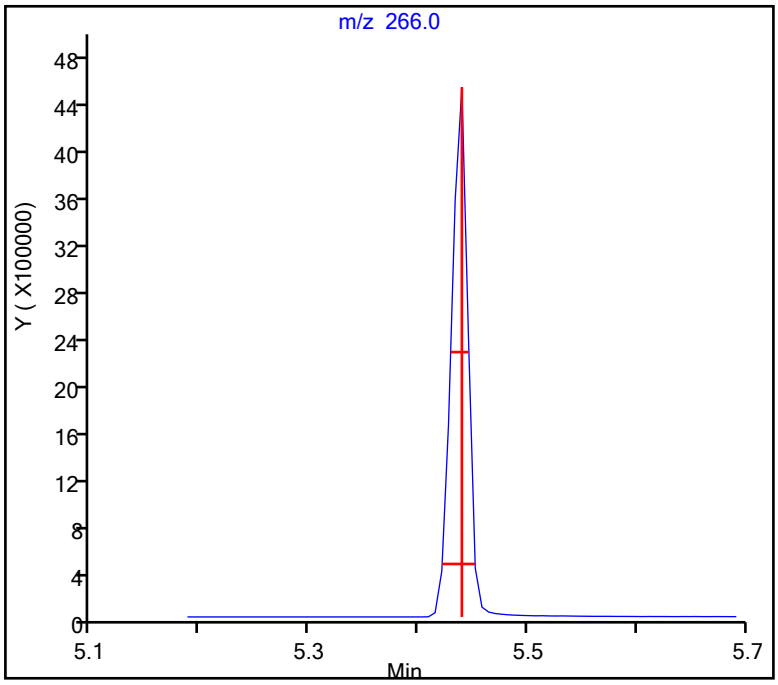
Data File: \\chromfs\Lancaster\ChromData\HP10623\20220914-66354.b\CI0600.D
Injection Date: 14-Sep-2022 15:43:30 Instrument ID: HP10623
Lims ID: DFTPP
Client ID:
Operator ID: kel10217 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP10623 Limit Group: MSSV - 8270D_E SIM

44 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.012 (min.)
Front Width = 0.018 (min.)

Tailing Factor = 0.67, Max. Tailing <= 2.00
Passed



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20220429-56077.b\ND1400.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 29-Apr-2022 14:24:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Misc. Info.: 410-0056077-001
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20220429-56077.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 29-Apr-2022 18:27:46 Calib Date: 29-Apr-2022 17:03:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20220429-56077.b\ND1406.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1632

First Level Reviewer: saadehw Date: 29-Apr-2022 15:07:37

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
44 Pentachlorophenol_T	266	4.490	4.490	0.000	95	3411755	NR	NR	
45 DFTPP									
46 Benzidine_T	184	5.777	5.777	0.000	93	9564337	NR	NR	e
47 4,4'-DDE	246	5.928	5.928	0.000	78	16128		NR	
48 4,4'-DDD	235	6.211	6.211	0.000	93	117375		NR	
49 4,4'-DDT	235	6.465	6.465	0.000	94	6947393	NR	NR	e

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
e - Potential Peak Saturated

Reagents:

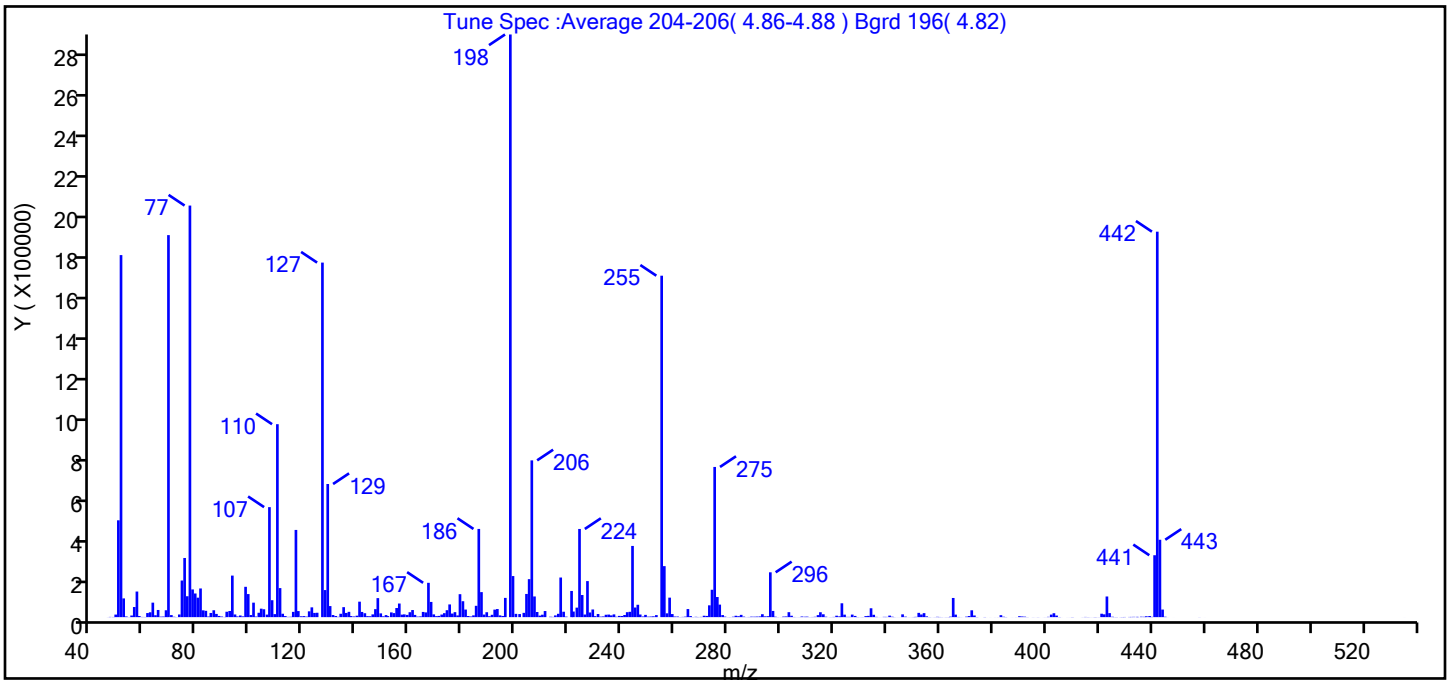
MSS_RVDFTPP_00009 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20220429-56077.b\ND1400.D
Injection Date: 29-Apr-2022 14:24:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM
Tune Method: DFTPP Method 8270D, BP 198

45 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (151.2)
51	10-80% of the base peak	62.1
68	<2% of mass 69	1.2 (1.8)
69	Present	65.6
70	<2% of mass 69	0.4 (0.5)
127	10-80% of the base peak	60.9
197	<2% of mass 198	0.0
199	5-9% of mass 198	7.1
275	10-60% of the base peak	25.8
365	>1% of mass 198	3.3
441	present but <24% of mass 442	10.6 (16.1)
442	base peak, or >50% of 198	66.2
443	15-24% of mass 442	13.3 (20.1)

Data File: \\chromfs\Lancaster\ChromData\HP23263\20220429-56077.b\ND1400.D\8270_SIM_HP23263.rslt\spectra
Injection Date: 29-Apr-2022 14:24:30
Spectrum: Tune Spec :Average 204-206(4.86-4.88) Bgrd 196(4.82)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 392

m/z	Y	m/z	Y	m/z	Y	m/z	Y
46.00	270	145.00	4351	247.00	12931	346.00	13756
47.00	1120	146.00	13566	248.00	3220	347.00	2552
48.00	886	147.00	39336	249.00	11169	348.00	350
49.00	12595	148.00	93640	250.00	2514	349.00	299
50.00	476416	149.00	18560	251.00	3048	350.00	815
51.00	1781248	150.00	4096	252.00	4064	351.00	1458
52.00	92152	151.00	10114	253.00	10027	352.00	21048
53.00	3266	152.00	5256	255.00	1679872	353.00	13012
54.00	483	153.00	23288	256.00	250944	354.00	19688
55.00	7935	154.00	19832	257.00	18792	355.00	3750
56.00	49784	155.00	44904	258.00	95920	356.00	582
57.00	125976	156.00	67024	259.00	15166	357.00	212
58.00	5462	157.00	12381	260.00	2961	358.00	482
59.00	1056	158.00	13552	261.00	3006	359.00	1524
60.00	836	159.00	11159	262.00	628	360.00	914
61.00	20160	160.00	24224	263.00	1260	361.00	487
62.00	23920	161.00	34968	264.00	2585	362.00	511
63.00	71328	162.00	11004	265.00	39800	363.00	692
64.00	9306	163.00	2657	266.00	5449	364.00	2375
65.00	35256	164.00	3758	267.00	700	365.00	94368
66.00	2510	165.00	25616	268.00	1597	366.00	12422
67.00	2964	166.00	23264	269.00	829	367.00	982
68.00	33840	167.00	168896	270.00	1262	368.00	340
69.00	1879552	168.00	74848	271.00	6909	369.00	73
70.00	10078	169.00	13568	272.00	6042	370.00	2425
71.00	1849	170.00	4860	273.00	58152	371.00	5378
72.00	642	171.00	6105	274.00	134720	372.00	33688
73.00	13091	172.00	12746	275.00	738944	373.00	8109
74.00	180160	173.00	19552	276.00	98944	374.00	720
75.00	291072	174.00	34208	277.00	61632	377.00	740
76.00	102840	175.00	62552	278.00	10125	378.00	73
77.00	2024960	176.00	17680	279.00	2524	379.00	144
78.00	136320	177.00	24528	280.00	503	381.00	192

Report Date: 29-Apr-2022 18:27:46 Chrom Revision: 2.3 12-Apr-2022 20:29:44
Data File: \\chromfs\Lancaster\ChromData\HP23263\20220429-56077.b\ND1400.D\8270_SIM_HP23263.rslt\spectra
Injection Date: 29-Apr-2022 14:24:30
Spectrum: Tune Spec :Average 204-206(4.86-4.88) Bgrd 196(4.82)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 392

m/z	Y	m/z	Y	m/z	Y	m/z	Y
79.00	116360	178.00	8449	281.00	576	382.00	279
80.00	95800	179.00	112952	282.00	2170	383.00	9683
81.00	141120	180.00	78344	283.00	6833	384.00	1973
82.00	33528	181.00	37336	284.00	4583	385.00	752
83.00	31112	182.00	5624	285.00	11224	387.00	121
84.00	3147	183.00	3363	286.00	2544	388.00	92
85.00	20544	184.00	8782	287.00	449	389.00	277
86.00	33824	185.00	55760	288.00	904	390.00	4659
87.00	15889	186.00	433984	289.00	2495	391.00	3238
88.00	5893	187.00	123112	290.00	2251	392.00	2333
89.00	3008	188.00	12743	291.00	2793	393.00	529
90.00	987	189.00	24176	292.00	3519	395.00	290
91.00	26592	190.00	4533	293.00	14424	396.00	141
92.00	30280	191.00	11515	294.00	3855	397.00	432
93.00	204416	192.00	37024	295.00	4615	398.00	64
94.00	13199	193.00	39856	296.00	220608	399.00	156
95.00	3576	194.00	8599	297.00	30488	400.00	268
96.00	8132	195.00	5859	298.00	2237	401.00	1480
97.00	3777	196.00	94672	299.00	514	402.00	12472
98.00	149248	198.00	2866688	300.00	299	403.00	19240
99.00	113520	199.00	202112	301.00	2808	404.00	7725
100.00	10298	200.00	16172	302.00	3341	405.00	745
101.00	71280	201.00	15262	303.00	24376	406.00	105
102.00	2923	203.00	21112	304.00	6821	408.00	146
103.00	21520	204.00	114104	305.00	918	409.00	170
104.00	41728	205.00	186880	306.00	351	410.00	699
105.00	38784	206.00	771328	307.00	437	411.00	55
106.00	12484	207.00	101744	308.00	3152	414.00	99
107.00	541248	208.00	25288	309.00	2075	414.00	276
108.00	83280	209.00	7512	310.00	2480	415.00	1009
109.00	14836	210.00	11940	311.00	531	416.00	623
110.00	949312	211.00	30024	312.00	891	417.00	256
111.00	142912	213.00	1970	313.00	1799	418.00	430
112.00	16704	214.00	1280	314.00	9924	419.00	607

Report Date: 29-Apr-2022 18:27:46 Chrom Revision: 2.3 12-Apr-2022 20:29:44
Data File: \\chromfs\Lancaster\ChromData\HP23263\20220429-56077.b\ND1400.D\8270_SIM_HP23263.rslt\spectra
Injection Date: 29-Apr-2022 14:24:30
Spectrum: Tune Spec :Average 204-206(4.86-4.88) Bgrd 196(4.82)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 392

m/z	Y	m/z	Y	m/z	Y	m/z	Y
113.00	5167	215.00	8549	315.00	24128	420.00	416
114.00	1336	216.00	16456	316.00	14087	421.00	16800
115.00	1854	217.00	194944	317.00	2135	422.00	13837
116.00	25952	218.00	26624	318.00	188	423.00	101640
117.00	429056	219.00	2513	319.00	474	424.00	19776
118.00	29856	221.00	128808	320.00	1124	425.00	1967
119.00	4254	222.00	27528	321.00	7095	426.00	462
120.00	5090	223.00	46776	322.00	3916	427.00	627
121.00	2665	224.00	433856	323.00	68200	428.00	494
122.00	28616	225.00	108784	324.00	12236	429.00	715
123.00	48184	226.00	12923	325.00	1393	430.00	859
124.00	20848	227.00	177344	326.00	1323	432.00	974
125.00	21592	228.00	22936	327.00	12581	432.00	1098
127.00	1744384	229.00	37704	328.00	5983	433.00	1452
128.00	133184	230.00	4792	329.00	770	434.00	1333
129.00	655040	231.00	15390	330.00	385	435.00	1073
130.00	54464	232.00	2610	331.00	607	436.00	2258
131.00	10375	233.00	3552	332.00	4998	437.00	1876
132.00	5467	234.00	11787	333.00	6227	438.00	4322
133.00	1611	235.00	12588	334.00	43704	439.00	5433
134.00	16584	236.00	8675	335.00	11606	440.00	1416
135.00	49120	237.00	13519	336.00	1402	441.00	304576
136.00	20688	238.00	1957	337.00	264	442.00	1896448
137.00	26048	239.00	6172	338.00	170	443.00	380736
138.00	5341	240.00	5685	339.00	1432	444.00	37288
139.00	3329	241.00	10525	340.00	1270	445.00	2035
140.00	7130	242.00	24304	341.00	7552	446.00	159
141.00	76144	243.00	26224	342.00	2210	448.00	60
142.00	25592	244.00	350336	343.00	508	458.00	345
143.00	19216	245.00	47392	344.00	228	460.00	63
144.00	4927	246.00	60888	345.00	226	535.00	71

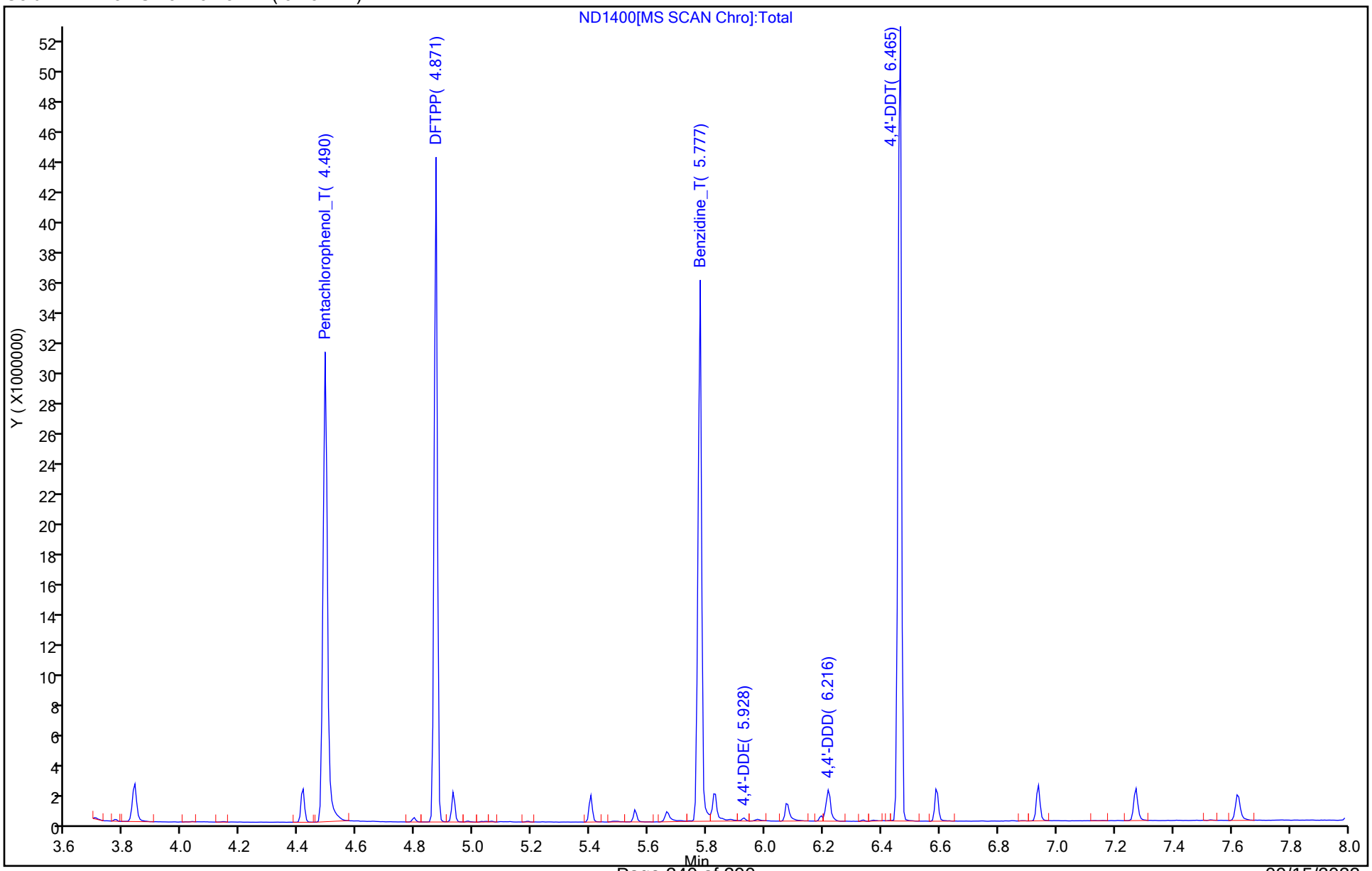
Report Date: 29-Apr-2022 18:27:46 Chrom Revision: 2.3 12-Apr-2022 20:29:44

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20220429-56077.b\ND1400.D

Injection Date:	29-Apr-2022 14:24:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	DFTPP			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Breakdown Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20220429-56077.b\ND1400.D
Injection Date: 29-Apr-2022 14:24:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM

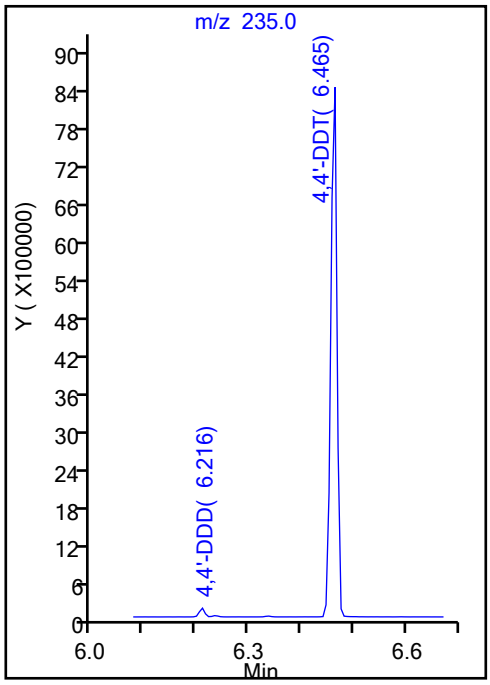
49 4,4'-DDT, Detector: MS SCAN

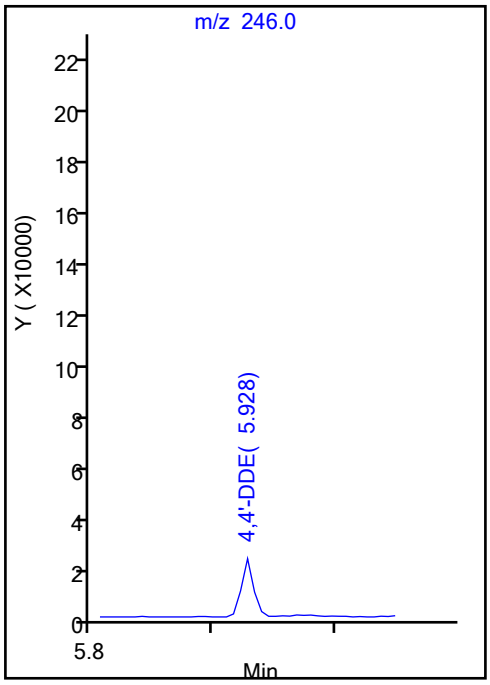
SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

49 4,4'-DDT, Area = 6947393
47 4,4'-DDE, Area = 16128
48 4,4'-DDD, Area = 117375

%Breakdown: 1.89%, <= 20.00%
Passed





Peak Tailing Report

Eurofins Lancaster Laboratories Environment Testing, LLC

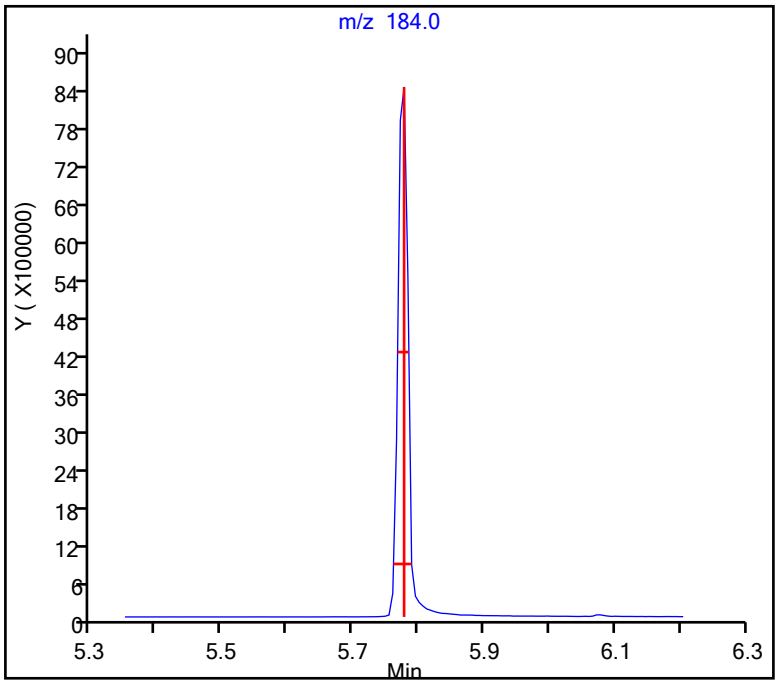
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Injection Date: 29-Apr-2022 14:24:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM

46 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.012 (min.)
Front Width = 0.016 (min.)

Tailing Factor = 0.75, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Environment Testing, LLC

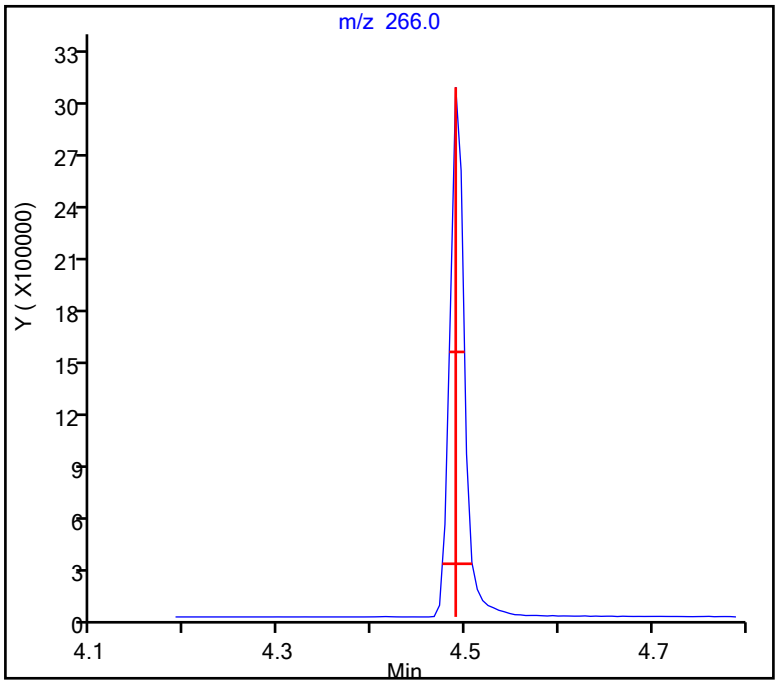
Data File: \\chromfs\Lancaster\ChromData\HP23263\20220429-56077.b\ND1400.D
Injection Date: 29-Apr-2022 14:24:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM

44 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.018 (min.)
Front Width = 0.014 (min.)

Tailing Factor = 1.29, Max. Tailing <= 2.00
Passed



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20220906-65655.b\NI0070.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 06-Sep-2022 07:01:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Misc. Info.: 410-0065655-001
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20220906-65655.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 06-Sep-2022 08:10:45 Calib Date: 29-Apr-2022 17:03:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20220429-56077.b\ND1406.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1626

First Level Reviewer: UJM0 Date: 06-Sep-2022 08:10:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
44 Pentachlorophenol_T	266	4.288	4.288	0.000	98	1666603	NR	NR	
45 DFTPP									
46 Benzidine_T	184	5.558	5.558	0.000	99	6378696	NR	NR	
48 4,4'-DDD	235	5.986	5.986	0.000	92	63475		NR	
49 4,4'-DDT	235	6.234	6.234	0.000	98	4346155	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

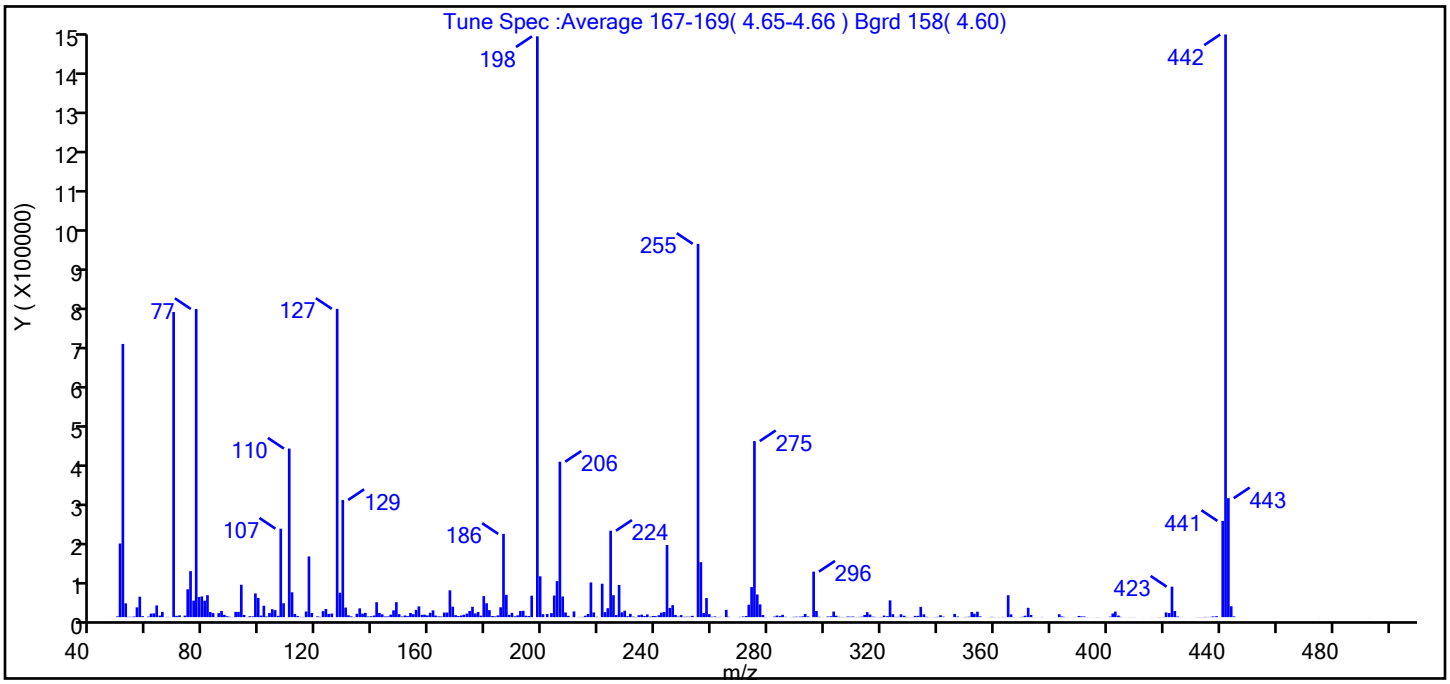
MSS_RVDFTPP_00011 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20220906-65655.b\NI0070.D
Injection Date: 06-Sep-2022 07:01:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM
Tune Method: DFTPP Method 8270D, BP 198

45 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (99.7)
51	10-80% of the base peak	47.0
68	<2% of mass 69	0.0 (0.0)
69	Present	52.5
70	<2% of mass 69	0.2 (0.4)
127	10-80% of the base peak	53.1
197	<2% of mass 198	0.0
199	5-9% of mass 198	7.0
275	10-60% of the base peak	30.3
365	>1% of mass 198	3.8
441	present but <24% of mass 442	16.6 (16.5)
442	base peak, or >50% of 198	100.3
443	15-24% of mass 442	20.5 (20.4)

Data File: \\chromfs\Lancaster\ChromData\HP23263\20220906-65655.b\NI0070.D\8270_SIM_HP23263.rslt\spectra.
Injection Date: 06-Sep-2022 07:01:30
Spectrum: Tune Spec :Average 167-169(4.65-4.66) Bgrd 158(4.60)
Base Peak: 442.10
Minimum % Base Peak: 0
Number of Points: 371

m/z	Y	m/z	Y	m/z	Y	m/z	Y
46.00	102	147.00	16952	244.00	179136	346.00	8203
49.00	1956	148.00	37160	245.00	22816	347.00	1589
50.00	182848	149.00	7364	246.00	29872	348.00	17
51.00	678400	150.00	1657	247.00	5589	349.00	215
52.00	34224	151.00	4150	248.00	1228	350.00	648
53.00	871	152.00	2530	249.00	5172	351.00	1143
54.00	846	153.00	10257	250.00	947	352.00	12797
55.00	1581	154.00	7425	251.00	1153	353.00	8395
56.00	24312	155.00	18080	252.00	1180	354.00	13427
57.00	50840	156.00	26816	253.00	3241	355.00	1875
58.00	2419	157.00	5776	255.00	926976	357.00	125
60.00	1465	158.00	6143	256.00	136512	358.00	104
61.00	8848	159.00	4159	257.00	10306	359.00	757
62.00	9378	160.00	10737	258.00	47360	360.00	403
63.00	29096	161.00	16840	259.00	7355	361.00	204
64.00	3870	162.00	3837	260.00	942	362.00	262
65.00	12956	163.00	1933	261.00	1787	363.00	598
66.00	147	164.00	1645	262.00	344	365.00	54424
67.00	746	165.00	11316	263.00	730	366.00	6912
69.00	757696	166.00	11468	265.00	18160	367.00	573
70.00	3235	167.00	66656	266.00	837	368.00	37
71.00	4386	168.00	25904	267.00	36	369.00	446
73.00	3733	169.00	5014	269.00	130	370.00	894
74.00	69192	170.00	2765	270.00	692	371.00	3520
75.00	114328	171.00	4036	271.00	1628	372.00	23160
76.00	41000	172.00	6052	272.00	2811	373.00	5257
77.00	765248	173.00	8681	273.00	30880	374.00	332
78.00	49896	174.00	15362	274.00	74672	375.00	66
79.00	51416	175.00	25784	275.00	437120	377.00	543
80.00	40808	176.00	9159	276.00	56272	380.00	54
81.00	54504	177.00	12670	277.00	31744	382.00	224
82.00	12666	178.00	3790	278.00	5228	383.00	7256
83.00	9957	179.00	52176	279.00	532	384.00	1770

Report Date: 06-Sep-2022 08:10:45 Chrom Revision: 2.3 30-Aug-2022 19:06:20
Data File: \\chromfs\Lancaster\ChromData\HP23263\20220906-65655.b\NI0070.D\8270_SIM_HP23263.rslt\spectra.
Injection Date: 06-Sep-2022 07:01:30
Spectrum: Tune Spec :Average 167-169(4.65-4.66) Bgrd 158(4.60)
Base Peak: 442.10
Minimum % Base Peak: 0
Number of Points: 371

m/z	Y	m/z	Y	m/z	Y	m/z	Y
84.00	213	180.00	34512	280.00	102	385.00	722
85.00	9960	181.00	17408	282.00	1468	386.00	254
86.00	15406	182.00	2844	283.00	3995	389.00	224
87.00	5752	183.00	1813	284.00	2680	390.00	2975
88.00	2311	184.00	4310	285.00	5742	391.00	1825
89.00	958	185.00	24488	286.00	814	392.00	1565
90.00	396	186.00	206784	288.00	291	393.00	321
91.00	13062	187.00	55432	289.00	760	395.00	209
92.00	13057	188.00	5708	290.00	1076	396.00	248
93.00	80464	189.00	10707	291.00	1194	397.00	279
94.00	5524	190.00	2083	292.00	1922	400.00	82
95.00	378	191.00	4494	293.00	7784	401.00	1191
96.00	2289	192.00	15314	294.00	1797	402.00	9115
97.00	1965	193.00	15708	296.00	113088	403.00	13744
98.00	58896	194.00	3427	297.00	15282	404.00	3968
99.00	47752	195.00	2929	298.00	800	405.00	708
100.00	3809	196.00	53344	299.00	161	406.00	120
101.00	28360	198.00	1442304	301.00	1575	407.00	132
102.00	1676	199.00	101528	302.00	2205	408.00	253
103.00	10277	200.00	7373	303.00	13843	409.00	163
104.00	19736	202.00	7719	304.00	3514	410.00	214
105.00	17408	203.00	10066	305.00	890	413.00	131
106.00	3225	204.00	53656	306.00	487	415.00	36
107.00	219712	205.00	89416	307.00	253	416.00	236
108.00	34576	206.00	385984	308.00	1506	417.00	6
110.00	418624	207.00	51240	309.00	1153	418.00	311
111.00	61760	208.00	11693	310.00	1553	419.00	212
112.00	7664	209.00	3268	311.00	311	420.00	319
113.00	2637	210.00	158	312.00	619	421.00	11716
114.00	651	211.00	14229	313.00	1161	422.00	10156
115.00	599	213.00	579	314.00	5379	423.00	75656
116.00	14046	214.00	602	315.00	12447	424.00	15202
117.00	150656	215.00	3496	316.00	6466	425.00	1527
118.00	10234	216.00	7904	317.00	1238	426.00	247

Report Date: 06-Sep-2022 08:10:45 Chrom Revision: 2.3 30-Aug-2022 19:06:20
Data File: \\chromfs\Lancaster\ChromData\HP23263\20220906-65655.b\NI0070.D\8270_SIM_HP23263.rslt\spectra.
Injection Date: 06-Sep-2022 07:01:30
Spectrum: Tune Spec :Average 167-169(4.65-4.66) Bgrd 158(4.60)
Base Peak: 442.10
Minimum % Base Peak: 0
Number of Points: 371

m/z	Y	m/z	Y	m/z	Y	m/z	Y
120.00	1952	217.00	86168	318.00	633	427.00	137
121.00	641	218.00	11756	319.00	360	428.00	67
122.00	14951	219.00	960	320.00	631	429.00	33
123.00	20216	221.00	83000	321.00	3878	430.00	63
124.00	8126	222.00	12421	322.00	2367	431.00	165
125.00	8914	223.00	22288	323.00	41696	432.00	363
127.00	765568	224.00	214592	324.00	7307	433.00	350
128.00	60536	225.00	54472	325.00	615	434.00	280
129.00	290944	226.00	5022	326.00	705	435.00	589
130.00	23816	227.00	79896	327.00	7094	436.00	589
131.00	4578	228.00	11923	328.00	3407	437.00	1033
132.00	1994	229.00	15953	329.00	628	438.00	1516
133.00	378	230.00	2304	330.00	317	439.00	2476
134.00	8437	231.00	8245	331.00	388	441.00	238976
135.00	21816	232.00	1393	332.00	3152	442.00	1446912
136.00	8750	233.00	405	333.00	3209	443.00	295360
137.00	10578	234.00	4879	334.00	25496	444.00	27072
138.00	1651	235.00	6190	335.00	6856	445.00	1830
139.00	2263	236.00	2873	336.00	934	447.00	99
140.00	3927	237.00	6732	337.00	276	449.00	68
141.00	37136	238.00	1253	338.00	150	450.00	73
142.00	10466	239.00	2926	339.00	435	459.00	60
143.00	6838	240.00	2427	340.00	812	475.00	109
144.00	1704	241.00	4804	341.00	4738	493.00	122
145.00	1664	242.00	11123	342.00	1141	503.00	55
146.00	6154	243.00	12739	345.00	218		

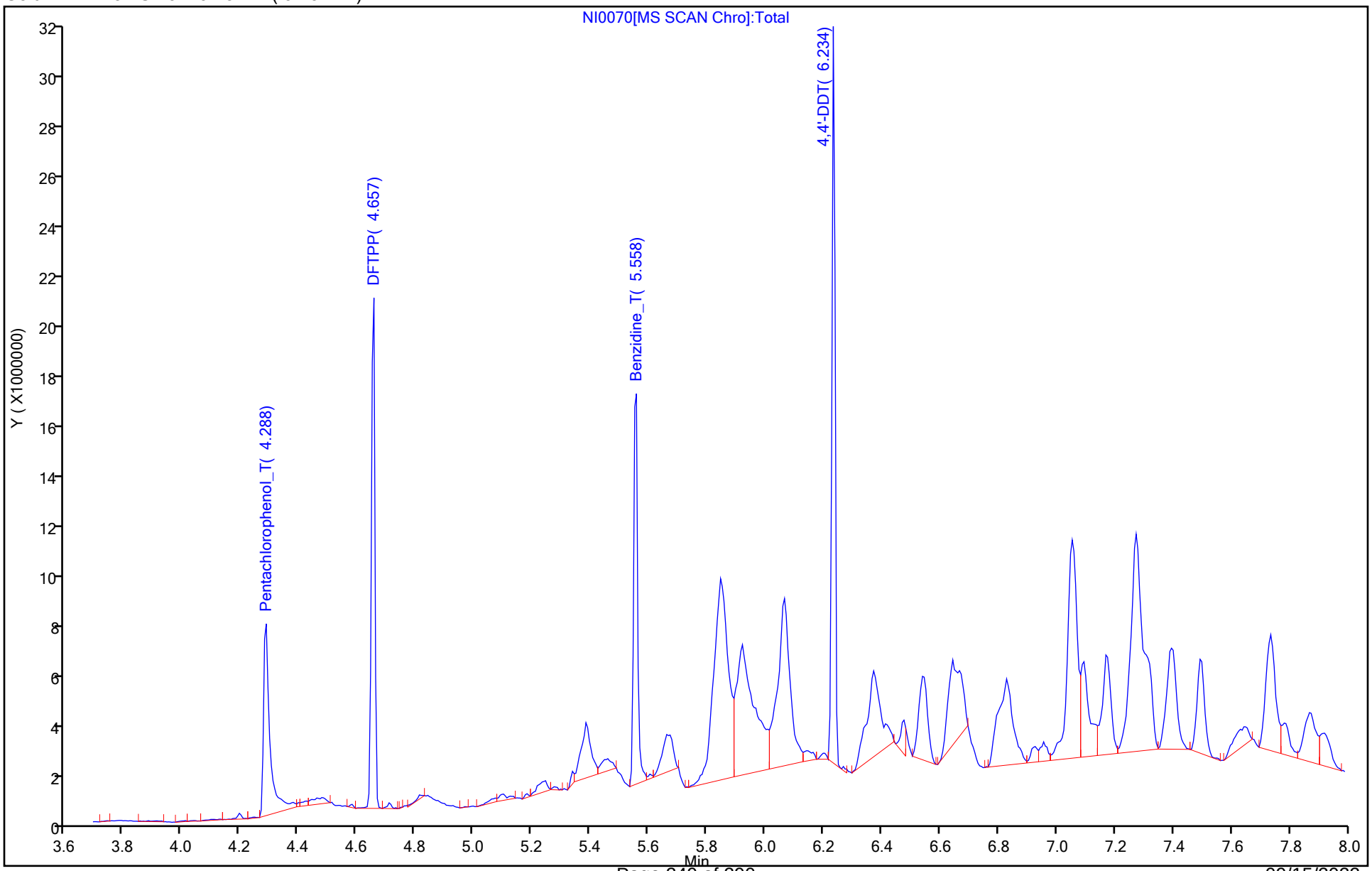
Report Date: 06-Sep-2022 08:10:45 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20220906-65655.b\NI0070.D

Injection Date:	06-Sep-2022 07:01:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	DFTPP			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)

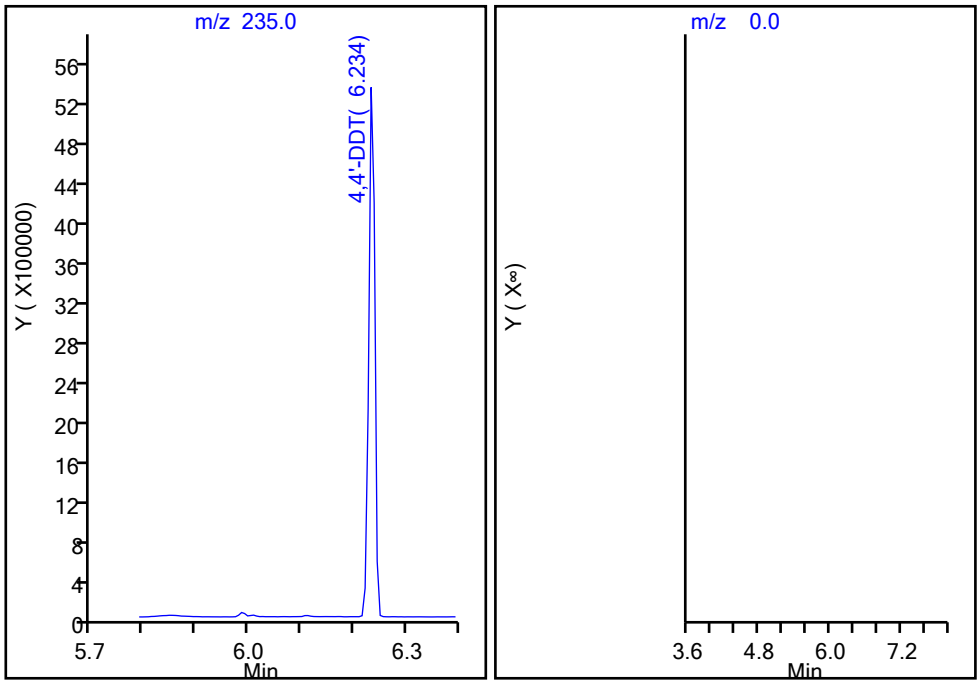


Breakdown Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20220906-65655.b\NI0070.D				
Injection Date:	06-Sep-2022 07:01:30	Instrument ID:	HP23263		
Lims ID:	DFTPP				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

49 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

49 4,4'-DDT, Area = 4346155
47 4,4'-DDE, Area = 0
48 4,4'-DDD, Area = 63475

%Breakdown: 1.44%, <= 20.00%
Passed

Peak Tailing Report

Eurofins Lancaster Laboratories Environment Testing, LLC

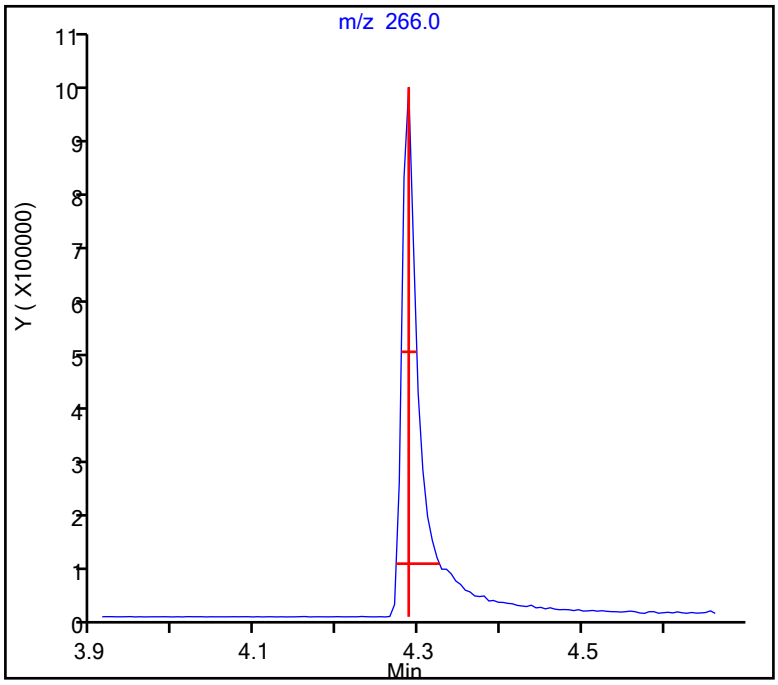
Data File: \\chromfs\Lancaster\ChromData\HP23263\20220906-65655.b\NI0070.D
Injection Date: 06-Sep-2022 07:01:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM

44 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.038 (min.)
Front Width = 0.015 (min.)

Tailing Factor = * 2.5, Max. Tailing <= 2.00
Failed



Peak Tailing Report

Eurofins Lancaster Laboratories Environment Testing, LLC

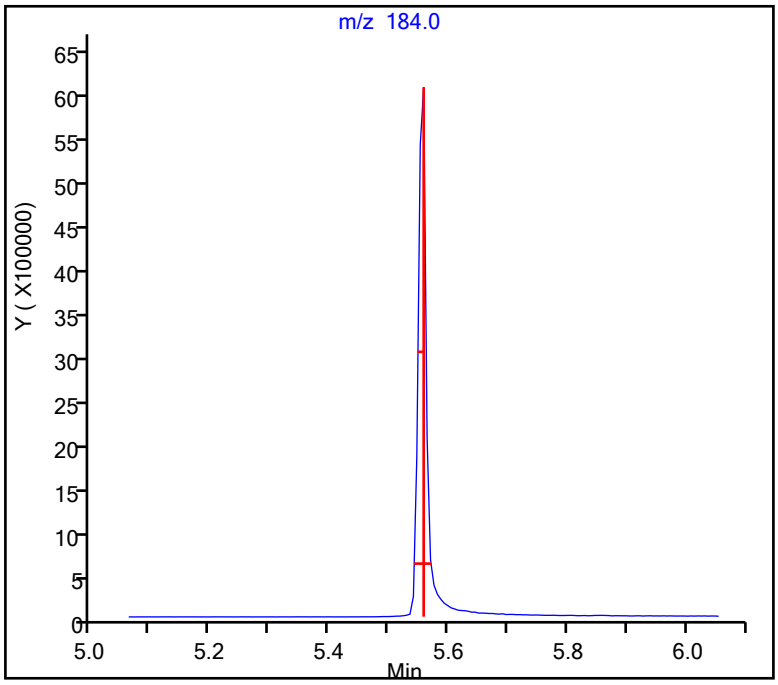
Data File: \\chromfs\Lancaster\ChromData\HP23263\20220906-65655.b\NI0070.D
Injection Date: 06-Sep-2022 07:01:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM

46 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.012 (min.)
Front Width = 0.016 (min.)

Tailing Factor = 0.75, Max. Tailing <= 2.00
Passed



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-96269-1

SDG No.:

Client Sample ID:
Lab Sample ID: MB 410-292631/1-A

Matrix: Water
Lab File ID: NI0072.D

Analysis Method: 8270E SIM
Date Collected:

Extract. Method: 3510C
Date Extracted: 09/03/2022 10:17

Sample wt/vol: 250(mL)
Date Analyzed: 09/06/2022 07:48

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 292808
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		0.30	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	97		10-110
93951-69-0	Fluoranthene-d10 (Surr)	88		47-128
38072-94-5	1-Methylnaphthalene-d10 (Surr)	79		36-111

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20220906-65655.b\NI0072.D
Lims ID: MB 410-292631/1-A
Client ID:
Sample Type: MB
Inject. Date: 06-Sep-2022 07:48:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: MB 410-292631/1-A
Misc. Info.: 410-0065655-003
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20220906-65655.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 06-Sep-2022 16:38:06 Calib Date: 29-Apr-2022 17:03:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20220429-56077.b\ND1406.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1660

First Level Reviewer: SJ89 Date: 06-Sep-2022 16:17:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	4.342	4.342	0.000	98	49463	0.2500	0.2500	
* 5 Naphthalene-d8	136	5.567	5.567	0.000	100	165467	0.2500	0.2500	
$ 9 1-Methylnaphthalene-d10	152	6.307	6.304	0.003	98	70863	0.2500	0.1965	
* 13 Acenaphthene-d10	164	7.238	7.236	0.002	95	79388	0.2500	0.2500	
* 20 Phenanthrene-d10	188	8.647	8.645	0.002	100	131088	0.2500	0.2500	
$ 24 Fluoranthene-d10 (Surr)	212	9.780	9.780	0.001	97	116402	0.2500	0.2193	
* 29 Chrysene-d12	240	11.250	11.249	0.001	82	97676	0.2500	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.007	13.006	0.001	97	96350	0.2500	0.2428	
* 38 Perylene-d12	264	13.114	13.113	0.001	98	105054	0.2500	0.2500	

QC Flag Legend
Processing Flags

Reagents:
MSS_RVSIM_IS_00031 Amount Added: 10.00 Units: uL Run Reagent

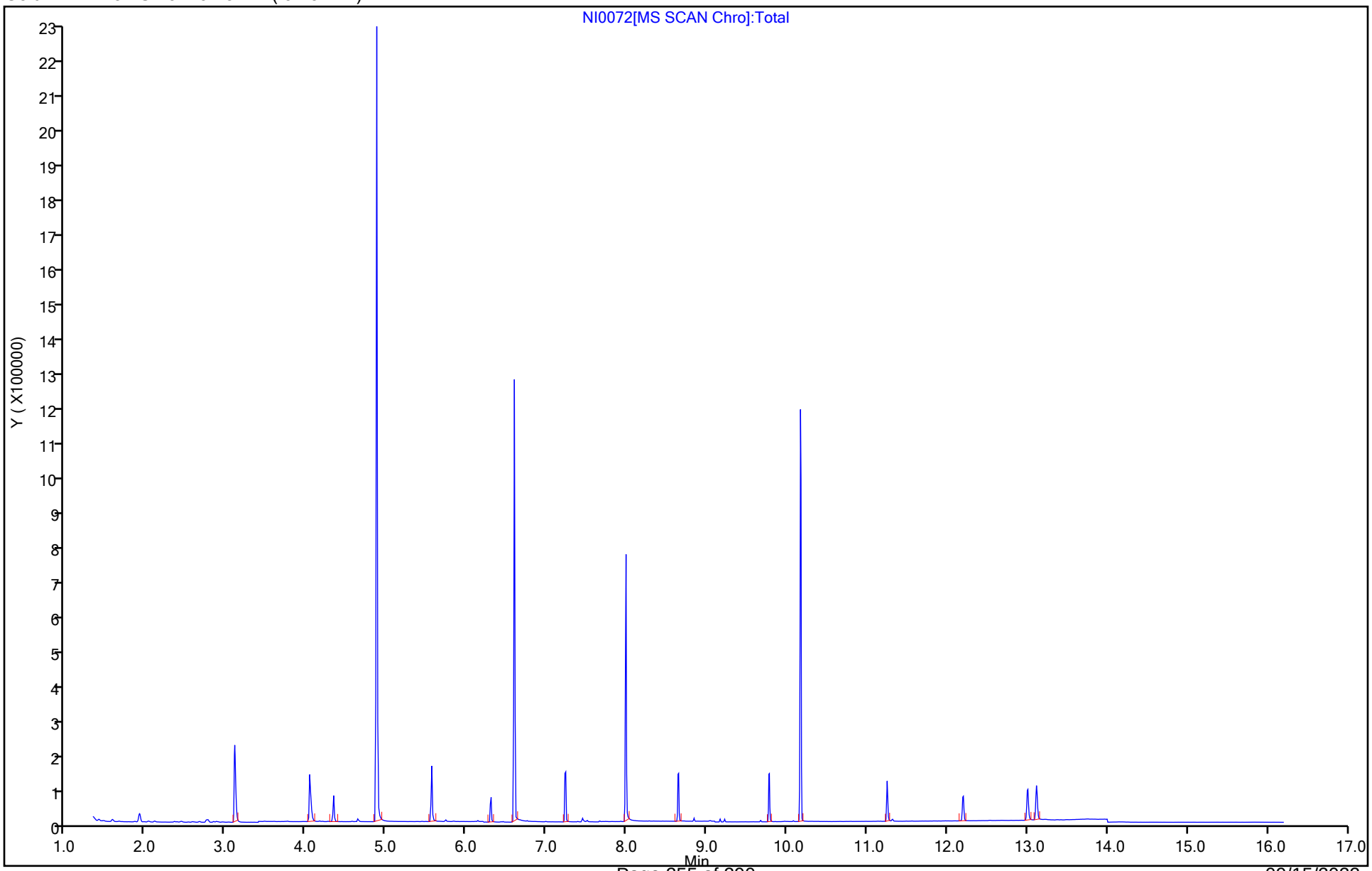
Report Date: 06-Sep-2022 16:42:10 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20220906-65655.b\NI0072.D

Injection Date:	06-Sep-2022 07:48:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	MB 410-292631/1-A			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20220906-65655.b\NI0072.D				
Lims ID:	MB 410-292631/1-A				
Client ID:					
Sample Type:	MB				
Inject. Date:	06-Sep-2022 07:48:30	ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	MB 410-292631/1-A				
Misc. Info.:	410-0065655-003				
Operator ID:	jmg00346	Instrument ID:	HP23263		
Method:	\\chromfs\Lancaster\ChromData\HP23263\20220906-65655.b\8270_SIM_HP23263.m				
Limit Group:	MSSV - 8270D_E SIM				
Last Update:	06-Sep-2022 16:38:06	Calib Date:	29-Apr-2022 17:03:30		
Integrator:	Falcon	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP23263\20220429-56077.b\ND1406.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1660				

First Level Reviewer: SJ89 Date: 06-Sep-2022 16:17:04

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1-Methylnaphthalene-d10	0.2500	0.1965	78.59
$ 24 Fluoranthene-d10 (Surr)	0.2500	0.2193	87.72
$ 36 Benzo(a)pyrene-d12 (Surr)	0.2500	0.2428	97.11

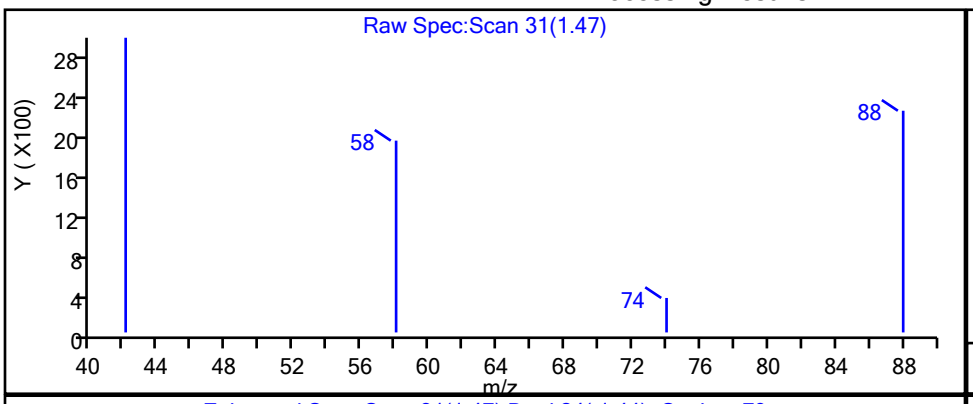
User Disabled Compound Report

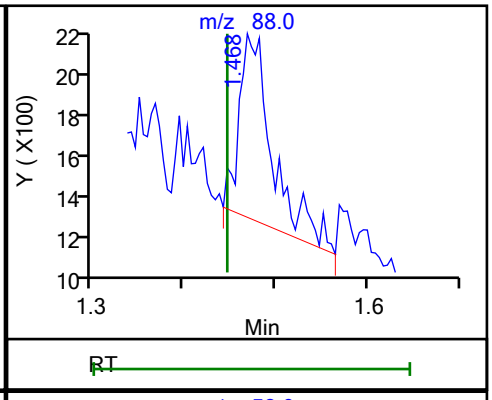
Eurofins Lancaster Laboratories Environment Testing, LLC

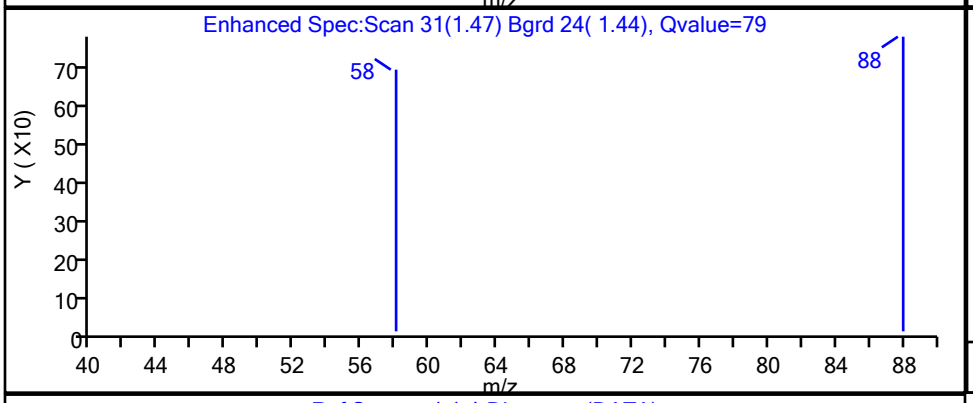
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20220906-65655.b\NI0072.D				
Injection Date:	06-Sep-2022 07:48:30	Instrument ID:	HP23263		
Lims ID:	MB 410-292631/1-A				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

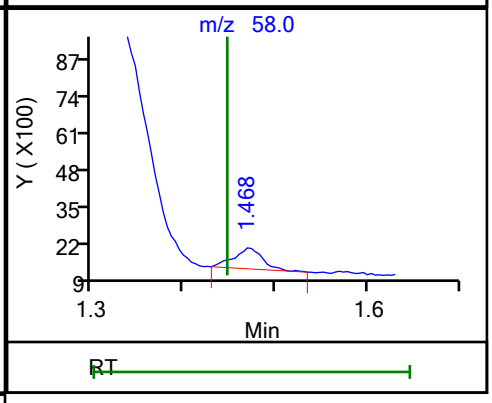
1 1,4-Dioxane, CAS: 123-91-1

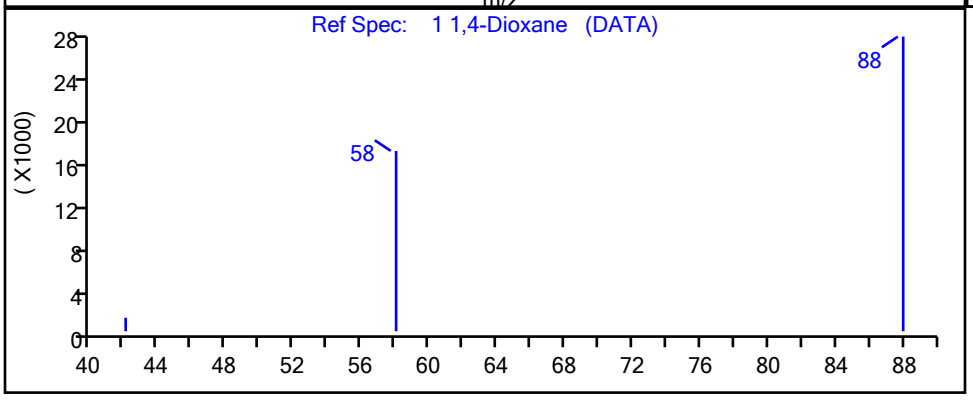
Processing Results











RT	Mass	Response	Amount
1.47	88.00	2179	0.015862
1.47	58.00	1620	

Reviewer: SJ89, 06-Sep-2022 16:16:58

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-96269-1

SDG No.:

Client Sample ID:
Lab Sample ID: MB 410-295384/1-A

Matrix: Solid
Lab File ID: CI0602.D

Analysis Method: 8270E SIM
Date Collected:

Extract. Method: 3546
Date Extracted: 09/13/2022 18:30

Sample wt/vol: 30.00(g)
Date Analyzed: 09/14/2022 17:02

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: Rxi-.5SilMS 30m ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 295923
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		3.0	1.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	83		19-133
93951-69-0	Fluoranthene-d10 (Surr)	73		22-152
38072-94-5	1-Methylnaphthalene-d10 (Surr)	73		26-123

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP10623\20220914-66354.b\CI0602.D
Lims ID: MB 410-295384/1-A
Client ID:
Sample Type: MB
Inject. Date: 14-Sep-2022 17:02:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: MB 410-295384/1-A
Misc. Info.: 410-0066354-003
Operator ID: kel10217 Instrument ID: HP10623

Method: \\chromfs\Lancaster\ChromData\HP10623\20220914-66354.b\8270_SIM_HP10623.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 14-Sep-2022 22:11:14 Calib Date: 09-Aug-2022 17:46:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP10623\20220809-63751.b\CH0907.D

Column 1 : Rxi-.5SilMS 30m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1630

First Level Reviewer: SJ89 Date: 14-Sep-2022 21:05:58

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	4.161	4.154	0.007	73	52854	1.00	1.00	
* 5 Naphthalene-d8	136	5.374	5.374	0.000	51	198599	1.00	1.00	
$ 9 1-Methylnaphthalene-d10	152	6.110	6.110	0.000	75	72535	1.00	0.7267	
* 13 Acenaphthene-d10	164	7.034	7.034	0.000	88	101017	1.00	1.00	
* 20 Phenanthrene-d10	188	8.438	8.438	0.000	96	185589	1.00	1.00	
$ 24 Fluoranthene-d10 (Surr)	212	9.566	9.566	0.000	77	144571	1.00	0.7272	
* 29 Chrysene-d12	240	11.112	11.111	0.001	91	147001	1.00	1.00	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	12.937	12.930	0.007	100	109594	1.00	0.8319	
* 38 Perylene-d12	264	13.050	13.050	0.000	100	141947	1.00	1.00	

QC Flag Legend
Processing Flags

Reagents:
MSS_FVSIM_IS_00016 Amount Added: 10.00 Units: uL Run Reagent

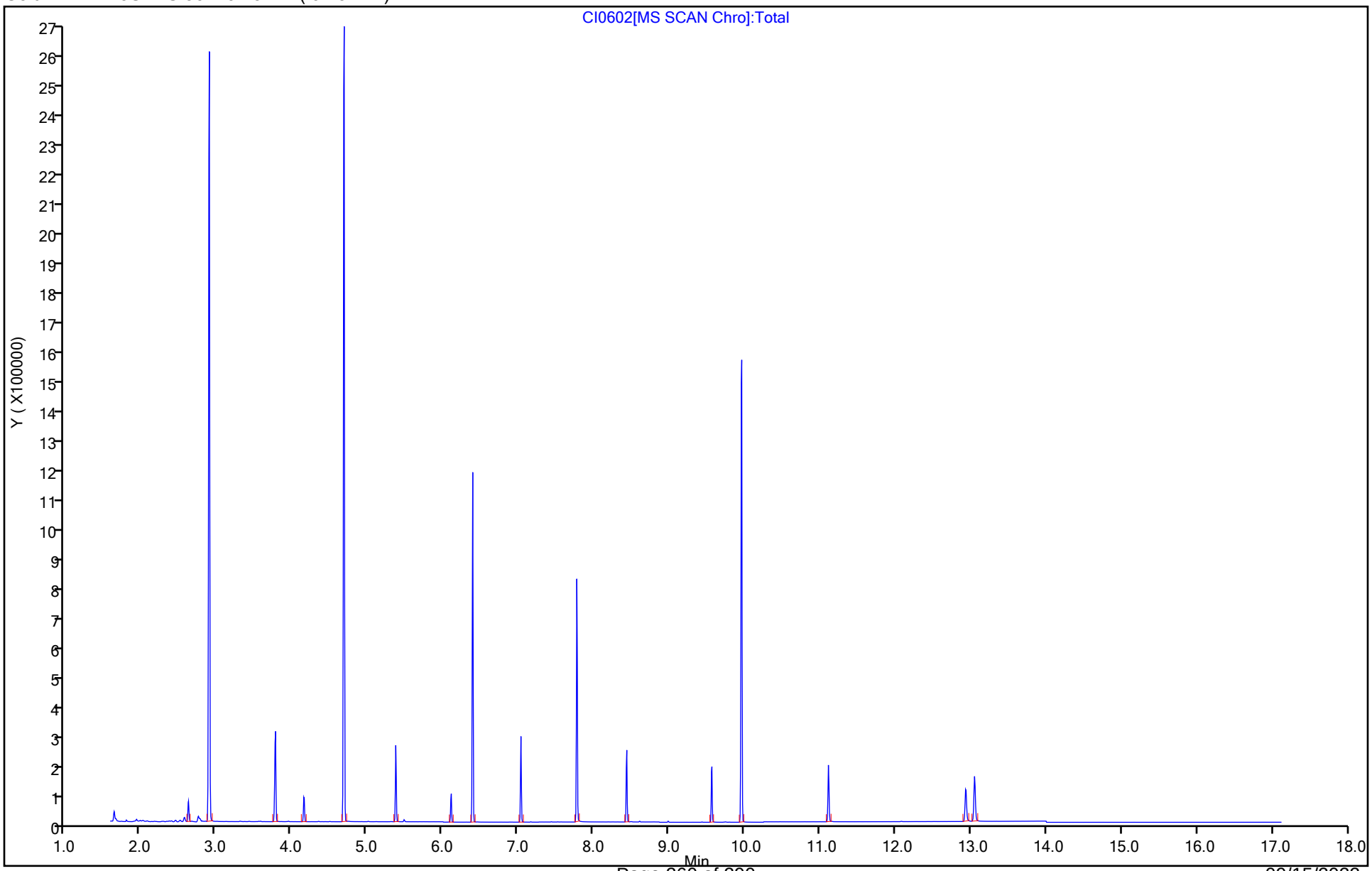
Report Date: 14-Sep-2022 22:11:19 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP10623\20220914-66354.b\CI0602.D

Injection Date:	14-Sep-2022 17:02:30	Instrument ID:	HP10623	Operator ID:	kel10217
Lims ID:	MB 410-295384/1-A			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8270_SIM_HP10623	Limit Group:	MSSV - 8270D_E SIM		

Column: Rxi-.5SilMS 30m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\HP10623\20220914-66354.b\CI0602.D				
Lims ID:	MB 410-295384/1-A				
Client ID:					
Sample Type:	MB				
Inject. Date:	14-Sep-2022 17:02:30	ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	MB 410-295384/1-A				
Misc. Info.:	410-0066354-003				
Operator ID:	kel10217	Instrument ID:	HP10623		
Method:	\\chromfs\Lancaster\ChromData\HP10623\20220914-66354.b\8270_SIM_HP10623.m				
Limit Group:	MSSV - 8270D_E SIM				
Last Update:	14-Sep-2022 22:11:14	Calib Date:	09-Aug-2022 17:46:30		
Integrator:	Falcon	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP10623\20220809-63751.b\CH0907.D				
Column 1 :	Rxi-.5SilMS 30m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1630				

First Level Reviewer: SJ89 Date: 14-Sep-2022 21:05:58

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1-Methylnaphthalene-d10	1.00	0.7267	72.67
$ 24 Fluoranthene-d10 (Surr)	1.00	0.7272	72.72
$ 36 Benzo(a)pyrene-d12 (Surr)	1.00	0.8319	83.19

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-96269-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCS 410-292631/2-A

Matrix: Water
Lab File ID: NI0073.D

Analysis Method: 8270E SIM
Date Collected:

Extract. Method: 3510C
Date Extracted: 09/03/2022 10:17

Sample wt/vol: 250(mL)
Date Analyzed: 09/06/2022 08:09

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 292808
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.401		0.30	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	98		10-110
93951-69-0	Fluoranthene-d10 (Surr)	84		47-128
38072-94-5	1-Methylnaphthalene-d10 (Surr)	82		36-111

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20220906-65655.b\NI0073.D
Lims ID: LCS 410-292631/2-A
Client ID:
Sample Type: LCS
Inject. Date: 06-Sep-2022 08:09:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: LCS 410-292631/2-A
Misc. Info.: 410-0065655-004
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20220906-65655.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 06-Sep-2022 16:38:06 Calib Date: 29-Apr-2022 17:03:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20220429-56077.b\ND1406.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1660

First Level Reviewer: SJ89 Date: 06-Sep-2022 16:17:59

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	1.472	1.446	0.026	97	14629	0.2500	0.1002	
*	4 1,4-Dichlorobenzene-d4	152	4.342	4.342	0.000	97	52564	0.2500	0.2500	
*	5 Naphthalene-d8	136	5.567	5.567	0.000	100	169121	0.2500	0.2500	M
	6 Naphthalene	128	5.579	5.579	0.000	100	168978	0.2500	0.1995	
	8 2-Methylnaphthalene	142	6.244	6.244	0.000	99	93837	0.2500	0.1844	
$	9 1-Methylnaphthalene-d10	152	6.304	6.304	0.000	98	75614	0.2500	0.2051	
	12 Acenaphthylene	152	7.095	7.095	0.000	99	147160	0.2500	0.1937	
*	13 Acenaphthene-d10	164	7.236	7.236	0.000	97	82389	0.2500	0.2500	
	14 Acenaphthene	154	7.266	7.266	0.000	90	84886	0.2500	0.1872	
	17 Fluorene	166	7.757	7.757	0.000	98	105020	0.2500	0.2087	
*	20 Phenanthrene-d10	188	8.645	8.645	0.000	100	140610	0.2500	0.2500	
	21 Phenanthrene	178	8.668	8.668	0.000	100	148826	0.2500	0.2001	
	22 Anthracene	178	8.714	8.714	0.000	100	144529	0.2500	0.2061	
$	24 Fluoranthene-d10 (Surr)	212	9.779	9.780	0.000	97	119687	0.2500	0.2102	
	25 Fluoranthene	202	9.791	9.798	-0.007	99	148774	0.2500	0.2092	
	26 Pyrene	202	10.004	10.018	-0.007	99	155721	0.2500	0.2002	
	28 Benzo[a]anthracene	228	11.234	11.242	0.000	99	128287	0.2500	0.2305	
*	29 Chrysene-d12	240	11.249	11.249	0.000	90	96370	0.2500	0.2500	
	30 Chrysene	228	11.280	11.288	0.000	100	130587	0.2500	0.2062	
	33 Benzo[b]fluoranthene	252	12.591	12.599	-0.001	100	132037	0.2500	0.2453	
	34 Benzo[k]fluoranthene	252	12.630	12.637	0.000	100	153149	0.2500	0.2206	
$	36 Benzo(a)pyrene-d12 (Surr)	264	12.998	13.006	-0.008	100	96423	0.2500	0.2455	
	37 Benzo[a]pyrene	252	13.036	13.067	0.000	100	120937	0.2500	0.2115	
*	38 Perylene-d12	264	13.113	13.113	0.000	97	103973	0.2500	0.2500	
	40 Indeno[1,2,3-cd]pyrene	276	14.646	14.647	0.000	96	115950	0.2500	0.3018	M
	41 Dibenz(a,h)anthracene	278	14.688	14.697	0.000	98	127977	0.2500	0.2830	
	42 Benzo[g,h,i]perylene	276	15.056	15.072	-0.007	98	137876	0.2500	0.2531	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00031	Amount Added:	10.00	Units: uL	Run Reagent

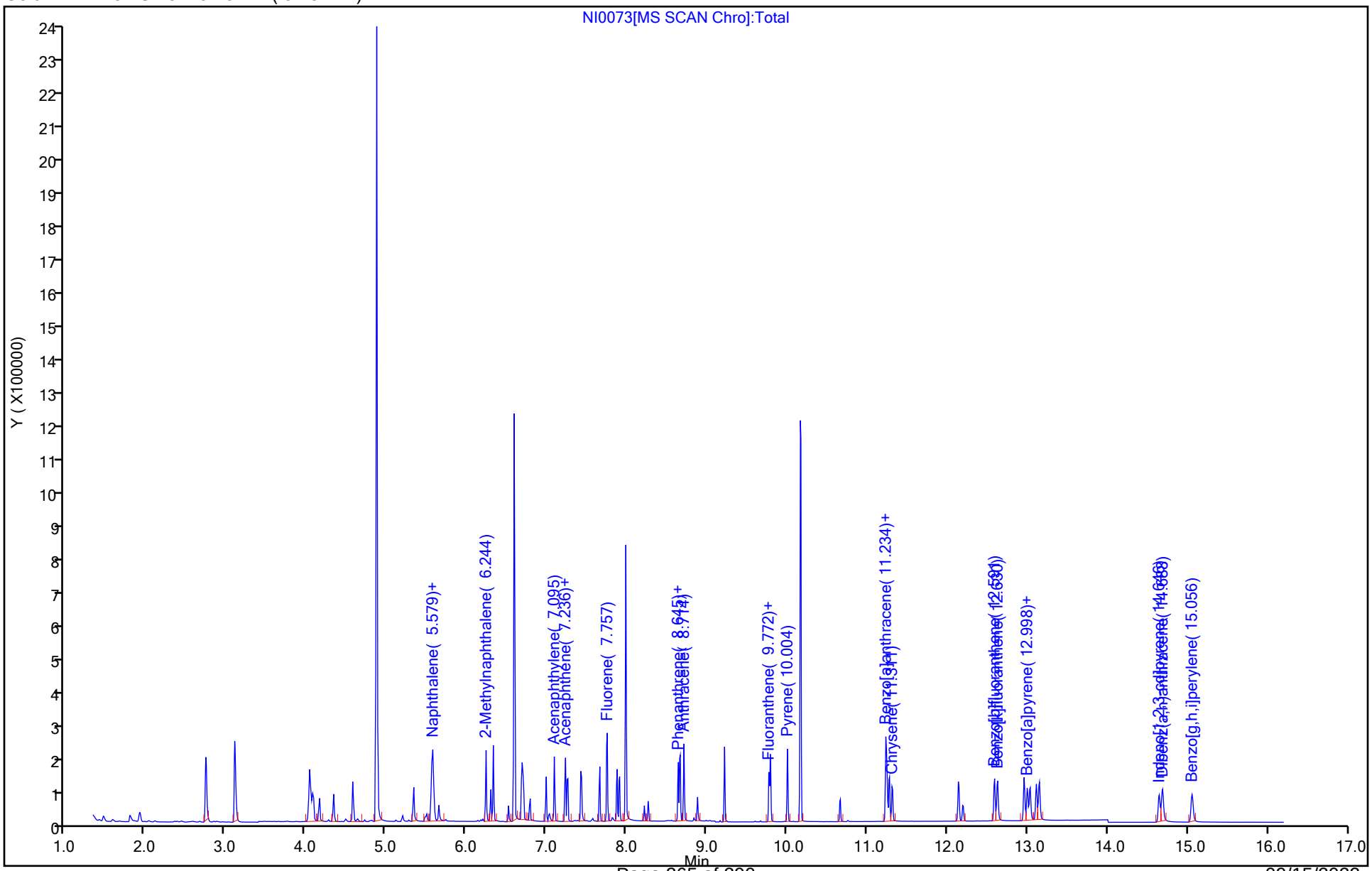
Report Date: 06-Sep-2022 16:42:11 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20220906-65655.b\NI0073.D

Injection Date:	06-Sep-2022 08:09:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	LCS 410-292631/2-A			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20220906-65655.b\NI0073.D				
Lims ID:	LCS 410-292631/2-A				
Client ID:					
Sample Type:	LCS				
Inject. Date:	06-Sep-2022 08:09:30	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	LCS 410-292631/2-A				
Misc. Info.:	410-0065655-004				
Operator ID:	jmg00346	Instrument ID:	HP23263		
Method:	\\chromfs\Lancaster\ChromData\HP23263\20220906-65655.b\8270_SIM_HP23263.m				
Limit Group:	MSSV - 8270D_E SIM				
Last Update:	06-Sep-2022 16:38:06	Calib Date:	29-Apr-2022 17:03:30		
Integrator:	Falcon	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP23263\20220429-56077.b\ND1406.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1660				

First Level Reviewer: SJ89 Date: 06-Sep-2022 16:17:59

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1-Methylnaphthalene-d10	0.2500	0.2051	82.04
$ 24 Fluoranthene-d10 (Surr)	0.2500	0.2102	84.09
$ 36 Benzo(a)pyrene-d12 (Surr)	0.2500	0.2455	98.19

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

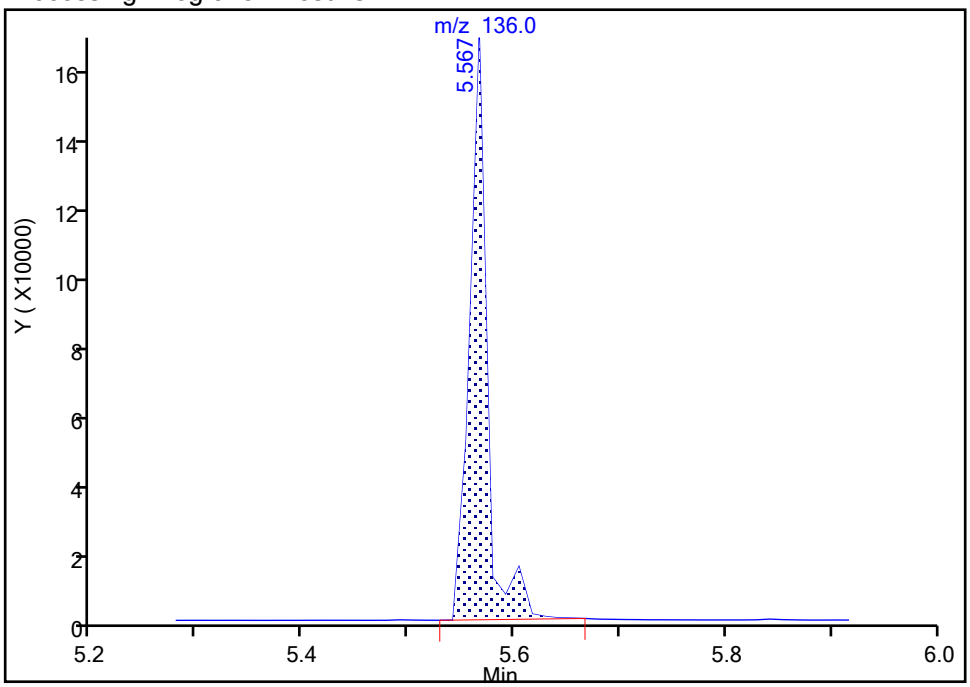
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20220906-65655.b\NI0073.D				
Injection Date:	06-Sep-2022 08:09:30	Instrument ID:	HP23263		
Lims ID:	LCS 410-292631/2-A				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

* 5 Naphthalene-d8, CAS: 1146-65-2

Signal: 1

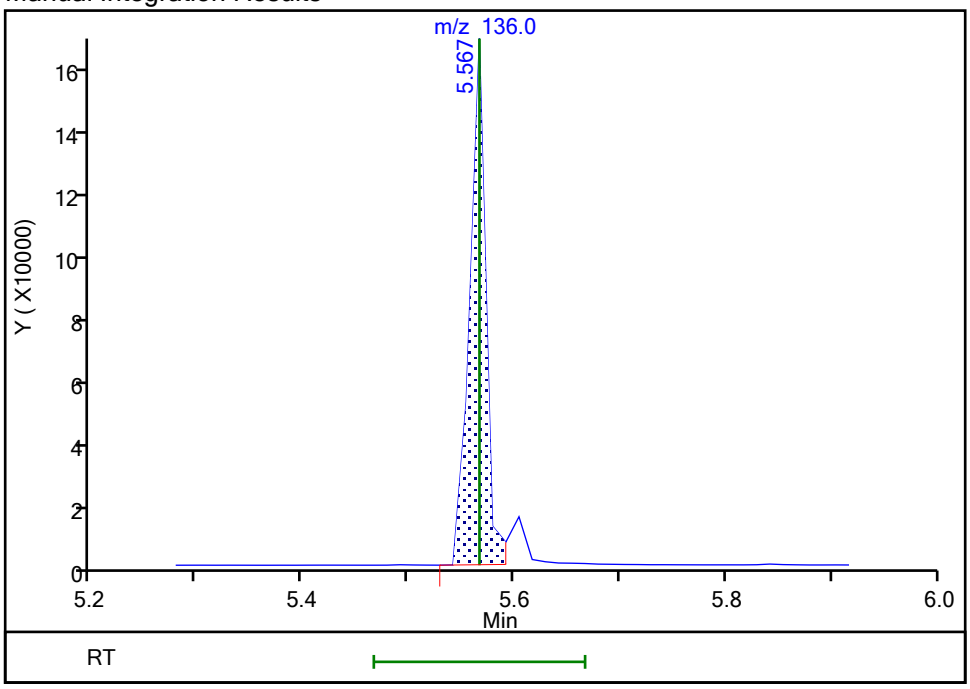
Processing Integration Results

RT: 5.57
Area: 184399
Amount: 0.250000
Amount Units: ug/ml



Manual Integration Results

RT: 5.57
Area: 169121
Amount: 0.250000
Amount Units: ug/ml



Reviewer: SJ89, 06-Sep-2022 16:17:20
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-96269-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCS 410-295384/2-A

Matrix: Solid
Lab File ID: CI0603.D

Analysis Method: 8270E SIM
Date Collected:

Extract. Method: 3546
Date Extracted: 09/13/2022 18:30

Sample wt/vol: 30.00(g)
Date Analyzed: 09/14/2022 17:25

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: Rxi-.5SilMS 30m ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 295923
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	14.9		3.0	1.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	94		19-133
93951-69-0	Fluoranthene-d10 (Surr)	79		22-152
38072-94-5	1-Methylnaphthalene-d10 (Surr)	84		26-123

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP10623\20220914-66354.b\CI0603.D
Lims ID: LCS 410-295384/2-A
Client ID:
Sample Type: LCS
Inject. Date: 14-Sep-2022 17:25:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: LCS 410-295384/2-A
Misc. Info.: 410-0066354-004
Operator ID: kel10217 Instrument ID: HP10623

Method: \\chromfs\Lancaster\ChromData\HP10623\20220914-66354.b\8270_SIM_HP10623.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 14-Sep-2022 22:11:14 Calib Date: 09-Aug-2022 17:46:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP10623\20220809-63751.b\CH0907.D

Column 1 : Rxi-.5SilMS 30m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1630

First Level Reviewer: SJ89 Date: 14-Sep-2022 21:06:20

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.666	1.688	-0.022	83	11876	1.00	0.4471	
* 4 1,4-Dichlorobenzene-d4	152	4.154	4.154	0.000	84	50463	1.00	1.00	
* 5 Naphthalene-d8	136	5.374	5.374	0.000	50	184506	1.00	1.00	
6 Naphthalene	128	5.394	5.394	0.000	96	172371	1.00	0.9015	
8 2-Methylnaphthalene	142	6.046	6.046	0.000	70	104077	1.00	0.8401	
$ 9 1-Methylnaphthalene-d10	152	6.104	6.110	-0.006	76	77948	1.00	0.8406	
10 1-Methylnaphthalene	142	6.143	6.143	0.000	66	106652	1.00	0.9171	
12 Acenaphthylene	152	6.899	6.898	0.001	74	163201	1.00	0.8825	
* 13 Acenaphthene-d10	164	7.034	7.034	0.000	83	94918	1.00	1.00	
14 Acenaphthene	154	7.060	7.060	0.000	55	100504	1.00	0.8873	
17 Fluorene	166	7.548	7.547	0.000	89	125035	1.00	0.9205	
* 20 Phenanthrene-d10	188	8.431	8.438	-0.007	95	169085	1.00	1.00	
21 Phenanthrene	178	8.458	8.458	0.000	87	187742	1.00	0.9658	
22 Anthracene	178	8.505	8.505	0.000	91	181925	1.00	0.9658	
$ 24 Fluoranthene-d10 (Surr)	212	9.561	9.566	-0.005	77	143923	1.00	0.7946	
25 Fluoranthene	202	9.577	9.583	-0.006	94	198943	1.00	0.9225	
26 Pyrene	202	9.800	9.799	0.001	99	199802	1.00	0.9616	
28 Benzo[a]anthracene	228	11.098	11.097	0.001	100	173864	1.00	0.9301	
* 29 Chrysene-d12	240	11.112	11.111	0.001	95	136994	1.00	1.00	
30 Chrysene	228	11.140	11.140	0.000	100	178590	1.00	0.9317	
33 Benzo[b]fluoranthene	252	12.502	12.502	0.000	100	164589	1.00	0.9784	
34 Benzo[k]fluoranthene	252	12.544	12.544	0.000	100	174849	1.00	1.00	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	12.930	12.930	0.000	100	109368	1.00	0.9375	
37 Benzo[a]pyrene	252	12.966	12.965	0.001	100	150031	1.00	0.9564	
* 38 Perylene-d12	264	13.050	13.050	0.000	100	125703	1.00	1.00	
40 Indeno[1,2,3-cd]pyrene	276	14.690	14.690	0.000	42	133924	1.00	1.07	
41 Dibenz(a,h)anthracene	278	14.740	14.739	-0.007	54	154481	1.00	1.05	
42 Benzo[g,h,i]perylene	276	15.156	15.163	-0.007	100	163496	1.00	1.08	

QC Flag Legend

Processing Flags

Reagents:

MSS_FVSIM_IS_00016 Amount Added: 10.00 Units: uL Run Reagent

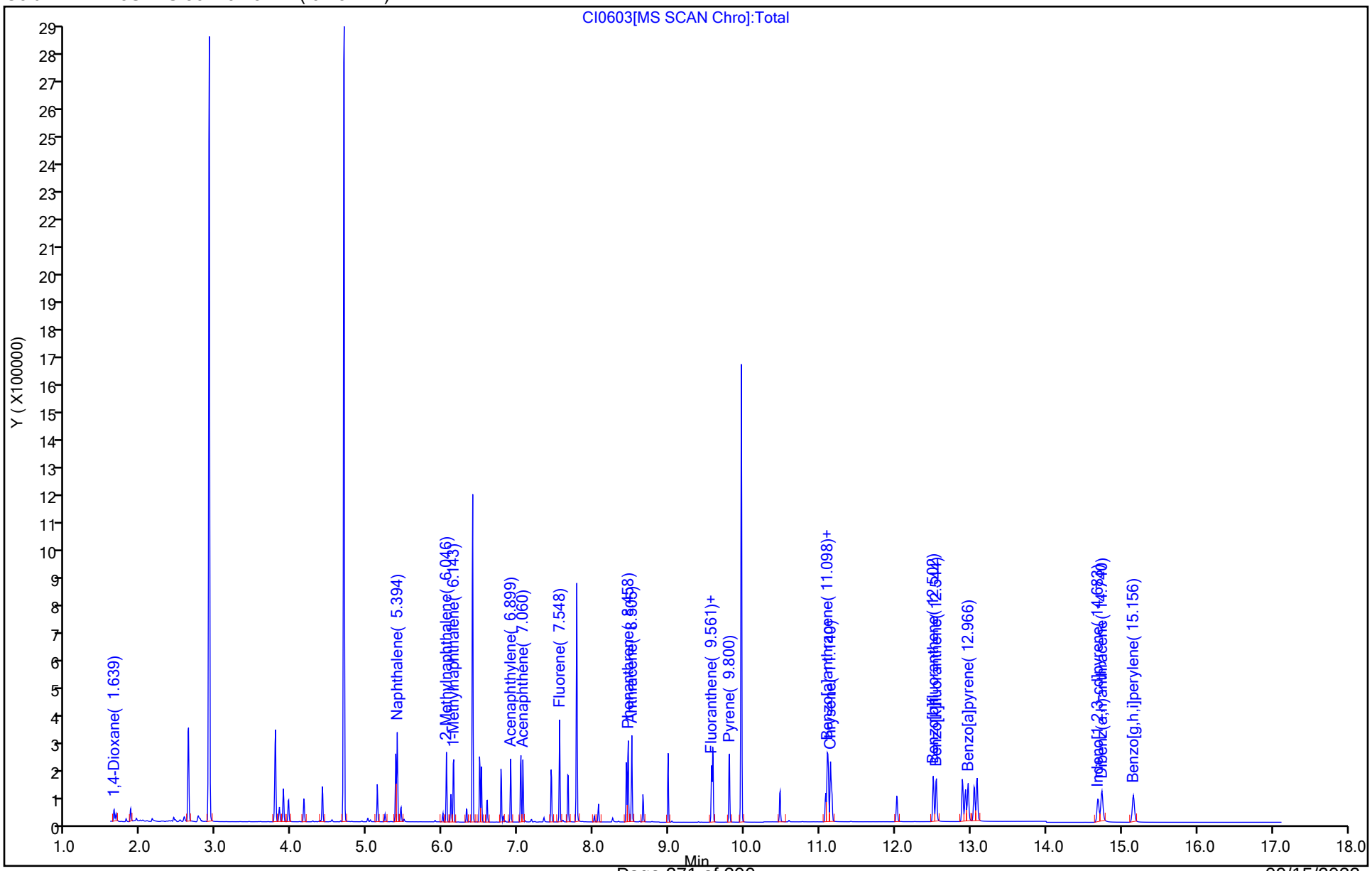
Report Date: 14-Sep-2022 22:11:20 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP10623\20220914-66354.b\CI0603.D

Injection Date:	14-Sep-2022 17:25:30	Instrument ID:	HP10623	Operator ID:	kel10217
Lims ID:	LCS 410-295384/2-A			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8270_SIM_HP10623	Limit Group:	MSSV - 8270D_E SIM		

Column: Rxi-.5SilMS 30m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\HP10623\20220914-66354.b\CI0603.D				
Lims ID:	LCS 410-295384/2-A				
Client ID:					
Sample Type:	LCS				
Inject. Date:	14-Sep-2022 17:25:30	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	LCS 410-295384/2-A				
Misc. Info.:	410-0066354-004				
Operator ID:	kel10217	Instrument ID:	HP10623		
Method:	\\chromfs\Lancaster\ChromData\HP10623\20220914-66354.b\8270_SIM_HP10623.m				
Limit Group:	MSSV - 8270D_E SIM				
Last Update:	14-Sep-2022 22:11:14	Calib Date:	09-Aug-2022 17:46:30		
Integrator:	Falcon	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP10623\20220809-63751.b\CH0907.D				
Column 1 :	Rxi-.5SilMS 30m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1630				

First Level Reviewer: SJ89 Date: 14-Sep-2022 21:06:20

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1-Methylnaphthalene-d10	1.00	0.8406	84.06
$ 24 Fluoranthene-d10 (Surr)	1.00	0.7946	79.46
$ 36 Benzo(a)pyrene-d12 (Surr)	1.00	0.9375	93.75

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-96269-1

SDG No.:

Instrument ID: HP10623 Start Date: 08/09/2022 14:50

Analysis Batch Number: 284284 End Date: 08/09/2022 23:02

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 410-284284/1		08/09/2022 14:50	1	CH0900.D	Rxi-.5SilMS 30m 0.25(mm)
ICIS 410-284284/2		08/09/2022 15:22	1	CH0901.D	Rxi-.5SilMS 30m 0.25(mm)
IC 410-284284/3		08/09/2022 15:50	1	CH0902.D	Rxi-.5SilMS 30m 0.25(mm)
IC 410-284284/4		08/09/2022 16:13	1	CH0903.D	Rxi-.5SilMS 30m 0.25(mm)
IC 410-284284/5		08/09/2022 16:36	1	CH0904.D	Rxi-.5SilMS 30m 0.25(mm)
IC 410-284284/6		08/09/2022 17:00	1	CH0905.D	Rxi-.5SilMS 30m 0.25(mm)
IC 410-284284/7		08/09/2022 17:23	1	CH0906.D	Rxi-.5SilMS 30m 0.25(mm)
IC 410-284284/8		08/09/2022 17:46	1	CH0907.D	Rxi-.5SilMS 30m 0.25(mm)
ICVL 410-284284/10		08/09/2022 18:10	1		Rxi-.5SilMS 30m 0.25(mm)
ICVL 410-284284/9		08/09/2022 18:33	1		Rxi-.5SilMS 30m 0.25(mm)
ICV 410-284284/11		08/09/2022 18:56	1	CH0910.D	Rxi-.5SilMS 30m 0.25(mm)
ZZZZZ		08/09/2022 19:55	1		Rxi-.5SilMS 30m 0.25(mm)
ZZZZZ		08/09/2022 20:18	1		Rxi-.5SilMS 30m 0.25(mm)
ZZZZZ		08/09/2022 20:41	1		Rxi-.5SilMS 30m 0.25(mm)
ZZZZZ		08/09/2022 21:04	1		Rxi-.5SilMS 30m 0.25(mm)
ZZZZZ		08/09/2022 21:28	1		Rxi-.5SilMS 30m 0.25(mm)
ZZZZZ		08/09/2022 21:51	1		Rxi-.5SilMS 30m 0.25(mm)
ZZZZZ		08/09/2022 22:15	10		Rxi-.5SilMS 30m 0.25(mm)
ZZZZZ		08/09/2022 22:38	10		Rxi-.5SilMS 30m 0.25(mm)
ZZZZZ		08/09/2022 23:02	10		Rxi-.5SilMS 30m 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-96269-1

SDG No.:

Instrument ID: HP10623 Start Date: 09/14/2022 15:43

Analysis Batch Number: 295923 End Date: 09/14/2022 21:42

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 410-295923/1		09/14/2022 15:43	1	CI0600.D	Rxi-.5SilMS 30m 0.25(mm)
CCVIS 410-295923/2		09/14/2022 16:06	1	CI0601.D	Rxi-.5SilMS 30m 0.25(mm)
MB 410-295384/1-A		09/14/2022 17:02	1	CI0602.D	Rxi-.5SilMS 30m 0.25(mm)
LCS 410-295384/2-A		09/14/2022 17:25	1	CI0603.D	Rxi-.5SilMS 30m 0.25(mm)
410-96269-2	Import-6-20220830	09/14/2022 17:49	1	CI0604.D	Rxi-.5SilMS 30m 0.25(mm)
ZZZZZ		09/14/2022 18:12	50		Rxi-.5SilMS 30m 0.25(mm)
ZZZZZ		09/14/2022 18:35	10		Rxi-.5SilMS 30m 0.25(mm)
ZZZZZ		09/14/2022 18:59	1		Rxi-.5SilMS 30m 0.25(mm)
ZZZZZ		09/14/2022 19:22	1		Rxi-.5SilMS 30m 0.25(mm)
ZZZZZ		09/14/2022 19:45	10		Rxi-.5SilMS 30m 0.25(mm)
ZZZZZ		09/14/2022 20:09	10		Rxi-.5SilMS 30m 0.25(mm)
ZZZZZ		09/14/2022 20:32	10		Rxi-.5SilMS 30m 0.25(mm)
ZZZZZ		09/14/2022 21:42	100		Rxi-.5SilMS 30m 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-96269-1

SDG No.:

Instrument ID: HP23263 Start Date: 04/29/2022 14:24

Analysis Batch Number: 250058 End Date: 04/30/2022 00:35

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 410-250058/1		04/29/2022 14:24	1	ND1400.D	DB-5MS 30m 0.25 0.25(mm)
ICIS 410-250058/2		04/29/2022 14:59	1	ND1401.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-250058/3		04/29/2022 15:37	1	ND1402.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-250058/4		04/29/2022 15:59	1	ND1403.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-250058/5		04/29/2022 16:20	1	ND1404.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-250058/6		04/29/2022 16:42	1	ND1405.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-250058/7		04/29/2022 17:03	1	ND1406.D	DB-5MS 30m 0.25 0.25(mm)
ICVL 410-250058/8		04/29/2022 17:25	1		DB-5MS 30m 0.25 0.25(mm)
ICV 410-250058/9		04/29/2022 17:47	1	ND1408.D	DB-5MS 30m 0.25 0.25(mm)
ICV 410-250058/10		04/29/2022 18:08	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		04/29/2022 18:49	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		04/29/2022 19:11	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		04/29/2022 19:32	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		04/29/2022 19:54	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		04/29/2022 20:16	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		04/29/2022 20:59	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		04/29/2022 21:21	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		04/29/2022 21:42	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		04/29/2022 22:04	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		04/29/2022 22:26	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		04/29/2022 22:47	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		04/29/2022 23:09	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		04/29/2022 23:30	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		04/29/2022 23:52	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		04/30/2022 00:13	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		04/30/2022 00:35	1		DB-5MS 30m 0.25 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-96269-1

SDG No.:

Instrument ID: HP23263 Start Date: 09/06/2022 07:01

Analysis Batch Number: 292808 End Date: 09/06/2022 15:22

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 410-292808/1		09/06/2022 07:01	1	NI0070.D	DB-5MS 30m 0.25 0.25(mm)
CCVIS 410-292808/2		09/06/2022 07:21	1	NI0071.D	DB-5MS 30m 0.25 0.25(mm)
MB 410-292631/1-A		09/06/2022 07:48	1	NI0072.D	DB-5MS 30m 0.25 0.25(mm)
LCS 410-292631/2-A		09/06/2022 08:09	1	NI0073.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		09/06/2022 11:24	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		09/06/2022 11:46	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		09/06/2022 12:08	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		09/06/2022 12:29	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		09/06/2022 12:51	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		09/06/2022 13:13	1		DB-5MS 30m 0.25 0.25(mm)
410-96269-1	FB-20220830	09/06/2022 13:35	1	NI0088.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		09/06/2022 15:00	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		09/06/2022 15:22	1		DB-5MS 30m 0.25 0.25(mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-96269-1

SDG No.:

Batch Number: 250058 Batch Start Date: 04/29/22 14:24 Batch Analyst: Saadeh, William H

Batch Method: 8270E SIM Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSS_RVDFTPP 00009	MSS_RVSIM_1 00016	MSS_RVSIM_2 00017	MSS_RVSIM_3 00015	MSS_RVSIM_4 00019	MSS_RVSIM_5 00016
DFTPP 410-250058/1		8270E SIM		1 mL					
ICIS 410-250058/2		8270E SIM						1 mL	
IC 410-250058/3		8270E SIM							
IC 410-250058/4		8270E SIM							1 mL
IC 410-250058/5		8270E SIM					1 mL		
IC 410-250058/6		8270E SIM				1 mL			
IC 410-250058/7		8270E SIM			1 mL				
ICV 410-250058/9		8270E SIM							

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSS_RVSIM_6 00014	MSS_RVSIM_ICV 00029				
DFTPP 410-250058/1		8270E SIM							
ICIS 410-250058/2		8270E SIM							
IC 410-250058/3		8270E SIM		1 mL					
IC 410-250058/4		8270E SIM							
IC 410-250058/5		8270E SIM							
IC 410-250058/6		8270E SIM							
IC 410-250058/7		8270E SIM							
ICV 410-250058/9		8270E SIM			1 mL				

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-96269-1

SDG No.:

Batch Number: 284284 Batch Start Date: 08/09/22 14:50 Batch Analyst: Lutte, Kate E

Batch Method: 8270E SIM Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSS_FVDFTPP 00015	MSS_FVSIM_1 00013	MSS_FVSIM_2 00014	MSS_FVSIM_3 00013	MSS_FVSIM_4 00016	MSS_FVSIM_5 00016
DFTPP 410-284284/1		8270E SIM		1 mL					
ICIS 410-284284/2		8270E SIM						1 mL	
IC 410-284284/3		8270E SIM							
IC 410-284284/4		8270E SIM							
IC 410-284284/5		8270E SIM							1 mL
IC 410-284284/6		8270E SIM					1 mL		
IC 410-284284/7		8270E SIM				1 mL			
IC 410-284284/8		8270E SIM			1 mL				
ICV 410-284284/11		8270E SIM							

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSS_FVSIM_6 00014	MSS_FVSIM_7 00012	MSS_FVSIM_ICV 00016			
DFTPP 410-284284/1		8270E SIM							
ICIS 410-284284/2		8270E SIM							
IC 410-284284/3		8270E SIM			1 mL				
IC 410-284284/4		8270E SIM		1 mL					
IC 410-284284/5		8270E SIM							
IC 410-284284/6		8270E SIM							
IC 410-284284/7		8270E SIM							
IC 410-284284/8		8270E SIM							
ICV 410-284284/11		8270E SIM				1 mL			

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-96269-1

SDG No.:

Batch Number: 292631 Batch Start Date: 09/03/22 11:30 Batch Analyst: Sanchez, Osvaldo

Batch Method: 3510C Batch End Date: 09/03/22 16:42

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	FirstAdjustpH	SecondAdjustpH
MB 410-292631/1		3510C, 8270E SIM				250 mL	1 mL	11 SU	2 SU
LCS 410-292631/2		3510C, 8270E SIM				250 mL	1 mL	11 SU	2 SU
410-96269-B-1	FB-20220830	3510C, 8270E SIM	T	409.13 g	166.73 g	242.4 mL	1 mL	11 SU	2 SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	OP_MINIBNA_SS 00068	OP_SIMLCS_MS 00074	AnalysisComment			
MB 410-292631/1		3510C, 8270E SIM		1 mL		tap h20			
LCS 410-292631/2		3510C, 8270E SIM		1 mL	0.25 mL	tap h20			
410-96269-B-1	FB-20220830	3510C, 8270E SIM	T	1 mL		clear			

Batch Notes	
Balance ID	25996
Pipette/Syringe/Dispenser ID	4
Analyst ID - Extraction	11067
Analyst ID - Spike Analyst	11067
Acid Used for pH Adjustment ID	H2SO4:219415
Base Used to Adjust pH ID	NaOH:4103D49
Prep Solvent ID	MeCl2:223598
Prep Solvent Volume Used	90 mL
Na2SO4 ID	22241A
Analyst ID - Concentration	11067
Equipment ID - Concentration 1	RapidVap#10
Concentration 1 Corrected Temperature	80 Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-96269-1

SDG No.:

Batch Number: 295384 Batch Start Date: 09/13/22 18:30 Batch Analyst: Simons, Connor

Batch Method: 3546 Batch End Date: 09/13/22 22:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	CUPerformed	OP_BNA_SS 00044	OP_SIMLCS_MS 00074	AnalysisComment
MB 410-295384/1		3546, 8270E SIM		30.00 g	1 mL	n	1 mL		NaSO4
LCS 410-295384/2		3546, 8270E SIM		30.00 g	1 mL	n	1 mL	1 mL	NaSO4
410-96269-B-2	Import-6-20220830	3546, 8270E SIM	T	30.04 g	1 mL	n	1 mL		wet brown soil

Batch Notes	
Balance ID	17609
Microwave Oven ID	16866
Pipette/Syringe/Dispenser ID	2
Analyst ID - Extraction	40256 82588
Blank Matrix ID	Na2SO4
Analyst ID - Spike Analyst	40256
Prep Solvent ID	1:1 acetone/mecl2 40256091322A
Na2SO4 ID	22252A
Analyst ID - Concentration	40256 82588
Equipment ID - Concentration 1	rvap 4 3 1

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: Eurofins Lancaster Laboratories Job Number: 410-96269-1

SDG No.:

Project: Troy NY Water 1,4 Dioxane

Client Sample ID	Lab Sample ID
Import-6-20220830	410-96269-2

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Lancaster Laboratories Job Number: 410-96269-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture MDL Date: 10/16/2018 12:54

Analyte	Wavelength/ Mass	RL (%)	MDL (%)
Percent Moisture		1	0.1
Percent Solids		1	0.1

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Lancaster Laboratories Job Number: 410-96269-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture XMDL Date: 10/16/2018 09:12

Analyte	Wavelength/ Mass	XRL (%)	XMDL (%)
Percent Moisture		1	0.1
Percent Solids		1	0.1

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-96269-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 09/02/2022 13:12 End Date: 09/02/2022 13:12

Lab Sample ID	D / F	Type	Time	Analytes																			
				% Sol	Moist																		
ZZZZZZ			13:12																				
ZZZZZZ			13:12																				
ZZZZZZ			13:12																				
ZZZZZZ			13:12																				
ZZZZZZ			13:12																				
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ZZZZZZ			13:12																				
ZZZZZZ			13:12																				
ZZZZZZ			13:12																				
410-96269-2	1	T	13:12	X	X																		

Prep Types
T = Total/NA

General Chemistry Raw Data Report

Job ID: 410-96269-1

Batch: 292456 **Analyst Initials: UVJN**

Method: Moisture **Instrument: NONE**

Lab Sample ID: 410-96269-A-2 **Analysis Date: Sep 02, 2022 13:12**

Analyte	Detector	Dilution	Raw Result	Unit
Percent Moisture	None	1	4.4905008635579	%
Percent Solids	None	1	95.5094991364421	%

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-96269-1

SDG No.:

Batch Number: 292456 Batch Start Date: 09/02/22 13:12 Batch Analyst: Norton, Vincent J

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry	%_Moisture	%_Solid
410-96269-A-2	Import-6-20220830	Moisture	T	456-24	0.82 g	6.61 g	6.35 g	4.4905008635579 %	95.509499136442 1 %

Lab Sample ID	Client Sample ID	Method Chain	Basis	AnalysisComment					
410-96269-A-2	Import-6-20220830	Moisture	T	moist sand					

Batch Notes	
Balance ID	22870
Oven ID	8948
Thermometer ID	1262
Date samples were placed in the oven	09/02/2022
Time samples were place in the oven	13:56
Oven Temp In	105 Degrees C
Date samples were removed from oven	09/03/2022
Time Samples were removed from oven	04:35
Batch Comment	cal 2-4-23

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

Eurofins Lancaster Laboratories Environme

2425 New Holland Pike
Lancaster, PA 17601
Phone: 717-656-2300 Fax: 717-656-2681

Chain of Custody Record

410-96269 Chain of Custody

eurofins Environment Testing America

Client Information	Sampler: Brian Taylor	Lab PM: Weyandt, Barbara A	C No: 64182-13963.1
Client Contact: Mr. ~~James Marolda~~ Adam Sherman	Phone: 518-560-5967	E-Mail: Barbara.Weyandt@et	Page 1 of 1
Company: Brown and Caldwell	PWSID:	Analysis Requested	Job #
Address: 500 North Franklin Turnpike Suite 306	Due Date Requested:		Preservation Codes:
City: Ramsey	TAT Requested (days): STANDARD		A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
State, Zip: NJ, 07446	Compliance Project: Δ Yes Δ No		
Phone: ~~201-574-4713(Tel)~~ 518-560-5911	PO #: 152167.205		Other:
Email: ~~jmarolda~~@brwncald.com ASherman	WO #:		
Project Name: Troy NY Water 1,4-Dioxane	Project #: 41003608		
Site:	SSOW#:		

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	8270D_SIM, Moisture	8270D_SIM - 1,4-Dioxane	Total Number of containers	Special Instructions/Note:
Preservation Code:					X	X	N	N	X
FB-20220830	8/30/22	1433	G	W			X		
Import-6-20220830	8/30/22	1420	C	S		X	X		

8/30/22

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Ian T. Hunt	8-26-22 0854	ELLE			
2		8/30/22 1535	BL			
3		Date/Time	Company	Received by: Debra A. Bya	Date/Time: 8-31-22 10:25	Company: ELLE

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Brown and Caldwell

Job Number: 410-96269-1

Login Number: 96269
List Number: 1
Creator: Hartlove, Katie M

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

Nia Gilliam

From: Spellman, John (DEC) <john.spellman@dec.ny.gov>
Sent: Wednesday, May 11, 2022 8:41 AM
To: Adam Gutta
Cc: Adam Sherman; Nia Gilliam; Cummins, Gerald
Subject: RE: National Grid Troy (Water Street) Request to Import Crushed Stone Materials

Hi Adam,

The stone materials in the quantities you describe and originating from the Grafton Quarry identified on the Request to Import forms are approved for use on the Troy Water Street MGP Site remedial project.

Regards,

John

John Spellman, P.E.
Project Manager, Remedial Bureau C
Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway, Albany, NY 12233-7014
P: 518-402-9686| F: 518-402-9679 | john.spellman@dec.ny.gov

From: Adam Gutta <agutta@BrwnCald.com>
Sent: Tuesday, May 10, 2022 10:50 AM
To: Spellman, John (DEC) <john.spellman@dec.ny.gov>
Cc: Adam Sherman <ASherman@Brwncald.com>; Nia Gilliam <NGilliam@BrwnCald.com>
Subject: National Grid Troy (Water Street) Request to Import Crushed Stone Materials

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

John,

Please find attached three Request to Import forms for crushed stone materials for the National Grid Troy (Water Street) Remediation Project. This request includes import of up to 3,500 cubic yards of Type II Subbase, up to 800 cubic yards of No. 2 crushes stone, and up to 200 cubic yards of No. 3 crushed stone.

If you have any questions or would like to discuss please let me know. Thank you, Adam

Adam Gutta, P.E.
*Professional Engineer in New York State
Brown and Caldwell
agutta@brwncald.com
T 508.819.1410 | **C** 518.729.9363

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NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e). Use of this form is not a substitute for reading the applicable Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is: Commercial or Industrial Use

Have Ecological Resources been identified? yes

Is this soil originating from the site? no

How many cubic yards of soil will be imported/reused? >1000

If greater than 1000 cubic yards will be imported, enter volume to be imported: 3,500 CY

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone? yes

Does it contain less than 10%, by weight, material that would pass a size 80 sieve? yes

Is this virgin material from a permitted mine or quarry? yes

Is this material recycled concrete or brick from a DEC registered processing facility? no

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

The results of the sieve analysis (refer to Attachment 2 - Crushed Stone Gradation) for the proposed crushed stone subbase material show these materials have less than 10%, by weight, passing the No. 80 sieve.
No chemical testing was performed per DER-10 Section 5.4(e)5.

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

No chemical testing was performed per DER-10 Section 5.4(e)5.

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

Stephen A. Valente, Quality Representative, RJ Valente Gravel

Location where fill was obtained:

RJ Valente, 3349 Route 2, Cropseyville, NY 12052

Identification of any state or local approvals as a fill source:

NYS DOT Source 1-48R (Grafton Quarry)

If no approvals are available, provide a brief history of the use of the property that is the fill source:

Provide a list of supporting documentation included with this request:

Attachment 1 - Source Certification Statement
Attachment 2 - Geotechnical Sieve Analysis Results (crushed stone subbase)

The information provided on this form is accurate and complete.

Adam Sherman Digitally signed by Adam Sherman DN: CN=Adam Sherman, OU=Albany, OU=User, OU=Accounts, OU=BC, DC=bc, DC=brwncald, DC=com Date: 2022.05.10 10:07:26-04'00'

Signature

5/10/22

Date

Adam Sherman

Print Name

Brown and Caldwell Associates

Firm

CONSTRUCTION TECHNOLOGY

INSPECTION & TESTING DIVISION, P.D.& T.S., INC.
4 William Street, Ballston Lake, New York 12019
Phone: (518) 399-1848 Email: constructiontech@live.com

ATTACHMENT 1 - GEOTECHNICAL GRADATION

CLIENT: **LAND REMEDIATION**
74 HUDSON RIVER ROAD
WATERFORD, NEW YORK 12188

REPORT DATE: 08/11/21
SAMPLE NUMBER: 21358
OUR FILE NUMBER: 1526.015
LAB TECHNICIAN: BOB BEHAN

ATT'N: MR. JONATHON BORRELLI
PROJECT: **NATIONAL GRID PROJECT: COHOES, NEW YORK**

REPORT OF MOISTURE / DENSITY RELATION OF SOILS ::: PROCTOR

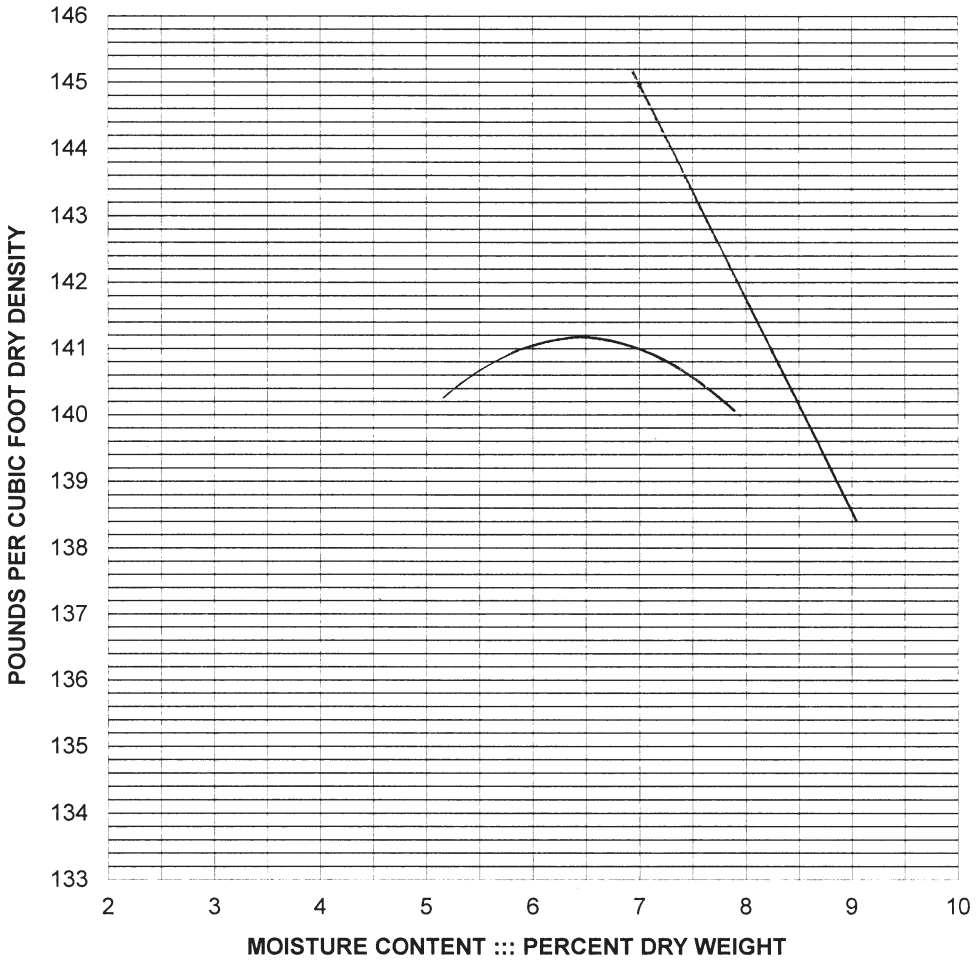
MATERIAL SOURCE: **BORROW: TYPE II SUBBASE**
MATERIAL DESCRIPTION: CRUSHED STONE sized as: GRAVEL, fine; some coarse/medium Sand; trace Silt/Clay
PROCTOR METHOD: ASTM D-1557: MODIFIED EFFORT
GRADATION METHOD: ASTM D-1140 / D-422: WASHED

+3/4" CORRECTION: **142.8** PCF
MAXIMUM DENSITY 141.2 PCF
OPTIMUM MOISTURE **6.4** %

ZERO AIR VOIDS CURVE: 2.78 SPECIFIC GRAVITY

GRADATION

SIEVE SIZE	PERCENT PASSING	SPECIFICATION ALLOWANCE
4"		
3"		
2 1/2"		
2"		
1 1/2"		
1"	100.0	
3/4"	93.9	
1/2"	71.6	
3/8"	59.7	
1/4"	45.8	
#4	38.0	
1/8"		
#8	25.0	
#10		
#16	18.9	
#20		
#30	14.0	
#40	12.4	
#50	10.8	
#60		
#80	8.8	
#100	7.8	
#140		
#200	6.5	



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GENERAL NOTES:

Respectfully,
CONSTRUCTION TECHNOLOGY

Robert Behan

ROBERT BEHAN, (NICET)
MANAGER TECHNICAL SERVICES

RJ VALENTE GRAVEL Inc.
1 MADISON ST.SUITE 300
TROY NY 12180
518-279-1001



ATTACHMENT 2 -
CERTIFICATION STATEMENT

TO WHOM IT MAY CONCERN:

As per your request, please accept this correspondence as follows: For the Troy (Water Street) - Phase 1A Remediation - Former MGP project in Troy, NY.

All imported materials to be delivered to the above referenced project, do not, to the best of our knowledge contain any known contamination from prior historical, industrial, commercial development or agricultural use prior to delivery.

The fill material originates from the following virgin sand and gravel pit:
Grafton Quarry as designated by the NYS DEC at, 3349 Route 2, Cropseyville, New York 12052 in Rensselaer County.

Grafton Quarry - NYSDOT Source # 1-48R

STEPHEN A.VALENTE

ROUND 2: 1,000 CY CRUSHER RUN

Nia Gilliam

From: Spellman, John (DEC) <john.spellman@dec.ny.gov>
Sent: Friday, September 23, 2022 1:40 PM
To: Adam Gutta
Cc: Adam Sherman; Charles Atanasio; Cummins, Gerald
Subject: RE: National Grid Troy Phase 1A Request to Import Common Fill and Type II Subbase

Hi Adam,

Your September 23, 2022 request to import common fill and crushed stone from the sources identified is approved.

Regards,

John

John Spellman, P.E.
Project Manager, Remedial Bureau C
Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway, Albany, NY 12233-7014
P: 518-402-9686| F: 518-402-9679 | john.spellman@dec.ny.gov

From: Adam Gutta <agutta@BrwnCald.com>
Sent: Friday, September 23, 2022 10:26 AM
To: Spellman, John (DEC) <john.spellman@dec.ny.gov>
Cc: Adam Sherman <ASherman@Brwncald.com>; Charles Atanasio <Catanasio@BrwnCald.com>; Cummins, Gerald <Gerald.Cummins@nationalgrid.com>
Subject: National Grid Troy Phase 1A Request to Import Common Fill and Type II Subbase

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

John,

Please find attached a Request to Import for Common Fill (an additional 2,000 CY, for a total import volume 12,000 CY) and for Type II Subbase crushed stone (an additional 1,000 CY, for a total import volume of 4,500 CY). The PFAS Category B Deliverable for Common Fill (Attachment 3C) is available for download at the link below.

TroyArea2_CommonFIll_PFAS_CatBDeliverable

If you have any questions or would like to discuss, please let me know.

Thank you,

Adam Gutta, P.E.
*Professional Engineer in New York State
Brown and Caldwell

agutta@brwncald.com
T 508.819.1410 | **C** 518.729.9363

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NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e). Use of this form is not a substitute for reading the applicable Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is: Commercial or Industrial Use

Have Ecological Resources been identified? yes

Is this soil originating from the site? no

How many cubic yards of soil will be imported/reused? 800-1000

If greater than 1000 cubic yards will be imported, enter volume to be imported:

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone? yes

Does it contain less than 10%, by weight, material that would pass a size 80 sieve? yes

Is this virgin material from a permitted mine or quarry? yes

Is this material recycled concrete or brick from a DEC registered processing facility? no

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

The results of the sieve analysis (refer to Attachment 2 - Crushed Stone Gradation) for the proposed crushed stone subbase material show these materials have less than 10%, by weight, passing the No. 80 sieve.
No chemical testing was performed per DER-10 Section 5.4(e)5.

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

No chemical testing was performed per DER-10 Section 5.4(e)5.

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

Stephen A. Valente, Quality Representative, RJ Valente Gravel

Location where fill was obtained:

RJ Valente, 3349 Route 2, Cropseyville, NY 12052

Identification of any state or local approvals as a fill source:

NYS DOT Source 1-48R (Grafton Quarry)

If no approvals are available, provide a brief history of the use of the property that is the fill source:

Provide a list of supporting documentation included with this request:

Attachment 1 - Source Certification Statement
Attachment 2 - Geotechnical Sieve Analysis Results (crushed stone subbase)

The information provided on this form is accurate and complete.

Adam Gutta Digitally signed by Adam Gutta
DN: CN=Adam Gutta, OU=Middleboro, OU=User, OU=Accounts, OU=BC, DC=bc, DC=brwncald, DC=com
Date: 2022.09.23 10:21:17-04'00'

Signature

9/23/2022

Date

Adam Gutta

Print Name

Brown and Caldwell

Firm

CONSTRUCTION TECHNOLOGY

INSPECTION & TESTING DIVISION, P.D.& T.S., INC.
4 William Street, Ballston Lake, New York 12019
Phone: (518) 399-1848 Email: constructiontech@live.com

ATTACHMENT 1 - GEOTECHNICAL GRADATION

CLIENT: **LAND REMEDIATION**
74 HUDSON RIVER ROAD
WATERFORD, NEW YORK 12188

REPORT DATE: 08/11/21
SAMPLE NUMBER: 21358
OUR FILE NUMBER: 1526.015
LAB TECHNICIAN: BOB BEHAN

ATT'N: MR. JONATHON BORRELLI
PROJECT: **NATIONAL GRID PROJECT: COHOES, NEW YORK**

REPORT OF MOISTURE / DENSITY RELATION OF SOILS ::: PROCTOR

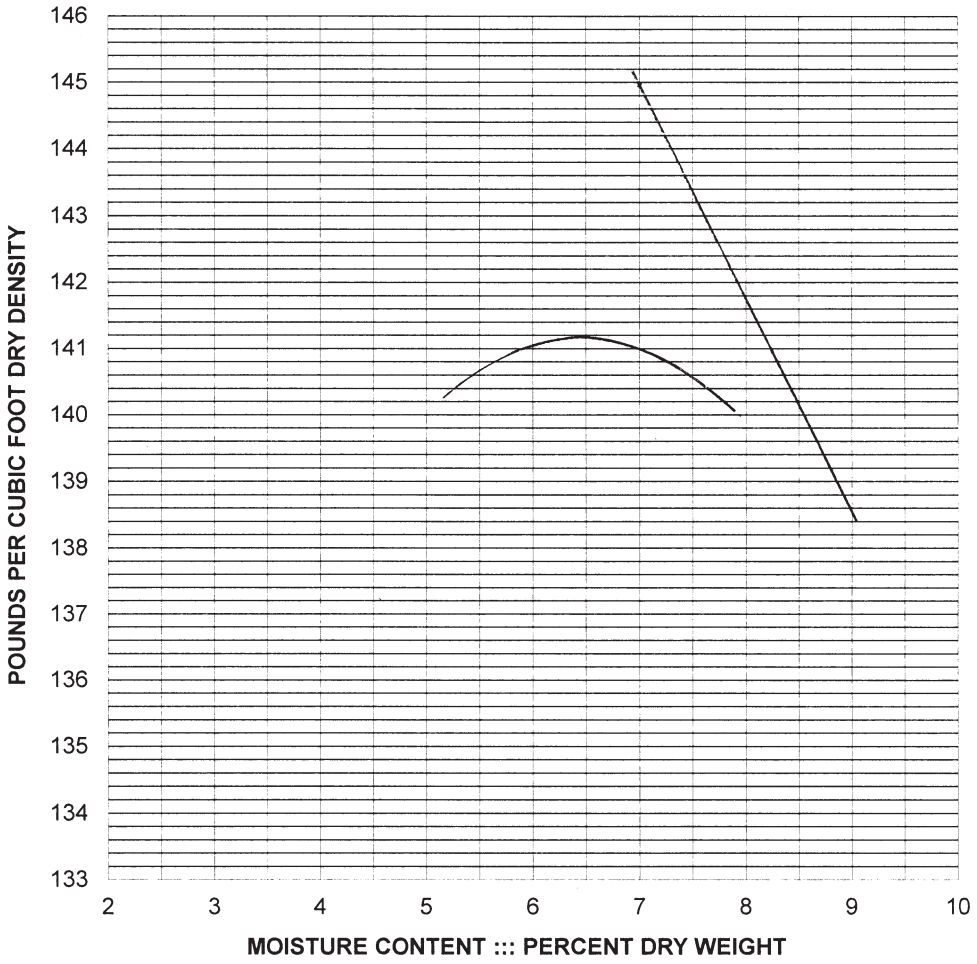
MATERIAL SOURCE: **BORROW: TYPE II SUBBASE**
MATERIAL DESCRIPTION: CRUSHED STONE sized as: GRAVEL, fine; some coarse/medium Sand; trace Silt/Clay
PROCTOR METHOD: ASTM D-1557: MODIFIED EFFORT
GRADATION METHOD: ASTM D-1140 / D-422: WASHED

+3/4" CORRECTION: **142.8** PCF
MAXIMUM DENSITY 141.2 PCF
OPTIMUM MOISTURE **6.4** %

ZERO AIR VOIDS CURVE: 2.78 SPECIFIC GRAVITY

GRADATION

SIEVE SIZE	PERCENT PASSING	SPECIFICATION ALLOWANCE
4"		
3"		
2 1/2"		
2"		
1 1/2"		
1"	100.0	
3/4"	93.9	
1/2"	71.6	
3/8"	59.7	
1/4"	45.8	
#4	38.0	
1/8"		
#8	25.0	
#10		
#16	18.9	
#20		
#30	14.0	
#40	12.4	
#50	10.8	
#60		
#80	8.8	
#100	7.8	
#140		
#200	6.5	



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Respectfully,
CONSTRUCTION TECHNOLOGY

Robert Behan

ROBERT BEHAN, (NICET)
MANAGER TECHNICAL SERVICES

RJ VALENTE GRAVEL Inc.
1 MADISON ST.SUITE 300
TROY NY 12180
518-279-1001



ATTACHMENT 2 -
CERTIFICATION STATEMENT

TO WHOM IT MAY CONCERN:

As per your request, please accept this correspondence as follows: For the Troy (Water Street) - Phase 1A Remediation - Former MGP project in Troy, NY.

All imported materials to be delivered to the above referenced project, do not, to the best of our knowledge contain any known contamination from prior historical, industrial, commercial development or agricultural use prior to delivery.

The fill material originates from the following virgin sand and gravel pit:
Grafton Quarry as designated by the NYS DEC at, 3349 Route 2, Cropseyville, New York 12052 in Rensselaer County.

Grafton Quarry - NYSDOT Source # 1-48R

STEPHEN A.VALENTE

Nia Gilliam

From: Spellman, John (DEC) <john.spellman@dec.ny.gov>
Sent: Wednesday, May 11, 2022 8:41 AM
To: Adam Gutta
Cc: Adam Sherman; Nia Gilliam; Cummins, Gerald
Subject: RE: National Grid Troy (Water Street) Request to Import Crushed Stone Materials

Hi Adam,

The stone materials in the quantities you describe and originating from the Grafton Quarry identified on the Request to Import forms are approved for use on the Troy Water Street MGP Site remedial project.

Regards,

John

John Spellman, P.E.
Project Manager, Remedial Bureau C
Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway, Albany, NY 12233-7014
P: 518-402-9686| F: 518-402-9679 | john.spellman@dec.ny.gov

From: Adam Gutta <agutta@BrwnCald.com>
Sent: Tuesday, May 10, 2022 10:50 AM
To: Spellman, John (DEC) <john.spellman@dec.ny.gov>
Cc: Adam Sherman <ASherman@Brwncald.com>; Nia Gilliam <NGilliam@BrwnCald.com>
Subject: National Grid Troy (Water Street) Request to Import Crushed Stone Materials

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

John,

Please find attached three Request to Import forms for crushed stone materials for the National Grid Troy (Water Street) Remediation Project. This request includes import of up to 3,500 cubic yards of Type II Subbase, up to 800 cubic yards of No. 2 crushes stone, and up to 200 cubic yards of No. 3 crushed stone.

If you have any questions or would like to discuss please let me know. Thank you, Adam

Adam Gutta, P.E.
*Professional Engineer in New York State
Brown and Caldwell
agutta@brwncald.com
T 508.819.1410 | **C** 518.729.9363

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NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e). Use of this form is not a substitute for reading the applicable Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is: Commercial or Industrial Use

Have Ecological Resources been identified? yes

Is this soil originating from the site? no

How many cubic yards of soil will be imported/reused? 500-800

If greater than 1000 cubic yards will be imported, enter volume to be imported:

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone? yes

Does it contain less than 10%, by weight, material that would pass a size 80 sieve? yes

Is this virgin material from a permitted mine or quarry? yes

Is this material recycled concrete or brick from a DEC registered processing facility? no

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

The results of the sieve analysis (refer to Attachment 2 - Crushed Stone Sieve Analysis) for the proposed Size 2 crushed stone material show these materials have less than 10%, by weight, passing the No. 80 sieve.
No chemical testing was performed per DER-10 Section 5.4(e)5.

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

No chemical testing was performed per DER-10 Section 5.4(e)5.

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

Stephen A. Valente, Quality Representative, RJ Valente Gravel

Location where fill was obtained:

RJ Valente, 3349 Route 2, Cropseyville, NY 12052

Identification of any state or local approvals as a fill source:

NYS DOT Source 1-48R (Grafton Quarry)

If no approvals are available, provide a brief history of the use of the property that is the fill source:

Provide a list of supporting documentation included with this request:

Attachment 1 - Source Certification Statement
Attachment 2 - Geotechnical Sieve Analysis Results (Size 2 crushed stone)

The information provided on this form is accurate and complete.

Adam Sherman Digitally signed by Adam Sherman DN: CN=Adam Sherman, OU=Albany, OU=User, OU=Accounts, OU=BC, DC=bc, DC=brwncald, DC=com Date: 2022.05.10 10:00:41-04'00'

Signature

5/10/22

Date

Adam Sherman

Print Name

Brown and Caldwell Associates

Firm

CONSTRUCTION TECHNOLOGY

INSPECTION & TESTING DIVISION, P.D.& T.S., INC.
4 William Street, Ballston Lake, New York 12019
Phone: (518) 399-1848 Email: constructiontech@live.com

ATTACHMENT 1 - GEOTECHNICAL GRADATION

CLIENT: **LAND REMEDIATION**
74 HUDSON RIVER ROAD
WATERFORD, NEW YORK 12188

REPORT DATE: 08/11/21
SAMPLE NUMBER: 21359
OUR FILE NO: 1526.015

Robert Behan

ATT'N: MR. JONATHON BORRELLI
REVIEWED BY: ROBERT BEHAN, NICET

PROJECT: **NATIONAL GRID DUCT BANK PROJECT: GLENS FALLS, NEW YORK**

ASTM C136 / C117 / D422: SIZE DISTRIBUTION OF SOIL & AGGREGATES: SIEVE ANALYSIS

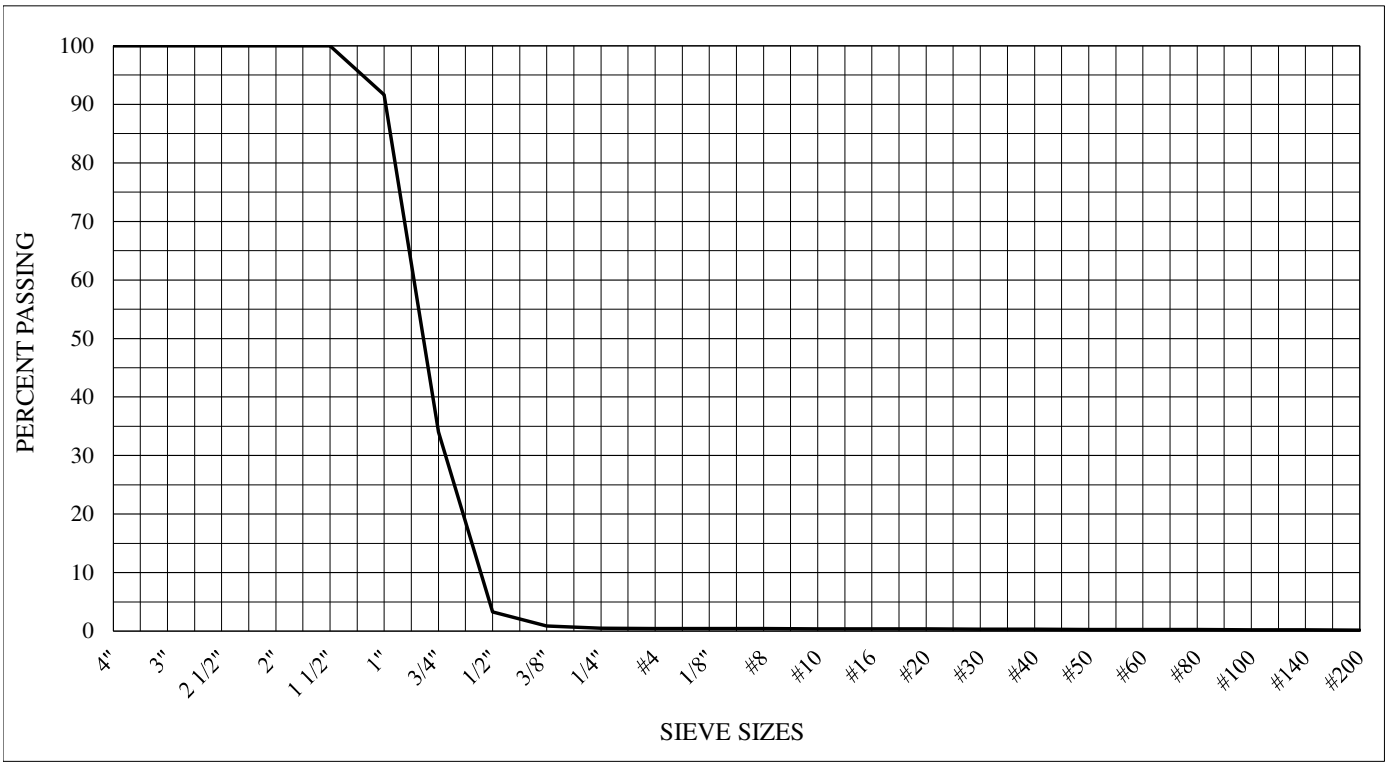
MATERIAL SOURCE: **BORROW: BLENDED #1 & #2 STONE**
MATERIAL DESCRIPTION: CRUSHED STONE sized as: GRAVEL, fine; trace Silt/Clay
MATERIAL PROJECT USE: PER CLIENT
EVALUATION SPECIFICATION: PROJECT SPECIFICATIONS

NYSDOT Size Designation 2 Coarse Aggregate

COARSE SIEVE SERIES: US STANDARD			
SIEVE SIZE	PERCENT RETAINED	PERCENT PASSING	SPECIFICATION ALLOWANCE
4"			
3"			
2 1/2"			
2"			
1 1/2"		100.0	
1"	8.4	91.6	
3/4"			
1/2"	96.7	3.3	
3/8"			

MEDIUM SIEVE SERIES: US STANDARD			
SIEVE SIZE	PERCENT RETAINED	PERCENT PASSING	SPECIFICATION ALLOWANCE
1/4"	99.5	0.5	
#4			
1/8"			
#8			
#10			
#16			
#20			
#30			
#40			

FINE SIEVE SERIES: US STANDARD			
SIEVE SIZE	PERCENT RETAINED	PERCENT PASSING	SPECIFICATION ALLOWANCE
#50			
#60			
#80			
#100			
#140			
#200	99.8	0.2	
SILT			
CLAY			
COLLOID			



RJ VALENTE GRAVEL Inc.
1 MADISON ST.SUITE 300
TROY NY 12180
518-279-1001



ATTACHMENT 2 -
CERTIFICATION STATEMENT

TO WHOM IT MAY CONCERN:

As per your request, please accept this correspondence as follows: For the Troy (Water Street) - Phase 1A Remediation - Former MGP project in Troy, NY.

All imported materials to be delivered to the above referenced project, do not, to the best of our knowledge contain any known contamination from prior historical, industrial, commercial development or agricultural use prior to delivery.

The fill material originates from the following virgin sand and gravel pit:
Grafton Quarry as designated by the NYS DEC at, 3349 Route 2, Cropseyville, New York 12052 in Rensselaer County.

Grafton Quarry - NYSDOT Source # 1-48R

STEPHEN A.VALENTE

R. J. VALENTE GRAVEL, INC.
1 MADISON ST SUITE 300
TROY, NY 12180
(518) 271-2200

Ticket: **46672**
Date: 5/13/2022 Time: 6:59:45AM
Location: GRAFTON

Customer :9045 LAND REMEDIATION I
Order :4 NATIONAL GRID - WATER STR
TROY

P.O. :
Product : 320 #2 STONE 623.12

	Pounds	Tons	Metric
Gross	68340m	34.17 m	31.00 m
Tare	26000*	13.00 *	11.79 *
Net	42340m	21.17 m	19.21m

21.17 Ton

Carrier : 1 R.J. VALENTE GRAVEL (
Vehicle : 144 KENWORTH TANDEM
Today: 21.17 Loads: 1
Weighmaster: G ONLY

*1½% INTEREST PER MONTH (18% PER ANNUM) WILL BE CHARGED ON UNPAID BALANCES OVER 30 DAYS

Received: _____

R. J. VALENTE GRAVEL, INC.
1 MADISON ST SUITE 300
TROY, NY 12180
(518) 271-2200

Ticket: **46692**
Date: 5/13/2022 Time: 8:17:48AM
Location: GRAFTON

Customer :9045 LAND REMEDIATION I
Order :4 NATIONAL GRID - WATER STR
TROY

P.O. :
Product : 330 #3 STONE 623.12

	Pounds	Tons	Metric
Gross	68480m	34.24 m	31.06 m
Tare	26000*	13.00 *	11.79 *
Net	42480m	21.24 m	19.27 m

21.24 Ton

Carrier : 1 R.J. VALENTE GRAVEL (
Vehicle : 144 KENWORTH TANDEM
Today: 21.24 Loads: 1
Weighmaster: G ONLY

*1½% INTEREST PER MONTH (18% PER ANNUM) WILL BE CHARGED ON UNPAID BALANCES OVER 30 DAYS

Received: _____

R. J. VALENTE GRAVEL, INC.
1 MADISON ST SUITE 300
TROY, NY 12180
(518) 271-2200

Ticket: **46709**
Date: 5/13/2022 Time: 9:28:42AM
Location: GRAFTON

Customer :9045 LAND REMEDIATION I
Order :4 NATIONAL GRID - WATER STR
TROY

P.O. :
Product : 320 #2 STONE 623.12

	Pounds	Tons	Metric
Gross	68780m	34.39 m	31.20 m
Tare	26000*	13.00 *	11.79 *
Net	42780m	21.39 m	19.40 m

21.39 Ton

Carrier : 1 R.J. VALENTE GRAVEL (
Vehicle : 144 KENWORTH TANDEM
Today: 42.56 Loads: 2
Weighmaster: G ONLY

*1½% INTEREST PER MONTH (18% PER ANNUM) WILL BE CHARGED ON UNPAID BALANCES OVER 30 DAYS

Received: _____

R. J. VALENTE GRAVEL, INC.
1 MADISON ST SUITE 300
TROY, NY 12180
(518) 271-2200

Ticket: **46728**
Date: 5/13/2022 Time: 10:45:38AM
Location: GRAFTON

Customer :9045 LAND REMEDIATION I
Order :4 NATIONAL GRID - WATER STR
TROY

P.O. :
Product : 320 #2 STONE 623.12

	Pounds	Tons	Metric
Gross	67940m	33.97 m	30.82 m
Tare	26000*	13.00 *	11.79 *
Net	41940m	20.97 m	19.02 m

20.97 Ton

Carrier : 1 R.J. VALENTE GRAVEL (
Vehicle : 144 KENWORTH TANDEM
Today: 63.53 Loads: 3
Weighmaster: G ONLY

*1½% INTEREST PER MONTH (18% PER ANNUM) WILL BE CHARGED ON UNPAID BALANCES OVER 30 DAYS

Received: _____

R. J. VALENTE GRAVEL, INC.
1 MADISON ST SUITE 300
TROY, NY 12180
(518) 271-2200

Ticket: **46742**
Date: 5/13/2022 Time: 11:56:52AM
Location: GRAFTON

Customer :9045 LAND REMEDIATION I
Order :4 NATIONAL GRID - WATER STR
TROY

P.O. :
Product : 320 #2 STONE 623.12

	Pounds	Tons	Metric
Gross	68280m	34.14 m	30.97 m
Tare	26000*	13.00 *	11.79 *
Net	42280m	21.14 m	19.18 m

21.14 Ton

Carrier : 1 R.J. VALENTE GRAVEL (
Vehicle : 144 KENWORTH TANDEM
Today: 84.67 Loads: 4
Weighmaster: G ONLY

*1½% INTEREST PER MONTH (18% PER ANNUM) WILL BE CHARGED ON UNPAID BALANCES OVER 30 DAYS

Received: _____

R. J. VALENTE GRAVEL, INC.
1 MADISON ST SUITE 300
TROY, NY 12180
(518) 271-2200

Ticket: **46757**
Date: 5/13/2022 Time: 1:08:58PM
Location: GRAFTON

Customer :9045 LAND REMEDIATION I
Order :4 NATIONAL GRID - WATER STR
TROY

P.O. :
Product : 320 #2 STONE 623.12

	Pounds	Tons	Metric
Gross	69040m	34.52 m	31.32 m
Tare	26000*	13.00 *	11.79 *
Net	43040m	21.52 m	19.52 m

21.52 Ton

Carrier : 1 R.J. VALENTE GRAVEL (
Vehicle : 144 KENWORTH TANDEM
Today: 106.19 Loads: 5
Weighmaster: G ONLY

*1½% INTEREST PER MONTH (18% PER ANNUM) WILL BE CHARGED ON UNPAID BALANCES OVER 30 DAYS

Received: _____

R. J. VALENTE GRAVEL, INC.
1 MADISON ST SUITE 300
TROY, NY 12180
(518) 271-2200

Ticket: **46772**
Date: 5/13/2022 Time: 2:18:27PM
Location: GRAFTON

Customer :9045 LAND REMEDIATION I
Order :4 NATIONAL GRID - WATER STR
TROY

P.O. :
Product : 320 #2 STONE 623.12

	Pounds	Tons	Metric
Gross	66780m	33.39 m	30.29 m
Tare	26000*	13.00 *	11.79 *
Net	40780m	20.39 m	18.50 m

20.39 Ton

Carrier : 1 R.J. VALENTE GRAVEL (
Vehicle : 144 KENWORTH TANDEM
Today: 126.58 Loads: 6
Weighmaster: G ONLY

*1½% INTEREST PER MONTH (18% PER ANNUM) WILL BE CHARGED ON UNPAID BALANCES OVER 30 DAYS

Received: _____

R. J. VALENTE GRAVEL, INC.
1 MADISON ST SUITE 300
TROY, NY 12180
(518) 271-2200

Ticket: **46779**
Date: 5/13/2022 Time: 3:28:29PM
Location: GRAFTON

Customer :9045 LAND REMEDIATION I
Order :4 NATIONAL GRID - WATER STR
TROY

P.O. :
Product : 320 #2 STONE 623.12

	Pounds	Tons	Metric
Gross	67640m	33.82 m	30.68 m
Tare	26000*	13.00 *	11.79 *
Net	41640m	20.82 m	18.89 m

20.82 Ton

Carrier : 1 R.J. VALENTE GRAVEL (
Vehicle : 144 KENWORTH TANDEM
Today: 147.40 Loads: 7
Weighmaster: G ONLY

*1½% INTEREST PER MONTH (18% PER ANNUM) WILL BE CHARGED ON UNPAID BALANCES OVER 30 DAYS

Received: _____

R. J. VALENTE GRAVEL, INC.
1 MADISON ST SUITE 300
TROY, NY 12180
(518) 271-2200

Ticket: **46843**
Date: 5/16/2022 Time: 6:51:43AM
Location: GRAFTON

Customer :9045 LAND REMEDIATION I
Order :4 NATIONAL GRID - WATER STR
TROY

P.O. :
Product : 320 #2 STONE 623.12

	Pounds	Tons	Metric
Gross	70900m	35.45 m	32.16 m
Tare	26000*	13.00 *	11.79 *
Net	44900m	22.45 m	20.37 m

22.45 Ton

Carrier : 1 R.J. VALENTE GRAVEL (
Vehicle : 144 KENWORTH TANDEM
Today: 22.45 Loads: 1
Weighmaster: G ONLY

*1½% INTEREST PER MONTH (18% PER ANNUM) WILL BE CHARGED ON UNPAID BALANCES OVER 30 DAYS

Trailer Pad

Received: _____

R. J. VALENTE GRAVEL, INC.
1 MADISON ST SUITE 300
TROY, NY 12180
(518) 271-2200

Ticket: **46869**
Date: 5/16/2022 Time: 8:10:46AM
Location: GRAFTON

Customer :9045 LAND REMEDIATION I
Order :4 NATIONAL GRID - WATER STR
TROY

P.O. :
Product : 320 #2 STONE 623.12

	Pounds	Tons	Metric
Gross	67880m	33.94 m	30.79 m
Tare	26000*	13.00 *	11.79 *
Net	41880m	20.94 m	19.00 m

20.94 Ton

Carrier : 1 R.J. VALENTE GRAVEL (
Vehicle : 144 KENWORTH TANDEM
Today: 43.39 Loads: 2
Weighmaster: G ONLY

*1½% INTEREST PER MONTH (18% PER ANNUM) WILL BE CHARGED ON UNPAID BALANCES OVER 30 DAYS

Trailer Pad

Received: _____

R. J. VALENTE GRAVEL, INC.
1 MADISON ST SUITE 300
TROY, NY 12180
(518) 271-2200

Ticket: **46892**
Date: 5/16/2022 Time: 9:32:43AM
Location: GRAFTON

Customer :9045 LAND REMEDIATION I
Order :4 NATIONAL GRID - WATER STR
TROY

P.O. :
Product : 320 #2 STONE 623.12

	Pounds	Tons	Metric
Gross	67860m	33.93 m	30.78 m
Tare	26000*	13.00 *	11.79 *
Net	41860m	20.93 m	18.99 m

20.93 Ton

Carrier : 1 R.J. VALENTE GRAVEL (
Vehicle : 144 KENWORTH TANDEM
Today: 64.32 Loads: 3
Weighmaster: G ONLY

*1½% INTEREST PER MONTH (18% PER ANNUM) WILL BE CHARGED ON UNPAID BALANCES OVER 30 DAYS

Trailer Pad

Received: _____

R. J. VALENTE GRAVEL, INC.
1 MADISON ST SUITE 300
TROY, NY 12180
(518) 271-2200

Ticket: **46909**
Date: 5/16/2022 Time: 10:45:36AM
Location: GRAFTON

Customer :9045 LAND REMEDIATION I
Order :4 NATIONAL GRID - WATER STR
TROY

P.O. :
Product : 320 #2 STONE 623.12

	Pounds	Tons	Metric
Gross	68500m	34.25 m	31.07 m
Tare	26000*	13.00 *	11.79 *
Net	42500m	21.25 m	19.28 m

21.25 Ton

Carrier : 1 R.J. VALENTE GRAVEL (
Vehicle : 144 KENWORTH TANDEM
Today: 85.57 Loads: 4
Weighmaster: G ONLY

*1½% INTEREST PER MONTH (18% PER ANNUM) WILL BE CHARGED ON UNPAID BALANCES OVER 30 DAYS

Trailer Pad

Received: _____

R. J. VALENTE GRAVEL, INC.
1 MADISON ST SUITE 300
TROY, NY 12180
(518) 271-2200

Ticket: **46929**
Date: 5/16/2022 Time: 12:05:01PM
Location: GRAFTON

Customer :9045 LAND REMEDIATION I
Order :4 NATIONAL GRID - WATER STR
TROY

P.O. :
Product : 350 CRUSHER RUN

	Pounds	Tons	Metric
Gross	71320m	35.66 m	32.35 m
Tare	26000*	13.00 *	11.79 *
Net	45320m	22.66 m	20.56 m

22.66 Ton

Carrier : 1 R.J. VALENTE GRAVEL (
Vehicle : 144 KENWORTH TANDEM
Today: 22.66 Loads: 1
Weighmaster: G ONLY

*1½% INTEREST PER MONTH (18% PER ANNUM) WILL BE CHARGED ON UNPAID BALANCES OVER 30 DAYS

Access Road

Received: _____

R. J. VALENTE GRAVEL, INC.
1 MADISON ST SUITE 300
TROY, NY 12180
(518) 271-2200

Ticket: **46948**
Date: 5/16/2022 Time: 11:27:10PM
Location: GRAFTON

Customer :9045 LAND REMEDIATION I
Order :4 NATIONAL GRID - WATER STR
TROY

P.O. :
Product : 350 CRUSHER RUN

	Pounds	Tons	Metric
Gross	69560m	34.78 m	31.55 m
Tare	26000*	13.00 *	11.79 *
Net	43560m	21.78 m	19.76 m

21.78 Ton

Carrier : 1 R.J. VALENTE GRAVEL (
Vehicle : 144 KENWORTH TANDEM
Today: 44.44 Loads: 2
Weighmaster: G ONLY

*1½% INTEREST PER MONTH (18% PER ANNUM) WILL BE CHARGED ON UNPAID BALANCES OVER 30 DAYS

Access Road

Received: _____

R. J. VALENTE GRAVEL, INC.

1 MADISON ST SUITE 300
TROY, NY 12180
(518) 271-2200

Ticket: **48069**

Date: 5/26/2022 Time: 8:50:13AM

Location: GRAFTON

Customer :9045 LAND REMEDIATION I

Order :4 NATIONAL GRID - WATER STR
TROY

P.O. :

Product : 320 #2 STONE 623.12

	Pounds	Tons	Metric
Gross	72260m	36.13 m	32.78 m
Tare	26300*	13.15 *	11.93 *
Net	45960m	22.98 m	20.85 m

22.98 Ton

Carrier : 1 R.J. VALENTE GRAVEL (

Vehicle : 140 KENWORTH TANDEM

Today: 22.98 Loads: 1

Weighmaster: G ONLY

*1½% INTEREST PER MONTH (18% PER ANNUM) WILL BE CHARGED ON UNPAID BALANCES OVER 30 DAYS

Received: _____

Construction Entrance

R. J. VALENTE GRAVEL, INC.
1 MADISON ST SUITE 300
TROY, NY 12180
(518) 271-2200

Ticket: **48472**
Date: 6/2/2022 Time: 8:23:55AM
Location: GRAFTON

Customer :9045 LAND REMEDIATION I
Order :4 NATIONAL GRID - WATER STR
TROY

P.O. :
Product : 330 #3 STONE 623.12

	Pounds	Tons	Metric
Gross	67520m	33.76 m	30.63 m
Tare	26000*	13.00 *	11.79 *
Net	41520m	20.76 m	18.83 m

20.76 Ton

Carrier : 1 R.J. VALENTE GRAVEL (
Vehicle : 144 KENWORTH TANDEM
Today: 20.76 Loads: 1

Weighmaster: G ONLY

*1½% INTEREST PER MONTH (18% PER ANNUM) WILL BE CHARGED ON UNPAID BALANCES OVER 30 DAYS

Received: _____

Area 3

R. J. VALENTE GRAVEL, INC.
1 MADISON ST SUITE 300
TROY, NY 12180
(518) 271-2200

Ticket: **48480**
Date: 6/2/2022 Time: 9:27:11AM
Location: GRAFTON

Customer :9045 LAND REMEDIATION I
Order :4 NATIONAL GRID - WATER STR
TROY

P.O. :
Product : 330 #3 STONE 623.12

	Pounds	Tons	Metric
Gross	66260m	33.13 m	30.06 m
Tare	25000*	12.50 *	11.34 *
Net	41260m	20.63 m	18.72 m

20.63 Ton

Carrier : R.J. VALENTE GRAVEL (
Vehicle : 181 KENWORTH
Today: 41.39 Loads: 2

Weighmaster: G ONLY

*1½% INTEREST PER MONTH (18% PER ANNUM) WILL BE CHARGED ON UNPAID BALANCES OVER 30 DAYS

Received: _____

Temp Bridge Pkp

R. J. VALENTE GRAVEL, INC.
1 MADISON ST SUITE 300
TROY, NY 12180
(518) 271-2200

Ticket: **48490**
Date: 6/2/2022 Time: 10:42:36AM
Location: GRAFTON

Customer :9045 LAND REMEDIATION I
Order :4 NATIONAL GRID - WATER STR
TROY

P.O. :
Product : 320 #2 STONE 623.12

	Pounds	Tons	Metric
Gross	67460m	33.73 m	30.60 m
Tare	25000*	12.50 *	11.34 *
Net	42460m	21.23 m	19.26 m

21.23 Ton

Carrier : 1 R.J. VALENTE GRAVEL (
Vehicle : 181 KENWORTH
Today: 21.23 Loads: 1

Weighmaster: G ONLY

*1½% INTEREST PER MONTH (18% PER ANNUM) WILL BE CHARGED ON UNPAID BALANCES OVER 30 DAYS

Received: _____

Temp Bridge Pkp

R. J. VALENTE GRAVEL, INC.
1 MADISON ST SUITE 300
TROY, NY 12180
(518) 271-2200

Ticket: **48491**
Date: 6/2/2022 Time: 10:45:20AM
Location: GRAFTON

Customer :9045 LAND REMEDIATION I
Order :4 NATIONAL GRID - WATER STR
TROY

P.O. :
Product : 320 #2 STONE 623.12

	Pounds	Tons	Metric
Gross	67880m	33.94 m	30.79 m
Tare	26000*	13.00 *	11.79 *
Net	41880m	20.94 m	19.00 m

20.94 Ton

Carrier : 1 R.J. VALENTE GRAVEL (
Vehicle : 144 KENWORTH TANDEM
Today: 42.17 Loads: 2

Weighmaster: G ONLY

*1½% INTEREST PER MONTH (18% PER ANNUM) WILL BE CHARGED ON UNPAID BALANCES OVER 30 DAYS

Received: _____

Temp Bridge Pkp

R. J. VALENTE GRAVEL, INC.
1 MADISON ST SUITE 300
TROY, NY 12180
(518) 271-2200

Ticket: **48521**
Date: 6/2/2022 Time: 2:07:01PM
Location: GRAFTON

Customer :9045 LAND REMEDIATION I
Order :4 NATIONAL GRID - WATER STR
TROY

P.O. :
Product : 320 #2 STONE 623.12

	Pounds	Tons	Metric
Gross	69320m	34.66 m	31.44 m
Tare	25000*	12.50 *	11.34 *
Net	44320m	22.16 m	20.10 m

22.16 Ton

Carrier : 1 R.J. VALENTE GRAVEL (
Vehicle : 181 KENWORTH
Today: 64.33 Loads: 3

Weighmaster: G ONLY

*1½% INTEREST PER MONTH (18% PER ANNUM) WILL BE CHARGED ON UNPAID BALANCES OVER 30 DAYS

Received: _____

Temp Bridge Pkp

R. J. VALENTE GRAVEL, INC.
1 MADISON ST SUITE 300
TROY, NY 12180
(518) 271-2200

Ticket: **48524**
Date: 6/2/2022 Time: 2:16:05PM
Location: GRAFTON

Customer :9045 LAND REMEDIATION I
Order :4 NATIONAL GRID - WATER STR
TROY

P.O. :
Product : 320 #2 STONE 623.12

	Pounds	Tons	Metric
Gross	68260m	34.13 m	30.96 m
Tare	26000*	13.00 *	11.79 *
Net	42260m	21.13 m	19.17 m

21.13 Ton

Carrier : 1 R.J. VALENTE GRAVEL (
Vehicle : 144 KENWORTH TANDEM
Today: 85.46 Loads: 4

Weighmaster: G ONLY

*1½% INTEREST PER MONTH (18% PER ANNUM) WILL BE CHARGED ON UNPAID BALANCES OVER 30 DAYS

Received: _____

oT parking LoT

R. J. VALENTE GRAVEL, INC.

1 MADISON ST SUITE 300
TROY, NY 12180
(518) 271-2200

Ticket: **62210**

Date: 11/1/2022 Time: 7:22:25AM
Location: GRAFTON

Customer :9045 LAND REMEDIATION I
Order :4 NATIONAL GRID - WATER STR
TROY

P.O. :
Product : 320 #2 STONE 623.12

	Pounds	Tons	Metric
Gross	114820m	57.41 m	52.08 m
Tare	36540*	18.27 *	16.57 *
Net	78280m	39.14 m	35.51m

39.14 Ton

Carrier : 1 R.J. VALENTE GRAVEL (
Vehicle : 198 KENWORTH TRACTOR
Today: 39.14 Loads: 1

Weighmaster: G ONLY

*1½% INTEREST PER MONTH (18% PER ANNUM) WILL BE CHARGED ON UNPAID BALANCES OVER 30 DAYS

Received: _____

Nia Gilliam

From: Spellman, John (DEC) <john.spellman@dec.ny.gov>
Sent: Wednesday, May 11, 2022 8:41 AM
To: Adam Gutta
Cc: Adam Sherman; Nia Gilliam; Cummins, Gerald
Subject: RE: National Grid Troy (Water Street) Request to Import Crushed Stone Materials

Hi Adam,

The stone materials in the quantities you describe and originating from the Grafton Quarry identified on the Request to Import forms are approved for use on the Troy Water Street MGP Site remedial project.

Regards,

John

John Spellman, P.E.
Project Manager, Remedial Bureau C
Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway, Albany, NY 12233-7014
P: 518-402-9686| F: 518-402-9679 | john.spellman@dec.ny.gov

From: Adam Gutta <agutta@BrwnCald.com>
Sent: Tuesday, May 10, 2022 10:50 AM
To: Spellman, John (DEC) <john.spellman@dec.ny.gov>
Cc: Adam Sherman <ASherman@Brwncald.com>; Nia Gilliam <NGilliam@BrwnCald.com>
Subject: National Grid Troy (Water Street) Request to Import Crushed Stone Materials

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

John,

Please find attached three Request to Import forms for crushed stone materials for the National Grid Troy (Water Street) Remediation Project. This request includes import of up to 3,500 cubic yards of Type II Subbase, up to 800 cubic yards of No. 2 crushes stone, and up to 200 cubic yards of No. 3 crushed stone.

If you have any questions or would like to discuss please let me know. Thank you, Adam

Adam Gutta, P.E.
*Professional Engineer in New York State
Brown and Caldwell
agutta@brwncald.com
T 508.819.1410 | **C** 518.729.9363

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NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e). Use of this form is not a substitute for reading the applicable Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is: Commercial or Industrial Use

Have Ecological Resources been identified? yes

Is this soil originating from the site? no

How many cubic yards of soil will be imported/reused? 100-200

If greater than 1000 cubic yards will be imported, enter volume to be imported:

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone? yes

Does it contain less than 10%, by weight, material that would pass a size 80 sieve? yes

Is this virgin material from a permitted mine or quarry? yes

Is this material recycled concrete or brick from a DEC registered processing facility? no

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

The results of the sieve analysis (refer to Attachment 2 - Crushed Stone Sieve Analysis) for the proposed Size 3 crushed stone material show these materials have less than 10%, by weight, passing the No. 80 sieve.
No chemical testing was performed per DER-10 Section 5.4(e)5.

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

No chemical testing was performed per DER-10 Section 5.4(e)5.

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

Stephen A. Valente, Quality Representative, RJ Valente Gravel

Location where fill was obtained:

RJ Valente, 3349 Route 2, Cropseyville, NY 12052

Identification of any state or local approvals as a fill source:

NYS DOT Source 1-48R (Grafton Quarry)

If no approvals are available, provide a brief history of the use of the property that is the fill source:

Provide a list of supporting documentation included with this request:

Attachment 1 - Source Certification Statement
Attachment 2 - Geotechnical Sieve Analysis Results (Size 3 crushed stone)

The information provided on this form is accurate and complete.

Adam Sherman

Digitally signed by Adam Sherman
DN: CN=Adam Sherman, OU=Albany, OU=User, OU=Accounts, OU=BC, DC=bc, DC=brwncald, DC=com
Date: 2022.05.10 10:05:13-04'00'

Signature

5/10/22

Date

Adam Sherman

Print Name

Brown and Caldwell Associates

Firm

CONSTRUCTION TECHNOLOGY

INSPECTION & TESTING DIVISION, P.D.& T.S., INC.
4 William Street, Ballston Lake, New York 12019
Phone: (518) 399-1848 Email: constructiontech@live.com

ATTACHMENT 1 - GEOTECHNICAL GRADATION

CLIENT: **LAND REMEDIATION**
74 HUDSON RIVER ROAD
WATERFORD, NEW YORK 12188

REPORT DATE: 08/11/21
SAMPLE NUMBER: 21360
OUR FILE NO: 1526.015

Robert Behan

ATT'N: MR. JONATHON BORRELLI
REVIEWED BY: ROBERT BEHAN, NICET

PROJECT: **NATIONAL GRID DUCT BANK PROJECT: GLENS FALLS, NEW YORK**

ASTM C136 / C117 / D422: SIZE DISTRIBUTION OF SOIL & AGGREGATES: SIEVE ANALYSIS

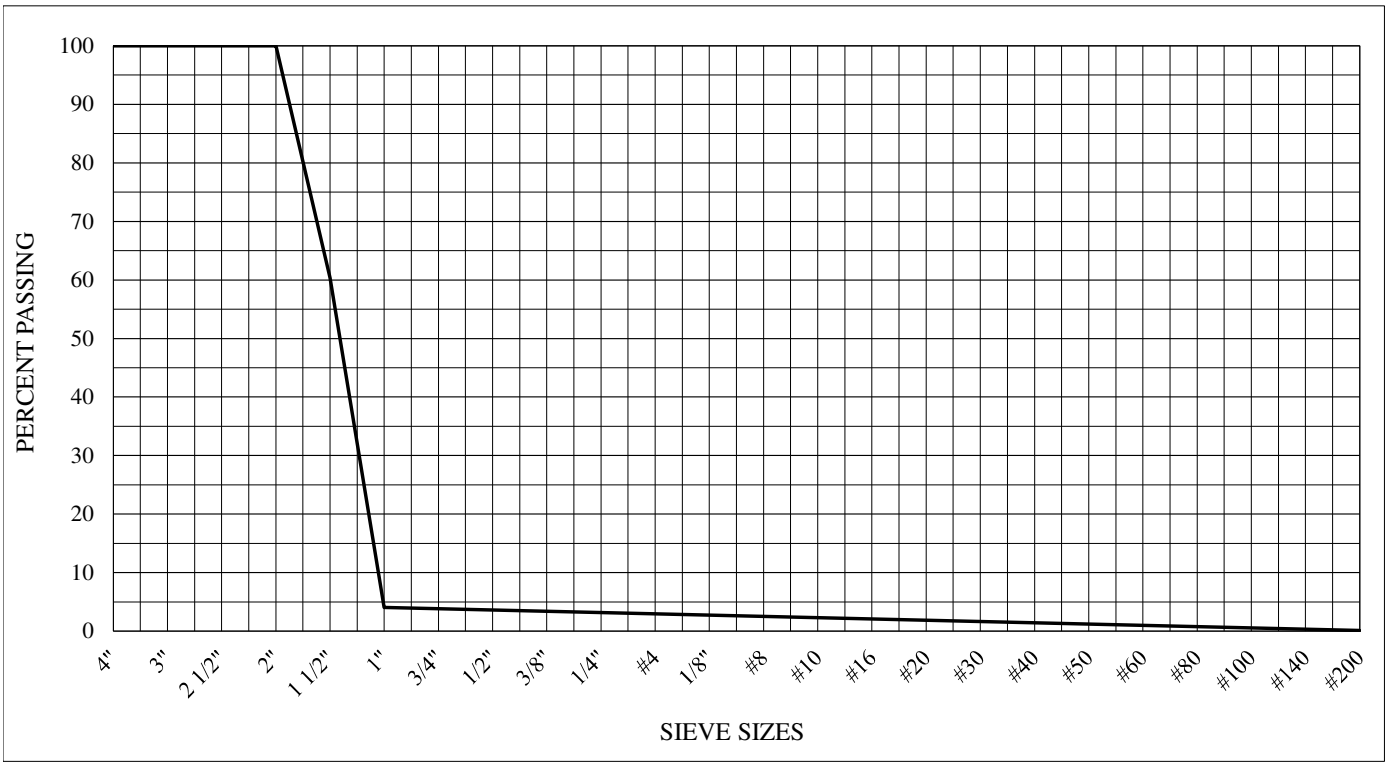
MATERIAL SOURCE: **BORROW: BLENDED #3 & #4 STONE**
MATERIAL DESCRIPTION: CRUSHED STONE sized as: GRAVEL, fine; trace Silt/Clay
MATERIAL PROJECT USE: PER CLIENT
EVALUATION SPECIFICATION: PROJECT SPECIFICATIONS

NYSDOT Size Designation 3 Coarse Aggregate

COARSE SIEVE SERIES: US STANDARD			
SIEVE SIZE	PERCENT RETAINED	PERCENT PASSING	SPECIFICATION ALLOWANCE
4"			
3"			
2 1/2"			
2"	0.0	100.0	
1 1/2"	39.7	60.3	
1"	95.9	4.1	
3/4"			
1/2"			
3/8"			

MEDIUM SIEVE SERIES: US STANDARD			
SIEVE SIZE	PERCENT RETAINED	PERCENT PASSING	SPECIFICATION ALLOWANCE
1/4"			
#4			
1/8"			
#8			
#10			
#16			
#20			
#30			
#40			

FINE SIEVE SERIES: US STANDARD			
SIEVE SIZE	PERCENT RETAINED	PERCENT PASSING	SPECIFICATION ALLOWANCE
#50			
#60			
#80			
#100			
#140			
#200	99.9	0.1	
SILT			
CLAY			
COLLOID			



RJ VALENTE GRAVEL Inc.
1 MADISON ST.SUITE 300
TROY NY 12180
518-279-1001



ATTACHMENT 2 -
CERTIFICATION STATEMENT

TO WHOM IT MAY CONCERN:

As per your request, please accept this correspondence as follows: For the Troy (Water Street) - Phase 1A Remediation - Former MGP project in Troy, NY.

All imported materials to be delivered to the above referenced project, do not, to the best of our knowledge contain any known contamination from prior historical, industrial, commercial development or agricultural use prior to delivery.

The fill material originates from the following virgin sand and gravel pit:
Grafton Quarry as designated by the NYS DEC at, 3349 Route 2, Cropseyville, New York 12052 in Rensselaer County.

Grafton Quarry - NYSDOT Source # 1-48R

STEPHEN A.VALENTE

Nia Gilliam

From: Spellman, John (DEC) <john.spellman@dec.ny.gov>
Sent: Monday, August 1, 2022 8:36 AM
To: Adam Gutta
Cc: Adam Sherman; Nia Gilliam; Cummins, Gerald; Charles Atanasio
Subject: RE: National Grid Troy (Water Street) Request to Import Crushed Stone Materials

Hi Adam,

Your July 27, 2022 request to import No. 3 crushed stone is approved.

Regards,

John

John Spellman, P.E.
Project Manager, Remedial Bureau C
Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway, Albany, NY 12233-7014
P: 518-402-9686| F: 518-402-9679 | john.spellman@dec.ny.gov

From: Adam Gutta <agutta@BrwnCald.com>
Sent: Wednesday, July 27, 2022 10:03 AM
To: Spellman, John (DEC) <john.spellman@dec.ny.gov>
Cc: Adam Sherman <ASherman@Brwncald.com>; Nia Gilliam <NGilliam@BrwnCald.com>; Cummins, Gerald <Gerald.Cummins@nationalgrid.com>; Charles Atanasio <Catanasio@BrwnCald.com>
Subject: RE: National Grid Troy (Water Street) Request to Import Crushed Stone Materials

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

John,
Attached for your review is a Request to Import Fill for No. 3 Crushed Stone (an additional 200 cubic yards, up to 400 cubic yards total). This stone is being used primarily for the temporary access roads and tracking pad on-site.

Thank you,
Adam Gutta, P.E.

From: Spellman, John (DEC) <john.spellman@dec.ny.gov>
Sent: Wednesday, May 11, 2022 8:41 AM
To: Adam Gutta <agutta@BrwnCald.com>
Cc: Adam Sherman <ASherman@Brwncald.com>; Nia Gilliam <NGilliam@BrwnCald.com>; Cummins, Gerald

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e). Use of this form is not a substitute for reading the applicable Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is: Commercial or Industrial Use

Have Ecological Resources been identified? yes

Is this soil originating from the site? no

How many cubic yards of soil will be imported/reused? 100-200

If greater than 1000 cubic yards will be imported, enter volume to be imported:

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone? yes

Does it contain less than 10%, by weight, material that would pass a size 80 sieve? yes

Is this virgin material from a permitted mine or quarry? yes

Is this material recycled concrete or brick from a DEC registered processing facility? no

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

The results of the sieve analysis (refer to Attachment 2 - Crushed Stone Sieve Analysis) for the proposed Size 3 crushed stone material show these materials have less than 10%, by weight, passing the No. 80 sieve.
No chemical testing was performed per DER-10 Section 5.4(e)5.

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

No chemical testing was performed per DER-10 Section 5.4(e)5.

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

Stephen A. Valente, Quality Representative, RJ Valente Gravel

Location where fill was obtained:

RJ Valente, 3349 Route 2, Cropseyville, NY 12052

Identification of any state or local approvals as a fill source:

NYS DOT Source 1-48R (Grafton Quarry)

If no approvals are available, provide a brief history of the use of the property that is the fill source:

Provide a list of supporting documentation included with this request:

Attachment 1 - Source Certification Statement
Attachment 2 - Geotechnical Sieve Analysis Results (Size 3 crushed stone)

CONSTRUCTION TECHNOLOGY

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4 William Street, Ballston Lake, New York 12019
Phone: (518) 399-1848 Email: constructiontech@live.com

ATTACHMENT 1 - GEOTECHNICAL GRADATION

CLIENT: **LAND REMEDIATION**
74 HUDSON RIVER ROAD
WATERFORD, NEW YORK 12188

REPORT DATE: 08/11/21
SAMPLE NUMBER: 21360
OUR FILE NO: 1526.015

Robert Behan

ATT'N: MR. JONATHON BORRELLI
REVIEWED BY: ROBERT BEHAN, NICET

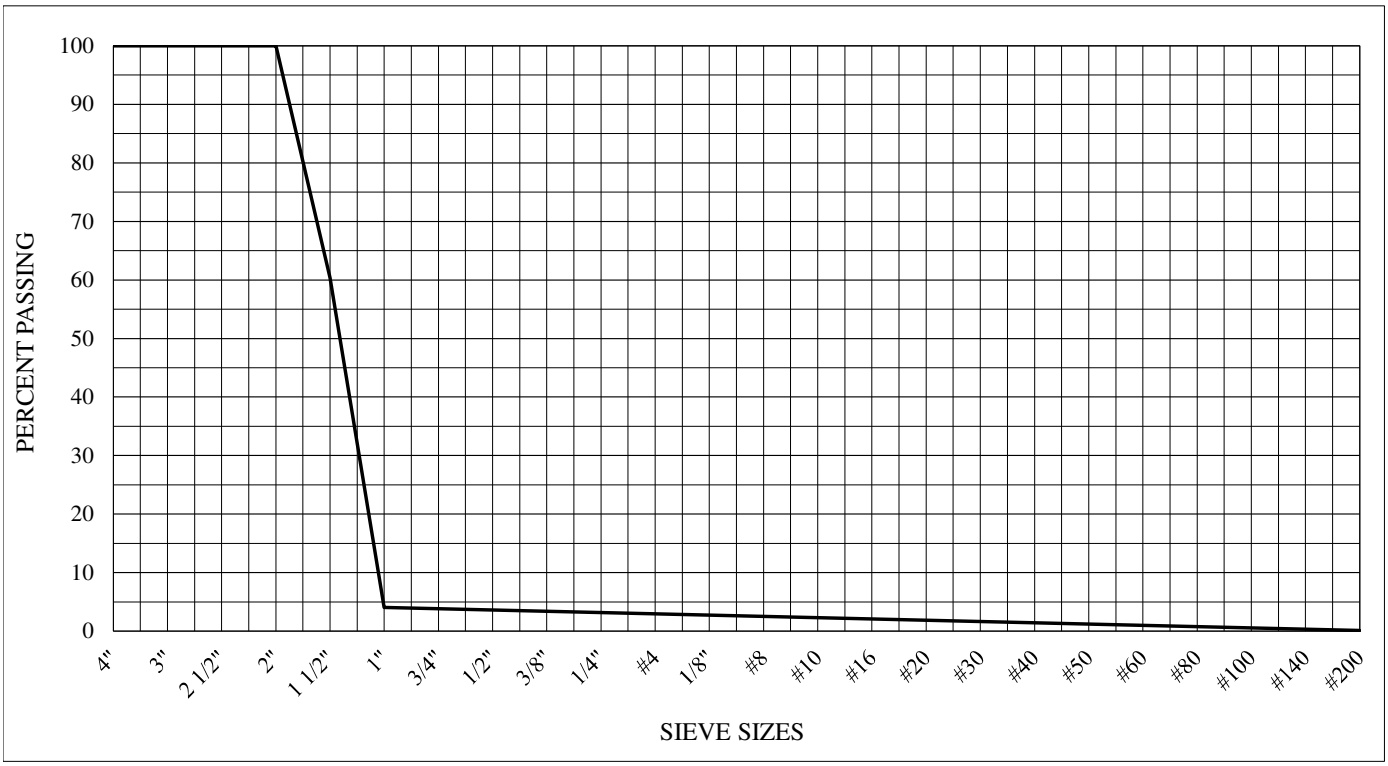
PROJECT: **NATIONAL GRID DUCT BANK PROJECT: GLENS FALLS, NEW YORK**

ASTM C136 / C117 / D422: SIZE DISTRIBUTION OF SOIL & AGGREGATES: SIEVE ANALYSIS

MATERIAL SOURCE: **BORROW: BLENDED #3 & #4 STONE**
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EVALUATION SPECIFICATION: PROJECT SPECIFICATIONS

NYSDOT Size Designation 3 Coarse Aggregate

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Grafton Quarry - NYSDOT Source # 1-48R

STEPHEN A.VALENTE