Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	CTW000517375	1	203-915-2573	#001015928RED

5. Generator's Name and Mailing Address
Shawn Crosbie
United Illuminating Company
180 Marsh Hill Road AD-1A
Orange, CT 06477
Generator's Phone: 203-926-4595

Generator's Site Address (if different than mailing address)
United Illuminating Company
510A Grand Avenue Parcel A, Station B
New Haven, CT 06511

6. Transporter 1 Company Name: Red Technologies
U.S. EPA ID Number: CTD000505900

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Minerva Enterprises, LLC
9000 Minerva Road
Waynesburg, OH 44688
Facility's Phone: 330-866-3435
U.S. EPA ID Number

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	NA2212, Asbestos, 9, III, (PCB Excluded Waste w/Asbestos)	1	DT	20000	K
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information
Document D20003 Sales Order 2929 Job 19-103; Weight is estimated
1)Profile#15060619E ASBESTOS, EXCLUDED WASTE PCB >1<50 PPM DOT ERG#171

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Matt Blumenthal(?) As agent of UI
Signature: [signature]
Month 8 Day 23 Year 19

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name — Signature [signature] — Month Day Year
Transporter 2 Printed/Typed Name — Signature — Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator) Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name — Signature — Month Day Year

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	CTW00517374	1	203-916-3879	#001015929RED

5. Generator's Name and Mailing Address
Shawn Crosbie
United Illuminating Company
180 Marsh Hill Road AO-1A
Orange, CT 06477
Generator's Phone: 203-926-4595

Generator's Site Address (if different than mailing address)
United Illuminating Company
510A Grand Avenue Parcel A, Station B
New Haven, CT 06511

6. Transporter 1 Company Name: Red Technologies
U.S. EPA ID Number: CTD000505955

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Minerva Enterprises, LLC
9000 Minerva Road
Waynesburg, OH 44688
Facility's Phone: 330-866-3435
U.S. EPA ID Number:

	9. Waste Shipping Name and Description	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.
1	NA2212, Asbestos, 9, III, (PCB Excluded Waste w/Asbestos)	1	DT	20000	K
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information Document D20003 Sales Order 2929 Job 19-103; Weight is estimated

1)Profile#15060819E ASBESTOS, EXCLUDED WASTE PCB >1<50 PPM DOT ERG#171

T-4 Tarp Trailer 17 RL 4570

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Mark Sh... (BI) Agent of UI
Signature: [signature]
Month 2 Day 23 Year 17

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Jordan Kelsey
Signature: Jordan Kelsey
Month 2 Day [illegible] Year 19

Transporter 2 Printed/Typed Name:
Signature: Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator) Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name Signature Month Day Year

GENERATOR · INT'L · TRANSPORTER · DESIGNATED FACILITY

Please print or type
Form designed for use on elite (12-pitch) typewriter.

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
CTD000517375	1	203-915-2573	#00101592TRED

5. Generator's Name and Mailing Address
Shawn Crosbie
United Illuminating Company
Illuminating Company
180 Marsh Hill Road AD-1A

Generator's Site Address (if different than mailing address)
510A Grand Avenue Parcel A, Station B
New Haven, CT 06511

Generator's Phone: 203-926-4595

6. Transporter 1 Company Name: [illegible]
U.S. EPA ID Number: CTD000505958

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Minerva Enterprises, LLC
8000 Minerva Road
Waynesburg, OH 44688
U.S. EPA ID Number

Facility's Phone: 330-868-3435

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	NA2212, Asbestos, 9, III, (PCB Excluded Waste w/Asbestos)	1	DT	20000	K
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information
Document D20003 Sales Order 2929 Job 19-103; Weight is estimated
1)Profile#15060619E ASBESTOS, EXCLUDED WASTE PCB >1<50 PPM DOT ERG#171
[illegible handwriting]

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: [illegible handwriting] Signature: [illegible] Month [illegible] Day [illegible] Year [illegible]

INT'L
15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER
16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: [illegible] Signature: [illegible] Month Day Year
Transporter 2 Printed/Typed Name Signature Month Day Year

DESIGNATED FACILITY
17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator) Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name Signature Month Day Year

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number CTW000617375	2. Page 1 of 1	3. Emergency Response Phone 203-915-2573	4. Waste Tracking Number #00101592GRED

GENERATOR

5. Generator's Name and Mailing Address
Shawn Crosbie
United Illuminating Company
180 Marsh Hill Road AD-1A
Orange, CT 06477
Generator's Phone: 203-929-4595

Generator's Site Address (if different than mailing address)
United Illuminating Company
510A Grand Avenue Parcel A Station B
New Haven, CT 06511

6. Transporter 1 Company Name: Red Technologies
U.S. EPA ID Number: CTD000 [illegible]

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Minerva Enterprises, LLC
9000 Minerva Road
Waynesburg, OH 44688
Facility's Phone: 330-866-3435
U.S. EPA ID Number

9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1. NA2212, Asbestos, 9, III, (PCB Excluded Waste w/Asbestos)	1	DP / CM	20000	K	
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information
Document D20003 Sales Order 2929 Job 19-103; Weight is estimated
1)Profile#15060619E ASBESTOS, EXCLUDED WASTE PCB >1<50 PPM DOT ERG#171
[illegible]
T1 - CT [illegible]

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Matt Shields (TRC) As agent of UI
Signature: [signature]
Month 8 Day 21 Year 19

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: [illegible]
Signature: [signature]
Month Day Year

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name
Signature
Month Day Year

Please print or type.
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: CJW000517376
2. Page 1 of 1
3. Emergency Response Phone: 203-946-2672
4. Waste Tracking Number: #00101592SRED

5. Generator's Name and Mailing Address: Shawn Crosbie
United Illuminating Company
180 Marsh Hill Road AD-1A
Orange, CT 06477
Generator's Phone: 203-926-4595

Generator's Site Address (if different than mailing address):
United Illuminating Company
510A Grand Avenue Parcel A Station B
New Haven, CT 06511

6. Transporter 1 Company Name: Red Technologies
U.S. EPA ID Number: CTR000508858

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address:
Minerva Enterprises, LLC
9000 Minerva Road
Waynesburg, OH 44688
Facility's Phone: 330-866-3435
U.S. EPA ID Number:

GENERATOR

9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1. NA2212, Asbestos, 9, III, (PCB Excluded Waste w/Asbestos)	1	DT	20000	K
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information: Document D20003 Sales Order 2929 Job 19-103; Weight is estimated
1)Profile#15060619E ASBESTOS, EXCLUDED WASTE PCB >1<50 PPM DOT ERG#171
CT-V-11691 T31
CT 43514 A 2007

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Matt Humphrey (TRC) As agent of UI
Signature: [signature]
Month 8 Day 21 Year 19

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S.
Port of entry/exit:
Transporter Signature (for exports only):
Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Jordan Helsey RCC 318 2468
Signature: Jordan Helsey
Month 8 Day 21 Year 19

Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

DESIGNATED FACILITY

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name
Signature
Month Day Year

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	CTW00051737[illegible]	4	203-915-2573	#001015924RED

5. Generator's Name and Mailing Address Shawn Crosbie

United Illuminating Company
180 Marsh Hill Road AD-1A
Orange, CT 06477

Generator's Phone: 203-926-4695

Generator's Site Address (if different than mailing address)

United Illuminating Company
510A Grand Avenue Parcel A, Station B
New Haven, CT 06511

6. Transporter 1 Company Name [illegible] — U.S. EPA ID Number [illegible]

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

Minerva Enterprises, LLC
9000 Minerva Road
Waynesburg, OH 44688

Facility's Phone: 330-866-3435

9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1. NA2212, Asbestos, 9, III, (PCB Excluded Waste w/Asbestos)	1	DT	20000	K
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information

Document D20003 Sales Order 2929 Job 19-103; Weight is estimated

1)Profile#15060619E ASBESTOS, EXCLUDED WASTE PCB >1<50 PPM DOT ERG#171

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: [illegible] Agent of UI — Signature: [illegible] — Month 8 Day 20 Year 19

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: [illegible] — Signature: [illegible] — Month 8 Day 20 Year 19

Transporter 2 Printed/Typed Name — Signature — Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month Day Year

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

Please print or type.
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	CTD000517375	1	203-215-2679	#00101592RED

5. Generator's Name and Mailing Address: Shawn Crosbie
United Illuminating Company
180 Marsh Hill Road AD-1A
Orange, CT 06477
Generator's Phone: 203-926-4596

Generator's Site Address (if different than mailing address):
United Illuminating Company
510A Grand Avenue Parcel A, Station B
New Haven, CT 06511

6. Transporter 1 Company Name: ALL STATE HWCA VA — U.S. EPA ID Number: NTO[illegible]

7. Transporter 2 Company Name: — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: — U.S. EPA ID Number:
Minerva Enterprises, LLC
9000 Minerva Road
Waynesburg, OH 44688
Facility's Phone: 330-866-3435

GENERATOR

9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1. NA2212, Asbestos, 9 , III, (PCB Excluded Waste w/Asbestos)	1	DT CM	20000	K	
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information: Document D20003 Sales Order 2929 Job 19-103; Weight is estimated

1)Profile#15060619E ASBESTOS, EXCLUDED WASTE PCB >1<50 PPM DOT ERG#171
457575
Dump tk 5097

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Matt Blanchard as agent of UI — Signature: [signature] — Month: 8 Day: 20 Year: 19

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: [illegible] — Signature: [signature] — Month: Day: Year: 19
Transporter 2 Printed/Typed Name: — Signature: — Month: Day: Year:

DESIGNATED FACILITY

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator) — U.S. EPA ID Number:
Facility's Phone:
17c. Signature of Alternate Facility (or Generator) — Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: — Signature: — Month: Day: Year:

Please print or type.
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	CTD000517375	1	203-916-2573	#001015922RED

5. Generator's Name and Mailing Address
Shawn Crosbie
United Illuminating Company
180 Marsh Hill Road AD-1A
Orange, CT 06477
Generator's Phone: 203-926-4595

Generator's Site Address (if different than mailing address)
United Illuminating Company
510A Grand Avenue Parcel A, Station B
New Haven, CT 06511

6. Transporter 1 Company Name [illegible] — U.S. EPA ID Number [illegible]

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number
Minerva Enterprises, LLC
9000 Minerva Road
Waynesburg, OH 44688
Facility's Phone: 330-866-3435

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
	1. NA2212, Asbestos, 9, III, (PCB Excluded Waste w/Asbestos)	1	DT	20000	K
	2.				
	3.				
	4.				

13. Special Handling Instructions and Additional Information Document D20003 Sales Order 2829 Job 19-103; Weight is estimated

1)Profile#15060619E ASBESTOS, EXCLUDED WASTE PCB >1<50 PPM DOT ERG#171

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Matt Blanchard (TRC) As agent of UI — Signature: [illegible] — Month 8 Day 20 Year 19

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name [illegible] — Signature [illegible] — Month Day Year
Transporter 2 Printed/Typed Name — Signature — Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name — Signature — Month Day Year

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

Please print or type.
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
CTW000617375	1	203-916-2573	#001015921RED

5. Generator's Name and Mailing Address
Shawn Crosbie
United Illuminating Company
180 Marsh Hill Road AD-1A
Orange, CT 06477
Generator's Phone: 203-926-4556

Generator's Site Address (if different than mailing address)
United Illuminating Company
510A Grand Avenue Parcel A, Station B
New Haven, CT 06511

6. Transporter 1 Company Name: [illegible]
U.S. EPA ID Number: [illegible]

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Minerva Enterprises, LLC
9000 Minerva Road
Waynesburg, OH 44688
Facility's Phone: 330-866-3435
U.S. EPA ID Number

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
GENERATOR	1 NA2212, Asbestos, 9, III, (PCB Excluded Waste w/Asbestos)	1	DT	20000	K
	2.				
	3.				
	4.				

13. Special Handling Instructions and Additional Information: Document D20003 Sales Order 2929 Job 19-103; Weight is estimated

1)Profile#15060619E ASBESTOS, EXCLUDED WASTE PCB >1<50 PPM DOT ERG#171

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name	Signature	Month	Day	Year
Matt Blumstein (TRC) As agent of UI	[signature]	8	19	19

INT'L
15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER
16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name	Signature	Month	Day	Year
[illegible]	[signature]	8	19	19

Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

DESIGNATED FACILITY
17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)	Month	Day	Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name	Signature	Month	Day	Year

GENERATOR'S/SHIPPER'S INITIAL COPY

Please print or type.
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
CTW000517375	1	203-915-2573	#001015920RED

5. Generator's Name and Mailing Address Shawn Crosbie

United Illuminating Company
180 Marsh Hill Road AO-1A
Orange, CT 06477

Generator's Phone: 203-926-4595

Generator's Site Address (if different than mailing address)

United Illuminating Company
510A Grand Avenue Parcel A, Station B
New Haven, CT 06511

	U.S. EPA ID Number
6. Transporter 1 Company Name [illegible]	[illegible]
7. Transporter 2 Company Name	
8. Designated Facility Name and Site Address Minerva Enterprises, LLC 9000 Minerva Road Waynesburg, OH 44688 Facility's Phone: 330-866-3435	

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. NA2212, Asbestos, 9, III, (PCB Excluded Waste w/Asbestos)	1	DT	20000	K	
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information Document D20003 Sales Order 2929 Job 19-103; Weight is estimated

1)Profile#15060619E ASBESTOS, EXCLUDED WASTE PCB >1<50 PPM DOT ERG#171

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name	Signature	Month	Day	Year
Matt Rhodes (?) As agent of UI	[signature]	8	19	19

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

	Printed/Typed Name	Signature	Month	Day	Year
Transporter 1	[illegible]	[signature]			
Transporter 2					

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name	Signature	Month	Day	Year

GENERATOR · INT'L · TRANSPORTER · DESIGNATED FACILITY

Please print or type.
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: CTW00051737E
2. Page 1 of: 1
3. Emergency Response Phone: 203-946-2573
4. Waste Tracking Number: #001015919RED

GENERATOR

5. Generator's Name and Mailing Address:
Shawn Crosbie
United Illuminating Company
180 Marsh Hill Road AD-1A
Orange, CT 06477
Generator's Phone: 203-926-4595

Generator's Site Address (if different than mailing address):
United Illuminating Company
510A Grand Avenue Parcel A, Station 8
New Haven, CT 06511

6. Transporter 1 Company Name: [illegible]
U.S. EPA ID Number: [illegible]

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address:
Minerva Enterprises, LLC
9000 Minerva Road
Waynesburg, OH 44688
Facility's Phone: 330-866-3435
U.S. EPA ID Number:

9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1. NA2212, Asbestos, 9, III, (PCB Excluded Waste w/Asbestos)	1	DT	20000	K
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information: Document D20003 Sales Order 2929 Job 19-103; Weight is estimated
1)Profile#15060619E ASBESTOS, EXCLUDED WASTE PCB >1<50 PPM DOT ERG#171

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: [illegible] (UI) As agent of UI
Signature: [illegible]
Month: 8 Day: 19 Year: 19

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Alterio [illegible] Valley
Signature: [illegible]
Month: 8 Day: 19 Year: 19

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name:
Signature:
Month: Day: Year:

GENERATOR'S/SHIPPER'S INITIAL COPY

Please print or type.
(Form designed for use on elite (12-pitch) typewriter.)

GENERATOR

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number CTW000517376	2. Page 1 of 1	3. Emergency Response Phone 203-915-2573	4. Waste Tracking Number #001015918RED

5. Generator's Name and Mailing Address
Shawn Crosbie
United Illuminating Company
180 Marsh Hill Road AD-1A
Orange, CT 06477
Generator's Phone: 203-926-4595

Generator's Site Address (if different than mailing address)
United Illuminating Company
510A Grand Avenue Parcel A, Station B
New Haven, CT 06511

6. Transporter 1 Company Name
[illegible]
U.S. EPA ID Number
[illegible]

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Minerva Enterprises, LLC
9000 Minerva Road
Waynesburg, OH 44688
Facility's Phone: 330-868-3435
U.S. EPA ID Number

9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1. NA2212, Asbestos, 9 , III, (PCB Exluded Waste w/Asbestos)	1	DT	20000	K	
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information
Document D20003 Sales Order 2929 Job 19-103; Weight is estimated
1)Profile#15060619E ASBESTOS, EXCLUDED WASTE PCB >1<50 PPM DOT ERG#171

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name	Signature	Month	Day	Year
[illegible] agent of UI	[illegible]	8	16	19

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name	Signature	Month	Day	Year
[illegible]	[illegible]	8	16	19

Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

DESIGNATED FACILITY

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name	Signature	Month	Day	Year

Please print or type.
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number CTW000517375	2. Page 1 of 1	3. Emergency Response Phone 203-915-3573	4. Waste Tracking Number #C01015917RED

5. Generator's Name and Mailing Address
Shawn Crosbie
United Illuminating Company
180 Marsh Hill Road AD-1A
Orange, CT 06477
Generator's Phone: 203-926-4505

Generator's Site Address (if different than mailing address)
United Illuminating Company
510A Grand Avenue Parcel A, Station B
New Haven, CT 06511

6. Transporter 1 Company Name: RED TECHNOLOGIES — U.S. EPA ID Number: CTR [illegible]

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number
Minerva Enterprises, LLC
9000 Minerva Road
Waynesburg, OH 44688
Facility's Phone: 330-868-3435

GENERATOR

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	NA2212, Asbestos, 9 , III, (PCB Excluded Waste w/Asbestos)	1	DT	20000	K
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information Document D20003 Sales Order 2929 Job 19-103; Weight is estimated
1)Profile#15060619E ASBESTOS, EXCLUDED WASTE PCB >1<50 PPM DOT ERG#171
[illegible]
[illegible] 79621

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Matt Blumstein (TPO) As an Agent of UI — Signature: [signature] — Month 8 Day 16 Year 19

INT'L
15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER
16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: RED Tech Ahmed Thialaw — Signature: [signature] — Month 8 Day 16 Year 19
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY
17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name — Signature — Month Day Year

Please print or type.
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number: CTW000517375	2. Page 1 of 1	3. Emergency Response Phone: 203-915-2573	4. Waste Tracking Number: #00101591 6RED

GENERATOR

5. Generator's Name and Mailing Address:
Shawn Crosbie
United Illuminating Company
180 Marsh Hill Road AD-1A
Orange, CT 06477
Generator's Phone: 203-926-4595

Generator's Site Address (if different than mailing address):
United Illuminating Company
510A Grand Avenue Parcel A, Station B
New Haven, CT 06511

6. Transporter 1 Company Name: RED TECHNOLOGIES — U.S. EPA ID Number: CTD000505958

7. Transporter 2 Company Name: — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: — U.S. EPA ID Number:
Minerva Enterprises, LLC
9000 Minerva Road
Waynesburg, OH 44688
Facility's Phone: 330-866-3435

9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1. NA2212, Asbestos, 9 , III, (PCB Excluded Waste w/Asbestos)	1	~~DT~~ CM	20000	K
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information: Document D20003 Sales Order 2929 Job 19-103; Weight is estimated

1)Profile#15060619E ASBESTOS, EXCLUDED WASTE PCB >1<50 PPM DOT ERG#171

Trailers: AE 46743, 60982 A

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Matt Blumstein (TRC) As an agent of UI — Signature — Month 8 Day 15 Year 19

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Jason Dennis — Signature — Month 8 Day 15 Year 19
Transporter 2 Printed/Typed Name: — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name — Signature — Month Day Year

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number CTP000003367[illegible]	2. Page 1 of 1	3. Emergency Response Phone 908-354-0210	4. Manifest Tracking Number 019502003 JJK

GENERATOR

5. Generator's Name and Mailing Address
UNITED ILLUMINATING
180 MARSH HILL ROAD
ORANGE, CT 06477
Generator's Phone: 203-926-4595

Generator's Site Address (if different than mailing address)
UNITED ILLUMINATING
510A GRAND AVENUE (STATION B)
NEW HAVEN, CT 06511

6. Transporter 1 Company Name: ALLSTATE POWER VAC, INC. — U.S. EPA ID Number: NJD003812047

7. Transporter 2 Company Name: — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
CYCLE CHEM, INC.
217 SOUTH FIRST STREET
ELIZABETH, NJ 07206
Facility's Phone: 908-355-5800
U.S. EPA ID Number: NJD002200046

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, UN1075, Waste Petroleum gases, liquefied, 2.1	004	CY	080	P	D001
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information: Document D27653 Sales Order 27738

1)Profile#76324 PROPANE CYLINDERS DOT ERG#115

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Matt Blinstein As an agent of UI — Signature: [signature] — Month 08 Day 15 Year 19

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: ROB RADCLIFFE — Signature: Rob Radcliffe — Month 08 Day 15 Year 19
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name — Signature — Month Day Year

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

GENERATOR'S INITIAL COPY

ACV ENVIRO. *Recycling, Treatment & Disposal of Hazardous Waste*

217 South First Street, Elizabeth, NJ 07206 * 908-355-5800, Fax (908) 355-0562

Generator Name: United Illuminating

Generator EPA ID #: CTP0000033579

Manifest #: 019502003JJK

LAND DISPOSAL RESTRICTION NOTIFICATION AND CERTIFICATION FORM

This land disposal restriction (LDR) notification must be submitted with the initial shipment of all new waste streams. Subsequent notification is not required unless the waste stream changes. All sections MUST be completed. INSTRUCTION

WASTE STREAM INFORMATION – For each manifest line complete the following sections. For LDR's previously submitted or LAB PACK's with packing slips indicate such in column A or B and stop.

	A	B	C	D Treatability Group		E	F Treatment Method for Hazardous Waste per 40CFR268			
Line #	LDR on file Non RCRA	Lab Pack & Packing Slip	EPA Waste Codes and subcategory reference letter from table (if applicable)	WW Wastewater < 1% TOC < 1% TSS / NWW/ Not WW		F001 to F005 list numbers of Spent Solvent Constituents	Requires treatment mark which standard applies / For All SOIL Treatment Complete certification below			Meets LDR treatment standards 40CFR268 Listed Waste Certify below
1		☐	D001	☒ NWW	☐ WW		☒ Other	☐ SOIL	☐ DEBRIS	☐
2		☐		☐ NWW	☐ WW		☐ Other	☐ SOIL	☐ DEBRIS	☐
3		☐		☐ NWW	☐ WW		☐ Other	☐ SOIL	☐ DEBRIS	☐
4		☐		☐ NWW	☐ WW		☐ Other	☐ SOIL	☐ DEBRIS	☐

ADDITIONAL INFORMATION FOR CHARACTERISTIC CODES D001 to D043. (check one)

☐ Some or all of these waste streams contain underlying hazardous constituents (UHCs) in excess of the treatment standard of 40CFR268.40. These are indicated on the UHC/UTS table section of this LDR form or included on the waste profile.

☒ There are no underlying hazardous constituents (UHCs) present in any of these waste streams.

SUBCATEGORY LETTER TABLE

D001	A	Ignitable except high TOC ignitable liquids
	B	High TOC (> 10%) ignitable liquid
D003	A	Reactive sulfide
	B	Reactive cyanide
	C	Water reactive
	D	Other reactive
D006	A	Cadmium non-battery
	B	Cadmium containing batteries
D008	A	Lead non-battery
	B	Lead acid batteries
D009	A	High mercury organic (>260 PPM Total Hg)
	B	High mercury inorganic (> 260 PPM Total Hg)
	C	Low mercury (< 260 PPM Total Hg)
	D	Mercury wastewater

SPENT SOLVENT WASTE CONSTITUENTS

For F001-F005 indicate number of constituent in above table

1) acetone	15) methanol
2) benzene	16) methylene chloride
3) n-butyl alcohol	17) methyl ethyl ketone
4) iso-butyl alcohol	18) methyl isobutyl ketone
5) carbon disulfide	19) nitrobenzene
6) carbon tetrachloride	20) pyridine
7) chlorobenzene	21) tetrachloroethylene (Perc)
8) Cresols [o, m or p]	22) toluene
9) cresylic acid	23) 1,1,1,-trichloroethane
10) cyclohexanone	24) 1,1,2-trichloroethane
11) o-dichlorobenzene	25) trichloroethylene
12) ethyl acetate	26) trichloromonofluoromethane
13) ethyl benzene	27) 1,1,2-trichloro-1,2,2,-trifluoroethane
14) ethyl ether	28) xylenes

☐ **This SOIL CERTIFICATION per alternate soil treatment {268.49} for indicated [circle] items.**

*This is a hazardous waste contaminated soil. This contaminated soil **does/does not** (circle one) contain listed hazardous wastes and **does/does not** (circle one) exhibit a characteristic of hazardous waste and **is subject to/complies with** (circle one) the soil treatment standards as provided by 268.49(c) or the universal treatment standards.*

☐ **This Certification for material that meets treatment standards applies to the above listed items.**

This is an EPA hazardous waste that meets all applicable treatment standards set forth in 40 CFR 268 subpart D, and can be landfilled without further treatment. I certify under penalty of law that I have personally examined and am familiar with the waste through analysis and testing or thorough knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA Section 3004(d). I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.

CERTIFICATION- All section MUST be completed: I certify that all information on this and all associated documents is complete and accurate to the best of my knowledge.

Signature: Matthew Blumstein **Title:** Env Scientist As an agent of UI

Printed Name: Matt Blumstein **Date:** 8/15/19

ACV ENVIRO

INDUSTRIAL / ENVIRONMENTAL SERVICES
800-7-SPILLS

T&M # UITM100055
Page 1 of 1

DATE 08/15/2019
CUSTOMER NAME UIL Holding Corporation
CUSTOMER PO # 4500458193
BILLING ADDRESS PO BOX 1402, NEW HAVEN , Connecticut
United States , 06505-0902

SALES ORDER # UI100018
CONTACT NAME Shawn Crosbie - (860) 904-8551
SITE LOCATION English Station
510 Grand Avenue, NEW HAVEN, CT 06512

☐ Job Complete
☐ Prevailing Wage
☑ Job Incomplete
☐ Per Diem, If Yes How Many?____

LABOR

NAME	TITLE	FLEET ID	JOB START	SITE START	SITE END	JOB END	NOTES
ROB RADCLIFFE	Equipment Operator	0181	0800	0830	0900		Lunch Taken: Yes No
							If Yes, Time:

EQUIPMENT	QTY	UOM	ID#
~~Box Truck~~ TRACTOR		HR	TR-0181
BOX TRAILER			TL-0068

MATERIALS	QTY	UOM

JOB DESCRIPTION / COMMENTS

TASK 18: STATION B
Pick up 4 Cylinders and transport to Cycle Chem for disposal

MANIFEST #	WASTE DESCRIPTION	QTY	UOM	FACILITY
019502003	PROPANE CYL	4	80 LB	CYCLECHEM

SUBCONTRACTOR	DESCRIPTION

SUPERVISOR SIGNATURE X Rob Radcliffe
SUPERVISOR PRINT NAME ROB RADCLIFFE

CUSTOMER SIGNATURE X [signature]
DATE: 8/15/19
CUSTOMER PRINT NAME Matt Blunsler, As an agent of UI

Signature is client's acceptance of labor, equipment, inventory, and general terms and conditions as stated on the reverse side.

OPS-FM-115B-IDS

Revised: May 2018

THIS MEMORANDUM is an acknowledgement that a bill of lading has been issued and is not the Original Bill of Lading, not a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

Shipper's No. ______

Carrier ~~ACV Enviro~~ All State Power Vac SCAC ______ Carrier's No. ______

RECEIVED, subject to individually determined rates or contracts that have been agreed upon in writing between the carrier and shipper, if applicable, otherwise to the rates, classifications and rules that have been established by the carrier and are available to the shipper, on request; and all applicable state and federal regulations;

at 118 Burr Court, Bridgeport, CT date 8-8-19 from UI 510A Grand Ave New Haven CT

the Property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to delivery at said destination, if on its route, or otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said Property over all or any portion of said route to destination and as to each party at any time interested in all or any of said Property that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on the back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

Consigned to
JJ Brennan

Destination Shelton **State** CT **County** Fairfield **Zip** ______ **Delivery Address** 70 Platt Rd

Route
Best

Delivering Carrier ~~ACV Enviro~~ All State Power Vac **Vehicle Number** DT-0123

Number of Packages	Description of Articles	Weight (sub. to correction)	Class or Rate
XX1	Asphalt	10	T

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

______
(Signature of Consignor)

FREIGHT CHARGES:
Prepaid ☐
Collect ☐

COD AMT:
$

TOTAL CHARGES:
$ ______

Collect On Delivery	and remit to	COD FEE:	
$		$	Prepaid ☐ Collect ☐

NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding $ ______ per ______

NOTE: Liability Limitation for loss or damage in this shipment may be applicable. See 49 U.S.C. 14706(c)(1)(A) and (B).

Shipper: The United Illuminating Company Carrier: All State Power Vac

Per: [signature] As an agent of UI Date: 8/8/19 Per: [signature] Date: 8-8-19

1 BLS 10 (Rev. 1/07)

3

THIS MEMORANDUM is an acknowledgement that a bill of lading has been issued and is not the Original Bill of Lading, not a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

Shipper's No. ____________

Carrier ~~ACV~~ All State Power Vac   SCAC ____________   Carrier's No. ____________

RECEIVED, subject to individually determined rates or contracts that have been agreed upon in writing between the carrier and shipper, if applicable, otherwise to the rates, classifications and rules that have been established by the carrier and are available to the shipper, on request; and all applicable state and federal regulations;

at 118 Burr ct, Bridgeport, CT 06605   date 8-1-19   from 510 A Grand Av, New Haven, CT

the Property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to delivery at said destination, if on its route, or otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said Property over all or any portion of said route to destination and as to each party at any time interested in all or any of said Property that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on the back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

Consigned to
Liberty Recycling

Destination Bristol   **State** CT   **County** Hartford   **Zip** 06010   **Delivery Address** 681 Broad st, ~~Brist~~

Route
Best

Delivering Carrier ~~ACV~~ All State Power Vac   **Vehicle Number** RT-0101

Number of Packages	Description of Articles	Weight (sub. to correction)	Class or Rate
xx7	Scrap Wire	2,000	P

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

FREIGHT CHARGES:
Prepaid ☐
Collect ☐

COD AMT:
$

TOTAL CHARGES:
$

Collect On Delivery $ **and remit to**   **COD FEE:** $ Prepaid ☐ Collect ☐

NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding $ ____ per ____

NOTE: Liability Limitation for loss or damage in this shipment may be applicable. See 49 U.S.C. 14706(c)(1)(A) and (B)

Shipper: Matt Blumstein (TRC) As an agent of UI   Carrier: Matt

Per: ____________   Date: 8/1/19   Per: ~~ACV~~ All State Power Vac   Date: 8-1-19

1 BLS 10 (Rev. 1/07)

3

Please print or type.
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
CTW000517375	1	203-915-2573	#001015915RED

5. Generator's Name and Mailing Address
Shawn Crosbie
United Illuminating Company
180 Marsh Hill Road AD-1A
Orange, CT 06477
Generator's Phone: 203-926-4595

Generator's Site Address (if different than mailing address)
United Illuminating Company
510A Grand Avenue Parcel A, Station B
New Haven, CT 06511

6. Transporter 1 Company Name
All Safe Power Vac #53
U.S. EPA ID Number
NJD 003812047

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Minerva Enterprises, LLC
9000 Minerva Road
Waynesburg, OH 44688
Facility's Phone: 330-866-3435
U.S. EPA ID Number

9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1. NA2212, Asbestos, 9, III, (PCB Excluded Waste w/Asbestos)	1	~~DT~~ CM	20000	K
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information Document D20003 Sales Order 2929 Job 19-103; Weight is estimated

1)Profile#15060619E ASBESTOS, EXCLUDED WASTE PCB >1<50 PPM DOT ERG#171
TRUCK #AU 979 R RO 170023
Dumpster #30134

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Matt Blumstein (UI) ~~[illegible]~~ Signature: [signature] Month 7 Day 31 Year 19

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: [illegible] Brau Signature: [signature] Month 7 Day 31 Year 19
Transporter 2 Printed/Typed Name Signature Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator) Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name Signature Month Day Year

GENERATOR · INT'L · TRANSPORTER · DESIGNATED FACILITY

GENERATOR'S/SHIPPER'S INITIAL COPY

Please print or type
(Form designed for use on elite (12-pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: CTW00051737S
2. Page 1 of 1
3. Emergency Response Phone: 203-915-2573
4. Waste Tracking Number: #001015914RED

5. Generator's Name and Mailing Address
Shawn Crosbie
United Illuminating Company
180 Marsh Hill Road AD-1A
Orange, CT 06477
Generator's Phone: 203-926-4595

Generator's Site Address (if different than mailing address)
United Illuminating Company
510A Grand Avenue Parcel A, Station B
New Haven, CT 06511

#83

6. Transporter 1 Company Name: All State Power Vac
U.S. EPA ID Number: NJD 00321 2067

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Minerva Enterprises, LLC
9000 Minerva Road
Waynesburg, OH 44688
Facility's Phone: 330-866-3435
U.S. EPA ID Number

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
GENERATOR	1. NA2212, Asbestos, 9, III, (PCB Excluded Waste w/Asbestos)	1	DT Cm	20000	K
	2.				
	3.				
	4.				

13. Special Handling Instructions and Additional Information
Document D20003 Sales Order 2929 Job 19-103; Weight is estimated

1)Profile#15060619E ASBESTOS, EXCLUDED WASTE PCB >1<50 PPM DOT ERG#171
R01 Roll Off Autmn
Dumpster # 2077

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Matt Blunk, Mr. Asa agent of UI
Signature: [signature]
Month 7 Day 30 Year 19

INT'L
15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER
16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Tremain Bravo
Signature: [signature]
Month 7 Day 30 Year 19

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY
17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name
Signature
Month Day Year

Please print or type
(Form designed for use on elite (12-pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number CTW000517376	2. Page 1 of 1	3. Emergency Response Phone 203-915-2573	4. Waste Tracking Number #001015913RED

5. Generator's Name and Mailing Address Shawn Crosbie
United Illuminating Company
180 Marsh Hill Road AD-1A
Orange, CT 06477
Generator's Phone: 203-926-4595

Generator's Site Address (if different than mailing address)
United Illuminating Company
510A Grand Avenue Parcel A, Station B
New Haven, CT 06511

6. Transporter 1 Company Name [illegible] — U.S. EPA ID Number [illegible]

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number
Minerva Enterprises, LLC
9000 Minerva Road
Waynesburg, OH 44688
Facility's Phone: 330-866-3435

9. Waste Shipping Name and Description	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.
1. NA2212, Asbestos, 9, III, (PCB Excluded Waste w/Asbestos)	1	DT	20000	K
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information Document D20003 Sales Order 2929 Job 19-103; Weight is estimated

1)Profile#15060619E ASBESTOS, EXCLUDED WASTE PCB >1<50 PPM DOT ERG#171

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Matt Black, [illegible] on behalf of UI — Signature: [signature] — Month 7 Day 30 Year 19

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name [illegible] — Signature [signature] — Month 7 Day [illegible] Year [illegible]
Transporter 2 Printed/Typed Name — Signature — Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name — Signature — Month Day Year

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: CTW000517375
2. Page 1 of: 1
3. Emergency Response Phone: 203-915-2573
4. Waste Tracking Number: #00101591 2RED

5. Generator's Name and Mailing Address: Shawn Crosbie
United Illuminating Company
180 Marsh Hill Road AD-1A
Orange, CT 06477
Generator's Phone: 203-926-4506

Generator's Site Address (if different than mailing address)
United Illuminating Company
510A Grand Avenue Parcel A, Station B
New Haven, CT 06511

6. Transporter 1 Company Name: ALL STATE POWER VAC
U.S. EPA ID Number: NJD003812047

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Minerva Enterprises, LLC
9000 Minerva Road
Waynesburg, OH 44688
Facility's Phone: 330-866-3435
U.S. EPA ID Number:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. NA2212, Asbestos, 9, III, (PCB Excluded Waste w/Asbestos)	1	~~DT~~ CM	20000	K	
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information
Document D20003 Sales Order 2929 Job 19-103; Weight is estimated
1)Profile#15080619E ASBESTOS, EXCLUDED WASTE PCB >1<50 PPM DOT ERG#171
AU 979R (PO 170082)

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Matt Blusko (TPC) As an agent of UI
Signature: [signature]
Month 7 Day 30 Year 19

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Tramon Brew
Signature: [signature]
Month 7 Day 30 Year 19

Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name
Signature
Month Day Year

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

Please print or type
(Form designed for use on elite (12-pitch) typewriter)

Container # 3096 20yd Roll off

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
CTW00517375	1	203-915-3573	#00101591 1RED

5. Generator's Name and Mailing Address
Shawn Crosbie
United Illuminating Company
180 Marsh Hill Road AD-1A
Orange, CT 06477
Generator's Phone: 203-926-4595

Generator's Site Address (if different than mailing address)
United Illuminating Company
510A Grand Avenue Parcel A, Station 8
New Haven, CT 06511

6. Transporter 1 Company Name
U.S. EPA ID Number

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Minerva Enterprises, LLC
8000 Minerva Road
Waynesburg, OH 44688
Facility's Phone: 330-866-3435
U.S. EPA ID Number

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
	1. NA2212, Asbestos, 9, III, (PCB Excluded Waste w/Asbestos)	1	DT	20000	K
	2.				
	3.				
	4.				

13. Special Handling Instructions and Additional Information Document D20003 Sales Order 2929 Job 19-103; Weight is estimated

1)Profile#15080619E ASBESTOS, EXCLUDED WASTE PCB >1 <50 PPM DOT ERG#171

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name — Signature — Month 7 Day 29 Year 19

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name — Signature — Month 7 Day 29 Year 19
Transporter 2 Printed/Typed Name — Signature — Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator) Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name — Signature — Month Day Year

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

Container # . 3001

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
CTW000517375	1	203-915-2573	#001015910RED

GENERATOR

5. Generator's Name and Mailing Address: Shawn Crosbie
United Illuminating Company
180 Marsh Hill Road AD-1A
Orange, CT 06477
Generator's Phone: 203-926-4595

Generator's Site Address (if different than mailing address):
United Illuminating Company
510A Grand Avenue Parcel A, Station B
New Haven, CT 06511

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number
Minerva Enterprises, LLC
9000 Minerva Road
Waynesburg, OH 44688
Facility's Phone: 330-866-3435

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	NA2212, Asbestos, 9, III, (PCB Excluded Waste w/Asbestos)	1	DF	20000	K
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information: Document D20003 Sales Order 2929 Job 19-103; Weight is estimated

1)Profile#15060619E ASBESTOS, EXCLUDED WASTE PCB >1<50 PPM DOT ERG#171

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Matt Bl[illegible] (as) Agent of UI — Signature: [signature] — Month 7 Day 29 Year 19

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name — Signature — Month Day Year
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name — Signature — Month Day Year

THIS MEMORANDUM is an acknowledgement that a bill of lading has been issued and is not the Original Bill of Lading, not a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

Shipper's No. ____

Carrier ACV Enviro SCAC ____ Carrier's No. ____

RECEIVED, subject to individually determined rates or contracts that have been agreed upon in writing between the carrier and shipper, if applicable, otherwise to the rates, classifications and rules that have been established by the carrier and are available to the shipper, on request; and all applicable state and federal regulations;

at 118 Burr St, Bridgeport, CT date 7-22-19 from UI. 510A Grand Av, New Haven,

the Property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to delivery at said destination, if on its route, or otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said Property over all or any portion of said route to destination and as to each party at any time interested in all or any of said Property that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on the back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

Consigned to
Murphy Road Recycling

Destination New Haven **State** CT **County** New Haven **Zip** ____ **Delivery Address** 19 Wheeler St.

Route
Best

Delivering Carrier ACV Enviro **Vehicle Number** RO-170082

Number of Packages	Description of Articles	Weight (sub. to correction)	Class or Rate
XX1	Construction Debris - Boat, misc. From Station B	CY 10	T

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

FREIGHT CHARGES:
Prepaid ☐
Collect ☐

COD AMT:
$

TOTAL CHARGES:
$

Collect On Delivery $ | **and remit to** | **COD FEE:** $ | Prepaid ☐ Collect ☐

NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding $ ____ per ____

NOTE: Liability Limitation for loss or damage in this shipment may be applicable. See 49 U.S.C. 14706(c)(1)(A) and (B).

Shipper: The United Illuminating Company Carrier: All State Power Vac

Per: [signature] Date: 7/22/19 Per: [signature] Date: 7-22-19

1 BLS 10 (Rev. 1/07)

3

CONTAINS HAZARDOUS MATERIALS

STRAIGHT BILL OF LADING – ORIGINAL – NOT NEGOTIABLE

1165

Shipper's No. ____

Carrier Chicos Energy Services SCAC ____ Carrier's No. ____

RECEIVED, subject to individually determined rates or contracts that have been agreed upon in writing between the carrier and shipper, if applicable, otherwise to the rates, classifications and rules that have been established by the carrier and are available to the shipper, on request; and all applicable state and federal regulations;

at 510A GRAND AVENUE, NEW HAVEN, CT date ____ from UNITED ILLUMINATING

the Property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to delivery at said destination, if on its route, or otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said Property over all or any portion of said route to destination and as to each party at any time interested in all or any of said Property that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on the back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

TO:
Consignee HUDSON TECHNOLOGIES GROUP
Street ONE BLUE HILLPLAZA
Destination PEARL RIVER, NY Zip 10965

FROM:
Shipper UNITED ILLUMINATING
Street 510A GRAND AVENUE
Origin NEW HAVEN, CT Zip 06511

Route MATERIAL SHIPPED THRU
JOHNSTONE SUPPLY, 21 SHADY STREET, MILFORD, CT 06460-3033

Delivering Carrier ____ Vehicle Number ____ U.S. DOT Hazmat Reg. Number ____

Number and Type of Packages	HM	I.D. Number	Description of Articles	Hazard Class	Pkg. Grp.	Total Quantity (mass, volume, or activity)	Weight (subject to correction)	Class or Rate
001	X	UN 1018	CHLORODIFLUOROMETHANE	2.2	N/A	4	P	

Remit COD to:
Address:
City: State: Zip:

NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding $ ____ Per ____

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

COD AMT: $ ——

COD FEE: Prepaid ☐ Collect ☐ $ ——

TOTAL CHARGES: $

FREIGHT CHARGES: ☐ Prepaid ☐ Collect

NOTE: Liability Limitation for loss or damage in this shipment may be applicable. See 49 U.S.C. 14706(c)(1)(A) and (B).

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. Per

PLACARDS REQUIRED NO - UNDER 1,001 lbs

PLACARDS SUPPLIED ☐ BY SHIPPER ☐ BY CARRIER

DRIVER'S SIGNATURE: NOT SUPPLIED

SHIPPER: Shawn Crosbie
PER: [signature] DATE: 7/11/19

CARRIER: [signature]
PER: ____ DATE: ____

EMERGENCY RESPONSE TELEPHONE NUMBER: 1-860-904-8551

NAME OR CONTRACT NUMBER OR OTHER UNIQUE IDENTIFIER: SHAWN CROSBIE

CONTAINS HAZARDOUS MATERIALS

[redacted]

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number CTA000617374	2. Page 1 of 1	3. Emergency Response Phone 203-946-7573	4. Waste Tracking Number [illegible]

5. Generator's Name and Mailing Address Shawn Crosbie

United Illuminating Company
180 Marsh Hill Road AD-1A
Orange, CT 06477

Generator's Phone: 203-926-4505

Generator's Site Address (if different than mailing address)

United Illuminating Company
510A Grand Avenue Parcel A, Station B
New Haven, CT 06511

6. Transporter 1 Company Name [illegible] Environmental Services — U.S. EPA ID Number [illegible]

7. Transporter 2 Company Name [illegible] Technologies, LLC — U.S. EPA ID Number [illegible]

8. Designated Facility Name and Site Address — U.S. EPA ID Number

Minerva Enterprises, LLC
8000 Minerva Road
Waynesburg, OH 44688

Facility's Phone: 330.866.3435

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. NA2212, Asbestos, 9, III, RQ (PCB Excluded Waste w/Asbestos)	1	CM	13,[illegible]	P	
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information Document 019055 Sales Order 2862 Job # 19-103; Weight is estimated

1)Profile#[illegible] ASBESTOS, EXCLUDED WASTE PCB >1<50 PPM DOT ERG#171

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name [illegible] — Signature [illegible] — Month 7 Day [illegible] Year [illegible]

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name [illegible] — Signature [illegible] — Month 7 Day [illegible] Year [illegible]

Transporter 2 Printed/Typed Name — Signature — Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month Day Year

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

[redacted] GENERATOR'S/SHIPPER'S INITIAL COPY [redacted]

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	CTW000517375	1	203-915-2573	#001011005RED

5. Generator's Name and Mailing Address	Generator's Site Address (if different than mailing address)
Shawn Crosbie United Illuminating Company 180 Marsh Hill Road AD-1A Orange, CT 06477 Generator's Phone: 203-926-4595	United Illuminating Company 510A ~~[illegible]~~ Grand Avenue Parcel A, Station B New Haven, CT 06511

	U.S. EPA ID Number
6. Transporter 1 Company Name TRI-S Environmental Services	CTD016424210
7. Transporter 2 Company Name	U.S. EPA ID Number
8. Designated Facility Name and Site Address Minerva Enterprises, LLC 9000 Minerva Road Waynesburg, OH 44688 Facility's Phone: 330-866-3435	U.S. EPA ID Number

9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1. NA2212, Waste Asbestos, 9 , III, RQ (PCB Excluded Waste >1 <50 ppm PCB)	1	CM	20,000	P
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information

Document D19053 Sales Order 2862 Job # 19-103; Weight is estimated

1)Profile#15060619E ASBESTOS, EXCLUDED WASTE PCB >1<50 PPM DOT ERG#171

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name	Signature	Month	Day	Year
Shawn C. Crosbie		6	21	19

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

	Signature	Month	Day	Year
Transporter 1 Printed/Typed Name: Garry Rodriguez		6	21	19
Transporter 2 Printed/Typed Name				

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name Signature Month Day Year

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number CTW000517375	2. Page 1 of 1	3. Emergency Response Phone 203-815-2573	4. Waste Tracking Number 0001011005RED

5. Generator's Name and Mailing Address Shawn Crosbie

United Illuminating Company
180 Marsh Hill Road AD-1A
Orange, CT 06477

Generator's Phone: 203-926-4505

Generator's Site Address (if different than mailing address)

United Illuminating Company
510A 510 Grand Avenue Parcel A, Station B
New Haven, CT 06511

6. Transporter 1 Company Name: TRI-S Environmental Services — U.S. EPA ID Number: CTD016424210

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

Minerva Enterprises, LLC
8000 Minerva Road
Waynesburg, OH 44688

Facility's Phone: 330-866-3435

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	NA2212, Waste Asbestos, 9, III, RQ (PCB Excluded Waste >1 <50 ppm PCB)	1	CM	20,000	P
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information Document D19053 Sales Order 2862 Job # 19-103; Weight is estimated

1)Profile#15060619E ASBESTOS, EXCLUDED WASTE PCB >1<50 PPM DOT ERG#171

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Shawn C. Crosbie — Signature — Month 6 Day 21 Year 19

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: [illegible] — Signature — Month 6 Day 21 Year 19

Transporter 2 Printed/Typed Name — Signature — Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month Day Year

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: CTW000517375
2. Page 1 of: 1
3. Emergency Response Phone: 203-915-2573
4. Waste Tracking Number: #00101 1004RED

5. Generator's Name and Mailing Address: Shawn Crosbie
United Illuminating Company
180 Marsh Hill Road AD-1A
Orange, CT 06477
Generator's Phone: 203-926-4505

Generator's Site Address (if different than mailing address):
United Illuminating Company
510A 510 Grand Avenue Parcel A, Station B
New Haven, CT 06511

6. Transporter 1 Company Name: TRI-S Environmental Services
U.S. EPA ID Number: CTD016424210

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address:
Minerva Enterprises, LLC
9000 Minerva Road
Waynesburg, OH 44688
Facility's Phone: 330-866-3435
U.S. EPA ID Number:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. NA2212, Waste Asbestos, 9 , III, RQ (PCB Excluded Waste >1 <50 ppm PCB)	1	CM	20,000	P	
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information: Document D19053 Sales Order 2862 Job # 19-103; Weight is estimated

1)Profile#15060619E ASBESTOS, EXCLUDED WASTE PCB >1<50 PPM DOT ERG#171

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Shawn C. Crosbie
Signature: [signature]
Month: 6 Day: 21 Year: 19

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: ______
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Remney Rodriguez
Signature: [signature]
Month: 6 Day: 21 Year: 19

Transporter 2 Printed/Typed Name: Signature: Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

17b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name Signature Month Day Year

GENERATOR / TRANSPORTER / INT'L / DESIGNATED FACILITY

Straight Bill of Lading

Please type or print

ACV ENVIRO

1. Generator EPA ID # (if applicable)	2. Page 1 of	3. Emergency Response #	4. Document Tracking Number
CTP000023979	1	203 384-2020	ACV 32676

5. Generator Name and Mailing Address

United Illuminating
180 Marsh Hill Road
Orange, CT 06477

Generator Phone: 203 926-4395

Generator's Site Address (if different)

310A Grand Avenue(Station B)
New Haven, CT 06511

ACV Job Number: #

6. Transporter 1 Company Name: Allstate Power Vac., Inc.
US EPA ID Number (if applicable): NJD00381 2047

7. Transporter 2 Company Name:
US EPA ID Number (if applicable):

8. Designated Facility Name and Mailing Address

NLR, Inc.
250 Main St
East Windsor, CT 06088

US EPA ID Number (if applicable): CT5000001495

8. Designated Facility Phone: 877 822-4733

9a. HM	9b. Material Description (Proper shipping name required if DOT Hazardous Material)	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit (Wt/Vol)	13. Waste Codes
	1. "Universal Waste" Non PCB Ballasts	001	DM	00262010	P	
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information

9.1 Non PCB Ballasts for Recycling

16. Generator/Offeror's Certification: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded and are in all respects proper condition for transport according to applicable international and national governmental regulations.

Printed/Typed Name	Signature	Month	Day	Year
[illegible]	[illegible]	8	27	19

17. Transporter 1 Acknowledgment of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Rob Rabbitt	Rob Rabbitt	8	27	19

18. Transporter 2 Acknowledgment of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space (to be completed by Designated Facility)

20. Discrepancy Facility: Certification of receipt of the materials covered by this shipping paper except as noted in item 19

Printed/Typed Name	Signature	Month	Day	Year

Generator / Transporter / Facility

Straight Bill of Lading

Please type or print

ACV ENVIRO	1. Generator EPA ID # (if applicable)	2. Page 1 of	3. Emergency Response #	4. Document Tracking Number
	CTP000002579	1	203 384-6020	ACV 032675

5. Generator Name and Mailing Address
United Illuminating
160 Marsh Hill Road
Orange, CT 06477
Generator Phone: 203 926-4595

Generator's Site Address (if different)
510 Grand Avenue
New Haven, CT 06511

ACV Job Number: #

6. Transporter 1 Company Name: Allstate Power Vac, Inc.
US EPA ID Number (if applicable): NJD003812047

7. Transporter 2 Company Name
US EPA ID Number (if applicable)

8. Designated Facility Name and Mailing Address
MLR, Inc.
8 Craftsman Rd
East Windsor, CT 06088
US EPA ID Number (if applicable): CTR000513127

8. Designated Facility Phone: 877 623-4733

9a. HM	9b. Material Description (Proper shipping name required if DOT Hazardous Material)	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit (Wt/Vol)	13. Waste Codes
	1. "Universal Waste" Fluorescent Bulbs	001	DF	00060	P	
	2. UNIVERSAL WASTE FLUORESCENT BULB	002	CF	00060	P	
	3.					
	4.					

14. Special Handling Instructions and Additional Information
Fluorescent Bulbs for Recycling

16. Generator/Offeror's Certification: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded and are in all respects proper condition for transport according to applicable international and national governmental regulations.

Printed/Typed Name	Signature	Month	Day	Year
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Transporter

17. Transporter 1 Acknowledgment of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
ROB RADCLIFFE	[signature]	8	27	19

18. Transporter 2 Acknowledgment of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

Facility

19. Discrepancy Indication Space (to be completed by Designated Facility)

20. Discrepancy Facility: Certification of receipt of the materials covered by this shipping paper except as noted in item 19

Printed/Typed Name	Signature	Month	Day	Year

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: CTW 000 517 375
2. Page 1 of: 1
3. Emergency Response Phone: (860) 465-8265
4. Manifest Tracking Number: 012252068 FLE

5. Generator's Name and Mailing Address: UNITED ILLUMINATING CO, 180 MARSH HILL ROAD, ORANGE, CT 06477
Generator's Phone: (203) 926-4737
Generator's Site Address (if different than mailing address): 510 GRAND AVE, NEW HAVEN, CT 06513

6. Transporter 1 Company Name: EQ NORTHEAST, INC — U.S. EPA ID Number: MAD 084 814 136

7. Transporter 2 Company Name: — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFIL, 49350 N I-94 SERVICE DRIVE, BELLEVILLE, MI 48111 — U.S. EPA ID Number: MID 048 090 633
Facility's Phone: (800) 592-5489

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ, UN3432, Polychlorinated biphenyls, solid, mixture, 9, PGIII, ERG #171	009	DM	1,428	K	CR01	PCB6	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1. G190181WDI / (S) PCB SOLIDS / SEE ATTACHED PCB CONTINUATION SHEET
OUT of Service date 7/24/19

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Matt Blunck (MB) As an agent of UI — Signature: [signature] — Month 8 Day 26 Year 19

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Darrell Bees — Signature: [signature] — Month 8 Day 26 Year 19
Transporter 2 Printed/Typed Name: — Signature: — Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name — Signature — Month Day Year

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

GENERATOR'S INITIAL COPY

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	CTD000517378	1	203-915-2573	#001015931RED

5. Generator's Name and Mailing Address Shawn Crosbie

United Illuminating Company
180 Marsh Hill Road AD-1A
Orange, CT 06477

Generator's Phone: 203-926-4595

Generator's Site Address (if different than mailing address)

United Illuminating Company
510A Grand Avenue Parcel A, Station B
New Haven, CT 06511

6. Transporter 1 Company Name [illegible] Technologies — U.S. EPA ID Number [illegible]

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

Minerva Enterprises, LLC
8000 Minerva Road
Waynesburg, OH 44688

Facility's Phone: 330-866-3435

9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1. NA2212, Asbestos, 9 , III, (PCB Excluded Waste w/Asbestos)	1	DT	20000	K
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information Document D20003 Sales Order 2929 Job 19-103; Weight is estimated

1)Profile#15060619E ASBESTOS, EXCLUDED WASTE PCB >1<50 PPM DOT ERG#171

[illegible]

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Matt Blumstein (?) As an agent of UI — Signature: [signature] — Month 8 Day 26 Year 19

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name [illegible] — Signature [illegible] — Month Day Year
Transporter 2 Printed/Typed Name — Signature — Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name — Signature — Month Day Year

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

Please print or type.
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	CTW000517375	1	203-916-2573	#001015930RED

GENERATOR

5. Generator's Name and Mailing Address Shawn Crosble
United Illuminating Company
180 Marsh Hill Road AD-1A
Orange, CT 06477
Generator's Phone: 203-926-4505

Generator's Site Address (if different than mailing address)
United Illuminating Company
510A Grand Avenue Parcel A, Station B
New Haven, CT 06511

6. Transporter 1 Company Name: Red Technologies — U.S. EPA ID Number: CTD000559608

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number
Minerva Enterprises, LLC
9000 Minerva Road
Waynesburg, OH 44688
Facility's Phone: 330-866-3435

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. NA2212, Asbestos, 9 , III, (PCB Excluded Waste w/Asbestos)	1	DT	20000	K	
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information Document D20003 Sales Order 2929 Job 19-103; Weight is estimated

1)Profile#15060619E ASBESTOS, EXCLUDED WASTE PCB >1<50 PPM DOT ERG#171

[illegible handwriting]

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: [illegible handwriting] UI — Signature: [signature] — Month 8 Day 26 Year 19

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name — Signature — Month Day Year
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name — Signature — Month Day Year

THIS MEMORANDUM is an acknowledgement that a bill of lading has been issued and is not the Original Bill of Lading, not a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

Shipper's No. ______

Carrier: All State Power Vac SCAC ______ Carrier's No. ______

RECEIVED, subject to individually determined rates or contracts that have been agreed upon in writing between the carrier and shipper, if applicable, otherwise to the rates, classifications and rules that have been established by the carrier and are available to the shipper, on request; and all applicable state and federal regulations;

at 118 Burr rt, Bridgeport, CT date ______ from 510 A Grand Av, New Haven, CT

the Property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to delivery at said destination, if on its route, or otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said Property over all or any portion of said route to destination and as to each party at any time interested in all or any of said Property that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on the back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

Consigned to: NH Kelman Recycling

Destination: Cohoes State: NY County: Albany Zip: 12047 Delivery Address: 41 Euclid St

Route: Best Route

Delivering Carrier: All State Power Vac Vehicle Number: Truck: NJ AU548S Trailer: NJ TUW 63P

Number of Packages	Description of Articles	Weight (sub. to correction)	Class or Rate
xx1	Scrap metal with excluded PCB product <50 ppm	35,000 P	

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

______ (Signature of Consignor)

FREIGHT CHARGES:
Prepaid ☐
Collect ☐

COD AMT:
$

TOTAL CHARGES:
$ ______

Collect On Delivery $ | and remit to | COD FEE: $ | Prepaid ☐ Collect ☐

NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding $ ______ per ______

NOTE: Liability Limitation for loss or damage in this shipment may be applicable. See 49 U.S.C. 14706(c)(1)(A) and (B).

Shipper: TRC As an agent of UI Carrier: All State Power

Per: Matthew Bloch Date: 8/26/19 Per: Reed Radcliff Date: 8-26-19

1 BLS 10 (Rev. 1/07)

3

APPENDIX K

Waste Characterization Sample Lab Results

Station B Windows

Composite TCLP Lead Sample

CET Report #9060849

80 Lupes Drive
Stratford, CT 06615

COMPLETE ENVIRONMENTAL TESTING, INC.

Tel: (203) 377-9984
Fax: (203) 377-9952
e-mail: cet1@cetlabs.com

Client: Mr. Joe Palmieri, Jr.
ACV Enviro
118 Burr Court
Bridgeport, CT 06605

Analytical Report

CET# 9060849

Report Date:June 28, 2019
Project: English Station, 510 Grand Ave
Project Number: UI100000

Connecticut Laboratory Certificate: PH 0116
Massachusetts Laboratory Certificate: M-CT903
Rhode Island Laboratory Certificate: 199

New York NELAP Accreditation: 11982
Pennsylvania Certificate: 68-02927

CET # : 9060849
Project: English Station, 510 Grand Ave
Project Number: UI100000

SAMPLE SUMMARY

The sample(s) were received at 31.1°C.
This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
S2	9060849-01	Solid	6/27/2019 14:05	06/27/2019

Analyte: TCLP Lead [EPA 6020A] **Analyst: CED**

Prep: EPA 3005A-1311 **Matrix: Extract**

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
9060849-01	S2	0.29	0.013	mg/L	1	B9F2838	06/28/2019	06/28/2019 13:06	

All questions related to this report should be directed to David Ditta, Timothy Fusco, or Robert Blake at 203-377-9984.

Sincerely,

This technical report was reviewed by Robert Blake

David Ditta
Laboratory Director

Project Manager

Report Comments:

Sample Result Flags:
E- The result is estimated, above the calibration range.
H- The surrogate recovery is above the control limits.
L- The surrogate recovery is below the control limits.
B- The compound was detected in the laboratory blank.
P- The Relative Percent Difference (RPD) of dual column analyses exceeds 40%.
D- The RPD between the sample and the sample duplicate is high. Sample Homogeneity may be a problem.
+- The Surrogate was diluted out.
*C1- The Continuing Calibration did not meet method specifications and was biased low for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased low.
*C2- The Continuing Calibration did not meet method specifications and was biased high for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased high.
*F1- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the low side.
*F2- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the high side.
*I- Analyte exceeds method limits from second source standard in Initial Calibration Verification (ICV). No directional bias.

All results met standard operating procedures unless indicated by a data qualifier next to a sample result, or a narration in the QC report.

For Percent Solids, if any of the following prep methods (3050B, 3540C, 3545A, 3550C, 5035 and 9013A) were used for samples pertaining to this report, the percent solids procedure is within that prep method.

Complete Environmental Testing is only responsible for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt.

ND is None Detected at or above the specified reporting limit
Reporting Limit (RL) is the limit of detection for an analyte after any adjustment made for dilution or percent moisture.
All analyses were performed in house unless a Reference Laboratory is listed.
Samples will be disposed of 30 days after the report date.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 6020A in Water	
Lead	CT

Complete Environmental Testing operates under the following certifications and accreditations:

Code	Description	Number	Expires
CT	Connecticut Public Health	PH0116	09/30/2020

9060849

CET
COMPLETE ENVIRONMENTAL TESTING, INC.

CHAIN OF CUSTODY

Volatile Soils Only:
Date and Time in Freezer
Client: ACV
CET:

1182

80 Lupes Drive
Stratford, CT 06615
Tel: (203) 377-9984
Fax: (203) 377-9952
e-mail: cet1@cetlabs.com
Bottle Request e-mail: bottleorders@cetlabs.com

Matrix: A=Air, S=Soil, W=Water, DW=Drinking Water, C=Cassette, Solid, Wipe, Other (Specify)

Turnaround Time ** (check one)

Sample ID/Sample Depths (include Units for any sample depths provided)	Collection Date/Time	Matrix	Same Day *	Next Day *	Two Day *	Three Day *	Std (5-7 Days)	8260 CT List	8260 Aromatics	8260 Halogens	CT ETPH	8270 CT List	8270 PNAs	PCBs ☐ SOX ☐ ASE	Pesticides	Metals: 8 RCRA	13 Priority Poll	15 CT DEP	Total	SPLP	TCLP Lead	Dissolved	Field Filtered	Lab to Filter	Additional Analysis	TOTAL # OF CONT.	NOTE #
S2	6-27-19/14:05	Solid	√																		x					1	

PRESERVATIVE (Cl–HCl, N–HNO_3, S–H_2SO_4, Na–NaOH, C=Cool, O–Other)

CONTAINER TYPE (P=Plastic, G–Glass, V–Vial, O–Other)

Soil VOCs Only (M=MeOH B=Sodium Bisulfate W=Water F=Empty Vial E=Encore)

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:
Jeffrey Biagioni	6-27-19/14:15	[illegible]
[illegible]	6/27/19 15:57	[illegible]

NOTES: Composite Sample Composition
Steel .49%
Glass .42%
Caulk/glazing .04%
Wood .03%
Paint .01%
HOLD BALANCE OF SAMPLE

Client / Reporting Information

Company Name: ACU Enviro
Address: 118 Burr ct.
City: Bridgeport State: CT Zip: 06605
Report To: Kim Neville E-mail: kneville@acuenviro.com
Phone #: (203) 376-8031 Fax #:

Project Information

Project: English Station PO #:
Location: 510A Grand Av, New Haven CT Project #: CJI 00000
CET Quote #: Collector(s): Jeff B
QA/QC ☐ Std ☐ Site Specific (MS/MSD) * ☐ RCP Pkg * ☐ DQAW *
Data Report ☐ PDF ☐ EDD - Specify Format ______ Other ______
RSR Reporting Limits (check one) ☐ GA ☐ GB ☐ SWP ☐ Other ______
Laboratory Certification Needed (check one) ☐ CT ☐ NY ☐ RI ☐ MA
Temp Upon Receipt 31.1 °C Evidence of Cooling: Y N PAGE ____ OF ____

* Additional charge may apply. ** TAT begins when the samples are received at the Lab and all issues are resolved. TAT for samples received after 3 p.m. will start on the next business day. All samples picked up by courier service will be considered next business day receipt for TAT purposes.

Abandoned Boat

PCB Surface Wipe Samples

Con-Test Report #19F1426

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

June 28, 2019

Carl Stopper
TRC Environmental Corporation - CT
21 Griffin Road North
Windsor, CT 06095

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 263951.000012.000002
Laboratory Work Order Number: 19F1426

Enclosed are results of analyses for samples received by the laboratory on June 26, 2019. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kerry K. McGee

Kerry K. McGee
Project Manager

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TRC Environmental Corporation - CT
21 Griffin Road North
Windsor, CT 06095
ATTN: Carl Stopper

REPORT DATE: 6/28/2019

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 263951.000012.000002

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 19F1426

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
TRC-AOC-12N-WP-01	19F1426-01	Wipe		SW-846 8082A	
TRC-AOC-12N-WP-02	19F1426-02	Wipe		SW-846 8082A	
TRC-AOC-12N-WP-03	19F1426-03	Wipe		SW-846 8082A	
TRC-AOC-12N-WP-04	19F1426-04	Wipe		SW-846 8082A	
TRC-AOC-12N-WP-05	19F1426-05	Wipe		SW-846 8082A	
TRC-AOC-12N-WP-06	19F1426-06	Wipe		SW-846 8082A	
TRC-AOC-12N-WP-07	19F1426-07	Wipe		SW-846 8082A	
TRC-AOC-12N-WP-08	19F1426-08	Wipe		SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Technical Representative

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT   Sample Description: Work Order: 19F1426

Date Received: 6/26/2019

Field Sample #: TRC-AOC-12N-WP-01   Sampled: 6/26/2019 08:00

Sample ID: 19F1426-01

Sample Matrix: Wipe

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 10:37	AYH
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 10:37	AYH
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 10:37	AYH
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 10:37	AYH
Aroclor-1248 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 10:37	AYH
Aroclor-1254 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 10:37	AYH
Aroclor-1260 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 10:37	AYH
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 10:37	AYH
Aroclor-1268 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 10:37	AYH
	0.0		µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 10:37	AYH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	86.8	30-150		6/28/19 10:37
Decachlorobiphenyl [2]	93.7	30-150		6/28/19 10:37
Tetrachloro-m-xylene [1]	85.2	30-150		6/28/19 10:37
Tetrachloro-m-xylene [2]	93.2	30-150		6/28/19 10:37

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 19F1426

Date Received: 6/26/2019

Field Sample #: TRC-AOC-12N-WP-02 Sampled: 6/26/2019 08:05

Sample ID: 19F1426-02

Sample Matrix: Wipe

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 10:50	AYH
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 10:50	AYH
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 10:50	AYH
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 10:50	AYH
Aroclor-1248 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 10:50	AYH
Aroclor-1254 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 10:50	AYH
Aroclor-1260 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 10:50	AYH
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 10:50	AYH
Aroclor-1268 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 10:50	AYH
	0.0		µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 10:50	AYH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	Date/Time Analyzed
Decachlorobiphenyl [1]	90.3	30-150		6/28/19 10:50
Decachlorobiphenyl [2]	96.5	30-150		6/28/19 10:50
Tetrachloro-m-xylene [1]	87.7	30-150		6/28/19 10:50
Tetrachloro-m-xylene [2]	94.1	30-150		6/28/19 10:50

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Project Location: 510 Grand Ave., New Haven, CT   Sample Description: Work Order: 19F1426

Date Received: 6/26/2019

Field Sample #: TRC-AOC-12N-WP-03   Sampled: 6/26/2019 08:10

Sample ID: 19F1426-03

Sample Matrix: Wipe

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 11:02	AYH
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 11:02	AYH
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 11:02	AYH
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 11:02	AYH
Aroclor-1248 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 11:02	AYH
Aroclor-1254 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 11:02	AYH
Aroclor-1260 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 11:02	AYH
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 11:02	AYH
Aroclor-1268 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 11:02	AYH
	0.0		µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 11:02	AYH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	91.1	30-150		6/28/19 11:02
Decachlorobiphenyl [2]	97.8	30-150		6/28/19 11:02
Tetrachloro-m-xylene [1]	88.6	30-150		6/28/19 11:02
Tetrachloro-m-xylene [2]	95.0	30-150		6/28/19 11:02

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 19F1426

Date Received: 6/26/2019

Field Sample #: TRC-AOC-12N-WP-04 Sampled: 6/26/2019 08:15

Sample ID: 19F1426-04

Sample Matrix: Wipe

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 11:15	AYH
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 11:15	AYH
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 11:15	AYH
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 11:15	AYH
Aroclor-1248 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 11:15	AYH
Aroclor-1254 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 11:15	AYH
Aroclor-1260 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 11:15	AYH
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 11:15	AYH
Aroclor-1268 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 11:15	AYH
	0.0		µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 11:15	AYH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	89.0	30-150		6/28/19 11:15
Decachlorobiphenyl [2]	95.4	30-150		6/28/19 11:15
Tetrachloro-m-xylene [1]	84.9	30-150		6/28/19 11:15
Tetrachloro-m-xylene [2]	91.5	30-150		6/28/19 11:15

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Project Location: 510 Grand Ave., New Haven, CT   Sample Description: Work Order: 19F1426

Date Received: 6/26/2019

Field Sample #: TRC-AOC-12N-WP-05   Sampled: 6/26/2019 08:20

Sample ID: 19F1426-05

Sample Matrix: Wipe

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 11:27	AYH
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 11:27	AYH
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 11:27	AYH
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 11:27	AYH
Aroclor-1248 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 11:27	AYH
Aroclor-1254 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 11:27	AYH
Aroclor-1260 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 11:27	AYH
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 11:27	AYH
Aroclor-1268 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 11:27	AYH
	0.0		µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 11:27	AYH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	92.5	30-150		6/28/19 11:27
Decachlorobiphenyl [2]	99.7	30-150		6/28/19 11:27
Tetrachloro-m-xylene [1]	85.5	30-150		6/28/19 11:27
Tetrachloro-m-xylene [2]	94.0	30-150		6/28/19 11:27

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Project Location: 510 Grand Ave., New Haven, CT   Sample Description: Work Order: 19F1426

Date Received: 6/26/2019

Field Sample #: TRC-AOC-12N-WP-06   Sampled: 6/26/2019 08:25

Sample ID: 19F1426-06

Sample Matrix: Wipe

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 11:39	AYH
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 11:39	AYH
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 11:39	AYH
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 11:39	AYH
Aroclor-1248 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 11:39	AYH
Aroclor-1254 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 11:39	AYH
Aroclor-1260 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 11:39	AYH
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 11:39	AYH
Aroclor-1268 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 11:39	AYH
	0.0		µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 11:39	AYH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	Analyzed
Decachlorobiphenyl [1]	94.0	30-150		6/28/19 11:39
Decachlorobiphenyl [2]	101	30-150		6/28/19 11:39
Tetrachloro-m-xylene [1]	90.8	30-150		6/28/19 11:39
Tetrachloro-m-xylene [2]	98.3	30-150		6/28/19 11:39

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Project Location: 510 Grand Ave., New Haven, CT   Sample Description: Work Order: 19F1426

Date Received: 6/26/2019

Field Sample #: TRC-AOC-12N-WP-07   Sampled: 6/26/2019 08:30

Sample ID: 19F1426-07

Sample Matrix: Wipe

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 11:52	AYH
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 11:52	AYH
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 11:52	AYH
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 11:52	AYH
Aroclor-1248 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 11:52	AYH
Aroclor-1254 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 11:52	AYH
Aroclor-1260 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 11:52	AYH
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 11:52	AYH
Aroclor-1268 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 11:52	AYH
	0.0		µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 11:52	AYH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	85.2	30-150		6/28/19 11:52
Decachlorobiphenyl [2]	92.8	30-150		6/28/19 11:52
Tetrachloro-m-xylene [1]	85.2	30-150		6/28/19 11:52
Tetrachloro-m-xylene [2]	92.6	30-150		6/28/19 11:52

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Project Location: 510 Grand Ave., New Haven, CT   Sample Description: Work Order: 19F1426

Date Received: 6/26/2019

Field Sample #: TRC-AOC-12N-WP-08   Sampled: 6/26/2019 08:35

Sample ID: 19F1426-08

Sample Matrix: Wipe

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 12:04	AYH
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 12:04	AYH
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 12:04	AYH
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 12:04	AYH
Aroclor-1248 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 12:04	AYH
Aroclor-1254 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 12:04	AYH
Aroclor-1260 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 12:04	AYH
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 12:04	AYH
Aroclor-1268 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 12:04	AYH
	0.0		µg/Wipe	1		SW-846 8082A	6/27/19	6/28/19 12:04	AYH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	94.1	30-150		6/28/19 12:04
Decachlorobiphenyl [2]	101	30-150		6/28/19 12:04
Tetrachloro-m-xylene [1]	89.6	30-150		6/28/19 12:04
Tetrachloro-m-xylene [2]	96.7	30-150		6/28/19 12:04

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [Wipe]	Final [mL]	Date
19F1426-01 [TRC-AOC-12N-WP-01]	B234278	1.00	10.0	06/27/19
19F1426-02 [TRC-AOC-12N-WP-02]	B234278	1.00	10.0	06/27/19
19F1426-03 [TRC-AOC-12N-WP-03]	B234278	1.00	10.0	06/27/19
19F1426-04 [TRC-AOC-12N-WP-04]	B234278	1.00	10.0	06/27/19
19F1426-05 [TRC-AOC-12N-WP-05]	B234278	1.00	10.0	06/27/19
19F1426-06 [TRC-AOC-12N-WP-06]	B234278	1.00	10.0	06/27/19
19F1426-07 [TRC-AOC-12N-WP-07]	B234278	1.00	10.0	06/27/19
19F1426-08 [TRC-AOC-12N-WP-08]	B234278	1.00	10.0	06/27/19

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B234278 - SW-846 3540C										
Blank (B234278-BLK1)				Prepared: 06/27/19 Analyzed: 06/28/19						
Aroclor-1016	ND	0.20	µg/Wipe							
Aroclor-1016 [2C]	ND	0.20	µg/Wipe							
Aroclor-1221	ND	0.20	µg/Wipe							
Aroclor-1221 [2C]	ND	0.20	µg/Wipe							
Aroclor-1232	ND	0.20	µg/Wipe							
Aroclor-1232 [2C]	ND	0.20	µg/Wipe							
Aroclor-1242	ND	0.20	µg/Wipe							
Aroclor-1242 [2C]	ND	0.20	µg/Wipe							
Aroclor-1248	ND	0.20	µg/Wipe							
Aroclor-1248 [2C]	ND	0.20	µg/Wipe							
Aroclor-1254	ND	0.20	µg/Wipe							
Aroclor-1254 [2C]	ND	0.20	µg/Wipe							
Aroclor-1260	ND	0.20	µg/Wipe							
Aroclor-1260 [2C]	ND	0.20	µg/Wipe							
Aroclor-1262	ND	0.20	µg/Wipe							
Aroclor-1262 [2C]	ND	0.20	µg/Wipe							
Aroclor-1268	ND	0.20	µg/Wipe							
Aroclor-1268 [2C]	ND	0.20	µg/Wipe							
Total PCB Aroclors	0.0		µg/Wipe							
Surrogate: Decachlorobiphenyl	*1.89*		µg/Wipe	2.00		94.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.00*		µg/Wipe	2.00		100	30-150			
Surrogate: Tetrachloro-m-xylene	*1.82*		µg/Wipe	2.00		91.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.94*		µg/Wipe	2.00		96.9	30-150			
LCS (B234278-BS1)				Prepared: 06/27/19 Analyzed: 06/28/19						
Aroclor-1016	0.49	0.20	µg/Wipe	0.500		98.7	40-140			
Aroclor-1016 [2C]	0.50	0.20	µg/Wipe	0.500		101	40-140			
Aroclor-1260	0.45	0.20	µg/Wipe	0.500		89.2	40-140			
Aroclor-1260 [2C]	0.45	0.20	µg/Wipe	0.500		90.7	40-140			
Surrogate: Decachlorobiphenyl	*1.88*		µg/Wipe	2.00		94.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.01*		µg/Wipe	2.00		101	30-150			
Surrogate: Tetrachloro-m-xylene	*1.80*		µg/Wipe	2.00		89.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.96*		µg/Wipe	2.00		98.1	30-150			
LCS Dup (B234278-BSD1)				Prepared: 06/27/19 Analyzed: 06/28/19						
Aroclor-1016	0.45	0.20	µg/Wipe	0.500		89.4	40-140	9.85	30	
Aroclor-1016 [2C]	0.45	0.20	µg/Wipe	0.500		90.6	40-140	10.6	30	
Aroclor-1260	0.40	0.20	µg/Wipe	0.500		80.8	40-140	9.90	30	
Aroclor-1260 [2C]	0.42	0.20	µg/Wipe	0.500		83.1	40-140	8.70	30	
Surrogate: Decachlorobiphenyl	*1.70*		µg/Wipe	2.00		84.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.81*		µg/Wipe	2.00		90.7	30-150			
Surrogate: Tetrachloro-m-xylene	*1.63*		µg/Wipe	2.00		81.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.77*		µg/Wipe	2.00		88.3	30-150			

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IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B234278-BS1

Date(s) Analyzed: 06/28/2019 06/28/2019

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.49	
	2	0.000	0.000	0.000	0.50	2.0
Aroclor-1260	1	0.000	0.000	0.000	0.45	
	2	0.000	0.000	0.000	0.45	0.0

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IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B234278-BSD1

Date(s) Analyzed: 06/28/2019 06/28/2019

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.45	
	2	0.000	0.000	0.000	0.45	0.0
Aroclor-1260	1	0.000	0.000	0.000	0.40	
	2	0.000	0.000	0.000	0.42	4.9

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
No certified Analyses included in this Report	

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2020
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2020
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2020
RI	Rhode Island Department of Health	LAO00112	12/30/2019
NC	North Carolina Div. of Water Quality	652	12/31/2019
NJ	New Jersey DEP	MA007 NELAP	06/30/2020
FL	Florida Department of Health	E871027 NELAP	06/30/2020
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2020
ME	State of Maine	2011028	06/9/2021
VA	Commonwealth of Virginia	460217	12/14/2019
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2020
NC-DW	North Carolina Department of Health	25703	07/31/2019
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2020

con-test ANALYTICAL LABORATORY

khu

Phone: 413-525-2332 19F1426
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com

CHAIN OF CUSTODY RECORD

Doc # 381 Rev 1_03242017

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 1

Company Name: TRC
Address: 21 Griffin Rd N, Windsor, CT
Phone: 860-298-9692
Project Name: English Station Parcel A
Project Location: 510 Grand Ave, New Haven, CT
Project Number: 263951.000012.000002
Project Manager: Carl Stopper
Con-Test Quote Name/Number: B-20180911 English Station
Invoice Recipient: Carl Stopper
Sampled By: Matt Blumstein

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☒ 4-Day ☐

Data Delivery
Format: PDF ☒ EXCEL ☒
Other: Equis EDD
CLP Like Data Pkg Required: ☐
Email To: CStopper@trcsolutions.com
Fax To #:

# of Containers: 1
Preservation Code: O
Container Code: G

ANALYSIS REQUESTED: PCB Soxhlet

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code	PCB Soxhlet
1	TRC-AOC-12N-WP-01	6/26/19	0800			O	U	X
2	TRC-AOC-12N-WP-02	6/26/19	0805			↓	↓	X
3	TRC-AOC-12N-WP-03	6/26/19	0810			↓	↓	X
4	TRC-AOC-12N-WP-04	6/26/19	0815			↓	↓	X
5	TRC-AOC-12N-WP-05	6/26/19	0820			↓	↓	X
6	TRC-AOC-12N-WP-06	6/26/19	0825			↓	↓	X
7	TRC-AOC-12N-WP-07	6/26/19	0830			↓	↓	X
8	TRC-AOC-12N-WP-08	6/26/19	0835			↓	↓	X

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define) Wipe

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) Hexane

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Signature	Date/Time
Relinquished by: (signature) [signature]	6/26/19
Received by: (signature) AB	6-26-19 2:03
Relinquished by: (signature) AB	6-26-19 21:30
Received by: (signature) [signature] 5.8	6/26/19 21:35
Relinquished by: (signature)	
Received by: (signature)	

Detection Limit Requirements
MA:
CT: CT RSRs
Other:

Special Requirements
☐ MA MCP Required
MCP Certification Form Required
☒ CT RCP Required
RCP Certification Form Required
☐ MA State DW Required
PWSID #

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NELAC and AIHA-LAP, LLC Accredited

Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

PCB ONLY
☒ Soxhlet
☐ Non Soxhlet

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples______

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Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client IRC

Received By [illegible] Date 6/26/19 Time 21:35

How were the samples received? In Cooler T No Cooler ___ On Ice T No Ice ___
Direct from Sampling ___ Ambient ___ Melted Ice ___

Were samples within Temperature? 2-6°C T By Gun # 4 Actual Temp - 5.8
By Blank # ___ Actual Temp - ___

Was Custody Seal Intact? N/A Were Samples Tampered with? N/A
Was COC Relinquished ? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T
Are Sample labels filled out and legible? T
Are there Lab to Filters? F Who was notified? ___
Are there Rushes? T Who was notified? Mike R.
Are there Short Holds? F Who was notified? ___
Is there enough Volume? T
Is there Headspace where applicable? N/A MS/MSD? F
Proper Media/Containers Used? T Is splitting samples required? F
Were trip blanks received? F On COC? F
Do all samples have the proper pH? N/A Acid ___ Base ___

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	8
Bisulfate-		Flashpoint		Col./Bacteria		2oz Amb/Clear	
DI-		Other Glass		Other Plastic		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: TRC Environmental Corporation - CT

Project Location: 510 Grand Ave., New Haven, CT

Project Number: 19F1426

Laboratory Sample ID(s):

19F1426-01 thru 19F1426-08

Sample Date(s):

06/26/2019

List RCP Methods Used:

SW-846 8082A

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☑ Yes ☐ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☐ Yes ☑ No
5B	Were these reporting limits met?	☐ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☑ Yes ☐ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☐ Yes ☑ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

Lisa A. Worthington

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.

Authorized Signature: Lisa Worthington **Position:** **Technical Representative**

Printed Name: **Lisa A. Worthington** **Date:** **06/28/19**

Name of Laboratory: **Con-Test Analytical Laboratory**

This certification form is to be used for RCP methods only.

Situation #1 Station B Wastewater Sump

Water and Solid Samples

Con-Test Report #19L0326

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December 13, 2019

Carl Stopper
TRC Environmental Corporation - CT
21 Griffin Road North
Windsor, CT 06095

Project Location: 510 Grand Ave, New Haven, CT
Client Job Number:
Project Number: 263951.000028.000001
Laboratory Work Order Number: 19L0326

Enclosed are results of analyses for samples received by the laboratory on December 10, 2019. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kerry K. McGee
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

TRC Environmental Corporation - CT
21 Griffin Road North
Windsor, CT 06095
ATTN: Carl Stopper

REPORT DATE: 12/13/2019

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 263951.000028.000001

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 19L0326

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave, New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
TRC-AOC-12N-SW-01	19L0326-01	Surface Water		CTDEP ETPH	
				SM21-22 4500 H B	
				SW-846 1010A	
				SW-846 6020B	
				SW-846 7470A	
				SW-846 8082A	
				SW-846 8260C-D	
				SW-846 8270D-E	
				SW-846 9014	
				SW-846 9030A	
TRC-AOC-12N-SED-01	19L0326-02	Sediment		CTDEP ETPH	
				SM 2540G	
				SW-846 1030	
				SW-846 6010D	
				SW-846 7470A	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 8260C-D	
				SW-846 8270D-E	
				SW-846 9014	
				SW-846 9030A	
				SW-846 9045C	
				SW-846 9095B	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 6020, only RCRA 8 metals were requested and reported.

For method 6010, only RCRA 8 metals were requested and reported.

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CTDEP ETPH

Qualifications:

S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

2-Fluorobiphenyl
19L0326-02[TRC-AOC-12N-SED-01]

SM21-22 4500 H B

Qualifications:

H-05

Holding time was exceeded. pH analysis should be performed immediately at time of sampling. Nominal 15 minute holding time was exceeded.

Analyte & Samples(s) Qualified:

pH
19L0326-01[TRC-AOC-12N-SW-01], B248180-DUP1

SW-846 6010D

Qualifications:

L-07

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

Silver
B248059-BS1

SW-846 8082A

Qualifications:

P-02

Sample RPD between primary and confirmatory analysis exceeded 40%. Per EPA method 8000, the lower value was reported due to obvious chromatographic interference on the column with the higher result.

Analyte & Samples(s) Qualified:

Aroclor-1248 [2C]
19L0326-02[TRC-AOC-12N-SED-01]

SW-846 8260C-D

Qualifications:

L-03

Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

1,2,3-Trichlorobenzene
19L0326-01[TRC-AOC-12N-SW-01], 19L0326-02[TRC-AOC-12N-SED-01], B248080-BLK1, B248080-BS1, B248086-BLK1, B248086-BS1

1,2,4-Trichlorobenzene
19L0326-01[TRC-AOC-12N-SW-01], 19L0326-02[TRC-AOC-12N-SED-01], B248080-BLK1, B248080-BS1, B248086-BLK1, B248086-BS1

Naphthalene
19L0326-01[TRC-AOC-12N-SW-01], 19L0326-02[TRC-AOC-12N-SED-01], B248080-BLK1, B248080-BS1, B248086-BLK1, B248086-BS1

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:

1,2,3-Trichlorobenzene
19L0326-01[TRC-AOC-12N-SW-01], B248086-BLK1, B248086-BS1, S043667-CCV1

1,2,4-Trichlorobenzene
19L0326-01[TRC-AOC-12N-SW-01], B248086-BLK1, B248086-BS1, S043667-CCV1

Naphthalene
19L0326-01[TRC-AOC-12N-SW-01], B248086-BLK1, B248086-BS1, S043667-CCV1

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V-20

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

Bromomethane
B248080-BS1, B248086-BS1, S043664-CCV1, S043667-CCV1

Chloromethane
B248080-BS1, B248086-BS1, S043664-CCV1, S043667-CCV1

SW-846 8270D-E

Qualifications:

E

Reported result is estimated. Value reported over verified calibration range.

Analyte & Samples(s) Qualified:

2-Methylnaphthalene
19L0326-02[TRC-AOC-12N-SED-01]

Bis(2-Ethylhexyl)phthalate
19L0326-02[TRC-AOC-12N-SED-01]

Fluoranthene
19L0326-02[TRC-AOC-12N-SED-01]

Phenanthrene
19L0326-02[TRC-AOC-12N-SED-01]

Pyrene
19L0326-02[TRC-AOC-12N-SED-01]

L-04

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol
19L0326-02[TRC-AOC-12N-SED-01], B248048-BLK1, B248048-BS1, B248048-BSD1

L-07

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

Pentachlorophenol
B248048-BSD1

RL-03

Elevated reporting limit based on lowest point in calibration.
Requested reporting limit not met.

Analyte & Samples(s) Qualified:

Hexachlorobenzene
19L0326-01[TRC-AOC-12N-SW-01]

Pentachlorophenol
19L0326-01[TRC-AOC-12N-SW-01]

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol
19L0326-02[TRC-AOC-12N-SED-01], B248048-BLK1, B248048-BS1, B248048-BSD1, S043608-CCV1

Aniline
19L0326-02[TRC-AOC-12N-SED-01], B248048-BLK1, B248048-BS1, B248048-BSD1, S043608-CCV1

Hexachlorocyclopentadiene
S043675-CCV1

Pentachlorophenol
S043675-CCV1

Pyrene
B248072-BLK1, B248072-BS1, B248072-BSD1, S043694-CCV1

Pyridine
19L0326-02[TRC-AOC-12N-SED-01], B248048-BLK1, B248048-BS1, B248048-BSD1, S043608-CCV1

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:

4-Chloroaniline

S043675-CCV1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Tod E. Kopyscinski

Laboratory Director

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT   Sample Description: Work Order: 19L0326

Date Received: 12/10/2019

Field Sample #: TRC-AOC-12N-SW-01   Sampled: 12/10/2019 08:30

Sample ID: 19L0326-01

Sample Matrix: Surface Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
Acrylonitrile	ND	2.0	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
Benzene	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
Bromobenzene	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
Bromoform	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
2-Butanone (MEK)	ND	5.0	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
Carbon Tetrachloride	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
Chlorobenzene	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
Chloroethane	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
Chloroform	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
Chloromethane	ND	1.0	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
2-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
4-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	1.0	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
Dibromomethane	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
1,2-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
1,3-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
1,4-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
1,1-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
1,2-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
1,1-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
cis-1,2-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
1,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
2,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
Ethylbenzene	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
2-Hexanone (MBK)	ND	5.0	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
Isopropylbenzene (Cumene)	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT   Sample Description: Work Order: 19L0326

Date Received: 12/10/2019

Field Sample #: TRC-AOC-12N-SW-01   Sampled: 12/10/2019 08:30

Sample ID: 19L0326-01

Sample Matrix: Surface Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
Naphthalene	ND	2.0	µg/L	1	L-03, V-05	SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
Styrene	ND	1.0	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
Toluene	ND	1.0	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
1,2,3-Trichlorobenzene	ND	1.0	µg/L	1	L-03, V-05	SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
1,2,4-Trichlorobenzene	ND	0.50	µg/L	1	L-03, V-05	SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
1,1,1-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
1,1,2-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
1,2,3-Trichloropropane	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
Vinyl Chloride	ND	1.0	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF
Xylenes (total)	ND	3.0	µg/L	1		SW-846 8260C-D	12/11/19	12/12/19 3:17	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	Date/Time Analyzed
1,2-Dichloroethane-d4	102	70-130		12/12/19 3:17
Toluene-d8	97.6	70-130		12/12/19 3:17
4-Bromofluorobenzene	90.5	70-130		12/12/19 3:17

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 19L0326

Date Received: 12/10/2019

Field Sample #: TRC-AOC-12N-SW-01 Sampled: 12/10/2019 08:30

Sample ID: 19L0326-01

Sample Matrix: Surface Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.30	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 10:01	IMR
Acenaphthylene (SIM)	ND	0.20	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 10:01	IMR
Aniline	ND	5.0	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 10:01	IMR
Benzo(a)anthracene (SIM)	ND	0.050	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 10:01	IMR
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 10:01	IMR
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 10:01	IMR
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 10:01	IMR
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 10:01	IMR
Bis(2-chloroethoxy)methane	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
Bis(2-chloroethyl)ether	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
Bis(2-chloroisopropyl)ether	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
Bis(2-Ethylhexyl)phthalate	ND	2.0	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
4-Bromophenylphenylether	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
Butylbenzylphthalate	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
Carbazole	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
4-Chloroaniline	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
4-Chloro-3-methylphenol	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
2-Chloronaphthalene	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
2-Chlorophenol	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
4-Chlorophenylphenylether	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 10:01	IMR
Dibenz(a,h)anthracene (SIM)	ND	0.10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 10:01	IMR
Dibenzofuran	ND	5.0	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
Di-n-butylphthalate	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
3,3-Dichlorobenzidine	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
2,4-Dichlorophenol	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
Diethylphthalate	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
2,4-Dimethylphenol	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
Dimethylphthalate	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
4,6-Dinitro-2-methylphenol	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
2,4-Dinitrophenol	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
2,4-Dinitrotoluene	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
2,6-Dinitrotoluene	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
Di-n-octylphthalate	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
Fluoranthene (SIM)	ND	0.50	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 10:01	IMR
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 10:01	IMR
Hexachlorobenzene	ND	2.0	µg/L	1	RL-03	SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
Hexachlorobutadiene	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
Hexachlorocyclopentadiene	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
Hexachloroethane	ND	2.0	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 10:01	IMR
Isophorone	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 10:01	IMR

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT   Sample Description: Work Order: 19L0326

Date Received: 12/10/2019

Field Sample #: TRC-AOC-12N-SW-01   Sampled: 12/10/2019 08:30

Sample ID: 19L0326-01

Sample Matrix: Surface Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
3/4-Methylphenol	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 10:01	IMR
2-Nitroaniline	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
3-Nitroaniline	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
4-Nitroaniline	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
Nitrobenzene	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
2-Nitrophenol	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
4-Nitrophenol	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
N-Nitrosodiphenylamine/Diphenylamine	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
N-Nitrosodi-n-propylamine	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
Pentachloronitrobenzene	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
Pentachlorophenol	ND	5.0	µg/L	1	RL-03	SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
Phenanthrene (SIM)	ND	0.050	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 10:01	IMR
Phenol	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 10:01	IMR
Pyridine	ND	5.0	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
1,2,4-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
2,4,5-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB
2,4,6-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D-E	12/10/19	12/12/19 11:45	KLB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	46.6	15-110		12/12/19 11:45
Phenol-d6	31.6	15-110		12/12/19 11:45
Nitrobenzene-d5	74.0	30-130		12/12/19 11:45
Nitrobenzene-d5	69.5	30-130		12/12/19 10:01
2-Fluorobiphenyl	55.8	30-130		12/12/19 10:01
2-Fluorobiphenyl	87.5	30-130		12/12/19 11:45
2,4,6-Tribromophenol	68.5	15-110		12/12/19 11:45
p-Terphenyl-d14	70.7	30-130		12/12/19 11:45
p-Terphenyl-d14	49.7	30-130		12/12/19 10:01

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Project Location: 510 Grand Ave, New Haven, CT   Sample Description: Work Order: 19L0326

Date Received: 12/10/2019

Field Sample #: TRC-AOC-12N-SW-01   Sampled: 12/10/2019 08:30

Sample ID: 19L0326-01

Sample Matrix: Surface Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [2]	ND	0.20	µg/L	1		SW-846 8082A	12/11/19	12/12/19 10:56	TG
Aroclor-1221 [2]	ND	0.20	µg/L	1		SW-846 8082A	12/11/19	12/12/19 10:56	TG
Aroclor-1232 [2]	ND	0.20	µg/L	1		SW-846 8082A	12/11/19	12/12/19 10:56	TG
Aroclor-1242 [2]	ND	0.20	µg/L	1		SW-846 8082A	12/11/19	12/12/19 10:56	TG
Aroclor-1248 [2]	ND	0.20	µg/L	1		SW-846 8082A	12/11/19	12/12/19 10:56	TG
Aroclor-1254 [2]	ND	0.20	µg/L	1		SW-846 8082A	12/11/19	12/12/19 10:56	TG
Aroclor-1260 [2]	ND	0.20	µg/L	1		SW-846 8082A	12/11/19	12/12/19 10:56	TG
Aroclor-1262 [2]	ND	0.20	µg/L	1		SW-846 8082A	12/11/19	12/12/19 10:56	TG
Aroclor-1268 [2]	ND	0.20	µg/L	1		SW-846 8082A	12/11/19	12/12/19 10:56	TG
Total PCB Aroclors [1]	0.0		µg/L	1		SW-846 8082A	12/11/19	12/12/19 10:56	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	Analyzed
Decachlorobiphenyl [1]	66.3	30-150		12/12/19 10:56
Decachlorobiphenyl [2]	68.4	30-150		12/12/19 10:56
Tetrachloro-m-xylene [1]	63.2	30-150		12/12/19 10:56
Tetrachloro-m-xylene [2]	68.4	30-150		12/12/19 10:56

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Project Location: 510 Grand Ave, New Haven, CT   Sample Description: Work Order: 19L0326

Date Received: 12/10/2019

Field Sample #: TRC-AOC-12N-SW-01   Sampled: 12/10/2019 08:30

Sample ID: 19L0326-01

Sample Matrix: Surface Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	0.35	0.15	mg/L	1		CTDEP ETPH	12/11/19	12/12/19 13:20	RMW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorobiphenyl	57.0	50-150		12/12/19 13:20

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Project Location: 510 Grand Ave, New Haven, CT   Sample Description: Work Order: 19L0326

Date Received: 12/10/2019

Field Sample #: TRC-AOC-12N-SW-01   Sampled: 12/10/2019 08:30

Sample ID: 19L0326-01

Sample Matrix: Surface Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	0.80	µg/L	1		SW-846 6020B	12/11/19	12/12/19 12:09	QNW
Barium	ND	10	µg/L	1		SW-846 6020B	12/11/19	12/12/19 12:09	QNW
Cadmium	ND	0.20	µg/L	1		SW-846 6020B	12/11/19	12/12/19 12:09	QNW
Chromium	ND	1.0	µg/L	1		SW-846 6020B	12/11/19	12/12/19 12:09	QNW
Lead	3.0	0.50	µg/L	1		SW-846 6020B	12/11/19	12/12/19 12:09	QNW
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	12/11/19	12/11/19 12:22	CJV
Selenium	ND	5.0	µg/L	1		SW-846 6020B	12/11/19	12/12/19 12:09	QNW
Silver	ND	0.20	µg/L	1		SW-846 6020B	12/11/19	12/12/19 12:09	QNW

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Project Location: 510 Grand Ave, New Haven, CT　　Sample Description:　　Work Order: 19L0326

Date Received: 12/10/2019

Field Sample #: TRC-AOC-12N-SW-01　　Sampled: 12/10/2019 08:30

Sample ID: 19L0326-01

Sample Matrix: Surface Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Flashpoint	> 212 °F		°F	1		SW-846 1010A	12/12/19	12/12/19 18:00	DJM
pH @19.3°C	6.9		pH Units	1	H-05	SM21-22 4500 H B	12/12/19	12/12/19 12:58	AIA
Reactive Cyanide	ND	3.9	mg/L	1		SW-846 9014	12/12/19	12/13/19 12:50	DJM
Reactive Sulfide	ND	19	mg/L	1		SW-846 9030A	12/12/19	12/13/19 12:35	DJM

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Project Location: 510 Grand Ave, New Haven, CT   Sample Description: Work Order: 19L0326

Date Received: 12/10/2019

Field Sample #: TRC-AOC-12N-SED-01   Sampled: 12/10/2019 08:35

Sample ID: 19L0326-02

Sample Matrix: Sediment

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	7.7	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
Acrylonitrile	ND	0.77	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
Benzene	ND	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
Bromobenzene	ND	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
Bromodichloromethane	ND	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
Bromoform	ND	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
Bromomethane	ND	0.31	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
2-Butanone (MEK)	ND	3.1	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
n-Butylbenzene	0.27	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
sec-Butylbenzene	0.24	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
tert-Butylbenzene	ND	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
Carbon Disulfide	ND	0.77	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
Carbon Tetrachloride	ND	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
Chlorobenzene	ND	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
Chlorodibromomethane	ND	0.077	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
Chloroethane	ND	0.31	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
Chloroform	ND	0.31	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
Chloromethane	ND	0.31	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
2-Chlorotoluene	ND	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
4-Chlorotoluene	ND	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.77	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
1,2-Dibromoethane (EDB)	ND	0.077	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
Dibromomethane	ND	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
1,2-Dichlorobenzene	ND	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
1,3-Dichlorobenzene	ND	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
1,4-Dichlorobenzene	ND	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
trans-1,4-Dichloro-2-butene	ND	0.31	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.31	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
1,1-Dichloroethane	ND	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
1,2-Dichloroethane	ND	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
1,1-Dichloroethylene	ND	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
cis-1,2-Dichloroethylene	ND	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
trans-1,2-Dichloroethylene	ND	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
1,2-Dichloropropane	ND	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
1,3-Dichloropropane	ND	0.077	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
2,2-Dichloropropane	ND	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
1,1-Dichloropropene	ND	0.31	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
cis-1,3-Dichloropropene	ND	0.077	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
trans-1,3-Dichloropropene	ND	0.077	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
Ethylbenzene	ND	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
Hexachlorobutadiene	ND	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
2-Hexanone (MBK)	ND	1.5	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
Isopropylbenzene (Cumene)	ND	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF

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Project Location: 510 Grand Ave, New Haven, CT   Sample Description: Work Order: 19L0326

Date Received: 12/10/2019

Field Sample #: TRC-AOC-12N-SED-01   Sampled: 12/10/2019 08:35

Sample ID: 19L0326-02

Sample Matrix: Sediment

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
Methylene Chloride	ND	0.77	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
4-Methyl-2-pentanone (MIBK)	ND	1.5	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
Naphthalene	ND	0.31	mg/Kg dry	1	L-03	SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
n-Propylbenzene	0.21	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
Styrene	ND	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
1,1,1,2-Tetrachloroethane	ND	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
1,1,2,2-Tetrachloroethane	ND	0.077	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
Tetrachloroethylene	ND	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
Tetrahydrofuran	ND	1.5	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
Toluene	ND	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
1,2,3-Trichlorobenzene	ND	0.77	mg/Kg dry	1	L-03	SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
1,2,4-Trichlorobenzene	ND	0.15	mg/Kg dry	1	L-03	SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
1,1,1-Trichloroethane	ND	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
1,1,2-Trichloroethane	ND	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
Trichloroethylene	ND	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
Trichlorofluoromethane (Freon 11)	ND	0.31	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
1,2,3-Trichloropropane	ND	0.31	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
1,2,4-Trimethylbenzene	0.94	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
1,3,5-Trimethylbenzene	0.16	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
Vinyl Chloride	ND	0.31	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
m+p Xylene	ND	0.31	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
o-Xylene	ND	0.15	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF
Xylenes (total)	ND	0.46	mg/Kg dry	1		SW-846 8260C-D	12/11/19	12/12/19 6:33	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	Analyzed
1,2-Dichloroethane-d4	103	70-130		12/12/19 6:33
Toluene-d8	99.0	70-130		12/12/19 6:33
4-Bromofluorobenzene	96.9	70-130		12/12/19 6:33

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Project Location: 510 Grand Ave, New Haven, CT   Sample Description: Work Order: 19L0326

Date Received: 12/10/2019

Field Sample #: TRC-AOC-12N-SED-01   Sampled: 12/10/2019 08:35

Sample ID: 19L0326-02

Sample Matrix: Sediment

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	2.5	0.45	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Acenaphthylene	0.54	0.45	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Aniline	ND	0.90	mg/Kg dry	1	V-05	SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Anthracene	2.1	0.45	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Benzo(a)anthracene	5.1	0.45	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Benzo(a)pyrene	5.5	0.45	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Benzo(b)fluoranthene	7.5	0.45	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Benzo(g,h,i)perylene	5.0	0.45	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Benzo(k)fluoranthene	2.9	0.45	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Bis(2-chloroethoxy)methane	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Bis(2-chloroethyl)ether	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Bis(2-chloroisopropyl)ether	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Bis(2-Ethylhexyl)phthalate	20	0.90	mg/Kg dry	1	E	SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Bis(2-Ethylhexyl)phthalate	19	4.5	mg/Kg dry	5		SW-846 8270D-E	12/10/19	12/11/19 14:18	BGL
4-Bromophenylphenylether	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Butylbenzylphthalate	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Carbazole	1.3	0.45	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
4-Chloroaniline	ND	1.7	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
4-Chloro-3-methylphenol	ND	1.7	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
2-Chloronaphthalene	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
2-Chlorophenol	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
4-Chlorophenylphenylether	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Chrysene	6.3	0.45	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Dibenz(a,h)anthracene	1.2	0.45	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Dibenzofuran	1.2	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Di-n-butylphthalate	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
3,3-Dichlorobenzidine	ND	0.45	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
2,4-Dichlorophenol	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Diethylphthalate	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
2,4-Dimethylphenol	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Dimethylphthalate	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
4,6-Dinitro-2-methylphenol	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
2,4-Dinitrophenol	ND	1.7	mg/Kg dry	1	L-04, V-05	SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
2,4-Dinitrotoluene	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
2,6-Dinitrotoluene	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Di-n-octylphthalate	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Fluoranthene	14	0.45	mg/Kg dry	1	E	SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Fluoranthene	13	2.2	mg/Kg dry	5		SW-846 8270D-E	12/10/19	12/11/19 14:18	BGL
Fluorene	4.0	0.45	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Hexachlorobenzene	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Hexachlorobutadiene	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Hexachlorocyclopentadiene	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Hexachloroethane	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Indeno(1,2,3-cd)pyrene	5.6	0.45	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT   Sample Description: Work Order: 19L0326

Date Received: 12/10/2019

Field Sample #: TRC-AOC-12N-SED-01   Sampled: 12/10/2019 08:35

Sample ID: 19L0326-02

Sample Matrix: Sediment

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Isophorone	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
2-Methylnaphthalene	25	0.45	mg/Kg dry	1	E	SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
2-Methylnaphthalene	23	2.2	mg/Kg dry	5		SW-846 8270D-E	12/10/19	12/11/19 14:18	BGL
2-Methylphenol	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
3/4-Methylphenol	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Naphthalene	4.5	0.45	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
2-Nitroaniline	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
3-Nitroaniline	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
4-Nitroaniline	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Nitrobenzene	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
2-Nitrophenol	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
4-Nitrophenol	ND	1.7	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
N-Nitrosodi-n-propylamine	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Pentachloronitrobenzene	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Pentachlorophenol	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Phenanthrene	14	0.45	mg/Kg dry	1	E	SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Phenanthrene	14	2.2	mg/Kg dry	5		SW-846 8270D-E	12/10/19	12/11/19 14:18	BGL
Phenol	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Pyrene	14	0.45	mg/Kg dry	1	E	SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
Pyrene	12	2.2	mg/Kg dry	5		SW-846 8270D-E	12/10/19	12/11/19 14:18	BGL
Pyridine	ND	0.90	mg/Kg dry	1	V-05	SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
1,2,4-Trichlorobenzene	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
2,4,5-Trichlorophenol	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL
2,4,6-Trichlorophenol	ND	0.90	mg/Kg dry	1		SW-846 8270D-E	12/10/19	12/11/19 13:52	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	Analyzed
2-Fluorophenol	54.5	30-130		12/11/19 13:52
2-Fluorophenol	47.2	30-130		12/11/19 14:18
Phenol-d6	54.1	30-130		12/11/19 13:52
Phenol-d6	47.4	30-130		12/11/19 14:18
Nitrobenzene-d5	51.4	30-130		12/11/19 13:52
Nitrobenzene-d5	43.2	30-130		12/11/19 14:18
2-Fluorobiphenyl	70.7	30-130		12/11/19 13:52
2-Fluorobiphenyl	65.4	30-130		12/11/19 14:18
2,4,6-Tribromophenol	75.3	30-130		12/11/19 13:52
2,4,6-Tribromophenol	59.9	30-130		12/11/19 14:18
p-Terphenyl-d14	78.1	30-130		12/11/19 13:52
p-Terphenyl-d14	58.4	30-130		12/11/19 14:18

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 19L0326

Date Received: 12/10/2019

Field Sample #: TRC-AOC-12N-SED-01 Sampled: 12/10/2019 08:35

Sample ID: 19L0326-02

Sample Matrix: Sediment

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.21	mg/Kg dry	4		SW-846 8082A	12/10/19	12/12/19 14:21	TG
Aroclor-1221 [1]	ND	0.21	mg/Kg dry	4		SW-846 8082A	12/10/19	12/12/19 14:21	TG
Aroclor-1232 [1]	ND	0.21	mg/Kg dry	4		SW-846 8082A	12/10/19	12/12/19 14:21	TG
Aroclor-1242 [1]	ND	0.21	mg/Kg dry	4		SW-846 8082A	12/10/19	12/12/19 14:21	TG
Aroclor-1248 [2]	0.38	0.21	mg/Kg dry	4	P-02	SW-846 8082A	12/10/19	12/12/19 14:21	TG
Aroclor-1254 [1]	0.42	0.21	mg/Kg dry	4		SW-846 8082A	12/10/19	12/12/19 14:21	TG
Aroclor-1260 [1]	0.24	0.21	mg/Kg dry	4		SW-846 8082A	12/10/19	12/12/19 14:21	TG
Aroclor-1262 [1]	ND	0.21	mg/Kg dry	4		SW-846 8082A	12/10/19	12/12/19 14:21	TG
Aroclor-1268 [1]	ND	0.21	mg/Kg dry	4		SW-846 8082A	12/10/19	12/12/19 14:21	TG
Total PCB Aroclors [1]	1.0		mg/Kg dry	4		SW-846 8082A	12/10/19	12/12/19 14:21	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	Date/Time Analyzed
Decachlorobiphenyl [1]	60.2	30-150		12/12/19 14:21
Decachlorobiphenyl [2]	71.2	30-150		12/12/19 14:21
Tetrachloro-m-xylene [1]	57.0	30-150		12/12/19 14:21
Tetrachloro-m-xylene [2]	60.2	30-150		12/12/19 14:21

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Project Location: 510 Grand Ave, New Haven, CT   Sample Description: Work Order: 19L0326

Date Received: 12/10/2019

Field Sample #: TRC-AOC-12N-SED-01   Sampled: 12/10/2019 08:35

Sample ID: 19L0326-02

Sample Matrix: Sediment

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	19000	2700	mg/Kg dry	100		CTDEP ETPH	12/10/19	12/13/19 11:23	RMW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorobiphenyl	*	50-150	S-01	12/13/19 11:23

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Project Location: 510 Grand Ave, New Haven, CT   Sample Description: Work Order: 19L0326

Date Received: 12/10/2019

Field Sample #: TRC-AOC-12N-SED-01   Sampled: 12/10/2019 08:35

Sample ID: 19L0326-02

Sample Matrix: Sediment

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	13	4.5	mg/Kg dry	1		SW-846 6010D	12/11/19	12/12/19 13:28	TBC
Barium	360	4.5	mg/Kg dry	1		SW-846 6010D	12/11/19	12/12/19 13:28	TBC
Cadmium	14	0.45	mg/Kg dry	1		SW-846 6010D	12/11/19	12/12/19 13:28	TBC
Chromium	70	0.89	mg/Kg dry	1		SW-846 6010D	12/11/19	12/12/19 13:28	TBC
Lead	320	1.3	mg/Kg dry	1		SW-846 6010D	12/11/19	12/12/19 13:28	TBC
Mercury	3.9	0.32	mg/Kg dry	5		SW-846 7471B	12/11/19	12/12/19 12:36	CJV
Selenium	ND	8.9	mg/Kg dry	1		SW-846 6010D	12/11/19	12/12/19 13:28	TBC
Silver	36	0.89	mg/Kg dry	1		SW-846 6010D	12/11/19	12/12/19 13:28	TBC

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 19L0326

Date Received: 12/10/2019

Field Sample #: TRC-AOC-12N-SED-01 Sampled: 12/10/2019 08:35

Sample ID: 19L0326-02

Sample Matrix: Sediment

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	37.3		% Wt	1		SM 2540G	12/11/19	12/11/19 15:00	adb
Free Liquid	Present		present/absent	1		SW-846 9095B	12/11/19	12/12/19 10:00	LL
Ignitability	Absent		present/absent	1		SW-846 1030	12/13/19	12/13/19 11:15	DJM
pH @19.8°C	7.0		pH Units	1		SW-846 9045C	12/10/19	12/10/19 22:30	KMV
Reactive Cyanide	ND	4.0	mg/Kg	1		SW-846 9014	12/12/19	12/13/19 12:50	DJM
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	12/12/19	12/13/19 12:35	DJM

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 19L0326

Date Received: 12/10/2019

Field Sample #: TRC-AOC-12N-SED-01 Sampled: 12/10/2019 08:35

Sample ID: 19L0326-02

Sample Matrix: Sediment

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	0.050	mg/L	1		SW-846 6010D	12/12/19	12/13/19 14:15	TBC
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	12/12/19	12/12/19 17:12	AJL
Barium	0.58	0.50	mg/L	1		SW-846 6010D	12/12/19	12/13/19 14:15	TBC
Cadmium	ND	0.010	mg/L	1		SW-846 6010D	12/12/19	12/13/19 14:15	TBC
Chromium	ND	0.050	mg/L	1		SW-846 6010D	12/12/19	12/13/19 14:15	TBC
Lead	ND	0.10	mg/L	1		SW-846 6010D	12/12/19	12/13/19 14:15	TBC
Selenium	ND	0.050	mg/L	1		SW-846 6010D	12/12/19	12/13/19 14:15	TBC
Silver	ND	0.050	mg/L	1		SW-846 6010D	12/12/19	12/13/19 14:15	TBC

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
19L0326-02 [TRC-AOC-12N-SED-01]	B247989	30.3	1.00	12/10/19

Prep Method: SW-846 3510C-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19L0326-01 [TRC-AOC-12N-SW-01]	B248113	980	1.00	12/11/19

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
19L0326-02 [TRC-AOC-12N-SED-01]	B248096	12/11/19

SM21-22 4500 H B

Lab Number [Field ID]	Batch	Initial [mL]	Date
19L0326-01 [TRC-AOC-12N-SW-01]	B248180	50.0	12/12/19

SW-846 1010A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19L0326-01 [TRC-AOC-12N-SW-01]	B248269	50.0	50.0	12/12/19

SW-846 1030

Lab Number [Field ID]	Batch	Initial [g]	Date
19L0326-02 [TRC-AOC-12N-SED-01]	B248328	50.0	12/13/19

Prep Method: SW-846 3050B-SW-846 6010D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
19L0326-02 [TRC-AOC-12N-SED-01]	B248059	1.50	50.0	12/11/19

Prep Method: SW-846 3010A-SW-846 6010D **Leachates were extracted on 12/11/2019 per SW-846 1311 in Batch B248138**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19L0326-02 [TRC-AOC-12N-SED-01]	B248239	50.0	50.0	12/12/19

Prep Method: SW-846 3005A-SW-846 6020B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19L0326-01 [TRC-AOC-12N-SW-01]	B248147	50.0	50.0	12/11/19

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Sample Extraction Data

Prep Method: SW-846 7470A Prep-SW-846 7470A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19L0326-01 [TRC-AOC-12N-SW-01]	B248101	6.00	6.00	12/11/19

Prep Method: SW-846 7470A Prep-SW-846 7470A **Leachates were extracted on 12/11/2019 per SW-846 1311 in Batch B248138**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19L0326-02 [TRC-AOC-12N-SED-01]	B248247	6.00	6.00	12/12/19

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
19L0326-02 [TRC-AOC-12N-SED-01]	B248100	0.620	50.0	12/11/19

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
19L0326-02 [TRC-AOC-12N-SED-01]	B248066	10.0	10.0	12/10/19

Prep Method: SW-846 3510C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19L0326-01 [TRC-AOC-12N-SW-01]	B248111	990	10.0	12/11/19

Prep Method: SW-846 5035-SW-846 8260C-D

Lab Number [Field ID]	Batch	Sample Amount(g)	Methanol Volume(mL)	Methanol Aliquot(mL)	Final Volume(mL)	Date
19L0326-02 [TRC-AOC-12N-SED-01]	B248080	9.45	10.9	1	50	12/11/19

Prep Method: SW-846 5030B-SW-846 8260C-D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19L0326-01 [TRC-AOC-12N-SW-01]	B248086	5	5.00	12/11/19

Prep Method: SW-846 3546-SW-846 8270D-E

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
19L0326-02 [TRC-AOC-12N-SED-01]	B248048	30.5	1.00	12/10/19
19L0326-02RE1 [TRC-AOC-12N-SED-01]	B248048	30.5	1.00	12/10/19

Prep Method: SW-846 3510C-SW-846 8270D-E

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19L0326-01 [TRC-AOC-12N-SW-01]	B248072	1000	1.00	12/10/19

ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3510C-SW-846 8270D-E

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19L0326-01 [TRC-AOC-12N-SW-01]	B248106	1000	1.00	12/10/19

SW-846 9014

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
19L0326-02 [TRC-AOC-12N-SED-01]	B248220	25.2	250	12/12/19

SW-846 9014

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19L0326-01 [TRC-AOC-12N-SW-01]	B248222	25.7	250	12/12/19

SW-846 9030A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
19L0326-02 [TRC-AOC-12N-SED-01]	B248221	25.2	250	12/12/19

SW-846 9030A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19L0326-01 [TRC-AOC-12N-SW-01]	B248224	25.7	250	12/12/19

SW-846 9045C

Lab Number [Field ID]	Batch	Initial [g]	Date
19L0326-02 [TRC-AOC-12N-SED-01]	B248063	20.0	12/10/19

SW-846 9095B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
19L0326-02 [TRC-AOC-12N-SED-01]	B248089	100	100	12/11/19

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B248080 - SW-846 5035										
Blank (B248080-BLK1)				Prepared: 12/11/19 Analyzed: 12/12/19						
Acetone	ND	2.5	mg/Kg wet							
Acrylonitrile	ND	0.25	mg/Kg wet							
Benzene	ND	0.050	mg/Kg wet							
Bromobenzene	ND	0.050	mg/Kg wet							
Bromodichloromethane	ND	0.050	mg/Kg wet							
Bromoform	ND	0.050	mg/Kg wet							
Bromomethane	ND	0.10	mg/Kg wet							
2-Butanone (MEK)	ND	1.0	mg/Kg wet							
n-Butylbenzene	ND	0.050	mg/Kg wet							
sec-Butylbenzene	ND	0.050	mg/Kg wet							
tert-Butylbenzene	ND	0.050	mg/Kg wet							
Carbon Disulfide	ND	0.25	mg/Kg wet							
Carbon Tetrachloride	ND	0.050	mg/Kg wet							
Chlorobenzene	ND	0.050	mg/Kg wet							
Chlorodibromomethane	ND	0.025	mg/Kg wet							
Chloroethane	ND	0.10	mg/Kg wet							
Chloroform	ND	0.10	mg/Kg wet							
Chloromethane	ND	0.10	mg/Kg wet							
2-Chlorotoluene	ND	0.050	mg/Kg wet							
4-Chlorotoluene	ND	0.050	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.25	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.025	mg/Kg wet							
Dibromomethane	ND	0.050	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.050	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.050	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.050	mg/Kg wet							
trans-1,4-Dichloro-2-butene	ND	0.10	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.10	mg/Kg wet							
1,1-Dichloroethane	ND	0.050	mg/Kg wet							
1,2-Dichloroethane	ND	0.050	mg/Kg wet							
1,1-Dichloroethylene	ND	0.050	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.050	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.050	mg/Kg wet							
1,2-Dichloropropane	ND	0.050	mg/Kg wet							
1,3-Dichloropropane	ND	0.025	mg/Kg wet							
2,2-Dichloropropane	ND	0.050	mg/Kg wet							
1,1-Dichloropropene	ND	0.10	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.025	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.025	mg/Kg wet							
Ethylbenzene	ND	0.050	mg/Kg wet							
Hexachlorobutadiene	ND	0.050	mg/Kg wet							
2-Hexanone (MBK)	ND	0.50	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.050	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.050	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.050	mg/Kg wet							
Methylene Chloride	ND	0.25	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.50	mg/Kg wet							
Naphthalene	ND	0.10	mg/Kg wet							L-03
n-Propylbenzene	ND	0.050	mg/Kg wet							
Styrene	ND	0.050	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.050	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.025	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B248080 - SW-846 5035										
Blank (B248080-BLK1)				Prepared: 12/11/19 Analyzed: 12/12/19						
Tetrachloroethylene	ND	0.050	mg/Kg wet							
Tetrahydrofuran	ND	0.50	mg/Kg wet							
Toluene	ND	0.050	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.25	mg/Kg wet							L-03
1,2,4-Trichlorobenzene	ND	0.050	mg/Kg wet							L-03
1,1,1-Trichloroethane	ND	0.050	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.050	mg/Kg wet							
Trichloroethylene	ND	0.050	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.10	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.10	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.050	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.050	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.050	mg/Kg wet							
Vinyl Chloride	ND	0.10	mg/Kg wet							
m+p Xylene	ND	0.10	mg/Kg wet							
o-Xylene	ND	0.050	mg/Kg wet							
Xylenes (total)	ND	0.0030	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	*0.0257*		mg/Kg wet	0.0250		103	70-130			
Surrogate: Toluene-d8	*0.0248*		mg/Kg wet	0.0250		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0228*		mg/Kg wet	0.0250		91.3	70-130			
LCS (B248080-BS1)				Prepared & Analyzed: 12/11/19						
Acetone	0.111	0.057	mg/Kg wet	0.113		98.0	40-160			
Acrylonitrile	0.0103	0.0057	mg/Kg wet	0.0113		91.3	70-130			
Benzene	0.0123	0.0011	mg/Kg wet	0.0113		108	70-130			
Bromobenzene	0.0111	0.0011	mg/Kg wet	0.0113		97.9	70-130			
Bromodichloromethane	0.0120	0.0011	mg/Kg wet	0.0113		106	70-130			
Bromoform	0.0106	0.0011	mg/Kg wet	0.0113		93.7	70-130			
Bromomethane	0.0154	0.0023	mg/Kg wet	0.0113		136	40-160			V-20
2-Butanone (MEK)	0.112	0.023	mg/Kg wet	0.113		99.2	40-160			
n-Butylbenzene	0.0109	0.0011	mg/Kg wet	0.0113		96.4	70-130			
sec-Butylbenzene	0.0125	0.0011	mg/Kg wet	0.0113		110	70-130			
tert-Butylbenzene	0.0125	0.0011	mg/Kg wet	0.0113		110	70-130			
Carbon Disulfide	0.119	0.0057	mg/Kg wet	0.113		105	70-130			
Carbon Tetrachloride	0.0123	0.0011	mg/Kg wet	0.0113		109	70-130			
Chlorobenzene	0.0124	0.0011	mg/Kg wet	0.0113		109	70-130			
Chlorodibromomethane	0.0118	0.00057	mg/Kg wet	0.0113		104	40-160			
Chloroethane	0.0122	0.0023	mg/Kg wet	0.0113		108	70-130			
Chloroform	0.0126	0.0023	mg/Kg wet	0.0113		111	70-130			
Chloromethane	0.0159	0.0023	mg/Kg wet	0.0113		140	40-160			V-20
2-Chlorotoluene	0.0116	0.0011	mg/Kg wet	0.0113		103	70-130			
4-Chlorotoluene	0.0110	0.0011	mg/Kg wet	0.0113		97.0	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.00971	0.0057	mg/Kg wet	0.0113		85.7	70-130			
1,2-Dibromoethane (EDB)	0.0117	0.00057	mg/Kg wet	0.0113		103	70-130			
Dibromomethane	0.0121	0.0011	mg/Kg wet	0.0113		107	70-130			
1,2-Dichlorobenzene	0.0121	0.0011	mg/Kg wet	0.0113		106	70-130			
1,3-Dichlorobenzene	0.0123	0.0011	mg/Kg wet	0.0113		109	70-130			
1,4-Dichlorobenzene	0.0122	0.0011	mg/Kg wet	0.0113		108	70-130			
trans-1,4-Dichloro-2-butene	0.00910	0.0023	mg/Kg wet	0.0113		80.3	70-130			
Dichlorodifluoromethane (Freon 12)	0.0109	0.0023	mg/Kg wet	0.0113		96.2	40-160			
1,1-Dichloroethane	0.0121	0.0011	mg/Kg wet	0.0113		107	70-130			
1,2-Dichloroethane	0.0125	0.0011	mg/Kg wet	0.0113		111	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B248080 - SW-846 5035										
LCS (B248080-BS1)				Prepared & Analyzed: 12/11/19						
1,1-Dichloroethylene	0.0125	0.0011	mg/Kg wet	0.0113		110	70-130			
cis-1,2-Dichloroethylene	0.0122	0.0011	mg/Kg wet	0.0113		108	70-130			
trans-1,2-Dichloroethylene	0.0122	0.0011	mg/Kg wet	0.0113		108	70-130			
1,2-Dichloropropane	0.0124	0.0011	mg/Kg wet	0.0113		109	70-130			
1,3-Dichloropropane	0.0125	0.00057	mg/Kg wet	0.0113		111	70-130			
2,2-Dichloropropane	0.0100	0.0011	mg/Kg wet	0.0113		88.5	70-130			
1,1-Dichloropropene	0.0127	0.0023	mg/Kg wet	0.0113		112	70-130			
cis-1,3-Dichloropropene	0.0117	0.00057	mg/Kg wet	0.0113		103	70-130			
trans-1,3-Dichloropropene	0.0108	0.00057	mg/Kg wet	0.0113		95.6	70-130			
Ethylbenzene	0.0118	0.0011	mg/Kg wet	0.0113		104	70-130			
Hexachlorobutadiene	0.0109	0.0011	mg/Kg wet	0.0113		96.0	40-160			
2-Hexanone (MBK)	0.107	0.011	mg/Kg wet	0.113		94.2	70-130			
Isopropylbenzene (Cumene)	0.0120	0.0011	mg/Kg wet	0.0113		106	70-130			
p-Isopropyltoluene (p-Cymene)	0.0116	0.0011	mg/Kg wet	0.0113		103	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0115	0.0011	mg/Kg wet	0.0113		101	70-130			
Methylene Chloride	0.0125	0.0057	mg/Kg wet	0.0113		110	70-130			
4-Methyl-2-pentanone (MIBK)	0.109	0.011	mg/Kg wet	0.113		96.5	40-160			
Naphthalene	0.00716	0.0023	mg/Kg wet	0.0113		**63.2** *	70-130			L-03
n-Propylbenzene	0.0114	0.0011	mg/Kg wet	0.0113		100	70-130			
Styrene	0.0113	0.0011	mg/Kg wet	0.0113		99.8	70-130			
1,1,1,2-Tetrachloroethane	0.0126	0.0011	mg/Kg wet	0.0113		111	70-130			
1,1,2,2-Tetrachloroethane	0.0122	0.00057	mg/Kg wet	0.0113		108	70-130			
Tetrachloroethylene	0.0126	0.0011	mg/Kg wet	0.0113		111	70-130			
Tetrahydrofuran	0.0114	0.011	mg/Kg wet	0.0113		101	70-130			
Toluene	0.0121	0.0011	mg/Kg wet	0.0113		107	70-130			
1,2,3-Trichlorobenzene	0.00699	0.0057	mg/Kg wet	0.0113		**61.7** *	70-130			L-03
1,2,4-Trichlorobenzene	0.00767	0.0011	mg/Kg wet	0.0113		**67.7** *	70-130			L-03
1,1,1-Trichloroethane	0.0128	0.0011	mg/Kg wet	0.0113		112	70-130			
1,1,2-Trichloroethane	0.0129	0.0011	mg/Kg wet	0.0113		114	70-130			
Trichloroethylene	0.0128	0.0011	mg/Kg wet	0.0113		113	70-130			
Trichlorofluoromethane (Freon 11)	0.0126	0.0023	mg/Kg wet	0.0113		111	40-160			
1,2,3-Trichloropropane	0.0103	0.0023	mg/Kg wet	0.0113		91.1	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0131	0.0011	mg/Kg wet	0.0113		115	70-130			
1,2,4-Trimethylbenzene	0.0125	0.0011	mg/Kg wet	0.0113		110	70-130			
1,3,5-Trimethylbenzene	0.0108	0.0011	mg/Kg wet	0.0113		95.7	70-130			
Vinyl Chloride	0.0128	0.0023	mg/Kg wet	0.0113		113	70-130			
m+p Xylene	0.0232	0.0023	mg/Kg wet	0.0227		102	70-130			
o-Xylene	0.0120	0.0011	mg/Kg wet	0.0113		106	70-130			
Xylenes (total)	0.0352	0.0034	mg/Kg wet	0.0340		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0290*		mg/Kg wet	0.0283		102	70-130			
Surrogate: Toluene-d8	*0.0280*		mg/Kg wet	0.0283		98.9	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0273*		mg/Kg wet	0.0283		96.3	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B248086 - SW-846 5030B										
Blank (B248086-BLK1)				Prepared: 12/11/19 Analyzed: 12/12/19						
Acetone	ND	10	µg/L							
Acrylonitrile	ND	2.0	µg/L							
Benzene	ND	0.50	µg/L							
Bromobenzene	ND	0.50	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	0.50	µg/L							
Bromomethane	ND	1.0	µg/L							
2-Butanone (MEK)	ND	5.0	µg/L							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
Carbon Disulfide	ND	5.0	µg/L							
Carbon Tetrachloride	ND	0.50	µg/L							
Chlorobenzene	ND	0.50	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	0.50	µg/L							
Chloroform	ND	0.50	µg/L							
Chloromethane	ND	0.60	µg/L							
2-Chlorotoluene	ND	0.50	µg/L							
4-Chlorotoluene	ND	0.50	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	1.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	0.50	µg/L							
1,2-Dichlorobenzene	ND	0.50	µg/L							
1,3-Dichlorobenzene	ND	0.50	µg/L							
1,4-Dichlorobenzene	ND	0.50	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L							
1,1-Dichloroethane	ND	0.50	µg/L							
1,2-Dichloroethane	ND	0.50	µg/L							
1,1-Dichloroethylene	ND	0.50	µg/L							
cis-1,2-Dichloroethylene	ND	0.50	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	0.50	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	0.50	µg/L							
1,1-Dichloropropene	ND	0.50	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Ethylbenzene	ND	0.50	µg/L							
Hexachlorobutadiene	ND	0.60	µg/L							
2-Hexanone (MBK)	ND	5.0	µg/L							
Isopropylbenzene (Cumene)	ND	0.50	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	0.50	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L							
Naphthalene	ND	2.0	µg/L							L-03, V-05
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B248086 - SW-846 5030B										
Blank (B248086-BLK1)				Prepared: 12/11/19 Analyzed: 12/12/19						
Tetrachloroethylene	ND	1.0	µg/L							
Tetrahydrofuran	ND	10	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	1.0	µg/L							L-03, V-05
1,2,4-Trichlorobenzene	ND	0.50	µg/L							L-03, V-05
1,1,1-Trichloroethane	ND	0.50	µg/L							
1,1,2-Trichloroethane	ND	0.50	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,2,3-Trichloropropane	ND	0.50	µg/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L							
1,2,4-Trimethylbenzene	ND	0.50	µg/L							
1,3,5-Trimethylbenzene	ND	0.50	µg/L							
Vinyl Chloride	ND	1.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Xylenes (total)	ND	3.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	*25.7*		µg/L	25.0		103	70-130			
Surrogate: Toluene-d8	*24.8*		µg/L	25.0		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	*22.8*		µg/L	25.0		91.3	70-130			
LCS (B248086-BS1)				Prepared & Analyzed: 12/11/19						
Acetone	98.0	10	µg/L	100		98.0	40-160			
Acrylonitrile	9.13	2.0	µg/L	10.0		91.3	70-130			
Benzene	10.8	0.50	µg/L	10.0		108	70-130			
Bromobenzene	9.79	0.50	µg/L	10.0		97.9	70-130			
Bromodichloromethane	10.6	0.50	µg/L	10.0		106	70-130			
Bromoform	9.37	0.50	µg/L	10.0		93.7	70-130			
Bromomethane	13.6	1.0	µg/L	10.0		136	40-160			V-20
2-Butanone (MEK)	99.2	5.0	µg/L	100		99.2	40-160			
n-Butylbenzene	9.64	1.0	µg/L	10.0		96.4	70-130			
sec-Butylbenzene	11.0	1.0	µg/L	10.0		110	70-130			
tert-Butylbenzene	11.0	1.0	µg/L	10.0		110	70-130			
Carbon Disulfide	105	5.0	µg/L	100		105	70-130			
Carbon Tetrachloride	10.9	0.50	µg/L	10.0		109	70-130			
Chlorobenzene	10.9	0.50	µg/L	10.0		109	70-130			
Chlorodibromomethane	10.4	0.50	µg/L	10.0		104	40-160			
Chloroethane	10.8	0.50	µg/L	10.0		108	70-130			
Chloroform	11.1	0.50	µg/L	10.0		111	70-130			
Chloromethane	14.0	0.60	µg/L	10.0		140	40-160			V-20
2-Chlorotoluene	10.3	0.50	µg/L	10.0		103	70-130			
4-Chlorotoluene	9.70	0.50	µg/L	10.0		97.0	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	8.57	1.0	µg/L	10.0		85.7	70-130			
1,2-Dibromoethane (EDB)	10.3	0.50	µg/L	10.0		103	70-130			
Dibromomethane	10.7	0.50	µg/L	10.0		107	70-130			
1,2-Dichlorobenzene	10.6	0.50	µg/L	10.0		106	70-130			
1,3-Dichlorobenzene	10.9	0.50	µg/L	10.0		109	70-130			
1,4-Dichlorobenzene	10.8	0.50	µg/L	10.0		108	70-130			
trans-1,4-Dichloro-2-butene	8.03	2.0	µg/L	10.0		80.3	70-130			
Dichlorodifluoromethane (Freon 12)	9.62	0.50	µg/L	10.0		96.2	40-160			
1,1-Dichloroethane	10.7	0.50	µg/L	10.0		107	70-130			
1,2-Dichloroethane	11.1	0.50	µg/L	10.0		111	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B248086 - SW-846 5030B											
LCS (B248086-BS1)				Prepared & Analyzed: 12/11/19							
1,1-Dichloroethylene	11.0	0.50	µg/L	10.0		110		70-130			
cis-1,2-Dichloroethylene	10.8	0.50	µg/L	10.0		108		70-130			
trans-1,2-Dichloroethylene	10.8	1.0	µg/L	10.0		108		70-130			
1,2-Dichloropropane	10.9	0.50	µg/L	10.0		109		70-130			
1,3-Dichloropropane	11.1	0.50	µg/L	10.0		111		70-130			
2,2-Dichloropropane	8.85	0.50	µg/L	10.0		88.5		70-130			
1,1-Dichloropropene	11.2	0.50	µg/L	10.0		112		70-130			
cis-1,3-Dichloropropene	10.3	0.50	µg/L	10.0		103		70-130			
trans-1,3-Dichloropropene	9.56	0.50	µg/L	10.0		95.6		70-130			
Ethylbenzene	10.4	0.50	µg/L	10.0		104		70-130			
Hexachlorobutadiene	9.60	0.60	µg/L	10.0		96.0		40-160			
2-Hexanone (MBK)	94.2	5.0	µg/L	100		94.2		70-130			
Isopropylbenzene (Cumene)	10.6	0.50	µg/L	10.0		106		70-130			
p-Isopropyltoluene (p-Cymene)	10.3	0.50	µg/L	10.0		103		70-130			
Methyl tert-Butyl Ether (MTBE)	10.1	0.50	µg/L	10.0		101		70-130			
Methylene Chloride	11.0	5.0	µg/L	10.0		110		70-130			
4-Methyl-2-pentanone (MIBK)	96.5	5.0	µg/L	100		96.5		40-160			
Naphthalene	6.32	2.0	µg/L	10.0		**63.2**	*	70-130			L-03, V-05
n-Propylbenzene	10.0	1.0	µg/L	10.0		100		70-130			
Styrene	9.98	1.0	µg/L	10.0		99.8		70-130			
1,1,1,2-Tetrachloroethane	11.1	0.50	µg/L	10.0		111		70-130			
1,1,2,2-Tetrachloroethane	10.8	0.50	µg/L	10.0		108		70-130			
Tetrachloroethylene	11.1	1.0	µg/L	10.0		111		70-130			
Tetrahydrofuran	10.1	10	µg/L	10.0		101		70-130			
Toluene	10.7	1.0	µg/L	10.0		107		70-130			
1,2,3-Trichlorobenzene	6.17	1.0	µg/L	10.0		**61.7**	*	70-130			L-03, V-05
1,2,4-Trichlorobenzene	6.77	0.50	µg/L	10.0		**67.7**	*	70-130			L-03, V-05
1,1,1-Trichloroethane	11.2	0.50	µg/L	10.0		112		70-130			
1,1,2-Trichloroethane	11.4	0.50	µg/L	10.0		114		70-130			
Trichloroethylene	11.3	1.0	µg/L	10.0		113		70-130			
Trichlorofluoromethane (Freon 11)	11.1	2.0	µg/L	10.0		111		40-160			
1,2,3-Trichloropropane	9.11	0.50	µg/L	10.0		91.1		70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.5	0.50	µg/L	10.0		115		70-130			
1,2,4-Trimethylbenzene	11.0	0.50	µg/L	10.0		110		70-130			
1,3,5-Trimethylbenzene	9.57	0.50	µg/L	10.0		95.7		70-130			
Vinyl Chloride	11.3	1.0	µg/L	10.0		113		70-130			
m+p Xylene	20.4	2.0	µg/L	20.0		102		70-130			
o-Xylene	10.6	1.0	µg/L	10.0		106		70-130			
Xylenes (total)	31.0	3.0	µg/L	30.0		103		70-130			
Surrogate: 1,2-Dichloroethane-d4	*25.6*		µg/L	25.0		102		70-130			
Surrogate: Toluene-d8	*24.7*		µg/L	25.0		98.9		70-130			
Surrogate: 4-Bromofluorobenzene	*24.1*		µg/L	25.0		96.3		70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B248048 - SW-846 3546										
Blank (B248048-BLK1)				Prepared: 12/10/19 Analyzed: 12/11/19						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Aniline	ND	0.34	mg/Kg wet							V-05
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
Carbazole	ND	0.17	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							
4-Chloro-3-methylphenol	ND	0.66	mg/Kg wet							
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
4-Chlorophenylphenylether	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
4,6-Dinitro-2-methylphenol	ND	0.34	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							L-04, V-05
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachlorocyclopentadiene	ND	0.34	mg/Kg wet							
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
2-Nitroaniline	ND	0.34	mg/Kg wet							
3-Nitroaniline	ND	0.34	mg/Kg wet							
4-Nitroaniline	ND	0.34	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B248048 - SW-846 3546											
Blank (B248048-BLK1)				Prepared: 12/10/19 Analyzed: 12/11/19							
4-Nitrophenol	ND	0.66	mg/Kg wet								
N-Nitrosodiphenylamine/Diphenylamine	ND	0.34	mg/Kg wet								
N-Nitrosodi-n-propylamine	ND	0.34	mg/Kg wet								
Pentachloronitrobenzene	ND	0.34	mg/Kg wet								
Pentachlorophenol	ND	0.34	mg/Kg wet								
Phenanthrene	ND	0.17	mg/Kg wet								
Phenol	ND	0.34	mg/Kg wet								
Pyrene	ND	0.17	mg/Kg wet								
Pyridine	ND	0.34	mg/Kg wet							V-05	
1,2,4,5-Tetrachlorobenzene	ND	0.34	mg/Kg wet								
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg wet								
2,4,5-Trichlorophenol	ND	0.34	mg/Kg wet								
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet								
Surrogate: 2-Fluorophenol	*5.33*		mg/Kg wet	6.67		80.0	30-130				
Surrogate: Phenol-d6	*5.18*		mg/Kg wet	6.67		77.8	30-130				
Surrogate: Nitrobenzene-d5	*2.40*		mg/Kg wet	3.33		72.1	30-130				
Surrogate: 2-Fluorobiphenyl	*3.51*		mg/Kg wet	3.33		105	30-130				
Surrogate: 2,4,6-Tribromophenol	*5.88*		mg/Kg wet	6.67		88.1	30-130				
Surrogate: p-Terphenyl-d14	*3.27*		mg/Kg wet	3.33		98.0	30-130				
LCS (B248048-BS1)				Prepared: 12/10/19 Analyzed: 12/11/19							
Acenaphthene	1.27	0.17	mg/Kg wet	1.67		76.2	40-140				
Acenaphthylene	1.35	0.17	mg/Kg wet	1.67		81.0	40-140				
Aniline	0.866	0.34	mg/Kg wet	1.67		52.0	40-140			V-05	†
Anthracene	1.42	0.17	mg/Kg wet	1.67		84.9	40-140				
Benzo(a)anthracene	1.45	0.17	mg/Kg wet	1.67		86.9	40-140				
Benzo(a)pyrene	1.41	0.17	mg/Kg wet	1.67		84.6	40-140				
Benzo(b)fluoranthene	1.39	0.17	mg/Kg wet	1.67		83.7	40-140				
Benzo(g,h,i)perylene	1.43	0.17	mg/Kg wet	1.67		86.0	40-140				
Benzo(k)fluoranthene	1.41	0.17	mg/Kg wet	1.67		84.7	40-140				
Bis(2-chloroethoxy)methane	1.08	0.34	mg/Kg wet	1.67		64.9	40-140				
Bis(2-chloroethyl)ether	1.06	0.34	mg/Kg wet	1.67		63.8	40-140				
Bis(2-chloroisopropyl)ether	1.46	0.34	mg/Kg wet	1.67		87.3	40-140				
Bis(2-Ethylhexyl)phthalate	1.28	0.34	mg/Kg wet	1.67		77.0	40-140				
4-Bromophenylphenylether	1.42	0.34	mg/Kg wet	1.67		85.5	40-140				
Butylbenzylphthalate	1.30	0.34	mg/Kg wet	1.67		77.9	40-140				
Carbazole	1.36	0.17	mg/Kg wet	1.67		81.7	40-140				
4-Chloroaniline	1.18	0.66	mg/Kg wet	1.67		71.1	40-140				†
4-Chloro-3-methylphenol	1.44	0.66	mg/Kg wet	1.67		86.5	30-130				
2-Chloronaphthalene	1.22	0.34	mg/Kg wet	1.67		73.4	40-140				
2-Chlorophenol	1.23	0.34	mg/Kg wet	1.67		73.8	30-130				
4-Chlorophenylphenylether	1.43	0.34	mg/Kg wet	1.67		85.7	40-140				
Chrysene	1.41	0.17	mg/Kg wet	1.67		84.9	40-140				
Dibenz(a,h)anthracene	1.40	0.17	mg/Kg wet	1.67		84.3	40-140				
Dibenzofuran	1.43	0.34	mg/Kg wet	1.67		86.0	40-140				
Di-n-butylphthalate	1.32	0.34	mg/Kg wet	1.67		79.5	40-140				
3,3-Dichlorobenzidine	1.54	0.17	mg/Kg wet	1.67		92.2	40-140				†
2,4-Dichlorophenol	1.40	0.34	mg/Kg wet	1.67		84.1	30-130				
Diethylphthalate	1.41	0.34	mg/Kg wet	1.67		84.4	40-140				
2,4-Dimethylphenol	1.27	0.34	mg/Kg wet	1.67		76.5	30-130				
Dimethylphthalate	1.39	0.34	mg/Kg wet	1.67		83.3	40-140				
4,6-Dinitro-2-methylphenol	0.638	0.34	mg/Kg wet	1.67		38.3	30-130				

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B248048 - SW-846 3546											
LCS (B248048-BS1)				Prepared: 12/10/19 Analyzed: 12/11/19							
2,4-Dinitrophenol	0.355	0.66	mg/Kg wet	1.67		**21.3** *	30-130			L-04, V-05	
2,4-Dinitrotoluene	1.38	0.34	mg/Kg wet	1.67		83.0	40-140				
2,6-Dinitrotoluene	1.44	0.34	mg/Kg wet	1.67		86.5	40-140				
Di-n-octylphthalate	1.20	0.34	mg/Kg wet	1.67		72.3	40-140				
Fluoranthene	1.47	0.17	mg/Kg wet	1.67		88.4	40-140				
Fluorene	1.41	0.17	mg/Kg wet	1.67		84.4	40-140				
Hexachlorobenzene	1.50	0.34	mg/Kg wet	1.67		90.2	40-140				
Hexachlorobutadiene	1.26	0.34	mg/Kg wet	1.67		75.5	40-140				
Hexachlorocyclopentadiene	0.944	0.34	mg/Kg wet	1.67		56.6	30-140				
Hexachloroethane	1.02	0.34	mg/Kg wet	1.67		61.2	40-140				
Indeno(1,2,3-cd)pyrene	1.53	0.17	mg/Kg wet	1.67		92.0	40-140				
Isophorone	1.20	0.34	mg/Kg wet	1.67		72.2	40-140				
2-Methylnaphthalene	1.44	0.17	mg/Kg wet	1.67		86.7	40-140				
2-Methylphenol	1.19	0.34	mg/Kg wet	1.67		71.5	30-130				
3/4-Methylphenol	1.27	0.34	mg/Kg wet	1.67		76.4	30-130				
Naphthalene	1.21	0.17	mg/Kg wet	1.67		72.9	40-140				
2-Nitroaniline	1.43	0.34	mg/Kg wet	1.67		85.7	40-140				
3-Nitroaniline	1.35	0.34	mg/Kg wet	1.67		81.2	40-140				†
4-Nitroaniline	1.41	0.34	mg/Kg wet	1.67		84.9	40-140				
Nitrobenzene	1.16	0.34	mg/Kg wet	1.67		69.3	40-140				
2-Nitrophenol	1.25	0.34	mg/Kg wet	1.67		75.3	30-130				
4-Nitrophenol	1.45	0.66	mg/Kg wet	1.67		87.2	10-130				
N-Nitrosodiphenylamine/Diphenylamine	1.45	0.34	mg/Kg wet	1.67		87.1	40-140				
N-Nitrosodi-n-propylamine	1.12	0.34	mg/Kg wet	1.67		67.0	40-140				
Pentachloronitrobenzene	1.47	0.34	mg/Kg wet	1.67		87.9	40-140				
Pentachlorophenol	0.542	0.34	mg/Kg wet	1.67		32.5	30-130				
Phenanthrene	1.44	0.17	mg/Kg wet	1.67		86.2	40-140				
Phenol	1.19	0.34	mg/Kg wet	1.67		71.4	20-130				
Pyrene	1.43	0.17	mg/Kg wet	1.67		85.7	40-140				
Pyridine	0.601	0.34	mg/Kg wet	1.67		36.1	10-140			V-05	†
1,2,4,5-Tetrachlorobenzene	1.30	0.34	mg/Kg wet	1.67		77.8	40-140				
1,2,4-Trichlorobenzene	1.26	0.34	mg/Kg wet	1.67		75.8	40-140				
2,4,5-Trichlorophenol	1.49	0.34	mg/Kg wet	1.67		89.6	30-130				
2,4,6-Trichlorophenol	1.43	0.34	mg/Kg wet	1.67		85.6	30-130				
Surrogate: 2-Fluorophenol	*5.17*		mg/Kg wet	6.67		77.6	30-130				
Surrogate: Phenol-d6	*5.11*		mg/Kg wet	6.67		76.7	30-130				
Surrogate: Nitrobenzene-d5	*2.35*		mg/Kg wet	3.33		70.6	30-130				
Surrogate: 2-Fluorobiphenyl	*3.43*		mg/Kg wet	3.33		103	30-130				
Surrogate: 2,4,6-Tribromophenol	*7.15*		mg/Kg wet	6.67		107	30-130				
Surrogate: p-Terphenyl-d14	*3.15*		mg/Kg wet	3.33		94.5	30-130				
LCS Dup (B248048-BSD1)				Prepared: 12/10/19 Analyzed: 12/11/19							
Acenaphthene	1.23	0.17	mg/Kg wet	1.67		73.7	40-140	3.34	30		
Acenaphthylene	1.32	0.17	mg/Kg wet	1.67		79.4	40-140	2.02	30		
Aniline	0.922	0.34	mg/Kg wet	1.67		55.3	40-140	6.26	50	V-05	† ‡
Anthracene	1.35	0.17	mg/Kg wet	1.67		81.0	40-140	4.80	30		
Benzo(a)anthracene	1.36	0.17	mg/Kg wet	1.67		81.6	40-140	6.34	30		
Benzo(a)pyrene	1.34	0.17	mg/Kg wet	1.67		80.5	40-140	4.92	30		
Benzo(b)fluoranthene	1.33	0.17	mg/Kg wet	1.67		80.0	40-140	4.45	30		
Benzo(g,h,i)perylene	1.36	0.17	mg/Kg wet	1.67		81.9	40-140	4.89	30		
Benzo(k)fluoranthene	1.35	0.17	mg/Kg wet	1.67		80.8	40-140	4.62	30		
Bis(2-chloroethoxy)methane	1.07	0.34	mg/Kg wet	1.67		64.1	40-140	1.21	30		

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B248048 - SW-846 3546												
LCS Dup (B248048-BSD1)				Prepared: 12/10/19 Analyzed: 12/11/19								
Bis(2-chloroethyl)ether	1.07	0.34	mg/Kg wet	1.67		64.3		40-140	0.718	30		
Bis(2-chloroisopropyl)ether	1.45	0.34	mg/Kg wet	1.67		86.9		40-140	0.505	30		
Bis(2-Ethylhexyl)phthalate	1.21	0.34	mg/Kg wet	1.67		72.8		40-140	5.66	30		
4-Bromophenylphenylether	1.34	0.34	mg/Kg wet	1.67		80.7		40-140	5.78	30		
Butylbenzylphthalate	1.24	0.34	mg/Kg wet	1.67		74.1		40-140	4.95	30		
Carbazole	1.30	0.17	mg/Kg wet	1.67		78.0		40-140	4.56	30		
4-Chloroaniline	1.23	0.66	mg/Kg wet	1.67		73.9		40-140	3.95	30		†
4-Chloro-3-methylphenol	1.38	0.66	mg/Kg wet	1.67		83.0		30-130	4.11	30		
2-Chloronaphthalene	1.14	0.34	mg/Kg wet	1.67		68.1		40-140	7.41	30		
2-Chlorophenol	1.23	0.34	mg/Kg wet	1.67		73.5		30-130	0.326	30		
4-Chlorophenylphenylether	1.40	0.34	mg/Kg wet	1.67		83.8		40-140	2.24	30		
Chrysene	1.35	0.17	mg/Kg wet	1.67		80.8		40-140	4.90	30		
Dibenz(a,h)anthracene	1.34	0.17	mg/Kg wet	1.67		80.2		40-140	4.96	30		
Dibenzofuran	1.42	0.34	mg/Kg wet	1.67		85.3		40-140	0.841	30		
Di-n-butylphthalate	1.26	0.34	mg/Kg wet	1.67		75.4		40-140	5.22	30		
3,3-Dichlorobenzidine	1.51	0.17	mg/Kg wet	1.67		90.6		40-140	1.73	30		† ‡
2,4-Dichlorophenol	1.36	0.34	mg/Kg wet	1.67		81.7		30-130	2.92	30		
Diethylphthalate	1.37	0.34	mg/Kg wet	1.67		82.5		40-140	2.35	30		
2,4-Dimethylphenol	1.26	0.34	mg/Kg wet	1.67		75.5		30-130	1.26	30		
Dimethylphthalate	1.35	0.34	mg/Kg wet	1.67		81.0		40-140	2.80	50		
4,6-Dinitro-2-methylphenol	0.578	0.34	mg/Kg wet	1.67		34.7		30-130	9.87	50		
2,4-Dinitrophenol	0.352	0.66	mg/Kg wet	1.67		**21.1**	*	30-130	0.755	50	L-04, V-05	
2,4-Dinitrotoluene	1.34	0.34	mg/Kg wet	1.67		80.4		40-140	3.18	30		
2,6-Dinitrotoluene	1.37	0.34	mg/Kg wet	1.67		82.4		40-140	4.95	30		
Di-n-octylphthalate	1.14	0.34	mg/Kg wet	1.67		68.3		40-140	5.75	30		
Fluoranthene	1.40	0.17	mg/Kg wet	1.67		84.1		40-140	4.94	30		
Fluorene	1.39	0.17	mg/Kg wet	1.67		83.4		40-140	1.14	30		
Hexachlorobenzene	1.42	0.34	mg/Kg wet	1.67		85.0		40-140	5.98	30		
Hexachlorobutadiene	1.26	0.34	mg/Kg wet	1.67		75.5		40-140	0.0530	30		
Hexachlorocyclopentadiene	0.939	0.34	mg/Kg wet	1.67		56.3		30-140	0.531	50		
Hexachloroethane	1.03	0.34	mg/Kg wet	1.67		61.5		40-140	0.521	50		
Indeno(1,2,3-cd)pyrene	1.46	0.17	mg/Kg wet	1.67		87.8		40-140	4.67	50		
Isophorone	1.19	0.34	mg/Kg wet	1.67		71.2		40-140	1.48	30		
2-Methylnaphthalene	1.42	0.17	mg/Kg wet	1.67		85.1		40-140	1.84	30		
2-Methylphenol	1.16	0.34	mg/Kg wet	1.67		69.7		30-130	2.61	30		
3/4-Methylphenol	1.24	0.34	mg/Kg wet	1.67		74.3		30-130	2.76	30		
Naphthalene	1.20	0.17	mg/Kg wet	1.67		72.1		40-140	1.10	30		
2-Nitroaniline	1.38	0.34	mg/Kg wet	1.67		82.5		40-140	3.71	30		
3-Nitroaniline	1.35	0.34	mg/Kg wet	1.67		80.9		40-140	0.420	30		†
4-Nitroaniline	1.38	0.34	mg/Kg wet	1.67		83.1		40-140	2.12	30		
Nitrobenzene	1.13	0.34	mg/Kg wet	1.67		67.8		40-140	2.19	30		
2-Nitrophenol	1.24	0.34	mg/Kg wet	1.67		74.5		30-130	0.988	30		
4-Nitrophenol	1.44	0.66	mg/Kg wet	1.67		86.4		10-130	0.921	50		‡
N-Nitrosodiphenylamine/Diphenylamine	1.39	0.34	mg/Kg wet	1.67		83.2		40-140	4.53	30		
N-Nitrosodi-n-propylamine	1.12	0.34	mg/Kg wet	1.67		67.3		40-140	0.506	30		
Pentachloronitrobenzene	1.40	0.34	mg/Kg wet	1.67		83.9		40-140	4.66	30		
Pentachlorophenol	0.449	0.34	mg/Kg wet	1.67		**26.9**	*	30-130	18.8	50	L-07	
Phenanthrene	1.35	0.17	mg/Kg wet	1.67		81.2		40-140	5.93	30		
Phenol	1.17	0.34	mg/Kg wet	1.67		70.5		20-130	1.35	30		
Pyrene	1.36	0.17	mg/Kg wet	1.67		81.7		40-140	4.87	30		
Pyridine	0.611	0.34	mg/Kg wet	1.67		36.6		10-140	1.60	50	V-05	†
1,2,4,5-Tetrachlorobenzene	1.31	0.34	mg/Kg wet	1.67		78.6		40-140	0.997	30		

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B248048 - SW-846 3546										
LCS Dup (B248048-BSD1)				Prepared: 12/10/19 Analyzed: 12/11/19						
1,2,4-Trichlorobenzene	1.24	0.34	mg/Kg wet	1.67		74.2	40-140	2.03	30	
2,4,5-Trichlorophenol	1.45	0.34	mg/Kg wet	1.67		87.1	30-130	2.85	30	
2,4,6-Trichlorophenol	1.38	0.34	mg/Kg wet	1.67		82.8	30-130	3.28	50	
Surrogate: 2-Fluorophenol	*5.08*		mg/Kg wet	6.67		76.1	30-130			
Surrogate: Phenol-d6	*4.98*		mg/Kg wet	6.67		74.7	30-130			
Surrogate: Nitrobenzene-d5	*2.28*		mg/Kg wet	3.33		68.3	30-130			
Surrogate: 2-Fluorobiphenyl	*3.35*		mg/Kg wet	3.33		100	30-130			
Surrogate: 2,4,6-Tribromophenol	*6.78*		mg/Kg wet	6.67		102	30-130			
Surrogate: p-Terphenyl-d14	*2.90*		mg/Kg wet	3.33		86.9	30-130			
Batch B248072 - SW-846 3510C										
Blank (B248072-BLK1)				Prepared: 12/10/19 Analyzed: 12/12/19						
Acenaphthene	ND	5.0	µg/L							
Acenaphthylene	ND	5.0	µg/L							
Aniline	ND	5.0	µg/L							
Anthracene	ND	5.0	µg/L							
Benzo(a)anthracene	ND	5.0	µg/L							
Benzo(a)pyrene	ND	5.0	µg/L							
Benzo(b)fluoranthene	ND	5.0	µg/L							
Benzo(g,h,i)perylene	ND	5.0	µg/L							
Benzo(k)fluoranthene	ND	5.0	µg/L							
Bis(2-chloroethoxy)methane	ND	10	µg/L							
Bis(2-chloroethyl)ether	ND	10	µg/L							
Bis(2-chloroisopropyl)ether	ND	10	µg/L							
Bis(2-Ethylhexyl)phthalate	ND	2.0	µg/L							
4-Bromophenylphenylether	ND	10	µg/L							
Butylbenzylphthalate	ND	10	µg/L							
Carbazole	ND	10	µg/L							
4-Chloroaniline	ND	10	µg/L							
4-Chloro-3-methylphenol	ND	10	µg/L							
2-Chloronaphthalene	ND	10	µg/L							
2-Chlorophenol	ND	10	µg/L							
4-Chlorophenylphenylether	ND	10	µg/L							
Chrysene	ND	5.0	µg/L							
Dibenz(a,h)anthracene	ND	5.0	µg/L							
Dibenzofuran	ND	5.0	µg/L							
Di-n-butylphthalate	ND	10	µg/L							
3,3-Dichlorobenzidine	ND	10	µg/L							
2,4-Dichlorophenol	ND	10	µg/L							
Diethylphthalate	ND	10	µg/L							
2,4-Dimethylphenol	ND	10	µg/L							
Dimethylphthalate	ND	10	µg/L							
4,6-Dinitro-2-methylphenol	ND	10	µg/L							
2,4-Dinitrophenol	ND	10	µg/L							
2,4-Dinitrotoluene	ND	10	µg/L							
2,6-Dinitrotoluene	ND	10	µg/L							
Di-n-octylphthalate	ND	10	µg/L							
Fluoranthene	ND	5.0	µg/L							
Fluorene	ND	5.0	µg/L							
Hexachlorobenzene	ND	2.0	µg/L							
Hexachlorobutadiene	ND	10	µg/L							
Hexachlorocyclopentadiene	ND	10	µg/L							

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B248072 - SW-846 3510C										
Blank (B248072-BLK1)				Prepared: 12/10/19 Analyzed: 12/12/19						
Hexachloroethane	ND	2.0	µg/L							
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L							
Isophorone	ND	10	µg/L							
2-Methylnaphthalene	ND	5.0	µg/L							
2-Methylphenol	ND	10	µg/L							
3/4-Methylphenol	ND	10	µg/L							
Naphthalene	ND	5.0	µg/L							
2-Nitroaniline	ND	10	µg/L							
3-Nitroaniline	ND	10	µg/L							
4-Nitroaniline	ND	10	µg/L							
Nitrobenzene	ND	10	µg/L							
2-Nitrophenol	ND	10	µg/L							
4-Nitrophenol	ND	10	µg/L							
N-Nitrosodiphenylamine/Diphenylamine	ND	10	µg/L							
N-Nitrosodi-n-propylamine	ND	10	µg/L							
Pentachloronitrobenzene	ND	10	µg/L							
Pentachlorophenol	ND	5.0	µg/L							
Phenanthrene	ND	5.0	µg/L							
Phenol	ND	10	µg/L							
Pyrene	ND	5.0	µg/L							V-05
Pyridine	ND	5.0	µg/L							
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L							
1,2,4-Trichlorobenzene	ND	5.0	µg/L							
2,4,5-Trichlorophenol	ND	10	µg/L							
2,4,6-Trichlorophenol	ND	10	µg/L							
Surrogate: 2-Fluorophenol	*95.7*		µg/L	200		47.8	15-110			
Surrogate: Phenol-d6	*64.8*		µg/L	200		32.4	15-110			
Surrogate: Nitrobenzene-d5	*65.5*		µg/L	100		65.5	30-130			
Surrogate: 2-Fluorobiphenyl	*80.3*		µg/L	100		80.3	30-130			
Surrogate: 2,4,6-Tribromophenol	*128*		µg/L	200		64.0	15-110			
Surrogate: p-Terphenyl-d14	*66.8*		µg/L	100		66.8	30-130			
LCS (B248072-BS1)				Prepared: 12/10/19 Analyzed: 12/12/19						
Acenaphthene	39.5	5.0	µg/L	50.0		79.0	40-140			
Acenaphthylene	39.6	5.0	µg/L	50.0		79.1	40-140			
Aniline	32.0	5.0	µg/L	50.0		64.0	40-140			†
Anthracene	41.8	5.0	µg/L	50.0		83.6	40-140			
Benzo(a)anthracene	42.9	5.0	µg/L	50.0		85.8	40-140			
Benzo(a)pyrene	41.4	5.0	µg/L	50.0		82.8	40-140			
Benzo(b)fluoranthene	41.8	5.0	µg/L	50.0		83.6	40-140			
Benzo(g,h,i)perylene	40.2	5.0	µg/L	50.0		80.4	40-140			
Benzo(k)fluoranthene	44.9	5.0	µg/L	50.0		89.8	40-140			
Bis(2-chloroethoxy)methane	41.6	10	µg/L	50.0		83.2	40-140			
Bis(2-chloroethyl)ether	39.6	10	µg/L	50.0		79.2	40-140			
Bis(2-chloroisopropyl)ether	44.0	10	µg/L	50.0		88.0	40-140			
Bis(2-Ethylhexyl)phthalate	42.4	10	µg/L	50.0		84.7	40-140			
4-Bromophenylphenylether	40.0	10	µg/L	50.0		80.0	40-140			
Butylbenzylphthalate	40.9	10	µg/L	50.0		81.9	40-140			
Carbazole	41.8	10	µg/L	50.0		83.5	40-140			
4-Chloroaniline	37.9	10	µg/L	50.0		75.8	40-140			†
4-Chloro-3-methylphenol	41.8	10	µg/L	50.0		83.5	30-130			
2-Chloronaphthalene	33.3	10	µg/L	50.0		66.6	40-140			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B248072 - SW-846 3510C											
LCS (B248072-BS1)				Prepared: 12/10/19 Analyzed: 12/12/19							
2-Chlorophenol	36.9	10	µg/L	50.0		73.9	30-130				
4-Chlorophenylphenylether	41.0	10	µg/L	50.0		81.9	40-140				
Chrysene	42.9	5.0	µg/L	50.0		85.8	40-140				
Dibenz(a,h)anthracene	39.2	5.0	µg/L	50.0		78.4	40-140				
Dibenzofuran	41.6	5.0	µg/L	50.0		83.2	40-140				
Di-n-butylphthalate	41.3	10	µg/L	50.0		82.5	40-140				
3,3-Dichlorobenzidine	47.1	10	µg/L	50.0		94.2	40-140				†
2,4-Dichlorophenol	40.5	10	µg/L	50.0		81.0	30-130				
Diethylphthalate	41.6	10	µg/L	50.0		83.2	40-140				
2,4-Dimethylphenol	37.0	10	µg/L	50.0		74.0	30-130				
Dimethylphthalate	41.3	10	µg/L	50.0		82.7	40-140				
4,6-Dinitro-2-methylphenol	40.6	10	µg/L	50.0		81.2	30-130				
2,4-Dinitrophenol	40.8	10	µg/L	50.0		81.7	30-130				
2,4-Dinitrotoluene	43.1	10	µg/L	50.0		86.2	40-140				
2,6-Dinitrotoluene	43.0	10	µg/L	50.0		86.1	40-140				
Di-n-octylphthalate	43.9	10	µg/L	50.0		87.7	40-140				
Fluoranthene	42.6	5.0	µg/L	50.0		85.1	40-140				
Fluorene	41.8	5.0	µg/L	50.0		83.5	40-140				
Hexachlorobenzene	40.4	10	µg/L	50.0		80.8	40-140				
Hexachlorobutadiene	31.0	10	µg/L	50.0		62.0	40-140				
Hexachlorocyclopentadiene	30.5	10	µg/L	50.0		61.1	30-140				
Hexachloroethane	28.9	10	µg/L	50.0		57.8	40-140				
Indeno(1,2,3-cd)pyrene	41.6	5.0	µg/L	50.0		83.2	40-140				
Isophorone	42.3	10	µg/L	50.0		84.6	40-140				
2-Methylnaphthalene	42.6	5.0	µg/L	50.0		85.2	40-140				
2-Methylphenol	33.4	10	µg/L	50.0		66.8	30-130				
3/4-Methylphenol	34.8	10	µg/L	50.0		69.6	30-130				
Naphthalene	35.9	5.0	µg/L	50.0		71.8	40-140				
2-Nitroaniline	49.9	10	µg/L	50.0		99.8	40-140				
3-Nitroaniline	39.9	10	µg/L	50.0		79.9	40-140				†
4-Nitroaniline	44.5	10	µg/L	50.0		89.0	40-140				
Nitrobenzene	38.1	10	µg/L	50.0		76.1	40-140				
2-Nitrophenol	40.2	10	µg/L	50.0		80.5	30-130				
4-Nitrophenol	22.4	10	µg/L	50.0		44.9	10-130				
N-Nitrosodiphenylamine/Diphenylamine	42.2	10	µg/L	50.0		84.4	40-140				
N-Nitrosodi-n-propylamine	42.4	10	µg/L	50.0		84.8	40-140				
Pentachloronitrobenzene	45.4	10	µg/L	50.0		90.7	40-140				
Pentachlorophenol	42.3	10	µg/L	50.0		84.6	30-130				
Phenanthrene	41.7	5.0	µg/L	50.0		83.4	40-140				
Phenol	17.7	10	µg/L	50.0		35.4	20-130				
Pyrene	38.8	5.0	µg/L	50.0		77.6	40-140			V-05	
Pyridine	10.6	5.0	µg/L	50.0		21.3	10-140				†
1,2,4,5-Tetrachlorobenzene	35.4	10	µg/L	50.0		70.9	40-140				
1,2,4-Trichlorobenzene	34.2	5.0	µg/L	50.0		68.4	40-140				
2,4,5-Trichlorophenol	40.2	10	µg/L	50.0		80.3	30-130				
2,4,6-Trichlorophenol	40.2	10	µg/L	50.0		80.4	30-130				
Surrogate: 2-Fluorophenol	*106*		µg/L	200		52.8	15-110				
Surrogate: Phenol-d6	*74.8*		µg/L	200		37.4	15-110				
Surrogate: Nitrobenzene-d5	*78.0*		µg/L	100		78.0	30-130				
Surrogate: 2-Fluorobiphenyl	*95.0*		µg/L	100		95.0	30-130				
Surrogate: 2,4,6-Tribromophenol	*184*		µg/L	200		92.0	15-110				
Surrogate: p-Terphenyl-d14	*81.6*		µg/L	100		81.6	30-130				

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B248072 - SW-846 3510C										
LCS Dup (B248072-BSD1)				Prepared: 12/10/19 Analyzed: 12/12/19						
Acenaphthene	37.6	5.0	µg/L	50.0		75.3	40-140	4.85	20	
Acenaphthylene	36.7	5.0	µg/L	50.0		73.4	40-140	7.47	20	
Aniline	27.3	5.0	µg/L	50.0		54.7	40-140	15.7	50	† ‡
Anthracene	38.4	5.0	µg/L	50.0		76.7	40-140	8.63	20	
Benzo(a)anthracene	38.3	5.0	µg/L	50.0		76.7	40-140	11.2	20	
Benzo(a)pyrene	37.4	5.0	µg/L	50.0		74.8	40-140	10.1	20	
Benzo(b)fluoranthene	38.1	5.0	µg/L	50.0		76.3	40-140	9.21	20	
Benzo(g,h,i)perylene	36.2	5.0	µg/L	50.0		72.4	40-140	10.4	20	
Benzo(k)fluoranthene	39.6	5.0	µg/L	50.0		79.1	40-140	12.6	20	
Bis(2-chloroethoxy)methane	39.0	10	µg/L	50.0		78.0	40-140	6.45	20	
Bis(2-chloroethyl)ether	34.5	10	µg/L	50.0		69.0	40-140	13.8	20	
Bis(2-chloroisopropyl)ether	38.0	10	µg/L	50.0		76.0	40-140	14.7	20	
Bis(2-Ethylhexyl)phthalate	37.7	10	µg/L	50.0		75.5	40-140	11.6	20	
4-Bromophenylphenylether	36.8	10	µg/L	50.0		73.5	40-140	8.42	20	
Butylbenzylphthalate	36.1	10	µg/L	50.0		72.2	40-140	12.5	20	
Carbazole	38.4	10	µg/L	50.0		76.8	40-140	8.44	20	
4-Chloroaniline	33.3	10	µg/L	50.0		66.6	40-140	13.0	20	†
4-Chloro-3-methylphenol	38.9	10	µg/L	50.0		77.7	30-130	7.17	20	
2-Chloronaphthalene	30.4	10	µg/L	50.0		60.8	40-140	9.01	20	
2-Chlorophenol	32.2	10	µg/L	50.0		64.5	30-130	13.6	20	
4-Chlorophenylphenylether	38.2	10	µg/L	50.0		76.4	40-140	7.05	20	
Chrysene	38.1	5.0	µg/L	50.0		76.3	40-140	11.7	20	
Dibenz(a,h)anthracene	35.1	5.0	µg/L	50.0		70.1	40-140	11.1	20	
Dibenzofuran	39.2	5.0	µg/L	50.0		78.3	40-140	5.97	20	
Di-n-butylphthalate	36.8	10	µg/L	50.0		73.6	40-140	11.4	20	
3,3-Dichlorobenzidine	41.7	10	µg/L	50.0		83.3	40-140	12.2	20	† ‡
2,4-Dichlorophenol	38.6	10	µg/L	50.0		77.1	30-130	4.93	20	
Diethylphthalate	39.3	10	µg/L	50.0		78.6	40-140	5.69	20	
2,4-Dimethylphenol	35.3	10	µg/L	50.0		70.6	30-130	4.70	20	
Dimethylphthalate	37.6	10	µg/L	50.0		75.2	40-140	9.40	50	
4,6-Dinitro-2-methylphenol	37.2	10	µg/L	50.0		74.3	30-130	8.82	50	
2,4-Dinitrophenol	39.2	10	µg/L	50.0		78.3	30-130	4.17	50	
2,4-Dinitrotoluene	40.1	10	µg/L	50.0		80.3	40-140	7.14	20	
2,6-Dinitrotoluene	41.6	10	µg/L	50.0		83.2	40-140	3.43	20	
Di-n-octylphthalate	38.2	10	µg/L	50.0		76.3	40-140	13.9	20	
Fluoranthene	39.1	5.0	µg/L	50.0		78.1	40-140	8.53	20	
Fluorene	39.6	5.0	µg/L	50.0		79.3	40-140	5.21	20	
Hexachlorobenzene	37.0	10	µg/L	50.0		73.9	40-140	8.87	20	
Hexachlorobutadiene	28.1	10	µg/L	50.0		56.2	40-140	9.75	20	
Hexachlorocyclopentadiene	28.9	10	µg/L	50.0		57.8	30-140	5.49	50	
Hexachloroethane	23.6	10	µg/L	50.0		47.2	40-140	20.2	50	
Indeno(1,2,3-cd)pyrene	38.4	5.0	µg/L	50.0		76.9	40-140	7.92	50	
Isophorone	39.5	10	µg/L	50.0		78.9	40-140	6.90	20	
2-Methylnaphthalene	39.8	5.0	µg/L	50.0		79.5	40-140	6.87	20	
2-Methylphenol	30.2	10	µg/L	50.0		60.3	30-130	10.3	20	
3/4-Methylphenol	30.7	10	µg/L	50.0		61.4	30-130	12.6	20	
Naphthalene	33.5	5.0	µg/L	50.0		66.9	40-140	6.98	20	
2-Nitroaniline	45.6	10	µg/L	50.0		91.1	40-140	9.13	20	
3-Nitroaniline	36.0	10	µg/L	50.0		71.9	40-140	10.5	20	†
4-Nitroaniline	42.0	10	µg/L	50.0		84.0	40-140	5.73	20	
Nitrobenzene	34.9	10	µg/L	50.0		69.9	40-140	8.60	20	
2-Nitrophenol	36.9	10	µg/L	50.0		73.8	30-130	8.61	20	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B248072 - SW-846 3510C											
LCS Dup (B248072-BSD1)				Prepared: 12/10/19 Analyzed: 12/12/19							
4-Nitrophenol	20.9	10	µg/L	50.0		41.8	10-130	7.01	50		‡
N-Nitrosodiphenylamine/Diphenylamine	38.3	10	µg/L	50.0		76.6	40-140	9.74	20		
N-Nitrosodi-n-propylamine	37.6	10	µg/L	50.0		75.2	40-140	12.0	20		
Pentachloronitrobenzene	40.0	10	µg/L	50.0		79.9	40-140	12.6	20		
Pentachlorophenol	38.9	10	µg/L	50.0		77.9	30-130	8.27	50		
Phenanthrene	38.8	5.0	µg/L	50.0		77.6	40-140	7.20	20		
Phenol	15.6	10	µg/L	50.0		31.3	20-130	12.4	20		
Pyrene	34.3	5.0	µg/L	50.0		68.6	40-140	12.3	20	V-05	
Pyridine	10.4	5.0	µg/L	50.0		20.8	10-140	2.09	50		†
1,2,4,5-Tetrachlorobenzene	33.3	10	µg/L	50.0		66.6	40-140	6.14	20		
1,2,4-Trichlorobenzene	30.7	5.0	µg/L	50.0		61.4	40-140	10.8	20		
2,4,5-Trichlorophenol	37.5	10	µg/L	50.0		75.1	30-130	6.75	20		
2,4,6-Trichlorophenol	37.3	10	µg/L	50.0		74.7	30-130	7.40	50		
Surrogate: 2-Fluorophenol	*90.3*		µg/L	200		45.2	15-110				
Surrogate: Phenol-d6	*65.8*		µg/L	200		32.9	15-110				
Surrogate: Nitrobenzene-d5	*71.4*		µg/L	100		71.4	30-130				
Surrogate: 2-Fluorobiphenyl	*87.9*		µg/L	100		87.9	30-130				
Surrogate: 2,4,6-Tribromophenol	*170*		µg/L	200		85.2	15-110				
Surrogate: p-Terphenyl-d14	*72.0*		µg/L	100		72.0	30-130				
Batch B248106 - SW-846 3510C											
Blank (B248106-BLK1)				Prepared: 12/10/19 Analyzed: 12/11/19							
Acenaphthene (SIM)	ND	0.30	µg/L								
Acenaphthylene (SIM)	ND	0.20	µg/L								
Anthracene (SIM)	ND	0.20	µg/L								
Benzo(a)anthracene (SIM)	ND	0.050	µg/L								
Benzo(a)pyrene (SIM)	ND	0.10	µg/L								
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L								
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L								
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L								
Chrysene (SIM)	ND	0.20	µg/L								
Dibenz(a,h)anthracene (SIM)	ND	0.10	µg/L								
Fluoranthene (SIM)	ND	0.50	µg/L								
Fluorene (SIM)	ND	1.0	µg/L								
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.10	µg/L								
2-Methylnaphthalene (SIM)	ND	1.0	µg/L								
Naphthalene (SIM)	ND	1.0	µg/L								
Phenanthrene (SIM)	ND	0.050	µg/L								
Pyrene (SIM)	ND	1.0	µg/L								
Surrogate: Nitrobenzene-d5	*80.1*		µg/L	100		80.1	30-130				
Surrogate: 2-Fluorobiphenyl	*64.6*		µg/L	100		64.6	30-130				
Surrogate: p-Terphenyl-d14	*66.5*		µg/L	100		66.5	30-130				

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B248106 - SW-846 3510C										
LCS (B248106-BS1)				Prepared: 12/10/19 Analyzed: 12/11/19						
Acenaphthene (SIM)	29.9	6.0	µg/L	50.0		59.8	40-140			
Acenaphthylene (SIM)	30.6	4.0	µg/L	50.0		61.2	40-140			
Anthracene (SIM)	34.0	4.0	µg/L	50.0		68.0	40-140			
Benzo(a)anthracene (SIM)	34.3	1.0	µg/L	50.0		68.6	40-140			
Benzo(a)pyrene (SIM)	31.5	2.0	µg/L	50.0		63.0	40-140			
Benzo(b)fluoranthene (SIM)	36.0	1.0	µg/L	50.0		72.0	40-140			
Benzo(g,h,i)perylene (SIM)	32.8	10	µg/L	50.0		65.6	40-140			
Benzo(k)fluoranthene (SIM)	38.0	4.0	µg/L	50.0		76.0	40-140			
Chrysene (SIM)	29.3	4.0	µg/L	50.0		58.6	40-140			
Dibenz(a,h)anthracene (SIM)	36.7	2.0	µg/L	50.0		73.4	40-140			
Fluoranthene (SIM)	31.8	10	µg/L	50.0		63.5	40-140			
Fluorene (SIM)	31.3	20	µg/L	50.0		62.5	40-140			
Indeno(1,2,3-cd)pyrene (SIM)	40.4	2.0	µg/L	50.0		80.8	40-140			
2-Methylnaphthalene (SIM)	30.0	20	µg/L	50.0		60.1	40-140			
Naphthalene (SIM)	27.1	20	µg/L	50.0		54.2	40-140			
Phenanthrene (SIM)	30.9	1.0	µg/L	50.0		61.8	40-140			
Pyrene (SIM)	29.8	20	µg/L	50.0		59.6	40-140			
Surrogate: Nitrobenzene-d5	*60.3*		µg/L	100		60.3	30-130			
Surrogate: 2-Fluorobiphenyl	*59.5*		µg/L	100		59.5	30-130			
Surrogate: p-Terphenyl-d14	*45.7*		µg/L	100		45.7	30-130			
LCS Dup (B248106-BSD1)				Prepared: 12/10/19 Analyzed: 12/11/19						
Acenaphthene (SIM)	32.1	6.0	µg/L	50.0		64.3	40-140	7.15	20	
Acenaphthylene (SIM)	33.0	4.0	µg/L	50.0		66.1	40-140	7.60	20	
Anthracene (SIM)	36.2	4.0	µg/L	50.0		72.5	40-140	6.32	20	
Benzo(a)anthracene (SIM)	36.2	1.0	µg/L	50.0		72.4	40-140	5.39	20	
Benzo(a)pyrene (SIM)	33.1	2.0	µg/L	50.0		66.2	40-140	4.96	20	
Benzo(b)fluoranthene (SIM)	37.7	1.0	µg/L	50.0		75.4	40-140	4.67	20	
Benzo(g,h,i)perylene (SIM)	33.7	10	µg/L	50.0		67.4	40-140	2.65	20	
Benzo(k)fluoranthene (SIM)	39.6	4.0	µg/L	50.0		79.2	40-140	4.07	20	
Chrysene (SIM)	30.4	4.0	µg/L	50.0		60.8	40-140	3.62	20	
Dibenz(a,h)anthracene (SIM)	38.0	2.0	µg/L	50.0		76.0	40-140	3.48	20	
Fluoranthene (SIM)	33.5	10	µg/L	50.0		67.0	40-140	5.39	20	
Fluorene (SIM)	33.8	20	µg/L	50.0		67.7	40-140	7.93	20	
Indeno(1,2,3-cd)pyrene (SIM)	41.9	2.0	µg/L	50.0		83.8	40-140	3.60	20	‡
2-Methylnaphthalene (SIM)	32.7	20	µg/L	50.0		65.4	40-140	8.42	20	
Naphthalene (SIM)	28.9	20	µg/L	50.0		57.7	40-140	6.29	20	
Phenanthrene (SIM)	32.7	1.0	µg/L	50.0		65.4	40-140	5.66	20	
Pyrene (SIM)	31.3	20	µg/L	50.0		62.6	40-140	4.84	20	
Surrogate: Nitrobenzene-d5	*69.7*		µg/L	100		69.7	30-130			
Surrogate: 2-Fluorobiphenyl	*62.6*		µg/L	100		62.6	30-130			
Surrogate: p-Terphenyl-d14	*48.8*		µg/L	100		48.8	30-130			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B248111 - SW-846 3510C										
Blank (B248111-BLK1)				Prepared: 12/11/19 Analyzed: 12/12/19						
Aroclor-1016	ND	0.10	µg/L							
Aroclor-1016 [2C]	ND	0.10	µg/L							
Aroclor-1221	ND	0.10	µg/L							
Aroclor-1221 [2C]	ND	0.10	µg/L							
Aroclor-1232	ND	0.10	µg/L							
Aroclor-1232 [2C]	ND	0.10	µg/L							
Aroclor-1242	ND	0.10	µg/L							
Aroclor-1242 [2C]	ND	0.10	µg/L							
Aroclor-1248	ND	0.10	µg/L							
Aroclor-1248 [2C]	ND	0.10	µg/L							
Aroclor-1254	ND	0.10	µg/L							
Aroclor-1254 [2C]	ND	0.10	µg/L							
Aroclor-1260	ND	0.10	µg/L							
Aroclor-1260 [2C]	ND	0.10	µg/L							
Aroclor-1262	ND	0.10	µg/L							
Aroclor-1262 [2C]	ND	0.10	µg/L							
Aroclor-1268	ND	0.10	µg/L							
Aroclor-1268 [2C]	ND	0.10	µg/L							
Total PCB Aroclors	0.0		µg/L							
Surrogate: Decachlorobiphenyl	*1.88*		µg/L	2.00		94.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.77*		µg/L	2.00		88.4	30-150			
Surrogate: Tetrachloro-m-xylene	*1.73*		µg/L	2.00		86.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.73*		µg/L	2.00		86.4	30-150			
LCS (B248111-BS1)				Prepared: 12/11/19 Analyzed: 12/12/19						
Aroclor-1016	0.44	0.20	µg/L	0.500		87.7	40-140			
Aroclor-1016 [2C]	0.47	0.20	µg/L	0.500		93.4	40-140			
Aroclor-1254	ND	0.20	µg/L				40-140			
Aroclor-1254 [2C]	ND	0.20	µg/L				40-140			
Aroclor-1260	0.42	0.20	µg/L	0.500		83.7	40-140			
Aroclor-1260 [2C]	0.45	0.20	µg/L	0.500		89.2	40-140			
Surrogate: Decachlorobiphenyl	*1.77*		µg/L	2.00		88.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.76*		µg/L	2.00		88.1	30-150			
Surrogate: Tetrachloro-m-xylene	*1.55*		µg/L	2.00		77.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.64*		µg/L	2.00		81.9	30-150			
LCS Dup (B248111-BSD1)				Prepared: 12/11/19 Analyzed: 12/12/19						
Aroclor-1016	0.42	0.20	µg/L	0.500		83.5	40-140	4.91	20	
Aroclor-1016 [2C]	0.45	0.20	µg/L	0.500		90.2	40-140	3.51	20	
Aroclor-1254	ND	0.20	µg/L				40-140	NC	20	
Aroclor-1254 [2C]	ND	0.20	µg/L				40-140	NC	20	
Aroclor-1260	0.40	0.20	µg/L	0.500		79.9	40-140	4.62	20	
Aroclor-1260 [2C]	0.43	0.20	µg/L	0.500		86.4	40-140	3.15	20	
Surrogate: Decachlorobiphenyl	*1.70*		µg/L	2.00		85.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.72*		µg/L	2.00		86.2	30-150			
Surrogate: Tetrachloro-m-xylene	*1.51*		µg/L	2.00		75.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.61*		µg/L	2.00		80.6	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B248066 - SW-846 3540C										
Blank (B248066-BLK1)				Prepared: 12/10/19 Analyzed: 12/12/19						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Total PCB Aroclors	0.0		mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.184*		mg/Kg wet	0.200		92.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.184*		mg/Kg wet	0.200		91.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.162*		mg/Kg wet	0.200		80.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.164*		mg/Kg wet	0.200		81.9	30-150			
LCS (B248066-BS1)				Prepared: 12/10/19 Analyzed: 12/12/19						
Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		82.3	40-140			
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		88.6	40-140			
Aroclor-1254	ND	0.020	mg/Kg wet				40-140			
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet				40-140			
Aroclor-1260	0.18	0.020	mg/Kg wet	0.200		90.5	40-140			
Aroclor-1260 [2C]	0.19	0.020	mg/Kg wet	0.200		93.6	40-140			
Surrogate: Decachlorobiphenyl	*0.195*		mg/Kg wet	0.200		97.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.196*		mg/Kg wet	0.200		98.1	30-150			
Surrogate: Tetrachloro-m-xylene	*0.172*		mg/Kg wet	0.200		86.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.175*		mg/Kg wet	0.200		87.4	30-150			
LCS Dup (B248066-BSD1)				Prepared: 12/10/19 Analyzed: 12/12/19						
Aroclor-1016	0.15	0.020	mg/Kg wet	0.200		75.5	40-140	8.62	30	
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		83.3	40-140	6.21	30	
Aroclor-1254	ND	0.020	mg/Kg wet				40-140	NC	30	
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet				40-140	NC	30	
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		81.5	40-140	10.4	30	
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		86.9	40-140	7.47	30	
Surrogate: Decachlorobiphenyl	*0.176*		mg/Kg wet	0.200		87.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.182*		mg/Kg wet	0.200		91.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.161*		mg/Kg wet	0.200		80.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.168*		mg/Kg wet	0.200		83.8	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B247989 - SW-846 3546										
Blank (B247989-BLK1)				Prepared & Analyzed: 12/10/19						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: 2-Fluorobiphenyl	*1.92*		mg/Kg wet	3.33		57.7	50-150			
LCS (B247989-BS1)				Prepared & Analyzed: 12/10/19						
CT ETPH	24.6	10	mg/Kg wet	33.3		73.7	60-120			
Surrogate: 2-Fluorobiphenyl	*2.00*		mg/Kg wet	3.33		60.1	50-150			
LCS Dup (B247989-BSD1)				Prepared & Analyzed: 12/10/19						
CT ETPH	26.3	10	mg/Kg wet	33.3		79.0	60-120	6.87	30	
Surrogate: 2-Fluorobiphenyl	*2.10*		mg/Kg wet	3.33		62.9	50-150			
Batch B248113 - SW-846 3510C										
Blank (B248113-BLK1)				Prepared: 12/11/19 Analyzed: 12/12/19						
CT ETPH	ND	0.15	mg/L							
Surrogate: 2-Fluorobiphenyl	*0.0573*		mg/L	0.100		57.3	50-150			
LCS (B248113-BS1)				Prepared: 12/11/19 Analyzed: 12/12/19						
CT ETPH	0.721	0.15	mg/L	1.00		72.1	60-120			
Surrogate: 2-Fluorobiphenyl	*0.0628*		mg/L	0.100		62.8	50-150			
LCS Dup (B248113-BSD1)				Prepared: 12/11/19 Analyzed: 12/12/19						
CT ETPH	0.615	0.15	mg/L	1.00		61.5	60-120	15.8	30	
Surrogate: 2-Fluorobiphenyl	*0.0541*		mg/L	0.100		54.1	50-150			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B248059 - SW-846 3050B										
Blank (B248059-BLK1)				Prepared: 12/11/19 Analyzed: 12/12/19						
Arsenic	ND	1.7	mg/Kg wet							
Barium	ND	1.7	mg/Kg wet							
Cadmium	ND	0.17	mg/Kg wet							
Chromium	ND	0.33	mg/Kg wet							
Lead	ND	0.50	mg/Kg wet							
Selenium	ND	3.3	mg/Kg wet							
Silver	ND	0.33	mg/Kg wet							
LCS (B248059-BS1)				Prepared: 12/11/19 Analyzed: 12/12/19						
Arsenic	146	5.0	mg/Kg wet	143		102	83.2-117.5			
Barium	458	5.0	mg/Kg wet	415		110	82.7-117.6			
Cadmium	59.3	0.50	mg/Kg wet	56.2		106	82.9-117.3			
Chromium	107	1.0	mg/Kg wet	101		106	82.4-116.8			
Lead	136	1.5	mg/Kg wet	125		109	82.4-116.8			
Selenium	77.7	10	mg/Kg wet	77.9		99.7	79.3-120.7			
Silver	43.6	1.0	mg/Kg wet	34.3		**127** *	81-119.2			L-07
LCS (B248059-BS2) MRL Check				Prepared: 12/11/19 Analyzed: 12/12/19						
Lead	0.526	0.50	mg/Kg wet	0.496		106	80-120			
LCS Dup (B248059-BSD1)				Prepared: 12/11/19 Analyzed: 12/12/19						
Arsenic	137	4.9	mg/Kg wet	143		96.1	83.2-117.5	6.19	30	
Barium	433	4.9	mg/Kg wet	415		104	82.7-117.6	5.64	20	
Cadmium	55.2	0.49	mg/Kg wet	56.2		98.2	82.9-117.3	7.31	20	
Chromium	100	0.98	mg/Kg wet	101		99.1	82.4-116.8	6.40	30	
Lead	129	1.5	mg/Kg wet	125		103	82.4-116.8	5.37	30	
Selenium	74.6	9.8	mg/Kg wet	77.9		95.7	79.3-120.7	4.06	30	
Silver	40.8	0.98	mg/Kg wet	34.3		119	81-119.2	6.59	30	
Batch B248100 - SW-846 7471										
Blank (B248100-BLK1)				Prepared: 12/11/19 Analyzed: 12/12/19						
Mercury	ND	0.025	mg/Kg wet							
LCS (B248100-BS1)				Prepared: 12/11/19 Analyzed: 12/12/19						
Mercury	6.65	0.39	mg/Kg wet	7.61		87.3	72.7-127.3			
LCS Dup (B248100-BSD1)				Prepared: 12/11/19 Analyzed: 12/12/19						
Mercury	7.27	0.38	mg/Kg wet	7.61		95.5	72.7-127.3	8.91	20	
Batch B248101 - SW-846 7470A Prep										
Blank (B248101-BLK1)				Prepared & Analyzed: 12/11/19						
Mercury	ND	0.00010	mg/L							

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B248101 - SW-846 7470A Prep										
LCS (B248101-BS1)				Prepared & Analyzed: 12/11/19						
Mercury	0.00403	0.00010	mg/L	0.00400		101	80-120			
LCS Dup (B248101-BSD1)				Prepared & Analyzed: 12/11/19						
Mercury	0.00391	0.00010	mg/L	0.00400		97.8	80-120	2.87	20	
Batch B248147 - SW-846 3005A										
Blank (B248147-BLK1)				Prepared: 12/11/19 Analyzed: 12/12/19						
Arsenic	ND	0.80	µg/L							
Barium	ND	10	µg/L							
Cadmium	ND	0.20	µg/L							
Chromium	ND	1.0	µg/L							
Lead	ND	0.50	µg/L							
Selenium	ND	5.0	µg/L							
Silver	ND	0.20	µg/L							
LCS (B248147-BS1)				Prepared: 12/11/19 Analyzed: 12/12/19						
Arsenic	527	8.0	µg/L	500		105	80-120			
Barium	538	100	µg/L	500		108	80-120			
Cadmium	520	2.0	µg/L	500		104	80-120			
Chromium	528	10	µg/L	500		106	80-120			
Lead	530	5.0	µg/L	500		106	80-120			
Selenium	534	50	µg/L	500		107	80-120			
Silver	520	2.0	µg/L	500		104	80-120			
LCS Dup (B248147-BSD1)				Prepared: 12/11/19 Analyzed: 12/12/19						
Arsenic	482	8.0	µg/L	500		96.3	80-120	8.97	20	
Barium	477	100	µg/L	500		95.5	80-120	12.0	20	
Cadmium	480	2.0	µg/L	500		96.0	80-120	7.97	20	
Chromium	480	10	µg/L	500		95.9	80-120	9.56	20	
Lead	484	5.0	µg/L	500		96.7	80-120	9.22	20	
Selenium	487	50	µg/L	500		97.5	80-120	9.17	20	
Silver	475	2.0	µg/L	500		95.1	80-120	8.97	20	

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B248063 - SW-846 9045C										
Duplicate (B248063-DUP1)		**Source: 19L0326-02**		Prepared & Analyzed: 12/10/19						
pH	7.1		pH Units		7.0			1.10	6.96	
Batch B248180 - SM21-22 4500 H B										
LCS (B248180-BS1)				Prepared & Analyzed: 12/12/19						
pH	6.02		pH Units	6.00		100	90-110			
Duplicate (B248180-DUP1)		**Source: 19L0326-01**		Prepared & Analyzed: 12/12/19						
pH	7.0		pH Units		6.9			0.588	5	H-05
Batch B248220 - SW-846 9014										
Blank (B248220-BLK1)				Prepared: 12/12/19 Analyzed: 12/13/19						
Reactive Cyanide	ND	0.40	mg/Kg							
LCS (B248220-BS1)				Prepared: 12/12/19 Analyzed: 12/13/19						
Reactive Cyanide	8.9	0.40	mg/Kg	10.0		88.9	82.8-113			
Batch B248221 - SW-846 9030A										
Blank (B248221-BLK1)				Prepared: 12/12/19 Analyzed: 12/13/19						
Reactive Sulfide	ND	2.0	mg/Kg							
LCS (B248221-BS1)				Prepared: 12/12/19 Analyzed: 12/13/19						
Reactive Sulfide	14	2.0	mg/Kg	14.8		91.9	57.6-114			
Batch B248222 - SW-846 9014										
Blank (B248222-BLK1)				Prepared: 12/12/19 Analyzed: 12/13/19						
Reactive Cyanide	ND	0.40	mg/L							
LCS (B248222-BS1)				Prepared: 12/12/19 Analyzed: 12/13/19						
Reactive Cyanide	8.9	0.40	mg/L	10.0		88.9	82.8-113			
Batch B248224 - SW-846 9030A										
Blank (B248224-BLK1)				Prepared: 12/12/19 Analyzed: 12/13/19						
Reactive Sulfide	ND	2.0	mg/L							

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B248224 - SW-846 9030A										
LCS (B248224-BS1)				Prepared: 12/12/19 Analyzed: 12/13/19						
Reactive Sulfide	14	2.0	mg/L	14.8		91.9	57.6-114			
Batch B248269 - SW-846 1010A										
Blank (B248269-BLK1)				Prepared & Analyzed: 12/12/19						
Flashpoint	> 212 °F		°F							
LCS (B248269-BS1)				Prepared & Analyzed: 12/12/19						
Flashpoint	81		°F	81.0		99.5	98.8-101			
LCS Dup (B248269-BSD1)				Prepared & Analyzed: 12/12/19						
Flashpoint	81		°F	81.0		99.5	98.8-101	0.00	5	

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QUALITY CONTROL

TCLP - Metals Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B248239 - SW-846 3010A										
Blank (B248239-BLK1)				Prepared: 12/12/19 Analyzed: 12/13/19						
Arsenic	ND	0.050	mg/L							
Barium	ND	0.50	mg/L							
Cadmium	ND	0.010	mg/L							
Chromium	ND	0.050	mg/L							
Lead	ND	0.10	mg/L							
Selenium	ND	0.050	mg/L							
Silver	ND	0.050	mg/L							
LCS (B248239-BS1)				Prepared: 12/12/19 Analyzed: 12/13/19						
Arsenic	0.514	0.050	mg/L	0.500		103	80-120			
Barium	0.504	0.50	mg/L	0.500		101	80-120			
Cadmium	0.526	0.010	mg/L	0.500		105	80-120			
Chromium	0.494	0.050	mg/L	0.500		98.9	80-120			
Lead	0.504	0.10	mg/L	0.500		101	80-120			
Selenium	0.562	0.050	mg/L	0.500		112	80-120			
Silver	0.557	0.050	mg/L	0.500		111	80-120			
LCS Dup (B248239-BSD1)				Prepared: 12/12/19 Analyzed: 12/13/19						
Arsenic	0.513	0.050	mg/L	0.500		103	80-120	0.358	20	
Barium	0.498	0.50	mg/L	0.500		99.7	80-120	1.10	20	
Cadmium	0.519	0.010	mg/L	0.500		104	80-120	1.36	20	
Chromium	0.490	0.050	mg/L	0.500		97.9	80-120	0.952	20	
Lead	0.500	0.10	mg/L	0.500		100	80-120	0.630	20	
Selenium	0.561	0.050	mg/L	0.500		112	80-120	0.0749	20	
Silver	0.548	0.050	mg/L	0.500		110	80-120	1.68	20	
Batch B248247 - SW-846 7470A Prep										
Blank (B248247-BLK1)				Prepared & Analyzed: 12/12/19						
Mercury	ND	0.00010	mg/L							
LCS (B248247-BS1)				Prepared & Analyzed: 12/12/19						
Mercury	0.00392	0.00010	mg/L	0.00400		98.1	80-120			
LCS Dup (B248247-BSD1)				Prepared & Analyzed: 12/12/19						
Mercury	0.00392	0.00010	mg/L	0.00400		97.9	80-120	0.184	20	
Matrix Spike (B248247-MS1)		**Source: 19L0326-02**		Prepared & Analyzed: 12/12/19						
Mercury	0.00403	0.00010	mg/L	0.00400	0.0000776	98.8	75-125			

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

TRC-AOC-12N-SED-01

Lab Sample ID: 19L0326-02

Date(s) Analyzed: 12/12/2019 12/12/2019

Instrument ID (1): ECD1

Instrument ID (2): ECD1

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	-0.030	0.030	0.61	
	2	0.000	-0.030	0.030	0.38	46.5
Aroclor-1254	1	0.000	-0.030	0.030	0.42	
	2	0.000	-0.030	0.030	0.41	2.4
Aroclor-1260	1	0.000	-0.030	0.030	0.24	
	2	0.000	-0.030	0.030	0.23	4.3

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IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B248066-BS1
Date(s) Analyzed: 12/12/2019 12/12/2019
Instrument ID (1): ECD1
Instrument ID (2): ECD1
GC Column (1): ID: (mm)
GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.18	5.7
Aroclor-1260	1	0.000	-0.030	0.030	0.18	
	2	0.000	-0.030	0.030	0.19	5.4

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IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B248066-BSD1

Date(s) Analyzed: 12/12/2019 12/12/2019

Instrument ID (1): ECD1

Instrument ID (2): ECD1

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.17	12.5
Aroclor-1260	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.17	6.1

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IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B248111-BS1

Date(s) Analyzed: 12/12/2019 12/12/2019

Instrument ID (1): ECD1

Instrument ID (2): ECD1

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.44	
	2	0.000	0.000	0.000	0.47	6.6
Aroclor-1260	1	0.000	0.000	0.000	0.42	
	2	0.000	0.000	0.000	0.45	6.9

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B248111-BSD1

Date(s) Analyzed: 12/12/2019 12/12/2019

Instrument ID (1): ECD1

Instrument ID (2): ECD1

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.42	
	2	0.000	0.000	0.000	0.45	6.9
Aroclor-1260	1	0.000	0.000	0.000	0.40	
	2	0.000	0.000	0.000	0.43	7.2

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

E	Reported result is estimated. Value reported over verified calibration range.
H-05	Holding time was exceeded. pH analysis should be performed immediately at time of sampling. Nominal 15 minute holding time was exceeded.
L-03	Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
P-02	Sample RPD between primary and confirmatory analysis exceeded 40%. Per EPA method 8000, the lower value was reported due to obvious chromatographic interference on the column with the higher result.
RL-03	Elevated reporting limit based on lowest point in calibration. Requested reporting limit not met.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-20	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
CTDEP ETPH in Water	
CT ETPH	CT
SM21-22 4500 H B in Water	
pH	CT,MA,RI
SW-846 1030 in Soil	
Ignitability	NY,NH,CT,NC,ME,VA
SW-846 6010D in Soil	
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,AIHA,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
SW-846 6010D in Water	
Arsenic	NY,CT,NC,ME,NH,VA
Barium	NY,CT,ME,NC,NH,VA
Cadmium	NY,CT,ME,NC,NH,VA
Chromium	NY,CT,ME,NC,NH,VA
Lead	NY,CT,ME,NC,NH,VA
Selenium	CT,ME,NC,NH,NY,VA
Silver	CT,ME,NC,NH,NY,VA
SW-846 6020B in Water	
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,RI,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
SW-846 7470A in Water	
Mercury	CT,ME,NC,NH,NY,VA
Mercury	CT,NH,NY,NC,ME,VA
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA,PA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1221	CT,NH,NY,ME,NC,VA,PA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1232	CT,NH,NY,ME,NC,VA,PA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1242	CT,NH,NY,ME,NC,VA,PA

ANALYTICAL LABORATORY
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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Soil	
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1248	CT,NH,NY,ME,NC,VA,PA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1254	CT,NH,NY,ME,NC,VA,PA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1260	CT,NH,NY,ME,NC,VA,PA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1262	NY,NC,VA,PA
Aroclor-1262 [2C]	NY,NC,VA,PA
Aroclor-1268	NY,NC,VA,PA
Aroclor-1268 [2C]	NY,NC,VA,PA
SW-846 8082A in Water	
Aroclor-1016	CT,NH,NY,NC,ME,VA,PA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1221	CT,NH,NY,NC,ME,VA,PA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1232	CT,NH,NY,NC,ME,VA,PA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1242	CT,NH,NY,NC,ME,VA,PA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1248	CT,NH,NY,NC,ME,VA,PA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1254	CT,NH,NY,NC,ME,VA,PA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1260	CT,NH,NY,NC,ME,VA,PA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1262	NH,NY,NC,ME,VA,PA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA,PA
Aroclor-1268	NH,NY,NC,ME,VA,PA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA,PA
SW-846 8260C-D in Soil	
Acetone	CT,NH,NY,ME
Acrylonitrile	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C-D in Soil	
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
1,2-Dibromo-3-chloropropane (DBCP)	NY
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NH,NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	CT,NH,NY,ME
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl tert-Butyl Ether (MTBE)	NY
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
Naphthalene	NH,NY,ME
n-Propylbenzene	NH,NY
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
1,2,4-Trichlorobenzene	NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,4-Trimethylbenzene	CT,NH,NY,ME
1,3,5-Trimethylbenzene	CT,NH,NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C-D in Soil	
o-Xylene	CT,NH,NY,ME
Xylenes (total)	NY
SW-846 8260C-D in Water	
Acetone	CT,NH,NY,ME
Acrylonitrile	CT,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NY
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	NY,ME
sec-Butylbenzene	NY,ME
tert-Butylbenzene	NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	NY,ME
4-Chlorotoluene	NY,ME
1,2-Dibromo-3-chloropropane (DBCP)	NY
1,2-Dibromoethane (EDB)	NY
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
trans-1,4-Dichloro-2-butene	NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NH,NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	CT,NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	NY,ME

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C-D in Water	
p-Isopropyltoluene (p-Cymene)	CT,NH,NY,ME
Methyl tert-Butyl Ether (MTBE)	CT,NH,NY,ME
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,ME
Naphthalene	NH,NY,ME
n-Propylbenzene	CT,NH,NY,ME
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
1,2,3-Trichlorobenzene	NH,NY,ME
1,2,4-Trichlorobenzene	CT,NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NY
1,2,4-Trimethylbenzene	NY,ME
1,3,5-Trimethylbenzene	NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	NH,NY,ME
o-Xylene	NH,NY,ME
Xylenes (total)	CT,NY
SW-846 8270D-E in Soil	
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH
Aniline	NY,NH
Anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
4-Chloro-3-methylphenol	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
4-Chlorophenylphenylether	CT,NY,NH

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D-E in Soil	
Chrysene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	NY,NH
1,3-Dichlorobenzene	NY,NH
1,4-Dichlorobenzene	NY,NH
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
4,6-Dinitro-2-methylphenol	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
Fluoranthene	CT,NY,NH
Fluorene	NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachlorocyclopentadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH
2-Nitroaniline	CT,NY,NH
3-Nitroaniline	CT,NY,NH
4-Nitroaniline	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
N-Nitrosodi-n-propylamine	CT,NY,NH
Pentachloronitrobenzene	NY
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenol	CT,NY,NH
Pyrene	CT,NY,NH
Pyridine	CT,NY,NH
1,2,4,5-Tetrachlorobenzene	NY
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D-E in Water	
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH
Aniline	CT,NY
Anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
4-Chloro-3-methylphenol	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
4-Chlorophenylphenylether	CT,NY,NH
Chrysene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	NY
1,3-Dichlorobenzene	NY
1,4-Dichlorobenzene	NY
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
4,6-Dinitro-2-methylphenol	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
Fluoranthene	CT,NY,NH
Fluorene	NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachlorocyclopentadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylphenol	CT,NY,NH

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D-E in Water	
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH
2-Nitroaniline	CT,NY,NH
3-Nitroaniline	CT,NY,NH
4-Nitroaniline	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
N-Nitrosodi-n-propylamine	CT,NY,NH
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenol	CT,NY,NH
Pyrene	CT,NY,NH
Pyridine	CT,NY,NH
1,2,4,5-Tetrachlorobenzene	NY
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH
SW-846 9095B in Soil	
Free Liquid	NY

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2022
MA	Massachusetts DEP	M-MA100	06/30/2020
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2021
NY	New York State Department of Health	10899 NELAP	04/1/2020
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2020
RI	Rhode Island Department of Health	LAO00112	12/30/2019
NC	North Carolina Div. of Water Quality	652	12/31/2020
NJ	New Jersey DEP	MA007 NELAP	06/30/2020
FL	Florida Department of Health	E871027 NELAP	06/30/2020
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2020
ME	State of Maine	2011028	06/9/2021
VA	Commonwealth of Virginia	460217	12/14/2020
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2020
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2020
NC-DW	North Carolina Department of Health	25703	07/31/2020
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2020

1903026

http://www.contestlabs.com

Doc # 381 Rev 2_06262019

con-test ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 1

KKM

Company Name:	TRC
Address:	21 Griffin Rd N, Windsor, CT
Phone:	860-298-9692
Project Name:	English Station Parcel A
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	263951, 000028. 000001
Project Manager:	Carl Stopper
Con-Test Quote Name/Number:	B-20180911 English Station
Invoice Recipient:	Carl Stopper
Sampled By:	Matt Blumsten

Requested Turnaround Time

7-Day	☐	10-Day	☐
PFAS 10-Day (std)	☐	Due Date:	

Rush-Approval Required

1-Day	☐	3-Day	☒
2-Day	☐	4-Day	☐

Dissolved Metals Samples
- ○ Field Filtered
- ○ Lab to Filter

Orthophosphate Samples
- ○ Field Filtered
- ○ Lab to Filter

Data Delivery

Format: PDF ☒ EXCEL ☒
Other:
CLP Like Data Pkg Required: ☐
Email To: CStopper@trccompanies.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	COMP/GRAB	Matrix Code[1]	Conc Code	VIALS	GLASS	PLASTIC	BACTERIA	ENCORE	PCBs 8082 Soxhlet	ETPH	RCRA 8 Metals	VOCs	SVOCs	Reactive Cyanide/Sulfide	Ignitability	Paint Filter	Flash point	TCLP RCRA 8 metals	Corrosivity
01	TRC-AOC-12N-SW-01	12/10/19	0830	GRAB	SW	L	3	7	2			X	X	X	X	X	X			X		X
02	TRC-AOC-12N-SED-01	12/10/19	0835	GRAB	SED	L	3	3				X	X	X	X	X	X	X	X		X	X

[2] Preservation Code

Courier Use Only

Total Number Of:
VIALS ____
GLASS ____
PLASTIC ____
BACTERIA ____
ENCORE ____

Glassware in the fridge? Y / N
Glassware in freezer? Y / N
Prepackaged Cooler? Y / N

*Contest is not responsible for missing samples from prepacked coolers

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)
SW surface water
SED sediment

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

Relinquished by: (signature)	Date/Time: 12/10/19
Received by: (signature)	Date/Time: 12/10/19 10:40
Relinquished by: (signature)	Date/Time: 12/10/19 12:55
Received by: (signature)	Date/Time: 12/10/19 1255
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Client Comments:
CC results to: Shawn.Crosbie@uinet.com

Detection Limit Requirements
MA:
CT: CT RSRs
Other:

Special Requirements
- ☐ MA MCP Required
- MCP Certification Form Required
- ☒ CT RCP Required
- RCP Certification Form Required
- ☐ MA State DW Required
- PWSID #

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

NELAC and AIHA-LAP, LLC Accredited

Project Entity
- Government ☐
- Federal ☐
- City ☐
- Municipality ☐
- 21 J ☐
- Brownfield ☐
- MWRA ☐
- School ☐
- MBTA ☐
- WRTA ☐

Other
- ☐ Chromatogram
- ☐ AIHA-LAP,LLC

PCB ONLY
- ☒ Soxhlet
- ☐ Non Soxhlet

Comments:

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples______________

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Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client: TRC

Received By: UDA Date: 12/10/19 Time: 1255

How were the samples received? In Cooler: T No Cooler: ____ On Ice: T No Ice: ____
Direct from Sampling: ____ Ambient: ____ Melted Ice: ____

Were samples within Temperature? 2-6°C: T By Gun #: 5 Actual Temp - 5.4
By Blank #: ____ Actual Temp - ____

Was Custody Seal Intact? N/A Were Samples Tampered with? N/A

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client: T Analysis: T Sampler Name: T
Project: T ID's: T Collection Dates/Times: T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? ____

Are there Rushes? ~~F~~ T Who was notified? Ashly

Are there Short Holds? ~~F~~ T Who was notified? Katie

Is there enough Volume? T

Is there Headspace where applicable? F MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? X VOA 12/10/19 Acid: PH<2 Base: ____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	6	1 Liter Plastic		16 oz Amb.	
HCL-	5 - 3 VOA	500 mL Amb.		500 mL Plastic	1	8oz Amb/Clear	3
Meoh-	1	250 mL Amb.	1	250 mL Plastic	1	4oz Amb/Clear	
Bisulfate-		Flashpoint		Col./Bacteria		2oz Amb/Clear	
DI-		Other Glass		Other Plastic		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock		12/10/19 1255	

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

CT ETPH DISCRIMINATION CHECK

Data File Name	D1212006.D
Data File Path	C:\MSDCHEM\4\DATA\D121219\
Operator	RMW
Date Acquired	12/12/2019 11:42
Acq. Method File	EPH11D.M
Sample Name	ETPH 1500
Instrument Name	GCFID4

Name	Ret Time	Target Response	Average Response	*%D+/-20
C-9	1.65	7309560	8351852	12
C-10	2.29	7522656	8351852	10
C-12	3.22	7798783	8351852	7
C-14	3.94	8072841	8351852	3
C-16	4.55	8258709	8351852	1
C-18	5.10	8439216	8351852	-1
C-20	5.72	8594279	8351852	-3
C-22	6.48	8727702	8351852	-5
C-24	7.32	8833485	8351852	-6
C-26	8.13	8855722	8351852	-6
C-28	8.87	8841538	8351852	-6
C-30	9.55	8814964	8351852	-6
C-32	10.18	8529458	8351852	-2
C-34	10.78	8471195	8351852	-1
C-36	11.37	8207666	8351852	2

Samples

19L0326-01

*One compound allowed %D</=50%

C:\MSDCHEM\4\DATA\D121219.SEC\D1212091.D

CT ETPH DISCRIMINATION CHECK

Data File Name D1212091.D
Data File Path C:\MSDCHEM\4\DATA\D121219.SEC\
Operator RMW
Date Acquired 12/13/2019 2:11
Acq. Method File EPH11D.M
Sample Name ETPH 1500
Instrument Name GCFID4

Name	Ret Time	Target Response	Average Response	*%D+/-20
C-9	1.70	8901455	10130129	12
C-10	2.32	9241255	10130129	9
C-12	3.23	9624546	10130129	5
C-14	3.94	9966725	10130129	2
C-16	4.55	10202293	10130129	-1
C-18	5.09	10391591	10130129	-3
C-20	5.70	10521661	10130129	-4
C-22	6.45	10564131	10130129	-4
C-24	7.29	10599500	10130129	-5
C-26	8.09	10511102	10130129	-4
C-28	8.82	10462276	10130129	-3
C-30	9.50	10440481	10130129	-3
C-32	10.14	10206275	10130129	-1
C-34	10.73	10252465	10130129	-1
C-36	11.31	10066175	10130129	1

Samples
19L0326-02@100X

*One compound allowed %D</=50%

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: TRC Environmental Corporation - CT

Project Location: 510 Grand Ave, New Haven, CT

Project Number: 19L0326

Laboratory Sample ID(s):
19L0326-01 thru 19L0326-02

Sample Date(s):
12/10/2019

List RCP Methods Used:

CTDEP ETPH, SW-846 1311, SW-846 6010D, SW-846 6020B, SW-846 7470A, SW-846 7471B, SW-846 8082A, SW-846 8260C-D, SW-846 8270D-E

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☐ Yes ☑ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☐ Yes ☑ No
5B	Were these reporting limits met?	☐ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☐ Yes ☑ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

Tod E. Kopyscinski

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.

Authorized Signature: Tod Kopyscinski

Position: **Laboratory Director**

Printed Name: **Tod E. Kopyscinski**

Date: **12/13/19**

Name of Laboratory: **Con-Test Analytical Laboratory**

This certification form is to be used for RCP methods only.

<u>Situation #2 Station B Filled Platform</u>

<u>Solid Samples</u>

<u>Con-Test Report #20A0108</u>

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

January 8, 2020

Carl Stopper
TRC Environmental Corporation - CT
21 Griffin Road North
Windsor, CT 06095

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 263951.000028.000001
Laboratory Work Order Number: 20A0108

Enclosed are results of analyses for samples received by the laboratory on January 3, 2020. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kerry K. McGee
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

TRC Environmental Corporation - CT
21 Griffin Road North
Windsor, CT 06095
ATTN: Carl Stopper

REPORT DATE: 1/8/2020

PURCHASE ORDER NUMBER: 147856

PROJECT NUMBER: 263951.000028.000001

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 20A0108

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
TRC-AOC-12N-SO-01 (0-0.5)	20A0108-01	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 1030	
				SW-846 6010D	
				SW-846 7470A	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 8260C-D	
				SW-846 8270D-E	
				SW-846 9014	
				SW-846 9030A	
				SW-846 9045C	
				SW-846 9095B	
TRC-AOC-12N-SO-02 (5)	20A0108-02	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 1030	
				SW-846 6010D	
				SW-846 7470A	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 8260C-D	
				SW-846 8270D-E	
				SW-846 9014	
				SW-846 9030A	
				SW-846 9045C	
				SW-846 9095B	
TRC-AOC-12N-SO-03 (9)	20A0108-03	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 1030	
				SW-846 6010D	
				SW-846 7470A	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 8260C-D	
				SW-846 8270D-E	
				SW-846 9014	
				SW-846 9030A	
				SW-846 9045C	
				SW-846 9095B	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 6010, only RCRA 8 metals were requested and reported.

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CTDEP ETPH

Qualifications:

MS-07A

Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possiblity of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:

CT ETPH

20A0108-03[TRC-AOC-12N-SO-03 (9)], B249428-MS1, B249428-MSD1

S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

2-Fluorobiphenyl

20A0108-02[TRC-AOC-12N-SO-02 (5)], 20A0108-03[TRC-AOC-12N-SO-03 (9)]

SW-846 7471B

Qualifications:

R-05

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:

Mercury

B249447-BSD1

SW-846 8082A

Qualifications:

S-24

Surrogate recovery is biased high due to the presence of Aroclor 1268 in the sample. Aroclor 1268 contains decachlorobiphenyl.

Analyte & Samples(s) Qualified:

Decachlorobiphenyl [2C]

20A0108-02[TRC-AOC-12N-SO-02 (5)]

SW-846 8260C-D

Qualifications:

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:

Chloromethane

20A0108-01[TRC-AOC-12N-SO-01 (0-0.5)], 20A0108-02[TRC-AOC-12N-SO-02 (5)], 20A0108-03[TRC-AOC-12N-SO-03 (9)], B249438-BLK1, B249438-BS1, S044384-CCV1

V-16

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:

Tetrahydrofuran

20A0108-01[TRC-AOC-12N-SO-01 (0-0.5)], 20A0108-02[TRC-AOC-12N-SO-02 (5)], 20A0108-03[TRC-AOC-12N-SO-03 (9)], B249438-BLK1, B249438-BS1

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:

Bromomethane

20A0108-01[TRC-AOC-12N-SO-01 (0-0.5)], 20A0108-02[TRC-AOC-12N-SO-02 (5)], 20A0108-03[TRC-AOC-12N-SO-03 (9)], B249438-BLK1, B249438-BS1, S044384-CCV1

SW-846 8270D-E

Qualifications:

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E

Reported result is estimated. Value reported over verified calibration range.

Analyte & Samples(s) Qualified:

Anthracene
20A0108-02[TRC-AOC-12N-SO-02 (5)], 20A0108-03[TRC-AOC-12N-SO-03 (9)]

Benzo(a)anthracene
20A0108-02[TRC-AOC-12N-SO-02 (5)], 20A0108-03[TRC-AOC-12N-SO-03 (9)]

Benzo(a)pyrene
20A0108-02[TRC-AOC-12N-SO-02 (5)], 20A0108-03[TRC-AOC-12N-SO-03 (9)]

Benzo(b)fluoranthene
20A0108-02[TRC-AOC-12N-SO-02 (5)], 20A0108-03[TRC-AOC-12N-SO-03 (9)]

Benzo(g,h,i)perylene
20A0108-02[TRC-AOC-12N-SO-02 (5)], 20A0108-03[TRC-AOC-12N-SO-03 (9)]

Benzo(k)fluoranthene
20A0108-02[TRC-AOC-12N-SO-02 (5)], 20A0108-03[TRC-AOC-12N-SO-03 (9)]

Chrysene
20A0108-02[TRC-AOC-12N-SO-02 (5)], 20A0108-03[TRC-AOC-12N-SO-03 (9)]

Fluoranthene
20A0108-02[TRC-AOC-12N-SO-02 (5)], 20A0108-03[TRC-AOC-12N-SO-03 (9)]

Indeno(1,2,3-cd)pyrene
20A0108-02[TRC-AOC-12N-SO-02 (5)], 20A0108-03[TRC-AOC-12N-SO-03 (9)]

Phenanthrene
20A0108-02[TRC-AOC-12N-SO-02 (5)], 20A0108-03[TRC-AOC-12N-SO-03 (9)]

Pyrene
20A0108-02[TRC-AOC-12N-SO-02 (5)], 20A0108-03[TRC-AOC-12N-SO-03 (9)]

V-06

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.

Analyte & Samples(s) Qualified:

Bis(2-chloroisopropyl)ether
B249431-BS1, B249431-BSD1, S044428-CCV1

V-20

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

Bis(2-chloroisopropyl)ether
20A0108-01[TRC-AOC-12N-SO-01 (0-0.5)], 20A0108-02[TRC-AOC-12N-SO-02 (5)], 20A0108-03[TRC-AOC-12N-SO-03 (9)], B249431-BLK1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa Worthington

Lisa A. Worthington
Technical Representative

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT   Sample Description: Work Order: 20A0108

Date Received: 1/3/2020

Field Sample #: TRC-AOC-12N-SO-01 (0-0.5)   Sampled: 1/3/2020 10:15

Sample ID: 20A0108-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
Acrylonitrile	ND	0.0062	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
Benzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
Bromobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
Bromodichloromethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
Bromoform	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
Bromomethane	ND	0.010	mg/Kg dry	1	V-34	SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
2-Butanone (MEK)	ND	0.041	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
n-Butylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
sec-Butylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
tert-Butylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
Carbon Disulfide	ND	0.0062	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
Carbon Tetrachloride	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
Chlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
Chlorodibromomethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
Chloroethane	ND	0.021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
Chloroform	ND	0.0041	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
Chloromethane	ND	0.010	mg/Kg dry	1	V-05	SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
2-Chlorotoluene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
4-Chlorotoluene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
Dibromomethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
1,2-Dichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
1,3-Dichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
1,4-Dichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
trans-1,4-Dichloro-2-butene	ND	0.0041	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
1,1-Dichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
1,2-Dichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
1,1-Dichloroethylene	ND	0.0041	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
cis-1,2-Dichloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
trans-1,2-Dichloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
1,2-Dichloropropane	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
1,3-Dichloropropane	ND	0.0010	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
2,2-Dichloropropane	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
1,1-Dichloropropene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
Ethylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
Hexachlorobutadiene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
2-Hexanone (MBK)	ND	0.021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
Isopropylbenzene (Cumene)	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF

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Project Location: 510 Grand Ave., New Haven, CT   Sample Description: Work Order: 20A0108

Date Received: 1/3/2020

Field Sample #: TRC-AOC-12N-SO-01 (0-0.5)   Sampled: 1/3/2020 10:15

Sample ID: 20A0108-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0041	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
Methylene Chloride	ND	0.021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
Naphthalene	ND	0.0041	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
n-Propylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
Styrene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
1,1,1,2-Tetrachloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
Tetrachloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
Tetrahydrofuran	ND	0.010	mg/Kg dry	1	V-16	SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
Toluene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
1,2,3-Trichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
1,2,4-Trichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
1,1,1-Trichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
1,1,2-Trichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
Trichloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
1,2,3-Trichloropropane	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
1,2,4-Trimethylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
1,3,5-Trimethylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
Vinyl Chloride	ND	0.010	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
m+p Xylene	ND	0.0041	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
o-Xylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF
Xylenes (total)	ND	0.0062	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 6:43	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	Date/Time Analyzed
1,2-Dichloroethane-d4	90.1	70-130		1/6/20 6:43
Toluene-d8	99.0	70-130		1/6/20 6:43
4-Bromofluorobenzene	102	70-130		1/6/20 6:43

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 20A0108

Date Received: 1/3/2020

Field Sample #: TRC-AOC-12N-SO-01 (0-0.5) Sampled: 1/3/2020 10:15

Sample ID: 20A0108-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Aniline	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Bis(2-chloroethoxy)methane	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Bis(2-chloroethyl)ether	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Bis(2-chloroisopropyl)ether	ND	0.36	mg/Kg dry	1	V-20	SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Bis(2-Ethylhexyl)phthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
4-Bromophenylphenylether	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Butylbenzylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Carbazole	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
4-Chloroaniline	ND	0.70	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
4-Chloro-3-methylphenol	ND	0.70	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
2-Chloronaphthalene	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
2-Chlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
4-Chlorophenylphenylether	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Dibenzofuran	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Di-n-butylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
3,3-Dichlorobenzidine	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
2,4-Dichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Diethylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
2,4-Dimethylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Dimethylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
4,6-Dinitro-2-methylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
2,4-Dinitrophenol	ND	0.70	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
2,4-Dinitrotoluene	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
2,6-Dinitrotoluene	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Di-n-octylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Hexachlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Hexachlorobutadiene	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Hexachlorocyclopentadiene	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Hexachloroethane	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Isophorone	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB

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Project Location: 510 Grand Ave., New Haven, CT   Sample Description: Work Order: 20A0108

Date Received: 1/3/2020

Field Sample #: TRC-AOC-12N-SO-01 (0-0.5)   Sampled: 1/3/2020 10:15

Sample ID: 20A0108-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
3/4-Methylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
2-Nitroaniline	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
3-Nitroaniline	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
4-Nitroaniline	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Nitrobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
2-Nitrophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
4-Nitrophenol	ND	0.70	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
N-Nitrosodiphenylamine/Diphenylamine	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
N-Nitrosodi-n-propylamine	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Pentachloronitrobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Pentachlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Phenol	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
Pyridine	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
1,2,4,5-Tetrachlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
1,2,4-Trichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
2,4,5-Trichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB
2,4,6-Trichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:03	KLB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	84.0	30-130		1/6/20 14:03
Phenol-d6	88.3	30-130		1/6/20 14:03
Nitrobenzene-d5	82.0	30-130		1/6/20 14:03
2-Fluorobiphenyl	113	30-130		1/6/20 14:03
2,4,6-Tribromophenol	96.7	30-130		1/6/20 14:03
p-Terphenyl-d14	98.1	30-130		1/6/20 14:03

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Project Location: 510 Grand Ave., New Haven, CT   Sample Description: Work Order: 20A0108

Date Received: 1/3/2020

Field Sample #: TRC-AOC-12N-SO-01 (0-0.5)   Sampled: 1/3/2020 10:15

Sample ID: 20A0108-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.080	mg/Kg dry	4		SW-846 8082A	1/4/20	1/7/20 14:22	JMB
Aroclor-1221 [1]	ND	0.080	mg/Kg dry	4		SW-846 8082A	1/4/20	1/7/20 14:22	JMB
Aroclor-1232 [1]	ND	0.080	mg/Kg dry	4		SW-846 8082A	1/4/20	1/7/20 14:22	JMB
Aroclor-1242 [1]	ND	0.080	mg/Kg dry	4		SW-846 8082A	1/4/20	1/7/20 14:22	JMB
Aroclor-1248 [1]	ND	0.080	mg/Kg dry	4		SW-846 8082A	1/4/20	1/7/20 14:22	JMB
Aroclor-1254 [1]	ND	0.080	mg/Kg dry	4		SW-846 8082A	1/4/20	1/7/20 14:22	JMB
Aroclor-1260 [1]	ND	0.080	mg/Kg dry	4		SW-846 8082A	1/4/20	1/7/20 14:22	JMB
Aroclor-1262 [1]	ND	0.080	mg/Kg dry	4		SW-846 8082A	1/4/20	1/7/20 14:22	JMB
Aroclor-1268 [1]	ND	0.080	mg/Kg dry	4		SW-846 8082A	1/4/20	1/7/20 14:22	JMB
Total PCB Aroclors [1]	0.0		mg/Kg dry	4		SW-846 8082A	1/4/20	1/7/20 14:22	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	Analyzed
Decachlorobiphenyl [1]	92.1	30-150		1/7/20 14:22
Decachlorobiphenyl [2]	92.8	30-150		1/7/20 14:22
Tetrachloro-m-xylene [1]	88.3	30-150		1/7/20 14:22
Tetrachloro-m-xylene [2]	90.5	30-150		1/7/20 14:22

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Project Location: 510 Grand Ave., New Haven, CT   Sample Description: Work Order: 20A0108

Date Received: 1/3/2020

Field Sample #: TRC-AOC-12N-SO-01 (0-0.5)   Sampled: 1/3/2020 10:15

Sample ID: 20A0108-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	10	mg/Kg dry	1		CTDEP ETPH	1/5/20	1/6/20 23:40	RDD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorobiphenyl	73.2	50-150		1/6/20 23:40

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Project Location: 510 Grand Ave., New Haven, CT   Sample Description: Work Order: 20A0108

Date Received: 1/3/2020

Field Sample #: TRC-AOC-12N-SO-01 (0-0.5)   Sampled: 1/3/2020 10:15

Sample ID: 20A0108-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	1.7	mg/Kg dry	1		SW-846 6010D	1/6/20	1/7/20 17:34	TBC
Barium	24	1.7	mg/Kg dry	1		SW-846 6010D	1/6/20	1/7/20 17:34	TBC
Cadmium	ND	0.17	mg/Kg dry	1		SW-846 6010D	1/6/20	1/7/20 17:34	TBC
Chromium	4.7	0.34	mg/Kg dry	1		SW-846 6010D	1/6/20	1/7/20 17:34	TBC
Lead	3.7	0.52	mg/Kg dry	1		SW-846 6010D	1/6/20	1/7/20 17:34	TBC
Mercury	ND	0.027	mg/Kg dry	1		SW-846 7471B	1/6/20	1/7/20 11:18	CJV
Selenium	ND	3.4	mg/Kg dry	1		SW-846 6010D	1/6/20	1/7/20 17:34	TBC
Silver	ND	0.34	mg/Kg dry	1		SW-846 6010D	1/6/20	1/7/20 17:34	TBC

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Project Location: 510 Grand Ave., New Haven, CT   Sample Description: Work Order: 20A0108

Date Received: 1/3/2020

Field Sample #: TRC-AOC-12N-SO-01 (0-0.5)   Sampled: 1/3/2020 10:15

Sample ID: 20A0108-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.8		% Wt	1		SM 2540G	1/4/20	1/5/20 9:04	AVF
Free Liquid	Absent		present/absent	1		SW-846 9095B	1/7/20	1/7/20 7:20	LL
Ignitability	Absent		present/absent	1		SW-846 1030	1/7/20	1/7/20 12:30	DJM
pH @22.9°C	8.9		pH Units	1		SW-846 9045C	1/3/20	1/3/20 19:25	KMV
Reactive Cyanide	ND	4.0	mg/Kg	1		SW-846 9014	1/6/20	1/8/20 12:00	DJM
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	1/6/20	1/8/20 11:30	DJM

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Project Location: 510 Grand Ave., New Haven, CT   Sample Description: Work Order: 20A0108

Date Received: 1/3/2020

Field Sample #: TRC-AOC-12N-SO-01 (0-0.5)   Sampled: 1/3/2020 10:15

Sample ID: 20A0108-01

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	0.056	mg/L	1		SW-846 6010D	1/7/20	1/7/20 16:36	MJH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	1/7/20	1/8/20 10:22	CJV
Barium	ND	0.56	mg/L	1		SW-846 6010D	1/7/20	1/7/20 16:36	MJH
Cadmium	ND	0.011	mg/L	1		SW-846 6010D	1/7/20	1/7/20 16:36	MJH
Chromium	ND	0.056	mg/L	1		SW-846 6010D	1/7/20	1/7/20 16:36	MJH
Lead	ND	0.11	mg/L	1		SW-846 6010D	1/7/20	1/7/20 16:36	MJH
Selenium	ND	0.056	mg/L	1		SW-846 6010D	1/7/20	1/7/20 16:36	MJH
Silver	ND	0.056	mg/L	1		SW-846 6010D	1/7/20	1/7/20 16:36	MJH

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Project Location: 510 Grand Ave., New Haven, CT   Sample Description: Work Order: 20A0108

Date Received: 1/3/2020

Field Sample #: TRC-AOC-12N-SO-02 (5)   Sampled: 1/3/2020 10:20

Sample ID: 20A0108-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.14	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
Acrylonitrile	ND	0.0085	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
Benzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
Bromobenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
Bromodichloromethane	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
Bromoform	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
Bromomethane	ND	0.014	mg/Kg dry	1	V-34	SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
2-Butanone (MEK)	ND	0.056	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
n-Butylbenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
sec-Butylbenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
tert-Butylbenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
Carbon Disulfide	ND	0.0085	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
Carbon Tetrachloride	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
Chlorobenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
Chlorodibromomethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
Chloroethane	ND	0.028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
Chloroform	ND	0.0056	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
Chloromethane	ND	0.014	mg/Kg dry	1	V-05	SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
2-Chlorotoluene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
4-Chlorotoluene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
1,2-Dibromoethane (EDB)	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
Dibromomethane	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
1,2-Dichlorobenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
1,3-Dichlorobenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
1,4-Dichlorobenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
trans-1,4-Dichloro-2-butene	ND	0.0056	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
1,1-Dichloroethane	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
1,2-Dichloroethane	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
1,1-Dichloroethylene	ND	0.0056	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
cis-1,2-Dichloroethylene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
trans-1,2-Dichloroethylene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
1,2-Dichloropropane	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
1,3-Dichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
2,2-Dichloropropane	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
1,1-Dichloropropene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
cis-1,3-Dichloropropene	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
trans-1,3-Dichloropropene	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
Ethylbenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
Hexachlorobutadiene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
2-Hexanone (MBK)	ND	0.028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
Isopropylbenzene (Cumene)	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF

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Project Location: 510 Grand Ave., New Haven, CT   Sample Description: Work Order: 20A0108

Date Received: 1/3/2020

Field Sample #: TRC-AOC-12N-SO-02 (5)   Sampled: 1/3/2020 10:20

Sample ID: 20A0108-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0056	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
Methylene Chloride	ND	0.028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
Naphthalene	ND	0.0056	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
n-Propylbenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
Styrene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
1,1,1,2-Tetrachloroethane	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
1,1,2,2-Tetrachloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
Tetrachloroethylene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
Tetrahydrofuran	ND	0.014	mg/Kg dry	1	V-16	SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
Toluene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
1,2,3-Trichlorobenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
1,2,4-Trichlorobenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
1,1,1-Trichloroethane	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
1,1,2-Trichloroethane	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
Trichloroethylene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
Trichlorofluoromethane (Freon 11)	ND	0.014	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
1,2,3-Trichloropropane	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.014	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
1,2,4-Trimethylbenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
1,3,5-Trimethylbenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
Vinyl Chloride	ND	0.014	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
m+p Xylene	ND	0.0056	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
o-Xylene	ND	0.0028	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF
Xylenes (total)	ND	0.0085	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:10	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	Analyzed
1,2-Dichloroethane-d4	92.5	70-130		1/6/20 7:10
Toluene-d8	98.4	70-130		1/6/20 7:10
4-Bromofluorobenzene	100	70-130		1/6/20 7:10

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT   Sample Description: Work Order: 20A0108

Date Received: 1/3/2020

Field Sample #: TRC-AOC-12N-SO-02 (5)   Sampled: 1/3/2020 10:20

Sample ID: 20A0108-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	1.6	0.19	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Acenaphthylene	0.71	0.19	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Aniline	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Anthracene	5.7	0.19	mg/Kg dry	1	E	SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Anthracene	4.6	1.9	mg/Kg dry	10		SW-846 8270D-E	1/5/20	1/6/20 17:55	KLB
Benzo(a)anthracene	15	0.19	mg/Kg dry	1	E	SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Benzo(a)anthracene	15	1.9	mg/Kg dry	10		SW-846 8270D-E	1/5/20	1/6/20 17:55	KLB
Benzo(a)pyrene	14	0.19	mg/Kg dry	1	E	SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Benzo(a)pyrene	12	1.9	mg/Kg dry	10		SW-846 8270D-E	1/5/20	1/6/20 17:55	KLB
Benzo(b)fluoranthene	18	0.19	mg/Kg dry	1	E	SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Benzo(b)fluoranthene	14	1.9	mg/Kg dry	10		SW-846 8270D-E	1/5/20	1/6/20 17:55	KLB
Benzo(g,h,i)perylene	7.9	0.19	mg/Kg dry	1	E	SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Benzo(g,h,i)perylene	5.9	1.9	mg/Kg dry	10		SW-846 8270D-E	1/5/20	1/6/20 17:55	KLB
Benzo(k)fluoranthene	6.2	0.19	mg/Kg dry	1	E	SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Benzo(k)fluoranthene	5.4	1.9	mg/Kg dry	10		SW-846 8270D-E	1/5/20	1/6/20 17:55	KLB
Bis(2-chloroethoxy)methane	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Bis(2-chloroethyl)ether	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Bis(2-chloroisopropyl)ether	ND	0.38	mg/Kg dry	1	V-20	SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Bis(2-Ethylhexyl)phthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
4-Bromophenylphenylether	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Butylbenzylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Carbazole	2.2	0.19	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
4-Chloroaniline	ND	0.74	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
4-Chloro-3-methylphenol	ND	0.74	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
2-Chloronaphthalene	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
2-Chlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
4-Chlorophenylphenylether	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Chrysene	15	0.19	mg/Kg dry	1	E	SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Chrysene	14	1.9	mg/Kg dry	10		SW-846 8270D-E	1/5/20	1/6/20 17:55	KLB
Dibenz(a,h)anthracene	2.2	0.19	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Dibenzofuran	1.4	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Di-n-butylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
3,3-Dichlorobenzidine	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
2,4-Dichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Diethylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
2,4-Dimethylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Dimethylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
4,6-Dinitro-2-methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
2,4-Dinitrophenol	ND	0.74	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
2,4-Dinitrotoluene	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
2,6-Dinitrotoluene	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Di-n-octylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Fluoranthene	37	0.19	mg/Kg dry	1	E	SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Fluoranthene	32	1.9	mg/Kg dry	10		SW-846 8270D-E	1/5/20	1/6/20 17:55	KLB

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 20A0108

Date Received: 1/3/2020

Field Sample #: TRC-AOC-12N-SO-02 (5) Sampled: 1/3/2020 10:20

Sample ID: 20A0108-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Fluorene	1.7	0.19	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Hexachlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Hexachlorobutadiene	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Hexachlorocyclopentadiene	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Hexachloroethane	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Indeno(1,2,3-cd)pyrene	10	0.19	mg/Kg dry	1	E	SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Indeno(1,2,3-cd)pyrene	8.1	1.9	mg/Kg dry	10		SW-846 8270D-E	1/5/20	1/6/20 17:55	KLB
Isophorone	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
2-Methylnaphthalene	0.83	0.19	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
2-Methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
3/4-Methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Naphthalene	1.1	0.19	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
2-Nitroaniline	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
3-Nitroaniline	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
4-Nitroaniline	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Nitrobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
2-Nitrophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
4-Nitrophenol	ND	0.74	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
N-Nitrosodiphenylamine/Diphenylamine	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
N-Nitrosodi-n-propylamine	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Pentachloronitrobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Pentachlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Phenanthrene	28	0.19	mg/Kg dry	1	E	SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Phenanthrene	25	1.9	mg/Kg dry	10		SW-846 8270D-E	1/5/20	1/6/20 17:55	KLB
Phenol	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Pyrene	27	0.19	mg/Kg dry	1	E	SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
Pyrene	31	1.9	mg/Kg dry	10		SW-846 8270D-E	1/5/20	1/6/20 17:55	KLB
Pyridine	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
1,2,4,5-Tetrachlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
1,2,4-Trichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
2,4,5-Trichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB
2,4,6-Trichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:29	KLB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	64.7	30-130		1/6/20 14:29
2-Fluorophenol	55.4	30-130		1/6/20 17:55
Phenol-d6	67.6	30-130		1/6/20 14:29
Phenol-d6	57.7	30-130		1/6/20 17:55
Nitrobenzene-d5	64.3	30-130		1/6/20 14:29
Nitrobenzene-d5	57.8	30-130		1/6/20 17:55
2-Fluorobiphenyl	83.9	30-130		1/6/20 14:29
2-Fluorobiphenyl	72.8	30-130		1/6/20 17:55
2,4,6-Tribromophenol	67.0	30-130		1/6/20 14:29
2,4,6-Tribromophenol	51.9	30-130		1/6/20 17:55
p-Terphenyl-d14	60.9	30-130		1/6/20 14:29
p-Terphenyl-d14	73.8	30-130		1/6/20 17:55

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT   Sample Description: Work Order: 20A0108

Date Received: 1/3/2020

Field Sample #: TRC-AOC-12N-SO-02 (5)   Sampled: 1/3/2020 10:20

Sample ID: 20A0108-02

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	1/4/20	1/7/20 14:35	JMB
Aroclor-1221 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	1/4/20	1/7/20 14:35	JMB
Aroclor-1232 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	1/4/20	1/7/20 14:35	JMB
Aroclor-1242 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	1/4/20	1/7/20 14:35	JMB
Aroclor-1248 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	1/4/20	1/7/20 14:35	JMB
Aroclor-1254 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	1/4/20	1/7/20 14:35	JMB
Aroclor-1260 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	1/4/20	1/7/20 14:35	JMB
Aroclor-1262 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	1/4/20	1/7/20 14:35	JMB
Aroclor-1268 [2]	0.11	0.089	mg/Kg dry	4		SW-846 8082A	1/4/20	1/7/20 14:35	JMB
Total PCB Aroclors [1]	0.11		mg/Kg dry	4		SW-846 8082A	1/4/20	1/7/20 14:35	JMB

Surrogates	% Recovery		Recovery Limits	Flag/Qual	Date/Time Analyzed
Decachlorobiphenyl [1]	79.1		30-150		1/7/20 14:35
Decachlorobiphenyl [2]	**161**	*	30-150	S-24	1/7/20 14:35
Tetrachloro-m-xylene [1]	77.8		30-150		1/7/20 14:35
Tetrachloro-m-xylene [2]	76.9		30-150		1/7/20 14:35

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Project Location: 510 Grand Ave., New Haven, CT   Sample Description: Work Order: 20A0108

Date Received: 1/3/2020

Field Sample #: TRC-AOC-12N-SO-02 (5)   Sampled: 1/3/2020 10:20

Sample ID: 20A0108-02

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	1700	220	mg/Kg dry	20		CTDEP ETPH	1/5/20	1/7/20 2:02	RDD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorobiphenyl	*	50-150	S-01	1/7/20 2:02

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT   Sample Description: Work Order: 20A0108

Date Received: 1/3/2020

Field Sample #: TRC-AOC-12N-SO-02 (5)   Sampled: 1/3/2020 10:20

Sample ID: 20A0108-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	22	1.8	mg/Kg dry	1		SW-846 6010D	1/6/20	1/7/20 17:40	TBC
Barium	210	1.8	mg/Kg dry	1		SW-846 6010D	1/6/20	1/7/20 17:40	TBC
Cadmium	2.7	0.18	mg/Kg dry	1		SW-846 6010D	1/6/20	1/7/20 17:40	TBC
Chromium	8.3	0.37	mg/Kg dry	1		SW-846 6010D	1/6/20	1/7/20 17:40	TBC
Lead	510	0.55	mg/Kg dry	1		SW-846 6010D	1/6/20	1/7/20 17:40	TBC
Mercury	0.12	0.029	mg/Kg dry	1		SW-846 7471B	1/6/20	1/7/20 11:20	CJV
Selenium	ND	3.7	mg/Kg dry	1		SW-846 6010D	1/6/20	1/7/20 17:40	TBC
Silver	ND	0.37	mg/Kg dry	1		SW-846 6010D	1/6/20	1/7/20 17:40	TBC

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT   Sample Description: Work Order: 20A0108

Date Received: 1/3/2020

Field Sample #: TRC-AOC-12N-SO-02 (5)   Sampled: 1/3/2020 10:20

Sample ID: 20A0108-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.7		% Wt	1		SM 2540G	1/4/20	1/5/20 9:04	AVF
Free Liquid	Absent		present/absent	1		SW-846 9095B	1/7/20	1/7/20 7:20	LL
Ignitability	Absent		present/absent	1		SW-846 1030	1/7/20	1/7/20 12:30	DJM
pH @22.6°C	9.1		pH Units	1		SW-846 9045C	1/3/20	1/3/20 19:25	KMV
Reactive Cyanide	ND	4.0	mg/Kg	1		SW-846 9014	1/6/20	1/8/20 12:00	DJM
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	1/6/20	1/8/20 11:30	DJM

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 20A0108

Date Received: 1/3/2020

Field Sample #: TRC-AOC-12N-SO-02 (5) Sampled: 1/3/2020 10:20

Sample ID: 20A0108-02

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	0.056	mg/L	1		SW-846 6010D	1/7/20	1/7/20 16:43	MJH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	1/7/20	1/8/20 10:24	CJV
Barium	0.63	0.56	mg/L	1		SW-846 6010D	1/7/20	1/7/20 16:43	MJH
Cadmium	ND	0.011	mg/L	1		SW-846 6010D	1/7/20	1/7/20 16:43	MJH
Chromium	ND	0.056	mg/L	1		SW-846 6010D	1/7/20	1/7/20 16:43	MJH
Lead	0.16	0.11	mg/L	1		SW-846 6010D	1/7/20	1/7/20 16:43	MJH
Selenium	ND	0.056	mg/L	1		SW-846 6010D	1/7/20	1/7/20 16:43	MJH
Silver	ND	0.056	mg/L	1		SW-846 6010D	1/7/20	1/7/20 16:43	MJH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 20A0108

Date Received: 1/3/2020

Field Sample #: TRC-AOC-12N-SO-03 (9) Sampled: 1/3/2020 10:25

Sample ID: 20A0108-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.13	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
Acrylonitrile	ND	0.0081	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
Benzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
Bromobenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
Bromodichloromethane	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
Bromoform	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
Bromomethane	ND	0.013	mg/Kg dry	1	V-34	SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
2-Butanone (MEK)	ND	0.054	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
n-Butylbenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
sec-Butylbenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
tert-Butylbenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
Carbon Disulfide	ND	0.0081	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
Carbon Tetrachloride	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
Chlorobenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
Chlorodibromomethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
Chloroethane	ND	0.027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
Chloroform	ND	0.0054	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
Chloromethane	ND	0.013	mg/Kg dry	1	V-05	SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
2-Chlorotoluene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
4-Chlorotoluene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
1,2-Dibromoethane (EDB)	ND	0.0013	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
Dibromomethane	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
1,2-Dichlorobenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
1,3-Dichlorobenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
1,4-Dichlorobenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
trans-1,4-Dichloro-2-butene	ND	0.0054	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
1,1-Dichloroethane	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
1,2-Dichloroethane	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
1,1-Dichloroethylene	ND	0.0054	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
cis-1,2-Dichloroethylene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
trans-1,2-Dichloroethylene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
1,2-Dichloropropane	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
1,3-Dichloropropane	ND	0.0013	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
2,2-Dichloropropane	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
1,1-Dichloropropene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
cis-1,3-Dichloropropene	ND	0.0013	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
trans-1,3-Dichloropropene	ND	0.0013	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
Ethylbenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
Hexachlorobutadiene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
2-Hexanone (MBK)	ND	0.027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
Isopropylbenzene (Cumene)	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT   Sample Description: Work Order: 20A0108

Date Received: 1/3/2020

Field Sample #: TRC-AOC-12N-SO-03 (9)   Sampled: 1/3/2020 10:25

Sample ID: 20A0108-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0054	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
Methylene Chloride	ND	0.027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
Naphthalene	ND	0.0054	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
n-Propylbenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
Styrene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
1,1,1,2-Tetrachloroethane	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
1,1,2,2-Tetrachloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
Tetrachloroethylene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
Tetrahydrofuran	ND	0.013	mg/Kg dry	1	V-16	SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
Toluene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
1,2,3-Trichlorobenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
1,2,4-Trichlorobenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
1,1,1-Trichloroethane	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
1,1,2-Trichloroethane	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
Trichloroethylene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
Trichlorofluoromethane (Freon 11)	ND	0.013	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
1,2,3-Trichloropropane	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.013	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
1,2,4-Trimethylbenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
1,3,5-Trimethylbenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
Vinyl Chloride	ND	0.013	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
m+p Xylene	ND	0.0054	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
o-Xylene	ND	0.0027	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF
Xylenes (total)	ND	0.0081	mg/Kg dry	1		SW-846 8260C-D	1/6/20	1/6/20 7:37	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	92.7	70-130		1/6/20 7:37
Toluene-d8	98.4	70-130		1/6/20 7:37
4-Bromofluorobenzene	100	70-130		1/6/20 7:37

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 20A0108

Date Received: 1/3/2020

Field Sample #: TRC-AOC-12N-SO-03 (9) Sampled: 1/3/2020 10:25

Sample ID: 20A0108-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	2.5	0.19	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Acenaphthylene	0.73	0.19	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Aniline	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Anthracene	7.6	0.19	mg/Kg dry	1	E	SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Anthracene	5.4	1.9	mg/Kg dry	10		SW-846 8270D-E	1/5/20	1/6/20 18:46	KLB
Benzo(a)anthracene	18	0.19	mg/Kg dry	1	E	SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Benzo(a)anthracene	16	1.9	mg/Kg dry	10		SW-846 8270D-E	1/5/20	1/6/20 18:46	KLB
Benzo(a)pyrene	18	0.19	mg/Kg dry	1	E	SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Benzo(a)pyrene	13	1.9	mg/Kg dry	10		SW-846 8270D-E	1/5/20	1/6/20 18:46	KLB
Benzo(b)fluoranthene	24	0.19	mg/Kg dry	1	E	SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Benzo(b)fluoranthene	16	1.9	mg/Kg dry	10		SW-846 8270D-E	1/5/20	1/6/20 18:46	KLB
Benzo(g,h,i)perylene	9.2	0.19	mg/Kg dry	1	E	SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Benzo(g,h,i)perylene	6.4	1.9	mg/Kg dry	10		SW-846 8270D-E	1/5/20	1/6/20 18:46	KLB
Benzo(k)fluoranthene	7.0	0.19	mg/Kg dry	1	E	SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Benzo(k)fluoranthene	6.5	1.9	mg/Kg dry	10		SW-846 8270D-E	1/5/20	1/6/20 18:46	KLB
Bis(2-chloroethoxy)methane	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Bis(2-chloroethyl)ether	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Bis(2-chloroisopropyl)ether	ND	0.38	mg/Kg dry	1	V-20	SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Bis(2-Ethylhexyl)phthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
4-Bromophenylphenylether	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Butylbenzylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Carbazole	3.4	0.19	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
4-Chloroaniline	ND	0.74	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
4-Chloro-3-methylphenol	ND	0.74	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
2-Chloronaphthalene	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
2-Chlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
4-Chlorophenylphenylether	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Chrysene	18	0.19	mg/Kg dry	1	E	SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Chrysene	15	1.9	mg/Kg dry	10		SW-846 8270D-E	1/5/20	1/6/20 18:46	KLB
Dibenz(a,h)anthracene	2.7	0.19	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Dibenzofuran	2.2	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Di-n-butylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
3,3-Dichlorobenzidine	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
2,4-Dichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Diethylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
2,4-Dimethylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Dimethylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
4,6-Dinitro-2-methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
2,4-Dinitrophenol	ND	0.74	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
2,4-Dinitrotoluene	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
2,6-Dinitrotoluene	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Di-n-octylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Fluoranthene	42	0.19	mg/Kg dry	1	E	SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Fluoranthene	38	1.9	mg/Kg dry	10		SW-846 8270D-E	1/5/20	1/6/20 18:46	KLB

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT   Sample Description: Work Order: 20A0108

Date Received: 1/3/2020

Field Sample #: TRC-AOC-12N-SO-03 (9)   Sampled: 1/3/2020 10:25

Sample ID: 20A0108-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Fluorene	2.6	0.19	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Hexachlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Hexachlorobutadiene	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Hexachlorocyclopentadiene	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Hexachloroethane	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Indeno(1,2,3-cd)pyrene	12	0.19	mg/Kg dry	1	E	SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Indeno(1,2,3-cd)pyrene	8.3	1.9	mg/Kg dry	10		SW-846 8270D-E	1/5/20	1/6/20 18:46	KLB
Isophorone	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
2-Methylnaphthalene	1.5	0.19	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
2-Methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
3/4-Methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Naphthalene	1.9	0.19	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
2-Nitroaniline	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
3-Nitroaniline	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
4-Nitroaniline	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Nitrobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
2-Nitrophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
4-Nitrophenol	ND	0.74	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
N-Nitrosodiphenylamine/Diphenylamine	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
N-Nitrosodi-n-propylamine	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Pentachloronitrobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Pentachlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Phenanthrene	34	0.19	mg/Kg dry	1	E	SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Phenanthrene	35	1.9	mg/Kg dry	10		SW-846 8270D-E	1/5/20	1/6/20 18:46	KLB
Phenol	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Pyrene	34	0.19	mg/Kg dry	1	E	SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
Pyrene	33	1.9	mg/Kg dry	10		SW-846 8270D-E	1/5/20	1/6/20 18:46	KLB
Pyridine	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
1,2,4,5-Tetrachlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
1,2,4-Trichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
2,4,5-Trichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB
2,4,6-Trichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D-E	1/5/20	1/6/20 14:55	KLB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	68.8	30-130		1/6/20 14:55
2-Fluorophenol	55.2	30-130		1/6/20 18:46
Phenol-d6	74.3	30-130		1/6/20 14:55
Phenol-d6	58.8	30-130		1/6/20 18:46
Nitrobenzene-d5	67.0	30-130		1/6/20 14:55
Nitrobenzene-d5	53.6	30-130		1/6/20 18:46
2-Fluorobiphenyl	90.6	30-130		1/6/20 14:55
2-Fluorobiphenyl	72.8	30-130		1/6/20 18:46
2,4,6-Tribromophenol	71.6	30-130		1/6/20 14:55
2,4,6-Tribromophenol	49.0	30-130		1/6/20 18:46
p-Terphenyl-d14	74.1	30-130		1/6/20 14:55
p-Terphenyl-d14	65.5	30-130		1/6/20 18:46

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 20A0108

Date Received: 1/3/2020

Field Sample #: TRC-AOC-12N-SO-03 (9) Sampled: 1/3/2020 10:25

Sample ID: 20A0108-03

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	1/4/20	1/7/20 14:47	JMB
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	1/4/20	1/7/20 14:47	JMB
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	1/4/20	1/7/20 14:47	JMB
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	1/4/20	1/7/20 14:47	JMB
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	1/4/20	1/7/20 14:47	JMB
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	1/4/20	1/7/20 14:47	JMB
Aroclor-1260 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	1/4/20	1/7/20 14:47	JMB
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	1/4/20	1/7/20 14:47	JMB
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	1/4/20	1/7/20 14:47	JMB
Total PCB Aroclors [1]	0.0		mg/Kg dry	4		SW-846 8082A	1/4/20	1/7/20 14:47	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	77.1	30-150		1/7/20 14:47
Decachlorobiphenyl [2]	149	30-150		1/7/20 14:47
Tetrachloro-m-xylene [1]	79.8	30-150		1/7/20 14:47
Tetrachloro-m-xylene [2]	78.8	30-150		1/7/20 14:47

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 20A0108

Date Received: 1/3/2020

Field Sample #: TRC-AOC-12N-SO-03 (9) Sampled: 1/3/2020 10:25

Sample ID: 20A0108-03

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	1300	560	mg/Kg dry	50	MS-07A	CTDEP ETPH	1/5/20	1/7/20 8:49	RDD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorobiphenyl	*	50-150	S-01	1/7/20 8:49

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Project Location: 510 Grand Ave., New Haven, CT   Sample Description: Work Order: 20A0108

Date Received: 1/3/2020

Field Sample #: TRC-AOC-12N-SO-03 (9)   Sampled: 1/3/2020 10:25

Sample ID: 20A0108-03

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	16	1.9	mg/Kg dry	1		SW-846 6010D	1/6/20	1/7/20 17:46	TBC
Barium	240	1.9	mg/Kg dry	1		SW-846 6010D	1/6/20	1/7/20 17:46	TBC
Cadmium	2.2	0.19	mg/Kg dry	1		SW-846 6010D	1/6/20	1/7/20 17:46	TBC
Chromium	12	0.38	mg/Kg dry	1		SW-846 6010D	1/6/20	1/7/20 17:46	TBC
Lead	1700	0.56	mg/Kg dry	1		SW-846 6010D	1/6/20	1/7/20 17:46	TBC
Mercury	0.13	0.028	mg/Kg dry	1		SW-846 7471B	1/6/20	1/7/20 11:22	CJV
Selenium	ND	3.8	mg/Kg dry	1		SW-846 6010D	1/6/20	1/7/20 17:46	TBC
Silver	ND	0.38	mg/Kg dry	1		SW-846 6010D	1/6/20	1/7/20 17:46	TBC

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Project Location: 510 Grand Ave., New Haven, CT   Sample Description: Work Order: 20A0108

Date Received: 1/3/2020

Field Sample #: TRC-AOC-12N-SO-03 (9)   Sampled: 1/3/2020 10:25

Sample ID: 20A0108-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.2		% Wt	1		SM 2540G	1/4/20	1/5/20 9:04	AVF
Free Liquid	Absent		present/absent	1		SW-846 9095B	1/7/20	1/7/20 7:20	LL
Ignitability	Absent		present/absent	1		SW-846 1030	1/7/20	1/7/20 12:30	DJM
pH @22.7°C	9.7		pH Units	1		SW-846 9045C	1/3/20	1/3/20 19:25	KMV
Reactive Cyanide	ND	4.0	mg/Kg	1		SW-846 9014	1/6/20	1/8/20 12:00	DJM
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	1/6/20	1/8/20 11:30	DJM

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Project Location: 510 Grand Ave., New Haven, CT   Sample Description: Work Order: 20A0108

Date Received: 1/3/2020

Field Sample #: TRC-AOC-12N-SO-03 (9)   Sampled: 1/3/2020 10:25

Sample ID: 20A0108-03

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	0.056	mg/L	1		SW-846 6010D	1/7/20	1/7/20 16:50	MJH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	1/7/20	1/8/20 10:25	CJV
Barium	0.88	0.56	mg/L	1		SW-846 6010D	1/7/20	1/7/20 16:50	MJH
Cadmium	ND	0.011	mg/L	1		SW-846 6010D	1/7/20	1/7/20 16:50	MJH
Chromium	ND	0.056	mg/L	1		SW-846 6010D	1/7/20	1/7/20 16:50	MJH
Lead	0.75	0.11	mg/L	1		SW-846 6010D	1/7/20	1/7/20 16:50	MJH
Selenium	ND	0.056	mg/L	1		SW-846 6010D	1/7/20	1/7/20 16:50	MJH
Silver	ND	0.056	mg/L	1		SW-846 6010D	1/7/20	1/7/20 16:50	MJH

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Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0108-01 [TRC-AOC-12N-SO-01 (0-0.5)]	B249428	30.4	1.00	01/05/20
20A0108-02 [TRC-AOC-12N-SO-02 (5)]	B249428	30.5	1.00	01/05/20
20A0108-03 [TRC-AOC-12N-SO-03 (9)]	B249428	30.2	1.00	01/05/20

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
20A0108-01 [TRC-AOC-12N-SO-01 (0-0.5)]	B249422	01/04/20
20A0108-02 [TRC-AOC-12N-SO-02 (5)]	B249422	01/04/20
20A0108-03 [TRC-AOC-12N-SO-03 (9)]	B249422	01/04/20

SW-846 1030

Lab Number [Field ID]	Batch	Initial [g]	Date
20A0108-01 [TRC-AOC-12N-SO-01 (0-0.5)]	B249550	50.0	01/07/20
20A0108-02 [TRC-AOC-12N-SO-02 (5)]	B249550	50.0	01/07/20
20A0108-03 [TRC-AOC-12N-SO-03 (9)]	B249550	50.0	01/07/20

Prep Method: SW-846 3050B-SW-846 6010D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0108-01 [TRC-AOC-12N-SO-01 (0-0.5)]	B249480	1.53	50.0	01/06/20
20A0108-02 [TRC-AOC-12N-SO-02 (5)]	B249480	1.54	50.0	01/06/20
20A0108-03 [TRC-AOC-12N-SO-03 (9)]	B249480	1.51	50.0	01/06/20

Prep Method: SW-846 3015A-SW-846 6010D **Leachates were extracted on 1/6/2020 per SW-846 1311 in Batch B249468**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
20A0108-01 [TRC-AOC-12N-SO-01 (0-0.5)]	B249542	45.0	50.0	01/07/20
20A0108-02 [TRC-AOC-12N-SO-02 (5)]	B249542	45.0	50.0	01/07/20
20A0108-03 [TRC-AOC-12N-SO-03 (9)]	B249542	45.0	50.0	01/07/20

Prep Method: SW-846 7470A Prep-SW-846 7470A **Leachates were extracted on 1/6/2020 per SW-846 1311 in Batch B249468**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
20A0108-01 [TRC-AOC-12N-SO-01 (0-0.5)]	B249541	6.00	6.00	01/07/20
20A0108-02 [TRC-AOC-12N-SO-02 (5)]	B249541	6.00	6.00	01/07/20
20A0108-03 [TRC-AOC-12N-SO-03 (9)]	B249541	6.00	6.00	01/07/20

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0108-01 [TRC-AOC-12N-SO-01 (0-0.5)]	B249447	0.596	50.0	01/06/20
20A0108-02 [TRC-AOC-12N-SO-02 (5)]	B249447	0.581	50.0	01/06/20
20A0108-03 [TRC-AOC-12N-SO-03 (9)]	B249447	0.607	50.0	01/06/20

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0108-01 [TRC-AOC-12N-SO-01 (0-0.5)]	B249421	10.5	10.0	01/04/20
20A0108-02 [TRC-AOC-12N-SO-02 (5)]	B249421	10.1	10.0	01/04/20
20A0108-03 [TRC-AOC-12N-SO-03 (9)]	B249421	10.5	10.0	01/04/20

Prep Method: SW-846 5035-SW-846 8260C-D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0108-01 [TRC-AOC-12N-SO-01 (0-0.5)]	B249438	5.09	10.0	01/06/20
20A0108-02 [TRC-AOC-12N-SO-02 (5)]	B249438	3.99	10.0	01/06/20
20A0108-03 [TRC-AOC-12N-SO-03 (9)]	B249438	4.21	10.0	01/06/20

Prep Method: SW-846 3546-SW-846 8270D-E

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0108-01 [TRC-AOC-12N-SO-01 (0-0.5)]	B249431	30.0	1.00	01/05/20
20A0108-02 [TRC-AOC-12N-SO-02 (5)]	B249431	30.1	1.00	01/05/20
20A0108-02RE1 [TRC-AOC-12N-SO-02 (5)]	B249431	30.1	1.00	01/05/20
20A0108-03 [TRC-AOC-12N-SO-03 (9)]	B249431	30.2	1.00	01/05/20
20A0108-03RE1 [TRC-AOC-12N-SO-03 (9)]	B249431	30.2	1.00	01/05/20

SW-846 9014

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0108-01 [TRC-AOC-12N-SO-01 (0-0.5)]	B249451	25.3	250	01/06/20
20A0108-02 [TRC-AOC-12N-SO-02 (5)]	B249451	25.1	250	01/06/20
20A0108-03 [TRC-AOC-12N-SO-03 (9)]	B249451	25.2	250	01/06/20

SW-846 9030A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0108-01 [TRC-AOC-12N-SO-01 (0-0.5)]	B249453	25.3	250	01/06/20
20A0108-02 [TRC-AOC-12N-SO-02 (5)]	B249453	25.1	250	01/06/20
20A0108-03 [TRC-AOC-12N-SO-03 (9)]	B249453	25.2	250	01/06/20

SW-846 9045C

Lab Number [Field ID]	Batch	Initial [g]	Date
20A0108-01 [TRC-AOC-12N-SO-01 (0-0.5)]	B249410	20.0	01/03/20
20A0108-02 [TRC-AOC-12N-SO-02 (5)]	B249410	20.0	01/03/20
20A0108-03 [TRC-AOC-12N-SO-03 (9)]	B249410	20.0	01/03/20

SW-846 9095B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0108-01 [TRC-AOC-12N-SO-01 (0-0.5)]	B249508	100	100	01/07/20
20A0108-02 [TRC-AOC-12N-SO-02 (5)]	B249508	100	100	01/07/20
20A0108-03 [TRC-AOC-12N-SO-03 (9)]	B249508	100	100	01/07/20

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Sample Extraction Data

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B249438 - SW-846 5035										
Blank (B249438-BLK1)				Prepared & Analyzed: 01/06/20						
Acetone	ND	0.10	mg/Kg wet							
Acrylonitrile	ND	0.0060	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							V-34
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							V-05
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
trans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B249438 - SW-846 5035										
Blank (B249438-BLK1)				Prepared & Analyzed: 01/06/20						
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							V-16
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Xylenes (total)	ND	0.0060	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	*0.0447*		mg/Kg wet	0.0500		89.4	70-130			
Surrogate: Toluene-d8	*0.0489*		mg/Kg wet	0.0500		97.8	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0492*		mg/Kg wet	0.0500		98.5	70-130			
LCS (B249438-BS1)				Prepared & Analyzed: 01/06/20						
Acetone	0.166	0.10	mg/Kg wet	0.200		83.2	40-160			
Acrylonitrile	0.0178	0.0060	mg/Kg wet	0.0200		89.2	70-130			
Benzene	0.0182	0.0020	mg/Kg wet	0.0200		91.1	70-130			
Bromobenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.3	70-130			
Bromodichloromethane	0.0191	0.0020	mg/Kg wet	0.0200		95.6	70-130			
Bromoform	0.0229	0.0020	mg/Kg wet	0.0200		115	70-130			
Bromomethane	0.0166	0.010	mg/Kg wet	0.0200		82.8	40-160			V-34
2-Butanone (MEK)	0.182	0.040	mg/Kg wet	0.200		91.1	40-160			
n-Butylbenzene	0.0172	0.0020	mg/Kg wet	0.0200		85.8	70-130			
sec-Butylbenzene	0.0205	0.0020	mg/Kg wet	0.0200		103	70-130			
tert-Butylbenzene	0.0198	0.0020	mg/Kg wet	0.0200		99.0	70-130			
Carbon Disulfide	0.187	0.0060	mg/Kg wet	0.200		93.3	70-130			
Carbon Tetrachloride	0.0199	0.0020	mg/Kg wet	0.0200		99.6	70-130			
Chlorobenzene	0.0221	0.0020	mg/Kg wet	0.0200		110	70-130			
Chlorodibromomethane	0.0211	0.0010	mg/Kg wet	0.0200		106	40-160			
Chloroethane	0.0182	0.020	mg/Kg wet	0.0200		91.2	70-130			
Chloroform	0.0177	0.0040	mg/Kg wet	0.0200		88.3	70-130			
Chloromethane	0.0167	0.010	mg/Kg wet	0.0200		83.4	40-160			V-05
2-Chlorotoluene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
4-Chlorotoluene	0.0186	0.0020	mg/Kg wet	0.0200		93.0	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0200	0.0020	mg/Kg wet	0.0200		99.8	70-130			
1,2-Dibromoethane (EDB)	0.0213	0.0010	mg/Kg wet	0.0200		107	70-130			
Dibromomethane	0.0221	0.0020	mg/Kg wet	0.0200		110	70-130			
1,2-Dichlorobenzene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
1,3-Dichlorobenzene	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130			
1,4-Dichlorobenzene	0.0196	0.0020	mg/Kg wet	0.0200		97.8	70-130			
trans-1,4-Dichloro-2-butene	0.0191	0.0040	mg/Kg wet	0.0200		95.4	70-130			
Dichlorodifluoromethane (Freon 12)	0.0206	0.020	mg/Kg wet	0.0200		103	40-160			
1,1-Dichloroethane	0.0187	0.0020	mg/Kg wet	0.0200		93.7	70-130			
1,2-Dichloroethane	0.0199	0.0020	mg/Kg wet	0.0200		99.6	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B249438 - SW-846 5035										
LCS (B249438-BS1)				Prepared & Analyzed: 01/06/20						
1,1-Dichloroethylene	0.0173	0.0040	mg/Kg wet	0.0200		86.3	70-130			
cis-1,2-Dichloroethylene	0.0178	0.0020	mg/Kg wet	0.0200		89.2	70-130			
trans-1,2-Dichloroethylene	0.0184	0.0020	mg/Kg wet	0.0200		92.0	70-130			
1,2-Dichloropropane	0.0197	0.0020	mg/Kg wet	0.0200		98.4	70-130			
1,3-Dichloropropane	0.0202	0.0010	mg/Kg wet	0.0200		101	70-130			
2,2-Dichloropropane	0.0171	0.0020	mg/Kg wet	0.0200		85.6	70-130			
1,1-Dichloropropene	0.0176	0.0020	mg/Kg wet	0.0200		88.2	70-130			
cis-1,3-Dichloropropene	0.0201	0.0010	mg/Kg wet	0.0200		100	70-130			
trans-1,3-Dichloropropene	0.0203	0.0010	mg/Kg wet	0.0200		102	70-130			
Ethylbenzene	0.0188	0.0020	mg/Kg wet	0.0200		94.1	70-130			
Hexachlorobutadiene	0.0204	0.0020	mg/Kg wet	0.0200		102	40-160			
2-Hexanone (MBK)	0.179	0.020	mg/Kg wet	0.200		89.6	70-130			
Isopropylbenzene (Cumene)	0.0221	0.0020	mg/Kg wet	0.0200		110	70-130			
p-Isopropyltoluene (p-Cymene)	0.0193	0.0020	mg/Kg wet	0.0200		96.7	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0193	0.0040	mg/Kg wet	0.0200		96.6	70-130			
Methylene Chloride	0.0183	0.020	mg/Kg wet	0.0200		91.6	70-130			
4-Methyl-2-pentanone (MIBK)	0.181	0.020	mg/Kg wet	0.200		90.7	40-160			
Naphthalene	0.0173	0.0040	mg/Kg wet	0.0200		86.7	70-130			
n-Propylbenzene	0.0189	0.0020	mg/Kg wet	0.0200		94.4	70-130			
Styrene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
1,1,1,2-Tetrachloroethane	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130			
1,1,2,2-Tetrachloroethane	0.0203	0.0010	mg/Kg wet	0.0200		102	70-130			
Tetrachloroethylene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
Tetrahydrofuran	0.0193	0.010	mg/Kg wet	0.0200		96.6	70-130			V-16
Toluene	0.0188	0.0020	mg/Kg wet	0.0200		93.9	70-130			
1,2,3-Trichlorobenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.3	70-130			
1,2,4-Trichlorobenzene	0.0196	0.0020	mg/Kg wet	0.0200		97.8	70-130			
1,1,1-Trichloroethane	0.0176	0.0020	mg/Kg wet	0.0200		88.2	70-130			
1,1,2-Trichloroethane	0.0192	0.0020	mg/Kg wet	0.0200		95.9	70-130			
Trichloroethylene	0.0190	0.0020	mg/Kg wet	0.0200		95.2	70-130			
Trichlorofluoromethane (Freon 11)	0.0185	0.010	mg/Kg wet	0.0200		92.4	40-160			
1,2,3-Trichloropropane	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0194	0.010	mg/Kg wet	0.0200		97.1	70-130			
1,2,4-Trimethylbenzene	0.0185	0.0020	mg/Kg wet	0.0200		92.7	70-130			
1,3,5-Trimethylbenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.7	70-130			
Vinyl Chloride	0.0181	0.010	mg/Kg wet	0.0200		90.6	70-130			
m+p Xylene	0.0382	0.0040	mg/Kg wet	0.0400		95.4	70-130			
o-Xylene	0.0196	0.0020	mg/Kg wet	0.0200		97.9	70-130			
Xylenes (total)	0.0578	0.0060	mg/Kg wet	0.0600		96.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0438*		mg/Kg wet	0.0500		87.5	70-130			
Surrogate: Toluene-d8	*0.0491*		mg/Kg wet	0.0500		98.2	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0501*		mg/Kg wet	0.0500		100	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B249431 - SW-846 3546										
Blank (B249431-BLK1)				Prepared: 01/05/20 Analyzed: 01/06/20						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Aniline	ND	0.34	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							V-20
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
Carbazole	ND	0.17	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							
4-Chloro-3-methylphenol	ND	0.66	mg/Kg wet							
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
4-Chlorophenylphenylether	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
4,6-Dinitro-2-methylphenol	ND	0.34	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachlorocyclopentadiene	ND	0.34	mg/Kg wet							
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
2-Nitroaniline	ND	0.34	mg/Kg wet							
3-Nitroaniline	ND	0.34	mg/Kg wet							
4-Nitroaniline	ND	0.34	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B249431 - SW-846 3546										
Blank (B249431-BLK1)				Prepared: 01/05/20 Analyzed: 01/06/20						
4-Nitrophenol	ND	0.66	mg/Kg wet							
N-Nitrosodiphenylamine/Diphenylamine	ND	0.34	mg/Kg wet							
N-Nitrosodi-n-propylamine	ND	0.34	mg/Kg wet							
Pentachloronitrobenzene	ND	0.34	mg/Kg wet							
Pentachlorophenol	ND	0.34	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Phenol	ND	0.34	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Pyridine	ND	0.34	mg/Kg wet							
1,2,4,5-Tetrachlorobenzene	ND	0.34	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg wet							
2,4,5-Trichlorophenol	ND	0.34	mg/Kg wet							
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet							
Surrogate: 2-Fluorophenol	*6.00*		mg/Kg wet	6.67		90.0	30-130			
Surrogate: Phenol-d6	*6.21*		mg/Kg wet	6.67		93.1	30-130			
Surrogate: Nitrobenzene-d5	*2.85*		mg/Kg wet	3.33		85.5	30-130			
Surrogate: 2-Fluorobiphenyl	*3.84*		mg/Kg wet	3.33		115	30-130			
Surrogate: 2,4,6-Tribromophenol	*6.96*		mg/Kg wet	6.67		104	30-130			
Surrogate: p-Terphenyl-d14	*3.64*		mg/Kg wet	3.33		109	30-130			
LCS (B249431-BS1)				Prepared: 01/05/20 Analyzed: 01/06/20						
Acenaphthene	1.45	0.17	mg/Kg wet	1.67		87.1	40-140			
Acenaphthylene	1.48	0.17	mg/Kg wet	1.67		89.0	40-140			
Aniline	1.09	0.34	mg/Kg wet	1.67		65.5	40-140			†
Anthracene	1.56	0.17	mg/Kg wet	1.67		93.8	40-140			
Benzo(a)anthracene	1.53	0.17	mg/Kg wet	1.67		91.8	40-140			
Benzo(a)pyrene	1.52	0.17	mg/Kg wet	1.67		91.3	40-140			
Benzo(b)fluoranthene	1.54	0.17	mg/Kg wet	1.67		92.6	40-140			
Benzo(g,h,i)perylene	1.35	0.17	mg/Kg wet	1.67		80.7	40-140			
Benzo(k)fluoranthene	1.57	0.17	mg/Kg wet	1.67		94.0	40-140			
Bis(2-chloroethoxy)methane	1.26	0.34	mg/Kg wet	1.67		75.5	40-140			
Bis(2-chloroethyl)ether	1.23	0.34	mg/Kg wet	1.67		73.6	40-140			
Bis(2-chloroisopropyl)ether	1.79	0.34	mg/Kg wet	1.67		108	40-140			V-06
Bis(2-Ethylhexyl)phthalate	1.49	0.34	mg/Kg wet	1.67		89.6	40-140			
4-Bromophenylphenylether	1.57	0.34	mg/Kg wet	1.67		94.5	40-140			
Butylbenzylphthalate	1.47	0.34	mg/Kg wet	1.67		88.3	40-140			
Carbazole	1.47	0.17	mg/Kg wet	1.67		88.0	40-140			
4-Chloroaniline	1.01	0.66	mg/Kg wet	1.67		60.8	40-140			†
4-Chloro-3-methylphenol	1.59	0.66	mg/Kg wet	1.67		95.5	30-130			
2-Chloronaphthalene	1.26	0.34	mg/Kg wet	1.67		75.9	40-140			
2-Chlorophenol	1.31	0.34	mg/Kg wet	1.67		78.8	30-130			
4-Chlorophenylphenylether	1.57	0.34	mg/Kg wet	1.67		94.2	40-140			
Chrysene	1.52	0.17	mg/Kg wet	1.67		91.2	40-140			
Dibenz(a,h)anthracene	1.29	0.17	mg/Kg wet	1.67		77.1	40-140			
Dibenzofuran	1.59	0.34	mg/Kg wet	1.67		95.3	40-140			
Di-n-butylphthalate	1.55	0.34	mg/Kg wet	1.67		92.9	40-140			
3,3-Dichlorobenzidine	1.52	0.17	mg/Kg wet	1.67		91.0	40-140			†
2,4-Dichlorophenol	1.49	0.34	mg/Kg wet	1.67		89.5	30-130			
Diethylphthalate	1.57	0.34	mg/Kg wet	1.67		94.4	40-140			
2,4-Dimethylphenol	1.37	0.34	mg/Kg wet	1.67		82.3	30-130			
Dimethylphthalate	1.56	0.34	mg/Kg wet	1.67		93.5	40-140			
4,6-Dinitro-2-methylphenol	1.36	0.34	mg/Kg wet	1.67		81.8	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B249431 - SW-846 3546										
LCS (B249431-BS1)				Prepared: 01/05/20 Analyzed: 01/06/20						
2,4-Dinitrophenol	0.895	0.66	mg/Kg wet	1.67		53.7	30-130			
2,4-Dinitrotoluene	1.48	0.34	mg/Kg wet	1.67		89.1	40-140			
2,6-Dinitrotoluene	1.55	0.34	mg/Kg wet	1.67		93.1	40-140			
Di-n-octylphthalate	1.47	0.34	mg/Kg wet	1.67		88.3	40-140			
Fluoranthene	1.56	0.17	mg/Kg wet	1.67		93.7	40-140			
Fluorene	1.52	0.17	mg/Kg wet	1.67		90.9	40-140			
Hexachlorobenzene	1.62	0.34	mg/Kg wet	1.67		97.0	40-140			
Hexachlorobutadiene	1.40	0.34	mg/Kg wet	1.67		84.0	40-140			
Hexachlorocyclopentadiene	0.951	0.34	mg/Kg wet	1.67		57.1	30-140			
Hexachloroethane	1.10	0.34	mg/Kg wet	1.67		66.1	40-140			
Indeno(1,2,3-cd)pyrene	1.42	0.17	mg/Kg wet	1.67		85.2	40-140			
Isophorone	1.46	0.34	mg/Kg wet	1.67		87.6	40-140			
2-Methylnaphthalene	1.60	0.17	mg/Kg wet	1.67		95.7	40-140			
2-Methylphenol	1.30	0.34	mg/Kg wet	1.67		78.1	30-130			
3/4-Methylphenol	1.38	0.34	mg/Kg wet	1.67		83.0	30-130			
Naphthalene	1.32	0.17	mg/Kg wet	1.67		79.4	40-140			
2-Nitroaniline	1.72	0.34	mg/Kg wet	1.67		103	40-140			
3-Nitroaniline	1.36	0.34	mg/Kg wet	1.67		81.6	40-140			†
4-Nitroaniline	1.49	0.34	mg/Kg wet	1.67		89.5	40-140			
Nitrobenzene	1.36	0.34	mg/Kg wet	1.67		81.6	40-140			
2-Nitrophenol	1.35	0.34	mg/Kg wet	1.67		80.9	30-130			
4-Nitrophenol	1.91	0.66	mg/Kg wet	1.67		115	10-130			
N-Nitrosodiphenylamine/Diphenylamine	1.62	0.34	mg/Kg wet	1.67		96.9	40-140			
N-Nitrosodi-n-propylamine	1.39	0.34	mg/Kg wet	1.67		83.7	40-140			
Pentachloronitrobenzene	1.61	0.34	mg/Kg wet	1.67		96.3	40-140			
Pentachlorophenol	1.23	0.34	mg/Kg wet	1.67		73.8	30-130			
Phenanthrene	1.56	0.17	mg/Kg wet	1.67		93.4	40-140			
Phenol	1.33	0.34	mg/Kg wet	1.67		79.6	20-130			
Pyrene	1.52	0.17	mg/Kg wet	1.67		91.1	40-140			
Pyridine	0.645	0.34	mg/Kg wet	1.67		38.7	10-140			†
1,2,4,5-Tetrachlorobenzene	1.46	0.34	mg/Kg wet	1.67		87.8	40-140			
1,2,4-Trichlorobenzene	1.35	0.34	mg/Kg wet	1.67		81.0	40-140			
2,4,5-Trichlorophenol	1.53	0.34	mg/Kg wet	1.67		92.0	30-130			
2,4,6-Trichlorophenol	1.50	0.34	mg/Kg wet	1.67		89.9	30-130			
Surrogate: 2-Fluorophenol	*5.74*		mg/Kg wet	6.67		86.2	30-130			
Surrogate: Phenol-d6	*6.18*		mg/Kg wet	6.67		92.7	30-130			
Surrogate: Nitrobenzene-d5	*2.78*		mg/Kg wet	3.33		83.4	30-130			
Surrogate: 2-Fluorobiphenyl	*4.00*		mg/Kg wet	3.33		120	30-130			
Surrogate: 2,4,6-Tribromophenol	*7.84*		mg/Kg wet	6.67		118	30-130			
Surrogate: p-Terphenyl-d14	*3.43*		mg/Kg wet	3.33		103	30-130			
LCS Dup (B249431-BSD1)				Prepared: 01/05/20 Analyzed: 01/06/20						
Acenaphthene	1.32	0.17	mg/Kg wet	1.67		78.9	40-140	9.83	30	
Acenaphthylene	1.32	0.17	mg/Kg wet	1.67		79.1	40-140	11.8	30	
Aniline	0.905	0.34	mg/Kg wet	1.67		54.3	40-140	18.8	50	† ‡
Anthracene	1.43	0.17	mg/Kg wet	1.67		85.7	40-140	9.07	30	
Benzo(a)anthracene	1.42	0.17	mg/Kg wet	1.67		85.0	40-140	7.67	30	
Benzo(a)pyrene	1.41	0.17	mg/Kg wet	1.67		84.7	40-140	7.55	30	
Benzo(b)fluoranthene	1.46	0.17	mg/Kg wet	1.67		87.4	40-140	5.75	30	
Benzo(g,h,i)perylene	1.23	0.17	mg/Kg wet	1.67		73.6	40-140	9.25	30	
Benzo(k)fluoranthene	1.48	0.17	mg/Kg wet	1.67		89.1	40-140	5.37	30	
Bis(2-chloroethoxy)methane	1.19	0.34	mg/Kg wet	1.67		71.3	40-140	5.78	30	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B249431 - SW-846 3546										
LCS Dup (B249431-BSD1)				Prepared: 01/05/20 Analyzed: 01/06/20						
Bis(2-chloroethyl)ether	1.19	0.34	mg/Kg wet	1.67		71.4	40-140	3.14	30	
Bis(2-chloroisopropyl)ether	1.72	0.34	mg/Kg wet	1.67		103	40-140	4.43	30	V-06
Bis(2-Ethylhexyl)phthalate	1.41	0.34	mg/Kg wet	1.67		84.7	40-140	5.64	30	
4-Bromophenylphenylether	1.51	0.34	mg/Kg wet	1.67		90.6	40-140	4.21	30	
Butylbenzylphthalate	1.37	0.34	mg/Kg wet	1.67		82.2	40-140	7.08	30	
Carbazole	1.32	0.17	mg/Kg wet	1.67		78.9	40-140	10.9	30	
4-Chloroaniline	0.876	0.66	mg/Kg wet	1.67		52.6	40-140	14.6	30	†
4-Chloro-3-methylphenol	1.42	0.66	mg/Kg wet	1.67		85.4	30-130	11.2	30	
2-Chloronaphthalene	1.15	0.34	mg/Kg wet	1.67		69.0	40-140	9.56	30	
2-Chlorophenol	1.18	0.34	mg/Kg wet	1.67		71.0	30-130	10.5	30	
4-Chlorophenylphenylether	1.44	0.34	mg/Kg wet	1.67		86.3	40-140	8.78	30	
Chrysene	1.42	0.17	mg/Kg wet	1.67		85.4	40-140	6.54	30	
Dibenz(a,h)anthracene	1.32	0.17	mg/Kg wet	1.67		78.9	40-140	2.31	30	
Dibenzofuran	1.42	0.34	mg/Kg wet	1.67		85.5	40-140	10.9	30	
Di-n-butylphthalate	1.47	0.34	mg/Kg wet	1.67		88.2	40-140	5.21	30	
3,3-Dichlorobenzidine	1.34	0.17	mg/Kg wet	1.67		80.1	40-140	12.8	30	† ‡
2,4-Dichlorophenol	1.37	0.34	mg/Kg wet	1.67		82.2	30-130	8.53	30	
Diethylphthalate	1.44	0.34	mg/Kg wet	1.67		86.2	40-140	9.10	30	
2,4-Dimethylphenol	1.25	0.34	mg/Kg wet	1.67		75.0	30-130	9.29	30	
Dimethylphthalate	1.41	0.34	mg/Kg wet	1.67		84.8	40-140	9.67	50	
4,6-Dinitro-2-methylphenol	1.23	0.34	mg/Kg wet	1.67		74.1	30-130	9.96	50	
2,4-Dinitrophenol	0.811	0.66	mg/Kg wet	1.67		48.7	30-130	9.85	50	
2,4-Dinitrotoluene	1.32	0.34	mg/Kg wet	1.67		79.0	40-140	12.0	30	
2,6-Dinitrotoluene	1.41	0.34	mg/Kg wet	1.67		84.8	40-140	9.35	30	
Di-n-octylphthalate	1.36	0.34	mg/Kg wet	1.67		81.9	40-140	7.52	30	
Fluoranthene	1.43	0.17	mg/Kg wet	1.67		86.0	40-140	8.53	30	
Fluorene	1.37	0.17	mg/Kg wet	1.67		82.0	40-140	10.2	30	
Hexachlorobenzene	1.54	0.34	mg/Kg wet	1.67		92.4	40-140	4.86	30	
Hexachlorobutadiene	1.30	0.34	mg/Kg wet	1.67		77.8	40-140	7.61	30	
Hexachlorocyclopentadiene	0.848	0.34	mg/Kg wet	1.67		50.9	30-140	11.4	50	
Hexachloroethane	1.09	0.34	mg/Kg wet	1.67		65.5	40-140	0.973	50	
Indeno(1,2,3-cd)pyrene	1.31	0.17	mg/Kg wet	1.67		78.8	40-140	7.85	50	
Isophorone	1.33	0.34	mg/Kg wet	1.67		79.7	40-140	9.47	30	
2-Methylnaphthalene	1.45	0.17	mg/Kg wet	1.67		86.8	40-140	9.75	30	
2-Methylphenol	1.18	0.34	mg/Kg wet	1.67		71.0	30-130	9.53	30	
3/4-Methylphenol	1.29	0.34	mg/Kg wet	1.67		77.7	30-130	6.65	30	
Naphthalene	1.20	0.17	mg/Kg wet	1.67		71.8	40-140	10.0	30	
2-Nitroaniline	1.51	0.34	mg/Kg wet	1.67		90.7	40-140	12.7	30	
3-Nitroaniline	1.15	0.34	mg/Kg wet	1.67		68.9	40-140	16.9	30	†
4-Nitroaniline	1.30	0.34	mg/Kg wet	1.67		77.9	40-140	13.8	30	
Nitrobenzene	1.23	0.34	mg/Kg wet	1.67		74.1	40-140	9.64	30	
2-Nitrophenol	1.23	0.34	mg/Kg wet	1.67		73.9	30-130	9.10	30	
4-Nitrophenol	1.35	0.66	mg/Kg wet	1.67		80.9	10-130	34.5	50	‡
N-Nitrosodiphenylamine/Diphenylamine	1.53	0.34	mg/Kg wet	1.67		91.9	40-140	5.29	30	
N-Nitrosodi-n-propylamine	1.29	0.34	mg/Kg wet	1.67		77.3	40-140	7.90	30	
Pentachloronitrobenzene	1.49	0.34	mg/Kg wet	1.67		89.3	40-140	7.56	30	
Pentachlorophenol	1.11	0.34	mg/Kg wet	1.67		66.5	30-130	10.3	50	
Phenanthrene	1.45	0.17	mg/Kg wet	1.67		86.9	40-140	7.14	30	
Phenol	1.20	0.34	mg/Kg wet	1.67		72.1	20-130	9.94	30	
Pyrene	1.42	0.17	mg/Kg wet	1.67		85.4	40-140	6.53	30	
Pyridine	0.615	0.34	mg/Kg wet	1.67		36.9	10-140	4.87	50	†
1,2,4,5-Tetrachlorobenzene	1.33	0.34	mg/Kg wet	1.67		79.8	40-140	9.47	30	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B249431 - SW-846 3546										
LCS Dup (B249431-BSD1)				Prepared: 01/05/20 Analyzed: 01/06/20						
1,2,4-Trichlorobenzene	1.24	0.34	mg/Kg wet	1.67		74.5	40-140	8.33	30	
2,4,5-Trichlorophenol	1.39	0.34	mg/Kg wet	1.67		83.7	30-130	9.52	30	
2,4,6-Trichlorophenol	1.38	0.34	mg/Kg wet	1.67		83.0	30-130	7.91	50	
Surrogate: 2-Fluorophenol	*5.11*		mg/Kg wet	6.67		76.6	30-130			
Surrogate: Phenol-d6	*5.42*		mg/Kg wet	6.67		81.2	30-130			
Surrogate: Nitrobenzene-d5	*2.48*		mg/Kg wet	3.33		74.4	30-130			
Surrogate: 2-Fluorobiphenyl	*3.59*		mg/Kg wet	3.33		108	30-130			
Surrogate: 2,4,6-Tribromophenol	*6.85*		mg/Kg wet	6.67		103	30-130			
Surrogate: p-Terphenyl-d14	*3.19*		mg/Kg wet	3.33		95.7	30-130			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B249421 - SW-846 3540C										
Blank (B249421-BLK1)				Prepared: 01/04/20 Analyzed: 01/07/20						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Total PCB Aroclors	0.0		mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.184*		mg/Kg wet	0.200		91.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.188*		mg/Kg wet	0.200		94.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.176*		mg/Kg wet	0.200		88.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.181*		mg/Kg wet	0.200		90.3	30-150			
LCS (B249421-BS1)				Prepared: 01/04/20 Analyzed: 01/07/20						
Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		81.5	40-140			
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		82.6	40-140			
Aroclor-1254	ND	0.020	mg/Kg wet				40-140			
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet				40-140			
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		78.1	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		78.5	40-140			
Surrogate: Decachlorobiphenyl	*0.181*		mg/Kg wet	0.200		90.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.185*		mg/Kg wet	0.200		92.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.172*		mg/Kg wet	0.200		86.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.176*		mg/Kg wet	0.200		87.8	30-150			
LCS Dup (B249421-BSD1)				Prepared: 01/04/20 Analyzed: 01/07/20						
Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		89.0	40-140	8.75	30	
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		88.7	40-140	7.07	30	
Aroclor-1254	ND	0.020	mg/Kg wet				40-140	NC	30	
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet				40-140	NC	30	
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		85.0	40-140	8.50	30	
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		86.6	40-140	9.73	30	
Surrogate: Decachlorobiphenyl	*0.198*		mg/Kg wet	0.200		99.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.203*		mg/Kg wet	0.200		102	30-150			
Surrogate: Tetrachloro-m-xylene	*0.185*		mg/Kg wet	0.200		92.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.190*		mg/Kg wet	0.200		95.2	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B249421 - SW-846 3540C										
Matrix Spike (B249421-MS1)	**Source: 20A0108-01**		Prepared: 01/04/20 Analyzed: 01/07/20							
Aroclor-1016	0.20	0.080	mg/Kg dry	0.201	ND	98.4	40-140			
Aroclor-1016 [2C]	0.21	0.080	mg/Kg dry	0.201	ND	102	40-140			
Aroclor-1254	ND	0.080	mg/Kg dry		ND		40-140			
Aroclor-1254 [2C]	ND	0.080	mg/Kg dry		ND		40-140			
Aroclor-1260	0.18	0.080	mg/Kg dry	0.201	ND	90.6	40-140			
Aroclor-1260 [2C]	0.18	0.080	mg/Kg dry	0.201	ND	89.5	40-140			
Surrogate: Decachlorobiphenyl	*0.188*		mg/Kg dry	0.201		93.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.185*		mg/Kg dry	0.201		92.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.186*		mg/Kg dry	0.201		92.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.185*		mg/Kg dry	0.201		92.1	30-150			
Matrix Spike Dup (B249421-MSD1)	**Source: 20A0108-01**		Prepared: 01/04/20 Analyzed: 01/07/20							
Aroclor-1016	0.19	0.080	mg/Kg dry	0.201	ND	95.7	40-140	2.78	50	
Aroclor-1016 [2C]	0.21	0.080	mg/Kg dry	0.201	ND	103	40-140	0.668	50	
Aroclor-1254	ND	0.080	mg/Kg dry		ND		40-140	NC	50	
Aroclor-1254 [2C]	ND	0.080	mg/Kg dry		ND		40-140	NC	50	
Aroclor-1260	0.18	0.080	mg/Kg dry	0.201	ND	91.4	40-140	0.864	50	
Aroclor-1260 [2C]	0.19	0.080	mg/Kg dry	0.201	ND	93.4	40-140	4.29	50	
Surrogate: Decachlorobiphenyl	*0.188*		mg/Kg dry	0.201		93.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.188*		mg/Kg dry	0.201		93.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.188*		mg/Kg dry	0.201		93.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.192*		mg/Kg dry	0.201		95.5	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B249428 - SW-846 3546											
Blank (B249428-BLK1)				Prepared: 01/05/20 Analyzed: 01/06/20							
CT ETPH	ND	10	mg/Kg wet								
Surrogate: 2-Fluorobiphenyl	*2.50*		mg/Kg wet	3.33		75.1		50-150			
LCS (B249428-BS1)				Prepared: 01/05/20 Analyzed: 01/06/20							
CT ETPH	25.0	10	mg/Kg wet	33.3		75.1		60-120			
Surrogate: 2-Fluorobiphenyl	*2.43*		mg/Kg wet	3.33		72.9		50-150			
LCS Dup (B249428-BSD1)				Prepared: 01/05/20 Analyzed: 01/06/20							
CT ETPH	26.6	10	mg/Kg wet	33.3		79.7		60-120	5.93	30	
Surrogate: 2-Fluorobiphenyl	*2.60*		mg/Kg wet	3.33		78.0		50-150			
Matrix Spike (B249428-MS1)	**Source: 20A0108-03**			Prepared: 01/05/20 Analyzed: 01/07/20							
CT ETPH	880	110	mg/Kg dry	37.1	1300	**-1140**	*	50-150			MS-07A
Surrogate: 2-Fluorobiphenyl	*2.68*		mg/Kg dry	3.71		72.3		50-150			
Matrix Spike Dup (B249428-MSD1)	**Source: 20A0108-03**			Prepared: 01/05/20 Analyzed: 01/07/20							
CT ETPH	861	110	mg/Kg dry	37.3	1300	**-1190**	*	50-150	2.21	30	MS-07A
Surrogate: 2-Fluorobiphenyl	*2.84*		mg/Kg dry	3.73		76.1		50-150			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B249447 - SW-846 7471										
Blank (B249447-BLK1)				Prepared: 01/06/20 Analyzed: 01/07/20						
Mercury	ND	0.025	mg/Kg wet							
LCS (B249447-BS1)				Prepared: 01/06/20 Analyzed: 01/07/20						
Mercury	0.820	0.038	mg/Kg wet	0.761		108	72.7-127.3			
LCS Dup (B249447-BSD1)				Prepared: 01/06/20 Analyzed: 01/07/20						
Mercury	8.78	0.37	mg/Kg wet	7.61		115	72.7-127.3	**166** *	20	R-05
Batch B249480 - SW-846 3050B										
Blank (B249480-BLK1)				Prepared: 01/06/20 Analyzed: 01/07/20						
Arsenic	ND	1.7	mg/Kg wet							
Barium	ND	1.7	mg/Kg wet							
Cadmium	ND	0.17	mg/Kg wet							
Chromium	ND	0.33	mg/Kg wet							
Lead	ND	0.50	mg/Kg wet							
Selenium	ND	3.3	mg/Kg wet							
Silver	ND	0.33	mg/Kg wet							
LCS (B249480-BS1)				Prepared: 01/06/20 Analyzed: 01/07/20						
Arsenic	128	5.0	mg/Kg wet	143		89.5	83.2-117.5			
Barium	407	5.0	mg/Kg wet	415		98.1	82.7-117.6			
Cadmium	54.8	0.50	mg/Kg wet	56.2		97.5	82.9-117.3			
Chromium	90.5	1.0	mg/Kg wet	101		89.6	82.4-116.8			
Lead	110	1.5	mg/Kg wet	125		88.4	82.4-116.8			
Selenium	62.7	10	mg/Kg wet	77.9		80.5	79.3-120.7			
Silver	33.0	1.0	mg/Kg wet	34.3		96.3	81-119.2			
LCS Dup (B249480-BSD1)				Prepared: 01/06/20 Analyzed: 01/07/20						
Arsenic	131	4.9	mg/Kg wet	143		91.6	83.2-117.5	2.36	30	
Barium	396	4.9	mg/Kg wet	415		95.3	82.7-117.6	2.83	20	
Cadmium	55.7	0.49	mg/Kg wet	56.2		99.2	82.9-117.3	1.65	20	
Chromium	92.5	0.98	mg/Kg wet	101		91.6	82.4-116.8	2.23	30	
Lead	113	1.5	mg/Kg wet	125		90.2	82.4-116.8	2.10	30	
Selenium	65.0	9.8	mg/Kg wet	77.9		83.5	79.3-120.7	3.66	30	
Silver	33.0	0.98	mg/Kg wet	34.3		96.1	81-119.2	0.269	30	
Reference (B249480-SRM1) MRL Check				Prepared: 01/06/20 Analyzed: 01/07/20						
Lead	0.468	0.50	mg/Kg wet	0.495		94.6	80-120			

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B249451 - SW-846 9014										
Blank (B249451-BLK1)				Prepared: 01/06/20 Analyzed: 01/08/20						
Reactive Cyanide	ND	0.40	mg/Kg							
LCS (B249451-BS1)				Prepared: 01/06/20 Analyzed: 01/08/20						
Reactive Cyanide	9.4	0.40	mg/Kg	10.0		94.4	82.8-113			
Batch B249453 - SW-846 9030A										
Blank (B249453-BLK1)				Prepared: 01/06/20 Analyzed: 01/08/20						
Reactive Sulfide	ND	2.0	mg/Kg							
LCS (B249453-BS1)				Prepared: 01/06/20 Analyzed: 01/08/20						
Reactive Sulfide	14	2.0	mg/Kg	14.8		94.6	57.6-114			

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QUALITY CONTROL

TCLP - Metals Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B249541 - SW-846 7470A Prep										
Blank (B249541-BLK1)				Prepared: 01/07/20 Analyzed: 01/08/20						
Mercury	ND	0.00010	mg/L							
LCS (B249541-BS1)				Prepared: 01/07/20 Analyzed: 01/08/20						
Mercury	0.00385	0.00010	mg/L	0.00400		96.3	80-120			
LCS Dup (B249541-BSD1)				Prepared: 01/07/20 Analyzed: 01/08/20						
Mercury	0.00392	0.00010	mg/L	0.00400		97.9	80-120	1.69	20	
Batch B249542 - SW-846 3015A										
Blank (B249542-BLK1)				Prepared & Analyzed: 01/07/20						
Arsenic	ND	0.056	mg/L							
Barium	ND	0.56	mg/L							
Cadmium	ND	0.011	mg/L							
Chromium	ND	0.056	mg/L							
Lead	ND	0.11	mg/L							
Selenium	ND	0.056	mg/L							
Silver	ND	0.056	mg/L							
LCS (B249542-BS1)				Prepared & Analyzed: 01/07/20						
Arsenic	0.545	0.056	mg/L	0.556		98.2	80-120			
Barium	0.563	0.56	mg/L	0.556		101	80-120			
Cadmium	0.557	0.011	mg/L	0.556		100	80-120			
Chromium	0.545	0.056	mg/L	0.556		98.0	80-120			
Lead	0.534	0.11	mg/L	0.556		96.2	80-120			
Selenium	0.591	0.056	mg/L	0.556		106	80-120			
Silver	0.640	0.056	mg/L	0.556		115	80-120			
LCS Dup (B249542-BSD1)				Prepared & Analyzed: 01/07/20						
Arsenic	0.534	0.056	mg/L	0.556		96.1	80-120	2.15	20	
Barium	0.554	0.56	mg/L	0.556		99.8	80-120	1.49	20	
Cadmium	0.555	0.011	mg/L	0.556		99.9	80-120	0.339	20	
Chromium	0.539	0.056	mg/L	0.556		96.9	80-120	1.13	20	
Lead	0.525	0.11	mg/L	0.556		94.6	80-120	1.64	20	
Selenium	0.577	0.056	mg/L	0.556		104	80-120	2.43	20	
Silver	0.643	0.056	mg/L	0.556		116	80-120	0.483	20	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

TRC-AOC-12N-SO-02 (5)

Lab Sample ID: 20A0108-02

Date(s) Analyzed: 01/07/2020 01/07/2020

Instrument ID (1): ECD5

Instrument ID (2): ECD5

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Aroclor-1268	1	0.000	-0.030	0.030	0.11	
	2	0.000	-0.030	0.030	0.11	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B249421-BS1 Date(s) Analyzed: 01/07/2020 01/07/2020

Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.17	6.1
Aroclor-1260	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.16	0.0

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IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B249421-BSD1

Date(s) Analyzed: 01/07/2020 01/07/2020

Instrument ID (1): ECD5

Instrument ID (2): ECD5

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.18	
	2	0.000	-0.030	0.030	0.18	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.17	
	2	0.000	-0.030	0.030	0.17	0.0

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IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike

Lab Sample ID: B249421-MS1

Date(s) Analyzed: 01/07/2020 01/07/2020

Instrument ID (1): ECD5

Instrument ID (2): ECD5

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.20	
	2	0.000	-0.030	0.030	0.21	4.9
Aroclor-1260	1	0.000	-0.030	0.030	0.18	
	2	0.000	-0.030	0.030	0.18	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B249421-MSD1

Date(s) Analyzed: 01/07/2020 01/07/2020

Instrument ID (1): ECD5

Instrument ID (2): ECD5

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.21	10.0
Aroclor-1260	1	0.000	-0.030	0.030	0.18	
	2	0.000	-0.030	0.030	0.19	5.4

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

E	Reported result is estimated. Value reported over verified calibration range.
MS-07A	Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possiblity of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.
S-24	Surrogate recovery is biased high due to the presence of Aroclor 1268 in the sample. Aroclor 1268 contains decachlorobiphenyl.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-06	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-20	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
CTDEP ETPH in Water	
CT ETPH	CT
SW-846 1030 in Soil	
Ignitability	NY,NH,CT,NC,ME,VA
SW-846 6010D in Soil	
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,AIHA,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
SW-846 6010D in Water	
Arsenic	NY,CT,NC,ME,NH,VA
Barium	NY,CT,ME,NC,NH,VA
Cadmium	NY,CT,ME,NC,NH,VA
Chromium	NY,CT,ME,NC,NH,VA
Lead	NY,CT,ME,NC,NH,VA
Selenium	CT,ME,NC,NH,NY,VA
Silver	CT,ME,NC,NH,NY,VA
SW-846 7470A in Water	
Mercury	CT,ME,NC,NH,NY,VA
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA,PA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1221	CT,NH,NY,ME,NC,VA,PA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1232	CT,NH,NY,ME,NC,VA,PA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1242	CT,NH,NY,ME,NC,VA,PA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1248	CT,NH,NY,ME,NC,VA,PA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1254	CT,NH,NY,ME,NC,VA,PA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1260	CT,NH,NY,ME,NC,VA,PA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1262	NY,NC,VA,PA
Aroclor-1262 [2C]	NY,NC,VA,PA
Aroclor-1268	NY,NC,VA,PA
Aroclor-1268 [2C]	NY,NC,VA,PA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C-D in Soil	
Acetone	CT,NH,NY,ME
Acrylonitrile	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
1,2-Dibromo-3-chloropropane (DBCP)	NY
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
trans-1,4-Dichloro-2-butene	NY
Dichlorodifluoromethane (Freon 12)	NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NH,NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	CT,NH,NY,ME
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl tert-Butyl Ether (MTBE)	NH,NY
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
Naphthalene	NH,NY,ME

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C-D in Soil	
n-Propylbenzene	NH,NY
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
1,2,4-Trichlorobenzene	NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,4-Trimethylbenzene	CT,NH,NY,ME
1,3,5-Trimethylbenzene	CT,NH,NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME
o-Xylene	CT,NH,NY,ME
Xylenes (total)	NH,NY
SW-846 8270D-E in Soil	
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH
Aniline	NY,NH
Anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
4-Chloro-3-methylphenol	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
4-Chlorophenylphenylether	CT,NY,NH
Chrysene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	NY,NH
1,3-Dichlorobenzene	NY,NH
1,4-Dichlorobenzene	NY,NH

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D-E in Soil	
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
4,6-Dinitro-2-methylphenol	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
Fluoranthene	CT,NY,NH
Fluorene	NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachlorocyclopentadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH
2-Nitroaniline	CT,NY,NH
3-Nitroaniline	CT,NY,NH
4-Nitroaniline	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
N-Nitrosodi-n-propylamine	CT,NY,NH
Pentachloronitrobenzene	NY
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenol	CT,NY,NH
Pyrene	CT,NY,NH
Pyridine	CT,NY,NH
1,2,4,5-Tetrachlorobenzene	NY
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH
SW-846 8270D-E in Water	
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH
Aniline	CT,NY
Anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D-E in Water	
Benzo(b)fluoranthene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
4-Chloro-3-methylphenol	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
4-Chlorophenylphenylether	CT,NY,NH
Chrysene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	NY
1,3-Dichlorobenzene	NY
1,4-Dichlorobenzene	NY
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
4,6-Dinitro-2-methylphenol	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
Fluoranthene	CT,NY,NH
Fluorene	NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachlorocyclopentadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH
2-Nitroaniline	CT,NY,NH
3-Nitroaniline	CT,NY,NH
4-Nitroaniline	CT,NY,NH
Nitrobenzene	CT,NY,NH

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D-E in Water	
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
N-Nitrosodi-n-propylamine	CT,NY,NH
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenol	CT,NY,NH
Pyrene	CT,NY,NH
Pyridine	CT,NY,NH
1,2,4,5-Tetrachlorobenzene	NY
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH
SW-846 9095B in Soil	
Free Liquid	NY

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2022
MA	Massachusetts DEP	M-MA100	06/30/2020
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2021
NY	New York State Department of Health	10899 NELAP	04/1/2020
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2020
RI	Rhode Island Department of Health	LAO00112	12/30/2020
NC	North Carolina Div. of Water Quality	652	12/31/2020
NJ	New Jersey DEP	MA007 NELAP	06/30/2020
FL	Florida Department of Health	E871027 NELAP	06/30/2020
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2020
ME	State of Maine	2011028	06/9/2021
VA	Commonwealth of Virginia	460217	12/14/2020
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2020
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2020
NC-DW	North Carolina Department of Health	25703	07/31/2020
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2020

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http://www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Doc # 381 Rev 2_06262019

Page 1 of 1

Company Name: TRC
Address: 21 Griffin Rd N. Windsor, CT
Phone: 860-298-9692
Project Name: English Station Parcel A
Project Location: 510 Grand Ave, New Haven, CT
Project Number: 263951.000028.000001
Project Manager: Carl Stopper
Con-Test Quote Name/Number: B-20180911 English Station
Invoice Recipient: Carl Stopper
Sampled By: Matt Blumstein

Requested Turnaround Time
7-Day ☐ 10-Day ☐
PFAS 10-Day (std) ☐ Due Date:

Rush-Approval Required
1-Day ☐ 3-Day ☒
2-Day ☐ 4-Day ☐

Dissolved Metal Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

Data Delivery
Format: PDF ☒ EXCEL ☒
Other:
CLP Like Data Pkg Required: ☐
Email To: CStopper@trccompanies.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	COMP/GRAB	[1]Matrix Code	Conc Code	VIALS	GLASS	PLASTIC	BACTERIA	ENCORE	RCRA 8 metals (Total)	SVOCs	PCBs	ETPH	VOCs	Ignitability	Reactivity	Corrosivity	Paint Filter	pH	RCRA 8 metals TCLP
1	TRC-AOC-12N-SO-01 (0-0.5)	1/3/20	1015	GRAB	S	L	3	4				X	X	X	X	X	X	X	X	X	X	X
2	TRC-AOC-12N-SO-02 (5)	1/3/20	1020	GRAB	S	L	3	4				X	X	X	X	X	X	X	X	X	X	X
3	TRC-AOC-12N-SO-03 (9)	1/3/20	1025	GRAB	S	L	3	4				X	X	X	X	X	X	X	X	X	X	X

[2] Preservation Code

Courier Use Only
Total Number Of:
VIALS
GLASS
PLASTIC
BACTERIA
ENCORE

Glassware in the fridge? Y / N
Glassware in freezer? Y / N
Prepackaged Cooler? Y / N
*Contest is not responsible for missing samples from prepacked coolers

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

Signature	Date/Time
Relinquished by: (signature) [signature]	1/3/20
Received by: (signature) [signature]	320pm 1/3/2020
Relinquished by: (signature) [signature]	4:20 1/3/2020
Received by: (signature) [signature] 2, COE	1/3/20 16:20
Relinquished by: (signature)	
Received by: (signature)	
Relinquished by: (signature)	
Received by: (signature)	

Client Comments:
CC results to: Shawn.Crosbie@ui.net.com
Bill to TRC Acct Payable, PO# 147856

Detection Limit Requirements
MA:
CT: CT RSRs
Other:

Special Requirements
☐ MA MCP Required
MCP Certification Form Required
☒ CT RCP Required
RCP Certification Form Required
☐ MA State DW Required
PWSID #

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

NELAC and AIHA-LAP, LLC Accredited

Project Entity
Government ☐ Municipality ☐ MWRA ☐ WRTA ☐
Federal ☐ 21 J ☐ School ☐
City ☐ Brownfield ☐ MBTA ☐

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

PCB ONLY
☒ Soxhlet
☐ Non Soxhlet

Comments:
Frozen 1/3/20 16:20 DE

Disclaimer: Con-Test Labs is not responsible for any omitted information on the Chain of Custody. The Chain of Custody is a legal document that must be complete and accurate and is used to determine wha analyses the laboratory will perform. Any missing information is not the laboratory's responsibility. Cor Test values your partnership on each project and will try to assist with missing information, but will not l held accountable.

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples______________

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client TRC

Received By af Date 1/3/20 Time 16:20

How were the samples received? In Cooler T No Cooler ____ On Ice T No Ice ____

Direct from Sampling ____ Ambient ____ Melted Ice ____

Were samples within Temperature? 2-6°C T By Gun # 5 Actual Temp - 3.1

By Blank # ____ Actual Temp - ____

Was Custody Seal Intact? N/A Were Samples Tampered with? N/A

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T

Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? ____

Are there Rushes? T Who was notified? Ashly, Maria, Jessica

Are there Short Holds? T Who was notified? Maria

Is there enough Volume? T

Is there Headspace where applicable? N/A MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? N/A Acid ____ Base ____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	12
Meoh-	3	250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Flashpoint		Col./Bacteria		2oz Amb/Clear	
DI-	6	Other Glass		Other Plastic		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen: 1/3/20 16:20 DF	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

C:\MSDCHEM\4\DATA\D010620\D0106042.D

CT ETPH DISCRIMINATION CHECK

Data File Name	D0106042.D
Data File Path	C:\MSDCHEM\4\DATA\D010620\
Operator	RMW
Date Acquired	1/6/1920 20:36
Acq. Method File	EPH11D.M
Sample Name	ETPH 1500
Instrument Name	GCFID4

Name	Ret Time	Target Response	Average Response	*%D+/-20
C-9	1.57	8555391	9908189	14
C-10	2.24	8840990	9908189	11
C-12	3.19	9177146	9908189	7
C-14	3.91	9535279	9908189	4
C-16	4.52	9787020	9908189	1
C-18	5.07	10045114	9908189	-1
C-20	5.68	10279062	9908189	-4
C-22	6.43	10420162	9908189	-5
C-24	7.27	10517661	9908189	-6
C-26	8.07	10540586	9908189	-6
C-28	8.82	10560861	9908189	-7
C-30	9.50	10569287	9908189	-7
C-32	10.14	10167410	9908189	-3
C-34	10.73	10008887	9908189	-1
C-36	11.32	9617974	9908189	3

Samples

20A0108-01

20A0108-02@20X

*One compound allowed %D</=50%

C:\MSDCHEM\4\DATA\D010620\D0106092.D

CT ETPH DISCRIMINATION CHECK

Data File Name	D0106092.D
Data File Path	C:\MSDCHEM\4\DATA\D010620\
Operator	RMW
Date Acquired	1/7/1920 5:04
Acq. Method File	EPH11D.M
Sample Name	ETPH 1500
Instrument Name	GCFID4

Name	Ret Time	Target Response	Average Response	*%D+/-20
C-9	1.57	8950192	9791403	9
C-10	2.24	9287683	9791403	5
C-12	3.19	9533195	9791403	3
C-14	3.91	9776519	9791403	0
C-16	4.52	9938507	9791403	-2
C-18	5.07	10190930	9791403	-4
C-20	5.68	10436548	9791403	-7
C-22	6.42	10368250	9791403	-6
C-24	7.27	10241514	9791403	-5
C-26	8.07	10097970	9791403	-3
C-28	8.82	9951678	9791403	-2
C-30	9.50	9873050	9791403	-1
C-32	10.13	9552653	9791403	2
C-34	10.73	9476139	9791403	3
C-36	11.32	9196219	9791403	6

Samples

20A0021-05@5X
20A0108-03@50X
20A0021-13@200X
20A0021-14@200X
20A0021-15@200X

*One compound allowed %D</=50%

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: TRC Environmental Corporation - CT

Project Location: 510 Grand Ave., New Haven, CT

Project Number: 20A0108

Laboratory Sample ID(s):
20A0108-01 thru 20A0108-03

Sample Date(s):
01/03/2020

List RCP Methods Used:

CTDEP ETPH, SW-846 1311, SW-846 6010D, SW-846 7470A, SW-846 7471B, SW-846 8082A, SW-846 8260C-D, SW-846 8270D-E

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☐ Yes ☑ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☐ Yes ☑ No
5B	Were these reporting limits met?	☐ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

Lisa A. Worthington

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.

Authorized Signature: Lisa Worthington **Position:** **Technical Representative**

Printed Name: **Lisa A. Worthington** **Date:** **01/08/20**

Name of Laboratory: **Con-Test Analytical Laboratory**

This certification form is to be used for RCP methods only.

Station B Eastern Wall Roof Fill

Solid Composite Sample

Con-Test Report #20A0210

con-test®
ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

January 10, 2020

Carl Stopper
TRC Environmental Corporation - CT
21 Griffin Road North
Windsor, CT 06095

Project Location: 510 Grand Ave, New Haven, CT
Client Job Number:
Project Number: 263951.000028.000001
Laboratory Work Order Number: 20A0210

Enclosed are results of analyses for samples received by the laboratory on January 7, 2020. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kerry K. McGee

Kerry K. McGee
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

TRC Environmental Corporation - CT
21 Griffin Road North
Windsor, CT 06095
ATTN: Carl Stopper

REPORT DATE: 1/10/2020

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 263951.000028.000001

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 20A0210

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave, New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
TRC-AOC-12N-SO-04	20A0210-01	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 1030	
				SW-846 6010D	
				SW-846 7470A	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 8260C-D	
				SW-846 8270D-E	
				SW-846 9014	
				SW-846 9030A	
				SW-846 9045C	
				SW-846 9095B	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 6010, only a select list of metals was requested and reported.

SW-846 8260C-D

Qualifications:

V-16

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:

Tetrahydrofuran

20A0210-01[TRC-AOC-12N-SO-04], B249597-BLK1, B249597-BS1, S044451-CCV1

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:

Bromomethane

20A0210-01[TRC-AOC-12N-SO-04], B249597-BLK1, B249597-BS1, S044451-CCV1

SW-846 8270D-E

Qualifications:

L-07

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

2-Nitroaniline

B249496-BSD1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Tod E. Kopyscinski

Laboratory Director

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 20A0210

Date Received: 1/7/2020

Field Sample #: TRC-AOC-12N-SO-04 Sampled: 1/6/2020 15:00

Sample ID: 20A0210-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	0.37	0.13	mg/Kg dry	1		SW-846 8260C-D	1/8/20	1/8/20 8:53	EEH
Acrylonitrile	ND	0.0078	mg/Kg dry	1		SW-846 8260C-D	1/8/20	1/8/20 8:53	EEH
Benzene	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	1/8/20	1/8/20 8:53	EEH
Bromobenzene	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	1/8/20	1/8/20 8:53	EEH
Bromodichloromethane	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	1/8/20	1/8/20 8:53	EEH
Bromoform	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	1/8/20	1/8/20 8:53	EEH
Bromomethane	ND	0.013	mg/Kg dry	1	V-34	SW-846 8260C-D	1/8/20	1/8/20 8:53	EEH
2-Butanone (MEK)	ND	0.052	mg/Kg dry	1		SW-846 8260C-D	1/8/20	1/8/20 8:53	EEH
n-Butylbenzene	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	1/8/20	1/8/20 8:53	EEH
sec-Butylbenzene	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	1/8/20	1/8/20 8:53	EEH
tert-Butylbenzene	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	1/8/20	1/8/20 8:53	EEH
Carbon Disulfide	ND	0.0078	mg/Kg dry	1		SW-846 8260C-D	1/8/20	1/8/20 8:53	EEH
Carbon Tetrachloride	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	1/8/20	1/8/20 8:53	EEH
Chlorobenzene	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	1/8/20	1/8/20 8:53	EEH
Chlorodibromomethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C-D	1/8/20	1/8/20 8:53	EEH
Chloroethane	ND	0.026	mg/Kg dry	1		SW-846 8260C-D	1/8/20	1/8/20 8:53	EEH
Chloroform	ND	0.0052	mg/Kg dry	1		SW-846 8260C-D	1/8/20	1/8/20 8:53	EEH
Chloromethane	ND	0.013	mg/Kg dry	1		SW-846 8260C-D	1/8/20	1/8/20 8:53	EEH
2-Chlorotoluene	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	1/8/20	1/8/20 8:53	EEH
4-Chlorotoluene	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	1/8/20	1/8/20 8:53	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	1/8/20	1/8/20 8:53	EEH
1,2-Dibromoethane (EDB)	ND	0.0013	mg/Kg dry	1		SW-846 8260C-D	1/8/20	1/8/20 8:53	EEH
Dibromomethane	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	1/8/20	1/8/20 8:53	EEH
1,2-Dichlorobenzene	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	1/8/20	1/8/20 8:53	EEH
1,3-Dichlorobenzene	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	1/8/20	1/8/20 8:53	EEH
1,4-Dichlorobenzene	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	1/8/20	1/8/20 8:53	EEH
trans-1,4-Dichloro-2-butene	ND	0.0052	mg/Kg dry	1		SW-846 8260C-D	1/8/20	1/8/20 8:53	EEH
Dichlorodifluoromethane (Freon 12)	ND	0.026	mg/Kg dry	1		SW-846 8260C-D	1/8/20	1/8/20 8:53	EEH
1,1-Dichloroethane	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	1/8/20	1/8/20 8:53	EEH
1,2-Dichloroethane	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	1/8/20	1/8/20 8:53	EEH
1,1-Dichloroethylene	ND	0.0052	mg/Kg dry	1		SW-846 8260C-D	1/8/20	1/8/20 8:53	EEH
cis-1,2-Dichloroethylene	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	1/8/20	1/8/20 8:53	EEH
trans-1,2-Dichloroethylene	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	1/8/20	1/8/20 8:53	EEH
1,2-Dichloropropane	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	1/8/20	1/8/20 8:53	EEH
1,3-Dichloropropane	ND	0.0013	mg/Kg dry	1		SW-846 8260C-D	1/8/20	1/8/20 8:53	EEH
2,2-Dichloropropane	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	1/8/20	1/8/20 8:53	EEH
1,1-Dichloropropene	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	1/8/20	1/8/20 8:53	EEH
cis-1,3-Dichloropropene	ND	0.0013	mg/Kg dry	1		SW-846 8260C-D	1/8/20	1/8/20 8:53	EEH
trans-1,3-Dichloropropene	ND	0.0013	mg/Kg dry	1		SW-846 8260C-D	1/8/20	1/8/20 8:53	EEH
Ethylbenzene	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	1/8/20	1/8/20 8:53	EEH
Hexachlorobutadiene	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	1/8/20	1/8/20 8:53	EEH
2-Hexanone (MBK)	ND	0.026	mg/Kg dry	1		SW-846 8260C-D	1/8/20	1/8/20 8:53	EEH
Isopropylbenzene (Cumene)	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	1/8/20	1/8/20 8:53	EEH
p-Isopropyltoluene (p-Cymene)	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	1/8/20	1/8/20 8:53	EEH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT   Sample Description: Work Order: 20A0210

Date Received: 1/7/2020

Field Sample #: TRC-AOC-12N-SO-04   Sampled: 1/6/2020 15:00

Sample ID: 20A0210-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0052	mg/Kg dry	1		SW-846 8260C-D	1/8/20	1/8/20 8:53	EEH
Methylene Chloride	ND	0.026	mg/Kg dry	1		SW-846 8260C-D	1/8/20	1/8/20 8:53	EEH
4-Methyl-2-pentanone (MIBK)	ND	0.026	mg/Kg dry	1		SW-846 8260C-D	1/8/20	1/8/20 8:53	EEH
Naphthalene	ND	0.0052	mg/Kg dry	1		SW-846 8260C-D	1/8/20	1/8/20 8:53	EEH
n-Propylbenzene	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	1/8/20	1/8/20 8:53	EEH
Styrene	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	1/8/20	1/8/20 8:53	EEH
1,1,1,2-Tetrachloroethane	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	1/8/20	1/8/20 8:53	EEH
1,1,2,2-Tetrachloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C-D	1/8/20	1/8/20 8:53	EEH
Tetrachloroethylene	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	1/8/20	1/8/20 8:53	EEH
Tetrahydrofuran	ND	0.013	mg/Kg dry	1	V-16	SW-846 8260C-D	1/8/20	1/8/20 8:53	EEH
Toluene	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	1/8/20	1/8/20 8:53	EEH
1,2,3-Trichlorobenzene	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	1/8/20	1/8/20 8:53	EEH
1,2,4-Trichlorobenzene	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	1/8/20	1/8/20 8:53	EEH
1,1,1-Trichloroethane	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	1/8/20	1/8/20 8:53	EEH
1,1,2-Trichloroethane	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	1/8/20	1/8/20 8:53	EEH
Trichloroethylene	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	1/8/20	1/8/20 8:53	EEH
Trichlorofluoromethane (Freon 11)	ND	0.013	mg/Kg dry	1		SW-846 8260C-D	1/8/20	1/8/20 8:53	EEH
1,2,3-Trichloropropane	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	1/8/20	1/8/20 8:53	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.013	mg/Kg dry	1		SW-846 8260C-D	1/8/20	1/8/20 8:53	EEH
1,2,4-Trimethylbenzene	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	1/8/20	1/8/20 8:53	EEH
1,3,5-Trimethylbenzene	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	1/8/20	1/8/20 8:53	EEH
Vinyl Chloride	ND	0.013	mg/Kg dry	1		SW-846 8260C-D	1/8/20	1/8/20 8:53	EEH
m+p Xylene	ND	0.0052	mg/Kg dry	1		SW-846 8260C-D	1/8/20	1/8/20 8:53	EEH
o-Xylene	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	1/8/20	1/8/20 8:53	EEH
Xylenes (total)	ND	0.0078	mg/Kg dry	1		SW-846 8260C-D	1/8/20	1/8/20 8:53	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	90.7	70-130		1/8/20 8:53
Toluene-d8	97.8	70-130		1/8/20 8:53
4-Bromofluorobenzene	100	70-130		1/8/20 8:53

Table of Contents

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT   Sample Description: Work Order: 20A0210

Date Received: 1/7/2020

Field Sample #: TRC-AOC-12N-SO-04   Sampled: 1/6/2020 15:00

Sample ID: 20A0210-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/7/20	1/8/20 13:01	IMR
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/7/20	1/8/20 13:01	IMR
Aniline	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/7/20	1/8/20 13:01	IMR
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/7/20	1/8/20 13:01	IMR
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/7/20	1/8/20 13:01	IMR
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/7/20	1/8/20 13:01	IMR
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/7/20	1/8/20 13:01	IMR
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/7/20	1/8/20 13:01	IMR
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/7/20	1/8/20 13:01	IMR
Bis(2-chloroethoxy)methane	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/7/20	1/8/20 13:01	IMR
Bis(2-chloroethyl)ether	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/7/20	1/8/20 13:01	IMR
Bis(2-chloroisopropyl)ether	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/7/20	1/8/20 13:01	IMR
Bis(2-Ethylhexyl)phthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/7/20	1/8/20 13:01	IMR
4-Bromophenylphenylether	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/7/20	1/8/20 13:01	IMR
Butylbenzylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/7/20	1/8/20 13:01	IMR
Carbazole	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/7/20	1/8/20 13:01	IMR
4-Chloroaniline	ND	0.70	mg/Kg dry	1		SW-846 8270D-E	1/7/20	1/8/20 13:01	IMR
4-Chloro-3-methylphenol	ND	0.70	mg/Kg dry	1		SW-846 8270D-E	1/7/20	1/8/20 13:01	IMR
2-Chloronaphthalene	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/7/20	1/8/20 13:01	IMR
2-Chlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/7/20	1/8/20 13:01	IMR
4-Chlorophenylphenylether	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/7/20	1/8/20 13:01	IMR
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/7/20	1/8/20 13:01	IMR
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/7/20	1/8/20 13:01	IMR
Dibenzofuran	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/7/20	1/8/20 13:01	IMR
Di-n-butylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/7/20	1/8/20 13:01	IMR
3,3-Dichlorobenzidine	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/7/20	1/8/20 13:01	IMR
2,4-Dichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/7/20	1/8/20 13:01	IMR
Diethylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/7/20	1/8/20 13:01	IMR
2,4-Dimethylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/7/20	1/8/20 13:01	IMR
Dimethylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/7/20	1/8/20 13:01	IMR
4,6-Dinitro-2-methylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/7/20	1/8/20 13:01	IMR
2,4-Dinitrophenol	ND	0.70	mg/Kg dry	1		SW-846 8270D-E	1/7/20	1/8/20 13:01	IMR
2,4-Dinitrotoluene	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/7/20	1/8/20 13:01	IMR
2,6-Dinitrotoluene	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/7/20	1/8/20 13:01	IMR
Di-n-octylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/7/20	1/8/20 13:01	IMR
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/7/20	1/8/20 13:01	IMR
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/7/20	1/8/20 13:01	IMR
Hexachlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/7/20	1/8/20 13:01	IMR
Hexachlorobutadiene	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/7/20	1/8/20 13:01	IMR
Hexachlorocyclopentadiene	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/7/20	1/8/20 13:01	IMR
Hexachloroethane	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/7/20	1/8/20 13:01	IMR
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/7/20	1/8/20 13:01	IMR
Isophorone	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/7/20	1/8/20 13:01	IMR
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/7/20	1/8/20 13:01	IMR

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT   Sample Description: Work Order: 20A0210

Date Received: 1/7/2020

Field Sample #: TRC-AOC-12N-SO-04   Sampled: 1/6/2020 15:00

Sample ID: 20A0210-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/7/20	1/8/20 13:01	IMR
3/4-Methylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/7/20	1/8/20 13:01	IMR
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/7/20	1/8/20 13:01	IMR
2-Nitroaniline	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/7/20	1/8/20 13:01	IMR
3-Nitroaniline	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/7/20	1/8/20 13:01	IMR
4-Nitroaniline	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/7/20	1/8/20 13:01	IMR
Nitrobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/7/20	1/8/20 13:01	IMR
2-Nitrophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/7/20	1/8/20 13:01	IMR
4-Nitrophenol	ND	0.70	mg/Kg dry	1		SW-846 8270D-E	1/7/20	1/8/20 13:01	IMR
N-Nitrosodiphenylamine/Diphenylamine	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/7/20	1/8/20 13:01	IMR
N-Nitrosodi-n-propylamine	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/7/20	1/8/20 13:01	IMR
Pentachloronitrobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/7/20	1/8/20 13:01	IMR
Pentachlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/7/20	1/8/20 13:01	IMR
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/7/20	1/8/20 13:01	IMR
Phenol	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/7/20	1/8/20 13:01	IMR
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D-E	1/7/20	1/8/20 13:01	IMR
Pyridine	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/7/20	1/8/20 13:01	IMR
1,2,4,5-Tetrachlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/7/20	1/8/20 13:01	IMR
1,2,4-Trichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/7/20	1/8/20 13:01	IMR
2,4,5-Trichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/7/20	1/8/20 13:01	IMR
2,4,6-Trichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D-E	1/7/20	1/8/20 13:01	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	78.6	30-130		1/8/20 13:01
Phenol-d6	81.7	30-130		1/8/20 13:01
Nitrobenzene-d5	78.3	30-130		1/8/20 13:01
2-Fluorobiphenyl	95.4	30-130		1/8/20 13:01
2,4,6-Tribromophenol	82.9	30-130		1/8/20 13:01
p-Terphenyl-d14	74.2	30-130		1/8/20 13:01

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT   Sample Description: Work Order: 20A0210

Date Received: 1/7/2020

Field Sample #: TRC-AOC-12N-SO-04   Sampled: 1/6/2020 15:00

Sample ID: 20A0210-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	1/7/20	1/8/20 16:55	JMB
Aroclor-1221 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	1/7/20	1/8/20 16:55	JMB
Aroclor-1232 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	1/7/20	1/8/20 16:55	JMB
Aroclor-1242 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	1/7/20	1/8/20 16:55	JMB
Aroclor-1248 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	1/7/20	1/8/20 16:55	JMB
Aroclor-1254 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	1/7/20	1/8/20 16:55	JMB
Aroclor-1260 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	1/7/20	1/8/20 16:55	JMB
Aroclor-1262 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	1/7/20	1/8/20 16:55	JMB
Aroclor-1268 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	1/7/20	1/8/20 16:55	JMB
Total PCB Aroclors [1]	0.0		mg/Kg dry	4		SW-846 8082A	1/7/20	1/8/20 16:55	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	Date/Time Analyzed
Decachlorobiphenyl [1]	90.8	30-150		1/8/20 16:55
Decachlorobiphenyl [2]	93.7	30-150		1/8/20 16:55
Tetrachloro-m-xylene [1]	86.9	30-150		1/8/20 16:55
Tetrachloro-m-xylene [2]	88.4	30-150		1/8/20 16:55

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 20A0210

Date Received: 1/7/2020

Field Sample #: TRC-AOC-12N-SO-04 Sampled: 1/6/2020 15:00

Sample ID: 20A0210-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	44	11	mg/Kg dry	1		CTDEP ETPH	1/8/20	1/9/20 10:31	KLB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorobiphenyl	63.6	50-150		1/9/20 10:31

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Project Location: 510 Grand Ave, New Haven, CT   Sample Description: Work Order: 20A0210

Date Received: 1/7/2020

Field Sample #: TRC-AOC-12N-SO-04   Sampled: 1/6/2020 15:00

Sample ID: 20A0210-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	1.8	mg/Kg dry	1		SW-846 6010D	1/8/20	1/8/20 14:34	MJH
Barium	17	1.7	mg/Kg dry	1		SW-846 6010D	1/9/20	1/10/20 12:09	TBC
Cadmium	ND	0.17	mg/Kg dry	1		SW-846 6010D	1/9/20	1/10/20 12:09	TBC
Chromium	4.5	0.35	mg/Kg dry	1		SW-846 6010D	1/9/20	1/10/20 12:09	TBC
Lead	4.8	0.53	mg/Kg dry	1		SW-846 6010D	1/8/20	1/8/20 14:34	MJH
Mercury	ND	0.026	mg/Kg dry	1		SW-846 7471B	1/8/20	1/9/20 10:47	CJV
Selenium	ND	3.5	mg/Kg dry	1		SW-846 6010D	1/9/20	1/10/20 12:09	TBC
Silver	ND	0.35	mg/Kg dry	1		SW-846 6010D	1/8/20	1/8/20 14:34	MJH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 20A0210

Date Received: 1/7/2020

Field Sample #: TRC-AOC-12N-SO-04 Sampled: 1/6/2020 15:00

Sample ID: 20A0210-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.0		% Wt	1		SM 2540G	1/7/20	1/7/20 22:46	AVF
Free Liquid	Absent		present/absent	1		SW-846 9095B	1/9/20	1/9/20 7:20	LL
Ignitability	Absent		present/absent	1		SW-846 1030	1/8/20	1/8/20 12:40	DJM
pH @20.9°C	7.9		pH Units	1		SW-846 9045C	1/7/20	1/7/20 14:35	KMV
Reactive Cyanide	ND	3.9	mg/Kg	1		SW-846 9014	1/8/20	1/8/20 12:00	DJM
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	1/8/20	1/8/20 11:30	DJM

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Project Location: 510 Grand Ave, New Haven, CT   Sample Description: Work Order: 20A0210

Date Received: 1/7/2020

Field Sample #: TRC-AOC-12N-SO-04   Sampled: 1/6/2020 15:00

Sample ID: 20A0210-01

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	0.050	mg/L	1		SW-846 6010D	1/8/20	1/9/20 12:00	TBC
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	1/9/20	1/9/20 10:33	CJV
Barium	ND	0.50	mg/L	1		SW-846 6010D	1/8/20	1/9/20 12:00	TBC
Cadmium	ND	0.010	mg/L	1		SW-846 6010D	1/8/20	1/9/20 12:00	TBC
Chromium	ND	0.050	mg/L	1		SW-846 6010D	1/8/20	1/9/20 12:00	TBC
Lead	ND	0.10	mg/L	1		SW-846 6010D	1/8/20	1/9/20 12:00	TBC
Selenium	ND	0.050	mg/L	1		SW-846 6010D	1/8/20	1/9/20 12:00	TBC
Silver	ND	0.050	mg/L	1		SW-846 6010D	1/8/20	1/9/20 12:00	TBC

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0210-01 [TRC-AOC-12N-SO-04]	B249578	30.0	1.00	01/08/20

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
20A0210-01 [TRC-AOC-12N-SO-04]	B249571	01/07/20

SW-846 1030

Lab Number [Field ID]	Batch	Initial [g]	Date
20A0210-01 [TRC-AOC-12N-SO-04]	B249700	50.0	01/08/20

Prep Method: SW-846 3051-SW-846 6010D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0210-01 [TRC-AOC-12N-SO-04]	B249606	1.50	50.0	01/08/20

Prep Method: SW-846 3051-SW-846 6010D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0210-01RE1 [TRC-AOC-12N-SO-04]	B249716	1.54	50.0	01/09/20

Prep Method: SW-846 3010A-SW-846 6010D **Leachates were extracted on 1/7/2020 per SW-846 1311 in Batch B249546**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
20A0210-01 [TRC-AOC-12N-SO-04]	B249641	50.0	50.0	01/08/20

Prep Method: SW-846 7470A Prep-SW-846 7470A **Leachates were extracted on 1/7/2020 per SW-846 1311 in Batch B249546**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
20A0210-01 [TRC-AOC-12N-SO-04]	B249685	6.00	6.00	01/09/20

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0210-01 [TRC-AOC-12N-SO-04]	B249613	0.612	50.0	01/08/20

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0210-01 [TRC-AOC-12N-SO-04]	B249575	10.0	10.0	01/07/20

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 5035-SW-846 8260C-D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0210-01 [TRC-AOC-12N-SO-04]	B249597	4.08	10.0	01/08/20

Prep Method: SW-846 3546-SW-846 8270D-E

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0210-01 [TRC-AOC-12N-SO-04]	B249496	30.0	1.00	01/07/20

SW-846 9014

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0210-01 [TRC-AOC-12N-SO-04]	B249603	25.4	250	01/08/20

SW-846 9030A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0210-01 [TRC-AOC-12N-SO-04]	B249604	25.4	250	01/08/20

SW-846 9045C

Lab Number [Field ID]	Batch	Initial [g]	Date
20A0210-01 [TRC-AOC-12N-SO-04]	B249565	20.0	01/07/20

SW-846 9095B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0210-01 [TRC-AOC-12N-SO-04]	B249675	100	100	01/09/20

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B249597 - SW-846 5035										
Blank (B249597-BLK1)				Prepared & Analyzed: 01/08/20						
Acetone	ND	0.10	mg/Kg wet							
Acrylonitrile	ND	0.0060	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							V-34
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
trans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B249597 - SW-846 5035										
Blank (B249597-BLK1)				Prepared & Analyzed: 01/08/20						
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							V-16
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Xylenes (total)	ND	0.0060	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	*0.0438*		mg/Kg wet	0.0500		87.6	70-130			
Surrogate: Toluene-d8	*0.0490*		mg/Kg wet	0.0500		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0512*		mg/Kg wet	0.0500		102	70-130			
LCS (B249597-BS1)				Prepared & Analyzed: 01/08/20						
Acetone	0.176	0.10	mg/Kg wet	0.200		87.8	40-160			
Acrylonitrile	0.0180	0.0060	mg/Kg wet	0.0200		90.1	70-130			
Benzene	0.0175	0.0020	mg/Kg wet	0.0200		87.6	70-130			
Bromobenzene	0.0189	0.0020	mg/Kg wet	0.0200		94.3	70-130			
Bromodichloromethane	0.0170	0.0020	mg/Kg wet	0.0200		85.1	70-130			
Bromoform	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130			
Bromomethane	0.0171	0.010	mg/Kg wet	0.0200		85.7	40-160			V-34
2-Butanone (MEK)	0.186	0.040	mg/Kg wet	0.200		93.0	40-160			
n-Butylbenzene	0.0158	0.0020	mg/Kg wet	0.0200		78.9	70-130			
sec-Butylbenzene	0.0182	0.0020	mg/Kg wet	0.0200		90.8	70-130			
tert-Butylbenzene	0.0184	0.0020	mg/Kg wet	0.0200		92.0	70-130			
Carbon Disulfide	0.174	0.0060	mg/Kg wet	0.200		87.2	70-130			
Carbon Tetrachloride	0.0182	0.0020	mg/Kg wet	0.0200		91.2	70-130			
Chlorobenzene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
Chlorodibromomethane	0.0198	0.0010	mg/Kg wet	0.0200		98.8	40-160			
Chloroethane	0.0167	0.020	mg/Kg wet	0.0200		83.7	70-130			
Chloroform	0.0173	0.0040	mg/Kg wet	0.0200		86.4	70-130			
Chloromethane	0.0161	0.010	mg/Kg wet	0.0200		80.3	40-160			
2-Chlorotoluene	0.0191	0.0020	mg/Kg wet	0.0200		95.7	70-130			
4-Chlorotoluene	0.0179	0.0020	mg/Kg wet	0.0200		89.6	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0186	0.0020	mg/Kg wet	0.0200		93.2	70-130			
1,2-Dibromoethane (EDB)	0.0199	0.0010	mg/Kg wet	0.0200		99.3	70-130			
Dibromomethane	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130			
1,2-Dichlorobenzene	0.0189	0.0020	mg/Kg wet	0.0200		94.4	70-130			
1,3-Dichlorobenzene	0.0187	0.0020	mg/Kg wet	0.0200		93.3	70-130			
1,4-Dichlorobenzene	0.0186	0.0020	mg/Kg wet	0.0200		92.8	70-130			
trans-1,4-Dichloro-2-butene	0.0179	0.0040	mg/Kg wet	0.0200		89.3	70-130			
Dichlorodifluoromethane (Freon 12)	0.0185	0.020	mg/Kg wet	0.0200		92.5	40-160			
1,1-Dichloroethane	0.0177	0.0020	mg/Kg wet	0.0200		88.6	70-130			
1,2-Dichloroethane	0.0186	0.0020	mg/Kg wet	0.0200		93.2	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B249597 - SW-846 5035										
LCS (B249597-BS1)				Prepared & Analyzed: 01/08/20						
1,1-Dichloroethylene	0.0163	0.0040	mg/Kg wet	0.0200		81.6	70-130			
cis-1,2-Dichloroethylene	0.0171	0.0020	mg/Kg wet	0.0200		85.7	70-130			
trans-1,2-Dichloroethylene	0.0172	0.0020	mg/Kg wet	0.0200		86.1	70-130			
1,2-Dichloropropane	0.0185	0.0020	mg/Kg wet	0.0200		92.6	70-130			
1,3-Dichloropropane	0.0194	0.0010	mg/Kg wet	0.0200		97.1	70-130			
2,2-Dichloropropane	0.0163	0.0020	mg/Kg wet	0.0200		81.7	70-130			
1,1-Dichloropropene	0.0172	0.0020	mg/Kg wet	0.0200		86.0	70-130			
cis-1,3-Dichloropropene	0.0193	0.0010	mg/Kg wet	0.0200		96.4	70-130			
trans-1,3-Dichloropropene	0.0185	0.0010	mg/Kg wet	0.0200		92.7	70-130			
Ethylbenzene	0.0178	0.0020	mg/Kg wet	0.0200		89.1	70-130			
Hexachlorobutadiene	0.0186	0.0020	mg/Kg wet	0.0200		93.2	40-160			
2-Hexanone (MBK)	0.183	0.020	mg/Kg wet	0.200		91.6	70-130			
Isopropylbenzene (Cumene)	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
p-Isopropyltoluene (p-Cymene)	0.0175	0.0020	mg/Kg wet	0.0200		87.7	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0181	0.0040	mg/Kg wet	0.0200		90.3	70-130			
Methylene Chloride	0.0179	0.020	mg/Kg wet	0.0200		89.3	70-130			
4-Methyl-2-pentanone (MIBK)	0.181	0.020	mg/Kg wet	0.200		90.6	40-160			
Naphthalene	0.0173	0.0040	mg/Kg wet	0.0200		86.5	70-130			
n-Propylbenzene	0.0179	0.0020	mg/Kg wet	0.0200		89.6	70-130			
Styrene	0.0200	0.0020	mg/Kg wet	0.0200		99.9	70-130			
1,1,1,2-Tetrachloroethane	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130			
1,1,2,2-Tetrachloroethane	0.0199	0.0010	mg/Kg wet	0.0200		99.5	70-130			
Tetrachloroethylene	0.0198	0.0020	mg/Kg wet	0.0200		99.1	70-130			
Tetrahydrofuran	0.0220	0.010	mg/Kg wet	0.0200		110	70-130			V-16
Toluene	0.0182	0.0020	mg/Kg wet	0.0200		91.1	70-130			
1,2,3-Trichlorobenzene	0.0190	0.0020	mg/Kg wet	0.0200		95.1	70-130			
1,2,4-Trichlorobenzene	0.0187	0.0020	mg/Kg wet	0.0200		93.6	70-130			
1,1,1-Trichloroethane	0.0171	0.0020	mg/Kg wet	0.0200		85.7	70-130			
1,1,2-Trichloroethane	0.0182	0.0020	mg/Kg wet	0.0200		90.8	70-130			
Trichloroethylene	0.0184	0.0020	mg/Kg wet	0.0200		92.2	70-130			
Trichlorofluoromethane (Freon 11)	0.0178	0.010	mg/Kg wet	0.0200		88.9	40-160			
1,2,3-Trichloropropane	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0184	0.010	mg/Kg wet	0.0200		92.0	70-130			
1,2,4-Trimethylbenzene	0.0172	0.0020	mg/Kg wet	0.0200		85.8	70-130			
1,3,5-Trimethylbenzene	0.0185	0.0020	mg/Kg wet	0.0200		92.6	70-130			
Vinyl Chloride	0.0167	0.010	mg/Kg wet	0.0200		83.4	70-130			
m+p Xylene	0.0364	0.0040	mg/Kg wet	0.0400		91.1	70-130			
o-Xylene	0.0182	0.0020	mg/Kg wet	0.0200		91.0	70-130			
Xylenes (total)	0.0546	0.0060	mg/Kg wet	0.0600		91.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0437*		mg/Kg wet	0.0500		87.5	70-130			
Surrogate: Toluene-d8	*0.0494*		mg/Kg wet	0.0500		98.7	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0510*		mg/Kg wet	0.0500		102	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B249496 - SW-846 3546										
LCS (B249496-BS1)				Prepared & Analyzed: 01/07/20						
Acenaphthene	1.36	0.17	mg/Kg wet	1.67		81.4	40-140			
Acenaphthylene	1.34	0.17	mg/Kg wet	1.67		80.7	40-140			
Aniline	1.02	0.34	mg/Kg wet	1.67		61.3	40-140			†
Anthracene	1.42	0.17	mg/Kg wet	1.67		85.1	40-140			
Benzo(a)anthracene	1.43	0.17	mg/Kg wet	1.67		85.7	40-140			
Benzo(a)pyrene	1.38	0.17	mg/Kg wet	1.67		82.5	40-140			
Benzo(b)fluoranthene	1.40	0.17	mg/Kg wet	1.67		84.2	40-140			
Benzo(g,h,i)perylene	1.37	0.17	mg/Kg wet	1.67		82.0	40-140			
Benzo(k)fluoranthene	1.46	0.17	mg/Kg wet	1.67		87.4	40-140			
Bis(2-chloroethoxy)methane	1.41	0.34	mg/Kg wet	1.67		84.7	40-140			
Bis(2-chloroethyl)ether	1.33	0.34	mg/Kg wet	1.67		79.7	40-140			
Bis(2-chloroisopropyl)ether	1.60	0.34	mg/Kg wet	1.67		95.9	40-140			
Bis(2-Ethylhexyl)phthalate	1.37	0.34	mg/Kg wet	1.67		82.2	40-140			
4-Bromophenylphenylether	1.45	0.34	mg/Kg wet	1.67		86.9	40-140			
Butylbenzylphthalate	1.36	0.34	mg/Kg wet	1.67		81.3	40-140			
Carbazole	1.33	0.17	mg/Kg wet	1.67		79.8	40-140			
4-Chloroaniline	0.921	0.66	mg/Kg wet	1.67		55.3	40-140			†
4-Chloro-3-methylphenol	1.39	0.66	mg/Kg wet	1.67		83.7	30-130			
2-Chloronaphthalene	1.25	0.34	mg/Kg wet	1.67		74.7	40-140			
2-Chlorophenol	1.29	0.34	mg/Kg wet	1.67		77.4	30-130			
4-Chlorophenylphenylether	1.40	0.34	mg/Kg wet	1.67		84.0	40-140			
Chrysene	1.42	0.17	mg/Kg wet	1.67		85.4	40-140			
Dibenz(a,h)anthracene	1.31	0.17	mg/Kg wet	1.67		78.7	40-140			
Dibenzofuran	1.42	0.34	mg/Kg wet	1.67		85.1	40-140			
Di-n-butylphthalate	1.33	0.34	mg/Kg wet	1.67		80.0	40-140			
3,3-Dichlorobenzidine	1.17	0.17	mg/Kg wet	1.67		70.3	40-140			†
2,4-Dichlorophenol	1.39	0.34	mg/Kg wet	1.67		83.2	30-130			
Diethylphthalate	1.36	0.34	mg/Kg wet	1.67		81.6	40-140			
2,4-Dimethylphenol	1.33	0.34	mg/Kg wet	1.67		79.5	30-130			
Dimethylphthalate	1.36	0.34	mg/Kg wet	1.67		81.6	40-140			
4,6-Dinitro-2-methylphenol	1.35	0.34	mg/Kg wet	1.67		80.7	30-130			
2,4-Dinitrophenol	1.19	0.66	mg/Kg wet	1.67		71.5	30-130			
2,4-Dinitrotoluene	1.43	0.34	mg/Kg wet	1.67		85.9	40-140			
2,6-Dinitrotoluene	1.46	0.34	mg/Kg wet	1.67		87.5	40-140			
Di-n-octylphthalate	1.38	0.34	mg/Kg wet	1.67		82.6	40-140			
Fluoranthene	1.34	0.17	mg/Kg wet	1.67		80.6	40-140			
Fluorene	1.42	0.17	mg/Kg wet	1.67		85.1	40-140			
Hexachlorobenzene	1.47	0.34	mg/Kg wet	1.67		88.4	40-140			
Hexachlorobutadiene	1.22	0.34	mg/Kg wet	1.67		73.2	40-140			
Hexachlorocyclopentadiene	1.20	0.34	mg/Kg wet	1.67		71.9	30-140			
Hexachloroethane	1.15	0.34	mg/Kg wet	1.67		69.1	40-140			
Indeno(1,2,3-cd)pyrene	1.38	0.17	mg/Kg wet	1.67		82.9	40-140			
Isophorone	1.42	0.34	mg/Kg wet	1.67		85.5	40-140			
2-Methylnaphthalene	1.49	0.17	mg/Kg wet	1.67		89.5	40-140			
2-Methylphenol	1.28	0.34	mg/Kg wet	1.67		76.9	30-130			
3/4-Methylphenol	1.37	0.34	mg/Kg wet	1.67		82.1	30-130			
Naphthalene	1.30	0.17	mg/Kg wet	1.67		78.1	40-140			
2-Nitroaniline	1.84	0.34	mg/Kg wet	1.67		110	40-140			
3-Nitroaniline	1.14	0.34	mg/Kg wet	1.67		68.7	40-140			†
4-Nitroaniline	1.40	0.34	mg/Kg wet	1.67		83.9	40-140			
Nitrobenzene	1.33	0.34	mg/Kg wet	1.67		79.9	40-140			
2-Nitrophenol	1.35	0.34	mg/Kg wet	1.67		81.2	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B249496 - SW-846 3546										
LCS (B249496-BS1)				Prepared & Analyzed: 01/07/20						
4-Nitrophenol	1.43	0.66	mg/Kg wet	1.67		85.7	10-130			
N-Nitrosodiphenylamine/Diphenylamine	1.50	0.34	mg/Kg wet	1.67		90.0	40-140			
N-Nitrosodi-n-propylamine	1.41	0.34	mg/Kg wet	1.67		84.9	40-140			
Pentachloronitrobenzene	1.54	0.34	mg/Kg wet	1.67		92.7	40-140			
Pentachlorophenol	1.34	0.34	mg/Kg wet	1.67		80.5	30-130			
Phenanthrene	1.42	0.17	mg/Kg wet	1.67		85.3	40-140			
Phenol	1.31	0.34	mg/Kg wet	1.67		78.5	20-130			
Pyrene	1.34	0.17	mg/Kg wet	1.67		80.5	40-140			
Pyridine	0.737	0.34	mg/Kg wet	1.67		44.2	10-140			†
1,2,4,5-Tetrachlorobenzene	1.33	0.34	mg/Kg wet	1.67		79.9	40-140			
1,2,4-Trichlorobenzene	1.26	0.34	mg/Kg wet	1.67		75.7	40-140			
2,4,5-Trichlorophenol	1.35	0.34	mg/Kg wet	1.67		80.9	30-130			
2,4,6-Trichlorophenol	1.37	0.34	mg/Kg wet	1.67		82.1	30-130			
Surrogate: 2-Fluorophenol	*5.42*		mg/Kg wet	6.67		81.3	30-130			
Surrogate: Phenol-d6	*5.81*		mg/Kg wet	6.67		87.1	30-130			
Surrogate: Nitrobenzene-d5	*2.74*		mg/Kg wet	3.33		82.3	30-130			
Surrogate: 2-Fluorobiphenyl	*3.36*		mg/Kg wet	3.33		101	30-130			
Surrogate: 2,4,6-Tribromophenol	*6.33*		mg/Kg wet	6.67		94.9	30-130			
Surrogate: p-Terphenyl-d14	*2.84*		mg/Kg wet	3.33		85.1	30-130			
LCS Dup (B249496-BSD1)				Prepared & Analyzed: 01/07/20						
Acenaphthene	1.71	0.17	mg/Kg wet	1.67		103	40-140	22.9	30	
Acenaphthylene	1.70	0.17	mg/Kg wet	1.67		102	40-140	23.6	30	
Aniline	1.26	0.34	mg/Kg wet	1.67		75.8	40-140	21.2	50	† ‡
Anthracene	1.82	0.17	mg/Kg wet	1.67		109	40-140	25.0	30	
Benzo(a)anthracene	1.77	0.17	mg/Kg wet	1.67		106	40-140	21.1	30	
Benzo(a)pyrene	1.76	0.17	mg/Kg wet	1.67		106	40-140	24.5	30	
Benzo(b)fluoranthene	1.78	0.17	mg/Kg wet	1.67		107	40-140	23.8	30	
Benzo(g,h,i)perylene	1.69	0.17	mg/Kg wet	1.67		102	40-140	21.4	30	
Benzo(k)fluoranthene	1.83	0.17	mg/Kg wet	1.67		110	40-140	22.8	30	
Bis(2-chloroethoxy)methane	1.72	0.34	mg/Kg wet	1.67		103	40-140	19.9	30	
Bis(2-chloroethyl)ether	1.65	0.34	mg/Kg wet	1.67		98.9	40-140	21.5	30	
Bis(2-chloroisopropyl)ether	1.96	0.34	mg/Kg wet	1.67		118	40-140	20.3	30	
Bis(2-Ethylhexyl)phthalate	1.61	0.34	mg/Kg wet	1.67		96.4	40-140	16.0	30	
4-Bromophenylphenylether	1.75	0.34	mg/Kg wet	1.67		105	40-140	19.1	30	
Butylbenzylphthalate	1.64	0.34	mg/Kg wet	1.67		98.2	40-140	18.8	30	
Carbazole	1.77	0.17	mg/Kg wet	1.67		106	40-140	28.3	30	
4-Chloroaniline	1.19	0.66	mg/Kg wet	1.67		71.3	40-140	25.3	30	†
4-Chloro-3-methylphenol	1.79	0.66	mg/Kg wet	1.67		107	30-130	24.8	30	
2-Chloronaphthalene	1.59	0.34	mg/Kg wet	1.67		95.2	40-140	24.1	30	
2-Chlorophenol	1.61	0.34	mg/Kg wet	1.67		96.7	30-130	22.1	30	
4-Chlorophenylphenylether	1.71	0.34	mg/Kg wet	1.67		102	40-140	19.7	30	
Chrysene	1.77	0.17	mg/Kg wet	1.67		106	40-140	21.5	30	
Dibenz(a,h)anthracene	1.63	0.17	mg/Kg wet	1.67		97.5	40-140	21.4	30	
Dibenzofuran	1.77	0.34	mg/Kg wet	1.67		106	40-140	22.3	30	
Di-n-butylphthalate	1.67	0.34	mg/Kg wet	1.67		99.9	40-140	22.2	30	
3,3-Dichlorobenzidine	1.44	0.17	mg/Kg wet	1.67		86.3	40-140	20.5	30	† ‡
2,4-Dichlorophenol	1.76	0.34	mg/Kg wet	1.67		106	30-130	23.7	30	
Diethylphthalate	1.71	0.34	mg/Kg wet	1.67		103	40-140	22.7	30	
2,4-Dimethylphenol	1.69	0.34	mg/Kg wet	1.67		101	30-130	24.0	30	
Dimethylphthalate	1.71	0.34	mg/Kg wet	1.67		103	40-140	22.8	50	
4,6-Dinitro-2-methylphenol	1.70	0.34	mg/Kg wet	1.67		102	30-130	23.4	50	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B249496 - SW-846 3546												
LCS Dup (B249496-BSD1)				Prepared & Analyzed: 01/07/20								
2,4-Dinitrophenol	1.51	0.66	mg/Kg wet	1.67		90.6		30-130	23.5	50		
2,4-Dinitrotoluene	1.81	0.34	mg/Kg wet	1.67		109		40-140	23.4	30		
2,6-Dinitrotoluene	1.83	0.34	mg/Kg wet	1.67		110		40-140	22.4	30		
Di-n-octylphthalate	1.65	0.34	mg/Kg wet	1.67		98.9		40-140	17.9	30		
Fluoranthene	1.81	0.17	mg/Kg wet	1.67		109		40-140	29.5	30		
Fluorene	1.84	0.17	mg/Kg wet	1.67		110		40-140	26.0	30		
Hexachlorobenzene	1.78	0.34	mg/Kg wet	1.67		107		40-140	18.7	30		
Hexachlorobutadiene	1.52	0.34	mg/Kg wet	1.67		91.1		40-140	21.8	30		
Hexachlorocyclopentadiene	1.45	0.34	mg/Kg wet	1.67		86.7		30-140	18.8	50		
Hexachloroethane	1.44	0.34	mg/Kg wet	1.67		86.3		40-140	22.1	50		
Indeno(1,2,3-cd)pyrene	1.71	0.17	mg/Kg wet	1.67		103		40-140	21.3	50		
Isophorone	1.79	0.34	mg/Kg wet	1.67		108		40-140	22.8	30		
2-Methylnaphthalene	1.85	0.17	mg/Kg wet	1.67		111		40-140	21.4	30		
2-Methylphenol	1.64	0.34	mg/Kg wet	1.67		98.5		30-130	24.6	30		
3/4-Methylphenol	1.72	0.34	mg/Kg wet	1.67		103		30-130	22.8	30		
Naphthalene	1.61	0.17	mg/Kg wet	1.67		96.6		40-140	21.3	30		
2-Nitroaniline	2.36	0.34	mg/Kg wet	1.67		**142**	*	40-140	24.7	30	L-07	
3-Nitroaniline	1.52	0.34	mg/Kg wet	1.67		91.0		40-140	27.9	30		†
4-Nitroaniline	1.86	0.34	mg/Kg wet	1.67		112		40-140	28.4	30		
Nitrobenzene	1.66	0.34	mg/Kg wet	1.67		99.5		40-140	21.9	30		
2-Nitrophenol	1.72	0.34	mg/Kg wet	1.67		103		30-130	24.1	30		
4-Nitrophenol	1.86	0.66	mg/Kg wet	1.67		112		10-130	26.3	50		‡
N-Nitrosodiphenylamine/Diphenylamine	1.85	0.34	mg/Kg wet	1.67		111		40-140	20.9	30		
N-Nitrosodi-n-propylamine	1.74	0.34	mg/Kg wet	1.67		105		40-140	20.9	30		
Pentachloronitrobenzene	1.93	0.34	mg/Kg wet	1.67		116		40-140	22.3	30		
Pentachlorophenol	1.74	0.34	mg/Kg wet	1.67		104		30-130	25.9	50		
Phenanthrene	1.80	0.17	mg/Kg wet	1.67		108		40-140	23.5	30		
Phenol	1.65	0.34	mg/Kg wet	1.67		99.2		20-130	23.3	30		
Pyrene	1.64	0.17	mg/Kg wet	1.67		98.6		40-140	20.2	30		
Pyridine	0.979	0.34	mg/Kg wet	1.67		58.7		10-140	28.2	50		†
1,2,4,5-Tetrachlorobenzene	1.61	0.34	mg/Kg wet	1.67		96.5		40-140	18.8	30		
1,2,4-Trichlorobenzene	1.57	0.34	mg/Kg wet	1.67		94.1		40-140	21.7	30		
2,4,5-Trichlorophenol	1.69	0.34	mg/Kg wet	1.67		101		30-130	22.5	30		
2,4,6-Trichlorophenol	1.72	0.34	mg/Kg wet	1.67		103		30-130	22.9	50		
Surrogate: 2-Fluorophenol	*7.06*		mg/Kg wet	6.67		106		30-130				
Surrogate: Phenol-d6	*7.52*		mg/Kg wet	6.67		113		30-130				
Surrogate: Nitrobenzene-d5	*3.52*		mg/Kg wet	3.33		106		30-130				
Surrogate: 2-Fluorobiphenyl	*4.23*		mg/Kg wet	3.33		127		30-130				
Surrogate: 2,4,6-Tribromophenol	*7.99*		mg/Kg wet	6.67		120		30-130				
Surrogate: p-Terphenyl-d14	*3.40*		mg/Kg wet	3.33		102		30-130				

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B249575 - SW-846 3540C										
Blank (B249575-BLK1)				Prepared: 01/07/20 Analyzed: 01/08/20						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Total PCB Aroclors	0.0		mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.202*		mg/Kg wet	0.200		101	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.206*		mg/Kg wet	0.200		103	30-150			
Surrogate: Tetrachloro-m-xylene	*0.198*		mg/Kg wet	0.200		98.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.199*		mg/Kg wet	0.200		99.5	30-150			
LCS (B249575-BS1)				Prepared: 01/07/20 Analyzed: 01/08/20						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		87.3	40-140			
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		86.4	40-140			
Aroclor-1254	ND	0.020	mg/Kg wet				40-140			
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet				40-140			
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		86.7	40-140			
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		86.9	40-140			
Surrogate: Decachlorobiphenyl	*0.192*		mg/Kg wet	0.200		95.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.196*		mg/Kg wet	0.200		98.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.184*		mg/Kg wet	0.200		92.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.186*		mg/Kg wet	0.200		92.9	30-150			
LCS Dup (B249575-BSD1)				Prepared: 01/07/20 Analyzed: 01/08/20						
Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		89.6	40-140	2.59	30	
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		89.1	40-140	3.02	30	
Aroclor-1254	ND	0.020	mg/Kg wet				40-140	NC	30	
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet				40-140	NC	30	
Aroclor-1260	0.18	0.020	mg/Kg wet	0.200		88.4	40-140	1.90	30	
Aroclor-1260 [2C]	0.18	0.020	mg/Kg wet	0.200		88.9	40-140	2.21	30	
Surrogate: Decachlorobiphenyl	*0.199*		mg/Kg wet	0.200		99.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.204*		mg/Kg wet	0.200		102	30-150			
Surrogate: Tetrachloro-m-xylene	*0.190*		mg/Kg wet	0.200		95.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.191*		mg/Kg wet	0.200		95.7	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B249578 - SW-846 3546										
Blank (B249578-BLK1)				Prepared: 01/08/20 Analyzed: 01/09/20						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: 2-Fluorobiphenyl	*2.86*		mg/Kg wet	3.33		85.9	50-150			
LCS (B249578-BS1)				Prepared: 01/08/20 Analyzed: 01/09/20						
CT ETPH	28.3	10	mg/Kg wet	33.3		84.9	60-120			
Surrogate: 2-Fluorobiphenyl	*2.86*		mg/Kg wet	3.33		85.7	50-150			
LCS Dup (B249578-BSD1)				Prepared: 01/08/20 Analyzed: 01/09/20						
CT ETPH	28.1	10	mg/Kg wet	33.3		84.4	60-120	0.575	30	
Surrogate: 2-Fluorobiphenyl	*2.82*		mg/Kg wet	3.33		84.6	50-150			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B249606 - SW-846 3051										
Blank (B249606-BLK1)				Prepared & Analyzed: 01/08/20						
Arsenic	ND	1.7	mg/Kg wet							
Lead	ND	0.50	mg/Kg wet							
Silver	ND	0.33	mg/Kg wet							
LCS (B249606-BS1)				Prepared & Analyzed: 01/08/20						
Arsenic	121	5.0	mg/Kg wet	125		96.7	83.2-117.5			
Lead	112	1.5	mg/Kg wet	111		101	82.4-116.8			
Silver	29.7	1.0	mg/Kg wet	27.2		109	81-119.2			
LCS Dup (B249606-BSD1)				Prepared & Analyzed: 01/08/20						
Arsenic	116	5.0	mg/Kg wet	125		93.1	83.2-117.5	3.77	30	
Lead	107	1.5	mg/Kg wet	111		96.6	82.4-116.8	4.75	30	
Silver	28.6	1.0	mg/Kg wet	27.2		105	81-119.2	3.75	30	
Duplicate (B249606-DUP1)	**Source: 20A0210-01**			Prepared & Analyzed: 01/08/20						
Arsenic	ND	1.8	mg/Kg dry		ND			NC	35	
Lead	5.22	0.53	mg/Kg dry		4.80			8.27	35	
Silver	ND	0.35	mg/Kg dry		ND			NC	35	
Matrix Spike (B249606-MS1)	**Source: 20A0210-01**			Prepared & Analyzed: 01/08/20						
Arsenic	16.2	1.8	mg/Kg dry	17.5	0.961	87.0	75-125			
Lead	21.6	0.53	mg/Kg dry	17.5	4.80	95.7	75-125			
Silver	17.0	0.35	mg/Kg dry	17.5	ND	96.8	75-125			
Reference (B249606-SRM1) MRL Check				Prepared & Analyzed: 01/08/20						
Lead	0.508	0.52	mg/Kg wet	0.518		98.0	80-120			
Batch B249613 - SW-846 7471										
Blank (B249613-BLK1)				Prepared: 01/08/20 Analyzed: 01/09/20						
Mercury	ND	0.025	mg/Kg wet							
LCS (B249613-BS1)				Prepared: 01/08/20 Analyzed: 01/09/20						
Mercury	8.82	0.38	mg/Kg wet	7.61		116	72.7-127.3			
LCS Dup (B249613-BSD1)				Prepared: 01/08/20 Analyzed: 01/09/20						
Mercury	8.07	0.39	mg/Kg wet	7.61		106	72.7-127.3	8.90	20	
Duplicate (B249613-DUP1)	**Source: 20A0210-01**			Prepared: 01/08/20 Analyzed: 01/09/20						
Mercury	ND	0.026	mg/Kg dry		ND			NC	35	
Matrix Spike (B249613-MS1)	**Source: 20A0210-01**			Prepared: 01/08/20 Analyzed: 01/09/20						
Mercury	0.380	0.027	mg/Kg dry	0.356	ND	107	75-125			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B249716 - SW-846 3051										
Blank (B249716-BLK1)				Prepared: 01/09/20 Analyzed: 01/10/20						
Barium	ND	1.7	mg/Kg wet							
Cadmium	ND	0.17	mg/Kg wet							
Chromium	ND	0.33	mg/Kg wet							
Selenium	ND	3.3	mg/Kg wet							
LCS (B249716-BS1)				Prepared: 01/09/20 Analyzed: 01/10/20						
Barium	369	4.9	mg/Kg wet	415		89.0	82.7-117.6			
Cadmium	47.2	0.49	mg/Kg wet	56.2		84.1	82.9-117.3			
Chromium	86.7	0.98	mg/Kg wet	101		85.9	82.4-116.8			
Selenium	69.7	9.8	mg/Kg wet	77.9		89.4	79.3-120.7			
LCS Dup (B249716-BSD1)				Prepared: 01/09/20 Analyzed: 01/10/20						
Barium	365	4.9	mg/Kg wet	415		88.0	82.7-117.6	1.13	20	
Cadmium	47.8	0.49	mg/Kg wet	56.2		85.1	82.9-117.3	1.18	20	
Chromium	89.0	0.98	mg/Kg wet	101		88.1	82.4-116.8	2.51	30	
Selenium	69.3	9.8	mg/Kg wet	77.9		89.0	79.3-120.7	0.488	30	
Duplicate (B249716-DUP1)	**Source: 20A0210-01RE1**			Prepared: 01/09/20 Analyzed: 01/10/20						
Barium	22.3	1.7	mg/Kg dry		17.2			25.8	35	
Cadmium	ND	0.17	mg/Kg dry		ND			NC	35	
Chromium	4.69	0.35	mg/Kg dry		4.53			3.53	35	
Selenium	ND	3.5	mg/Kg dry		ND			NC	35	
Matrix Spike (B249716-MS1)	**Source: 20A0210-01RE1**			Prepared: 01/09/20 Analyzed: 01/10/20						
Barium	33.3	1.8	mg/Kg dry	17.6	17.2	91.4	75-125			
Cadmium	15.7	0.18	mg/Kg dry	17.6	0.152	88.2	75-125			
Chromium	20.8	0.35	mg/Kg dry	17.6	4.53	92.4	75-125			
Selenium	16.3	3.5	mg/Kg dry	17.6	ND	92.6	75-125			

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B249565 - SW-846 9045C										
Duplicate (B249565-DUP1)	**Source: 20A0210-01**			Prepared & Analyzed: 01/07/20						
pH	7.8		pH Units		7.9			1.23	6.96	
Batch B249571 - % Solids										
Duplicate (B249571-DUP1)	**Source: 20A0210-01**			Prepared & Analyzed: 01/07/20						
% Solids	94.1		% Wt		94.0			0.130	20	
Batch B249603 - SW-846 9014										
Blank (B249603-BLK1)				Prepared & Analyzed: 01/08/20						
Reactive Cyanide	ND	0.40	mg/Kg							
LCS (B249603-BS1)				Prepared & Analyzed: 01/08/20						
Reactive Cyanide	9.4	0.40	mg/Kg	10.0		94.4	82.8-113			
Batch B249604 - SW-846 9030A										
Blank (B249604-BLK1)				Prepared & Analyzed: 01/08/20						
Reactive Sulfide	ND	2.0	mg/Kg							
LCS (B249604-BS1)				Prepared & Analyzed: 01/08/20						
Reactive Sulfide	14	2.0	mg/Kg	14.8		94.6	57.6-114			

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QUALITY CONTROL

TCLP - Metals Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B249641 - SW-846 3010A										
Blank (B249641-BLK1)				Prepared: 01/08/20 Analyzed: 01/09/20						
Arsenic	ND	0.050	mg/L							
Barium	ND	0.50	mg/L							
Cadmium	ND	0.010	mg/L							
Chromium	ND	0.050	mg/L							
Lead	ND	0.10	mg/L							
Selenium	ND	0.050	mg/L							
Silver	ND	0.050	mg/L							
LCS (B249641-BS1)				Prepared: 01/08/20 Analyzed: 01/09/20						
Arsenic	0.513	0.050	mg/L	0.500		103	80-120			
Barium	0.497	0.50	mg/L	0.500		99.4	80-120			
Cadmium	0.512	0.010	mg/L	0.500		102	80-120			
Chromium	0.493	0.050	mg/L	0.500		98.6	80-120			
Lead	0.492	0.10	mg/L	0.500		98.4	80-120			
Selenium	0.560	0.050	mg/L	0.500		112	80-120			
Silver	0.577	0.050	mg/L	0.500		115	80-120			
LCS Dup (B249641-BSD1)				Prepared: 01/08/20 Analyzed: 01/09/20						
Arsenic	0.532	0.050	mg/L	0.500		106	80-120	3.66	20	
Barium	0.507	0.50	mg/L	0.500		101	80-120	2.02	20	
Cadmium	0.522	0.010	mg/L	0.500		104	80-120	1.97	20	
Chromium	0.503	0.050	mg/L	0.500		101	80-120	2.00	20	
Lead	0.507	0.10	mg/L	0.500		101	80-120	2.96	20	
Selenium	0.583	0.050	mg/L	0.500		117	80-120	4.00	20	
Silver	0.586	0.050	mg/L	0.500		117	80-120	1.58	20	
Batch B249685 - SW-846 7470A Prep										
Blank (B249685-BLK1)				Prepared & Analyzed: 01/09/20						
Mercury	ND	0.00010	mg/L							
LCS (B249685-BS1)				Prepared & Analyzed: 01/09/20						
Mercury	0.00411	0.00010	mg/L	0.00400		103	80-120			
LCS Dup (B249685-BSD1)				Prepared & Analyzed: 01/09/20						
Mercury	0.00411	0.00010	mg/L	0.00400		103	80-120	0.129	20	
Matrix Spike (B249685-MS1)	**Source: 20A0210-01**			Prepared & Analyzed: 01/09/20						
Mercury	0.00408	0.00010	mg/L	0.00400	ND	102	75-125			

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IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B249575-BS1

Date(s) Analyzed: 01/08/2020 01/08/2020

Instrument ID (1): ECD10

Instrument ID (2): ECD10

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.17	
	2	0.000	-0.030	0.030	0.17	5.7
Aroclor-1260	1	0.000	-0.030	0.030	0.17	
	2	0.000	-0.030	0.030	0.17	0.0

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IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B249575-BSD1

Date(s) Analyzed: 01/08/2020 01/08/2020

Instrument ID (1): ECD10

Instrument ID (2): ECD10

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.18	
	2	0.000	-0.030	0.030	0.18	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.18	
	2	0.000	-0.030	0.030	0.18	0.0

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 1030 in Soil	
Ignitability	NY,NH,CT,NC,ME,VA
SW-846 6010D in Soil	
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,AIHA,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
SW-846 6010D in Water	
Arsenic	NY,CT,NC,ME,NH,VA
Barium	NY,CT,ME,NC,NH,VA
Cadmium	NY,CT,ME,NC,NH,VA
Chromium	NY,CT,ME,NC,NH,VA
Lead	NY,CT,ME,NC,NH,VA
Selenium	CT,ME,NC,NH,NY,VA
Silver	CT,ME,NC,NH,NY,VA
SW-846 7470A in Water	
Mercury	CT,ME,NC,NH,NY,VA
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA,PA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1221	CT,NH,NY,ME,NC,VA,PA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1232	CT,NH,NY,ME,NC,VA,PA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1242	CT,NH,NY,ME,NC,VA,PA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1248	CT,NH,NY,ME,NC,VA,PA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1254	CT,NH,NY,ME,NC,VA,PA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1260	CT,NH,NY,ME,NC,VA,PA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1262	NY,NC,VA,PA
Aroclor-1262 [2C]	NY,NC,VA,PA
Aroclor-1268	NY,NC,VA,PA
Aroclor-1268 [2C]	NY,NC,VA,PA
SW-846 8260C-D in Soil	
Acetone	CT,NH,NY,ME

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C-D in Soil	
Acrylonitrile	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
1,2-Dibromo-3-chloropropane (DBCP)	NY
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
trans-1,4-Dichloro-2-butene	NY
Dichlorodifluoromethane (Freon 12)	NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NH,NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	CT,NH,NY,ME
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl tert-Butyl Ether (MTBE)	NH,NY
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
Naphthalene	NH,NY,ME
n-Propylbenzene	NH,NY

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C-D in Soil	
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
1,2,4-Trichlorobenzene	NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,4-Trimethylbenzene	CT,NH,NY,ME
1,3,5-Trimethylbenzene	CT,NH,NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME
o-Xylene	CT,NH,NY,ME
Xylenes (total)	NH,NY
SW-846 8270D-E in Soil	
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH
Aniline	NY,NH
Anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
4-Chloro-3-methylphenol	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
4-Chlorophenylphenylether	CT,NY,NH
Chrysene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	NY,NH
1,3-Dichlorobenzene	NY,NH
1,4-Dichlorobenzene	NY,NH
3,3-Dichlorobenzidine	CT,NY,NH

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D-E in Soil	
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
4,6-Dinitro-2-methylphenol	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
Fluoranthene	CT,NY,NH
Fluorene	NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachlorocyclopentadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH
2-Nitroaniline	CT,NY,NH
3-Nitroaniline	CT,NY,NH
4-Nitroaniline	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
N-Nitrosodi-n-propylamine	CT,NY,NH
Pentachloronitrobenzene	NY
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenol	CT,NY,NH
Pyrene	CT,NY,NH
Pyridine	CT,NY,NH
1,2,4,5-Tetrachlorobenzene	NY
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH
SW-846 8270D-E in Water	
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH
Aniline	CT,NY
Anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D-E in Water	
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
4-Chloro-3-methylphenol	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
4-Chlorophenylphenylether	CT,NY,NH
Chrysene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	NY
1,3-Dichlorobenzene	NY
1,4-Dichlorobenzene	NY
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
4,6-Dinitro-2-methylphenol	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
Fluoranthene	CT,NY,NH
Fluorene	NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachlorocyclopentadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH
2-Nitroaniline	CT,NY,NH
3-Nitroaniline	CT,NY,NH
4-Nitroaniline	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D-E in Water	
4-Nitrophenol	CT,NY,NH
N-Nitrosodi-n-propylamine	CT,NY,NH
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenol	CT,NY,NH
Pyrene	CT,NY,NH
Pyridine	CT,NY,NH
1,2,4,5-Tetrachlorobenzene	NY
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH
SW-846 9095B in Soil	
Free Liquid	NY

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2022
MA	Massachusetts DEP	M-MA100	06/30/2020
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2021
NY	New York State Department of Health	10899 NELAP	04/1/2020
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2020
RI	Rhode Island Department of Health	LAO00112	12/30/2020
NC	North Carolina Div. of Water Quality	652	12/31/2020
NJ	New Jersey DEP	MA007 NELAP	06/30/2020
FL	Florida Department of Health	E871027 NELAP	06/30/2020
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2020
ME	State of Maine	2011028	06/9/2021
VA	Commonwealth of Virginia	460217	12/14/2020
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2020
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2020
NC-DW	North Carolina Department of Health	25703	07/31/2020
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2020

20A0210

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Email: info@contestlabs.com

http://www.contestlabs.com

CHAIN OF CUSTODY RECORD

Doc # 381 Rev 1_03242017

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 1

Company Name: TRC
Address: 21 Griffin Rd N Windsor, CT
Phone: 860-298-9692
Project Name: English Station Parcel A
Project Location: 510 Grand Ave, New Haven, CT
Project Number: 263951.000028.000001
Project Manager: Carl Stopper
Con-Test Quote Name/Number: B-20180911 English Station
Invoice Recipient: Carl Stopper
Sampled By: Matt Blumstein

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

Rush-Approval Required
1-Day ☐ ~~3-Day~~ MB
2-Day ☒ 4-Day ☐

Data Delivery
Format: PDF ☒ EXCEL ☒
Other:
CLP Like Data Pkg Required: ☐
Email To: CStopper@trccompanies.com
Fax To #:

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	RCRA 8 metals Total	RCRA 8 metals TCLP	SVOCs	PCBs	ETPH	VOCs	Ignitability	Reactivity	Corrosivity	Paint Filter	pH
1	TRC-AOC-12N-SO-04	1/6/20	1500	Yes		S	L	X	X	X	X	X	X	X	X	X	X	X

ANALYSIS REQUESTED

# of Containers	
[2] Preservation Code	
[3] Container Code	

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:
CC results to: Shawn.Crosbie@ci.net.com
2 day TAT or fastest TAT possible.

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

	Date/Time
Relinquished by: (signature)	1/7/20 1030
Received by: (signature)	1/7/20 1030
Relinquished by: (signature)	1/7/20 210
Received by: (signature) 2.4	1/7/20 14:10
Relinquished by: (signature)	
Received by: (signature)	

Detection Limit Requirements
MA:
CT: CT RSRs
Other:

Special Requirements
☐ MA MCP Required
MCP Certification Form Required
☒ CT RCP Required
RCP Certification Form Required
☐ MA State DW Required
PWSID #

Frozen 1/7/20 14:10 PI

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NELAC and AIHA-LAP, LLC Accredited

Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP, LLC*

PCB ONLY
☒ Soxhlet
☐ Non Soxhlet

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples______________

con-test®
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client TRC

Received By af Date 1/7/20 Time 14:10

How were the samples received? In Cooler T No Cooler ____ On Ice T No Ice ____

Direct from Sampling ____ Ambient ____ Melted Ice ____

Were samples within Temperature? 2-6°C T By Gun # 2 Actual Temp - 2.4

By Blank # ____ Actual Temp - ____

Was Custody Seal Intact? N/A Were Samples Tampered with? N/A

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T

Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? ____

Are there Rushes? T Who was notified? mikeM, Alex, katie

Are there Short Holds? T Who was notified? katie

Is there enough Volume? T

Is there Headspace where applicable? N/A MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? N/A Acid ____ Base ____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	4
Meoh-	1	250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Flashpoint		Col./Bacteria		2oz Amb/Clear	
DI-	2	Other Glass		Other Plastic		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen: 1/7/20 14:10 PI	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

C:\MSDCHEM\4\DATA\D010920\D0109006.D

CT ETPH DISCRIMINATION CHECK

Data File Name	D0109006.D
Data File Path	C:\MSDCHEM\4\DATA\D010920\
Operator	RMW
Date Acquired	1/9/1920 9:50
Acq. Method File	EPH11D.M
Sample Name	ETPH 1500
Instrument Name	GCFID4

Name	Ret Time	Target Response	Average Response	*%D+/-20
C-9	1.57	8092952	9233233	12
C-10	2.24	8319097	9233233	10
C-12	3.19	8623576	9233233	7
C-14	3.91	8952929	9233233	3
C-16	4.52	9163059	9233233	1
C-18	5.07	9372668	9233233	-2
C-20	5.67	9535660	9233233	-3
C-22	6.42	9656768	9233233	-5
C-24	7.26	9741546	9233233	-6
C-26	8.07	9741370	9233233	-6
C-28	8.81	9708964	9233233	-5
C-30	9.49	9674544	9233233	-5
C-32	10.13	9402979	9233233	-2
C-34	10.72	9382226	9233233	-2
C-36	11.31	9130150	9233233	1

Samples

*One compound allowed %D</=50%

20A0210-01

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: TRC Environmental Corporation - CT

Project Location: 510 Grand Ave, New Haven, CT

Project Number: 20A0210

Laboratory Sample ID(s):

20A0210-01

Sample Date(s):

01/06/2020

List RCP Methods Used:

CTDEP ETPH, SW-846 1311, SW-846 6010D, SW-846 7470A, SW-846 7471B, SW-846 8082A, SW-846 8260C-D, SW-846 8270D-E

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☐ Yes ☑ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☐ Yes ☑ No
5B	Were these reporting limits met?	☐ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

Tod E. Kopyscinski

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.

Authorized Signature: Tod Kopyscinski **Position:** **Laboratory Director**

Printed Name: **Tod E. Kopyscinski** **Date:** **01/10/20**

Name of Laboratory: **Con-Test Analytical Laboratory**

This certification form is to be used for RCP methods only.

Situation #4 Oily Sump Pit

Oil Sample

Con-Test Report #20A0594

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

January 15, 2020

Carl Stopper
TRC Environmental Corporation - CT
21 Griffin Road North
Windsor, CT 06095

Project Location: 510A Grand Ave, New Haven, CT
Client Job Number:
Project Number: 263951.000028.000001
Laboratory Work Order Number: 20A0594

Enclosed are results of analyses for samples received by the laboratory on January 14, 2020. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kerry K. McGee
Project Manager

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TRC Environmental Corporation - CT
21 Griffin Road North
Windsor, CT 06095
ATTN: Carl Stopper

REPORT DATE: 1/15/2020

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 263951.000028.000001

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 20A0594

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510A Grand Ave, New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
TRC-AOC-1-OIL-01	20A0594-01	Oil		EPA 600 4-81-045	
				SW-846 8260C-D	

con-test® ANALYTICAL LABORATORY

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

REVISED REPORT - 1/15/2020 - Project location edited as per COC/client's request.

SW-846 8260C-D

Qualifications:

DL-01

Elevated reporting limits for all volatile compounds due to foaming sample matrix.

Analyte & Samples(s) Qualified:

20A0594-01[TRC-AOC-1-OIL-01]

L-01

Laboratory fortified blank /laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.

Analyte & Samples(s) Qualified:

Bromomethane
B250052-BS1, S044602-CCV1

Chloromethane
B250052-BS1, S044602-CCV1

L-03

Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

1,2,3-Trichlorobenzene
20A0594-01[TRC-AOC-1-OIL-01], B250052-BLK1, B250052-BS1, S044602-CCV1

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:

1,2,3-Trichlorobenzene
20A0594-01[TRC-AOC-1-OIL-01], B250052-BLK1, B250052-BS1, S044602-CCV1

1,2,4-Trichlorobenzene
20A0594-01[TRC-AOC-1-OIL-01], B250052-BLK1, B250052-BS1, S044602-CCV1

V-20

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

Bromochloromethane
B250052-BS1, S044602-CCV1

Bromomethane
B250052-BS1, S044602-CCV1

Chloromethane
B250052-BS1, S044602-CCV1

Methylene Chloride
B250052-BS1, S044602-CCV1

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Kerry K. McGee
Project Manager

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510A Grand Ave, New Haven, CT   Sample Description: Work Order: 20A0594

Date Received: 1/14/2020

Field Sample #: TRC-AOC-1-OIL-01   Sampled: 1/14/2020 14:00

Sample ID: 20A0594-01

Sample Matrix: Oil

Sample Flags: DL-01

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Bromobenzene	ND	1.8	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
Bromochloromethane	ND	1.8	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
Bromodichloromethane	ND	1.8	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
Bromoform	ND	1.8	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
Bromomethane	ND	9.1	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
Carbon Tetrachloride	ND	1.8	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
Chlorobenzene	ND	1.8	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
Chlorodibromomethane	ND	0.91	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
Chloroethane	ND	18	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
Chloroform	ND	3.6	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
Chloromethane	ND	9.1	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
2-Chlorotoluene	ND	1.8	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
4-Chlorotoluene	ND	1.8	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	1.8	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
1,2-Dibromoethane (EDB)	ND	0.91	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
Dibromomethane	ND	1.8	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
1,2-Dichlorobenzene	ND	1.8	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
1,3-Dichlorobenzene	ND	1.8	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
1,4-Dichlorobenzene	ND	1.8	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
trans-1,4-Dichloro-2-butene	ND	3.6	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
Dichlorodifluoromethane (Freon 12)	ND	18	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
1,1-Dichloroethane	ND	1.8	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
1,2-Dichloroethane	ND	1.8	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
1,1-Dichloroethylene	ND	3.6	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
cis-1,2-Dichloroethylene	ND	1.8	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
trans-1,2-Dichloroethylene	ND	1.8	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
1,2-Dichloropropane	ND	1.8	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
1,3-Dichloropropane	ND	0.91	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
2,2-Dichloropropane	ND	1.8	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
1,1-Dichloropropene	ND	1.8	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
cis-1,3-Dichloropropene	ND	0.91	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
trans-1,3-Dichloropropene	ND	0.91	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
Hexachlorobutadiene	ND	1.8	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
Methylene Chloride	ND	18	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
1,1,1,2-Tetrachloroethane	ND	1.8	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
1,1,2,2-Tetrachloroethane	ND	0.91	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
Tetrachloroethylene	ND	1.8	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
1,2,3-Trichlorobenzene	ND	1.8	mg/Kg	2	V-05, L-03	SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
1,2,4-Trichlorobenzene	ND	1.8	mg/Kg	2	V-05	SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
1,3,5-Trichlorobenzene	ND	1.8	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
1,1,1-Trichloroethane	ND	1.8	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
1,1,2-Trichloroethane	ND	1.8	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
Trichloroethylene	ND	1.8	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
Trichlorofluoromethane (Freon 11)	ND	9.1	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510A Grand Ave, New Haven, CT Sample Description: Work Order: 20A0594

Date Received: 1/14/2020

Field Sample #: TRC-AOC-1-OIL-01 Sampled: 1/14/2020 14:00

Sample ID: 20A0594-01

Sample Matrix: Oil

Sample Flags: DL-01

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,2,3-Trichloropropane	ND	1.8	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	9.1	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
Vinyl Chloride	ND	9.1	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	Date/Time Analyzed
1,2-Dichloroethane-d4	103	70-130		1/15/20 9:14
Toluene-d8	97.7	70-130		1/15/20 9:14
4-Bromofluorobenzene	97.0	70-130		1/15/20 9:14

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Project Location: 510A Grand Ave, New Haven, CT   Sample Description: Work Order: 20A0594

Date Received: 1/14/2020

Field Sample #: TRC-AOC-1-OIL-01   Sampled: 1/14/2020 14:00

Sample ID: 20A0594-01

Sample Matrix: Oil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.79	mg/Kg	1		EPA 600 4-81-045	1/14/20	1/15/20 8:56	AYH
Aroclor-1221 [1]	ND	0.79	mg/Kg	1		EPA 600 4-81-045	1/14/20	1/15/20 8:56	AYH
Aroclor-1232 [1]	ND	0.79	mg/Kg	1		EPA 600 4-81-045	1/14/20	1/15/20 8:56	AYH
Aroclor-1242 [1]	ND	0.79	mg/Kg	1		EPA 600 4-81-045	1/14/20	1/15/20 8:56	AYH
Aroclor-1248 [1]	ND	0.79	mg/Kg	1		EPA 600 4-81-045	1/14/20	1/15/20 8:56	AYH
Aroclor-1254 [1]	ND	0.79	mg/Kg	1		EPA 600 4-81-045	1/14/20	1/15/20 8:56	AYH
Aroclor-1260 [1]	ND	0.79	mg/Kg	1		EPA 600 4-81-045	1/14/20	1/15/20 8:56	AYH
Aroclor-1262 [1]	ND	0.79	mg/Kg	1		EPA 600 4-81-045	1/14/20	1/15/20 8:56	AYH
Aroclor-1268 [1]	ND	0.79	mg/Kg	1		EPA 600 4-81-045	1/14/20	1/15/20 8:56	AYH
	0.0		mg/Kg	1		EPA 600 4-81-045	1/14/20	1/15/20 8:56	AYH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	Date/Time Analyzed
Decachlorobiphenyl [1]	83.2	30-150		1/15/20 8:56
Decachlorobiphenyl [2]	85.5	30-150		1/15/20 8:56
Tetrachloro-m-xylene [1]	86.3	30-150		1/15/20 8:56
Tetrachloro-m-xylene [2]	88.6	30-150		1/15/20 8:56

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Sample Extraction Data

Prep Method: SW-846 3580A-EPA 600 4-81-045

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0594-01 [TRC-AOC-1-OIL-01]	B249888	0.252	10.0	01/14/20

Prep Method: SW-846 5035/5030B-SW-846 8260C-D

Lab Number [Field ID]	Batch	Sample Amount(g)	Methanol Volume(mL)	Methanol Aliquot(mL)	Final Volume(mL)	Date
20A0594-01 [TRC-AOC-1-OIL-01]	B250052	0.550	5.00	0.5	50	01/15/20

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250052 - SW-846 5035/5030B										
Blank (B250052-BLK1)				Prepared & Analyzed: 01/15/20						
Bromobenzene	ND	0.10	mg/Kg							
Bromochloromethane	ND	0.10	mg/Kg							
Bromodichloromethane	ND	0.10	mg/Kg							
Bromoform	ND	0.10	mg/Kg							
Bromomethane	ND	0.50	mg/Kg							
Carbon Tetrachloride	ND	0.10	mg/Kg							
Chlorobenzene	ND	0.10	mg/Kg							
Chlorodibromomethane	ND	0.050	mg/Kg							
Chloroethane	ND	1.0	mg/Kg							
Chloroform	ND	0.20	mg/Kg							
Chloromethane	ND	0.50	mg/Kg							
2-Chlorotoluene	ND	0.10	mg/Kg							
4-Chlorotoluene	ND	0.10	mg/Kg							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.10	mg/Kg							
1,2-Dibromoethane (EDB)	ND	0.050	mg/Kg							
Dibromomethane	ND	0.10	mg/Kg							
1,2-Dichlorobenzene	ND	0.10	mg/Kg							
1,3-Dichlorobenzene	ND	0.10	mg/Kg							
1,4-Dichlorobenzene	ND	0.10	mg/Kg							
trans-1,4-Dichloro-2-butene	ND	0.20	mg/Kg							
Dichlorodifluoromethane (Freon 12)	ND	1.0	mg/Kg							
1,1-Dichloroethane	ND	0.10	mg/Kg							
1,2-Dichloroethane	ND	0.10	mg/Kg							
1,1-Dichloroethylene	ND	0.20	mg/Kg							
cis-1,2-Dichloroethylene	ND	0.10	mg/Kg							
trans-1,2-Dichloroethylene	ND	0.10	mg/Kg							
1,2-Dichloropropane	ND	0.10	mg/Kg							
1,3-Dichloropropane	ND	0.050	mg/Kg							
2,2-Dichloropropane	ND	0.10	mg/Kg							
1,1-Dichloropropene	ND	0.10	mg/Kg							
cis-1,3-Dichloropropene	ND	0.050	mg/Kg							
trans-1,3-Dichloropropene	ND	0.050	mg/Kg							
Hexachlorobutadiene	ND	0.10	mg/Kg							
Methylene Chloride	ND	1.0	mg/Kg							
1,1,1,2-Tetrachloroethane	ND	0.10	mg/Kg							
1,1,2,2-Tetrachloroethane	ND	0.050	mg/Kg							
Tetrachloroethylene	ND	0.10	mg/Kg							
1,2,3-Trichlorobenzene	ND	0.10	mg/Kg							L-03, V-05
1,2,4-Trichlorobenzene	ND	0.10	mg/Kg							V-05
1,3,5-Trichlorobenzene	ND	0.10	mg/Kg							
1,1,1-Trichloroethane	ND	0.10	mg/Kg							
1,1,2-Trichloroethane	ND	0.10	mg/Kg							
Trichloroethylene	ND	0.10	mg/Kg							
Trichlorofluoromethane (Freon 11)	ND	0.50	mg/Kg							
1,2,3-Trichloropropane	ND	0.10	mg/Kg							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	mg/Kg							
Vinyl Chloride	ND	0.50	mg/Kg							
Surrogate: 1,2-Dichloroethane-d4	*0.0260*		mg/Kg	0.0250		104	70-130			
Surrogate: Toluene-d8	*0.0247*		mg/Kg	0.0250		98.9	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0223*		mg/Kg	0.0250		89.3	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B250052 - SW-846 5035/5030B											
LCS (B250052-BS1)				Prepared & Analyzed: 01/15/20							
Bromobenzene	0.0113	0.0023	mg/Kg	0.0113		99.3	70-130				
Bromochloromethane	0.0134	0.0023	mg/Kg	0.0113		118	70-130			V-20	
Bromodichloromethane	0.0118	0.0023	mg/Kg	0.0113		104	70-130				
Bromoform	0.0107	0.0023	mg/Kg	0.0113		94.8	70-130				
Bromomethane	0.0151	0.011	mg/Kg	0.0113		**134** *	40-130			L-01, V-20	†
Carbon Tetrachloride	0.0125	0.0023	mg/Kg	0.0113		110	70-130				
Chlorobenzene	0.0120	0.0023	mg/Kg	0.0113		106	70-130				
Chlorodibromomethane	0.0115	0.0011	mg/Kg	0.0113		102	70-130				
Chloroethane	0.0121	0.023	mg/Kg	0.0113		107	70-130				
Chloroform	0.0125	0.0045	mg/Kg	0.0113		111	70-130				
Chloromethane	0.0157	0.011	mg/Kg	0.0113		**138** *	70-130			L-01, V-20	
2-Chlorotoluene	0.0117	0.0023	mg/Kg	0.0113		104	70-130				
4-Chlorotoluene	0.0116	0.0023	mg/Kg	0.0113		103	70-130				
1,2-Dibromo-3-chloropropane (DBCP)	0.0102	0.0023	mg/Kg	0.0113		89.8	70-130				
1,2-Dibromoethane (EDB)	0.0115	0.0011	mg/Kg	0.0113		102	70-130				
Dibromomethane	0.0116	0.0023	mg/Kg	0.0113		102	70-130				
1,2-Dichlorobenzene	0.0117	0.0023	mg/Kg	0.0113		103	70-130				
1,3-Dichlorobenzene	0.0123	0.0023	mg/Kg	0.0113		109	70-130				
1,4-Dichlorobenzene	0.0116	0.0023	mg/Kg	0.0113		103	70-130				
trans-1,4-Dichloro-2-butene	0.0108	0.0045	mg/Kg	0.0113		95.2	70-130				
Dichlorodifluoromethane (Freon 12)	0.0106	0.023	mg/Kg	0.0113		93.4	40-160				†
1,1-Dichloroethane	0.0124	0.0023	mg/Kg	0.0113		110	70-130				
1,2-Dichloroethane	0.0119	0.0023	mg/Kg	0.0113		105	70-130				
1,1-Dichloroethylene	0.0124	0.0045	mg/Kg	0.0113		109	70-130				
cis-1,2-Dichloroethylene	0.0127	0.0023	mg/Kg	0.0113		112	70-130				
trans-1,2-Dichloroethylene	0.0128	0.0023	mg/Kg	0.0113		112	70-130				
1,2-Dichloropropane	0.0125	0.0023	mg/Kg	0.0113		111	70-130				
1,3-Dichloropropane	0.0121	0.0011	mg/Kg	0.0113		107	70-130				
2,2-Dichloropropane	0.0122	0.0023	mg/Kg	0.0113		108	70-130				
1,1-Dichloropropene	0.0132	0.0023	mg/Kg	0.0113		116	70-130				
cis-1,3-Dichloropropene	0.0121	0.0011	mg/Kg	0.0113		106	70-130				
trans-1,3-Dichloropropene	0.0111	0.0011	mg/Kg	0.0113		97.6	70-130				
Hexachlorobutadiene	0.0109	0.0023	mg/Kg	0.0113		95.8	70-160				
Methylene Chloride	0.0137	0.023	mg/Kg	0.0113		121	40-160			V-20	†
1,1,1,2-Tetrachloroethane	0.0119	0.0023	mg/Kg	0.0113		105	70-130				
1,1,2,2-Tetrachloroethane	0.0124	0.0011	mg/Kg	0.0113		110	70-130				
Tetrachloroethylene	0.0125	0.0023	mg/Kg	0.0113		110	70-130				
1,2,3-Trichlorobenzene	0.00719	0.0023	mg/Kg	0.0113		**63.4** *	70-130			V-05, L-03	
1,2,4-Trichlorobenzene	0.00850	0.0023	mg/Kg	0.0113		75.0	70-130			V-05	
1,3,5-Trichlorobenzene	0.00960	0.0023	mg/Kg	0.0113		84.7	70-130				
1,1,1-Trichloroethane	0.0127	0.0023	mg/Kg	0.0113		112	70-130				
1,1,2-Trichloroethane	0.0123	0.0023	mg/Kg	0.0113		109	70-130				
Trichloroethylene	0.0123	0.0023	mg/Kg	0.0113		108	70-130				
Trichlorofluoromethane (Freon 11)	0.0129	0.011	mg/Kg	0.0113		114	70-130				
1,2,3-Trichloropropane	0.0117	0.0023	mg/Kg	0.0113		104	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0127	0.011	mg/Kg	0.0113		112	70-130				
Vinyl Chloride	0.0130	0.011	mg/Kg	0.0113		115	40-130				†
Surrogate: 1,2-Dichloroethane-d4	*0.0296*		mg/Kg	0.0283		104	70-130				
Surrogate: Toluene-d8	*0.0277*		mg/Kg	0.0283		97.7	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0270*		mg/Kg	0.0283		95.3	70-130				

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B249888 - SW-846 3580A										
Blank (B249888-BLK1)				Prepared & Analyzed: 01/14/20						
Aroclor-1016	ND	0.73	mg/Kg							
Aroclor-1016 [2C]	ND	0.73	mg/Kg							
Aroclor-1221	ND	0.73	mg/Kg							
Aroclor-1221 [2C]	ND	0.73	mg/Kg							
Aroclor-1232	ND	0.73	mg/Kg							
Aroclor-1232 [2C]	ND	0.73	mg/Kg							
Aroclor-1242	ND	0.73	mg/Kg							
Aroclor-1242 [2C]	ND	0.73	mg/Kg							
Aroclor-1248	ND	0.73	mg/Kg							
Aroclor-1248 [2C]	ND	0.73	mg/Kg							
Aroclor-1254	ND	0.73	mg/Kg							
Aroclor-1254 [2C]	ND	0.73	mg/Kg							
Aroclor-1260	ND	0.73	mg/Kg							
Aroclor-1260 [2C]	ND	0.73	mg/Kg							
Aroclor-1262	ND	0.73	mg/Kg							
Aroclor-1262 [2C]	ND	0.73	mg/Kg							
Aroclor-1268	ND	0.73	mg/Kg							
Aroclor-1268 [2C]	ND	0.73	mg/Kg							
Total PCB Aroclors	0.0		mg/Kg							
Surrogate: Decachlorobiphenyl	*6.50*		mg/Kg	7.28		89.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*6.73*		mg/Kg	7.28		92.5	30-150			
Surrogate: Tetrachloro-m-xylene	*5.96*		mg/Kg	7.28		81.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*6.38*		mg/Kg	7.28		87.7	30-150			
LCS (B249888-BS1)				Prepared & Analyzed: 01/14/20						
Aroclor-1016	ND	0.72	mg/Kg				85-115			
Aroclor-1016 [2C]	ND	0.72	mg/Kg				85-115			
Aroclor-1221	ND	0.72	mg/Kg				85-115			
Aroclor-1221 [2C]	ND	0.72	mg/Kg				85-115			
Aroclor-1232	ND	0.72	mg/Kg				85-115			
Aroclor-1232 [2C]	ND	0.72	mg/Kg				85-115			
Aroclor-1242	ND	0.72	mg/Kg				85-115			
Aroclor-1242 [2C]	ND	0.72	mg/Kg				85-115			
Aroclor-1248	ND	0.72	mg/Kg				85-115			
Aroclor-1248 [2C]	ND	0.72	mg/Kg				85-115			
Aroclor-1254	ND	0.72	mg/Kg				85-115			
Aroclor-1254 [2C]	ND	0.72	mg/Kg				85-115			
Aroclor-1260	4.2	0.72	mg/Kg	3.70		113	85-115			
Aroclor-1260 [2C]	4.2	0.72	mg/Kg	3.70		113	85-115			
Aroclor-1262	ND	0.72	mg/Kg				85-115			
Aroclor-1262 [2C]	ND	0.72	mg/Kg				85-115			
Aroclor-1268	ND	0.72	mg/Kg				85-115			
Aroclor-1268 [2C]	ND	0.72	mg/Kg				85-115			
Surrogate: Decachlorobiphenyl	*6.47*		mg/Kg	7.22		89.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*6.70*		mg/Kg	7.22		92.9	30-150			
Surrogate: Tetrachloro-m-xylene	*5.92*		mg/Kg	7.22		82.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*6.32*		mg/Kg	7.22		87.6	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B249888 - SW-846 3580A										
LCS Dup (B249888-BSD1)				Prepared & Analyzed: 01/14/20						
Aroclor-1016	ND	0.70	mg/Kg				85-115	NC	30	
Aroclor-1016 [2C]	ND	0.70	mg/Kg				85-115	NC	30	
Aroclor-1221	ND	0.70	mg/Kg				85-115	NC	30	
Aroclor-1221 [2C]	ND	0.70	mg/Kg				85-115	NC	30	
Aroclor-1232	ND	0.70	mg/Kg				85-115	NC	30	
Aroclor-1232 [2C]	ND	0.70	mg/Kg				85-115	NC	30	
Aroclor-1242	ND	0.70	mg/Kg				85-115	NC	30	
Aroclor-1242 [2C]	ND	0.70	mg/Kg				85-115	NC	30	
Aroclor-1248	ND	0.70	mg/Kg				85-115	NC	30	
Aroclor-1248 [2C]	ND	0.70	mg/Kg				85-115	NC	30	
Aroclor-1254	ND	0.70	mg/Kg				85-115	NC	30	
Aroclor-1254 [2C]	ND	0.70	mg/Kg				85-115	NC	30	
Aroclor-1260	3.9	0.70	mg/Kg	3.43		114	85-115	6.37	30	
Aroclor-1260 [2C]	3.9	0.70	mg/Kg	3.43		113	85-115	7.86	30	
Aroclor-1262	ND	0.70	mg/Kg				85-115	NC	30	
Aroclor-1262 [2C]	ND	0.70	mg/Kg				85-115	NC	30	
Aroclor-1268	ND	0.70	mg/Kg				85-115	NC	30	
Aroclor-1268 [2C]	ND	0.70	mg/Kg				85-115	NC	30	
Surrogate: Decachlorobiphenyl	*6.36*		mg/Kg	6.97		91.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*6.56*		mg/Kg	6.97		94.1	30-150			
Surrogate: Tetrachloro-m-xylene	*5.80*		mg/Kg	6.97		83.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*6.17*		mg/Kg	6.97		88.5	30-150			

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA 600 4-81-045

LCS

Lab Sample ID: B249888-BS1

Date(s) Analyzed: 01/14/2020 01/14/2020

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Aroclor-1260	1	0.000	0.000	0.000	4.2	
	2	0.000	0.000	0.000	4.2	0.0

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IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA 600 4-81-045

LCS Dup

Lab Sample ID: B249888-BSD1

Date(s) Analyzed: 01/14/2020 01/14/2020

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	0.000	0.000	3.9	
	2	0.000	0.000	0.000	3.9	0.0

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

DL-01	Elevated reporting limits for all volatile compounds due to foaming sample matrix.
L-01	Laboratory fortified blank /laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.
L-03	Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-20	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 600 4-81-045 in Oil	
Aroclor-1016	MA,NY,ME
Aroclor-1016 [2C]	MA,NY,ME
Aroclor-1221	MA,NY,ME
Aroclor-1221 [2C]	MA,NY,ME
Aroclor-1232	MA,NY,ME
Aroclor-1232 [2C]	MA,NY,ME
Aroclor-1242	MA,NY,ME
Aroclor-1242 [2C]	MA,NY,ME
Aroclor-1248	MA,NY,ME
Aroclor-1248 [2C]	MA,NY,ME
Aroclor-1254	MA,NY,ME
Aroclor-1254 [2C]	MA,NY,ME
Aroclor-1260	MA,NY,ME
Aroclor-1260 [2C]	MA,NY,ME
Aroclor-1262	MA,NY,ME
Aroclor-1262 [2C]	MA,NY,ME
Aroclor-1268	MA,NY,ME
Aroclor-1268 [2C]	MA,NY,ME
Total PCB Aroclors	NY

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2022
MA	Massachusetts DEP	M-MA100	06/30/2020
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2021
NY	New York State Department of Health	10899 NELAP	04/1/2020
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2020
RI	Rhode Island Department of Health	LAO00112	12/30/2020
NC	North Carolina Div. of Water Quality	652	12/31/2020
NJ	New Jersey DEP	MA007 NELAP	06/30/2020
FL	Florida Department of Health	E871027 NELAP	06/30/2020
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2020
ME	State of Maine	2011028	06/9/2021
VA	Commonwealth of Virginia	460217	12/14/2020
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2020
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2020
NC-DW	North Carolina Department of Health	25703	07/31/2020
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2020

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CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 1

KKM 20A0594

Company Name: TRC
Address: 21 Griffin Rd N Windsor, CT
Phone: 860-298-9692
Project Name: English Station Parcel A
Project Location: 510 Grand Ave, New Haven, CT
Project Number: 263951.000028.000001
Project Manager: Carl Stopper
Con-Test Quote Name/Number: B-20180911 English Station
Invoice Recipient: Carl Stopper
Sampled By: Matt Blunstein

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

Rush-Approval Required
1-Day ☒ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☒ EXCEL ☒
Other:
CLP Like Data Pkg Required: ☐
Email To: CStopper@trccompanies.com
Fax To #:

# of Containers	1	1	1		
[2] Preservation Code	I	M	M		
[3] Container Code	A	V	V		

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1] Matrix Code	Conc Code	PCBs	~~Halogenated VOCs~~	Halogenated solvents
1	TRC-AOC-1-OIL-01	1/14/20	1400			O	L	X	X	X

ANALYSIS REQUESTED

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define) O: l

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:
Attention: Kerry Mcgee
Questions, contact Matt Blunstein (TRC) 203-543-2517

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Signature	Date/Time
Relinquished by: (signature) [signature]	1/14/20
Received by: (signature) 22.0 1700 TM	1-14-2020
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA:
CT: CT RSRs
PCB RL < 1 ppm
Other:

Special Requirements
☐ MA MCP Required
MCP Certification Form Required
☒ CT RCP Required
RCP Certification Form Required
☐ MA State DW Required
PWSID #

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NELAC and AIHA-LAP, LLC Accredited

Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

PCB ONLY
☒ Soxhlet
☐ Non Soxhlet

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples__________

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Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client TRC

Received By JR Date 1-14-2020 Time 1700

How were the samples received? In Cooler X JR No Cooler T On Ice ___ No Ice T
Direct from Sampling ___ Ambient ___ Melted Ice ___

Were samples within Temperature? 2-6°C F By Gun # 2 Actual Temp - 22.0
By Blank # ___ Actual Temp - ___

Was Custody Seal Intact? NA Were Samples Tampered with? NA
Was COC Relinquished ? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T
Are Sample labels filled out and legible? T
Are there Lab to Filters? F Who was notified? ___
Are there Rushes? T Who was notified? Ashley
Are there Short Holds? F Who was notified? ___
Is there enough Volume? T
Is there Headspace where applicable? NA MS/MSD? F
Proper Media/Containers Used? T Is splitting samples required? F
Were trip blanks received? F On COC? F
Do all samples have the proper pH? NA Acid ___ Base ___

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-	1	250 mL Amb.		250 mL Plastic		4oz Amb/Clear	1
Bisulfate-		Flashpoint		Col./Bacteria		2oz Amb/Clear	
DI-		Other Glass		Other Plastic		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: TRC Environmental Corporation - CT

Project Location: 510 Gronk Ave, New Haven, CT

Project Number: 20A0594

Laboratory Sample ID(s):

20A0594-01

Sample Date(s):

01/14/2020

List RCP Methods Used:

SW-846 8260C-D

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☐ Yes ☑ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5B	Were these reporting limits met?	☐ Yes ☑ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☑ Yes ☐ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☐ Yes ☑ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

Lisa A. Worthington

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.

Authorized Signature: Lisa Worthington

Position: **Technical Representative**

Printed Name: **Lisa A. Worthington**

Date: **01/15/20**

Name of Laboratory: **Con-Test Analytical Laboratory**

This certification form is to be used for RCP methods only.

con-test ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com — Doc # 381 Rev 1_03242017

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 1

KKM 20A0594

Company Name:	TRC
Address:	21 Griffin Rd N Windsor, CT
Phone:	860-298-9692
Project Name:	English Station Parcel A
Project Location:	~~510~~ Grand Ave, New Haven, CT
Project Number:	263951.000028.000001
Project Manager:	Carl Stopper
Con-Test Quote Name/Number:	B-20180911 English Station
Invoice Recipient:	Carl Stopper
Sampled By:	Matt Blumstein

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

Rush-Approval Required
1-Day ☒ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☒ EXCEL ☒
Other:
CLP Like Data Pkg Required: ☐
Email To: CStopper@trccompanies.com
Fax To #:

# of Containers	1	1	1			
[2] Preservation Code	I	M	M			
[3] Container Code	A	V	V			

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCBs	~~Halogenated~~ VOCs	Halogenated solvents
1	TRC-AOC-1-OIL-01	1/14/20	1400			O	L	X	X	X

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define) Oil

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:
Attention: Kerry Mcgee
Questions, contact Matt Blumstein (TRC) 203-543-2517

Pl... ...centration ...own

Project location is 510A Grand Ave., New Haven, CT per Matt B.
-KKM 1/15/2020

Relinquished by: (signature) [signature]	Date/Time: 1/14/20
Received by: (signature) [signature] 22.0 1700 JM	Date/Time: 1-14-2020
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA:
CT: CT RSRs
PCB RL < 1 ppm
Other:

Special Requirements
☐ MA MCP Required
MCP Certification Form Required
☒ CT RCP Required
RCP Certification Form Required
☐ MA State DW Required
PWSID #

con-test ANALYTICAL LABORATORY
www.contestlabs.com

NELAC and AIHA-LAP, LLC Accredited

Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP, LLC*

PCB ONLY
☒ Soxhlet
☐ Non Soxhlet

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples__________

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Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client TRC

Received By JR Date 1-14-2020 Time 1700

How were the samples received? In Cooler ~~T~~ JR No Cooler T On Ice ___ No Ice T
Direct from Sampling ___ Ambient ___ Melted Ice ___

Were samples within Temperature? 2-6°C F By Gun # 2 Actual Temp - 22.0
By Blank # ___ Actual Temp - ___

Was Custody Seal Intact? NA Were Samples Tampered with? NA
Was COC Relinquished ? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T
Are Sample labels filled out and legible? T
Are there Lab to Filters? F Who was notified? ___
Are there Rushes? T Who was notified? Ashlie
Are there Short Holds? F Who was notified? ___
Is there enough Volume? T
Is there Headspace where applicable? NA MS/MSD? F
Proper Media/Containers Used? T Is splitting samples required? F
Were trip blanks received? F On COC? F
Do all samples have the proper pH? NA Acid ___ Base ___

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-	1	250 mL Amb.		250 mL Plastic		4oz Amb/Clear	1
Bisulfate-		Flashpoint		Col./Bacteria		2oz Amb/Clear	
DI-		Other Glass		Other Plastic		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

Situation #3 South Tunnel

Water, Solid, and PCB Surface Wipe Sample

Con-Test Report #20A0650

con-test®
ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

January 20, 2020

Carl Stopper
TRC Environmental Corporation - CT
21 Griffin Road North
Windsor, CT 06095

Project Location: 510A Grand Ave, New Haven, CT
Client Job Number:
Project Number: 263951.000028.000001
Laboratory Work Order Number: 20A0650

Enclosed are results of analyses for samples received by the laboratory on January 15, 2020. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kerry K. McGee

Kerry K. McGee
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

TRC Environmental Corporation - CT
21 Griffin Road North
Windsor, CT 06095
ATTN: Carl Stopper

REPORT DATE: 1/20/2020

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 263951.000028.000001

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 20A0650

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510A Grand Ave, New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
TRC-AOC-1-WP-01	20A0650-01	Wipe		SW-846 8082A	
TRC-AOC-1-SW-01	20A0650-02	Surface Water		CTDEP ETPH	
				SW-846 6020B	
				SW-846 7470A	
				SW-846 8082A	
				SW-846 8260C-D	
				SW-846 8270D-E	
TRC-AOC-1-SOLID-01	20A0650-03	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 8260C-D	
				SW-846 8270D-E	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

REVISED REPORT - 1/20/2020 - Total PCB result for sample 20A0650-03 revised.

For method 6020, only RCRA 8 metals were requested and reported.

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CTDEP ETPH

Qualifications:

L-07

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

CT ETPH
B250048-BSD1

S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

2-Fluorobiphenyl
20A0650-03[TRC-AOC-1-SOLID-01]

SW-846 8260C-D

Qualifications:

RL-12

Elevated reporting limit due to matrix interference.

Analyte & Samples(s) Qualified:

20A0650-02[TRC-AOC-1-SW-01]

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:

1,2,3-Trichlorobenzene
20A0650-02[TRC-AOC-1-SW-01], 20A0650-03[TRC-AOC-1-SOLID-01], B250151-BLK1, B250151-BS1, B250165-BLK1, B250165-BS1, S044670-CCV1, S044672-CCV1

Dichlorodifluoromethane (Freon 1
20A0650-02[TRC-AOC-1-SW-01], 20A0650-03[TRC-AOC-1-SOLID-01], B250151-BLK1, B250151-BS1, B250165-BLK1, B250165-BS1, S044670-CCV1, S044672-CCV1

SW-846 8270D-E

Qualifications:

E

Reported result is estimated. Value reported over verified calibration range.

Analyte & Samples(s) Qualified:

Benzo(a)anthracene
20A0650-03[TRC-AOC-1-SOLID-01]

Benzo(b)fluoranthene
20A0650-03[TRC-AOC-1-SOLID-01]

Chrysene
20A0650-03[TRC-AOC-1-SOLID-01]

Fluoranthene
20A0650-03[TRC-AOC-1-SOLID-01]

Phenanthrene
20A0650-03[TRC-AOC-1-SOLID-01]

Pyrene
20A0650-03[TRC-AOC-1-SOLID-01]

RL-11

Elevated reporting limit due to high concentration of target compounds.

Analyte & Samples(s) Qualified:

20A0650-03[TRC-AOC-1-SOLID-01]

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:

Hexachlorocyclopentadiene
20A0650-02[TRC-AOC-1-SW-01], B250091-BLK1, B250091-BS1, B250091-BSD1, S044678-CCV1

V-06

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.

Analyte & Samples(s) Qualified:

Bis(2-chloroisopropyl)ether
20A0650-02[TRC-AOC-1-SW-01], B250091-BLK1, B250091-BS1, B250091-BSD1, S044678-CCV1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Tod E. Kopyscinski
Laboratory Director

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510A Grand Ave, New Haven, CT   Sample Description: Work Order: 20A0650

Date Received: 1/15/2020

Field Sample #: TRC-AOC-1-WP-01   Sampled: 1/15/2020 10:00

Sample ID: 20A0650-01

Sample Matrix: Wipe

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	1/15/20	1/16/20 15:31	PJG
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	1/15/20	1/16/20 15:31	PJG
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	1/15/20	1/16/20 15:31	PJG
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	1/15/20	1/16/20 15:31	PJG
Aroclor-1248 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	1/15/20	1/16/20 15:31	PJG
Aroclor-1254 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	1/15/20	1/16/20 15:31	PJG
Aroclor-1260 [2]	ND	0.20	µg/Wipe	1		SW-846 8082A	1/15/20	1/16/20 15:31	PJG
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	1/15/20	1/16/20 15:31	PJG
Aroclor-1268 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	1/15/20	1/16/20 15:31	PJG
	0.0		µg/Wipe	1		SW-846 8082A	1/15/20	1/16/20 15:31	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	92.3	30-150		1/16/20 15:31
Decachlorobiphenyl [2]	90.0	30-150		1/16/20 15:31
Tetrachloro-m-xylene [1]	84.4	30-150		1/16/20 15:31
Tetrachloro-m-xylene [2]	83.9	30-150		1/16/20 15:31

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510A Grand Ave, New Haven, CT   Sample Description: Work Order: 20A0650

Date Received: 1/15/2020

Field Sample #: TRC-AOC-1-SW-01   Sampled: 1/15/2020 10:05

Sample ID: 20A0650-02

Sample Matrix: Surface Water

Sample Flags: RL-12

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	20	µg/L	2		SW-846 8260C-D	1/16/20	1/16/20 10:38	EEH
Acrylonitrile	ND	4.0	µg/L	2		SW-846 8260C-D	1/16/20	1/16/20 10:38	EEH
Benzene	ND	1.0	µg/L	2		SW-846 8260C-D	1/16/20	1/16/20 10:38	EEH
Bromobenzene	ND	1.0	µg/L	2		SW-846 8260C-D	1/16/20	1/16/20 10:38	EEH
Bromodichloromethane	ND	1.0	µg/L	2		SW-846 8260C-D	1/16/20	1/16/20 10:38	EEH
Bromoform	ND	1.0	µg/L	2		SW-846 8260C-D	1/16/20	1/16/20 10:38	EEH
Bromomethane	ND	2.0	µg/L	2		SW-846 8260C-D	1/16/20	1/16/20 10:38	EEH
2-Butanone (MEK)	ND	10	µg/L	2		SW-846 8260C-D	1/16/20	1/16/20 10:38	EEH
n-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260C-D	1/16/20	1/16/20 10:38	EEH
sec-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260C-D	1/16/20	1/16/20 10:38	EEH
tert-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260C-D	1/16/20	1/16/20 10:38	EEH
Carbon Disulfide	ND	10	µg/L	2		SW-846 8260C-D	1/16/20	1/16/20 10:38	EEH
Carbon Tetrachloride	ND	1.0	µg/L	2		SW-846 8260C-D	1/16/20	1/16/20 10:38	EEH
Chlorobenzene	ND	1.0	µg/L	2		SW-846 8260C-D	1/16/20	1/16/20 10:38	EEH
Chlorodibromomethane	ND	1.0	µg/L	2		SW-846 8260C-D	1/16/20	1/16/20 10:38	EEH
Chloroethane	ND	1.0	µg/L	2		SW-846 8260C-D	1/16/20	1/16/20 10:38	EEH
Chloroform	ND	1.0	µg/L	2		SW-846 8260C-D	1/16/20	1/16/20 10:38	EEH
Chloromethane	ND	1.2	µg/L	2		SW-846 8260C-D	1/16/20	1/16/20 10:38	EEH
2-Chlorotoluene	ND	1.0	µg/L	2		SW-846 8260C-D	1/16/20	1/16/20 10:38	EEH
4-Chlorotoluene	ND	1.0	µg/L	2		SW-846 8260C-D	1/16/20	1/16/20 10:38	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	2		SW-846 8260C-D	1/16/20	1/16/20 10:38	EEH
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	2		SW-846 8260C-D	1/16/20	1/16/20 10:38	EEH
Dibromomethane	ND	1.0	µg/L	2		SW-846 8260C-D	1/16/20	1/16/20 10:38	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	2		SW-846 8260C-D	1/16/20	1/16/20 10:38	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	2		SW-846 8260C-D	1/16/20	1/16/20 10:38	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	2		SW-846 8260C-D	1/16/20	1/16/20 10:38	EEH
trans-1,4-Dichloro-2-butene	ND	4.0	µg/L	2		SW-846 8260C-D	1/16/20	1/16/20 10:38	EEH
Dichlorodifluoromethane (Freon 12)	ND	1.0	µg/L	2	V-05	SW-846 8260C-D	1/16/20	1/16/20 10:38	EEH
1,1-Dichloroethane	ND	1.0	µg/L	2		SW-846 8260C-D	1/16/20	1/16/20 10:38	EEH
1,2-Dichloroethane	ND	1.0	µg/L	2		SW-846 8260C-D	1/16/20	1/16/20 10:38	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	2		SW-846 8260C-D	1/16/20	1/16/20 10:38	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	2		SW-846 8260C-D	1/16/20	1/16/20 10:38	EEH
trans-1,2-Dichloroethylene	ND	2.0	µg/L	2		SW-846 8260C-D	1/16/20	1/16/20 10:38	EEH
1,2-Dichloropropane	ND	1.0	µg/L	2		SW-846 8260C-D	1/16/20	1/16/20 10:38	EEH
1,3-Dichloropropane	ND	1.0	µg/L	2		SW-846 8260C-D	1/16/20	1/16/20 10:38	EEH
2,2-Dichloropropane	ND	1.0	µg/L	2		SW-846 8260C-D	1/16/20	1/16/20 10:38	EEH
1,1-Dichloropropene	ND	1.0	µg/L	2		SW-846 8260C-D	1/16/20	1/16/20 10:38	EEH
cis-1,3-Dichloropropene	ND	1.0	µg/L	2		SW-846 8260C-D	1/16/20	1/16/20 10:38	EEH
trans-1,3-Dichloropropene	ND	1.0	µg/L	2		SW-846 8260C-D	1/16/20	1/16/20 10:38	EEH
Ethylbenzene	ND	1.0	µg/L	2		SW-846 8260C-D	1/16/20	1/16/20 10:38	EEH
Hexachlorobutadiene	ND	1.2	µg/L	2		SW-846 8260C-D	1/16/20	1/16/20 10:38	EEH
2-Hexanone (MBK)	ND	10	µg/L	2		SW-846 8260C-D	1/16/20	1/16/20 10:38	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	2		SW-846 8260C-D	1/16/20	1/16/20 10:38	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	2		SW-846 8260C-D	1/16/20	1/16/20 10:38	EEH

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510A Grand Ave, New Haven, CT   Sample Description: Work Order: 20A0650

Date Received: 1/15/2020

Field Sample #: TRC-AOC-1-SW-01   Sampled: 1/15/2020 10:05

Sample ID: 20A0650-02

Sample Matrix: Surface Water

Sample Flags: RL-12

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	2		SW-846 8260C-D	1/16/20	1/16/20 10:38	EEH
Methylene Chloride	ND	10	µg/L	2		SW-846 8260C-D	1/16/20	1/16/20 10:38	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	2		SW-846 8260C-D	1/16/20	1/16/20 10:38	EEH
Naphthalene	ND	4.0	µg/L	2		SW-846 8260C-D	1/16/20	1/16/20 10:38	EEH
n-Propylbenzene	ND	2.0	µg/L	2		SW-846 8260C-D	1/16/20	1/16/20 10:38	EEH
Styrene	ND	2.0	µg/L	2		SW-846 8260C-D	1/16/20	1/16/20 10:38	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	2		SW-846 8260C-D	1/16/20	1/16/20 10:38	EEH
1,1,2,2-Tetrachloroethane	ND	1.0	µg/L	2		SW-846 8260C-D	1/16/20	1/16/20 10:38	EEH
Tetrachloroethylene	ND	2.0	µg/L	2		SW-846 8260C-D	1/16/20	1/16/20 10:38	EEH
Tetrahydrofuran	ND	20	µg/L	2		SW-846 8260C-D	1/16/20	1/16/20 10:38	EEH
Toluene	ND	2.0	µg/L	2		SW-846 8260C-D	1/16/20	1/16/20 10:38	EEH
1,2,3-Trichlorobenzene	ND	2.0	µg/L	2	V-05	SW-846 8260C-D	1/16/20	1/16/20 10:38	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	2		SW-846 8260C-D	1/16/20	1/16/20 10:38	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	2		SW-846 8260C-D	1/16/20	1/16/20 10:38	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	2		SW-846 8260C-D	1/16/20	1/16/20 10:38	EEH
Trichloroethylene	ND	2.0	µg/L	2		SW-846 8260C-D	1/16/20	1/16/20 10:38	EEH
Trichlorofluoromethane (Freon 11)	ND	4.0	µg/L	2		SW-846 8260C-D	1/16/20	1/16/20 10:38	EEH
1,2,3-Trichloropropane	ND	1.0	µg/L	2		SW-846 8260C-D	1/16/20	1/16/20 10:38	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	2		SW-846 8260C-D	1/16/20	1/16/20 10:38	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	2		SW-846 8260C-D	1/16/20	1/16/20 10:38	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	2		SW-846 8260C-D	1/16/20	1/16/20 10:38	EEH
Vinyl Chloride	ND	2.0	µg/L	2		SW-846 8260C-D	1/16/20	1/16/20 10:38	EEH
m+p Xylene	ND	4.0	µg/L	2		SW-846 8260C-D	1/16/20	1/16/20 10:38	EEH
o-Xylene	ND	2.0	µg/L	2		SW-846 8260C-D	1/16/20	1/16/20 10:38	EEH
Xylenes (total)	ND	6.0	µg/L	2		SW-846 8260C-D	1/16/20	1/16/20 10:38	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	91.4	70-130		1/16/20 10:38
Toluene-d8	96.2	70-130		1/16/20 10:38
4-Bromofluorobenzene	92.4	70-130		1/16/20 10:38

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510A Grand Ave, New Haven, CT   Sample Description: Work Order: 20A0650

Date Received: 1/15/2020

Field Sample #: TRC-AOC-1-SW-01   Sampled: 1/15/2020 10:05

Sample ID: 20A0650-02

Sample Matrix: Surface Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	5.0	µg/L	1		SW-846 8270D-E	1/15/20	1/16/20 11:36	BGL
Acenaphthylene	ND	5.0	µg/L	1		SW-846 8270D-E	1/15/20	1/16/20 11:36	BGL
Aniline	ND	5.0	µg/L	1		SW-846 8270D-E	1/15/20	1/16/20 11:36	BGL
Anthracene	ND	5.0	µg/L	1		SW-846 8270D-E	1/15/20	1/16/20 11:36	BGL
Benzo(a)anthracene	ND	5.0	µg/L	1		SW-846 8270D-E	1/15/20	1/16/20 11:36	BGL
Benzo(a)pyrene	ND	5.0	µg/L	1		SW-846 8270D-E	1/15/20	1/16/20 11:36	BGL
Benzo(b)fluoranthene	ND	5.0	µg/L	1		SW-846 8270D-E	1/15/20	1/16/20 11:36	BGL
Benzo(g,h,i)perylene	ND	5.0	µg/L	1		SW-846 8270D-E	1/15/20	1/16/20 11:36	BGL
Benzo(k)fluoranthene	ND	5.0	µg/L	1		SW-846 8270D-E	1/15/20	1/16/20 11:36	BGL
Bis(2-chloroethoxy)methane	ND	10	µg/L	1		SW-846 8270D-E	1/15/20	1/16/20 11:36	BGL
Bis(2-chloroethyl)ether	ND	10	µg/L	1		SW-846 8270D-E	1/15/20	1/16/20 11:36	BGL
Bis(2-chloroisopropyl)ether	ND	10	µg/L	1	V-06	SW-846 8270D-E	1/15/20	1/16/20 11:36	BGL
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L	1		SW-846 8270D-E	1/15/20	1/16/20 11:36	BGL
4-Bromophenylphenylether	ND	10	µg/L	1		SW-846 8270D-E	1/15/20	1/16/20 11:36	BGL
Butylbenzylphthalate	ND	10	µg/L	1		SW-846 8270D-E	1/15/20	1/16/20 11:36	BGL
Carbazole	ND	10	µg/L	1		SW-846 8270D-E	1/15/20	1/16/20 11:36	BGL
4-Chloroaniline	ND	10	µg/L	1		SW-846 8270D-E	1/15/20	1/16/20 11:36	BGL
4-Chloro-3-methylphenol	ND	10	µg/L	1		SW-846 8270D-E	1/15/20	1/16/20 11:36	BGL
2-Chloronaphthalene	ND	10	µg/L	1		SW-846 8270D-E	1/15/20	1/16/20 11:36	BGL
2-Chlorophenol	ND	10	µg/L	1		SW-846 8270D-E	1/15/20	1/16/20 11:36	BGL
4-Chlorophenylphenylether	ND	10	µg/L	1		SW-846 8270D-E	1/15/20	1/16/20 11:36	BGL
Chrysene	ND	5.0	µg/L	1		SW-846 8270D-E	1/15/20	1/16/20 11:36	BGL
Dibenz(a,h)anthracene	ND	5.0	µg/L	1		SW-846 8270D-E	1/15/20	1/16/20 11:36	BGL
Dibenzofuran	ND	5.0	µg/L	1		SW-846 8270D-E	1/15/20	1/16/20 11:36	BGL
Di-n-butylphthalate	ND	10	µg/L	1		SW-846 8270D-E	1/15/20	1/16/20 11:36	BGL
3,3-Dichlorobenzidine	ND	10	µg/L	1		SW-846 8270D-E	1/15/20	1/16/20 11:36	BGL
2,4-Dichlorophenol	ND	10	µg/L	1		SW-846 8270D-E	1/15/20	1/16/20 11:36	BGL
Diethylphthalate	ND	10	µg/L	1		SW-846 8270D-E	1/15/20	1/16/20 11:36	BGL
2,4-Dimethylphenol	ND	10	µg/L	1		SW-846 8270D-E	1/15/20	1/16/20 11:36	BGL
Dimethylphthalate	ND	10	µg/L	1		SW-846 8270D-E	1/15/20	1/16/20 11:36	BGL
4,6-Dinitro-2-methylphenol	ND	10	µg/L	1		SW-846 8270D-E	1/15/20	1/16/20 11:36	BGL
2,4-Dinitrophenol	ND	10	µg/L	1		SW-846 8270D-E	1/15/20	1/16/20 11:36	BGL
2,4-Dinitrotoluene	ND	10	µg/L	1		SW-846 8270D-E	1/15/20	1/16/20 11:36	BGL
2,6-Dinitrotoluene	ND	10	µg/L	1		SW-846 8270D-E	1/15/20	1/16/20 11:36	BGL
Di-n-octylphthalate	ND	10	µg/L	1		SW-846 8270D-E	1/15/20	1/16/20 11:36	BGL
Fluoranthene	7.1	5.0	µg/L	1		SW-846 8270D-E	1/15/20	1/16/20 11:36	BGL
Fluorene	ND	5.0	µg/L	1		SW-846 8270D-E	1/15/20	1/16/20 11:36	BGL
Hexachlorobenzene	ND	10	µg/L	1		SW-846 8270D-E	1/15/20	1/16/20 11:36	BGL
Hexachlorobutadiene	ND	10	µg/L	1		SW-846 8270D-E	1/15/20	1/16/20 11:36	BGL
Hexachlorocyclopentadiene	ND	10	µg/L	1	V-05	SW-846 8270D-E	1/15/20	1/16/20 11:36	BGL
Hexachloroethane	ND	10	µg/L	1		SW-846 8270D-E	1/15/20	1/16/20 11:36	BGL
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L	1		SW-846 8270D-E	1/15/20	1/16/20 11:36	BGL
Isophorone	ND	10	µg/L	1		SW-846 8270D-E	1/15/20	1/16/20 11:36	BGL
2-Methylnaphthalene	ND	5.0	µg/L	1		SW-846 8270D-E	1/15/20	1/16/20 11:36	BGL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510A Grand Ave, New Haven, CT   Sample Description: Work Order: 20A0650

Date Received: 1/15/2020

Field Sample #: TRC-AOC-1-SW-01   Sampled: 1/15/2020 10:05

Sample ID: 20A0650-02

Sample Matrix: Surface Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	10	µg/L	1		SW-846 8270D-E	1/15/20	1/16/20 11:36	BGL
3/4-Methylphenol	ND	10	µg/L	1		SW-846 8270D-E	1/15/20	1/16/20 11:36	BGL
Naphthalene	ND	5.0	µg/L	1		SW-846 8270D-E	1/15/20	1/16/20 11:36	BGL
2-Nitroaniline	ND	10	µg/L	1		SW-846 8270D-E	1/15/20	1/16/20 11:36	BGL
3-Nitroaniline	ND	10	µg/L	1		SW-846 8270D-E	1/15/20	1/16/20 11:36	BGL
4-Nitroaniline	ND	10	µg/L	1		SW-846 8270D-E	1/15/20	1/16/20 11:36	BGL
Nitrobenzene	ND	10	µg/L	1		SW-846 8270D-E	1/15/20	1/16/20 11:36	BGL
2-Nitrophenol	ND	10	µg/L	1		SW-846 8270D-E	1/15/20	1/16/20 11:36	BGL
4-Nitrophenol	ND	10	µg/L	1		SW-846 8270D-E	1/15/20	1/16/20 11:36	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	10	µg/L	1		SW-846 8270D-E	1/15/20	1/16/20 11:36	BGL
N-Nitrosodi-n-propylamine	ND	10	µg/L	1		SW-846 8270D-E	1/15/20	1/16/20 11:36	BGL
Pentachloronitrobenzene	ND	10	µg/L	1		SW-846 8270D-E	1/15/20	1/16/20 11:36	BGL
Pentachlorophenol	ND	10	µg/L	1		SW-846 8270D-E	1/15/20	1/16/20 11:36	BGL
Phenanthrene	ND	5.0	µg/L	1		SW-846 8270D-E	1/15/20	1/16/20 11:36	BGL
Phenol	ND	10	µg/L	1		SW-846 8270D-E	1/15/20	1/16/20 11:36	BGL
Pyrene	5.9	5.0	µg/L	1		SW-846 8270D-E	1/15/20	1/16/20 11:36	BGL
Pyridine	ND	5.0	µg/L	1		SW-846 8270D-E	1/15/20	1/16/20 11:36	BGL
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L	1		SW-846 8270D-E	1/15/20	1/16/20 11:36	BGL
1,2,4-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8270D-E	1/15/20	1/16/20 11:36	BGL
2,4,5-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D-E	1/15/20	1/16/20 11:36	BGL
2,4,6-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D-E	1/15/20	1/16/20 11:36	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	43.7	15-110		1/16/20 11:36
Phenol-d6	30.4	15-110		1/16/20 11:36
Nitrobenzene-d5	83.2	30-130		1/16/20 11:36
2-Fluorobiphenyl	103	30-130		1/16/20 11:36
2,4,6-Tribromophenol	98.5	15-110		1/16/20 11:36
p-Terphenyl-d14	92.1	30-130		1/16/20 11:36

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510A Grand Ave, New Haven, CT   Sample Description: Work Order: 20A0650

Date Received: 1/15/2020

Field Sample #: TRC-AOC-1-SW-01   Sampled: 1/15/2020 10:05

Sample ID: 20A0650-02

Sample Matrix: Surface Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/15/20	1/16/20 10:26	WAL
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/15/20	1/16/20 10:26	WAL
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/15/20	1/16/20 10:26	WAL
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/15/20	1/16/20 10:26	WAL
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/15/20	1/16/20 10:26	WAL
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/15/20	1/16/20 10:26	WAL
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/15/20	1/16/20 10:26	WAL
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/15/20	1/16/20 10:26	WAL
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/15/20	1/16/20 10:26	WAL
Total PCB Aroclors [1]	0.0		µg/L	1		SW-846 8082A	1/15/20	1/16/20 10:26	WAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	73.1	30-150		1/16/20 10:26
Decachlorobiphenyl [2]	72.0	30-150		1/16/20 10:26
Tetrachloro-m-xylene [1]	80.4	30-150		1/16/20 10:26
Tetrachloro-m-xylene [2]	79.6	30-150		1/16/20 10:26

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510A Grand Ave, New Haven, CT Sample Description: Work Order: 20A0650

Date Received: 1/15/2020

Field Sample #: TRC-AOC-1-SW-01 Sampled: 1/15/2020 10:05

Sample ID: 20A0650-02

Sample Matrix: Surface Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	1.7	0.15	mg/L	1		CTDEP ETPH	1/15/20	1/16/20 10:53	RMW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorobiphenyl	79.3	50-150		1/16/20 10:53

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510A Grand Ave, New Haven, CT   Sample Description: Work Order: 20A0650

Date Received: 1/15/2020

Field Sample #: TRC-AOC-1-SW-01   Sampled: 1/15/2020 10:05

Sample ID: 20A0650-02

Sample Matrix: Surface Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	55	0.80	µg/L	1		SW-846 6020B	1/16/20	1/16/20 13:24	MJH
Barium	96	10	µg/L	1		SW-846 6020B	1/16/20	1/16/20 13:24	MJH
Cadmium	0.90	0.20	µg/L	1		SW-846 6020B	1/16/20	1/16/20 13:24	MJH
Chromium	25	1.0	µg/L	1		SW-846 6020B	1/16/20	1/16/20 13:24	MJH
Lead	490	0.50	µg/L	1		SW-846 6020B	1/16/20	1/16/20 13:24	MJH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	1/16/20	1/16/20 12:31	CJV
Selenium	65	5.0	µg/L	1		SW-846 6020B	1/16/20	1/16/20 13:24	MJH
Silver	0.26	0.20	µg/L	1		SW-846 6020B	1/16/20	1/16/20 13:24	MJH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510A Grand Ave, New Haven, CT Sample Description: Work Order: 20A0650

Date Received: 1/15/2020

Field Sample #: TRC-AOC-1-SOLID-01 Sampled: 1/15/2020 10:10

Sample ID: 20A0650-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	9.0	mg/Kg dry	1		SW-846 8260C-D	1/16/20	1/16/20 11:05	EEH
Acrylonitrile	ND	0.90	mg/Kg dry	1		SW-846 8260C-D	1/16/20	1/16/20 11:05	EEH
Benzene	ND	0.18	mg/Kg dry	1		SW-846 8260C-D	1/16/20	1/16/20 11:05	EEH
Bromobenzene	ND	0.18	mg/Kg dry	1		SW-846 8260C-D	1/16/20	1/16/20 11:05	EEH
Bromodichloromethane	ND	0.18	mg/Kg dry	1		SW-846 8260C-D	1/16/20	1/16/20 11:05	EEH
Bromoform	ND	0.18	mg/Kg dry	1		SW-846 8260C-D	1/16/20	1/16/20 11:05	EEH
Bromomethane	ND	0.36	mg/Kg dry	1		SW-846 8260C-D	1/16/20	1/16/20 11:05	EEH
2-Butanone (MEK)	ND	3.6	mg/Kg dry	1		SW-846 8260C-D	1/16/20	1/16/20 11:05	EEH
n-Butylbenzene	ND	0.18	mg/Kg dry	1		SW-846 8260C-D	1/16/20	1/16/20 11:05	EEH
sec-Butylbenzene	ND	0.18	mg/Kg dry	1		SW-846 8260C-D	1/16/20	1/16/20 11:05	EEH
tert-Butylbenzene	ND	0.18	mg/Kg dry	1		SW-846 8260C-D	1/16/20	1/16/20 11:05	EEH
Carbon Disulfide	ND	0.90	mg/Kg dry	1		SW-846 8260C-D	1/16/20	1/16/20 11:05	EEH
Carbon Tetrachloride	ND	0.18	mg/Kg dry	1		SW-846 8260C-D	1/16/20	1/16/20 11:05	EEH
Chlorobenzene	ND	0.18	mg/Kg dry	1		SW-846 8260C-D	1/16/20	1/16/20 11:05	EEH
Chlorodibromomethane	ND	0.090	mg/Kg dry	1		SW-846 8260C-D	1/16/20	1/16/20 11:05	EEH
Chloroethane	ND	0.36	mg/Kg dry	1		SW-846 8260C-D	1/16/20	1/16/20 11:05	EEH
Chloroform	ND	0.36	mg/Kg dry	1		SW-846 8260C-D	1/16/20	1/16/20 11:05	EEH
Chloromethane	ND	0.36	mg/Kg dry	1		SW-846 8260C-D	1/16/20	1/16/20 11:05	EEH
2-Chlorotoluene	ND	0.18	mg/Kg dry	1		SW-846 8260C-D	1/16/20	1/16/20 11:05	EEH
4-Chlorotoluene	ND	0.18	mg/Kg dry	1		SW-846 8260C-D	1/16/20	1/16/20 11:05	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.90	mg/Kg dry	1		SW-846 8260C-D	1/16/20	1/16/20 11:05	EEH
1,2-Dibromoethane (EDB)	ND	0.090	mg/Kg dry	1		SW-846 8260C-D	1/16/20	1/16/20 11:05	EEH
Dibromomethane	ND	0.18	mg/Kg dry	1		SW-846 8260C-D	1/16/20	1/16/20 11:05	EEH
1,2-Dichlorobenzene	ND	0.18	mg/Kg dry	1		SW-846 8260C-D	1/16/20	1/16/20 11:05	EEH
1,3-Dichlorobenzene	ND	0.18	mg/Kg dry	1		SW-846 8260C-D	1/16/20	1/16/20 11:05	EEH
1,4-Dichlorobenzene	ND	0.18	mg/Kg dry	1		SW-846 8260C-D	1/16/20	1/16/20 11:05	EEH
trans-1,4-Dichloro-2-butene	ND	0.36	mg/Kg dry	1		SW-846 8260C-D	1/16/20	1/16/20 11:05	EEH
Dichlorodifluoromethane (Freon 12)	ND	0.36	mg/Kg dry	1	V-05	SW-846 8260C-D	1/16/20	1/16/20 11:05	EEH
1,1-Dichloroethane	ND	0.18	mg/Kg dry	1		SW-846 8260C-D	1/16/20	1/16/20 11:05	EEH
1,2-Dichloroethane	ND	0.18	mg/Kg dry	1		SW-846 8260C-D	1/16/20	1/16/20 11:05	EEH
1,1-Dichloroethylene	ND	0.18	mg/Kg dry	1		SW-846 8260C-D	1/16/20	1/16/20 11:05	EEH
cis-1,2-Dichloroethylene	ND	0.18	mg/Kg dry	1		SW-846 8260C-D	1/16/20	1/16/20 11:05	EEH
trans-1,2-Dichloroethylene	ND	0.18	mg/Kg dry	1		SW-846 8260C-D	1/16/20	1/16/20 11:05	EEH
1,2-Dichloropropane	ND	0.18	mg/Kg dry	1		SW-846 8260C-D	1/16/20	1/16/20 11:05	EEH
1,3-Dichloropropane	ND	0.090	mg/Kg dry	1		SW-846 8260C-D	1/16/20	1/16/20 11:05	EEH
2,2-Dichloropropane	ND	0.18	mg/Kg dry	1		SW-846 8260C-D	1/16/20	1/16/20 11:05	EEH
1,1-Dichloropropene	ND	0.36	mg/Kg dry	1		SW-846 8260C-D	1/16/20	1/16/20 11:05	EEH
cis-1,3-Dichloropropene	ND	0.090	mg/Kg dry	1		SW-846 8260C-D	1/16/20	1/16/20 11:05	EEH
trans-1,3-Dichloropropene	ND	0.090	mg/Kg dry	1		SW-846 8260C-D	1/16/20	1/16/20 11:05	EEH
Ethylbenzene	ND	0.18	mg/Kg dry	1		SW-846 8260C-D	1/16/20	1/16/20 11:05	EEH
Hexachlorobutadiene	ND	0.18	mg/Kg dry	1		SW-846 8260C-D	1/16/20	1/16/20 11:05	EEH
2-Hexanone (MBK)	ND	1.8	mg/Kg dry	1		SW-846 8260C-D	1/16/20	1/16/20 11:05	EEH
Isopropylbenzene (Cumene)	ND	0.18	mg/Kg dry	1		SW-846 8260C-D	1/16/20	1/16/20 11:05	EEH
p-Isopropyltoluene (p-Cymene)	ND	0.18	mg/Kg dry	1		SW-846 8260C-D	1/16/20	1/16/20 11:05	EEH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510A Grand Ave, New Haven, CT Sample Description: Work Order: 20A0650

Date Received: 1/15/2020

Field Sample #: TRC-AOC-1-SOLID-01 Sampled: 1/15/2020 10:10

Sample ID: 20A0650-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.18	mg/Kg dry	1		SW-846 8260C-D	1/16/20	1/16/20 11:05	EEH
Methylene Chloride	ND	0.90	mg/Kg dry	1		SW-846 8260C-D	1/16/20	1/16/20 11:05	EEH
4-Methyl-2-pentanone (MIBK)	ND	1.8	mg/Kg dry	1		SW-846 8260C-D	1/16/20	1/16/20 11:05	EEH
Naphthalene	ND	0.36	mg/Kg dry	1		SW-846 8260C-D	1/16/20	1/16/20 11:05	EEH
n-Propylbenzene	ND	0.18	mg/Kg dry	1		SW-846 8260C-D	1/16/20	1/16/20 11:05	EEH
Styrene	ND	0.18	mg/Kg dry	1		SW-846 8260C-D	1/16/20	1/16/20 11:05	EEH
1,1,1,2-Tetrachloroethane	ND	0.18	mg/Kg dry	1		SW-846 8260C-D	1/16/20	1/16/20 11:05	EEH
1,1,2,2-Tetrachloroethane	ND	0.090	mg/Kg dry	1		SW-846 8260C-D	1/16/20	1/16/20 11:05	EEH
Tetrachloroethylene	ND	0.18	mg/Kg dry	1		SW-846 8260C-D	1/16/20	1/16/20 11:05	EEH
Tetrahydrofuran	ND	1.8	mg/Kg dry	1		SW-846 8260C-D	1/16/20	1/16/20 11:05	EEH
Toluene	ND	0.18	mg/Kg dry	1		SW-846 8260C-D	1/16/20	1/16/20 11:05	EEH
1,2,3-Trichlorobenzene	ND	0.90	mg/Kg dry	1	V-05	SW-846 8260C-D	1/16/20	1/16/20 11:05	EEH
1,2,4-Trichlorobenzene	ND	0.18	mg/Kg dry	1		SW-846 8260C-D	1/16/20	1/16/20 11:05	EEH
1,1,1-Trichloroethane	ND	0.18	mg/Kg dry	1		SW-846 8260C-D	1/16/20	1/16/20 11:05	EEH
1,1,2-Trichloroethane	ND	0.18	mg/Kg dry	1		SW-846 8260C-D	1/16/20	1/16/20 11:05	EEH
Trichloroethylene	ND	0.18	mg/Kg dry	1		SW-846 8260C-D	1/16/20	1/16/20 11:05	EEH
Trichlorofluoromethane (Freon 11)	ND	0.36	mg/Kg dry	1		SW-846 8260C-D	1/16/20	1/16/20 11:05	EEH
1,2,3-Trichloropropane	ND	0.36	mg/Kg dry	1		SW-846 8260C-D	1/16/20	1/16/20 11:05	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.18	mg/Kg dry	1		SW-846 8260C-D	1/16/20	1/16/20 11:05	EEH
1,2,4-Trimethylbenzene	ND	0.18	mg/Kg dry	1		SW-846 8260C-D	1/16/20	1/16/20 11:05	EEH
1,3,5-Trimethylbenzene	ND	0.18	mg/Kg dry	1		SW-846 8260C-D	1/16/20	1/16/20 11:05	EEH
Vinyl Chloride	ND	0.36	mg/Kg dry	1		SW-846 8260C-D	1/16/20	1/16/20 11:05	EEH
m+p Xylene	ND	0.36	mg/Kg dry	1		SW-846 8260C-D	1/16/20	1/16/20 11:05	EEH
o-Xylene	ND	0.18	mg/Kg dry	1		SW-846 8260C-D	1/16/20	1/16/20 11:05	EEH
Xylenes (total)	ND	0.54	mg/Kg dry	1		SW-846 8260C-D	1/16/20	1/16/20 11:05	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	95.0	70-130		1/16/20 11:05
Toluene-d8	98.0	70-130		1/16/20 11:05
4-Bromofluorobenzene	101	70-130		1/16/20 11:05

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510A Grand Ave, New Haven, CT   Sample Description: Work Order: 20A0650

Date Received: 1/15/2020

Field Sample #: TRC-AOC-1-SOLID-01   Sampled: 1/15/2020 10:10

Sample ID: 20A0650-03

Sample Matrix: Soil

Sample Flags: RL-11

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	9.2	2.1	mg/Kg dry	5		SW-846 8270D-E	1/16/20	1/16/20 10:50	IMR
Acenaphthylene	ND	2.1	mg/Kg dry	5		SW-846 8270D-E	1/16/20	1/16/20 10:50	IMR
Aniline	ND	4.3	mg/Kg dry	5		SW-846 8270D-E	1/16/20	1/16/20 10:50	IMR
Anthracene	20	2.1	mg/Kg dry	5		SW-846 8270D-E	1/16/20	1/16/20 10:50	IMR
Benzo(a)anthracene	51	11	mg/Kg dry	25		SW-846 8270D-E	1/16/20	1/16/20 11:15	IMR
Benzo(a)anthracene	53	2.1	mg/Kg dry	5	E	SW-846 8270D-E	1/16/20	1/16/20 10:50	IMR
Benzo(a)pyrene	45	2.1	mg/Kg dry	5		SW-846 8270D-E	1/16/20	1/16/20 10:50	IMR
Benzo(b)fluoranthene	55	11	mg/Kg dry	25		SW-846 8270D-E	1/16/20	1/16/20 11:15	IMR
Benzo(b)fluoranthene	58	2.1	mg/Kg dry	5	E	SW-846 8270D-E	1/16/20	1/16/20 10:50	IMR
Benzo(g,h,i)perylene	21	2.1	mg/Kg dry	5		SW-846 8270D-E	1/16/20	1/16/20 10:50	IMR
Benzo(k)fluoranthene	22	2.1	mg/Kg dry	5		SW-846 8270D-E	1/16/20	1/16/20 10:50	IMR
Bis(2-chloroethoxy)methane	ND	4.3	mg/Kg dry	5		SW-846 8270D-E	1/16/20	1/16/20 10:50	IMR
Bis(2-chloroethyl)ether	ND	4.3	mg/Kg dry	5		SW-846 8270D-E	1/16/20	1/16/20 10:50	IMR
Bis(2-chloroisopropyl)ether	ND	4.3	mg/Kg dry	5		SW-846 8270D-E	1/16/20	1/16/20 10:50	IMR
Bis(2-Ethylhexyl)phthalate	ND	4.3	mg/Kg dry	5		SW-846 8270D-E	1/16/20	1/16/20 10:50	IMR
4-Bromophenylphenylether	ND	4.3	mg/Kg dry	5		SW-846 8270D-E	1/16/20	1/16/20 10:50	IMR
Butylbenzylphthalate	ND	4.3	mg/Kg dry	5		SW-846 8270D-E	1/16/20	1/16/20 10:50	IMR
Carbazole	12	2.1	mg/Kg dry	5		SW-846 8270D-E	1/16/20	1/16/20 10:50	IMR
4-Chloroaniline	ND	8.3	mg/Kg dry	5		SW-846 8270D-E	1/16/20	1/16/20 10:50	IMR
4-Chloro-3-methylphenol	ND	8.3	mg/Kg dry	5		SW-846 8270D-E	1/16/20	1/16/20 10:50	IMR
2-Chloronaphthalene	ND	4.3	mg/Kg dry	5		SW-846 8270D-E	1/16/20	1/16/20 10:50	IMR
2-Chlorophenol	ND	4.3	mg/Kg dry	5		SW-846 8270D-E	1/16/20	1/16/20 10:50	IMR
4-Chlorophenylphenylether	ND	4.3	mg/Kg dry	5		SW-846 8270D-E	1/16/20	1/16/20 10:50	IMR
Chrysene	54	11	mg/Kg dry	25		SW-846 8270D-E	1/16/20	1/16/20 11:15	IMR
Chrysene	54	2.1	mg/Kg dry	5	E	SW-846 8270D-E	1/16/20	1/16/20 10:50	IMR
Dibenz(a,h)anthracene	5.6	2.1	mg/Kg dry	5		SW-846 8270D-E	1/16/20	1/16/20 10:50	IMR
Dibenzofuran	6.5	4.3	mg/Kg dry	5		SW-846 8270D-E	1/16/20	1/16/20 10:50	IMR
Di-n-butylphthalate	ND	4.3	mg/Kg dry	5		SW-846 8270D-E	1/16/20	1/16/20 10:50	IMR
3,3-Dichlorobenzidine	ND	2.1	mg/Kg dry	5		SW-846 8270D-E	1/16/20	1/16/20 10:50	IMR
2,4-Dichlorophenol	ND	4.3	mg/Kg dry	5		SW-846 8270D-E	1/16/20	1/16/20 10:50	IMR
Diethylphthalate	ND	4.3	mg/Kg dry	5		SW-846 8270D-E	1/16/20	1/16/20 10:50	IMR
2,4-Dimethylphenol	ND	4.3	mg/Kg dry	5		SW-846 8270D-E	1/16/20	1/16/20 10:50	IMR
Dimethylphthalate	ND	4.3	mg/Kg dry	5		SW-846 8270D-E	1/16/20	1/16/20 10:50	IMR
4,6-Dinitro-2-methylphenol	ND	4.3	mg/Kg dry	5		SW-846 8270D-E	1/16/20	1/16/20 10:50	IMR
2,4-Dinitrophenol	ND	8.3	mg/Kg dry	5		SW-846 8270D-E	1/16/20	1/16/20 10:50	IMR
2,4-Dinitrotoluene	ND	4.3	mg/Kg dry	5		SW-846 8270D-E	1/16/20	1/16/20 10:50	IMR
2,6-Dinitrotoluene	ND	4.3	mg/Kg dry	5		SW-846 8270D-E	1/16/20	1/16/20 10:50	IMR
Di-n-octylphthalate	ND	4.3	mg/Kg dry	5		SW-846 8270D-E	1/16/20	1/16/20 10:50	IMR
Fluoranthene	130	11	mg/Kg dry	25		SW-846 8270D-E	1/16/20	1/16/20 11:15	IMR
Fluoranthene	120	2.1	mg/Kg dry	5	E	SW-846 8270D-E	1/16/20	1/16/20 10:50	IMR
Fluorene	9.7	2.1	mg/Kg dry	5		SW-846 8270D-E	1/16/20	1/16/20 10:50	IMR
Hexachlorobenzene	ND	4.3	mg/Kg dry	5		SW-846 8270D-E	1/16/20	1/16/20 10:50	IMR
Hexachlorobutadiene	ND	4.3	mg/Kg dry	5		SW-846 8270D-E	1/16/20	1/16/20 10:50	IMR
Hexachlorocyclopentadiene	ND	4.3	mg/Kg dry	5		SW-846 8270D-E	1/16/20	1/16/20 10:50	IMR

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510A Grand Ave, New Haven, CT   Sample Description: Work Order: 20A0650

Date Received: 1/15/2020

Field Sample #: TRC-AOC-1-SOLID-01   Sampled: 1/15/2020 10:10

Sample ID: 20A0650-03

Sample Matrix: Soil

Sample Flags: RL-11

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	4.3	mg/Kg dry	5		SW-846 8270D-E	1/16/20	1/16/20 10:50	IMR
Indeno(1,2,3-cd)pyrene	26	2.1	mg/Kg dry	5		SW-846 8270D-E	1/16/20	1/16/20 10:50	IMR
Isophorone	ND	4.3	mg/Kg dry	5		SW-846 8270D-E	1/16/20	1/16/20 10:50	IMR
2-Methylnaphthalene	4.8	2.1	mg/Kg dry	5		SW-846 8270D-E	1/16/20	1/16/20 10:50	IMR
2-Methylphenol	ND	4.3	mg/Kg dry	5		SW-846 8270D-E	1/16/20	1/16/20 10:50	IMR
3/4-Methylphenol	ND	4.3	mg/Kg dry	5		SW-846 8270D-E	1/16/20	1/16/20 10:50	IMR
Naphthalene	7.7	2.1	mg/Kg dry	5		SW-846 8270D-E	1/16/20	1/16/20 10:50	IMR
2-Nitroaniline	ND	4.3	mg/Kg dry	5		SW-846 8270D-E	1/16/20	1/16/20 10:50	IMR
3-Nitroaniline	ND	4.3	mg/Kg dry	5		SW-846 8270D-E	1/16/20	1/16/20 10:50	IMR
4-Nitroaniline	ND	4.3	mg/Kg dry	5		SW-846 8270D-E	1/16/20	1/16/20 10:50	IMR
Nitrobenzene	ND	4.3	mg/Kg dry	5		SW-846 8270D-E	1/16/20	1/16/20 10:50	IMR
2-Nitrophenol	ND	4.3	mg/Kg dry	5		SW-846 8270D-E	1/16/20	1/16/20 10:50	IMR
4-Nitrophenol	ND	8.3	mg/Kg dry	5		SW-846 8270D-E	1/16/20	1/16/20 10:50	IMR
N-Nitrosodiphenylamine/Diphenylamine	ND	4.3	mg/Kg dry	5		SW-846 8270D-E	1/16/20	1/16/20 10:50	IMR
N-Nitrosodi-n-propylamine	ND	4.3	mg/Kg dry	5		SW-846 8270D-E	1/16/20	1/16/20 10:50	IMR
Pentachloronitrobenzene	ND	4.3	mg/Kg dry	5		SW-846 8270D-E	1/16/20	1/16/20 10:50	IMR
Pentachlorophenol	ND	4.3	mg/Kg dry	5		SW-846 8270D-E	1/16/20	1/16/20 10:50	IMR
Phenanthrene	96	11	mg/Kg dry	25		SW-846 8270D-E	1/16/20	1/16/20 11:15	IMR
Phenanthrene	82	2.1	mg/Kg dry	5	E	SW-846 8270D-E	1/16/20	1/16/20 10:50	IMR
Phenol	ND	4.3	mg/Kg dry	5		SW-846 8270D-E	1/16/20	1/16/20 10:50	IMR
Pyrene	94	11	mg/Kg dry	25		SW-846 8270D-E	1/16/20	1/16/20 11:15	IMR
Pyrene	83	2.1	mg/Kg dry	5	E	SW-846 8270D-E	1/16/20	1/16/20 10:50	IMR
Pyridine	ND	4.3	mg/Kg dry	5		SW-846 8270D-E	1/16/20	1/16/20 10:50	IMR
1,2,4,5-Tetrachlorobenzene	ND	4.3	mg/Kg dry	5		SW-846 8270D-E	1/16/20	1/16/20 10:50	IMR
1,2,4-Trichlorobenzene	ND	4.3	mg/Kg dry	5		SW-846 8270D-E	1/16/20	1/16/20 10:50	IMR
2,4,5-Trichlorophenol	ND	4.3	mg/Kg dry	5		SW-846 8270D-E	1/16/20	1/16/20 10:50	IMR
2,4,6-Trichlorophenol	ND	4.3	mg/Kg dry	5		SW-846 8270D-E	1/16/20	1/16/20 10:50	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	56.5	30-130		1/16/20 11:15
2-Fluorophenol	58.9	30-130		1/16/20 10:50
Phenol-d6	62.8	30-130		1/16/20 11:15
Phenol-d6	63.9	30-130		1/16/20 10:50
Nitrobenzene-d5	55.8	30-130		1/16/20 11:15
Nitrobenzene-d5	56.4	30-130		1/16/20 10:50
2-Fluorobiphenyl	70.5	30-130		1/16/20 11:15
2-Fluorobiphenyl	72.5	30-130		1/16/20 10:50
2,4,6-Tribromophenol	50.1	30-130		1/16/20 11:15
2,4,6-Tribromophenol	55.0	30-130		1/16/20 10:50
p-Terphenyl-d14	55.8	30-130		1/16/20 11:15
p-Terphenyl-d14	55.6	30-130		1/16/20 10:50

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510A Grand Ave, New Haven, CT | Sample Description: | Work Order: 20A0650

Date Received: 1/15/2020

Field Sample #: TRC-AOC-1-SOLID-01 | Sampled: 1/15/2020 10:10

Sample ID: 20A0650-03

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.19	mg/Kg dry	4		SW-846 8082A	1/15/20	1/16/20 22:19	JMB
Aroclor-1221 [1]	ND	0.19	mg/Kg dry	4		SW-846 8082A	1/15/20	1/16/20 22:19	JMB
Aroclor-1232 [1]	ND	0.19	mg/Kg dry	4		SW-846 8082A	1/15/20	1/16/20 22:19	JMB
Aroclor-1242 [1]	ND	0.19	mg/Kg dry	4		SW-846 8082A	1/15/20	1/16/20 22:19	JMB
Aroclor-1248 [1]	0.44	0.19	mg/Kg dry	4		SW-846 8082A	1/15/20	1/16/20 22:19	JMB
Aroclor-1254 [2]	0.51	0.19	mg/Kg dry	4		SW-846 8082A	1/15/20	1/16/20 22:19	JMB
Aroclor-1260 [1]	0.45	0.19	mg/Kg dry	4		SW-846 8082A	1/15/20	1/16/20 22:19	JMB
Aroclor-1262 [1]	ND	0.19	mg/Kg dry	4		SW-846 8082A	1/15/20	1/16/20 22:19	JMB
Aroclor-1268 [1]	ND	0.19	mg/Kg dry	4		SW-846 8082A	1/15/20	1/16/20 22:19	JMB
Total PCB Aroclors [1]	1.4		mg/Kg dry	4		SW-846 8082A	1/15/20	1/16/20 22:19	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	89.6	30-150		1/16/20 22:19
Decachlorobiphenyl [2]	141	30-150		1/16/20 22:19
Tetrachloro-m-xylene [1]	89.8	30-150		1/16/20 22:19
Tetrachloro-m-xylene [2]	91.7	30-150		1/16/20 22:19

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510A Grand Ave, New Haven, CT Sample Description: Work Order: 20A0650

Date Received: 1/15/2020

Field Sample #: TRC-AOC-1-SOLID-01 Sampled: 1/15/2020 10:10

Sample ID: 20A0650-03

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	5100	2500	mg/Kg dry	100		CTDEP ETPH	1/16/20	1/16/20 10:52	RMW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorobiphenyl	*	50-150	S-01	1/16/20 10:52

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Project Location: 510A Grand Ave, New Haven, CT   Sample Description: Work Order: 20A0650

Date Received: 1/15/2020

Field Sample #: TRC-AOC-1-SOLID-01   Sampled: 1/15/2020 10:10

Sample ID: 20A0650-03

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	9.4	1.6	mg/Kg	1		SW-846 6010D	1/15/20	1/16/20 13:48	TBC
Barium	26	1.6	mg/Kg	1		SW-846 6010D	1/15/20	1/16/20 13:48	TBC
Cadmium	0.65	0.16	mg/Kg	1		SW-846 6010D	1/15/20	1/16/20 13:48	TBC
Chromium	7.0	0.32	mg/Kg	1		SW-846 6010D	1/15/20	1/16/20 13:48	TBC
Lead	120	0.49	mg/Kg	1		SW-846 6010D	1/15/20	1/16/20 13:48	TBC
Mercury	3.6	0.31	mg/Kg dry	5		SW-846 7471B	1/16/20	1/16/20 13:04	CJV
Selenium	ND	3.2	mg/Kg	1		SW-846 6010D	1/15/20	1/16/20 13:48	TBC
Silver	ND	0.32	mg/Kg	1		SW-846 6010D	1/15/20	1/16/20 19:55	MJH

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Project Location: 510A Grand Ave, New Haven, CT Sample Description: Work Order: 20A0650

Date Received: 1/15/2020

Field Sample #: TRC-AOC-1-SOLID-01 Sampled: 1/15/2020 10:10

Sample ID: 20A0650-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	39.6		% Wt	1		SM 2540G	1/16/20	1/16/20 8:18	ATF

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Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0650-03 [TRC-AOC-1-SOLID-01]	B250145	30.0	1.00	01/16/20

Prep Method: SW-846 3510C-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
20A0650-02 [TRC-AOC-1-SW-01]	B250048	1000	1.00	01/15/20

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
20A0650-03 [TRC-AOC-1-SOLID-01]	B250146	01/16/20

Prep Method: SW-846 3050B-SW-846 6010D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0650-03 [TRC-AOC-1-SOLID-01]	B250126	1.54	50.0	01/15/20

Prep Method: SW-846 3005A-SW-846 6020B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
20A0650-02 [TRC-AOC-1-SW-01]	B250129	50.0	50.0	01/16/20

Prep Method: SW-846 7470A Prep-SW-846 7470A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
20A0650-02 [TRC-AOC-1-SW-01]	B250164	6.00	6.00	01/16/20

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0650-03 [TRC-AOC-1-SOLID-01]	B250163	0.614	50.0	01/16/20

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0650-03 [TRC-AOC-1-SOLID-01]	B250131	10.6	10.0	01/15/20

Prep Method: SW-846 3510C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
20A0650-02 [TRC-AOC-1-SW-01]	B250076	1000	10.0	01/15/20

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [Wipe]	Final [mL]	Date
20A0650-01 [TRC-AOC-1-WP-01]	B250127	1.00	10.0	01/15/20

Prep Method: SW-846 5035-SW-846 8260C-D

Lab Number [Field ID]	Batch	Sample Amount(g)	Methanol Volume(mL)	Methanol Aliquot(mL)	Final Volume(mL)	Date
20A0650-03 [TRC-AOC-1-SOLID-01]	B250151	6.03	8.64	1	50	01/16/20

Prep Method: SW-846 5030B-SW-846 8260C-D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
20A0650-02 [TRC-AOC-1-SW-01]	B250165	2.5	5.00	01/16/20

Prep Method: SW-846 3546-SW-846 8270D-E

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0650-03 [TRC-AOC-1-SOLID-01]	B250138	30.0	1.00	01/16/20
20A0650-03RE2 [TRC-AOC-1-SOLID-01]	B250138	30.0	1.00	01/16/20

Prep Method: SW-846 3510C-SW-846 8270D-E

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
20A0650-02 [TRC-AOC-1-SW-01]	B250091	1000	1.00	01/15/20

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250151 - SW-846 5035										
Blank (B250151-BLK1)				Prepared & Analyzed: 01/16/20						
Acetone	ND	2.5	mg/Kg wet							
Acrylonitrile	ND	0.25	mg/Kg wet							
Benzene	ND	0.050	mg/Kg wet							
Bromobenzene	ND	0.050	mg/Kg wet							
Bromodichloromethane	ND	0.050	mg/Kg wet							
Bromoform	ND	0.050	mg/Kg wet							
Bromomethane	ND	0.10	mg/Kg wet							
2-Butanone (MEK)	ND	1.0	mg/Kg wet							
n-Butylbenzene	ND	0.050	mg/Kg wet							
sec-Butylbenzene	ND	0.050	mg/Kg wet							
tert-Butylbenzene	ND	0.050	mg/Kg wet							
Carbon Disulfide	ND	0.25	mg/Kg wet							
Carbon Tetrachloride	ND	0.050	mg/Kg wet							
Chlorobenzene	ND	0.050	mg/Kg wet							
Chlorodibromomethane	ND	0.025	mg/Kg wet							
Chloroethane	ND	0.10	mg/Kg wet							
Chloroform	ND	0.10	mg/Kg wet							
Chloromethane	ND	0.10	mg/Kg wet							
2-Chlorotoluene	ND	0.050	mg/Kg wet							
4-Chlorotoluene	ND	0.050	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.25	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.025	mg/Kg wet							
Dibromomethane	ND	0.050	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.050	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.050	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.050	mg/Kg wet							
trans-1,4-Dichloro-2-butene	ND	0.10	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.10	mg/Kg wet							V-05
1,1-Dichloroethane	ND	0.050	mg/Kg wet							
1,2-Dichloroethane	ND	0.050	mg/Kg wet							
1,1-Dichloroethylene	ND	0.050	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.050	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.050	mg/Kg wet							
1,2-Dichloropropane	ND	0.050	mg/Kg wet							
1,3-Dichloropropane	ND	0.025	mg/Kg wet							
2,2-Dichloropropane	ND	0.050	mg/Kg wet							
1,1-Dichloropropene	ND	0.10	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.025	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.025	mg/Kg wet							
Ethylbenzene	ND	0.050	mg/Kg wet							
Hexachlorobutadiene	ND	0.050	mg/Kg wet							
2-Hexanone (MBK)	ND	0.50	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.050	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.050	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.050	mg/Kg wet							
Methylene Chloride	ND	0.25	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.50	mg/Kg wet							
Naphthalene	ND	0.10	mg/Kg wet							
n-Propylbenzene	ND	0.050	mg/Kg wet							
Styrene	ND	0.050	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.050	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.025	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250151 - SW-846 5035										
Blank (B250151-BLK1)				Prepared & Analyzed: 01/16/20						
Tetrachloroethylene	ND	0.050	mg/Kg wet							
Tetrahydrofuran	ND	0.50	mg/Kg wet							
Toluene	ND	0.050	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.25	mg/Kg wet							V-05
1,2,4-Trichlorobenzene	ND	0.050	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.050	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.050	mg/Kg wet							
Trichloroethylene	ND	0.050	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.10	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.10	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.050	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.050	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.050	mg/Kg wet							
Vinyl Chloride	ND	0.10	mg/Kg wet							
m+p Xylene	ND	0.10	mg/Kg wet							
o-Xylene	ND	0.050	mg/Kg wet							
Xylenes (total)	ND	0.0030	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	*0.0229*		mg/Kg wet	0.0250		91.5	70-130			
Surrogate: Toluene-d8	*0.0242*		mg/Kg wet	0.0250		96.7	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0231*		mg/Kg wet	0.0250		92.3	70-130			
LCS (B250151-BS1)				Prepared & Analyzed: 01/16/20						
Acetone	0.0988	0.057	mg/Kg wet	0.113		87.2	40-160			
Acrylonitrile	0.00950	0.0057	mg/Kg wet	0.0113		83.8	70-130			
Benzene	0.0109	0.0011	mg/Kg wet	0.0113		96.6	70-130			
Bromobenzene	0.0106	0.0011	mg/Kg wet	0.0113		93.9	70-130			
Bromodichloromethane	0.0110	0.0011	mg/Kg wet	0.0113		97.0	70-130			
Bromoform	0.0104	0.0011	mg/Kg wet	0.0113		91.5	70-130			
Bromomethane	0.0134	0.0023	mg/Kg wet	0.0113		118	40-160			
2-Butanone (MEK)	0.100	0.023	mg/Kg wet	0.113		88.7	40-160			
n-Butylbenzene	0.0104	0.0011	mg/Kg wet	0.0113		91.9	70-130			
sec-Butylbenzene	0.0115	0.0011	mg/Kg wet	0.0113		102	70-130			
tert-Butylbenzene	0.0116	0.0011	mg/Kg wet	0.0113		103	70-130			
Carbon Disulfide	0.110	0.0057	mg/Kg wet	0.113		96.9	70-130			
Carbon Tetrachloride	0.0108	0.0011	mg/Kg wet	0.0113		95.1	70-130			
Chlorobenzene	0.0115	0.0011	mg/Kg wet	0.0113		101	70-130			
Chlorodibromomethane	0.0108	0.00057	mg/Kg wet	0.0113		94.9	40-160			
Chloroethane	0.0115	0.0023	mg/Kg wet	0.0113		102	70-130			
Chloroform	0.0111	0.0023	mg/Kg wet	0.0113		97.7	70-130			
Chloromethane	0.0129	0.0023	mg/Kg wet	0.0113		114	40-160			
2-Chlorotoluene	0.0112	0.0011	mg/Kg wet	0.0113		98.4	70-130			
4-Chlorotoluene	0.0108	0.0011	mg/Kg wet	0.0113		95.1	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.00954	0.0057	mg/Kg wet	0.0113		84.2	70-130			
1,2-Dibromoethane (EDB)	0.0115	0.00057	mg/Kg wet	0.0113		101	70-130			
Dibromomethane	0.0104	0.0011	mg/Kg wet	0.0113		91.4	70-130			
1,2-Dichlorobenzene	0.0115	0.0011	mg/Kg wet	0.0113		101	70-130			
1,3-Dichlorobenzene	0.0117	0.0011	mg/Kg wet	0.0113		103	70-130			
1,4-Dichlorobenzene	0.0111	0.0011	mg/Kg wet	0.0113		97.8	70-130			
trans-1,4-Dichloro-2-butene	0.00986	0.0023	mg/Kg wet	0.0113		87.0	70-130			
Dichlorodifluoromethane (Freon 12)	0.00843	0.0023	mg/Kg wet	0.0113		74.4	40-160			V-05
1,1-Dichloroethane	0.0110	0.0011	mg/Kg wet	0.0113		97.0	70-130			
1,2-Dichloroethane	0.0105	0.0011	mg/Kg wet	0.0113		92.4	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250151 - SW-846 5035										
LCS (B250151-BS1)				Prepared & Analyzed: 01/16/20						
1,1-Dichloroethylene	0.0110	0.0011	mg/Kg wet	0.0113		97.4	70-130			
cis-1,2-Dichloroethylene	0.0113	0.0011	mg/Kg wet	0.0113		99.9	70-130			
trans-1,2-Dichloroethylene	0.0111	0.0011	mg/Kg wet	0.0113		97.6	70-130			
1,2-Dichloropropane	0.0114	0.0011	mg/Kg wet	0.0113		101	70-130			
1,3-Dichloropropane	0.0112	0.00057	mg/Kg wet	0.0113		99.2	70-130			
2,2-Dichloropropane	0.0108	0.0011	mg/Kg wet	0.0113		94.9	70-130			
1,1-Dichloropropene	0.0117	0.0023	mg/Kg wet	0.0113		103	70-130			
cis-1,3-Dichloropropene	0.0112	0.00057	mg/Kg wet	0.0113		99.2	70-130			
trans-1,3-Dichloropropene	0.0105	0.00057	mg/Kg wet	0.0113		93.0	70-130			
Ethylbenzene	0.0111	0.0011	mg/Kg wet	0.0113		98.0	70-130			
Hexachlorobutadiene	0.0108	0.0011	mg/Kg wet	0.0113		95.1	40-160			
2-Hexanone (MBK)	0.0989	0.011	mg/Kg wet	0.113		87.2	70-130			
Isopropylbenzene (Cumene)	0.0115	0.0011	mg/Kg wet	0.0113		101	70-130			
p-Isopropyltoluene (p-Cymene)	0.0109	0.0011	mg/Kg wet	0.0113		96.3	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0105	0.0011	mg/Kg wet	0.0113		93.0	70-130			
Methylene Chloride	0.0112	0.0057	mg/Kg wet	0.0113		98.9	70-130			
4-Methyl-2-pentanone (MIBK)	0.0944	0.011	mg/Kg wet	0.113		83.3	40-160			
Naphthalene	0.00859	0.0023	mg/Kg wet	0.0113		75.8	70-130			
n-Propylbenzene	0.0111	0.0011	mg/Kg wet	0.0113		97.7	70-130			
Styrene	0.0110	0.0011	mg/Kg wet	0.0113		97.1	70-130			
1,1,1,2-Tetrachloroethane	0.0115	0.0011	mg/Kg wet	0.0113		102	70-130			
1,1,2,2-Tetrachloroethane	0.0120	0.00057	mg/Kg wet	0.0113		106	70-130			
Tetrachloroethylene	0.0118	0.0011	mg/Kg wet	0.0113		104	70-130			
Tetrahydrofuran	0.0101	0.011	mg/Kg wet	0.0113		89.2	70-130			
Toluene	0.0110	0.0011	mg/Kg wet	0.0113		97.5	70-130			
1,2,3-Trichlorobenzene	0.00819	0.0057	mg/Kg wet	0.0113		72.3	70-130			V-05
1,2,4-Trichlorobenzene	0.00869	0.0011	mg/Kg wet	0.0113		76.7	70-130			
1,1,1-Trichloroethane	0.0110	0.0011	mg/Kg wet	0.0113		96.9	70-130			
1,1,2-Trichloroethane	0.0115	0.0011	mg/Kg wet	0.0113		101	70-130			
Trichloroethylene	0.0112	0.0011	mg/Kg wet	0.0113		98.8	70-130			
Trichlorofluoromethane (Freon 11)	0.0108	0.0023	mg/Kg wet	0.0113		95.1	40-160			
1,2,3-Trichloropropane	0.0107	0.0023	mg/Kg wet	0.0113		94.8	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0115	0.0011	mg/Kg wet	0.0113		102	70-130			
1,2,4-Trimethylbenzene	0.0113	0.0011	mg/Kg wet	0.0113		99.4	70-130			
1,3,5-Trimethylbenzene	0.0105	0.0011	mg/Kg wet	0.0113		92.4	70-130			
Vinyl Chloride	0.0109	0.0023	mg/Kg wet	0.0113		96.6	70-130			
m+p Xylene	0.0219	0.0023	mg/Kg wet	0.0227		96.4	70-130			
o-Xylene	0.0115	0.0011	mg/Kg wet	0.0113		102	70-130			
Xylenes (total)	0.0334	0.0034	mg/Kg wet	0.0340		98.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0261*		mg/Kg wet	0.0283		92.0	70-130			
Surrogate: Toluene-d8	*0.0278*		mg/Kg wet	0.0283		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0281*		mg/Kg wet	0.0283		99.3	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250165 - SW-846 5030B										
Blank (B250165-BLK1)				Prepared & Analyzed: 01/16/20						
Acetone	ND	10	µg/L							
Acrylonitrile	ND	2.0	µg/L							
Benzene	ND	0.50	µg/L							
Bromobenzene	ND	0.50	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	0.50	µg/L							
Bromomethane	ND	1.0	µg/L							
2-Butanone (MEK)	ND	5.0	µg/L							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
Carbon Disulfide	ND	5.0	µg/L							
Carbon Tetrachloride	ND	0.50	µg/L							
Chlorobenzene	ND	0.50	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	0.50	µg/L							
Chloroform	ND	0.50	µg/L							
Chloromethane	ND	0.60	µg/L							
2-Chlorotoluene	ND	0.50	µg/L							
4-Chlorotoluene	ND	0.50	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	1.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	0.50	µg/L							
1,2-Dichlorobenzene	ND	0.50	µg/L							
1,3-Dichlorobenzene	ND	0.50	µg/L							
1,4-Dichlorobenzene	ND	0.50	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L							V-05
1,1-Dichloroethane	ND	0.50	µg/L							
1,2-Dichloroethane	ND	0.50	µg/L							
1,1-Dichloroethylene	ND	0.50	µg/L							
cis-1,2-Dichloroethylene	ND	0.50	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	0.50	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	0.50	µg/L							
1,1-Dichloropropene	ND	0.50	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Ethylbenzene	ND	0.50	µg/L							
Hexachlorobutadiene	ND	0.60	µg/L							
2-Hexanone (MBK)	ND	5.0	µg/L							
Isopropylbenzene (Cumene)	ND	0.50	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	0.50	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L							
Naphthalene	ND	2.0	µg/L							
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250165 - SW-846 5030B										
Blank (B250165-BLK1)				Prepared & Analyzed: 01/16/20						
Tetrachloroethylene	ND	1.0	µg/L							
Tetrahydrofuran	ND	10	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	1.0	µg/L							V-05
1,2,4-Trichlorobenzene	ND	0.50	µg/L							
1,1,1-Trichloroethane	ND	0.50	µg/L							
1,1,2-Trichloroethane	ND	0.50	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,2,3-Trichloropropane	ND	0.50	µg/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L							
1,2,4-Trimethylbenzene	ND	0.50	µg/L							
1,3,5-Trimethylbenzene	ND	0.50	µg/L							
Vinyl Chloride	ND	1.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Xylenes (total)	ND	3.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	*22.9*		µg/L	25.0		91.5	70-130			
Surrogate: Toluene-d8	*24.2*		µg/L	25.0		96.7	70-130			
Surrogate: 4-Bromofluorobenzene	*23.1*		µg/L	25.0		92.3	70-130			
LCS (B250165-BS1)				Prepared & Analyzed: 01/16/20						
Acetone	87.2	10	µg/L	100		87.2	40-160			
Acrylonitrile	8.38	2.0	µg/L	10.0		83.8	70-130			
Benzene	9.66	0.50	µg/L	10.0		96.6	70-130			
Bromobenzene	9.39	0.50	µg/L	10.0		93.9	70-130			
Bromodichloromethane	9.70	0.50	µg/L	10.0		97.0	70-130			
Bromoform	9.15	0.50	µg/L	10.0		91.5	70-130			
Bromomethane	11.8	1.0	µg/L	10.0		118	40-160			
2-Butanone (MEK)	88.7	5.0	µg/L	100		88.7	40-160			
n-Butylbenzene	9.19	1.0	µg/L	10.0		91.9	70-130			
sec-Butylbenzene	10.2	1.0	µg/L	10.0		102	70-130			
tert-Butylbenzene	10.3	1.0	µg/L	10.0		103	70-130			
Carbon Disulfide	96.9	5.0	µg/L	100		96.9	70-130			
Carbon Tetrachloride	9.51	0.50	µg/L	10.0		95.1	70-130			
Chlorobenzene	10.1	0.50	µg/L	10.0		101	70-130			
Chlorodibromomethane	9.49	0.50	µg/L	10.0		94.9	40-160			
Chloroethane	10.2	0.50	µg/L	10.0		102	70-130			
Chloroform	9.77	0.50	µg/L	10.0		97.7	70-130			
Chloromethane	11.4	0.60	µg/L	10.0		114	40-160			
2-Chlorotoluene	9.84	0.50	µg/L	10.0		98.4	70-130			
4-Chlorotoluene	9.51	0.50	µg/L	10.0		95.1	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	8.42	1.0	µg/L	10.0		84.2	70-130			
1,2-Dibromoethane (EDB)	10.1	0.50	µg/L	10.0		101	70-130			
Dibromomethane	9.14	0.50	µg/L	10.0		91.4	70-130			
1,2-Dichlorobenzene	10.1	0.50	µg/L	10.0		101	70-130			
1,3-Dichlorobenzene	10.3	0.50	µg/L	10.0		103	70-130			
1,4-Dichlorobenzene	9.78	0.50	µg/L	10.0		97.8	70-130			
trans-1,4-Dichloro-2-butene	8.70	2.0	µg/L	10.0		87.0	70-130			
Dichlorodifluoromethane (Freon 12)	7.44	0.50	µg/L	10.0		74.4	40-160			V-05
1,1-Dichloroethane	9.70	0.50	µg/L	10.0		97.0	70-130			
1,2-Dichloroethane	9.24	0.50	µg/L	10.0		92.4	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250165 - SW-846 5030B										
LCS (B250165-BS1)				Prepared & Analyzed: 01/16/20						
1,1-Dichloroethylene	9.74	0.50	µg/L	10.0		97.4	70-130			
cis-1,2-Dichloroethylene	9.99	0.50	µg/L	10.0		99.9	70-130			
trans-1,2-Dichloroethylene	9.76	1.0	µg/L	10.0		97.6	70-130			
1,2-Dichloropropane	10.1	0.50	µg/L	10.0		101	70-130			
1,3-Dichloropropane	9.92	0.50	µg/L	10.0		99.2	70-130			
2,2-Dichloropropane	9.49	0.50	µg/L	10.0		94.9	70-130			
1,1-Dichloropropene	10.3	0.50	µg/L	10.0		103	70-130			
cis-1,3-Dichloropropene	9.92	0.50	µg/L	10.0		99.2	70-130			
trans-1,3-Dichloropropene	9.30	0.50	µg/L	10.0		93.0	70-130			
Ethylbenzene	9.80	0.50	µg/L	10.0		98.0	70-130			
Hexachlorobutadiene	9.51	0.60	µg/L	10.0		95.1	40-160			
2-Hexanone (MBK)	87.2	5.0	µg/L	100		87.2	70-130			
Isopropylbenzene (Cumene)	10.1	0.50	µg/L	10.0		101	70-130			
p-Isopropyltoluene (p-Cymene)	9.63	0.50	µg/L	10.0		96.3	70-130			
Methyl tert-Butyl Ether (MTBE)	9.30	0.50	µg/L	10.0		93.0	70-130			
Methylene Chloride	9.89	5.0	µg/L	10.0		98.9	70-130			
4-Methyl-2-pentanone (MIBK)	83.3	5.0	µg/L	100		83.3	40-160			
Naphthalene	7.58	2.0	µg/L	10.0		75.8	70-130			
n-Propylbenzene	9.77	1.0	µg/L	10.0		97.7	70-130			
Styrene	9.71	1.0	µg/L	10.0		97.1	70-130			
1,1,1,2-Tetrachloroethane	10.2	0.50	µg/L	10.0		102	70-130			
1,1,2,2-Tetrachloroethane	10.6	0.50	µg/L	10.0		106	70-130			
Tetrachloroethylene	10.4	1.0	µg/L	10.0		104	70-130			
Tetrahydrofuran	8.92	10	µg/L	10.0		89.2	70-130			
Toluene	9.75	1.0	µg/L	10.0		97.5	70-130			
1,2,3-Trichlorobenzene	7.23	1.0	µg/L	10.0		72.3	70-130			V-05
1,2,4-Trichlorobenzene	7.67	0.50	µg/L	10.0		76.7	70-130			
1,1,1-Trichloroethane	9.69	0.50	µg/L	10.0		96.9	70-130			
1,1,2-Trichloroethane	10.1	0.50	µg/L	10.0		101	70-130			
Trichloroethylene	9.88	1.0	µg/L	10.0		98.8	70-130			
Trichlorofluoromethane (Freon 11)	9.51	2.0	µg/L	10.0		95.1	40-160			
1,2,3-Trichloropropane	9.48	0.50	µg/L	10.0		94.8	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.2	0.50	µg/L	10.0		102	70-130			
1,2,4-Trimethylbenzene	9.94	0.50	µg/L	10.0		99.4	70-130			
1,3,5-Trimethylbenzene	9.24	0.50	µg/L	10.0		92.4	70-130			
Vinyl Chloride	9.66	1.0	µg/L	10.0		96.6	70-130			
m+p Xylene	19.3	2.0	µg/L	20.0		96.4	70-130			
o-Xylene	10.2	1.0	µg/L	10.0		102	70-130			
Xylenes (total)	29.5	3.0	µg/L	30.0		98.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	*23.0*		µg/L	25.0		92.0	70-130			
Surrogate: Toluene-d8	*24.5*		µg/L	25.0		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	*24.8*		µg/L	25.0		99.3	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250091 - SW-846 3510C										
Blank (B250091-BLK1)				Prepared: 01/15/20 Analyzed: 01/16/20						
Acenaphthene	ND	5.0	µg/L							
Acenaphthylene	ND	5.0	µg/L							
Aniline	ND	5.0	µg/L							
Anthracene	ND	5.0	µg/L							
Benzo(a)anthracene	ND	5.0	µg/L							
Benzo(a)pyrene	ND	5.0	µg/L							
Benzo(b)fluoranthene	ND	5.0	µg/L							
Benzo(g,h,i)perylene	ND	5.0	µg/L							
Benzo(k)fluoranthene	ND	5.0	µg/L							
Bis(2-chloroethoxy)methane	ND	10	µg/L							
Bis(2-chloroethyl)ether	ND	10	µg/L							
Bis(2-chloroisopropyl)ether	ND	10	µg/L							V-06
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L							
4-Bromophenylphenylether	ND	10	µg/L							
Butylbenzylphthalate	ND	10	µg/L							
Carbazole	ND	10	µg/L							
4-Chloroaniline	ND	10	µg/L							
4-Chloro-3-methylphenol	ND	10	µg/L							
2-Chloronaphthalene	ND	10	µg/L							
2-Chlorophenol	ND	10	µg/L							
4-Chlorophenylphenylether	ND	10	µg/L							
Chrysene	ND	5.0	µg/L							
Dibenz(a,h)anthracene	ND	5.0	µg/L							
Dibenzofuran	ND	5.0	µg/L							
Di-n-butylphthalate	ND	10	µg/L							
3,3-Dichlorobenzidine	ND	10	µg/L							
2,4-Dichlorophenol	ND	10	µg/L							
Diethylphthalate	ND	10	µg/L							
2,4-Dimethylphenol	ND	10	µg/L							
Dimethylphthalate	ND	10	µg/L							
4,6-Dinitro-2-methylphenol	ND	10	µg/L							
2,4-Dinitrophenol	ND	10	µg/L							
2,4-Dinitrotoluene	ND	10	µg/L							
2,6-Dinitrotoluene	ND	10	µg/L							
Di-n-octylphthalate	ND	10	µg/L							
Fluoranthene	ND	5.0	µg/L							
Fluorene	ND	5.0	µg/L							
Hexachlorobenzene	ND	10	µg/L							
Hexachlorobutadiene	ND	10	µg/L							
Hexachlorocyclopentadiene	ND	10	µg/L							V-05
Hexachloroethane	ND	10	µg/L							
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L							
Isophorone	ND	10	µg/L							
2-Methylnaphthalene	ND	5.0	µg/L							
2-Methylphenol	ND	10	µg/L							
3/4-Methylphenol	ND	10	µg/L							
Naphthalene	ND	5.0	µg/L							
2-Nitroaniline	ND	10	µg/L							
3-Nitroaniline	ND	10	µg/L							
4-Nitroaniline	ND	10	µg/L							
Nitrobenzene	ND	10	µg/L							
2-Nitrophenol	ND	10	µg/L							

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250091 - SW-846 3510C										
Blank (B250091-BLK1)				Prepared: 01/15/20 Analyzed: 01/16/20						
4-Nitrophenol	ND	10	µg/L							
N-Nitrosodiphenylamine/Diphenylamine	ND	10	µg/L							
N-Nitrosodi-n-propylamine	ND	10	µg/L							
Pentachloronitrobenzene	ND	10	µg/L							
Pentachlorophenol	ND	10	µg/L							
Phenanthrene	ND	5.0	µg/L							
Phenol	ND	10	µg/L							
Pyrene	ND	5.0	µg/L							
Pyridine	ND	5.0	µg/L							
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L							
1,2,4-Trichlorobenzene	ND	5.0	µg/L							
2,4,5-Trichlorophenol	ND	10	µg/L							
2,4,6-Trichlorophenol	ND	10	µg/L							
Surrogate: 2-Fluorophenol	*109*		µg/L	200		54.4	15-110			
Surrogate: Phenol-d6	*79.0*		µg/L	200		39.5	15-110			
Surrogate: Nitrobenzene-d5	*80.3*		µg/L	100		80.3	30-130			
Surrogate: 2-Fluorobiphenyl	*103*		µg/L	100		103	30-130			
Surrogate: 2,4,6-Tribromophenol	*176*		µg/L	200		87.8	15-110			
Surrogate: p-Terphenyl-d14	*92.4*		µg/L	100		92.4	30-130			
LCS (B250091-BS1)				Prepared: 01/15/20 Analyzed: 01/16/20						
Acenaphthene	38.9	5.0	µg/L	50.0		77.7	40-140			
Acenaphthylene	38.3	5.0	µg/L	50.0		76.5	40-140			
Aniline	29.0	5.0	µg/L	50.0		58.0	40-140			†
Anthracene	40.5	5.0	µg/L	50.0		81.0	40-140			
Benzo(a)anthracene	40.4	5.0	µg/L	50.0		80.9	40-140			
Benzo(a)pyrene	40.0	5.0	µg/L	50.0		80.0	40-140			
Benzo(b)fluoranthene	39.9	5.0	µg/L	50.0		79.8	40-140			
Benzo(g,h,i)perylene	39.8	5.0	µg/L	50.0		79.6	40-140			
Benzo(k)fluoranthene	41.4	5.0	µg/L	50.0		82.8	40-140			
Bis(2-chloroethoxy)methane	37.4	10	µg/L	50.0		74.7	40-140			
Bis(2-chloroethyl)ether	38.7	10	µg/L	50.0		77.3	40-140			
Bis(2-chloroisopropyl)ether	53.7	10	µg/L	50.0		107	40-140			V-06
Bis(2-Ethylhexyl)phthalate	39.8	10	µg/L	50.0		79.7	40-140			
4-Bromophenylphenylether	40.6	10	µg/L	50.0		81.3	40-140			
Butylbenzylphthalate	39.1	10	µg/L	50.0		78.1	40-140			
Carbazole	39.4	10	µg/L	50.0		78.8	40-140			
4-Chloroaniline	37.3	10	µg/L	50.0		74.7	40-140			†
4-Chloro-3-methylphenol	43.4	10	µg/L	50.0		86.9	30-130			
2-Chloronaphthalene	36.4	10	µg/L	50.0		72.8	40-140			
2-Chlorophenol	37.0	10	µg/L	50.0		74.1	30-130			
4-Chlorophenylphenylether	40.4	10	µg/L	50.0		80.8	40-140			
Chrysene	40.0	5.0	µg/L	50.0		80.0	40-140			
Dibenz(a,h)anthracene	41.1	5.0	µg/L	50.0		82.2	40-140			
Dibenzofuran	41.7	5.0	µg/L	50.0		83.4	40-140			
Di-n-butylphthalate	43.1	10	µg/L	50.0		86.1	40-140			
3,3-Dichlorobenzidine	50.3	10	µg/L	50.0		101	40-140			†
2,4-Dichlorophenol	40.7	10	µg/L	50.0		81.5	30-130			
Diethylphthalate	41.4	10	µg/L	50.0		82.8	40-140			
2,4-Dimethylphenol	34.2	10	µg/L	50.0		68.4	30-130			
Dimethylphthalate	40.5	10	µg/L	50.0		80.9	40-140			
4,6-Dinitro-2-methylphenol	38.7	10	µg/L	50.0		77.3	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250091 - SW-846 3510C										
LCS (B250091-BS1)				Prepared: 01/15/20 Analyzed: 01/16/20						
2,4-Dinitrophenol	32.0	10	µg/L	50.0		64.0	30-130			
2,4-Dinitrotoluene	39.6	10	µg/L	50.0		79.1	40-140			
2,6-Dinitrotoluene	41.3	10	µg/L	50.0		82.6	40-140			
Di-n-octylphthalate	38.8	10	µg/L	50.0		77.7	40-140			
Fluoranthene	43.3	5.0	µg/L	50.0		86.5	40-140			
Fluorene	39.4	5.0	µg/L	50.0		78.8	40-140			
Hexachlorobenzene	42.6	10	µg/L	50.0		85.3	40-140			
Hexachlorobutadiene	39.1	10	µg/L	50.0		78.1	40-140			
Hexachlorocyclopentadiene	20.3	10	µg/L	50.0		40.6	30-140			V-05
Hexachloroethane	32.2	10	µg/L	50.0		64.3	40-140			
Indeno(1,2,3-cd)pyrene	41.6	5.0	µg/L	50.0		83.2	40-140			
Isophorone	42.4	10	µg/L	50.0		84.9	40-140			
2-Methylnaphthalene	44.2	5.0	µg/L	50.0		88.5	40-140			
2-Methylphenol	33.4	10	µg/L	50.0		66.7	30-130			
3/4-Methylphenol	35.0	10	µg/L	50.0		70.0	30-130			
Naphthalene	37.4	5.0	µg/L	50.0		74.8	40-140			
2-Nitroaniline	46.1	10	µg/L	50.0		92.1	40-140			
3-Nitroaniline	37.6	10	µg/L	50.0		75.3	40-140			†
4-Nitroaniline	40.2	10	µg/L	50.0		80.4	40-140			
Nitrobenzene	39.5	10	µg/L	50.0		79.0	40-140			
2-Nitrophenol	39.0	10	µg/L	50.0		78.0	30-130			
4-Nitrophenol	26.3	10	µg/L	50.0		52.5	10-130			
N-Nitrosodiphenylamine/Diphenylamine	41.7	10	µg/L	50.0		83.3	40-140			
N-Nitrosodi-n-propylamine	41.9	10	µg/L	50.0		83.7	40-140			
Pentachloronitrobenzene	41.9	10	µg/L	50.0		83.9	40-140			
Pentachlorophenol	34.2	10	µg/L	50.0		68.4	30-130			
Phenanthrene	41.5	5.0	µg/L	50.0		83.0	40-140			
Phenol	19.0	10	µg/L	50.0		38.1	20-130			
Pyrene	38.9	5.0	µg/L	50.0		77.8	40-140			
Pyridine	6.86	5.0	µg/L	50.0		13.7	10-140			†
1,2,4,5-Tetrachlorobenzene	39.2	10	µg/L	50.0		78.3	40-140			
1,2,4-Trichlorobenzene	37.0	5.0	µg/L	50.0		74.0	40-140			
2,4,5-Trichlorophenol	40.4	10	µg/L	50.0		80.8	30-130			
2,4,6-Trichlorophenol	39.7	10	µg/L	50.0		79.3	30-130			
Surrogate: 2-Fluorophenol	*108*		µg/L	200		54.2	15-110			
Surrogate: Phenol-d6	*83.4*		µg/L	200		41.7	15-110			
Surrogate: Nitrobenzene-d5	*78.0*		µg/L	100		78.0	30-130			
Surrogate: 2-Fluorobiphenyl	*104*		µg/L	100		104	30-130			
Surrogate: 2,4,6-Tribromophenol	*183*		µg/L	200		91.7	15-110			
Surrogate: p-Terphenyl-d14	*88.9*		µg/L	100		88.9	30-130			
LCS Dup (B250091-BSD1)				Prepared: 01/15/20 Analyzed: 01/16/20						
Acenaphthene	36.3	5.0	µg/L	50.0		72.6	40-140	6.84	20	
Acenaphthylene	35.8	5.0	µg/L	50.0		71.5	40-140	6.73	20	
Aniline	32.4	5.0	µg/L	50.0		64.9	40-140	11.3	50	† ‡
Anthracene	36.9	5.0	µg/L	50.0		73.8	40-140	9.20	20	
Benzo(a)anthracene	36.9	5.0	µg/L	50.0		73.7	40-140	9.26	20	
Benzo(a)pyrene	35.6	5.0	µg/L	50.0		71.2	40-140	11.6	20	
Benzo(b)fluoranthene	36.0	5.0	µg/L	50.0		72.0	40-140	10.3	20	
Benzo(g,h,i)perylene	35.5	5.0	µg/L	50.0		71.1	40-140	11.3	20	
Benzo(k)fluoranthene	36.8	5.0	µg/L	50.0		73.6	40-140	11.7	20	
Bis(2-chloroethoxy)methane	34.4	10	µg/L	50.0		68.8	40-140	8.16	20	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B250091 - SW-846 3510C											
LCS Dup (B250091-BSD1)				Prepared: 01/15/20 Analyzed: 01/16/20							
Bis(2-chloroethyl)ether	37.3	10	µg/L	50.0		74.6	40-140	3.66	20		
Bis(2-chloroisopropyl)ether	52.7	10	µg/L	50.0		105	40-140	1.99	20	V-06	
Bis(2-Ethylhexyl)phthalate	34.5	10	µg/L	50.0		69.0	40-140	14.4	20		
4-Bromophenylphenylether	36.6	10	µg/L	50.0		73.3	40-140	10.4	20		
Butylbenzylphthalate	34.6	10	µg/L	50.0		69.1	40-140	12.3	20		
Carbazole	35.8	10	µg/L	50.0		71.6	40-140	9.57	20		
4-Chloroaniline	33.6	10	µg/L	50.0		67.2	40-140	10.5	20		†
4-Chloro-3-methylphenol	39.9	10	µg/L	50.0		79.8	30-130	8.45	20		
2-Chloronaphthalene	34.4	10	µg/L	50.0		68.8	40-140	5.56	20		
2-Chlorophenol	36.0	10	µg/L	50.0		72.0	30-130	2.88	20		
4-Chlorophenylphenylether	37.5	10	µg/L	50.0		74.9	40-140	7.50	20		
Chrysene	35.9	5.0	µg/L	50.0		71.8	40-140	10.8	20		
Dibenz(a,h)anthracene	37.2	5.0	µg/L	50.0		74.4	40-140	9.86	20		
Dibenzofuran	38.5	5.0	µg/L	50.0		77.0	40-140	7.98	20		
Di-n-butylphthalate	38.1	10	µg/L	50.0		76.2	40-140	12.3	20		
3,3-Dichlorobenzidine	45.3	10	µg/L	50.0		90.6	40-140	10.5	20		† ‡
2,4-Dichlorophenol	38.0	10	µg/L	50.0		76.0	30-130	6.91	20		
Diethylphthalate	38.5	10	µg/L	50.0		76.9	40-140	7.34	20		
2,4-Dimethylphenol	31.4	10	µg/L	50.0		62.7	30-130	8.72	20		
Dimethylphthalate	37.9	10	µg/L	50.0		75.7	40-140	6.61	50		
4,6-Dinitro-2-methylphenol	35.8	10	µg/L	50.0		71.5	30-130	7.77	50		
2,4-Dinitrophenol	29.6	10	µg/L	50.0		59.2	30-130	7.76	50		
2,4-Dinitrotoluene	36.8	10	µg/L	50.0		73.7	40-140	7.09	20		
2,6-Dinitrotoluene	37.9	10	µg/L	50.0		75.8	40-140	8.61	20		
Di-n-octylphthalate	33.2	10	µg/L	50.0		66.4	40-140	15.6	20		
Fluoranthene	39.0	5.0	µg/L	50.0		77.9	40-140	10.5	20		
Fluorene	36.6	5.0	µg/L	50.0		73.3	40-140	7.31	20		
Hexachlorobenzene	38.3	10	µg/L	50.0		76.7	40-140	10.6	20		
Hexachlorobutadiene	37.0	10	µg/L	50.0		74.0	40-140	5.42	20		
Hexachlorocyclopentadiene	19.4	10	µg/L	50.0		38.8	30-140	4.38	50	V-05	
Hexachloroethane	33.5	10	µg/L	50.0		67.0	40-140	4.11	50		
Indeno(1,2,3-cd)pyrene	38.6	5.0	µg/L	50.0		77.3	40-140	7.38	50		
Isophorone	39.8	10	µg/L	50.0		79.5	40-140	6.52	20		
2-Methylnaphthalene	41.0	5.0	µg/L	50.0		82.0	40-140	7.60	20		
2-Methylphenol	32.2	10	µg/L	50.0		64.4	30-130	3.51	20		
3/4-Methylphenol	33.0	10	µg/L	50.0		66.1	30-130	5.79	20		
Naphthalene	35.1	5.0	µg/L	50.0		70.2	40-140	6.37	20		
2-Nitroaniline	43.2	10	µg/L	50.0		86.4	40-140	6.39	20		
3-Nitroaniline	35.2	10	µg/L	50.0		70.4	40-140	6.73	20		†
4-Nitroaniline	37.7	10	µg/L	50.0		75.3	40-140	6.47	20		
Nitrobenzene	37.0	10	µg/L	50.0		74.0	40-140	6.59	20		
2-Nitrophenol	36.6	10	µg/L	50.0		73.1	30-130	6.43	20		
4-Nitrophenol	24.2	10	µg/L	50.0		48.3	10-130	8.33	50		‡
N-Nitrosodiphenylamine/Diphenylamine	38.3	10	µg/L	50.0		76.6	40-140	8.38	20		
N-Nitrosodi-n-propylamine	40.3	10	µg/L	50.0		80.6	40-140	3.80	20		
Pentachloronitrobenzene	38.0	10	µg/L	50.0		76.0	40-140	9.86	20		
Pentachlorophenol	29.6	10	µg/L	50.0		59.3	30-130	14.3	50		
Phenanthrene	37.4	5.0	µg/L	50.0		74.8	40-140	10.4	20		
Phenol	17.5	10	µg/L	50.0		35.0	20-130	8.49	20		
Pyrene	35.1	5.0	µg/L	50.0		70.2	40-140	10.4	20		
Pyridine	8.30	5.0	µg/L	50.0		16.6	10-140	19.0	50		†
1,2,4,5-Tetrachlorobenzene	36.2	10	µg/L	50.0		72.4	40-140	7.91	20		

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250091 - SW-846 3510C										
LCS Dup (B250091-BSD1)				Prepared: 01/15/20 Analyzed: 01/16/20						
1,2,4-Trichlorobenzene	35.6	5.0	µg/L	50.0		71.1	40-140	3.94	20	
2,4,5-Trichlorophenol	38.1	10	µg/L	50.0		76.3	30-130	5.73	20	
2,4,6-Trichlorophenol	36.8	10	µg/L	50.0		73.7	30-130	7.37	50	
Surrogate: 2-Fluorophenol	*103*		µg/L	200		51.5	15-110			
Surrogate: Phenol-d6	*76.2*		µg/L	200		38.1	15-110			
Surrogate: Nitrobenzene-d5	*73.0*		µg/L	100		73.0	30-130			
Surrogate: 2-Fluorobiphenyl	*96.2*		µg/L	100		96.2	30-130			
Surrogate: 2,4,6-Tribromophenol	*165*		µg/L	200		82.6	15-110			
Surrogate: p-Terphenyl-d14	*78.3*		µg/L	100		78.3	30-130			
Batch B250138 - SW-846 3546										
Blank (B250138-BLK1)				Prepared & Analyzed: 01/16/20						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Aniline	ND	0.34	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
Carbazole	ND	0.17	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							
4-Chloro-3-methylphenol	ND	0.66	mg/Kg wet							
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
4-Chlorophenylphenylether	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
4,6-Dinitro-2-methylphenol	ND	0.34	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachlorocyclopentadiene	ND	0.34	mg/Kg wet							

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250138 - SW-846 3546										
Blank (B250138-BLK1)				Prepared & Analyzed: 01/16/20						
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
2-Nitroaniline	ND	0.34	mg/Kg wet							
3-Nitroaniline	ND	0.34	mg/Kg wet							
4-Nitroaniline	ND	0.34	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							
4-Nitrophenol	ND	0.66	mg/Kg wet							
N-Nitrosodiphenylamine/Diphenylamine	ND	0.34	mg/Kg wet							
N-Nitrosodi-n-propylamine	ND	0.34	mg/Kg wet							
Pentachloronitrobenzene	ND	0.34	mg/Kg wet							
Pentachlorophenol	ND	0.34	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Phenol	ND	0.34	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Pyridine	ND	0.34	mg/Kg wet							
1,2,4,5-Tetrachlorobenzene	ND	0.34	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg wet							
2,4,5-Trichlorophenol	ND	0.34	mg/Kg wet							
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet							
Surrogate: 2-Fluorophenol	*5.48*		mg/Kg wet	6.67		82.1	30-130			
Surrogate: Phenol-d6	*5.78*		mg/Kg wet	6.67		86.7	30-130			
Surrogate: Nitrobenzene-d5	*2.65*		mg/Kg wet	3.33		79.5	30-130			
Surrogate: 2-Fluorobiphenyl	*3.27*		mg/Kg wet	3.33		98.2	30-130			
Surrogate: 2,4,6-Tribromophenol	*5.50*		mg/Kg wet	6.67		82.4	30-130			
Surrogate: p-Terphenyl-d14	*3.01*		mg/Kg wet	3.33		90.3	30-130			
LCS (B250138-BS1)				Prepared & Analyzed: 01/16/20						
Acenaphthene	1.33	0.17	mg/Kg wet	1.67		80.0	40-140			
Acenaphthylene	1.35	0.17	mg/Kg wet	1.67		81.2	40-140			
Aniline	1.12	0.34	mg/Kg wet	1.67		67.1	40-140			†
Anthracene	1.43	0.17	mg/Kg wet	1.67		85.5	40-140			
Benzo(a)anthracene	1.43	0.17	mg/Kg wet	1.67		85.8	40-140			
Benzo(a)pyrene	1.40	0.17	mg/Kg wet	1.67		84.2	40-140			
Benzo(b)fluoranthene	1.46	0.17	mg/Kg wet	1.67		87.3	40-140			
Benzo(g,h,i)perylene	1.33	0.17	mg/Kg wet	1.67		80.0	40-140			
Benzo(k)fluoranthene	1.48	0.17	mg/Kg wet	1.67		89.0	40-140			
Bis(2-chloroethoxy)methane	1.39	0.34	mg/Kg wet	1.67		83.5	40-140			
Bis(2-chloroethyl)ether	1.36	0.34	mg/Kg wet	1.67		81.6	40-140			
Bis(2-chloroisopropyl)ether	1.61	0.34	mg/Kg wet	1.67		96.8	40-140			
Bis(2-Ethylhexyl)phthalate	1.56	0.34	mg/Kg wet	1.67		93.4	40-140			
4-Bromophenylphenylether	1.39	0.34	mg/Kg wet	1.67		83.5	40-140			
Butylbenzylphthalate	1.44	0.34	mg/Kg wet	1.67		86.3	40-140			
Carbazole	1.36	0.17	mg/Kg wet	1.67		81.6	40-140			
4-Chloroaniline	1.02	0.66	mg/Kg wet	1.67		61.5	40-140			†
4-Chloro-3-methylphenol	1.40	0.66	mg/Kg wet	1.67		84.0	30-130			
2-Chloronaphthalene	1.24	0.34	mg/Kg wet	1.67		74.2	40-140			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250138 - SW-846 3546										
LCS (B250138-BS1)				Prepared & Analyzed: 01/16/20						
2-Chlorophenol	1.27	0.34	mg/Kg wet	1.67		76.0	30-130			
4-Chlorophenylphenylether	1.38	0.34	mg/Kg wet	1.67		82.9	40-140			
Chrysene	1.42	0.17	mg/Kg wet	1.67		85.1	40-140			
Dibenz(a,h)anthracene	1.28	0.17	mg/Kg wet	1.67		77.0	40-140			
Dibenzofuran	1.39	0.34	mg/Kg wet	1.67		83.3	40-140			
Di-n-butylphthalate	1.44	0.34	mg/Kg wet	1.67		86.2	40-140			
3,3-Dichlorobenzidine	1.08	0.17	mg/Kg wet	1.67		64.6	40-140			†
2,4-Dichlorophenol	1.37	0.34	mg/Kg wet	1.67		82.4	30-130			
Diethylphthalate	1.43	0.34	mg/Kg wet	1.67		85.9	40-140			
2,4-Dimethylphenol	1.38	0.34	mg/Kg wet	1.67		82.9	30-130			
Dimethylphthalate	1.37	0.34	mg/Kg wet	1.67		82.5	40-140			
4,6-Dinitro-2-methylphenol	1.22	0.34	mg/Kg wet	1.67		72.9	30-130			
2,4-Dinitrophenol	0.858	0.66	mg/Kg wet	1.67		51.5	30-130			
2,4-Dinitrotoluene	1.46	0.34	mg/Kg wet	1.67		87.3	40-140			
2,6-Dinitrotoluene	1.45	0.34	mg/Kg wet	1.67		86.8	40-140			
Di-n-octylphthalate	1.57	0.34	mg/Kg wet	1.67		94.3	40-140			
Fluoranthene	1.40	0.17	mg/Kg wet	1.67		83.8	40-140			
Fluorene	1.45	0.17	mg/Kg wet	1.67		87.2	40-140			
Hexachlorobenzene	1.44	0.34	mg/Kg wet	1.67		86.3	40-140			
Hexachlorobutadiene	1.22	0.34	mg/Kg wet	1.67		73.1	40-140			
Hexachlorocyclopentadiene	1.15	0.34	mg/Kg wet	1.67		68.9	30-140			
Hexachloroethane	1.18	0.34	mg/Kg wet	1.67		70.6	40-140			
Indeno(1,2,3-cd)pyrene	1.39	0.17	mg/Kg wet	1.67		83.4	40-140			
Isophorone	1.42	0.34	mg/Kg wet	1.67		85.2	40-140			
2-Methylnaphthalene	1.49	0.17	mg/Kg wet	1.67		89.1	40-140			
2-Methylphenol	1.28	0.34	mg/Kg wet	1.67		76.9	30-130			
3/4-Methylphenol	1.36	0.34	mg/Kg wet	1.67		81.5	30-130			
Naphthalene	1.29	0.17	mg/Kg wet	1.67		77.2	40-140			
2-Nitroaniline	1.83	0.34	mg/Kg wet	1.67		110	40-140			
3-Nitroaniline	1.29	0.34	mg/Kg wet	1.67		77.4	40-140			†
4-Nitroaniline	1.51	0.34	mg/Kg wet	1.67		90.6	40-140			
Nitrobenzene	1.32	0.34	mg/Kg wet	1.67		79.0	40-140			
2-Nitrophenol	1.37	0.34	mg/Kg wet	1.67		82.1	30-130			
4-Nitrophenol	1.48	0.66	mg/Kg wet	1.67		88.5	10-130			
N-Nitrosodiphenylamine/Diphenylamine	1.45	0.34	mg/Kg wet	1.67		87.2	40-140			
N-Nitrosodi-n-propylamine	1.38	0.34	mg/Kg wet	1.67		82.9	40-140			
Pentachloronitrobenzene	1.62	0.34	mg/Kg wet	1.67		97.5	40-140			
Pentachlorophenol	1.34	0.34	mg/Kg wet	1.67		80.5	30-130			
Phenanthrene	1.42	0.17	mg/Kg wet	1.67		84.9	40-140			
Phenol	1.28	0.34	mg/Kg wet	1.67		76.8	20-130			
Pyrene	1.34	0.17	mg/Kg wet	1.67		80.4	40-140			
Pyridine	0.846	0.34	mg/Kg wet	1.67		50.8	10-140			†
1,2,4,5-Tetrachlorobenzene	1.27	0.34	mg/Kg wet	1.67		76.4	40-140			
1,2,4-Trichlorobenzene	1.25	0.34	mg/Kg wet	1.67		74.8	40-140			
2,4,5-Trichlorophenol	1.34	0.34	mg/Kg wet	1.67		80.2	30-130			
2,4,6-Trichlorophenol	1.35	0.34	mg/Kg wet	1.67		81.2	30-130			
Surrogate: 2-Fluorophenol	*5.47*		mg/Kg wet	6.67		82.1	30-130			
Surrogate: Phenol-d6	*5.72*		mg/Kg wet	6.67		85.8	30-130			
Surrogate: Nitrobenzene-d5	*2.73*		mg/Kg wet	3.33		82.0	30-130			
Surrogate: 2-Fluorobiphenyl	*3.24*		mg/Kg wet	3.33		97.2	30-130			
Surrogate: 2,4,6-Tribromophenol	*6.36*		mg/Kg wet	6.67		95.5	30-130			
Surrogate: p-Terphenyl-d14	*2.86*		mg/Kg wet	3.33		85.7	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250138 - SW-846 3546										
LCS Dup (B250138-BSD1)				Prepared & Analyzed: 01/16/20						
Acenaphthene	1.39	0.17	mg/Kg wet	1.67		83.5	40-140	4.38	30	
Acenaphthylene	1.39	0.17	mg/Kg wet	1.67		83.5	40-140	2.87	30	
Aniline	1.20	0.34	mg/Kg wet	1.67		71.9	40-140	6.91	50	† ‡
Anthracene	1.45	0.17	mg/Kg wet	1.67		86.9	40-140	1.55	30	
Benzo(a)anthracene	1.45	0.17	mg/Kg wet	1.67		87.0	40-140	1.39	30	
Benzo(a)pyrene	1.42	0.17	mg/Kg wet	1.67		85.3	40-140	1.35	30	
Benzo(b)fluoranthene	1.49	0.17	mg/Kg wet	1.67		89.1	40-140	2.06	30	
Benzo(g,h,i)perylene	1.33	0.17	mg/Kg wet	1.67		79.9	40-140	0.125	30	
Benzo(k)fluoranthene	1.48	0.17	mg/Kg wet	1.67		88.6	40-140	0.383	30	
Bis(2-chloroethoxy)methane	1.45	0.34	mg/Kg wet	1.67		87.0	40-140	4.18	30	
Bis(2-chloroethyl)ether	1.38	0.34	mg/Kg wet	1.67		82.5	40-140	1.10	30	
Bis(2-chloroisopropyl)ether	1.64	0.34	mg/Kg wet	1.67		98.5	40-140	1.72	30	
Bis(2-Ethylhexyl)phthalate	1.59	0.34	mg/Kg wet	1.67		95.6	40-140	2.33	30	
4-Bromophenylphenylether	1.46	0.34	mg/Kg wet	1.67		87.6	40-140	4.82	30	
Butylbenzylphthalate	1.45	0.34	mg/Kg wet	1.67		87.1	40-140	0.877	30	
Carbazole	1.39	0.17	mg/Kg wet	1.67		83.2	40-140	2.04	30	
4-Chloroaniline	1.13	0.66	mg/Kg wet	1.67		67.5	40-140	9.36	30	†
4-Chloro-3-methylphenol	1.44	0.66	mg/Kg wet	1.67		86.3	30-130	2.70	30	
2-Chloronaphthalene	1.27	0.34	mg/Kg wet	1.67		76.1	40-140	2.61	30	
2-Chlorophenol	1.31	0.34	mg/Kg wet	1.67		78.3	30-130	2.98	30	
4-Chlorophenylphenylether	1.42	0.34	mg/Kg wet	1.67		85.0	40-140	2.50	30	
Chrysene	1.46	0.17	mg/Kg wet	1.67		87.6	40-140	2.87	30	
Dibenz(a,h)anthracene	1.29	0.17	mg/Kg wet	1.67		77.1	40-140	0.104	30	
Dibenzofuran	1.43	0.34	mg/Kg wet	1.67		85.7	40-140	2.82	30	
Di-n-butylphthalate	1.48	0.34	mg/Kg wet	1.67		88.7	40-140	2.81	30	
3,3-Dichlorobenzidine	1.14	0.17	mg/Kg wet	1.67		68.7	40-140	6.21	30	† ‡
2,4-Dichlorophenol	1.44	0.34	mg/Kg wet	1.67		86.3	30-130	4.58	30	
Diethylphthalate	1.45	0.34	mg/Kg wet	1.67		87.2	40-140	1.48	30	
2,4-Dimethylphenol	1.43	0.34	mg/Kg wet	1.67		85.6	30-130	3.16	30	
Dimethylphthalate	1.41	0.34	mg/Kg wet	1.67		84.9	40-140	2.87	50	
4,6-Dinitro-2-methylphenol	1.27	0.34	mg/Kg wet	1.67		76.4	30-130	4.69	50	
2,4-Dinitrophenol	0.928	0.66	mg/Kg wet	1.67		55.7	30-130	7.84	50	
2,4-Dinitrotoluene	1.48	0.34	mg/Kg wet	1.67		88.6	40-140	1.43	30	
2,6-Dinitrotoluene	1.50	0.34	mg/Kg wet	1.67		90.2	40-140	3.89	30	
Di-n-octylphthalate	1.66	0.34	mg/Kg wet	1.67		99.5	40-140	5.43	30	
Fluoranthene	1.44	0.17	mg/Kg wet	1.67		86.3	40-140	2.94	30	
Fluorene	1.48	0.17	mg/Kg wet	1.67		88.7	40-140	1.77	30	
Hexachlorobenzene	1.46	0.34	mg/Kg wet	1.67		87.3	40-140	1.17	30	
Hexachlorobutadiene	1.29	0.34	mg/Kg wet	1.67		77.1	40-140	5.32	30	
Hexachlorocyclopentadiene	1.23	0.34	mg/Kg wet	1.67		73.6	30-140	6.63	50	
Hexachloroethane	1.16	0.34	mg/Kg wet	1.67		69.6	40-140	1.43	50	
Indeno(1,2,3-cd)pyrene	1.41	0.17	mg/Kg wet	1.67		84.5	40-140	1.33	50	
Isophorone	1.48	0.34	mg/Kg wet	1.67		88.9	40-140	4.25	30	
2-Methylnaphthalene	1.53	0.17	mg/Kg wet	1.67		91.8	40-140	2.98	30	
2-Methylphenol	1.31	0.34	mg/Kg wet	1.67		78.6	30-130	2.11	30	
3/4-Methylphenol	1.41	0.34	mg/Kg wet	1.67		84.4	30-130	3.55	30	
Naphthalene	1.33	0.17	mg/Kg wet	1.67		79.6	40-140	3.09	30	
2-Nitroaniline	1.89	0.34	mg/Kg wet	1.67		113	40-140	3.37	30	
3-Nitroaniline	1.32	0.34	mg/Kg wet	1.67		79.0	40-140	2.12	30	†
4-Nitroaniline	1.51	0.34	mg/Kg wet	1.67		90.4	40-140	0.221	30	
Nitrobenzene	1.35	0.34	mg/Kg wet	1.67		80.8	40-140	2.25	30	
2-Nitrophenol	1.40	0.34	mg/Kg wet	1.67		83.9	30-130	2.12	30	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250138 - SW-846 3546										
LCS Dup (B250138-BSD1)				Prepared & Analyzed: 01/16/20						
4-Nitrophenol	1.47	0.66	mg/Kg wet	1.67		88.5	10-130	0.0904	50	‡
N-Nitrosodiphenylamine/Diphenylamine	1.51	0.34	mg/Kg wet	1.67		90.4	40-140	3.54	30	
N-Nitrosodi-n-propylamine	1.43	0.34	mg/Kg wet	1.67		85.7	40-140	3.39	30	
Pentachloronitrobenzene	1.58	0.34	mg/Kg wet	1.67		95.0	40-140	2.54	30	
Pentachlorophenol	1.40	0.34	mg/Kg wet	1.67		84.2	30-130	4.40	50	
Phenanthrene	1.43	0.17	mg/Kg wet	1.67		86.0	40-140	1.31	30	
Phenol	1.31	0.34	mg/Kg wet	1.67		78.9	20-130	2.65	30	
Pyrene	1.38	0.17	mg/Kg wet	1.67		82.8	40-140	3.04	30	
Pyridine	0.821	0.34	mg/Kg wet	1.67		49.2	10-140	3.08	50	†
1,2,4,5-Tetrachlorobenzene	1.36	0.34	mg/Kg wet	1.67		81.7	40-140	6.65	30	
1,2,4-Trichlorobenzene	1.29	0.34	mg/Kg wet	1.67		77.6	40-140	3.75	30	
2,4,5-Trichlorophenol	1.40	0.34	mg/Kg wet	1.67		84.1	30-130	4.72	30	
2,4,6-Trichlorophenol	1.38	0.34	mg/Kg wet	1.67		82.8	30-130	1.98	50	
Surrogate: 2-Fluorophenol	*5.59*		mg/Kg wet	6.67		83.9	30-130			
Surrogate: Phenol-d6	*5.98*		mg/Kg wet	6.67		89.7	30-130			
Surrogate: Nitrobenzene-d5	*2.86*		mg/Kg wet	3.33		85.7	30-130			
Surrogate: 2-Fluorobiphenyl	*3.48*		mg/Kg wet	3.33		104	30-130			
Surrogate: 2,4,6-Tribromophenol	*6.66*		mg/Kg wet	6.67		99.9	30-130			
Surrogate: p-Terphenyl-d14	*2.96*		mg/Kg wet	3.33		88.8	30-130			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250076 - SW-846 3510C										
Blank (B250076-BLK1)				Prepared: 01/15/20 Analyzed: 01/16/20						
Aroclor-1016	ND	0.20	µg/L							
Aroclor-1016 [2C]	ND	0.20	µg/L							
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							
Aroclor-1260 [2C]	ND	0.20	µg/L							
Aroclor-1262	ND	0.20	µg/L							
Aroclor-1262 [2C]	ND	0.20	µg/L							
Aroclor-1268	ND	0.20	µg/L							
Aroclor-1268 [2C]	ND	0.20	µg/L							
Total PCB Aroclors	0.0		µg/L							
Surrogate: Decachlorobiphenyl	*1.72*		µg/L	2.00		86.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.74*		µg/L	2.00		87.0	30-150			
Surrogate: Tetrachloro-m-xylene	*1.52*		µg/L	2.00		76.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.56*		µg/L	2.00		78.1	30-150			
LCS (B250076-BS1)				Prepared: 01/15/20 Analyzed: 01/16/20						
Aroclor-1016	0.40	0.20	µg/L	0.500		80.2	40-140			
Aroclor-1016 [2C]	0.41	0.20	µg/L	0.500		82.9	40-140			
Aroclor-1260	0.38	0.20	µg/L	0.500		75.6	40-140			
Aroclor-1260 [2C]	0.40	0.20	µg/L	0.500		80.0	40-140			
Surrogate: Decachlorobiphenyl	*1.51*		µg/L	2.00		75.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.55*		µg/L	2.00		77.4	30-150			
Surrogate: Tetrachloro-m-xylene	*1.44*		µg/L	2.00		72.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.48*		µg/L	2.00		74.1	30-150			
LCS Dup (B250076-BSD1)				Prepared: 01/15/20 Analyzed: 01/16/20						
Aroclor-1016	0.39	0.20	µg/L	0.500		77.7	40-140	3.25	20	
Aroclor-1016 [2C]	0.39	0.20	µg/L	0.500		78.4	40-140	5.61	20	
Aroclor-1260	0.37	0.20	µg/L	0.500		73.7	40-140	2.60	20	
Aroclor-1260 [2C]	0.39	0.20	µg/L	0.500		77.5	40-140	3.18	20	
Surrogate: Decachlorobiphenyl	*1.49*		µg/L	2.00		74.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.53*		µg/L	2.00		76.4	30-150			
Surrogate: Tetrachloro-m-xylene	*1.40*		µg/L	2.00		70.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.44*		µg/L	2.00		72.1	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250127 - SW-846 3540C										
Blank (B250127-BLK1)				Prepared: 01/15/20 Analyzed: 01/16/20						
Aroclor-1016	ND	0.20	µg/Wipe							
Aroclor-1016 [2C]	ND	0.20	µg/Wipe							
Aroclor-1221	ND	0.20	µg/Wipe							
Aroclor-1221 [2C]	ND	0.20	µg/Wipe							
Aroclor-1232	ND	0.20	µg/Wipe							
Aroclor-1232 [2C]	ND	0.20	µg/Wipe							
Aroclor-1242	ND	0.20	µg/Wipe							
Aroclor-1242 [2C]	ND	0.20	µg/Wipe							
Aroclor-1248	ND	0.20	µg/Wipe							
Aroclor-1248 [2C]	ND	0.20	µg/Wipe							
Aroclor-1254	ND	0.20	µg/Wipe							
Aroclor-1254 [2C]	ND	0.20	µg/Wipe							
Aroclor-1260	ND	0.20	µg/Wipe							
Aroclor-1260 [2C]	ND	0.20	µg/Wipe							
Aroclor-1262	ND	0.20	µg/Wipe							
Aroclor-1262 [2C]	ND	0.20	µg/Wipe							
Aroclor-1268	ND	0.20	µg/Wipe							
Aroclor-1268 [2C]	ND	0.20	µg/Wipe							
Total PCB Aroclors	0.0		µg/Wipe							
Surrogate: Decachlorobiphenyl	*1.85*		µg/Wipe	2.00		92.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.85*		µg/Wipe	2.00		92.4	30-150			
Surrogate: Tetrachloro-m-xylene	*1.70*		µg/Wipe	2.00		85.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.68*		µg/Wipe	2.00		83.8	30-150			
LCS (B250127-BS1)				Prepared: 01/15/20 Analyzed: 01/16/20						
Aroclor-1016	0.47	0.20	µg/Wipe	0.500		94.2	40-140			
Aroclor-1016 [2C]	0.45	0.20	µg/Wipe	0.500		89.5	40-140			
Aroclor-1254	ND	0.20	µg/Wipe				40-140			
Aroclor-1254 [2C]	ND	0.20	µg/Wipe				40-140			
Aroclor-1260	0.45	0.20	µg/Wipe	0.500		90.4	40-140			
Aroclor-1260 [2C]	0.43	0.20	µg/Wipe	0.500		85.8	40-140			
Surrogate: Decachlorobiphenyl	*1.80*		µg/Wipe	2.00		90.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.80*		µg/Wipe	2.00		90.2	30-150			
Surrogate: Tetrachloro-m-xylene	*1.67*		µg/Wipe	2.00		83.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.66*		µg/Wipe	2.00		83.2	30-150			
LCS Dup (B250127-BSD1)				Prepared: 01/15/20 Analyzed: 01/16/20						
Aroclor-1016	0.42	0.20	µg/Wipe	0.500		84.6	40-140	10.8	30	
Aroclor-1016 [2C]	0.40	0.20	µg/Wipe	0.500		79.5	40-140	11.8	30	
Aroclor-1254	ND	0.20	µg/Wipe				40-140	NC	30	
Aroclor-1254 [2C]	ND	0.20	µg/Wipe				40-140	NC	30	
Aroclor-1260	0.39	0.20	µg/Wipe	0.500		78.5	40-140	14.1	30	
Aroclor-1260 [2C]	0.39	0.20	µg/Wipe	0.500		78.4	40-140	9.12	30	
Surrogate: Decachlorobiphenyl	*1.56*		µg/Wipe	2.00		78.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.60*		µg/Wipe	2.00		80.0	30-150			
Surrogate: Tetrachloro-m-xylene	*1.44*		µg/Wipe	2.00		72.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.45*		µg/Wipe	2.00		72.5	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250131 - SW-846 3540C										
Blank (B250131-BLK1)				Prepared: 01/15/20 Analyzed: 01/16/20						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Total PCB Aroclors	0.0		mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.185*		mg/Kg wet	0.200		92.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.192*		mg/Kg wet	0.200		95.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.183*		mg/Kg wet	0.200		91.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.185*		mg/Kg wet	0.200		92.6	30-150			
LCS (B250131-BS1)				Prepared: 01/15/20 Analyzed: 01/16/20						
Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		88.1	40-140			
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		88.5	40-140			
Aroclor-1254	ND	0.020	mg/Kg wet				40-140			
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet				40-140			
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		84.5	40-140			
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		85.2	40-140			
Surrogate: Decachlorobiphenyl	*0.185*		mg/Kg wet	0.200		92.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.191*		mg/Kg wet	0.200		95.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.183*		mg/Kg wet	0.200		91.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.186*		mg/Kg wet	0.200		92.9	30-150			
LCS Dup (B250131-BSD1)				Prepared: 01/15/20 Analyzed: 01/16/20						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		87.5	40-140	0.742	30	
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		87.8	40-140	0.794	30	
Aroclor-1254	ND	0.020	mg/Kg wet				40-140	NC	30	
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet				40-140	NC	30	
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		84.7	40-140	0.346	30	
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		85.6	40-140	0.429	30	
Surrogate: Decachlorobiphenyl	*0.183*		mg/Kg wet	0.200		91.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.189*		mg/Kg wet	0.200		94.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.180*		mg/Kg wet	0.200		90.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.183*		mg/Kg wet	0.200		91.5	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B250048 - SW-846 3510C											
Blank (B250048-BLK1)				Prepared: 01/15/20 Analyzed: 01/16/20							
CT ETPH	ND	0.15	mg/L								
Surrogate: 2-Fluorobiphenyl	*0.0740*		mg/L	0.100		74.0		50-150			
LCS (B250048-BS1)				Prepared: 01/15/20 Analyzed: 01/16/20							
CT ETPH	0.641	0.15	mg/L	1.00		64.1		60-120			
Surrogate: 2-Fluorobiphenyl	*0.0668*		mg/L	0.100		66.8		50-150			
LCS Dup (B250048-BSD1)				Prepared: 01/15/20 Analyzed: 01/16/20							
CT ETPH	0.563	0.15	mg/L	1.00		**56.3**	*	60-120	13.0	30	L-07
Surrogate: 2-Fluorobiphenyl	*0.0599*		mg/L	0.100		59.9		50-150			
Batch B250145 - SW-846 3546											
Blank (B250145-BLK1)				Prepared & Analyzed: 01/16/20							
CT ETPH	ND	10	mg/Kg wet								
Surrogate: 2-Fluorobiphenyl	*2.57*		mg/Kg wet	3.33		77.0		50-150			
LCS (B250145-BS1)				Prepared & Analyzed: 01/16/20							
CT ETPH	27.2	10	mg/Kg wet	33.3		81.5		60-120			
Surrogate: 2-Fluorobiphenyl	*2.54*		mg/Kg wet	3.33		76.2		50-150			
LCS Dup (B250145-BSD1)				Prepared & Analyzed: 01/16/20							
CT ETPH	27.3	10	mg/Kg wet	33.3		82.0		60-120	0.628	30	
Surrogate: 2-Fluorobiphenyl	*2.58*		mg/Kg wet	3.33		77.4		50-150			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250126 - SW-846 3050B										
Blank (B250126-BLK1)				Prepared: 01/15/20 Analyzed: 01/16/20						
Arsenic	ND	1.7	mg/Kg							
Barium	ND	1.7	mg/Kg							
Cadmium	ND	0.17	mg/Kg							
Chromium	ND	0.33	mg/Kg							
Lead	ND	0.50	mg/Kg							
Selenium	ND	3.3	mg/Kg							
Silver	ND	0.33	mg/Kg							
LCS (B250126-BS1)				Prepared: 01/15/20 Analyzed: 01/16/20						
Arsenic	130	4.9	mg/Kg	143		90.7	83.2-117.5			
Barium	387	4.9	mg/Kg	415		93.4	82.7-117.6			
Cadmium	53.0	0.49	mg/Kg	56.2		94.4	82.9-117.3			
Chromium	85.1	0.99	mg/Kg	101		84.3	82.4-116.8			
Lead	111	1.5	mg/Kg	125		88.6	82.4-116.8			
Selenium	66.0	9.9	mg/Kg	77.9		84.7	79.3-120.7			
Silver	30.7	0.99	mg/Kg	34.3		89.5	81-119.2			
LCS Dup (B250126-BSD1)				Prepared: 01/15/20 Analyzed: 01/16/20						
Arsenic	132	5.0	mg/Kg	143		92.2	83.2-117.5	1.67	30	
Barium	402	5.0	mg/Kg	415		96.9	82.7-117.6	3.71	20	
Cadmium	55.4	0.50	mg/Kg	56.2		98.6	82.9-117.3	4.40	20	
Chromium	86.5	0.99	mg/Kg	101		85.6	82.4-116.8	1.55	30	
Lead	114	1.5	mg/Kg	125		91.4	82.4-116.8	3.08	30	
Selenium	69.0	9.9	mg/Kg	77.9		88.5	79.3-120.7	4.47	30	
Silver	30.5	0.99	mg/Kg	34.3		89.0	81-119.2	0.509	30	
Reference (B250126-SRM1)				Prepared: 01/15/20 Analyzed: 01/16/20						
Lead	0.481	0.50	mg/Kg	0.502		95.8	80-120			
Batch B250129 - SW-846 3005A										
Blank (B250129-BLK1)				Prepared & Analyzed: 01/16/20						
Arsenic	ND	0.80	µg/L							
Barium	ND	10	µg/L							
Cadmium	ND	0.20	µg/L							
Chromium	ND	1.0	µg/L							
Lead	ND	0.50	µg/L							
Selenium	ND	5.0	µg/L							
Silver	ND	0.20	µg/L							
LCS (B250129-BS1)				Prepared & Analyzed: 01/16/20						
Arsenic	461	8.0	µg/L	500		92.1	80-120			
Barium	479	100	µg/L	500		95.7	80-120			
Cadmium	443	2.0	µg/L	500		88.5	80-120			
Chromium	488	10	µg/L	500		97.6	80-120			
Lead	470	5.0	µg/L	500		93.9	80-120			
Selenium	455	50	µg/L	500		91.1	80-120			
Silver	475	2.0	µg/L	500		95.1	80-120			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250129 - SW-846 3005A										
LCS Dup (B250129-BSD1)				Prepared & Analyzed: 01/16/20						
Arsenic	454	8.0	µg/L	500		90.9	80-120	1.35	20	
Barium	476	100	µg/L	500		95.3	80-120	0.435	20	
Cadmium	438	2.0	µg/L	500		87.7	80-120	0.945	20	
Chromium	489	10	µg/L	500		97.8	80-120	0.156	20	
Lead	462	5.0	µg/L	500		92.5	80-120	1.54	20	
Selenium	454	50	µg/L	500		90.8	80-120	0.284	20	
Silver	474	2.0	µg/L	500		94.9	80-120	0.210	20	
Batch B250163 - SW-846 7471										
Blank (B250163-BLK1)				Prepared & Analyzed: 01/16/20						
Mercury	ND	0.025	mg/Kg wet							
LCS (B250163-BS1)				Prepared & Analyzed: 01/16/20						
Mercury	6.59	0.38	mg/Kg wet	7.61		86.6	72.7-127.3			
LCS Dup (B250163-BSD1)				Prepared & Analyzed: 01/16/20						
Mercury	6.85	0.38	mg/Kg wet	7.61		90.1	72.7-127.3	3.90	20	
Batch B250164 - SW-846 7470A Prep										
Blank (B250164-BLK1)				Prepared & Analyzed: 01/16/20						
Mercury	ND	0.00010	mg/L							
LCS (B250164-BS1)				Prepared & Analyzed: 01/16/20						
Mercury	0.00413	0.00010	mg/L	0.00400		103	80-120			
LCS Dup (B250164-BSD1)				Prepared & Analyzed: 01/16/20						
Mercury	0.00417	0.00010	mg/L	0.00400		104	80-120	0.959	20	

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IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

TRC-AOC-1-SOLID-01

Lab Sample ID: 20A0650-03

Date(s) Analyzed: 01/16/2020 01/16/2020

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Aroclor-1248	1	0.000	-0.030	0.030	0.44	
	2	0.000	-0.030	0.030	0.42	4.7
Aroclor-1254	1	0.000	-0.030	0.030	0.47	
	2	0.000	-0.030	0.030	0.51	8.2
Aroclor-1260	1	0.000	-0.030	0.030	0.45	
	2	0.000	-0.030	0.030	0.44	2.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B250076-BS1

Date(s) Analyzed: 01/16/2020 01/16/2020

Instrument ID (1): ECD1

Instrument ID (2): ECD1

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.40	
	2	0.000	0.000	0.000	0.41	2.5
Aroclor-1260	1	0.000	0.000	0.000	0.38	
	2	0.000	0.000	0.000	0.40	5.1

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IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B250076-BSD1

Date(s) Analyzed: 01/16/2020 01/16/2020

Instrument ID (1): ECD1

Instrument ID (2): ECD1

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.39	
	2	0.000	0.000	0.000	0.39	0.0
Aroclor-1260	1	0.000	0.000	0.000	0.37	
	2	0.000	0.000	0.000	0.39	5.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B250127-BS1 Date(s) Analyzed: 01/16/2020 01/16/2020

Instrument ID (1): ECD1 Instrument ID (2): ECD1

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.47	
	2	0.000	0.000	0.000	0.45	4.4
Aroclor-1260	1	0.000	0.000	0.000	0.45	
	2	0.000	0.000	0.000	0.43	4.6

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IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B250127-BSD1

Date(s) Analyzed: 01/16/2020 01/16/2020

Instrument ID (1): ECD1

Instrument ID (2): ECD1

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.42	
	2	0.000	0.000	0.000	0.40	4.9
Aroclor-1260	1	0.000	0.000	0.000	0.39	
	2	0.000	0.000	0.000	0.39	0.0

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IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B250131-BS1

Date(s) Analyzed: 01/16/2020 01/16/2020

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.18	
	2	0.000	-0.030	0.030	0.18	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.17	
	2	0.000	-0.030	0.030	0.17	0.0

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IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B250131-BSD1 Date(s) Analyzed: 01/16/2020 01/16/2020

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.17	
	2	0.000	-0.030	0.030	0.18	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.17	
	2	0.000	-0.030	0.030	0.17	0.0

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

E	Reported result is estimated. Value reported over verified calibration range.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
RL-11	Elevated reporting limit due to high concentration of target compounds.
RL-12	Elevated reporting limit due to matrix interference.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-06	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
CTDEP ETPH in Water	
CT ETPH	CT
SW-846 6010D in Product/Solid	
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
SW-846 6020B in Water	
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,RI,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
SW-846 7470A in Water	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA,PA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1221	CT,NH,NY,ME,NC,VA,PA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1232	CT,NH,NY,ME,NC,VA,PA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1242	CT,NH,NY,ME,NC,VA,PA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1248	CT,NH,NY,ME,NC,VA,PA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1254	CT,NH,NY,ME,NC,VA,PA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1260	CT,NH,NY,ME,NC,VA,PA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1262	NY,NC,VA,PA
Aroclor-1262 [2C]	NY,NC,VA,PA
Aroclor-1268	NY,NC,VA,PA
Aroclor-1268 [2C]	NY,NC,VA,PA
SW-846 8082A in Water	
Aroclor-1016	CT,NH,NY,NC,ME,VA,PA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Water	
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1221	CT,NH,NY,NC,ME,VA,PA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1232	CT,NH,NY,NC,ME,VA,PA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1242	CT,NH,NY,NC,ME,VA,PA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1248	CT,NH,NY,NC,ME,VA,PA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1254	CT,NH,NY,NC,ME,VA,PA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1260	CT,NH,NY,NC,ME,VA,PA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1262	NH,NY,NC,ME,VA,PA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA,PA
Aroclor-1268	NH,NY,NC,ME,VA,PA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA,PA
SW-846 8260C-D in Soil	
Acetone	CT,NH,NY,ME
Acrylonitrile	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
1,2-Dibromo-3-chloropropane (DBCP)	NY
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C-D in Soil	
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NH,NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	CT,NH,NY,ME
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl tert-Butyl Ether (MTBE)	NY
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
Naphthalene	NH,NY,ME
n-Propylbenzene	NH,NY
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
1,2,4-Trichlorobenzene	NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,4-Trimethylbenzene	CT,NH,NY,ME
1,3,5-Trimethylbenzene	CT,NH,NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME
o-Xylene	CT,NH,NY,ME
Xylenes (total)	NY
SW-846 8260C-D in Water	
Acetone	CT,NH,NY,ME
Acrylonitrile	CT,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NY
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	NY,ME

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C-D in Water	
sec-Butylbenzene	NY,ME
tert-Butylbenzene	NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	NY,ME
4-Chlorotoluene	NY,ME
1,2-Dibromo-3-chloropropane (DBCP)	NY
1,2-Dibromoethane (EDB)	NY
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
trans-1,4-Dichloro-2-butene	NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NH,NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	CT,NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	NY,ME
p-Isopropyltoluene (p-Cymene)	CT,NH,NY,ME
Methyl tert-Butyl Ether (MTBE)	CT,NH,NY,ME
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,ME
Naphthalene	NH,NY,ME
n-Propylbenzene	CT,NH,NY,ME
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
1,2,3-Trichlorobenzene	NH,NY,ME
1,2,4-Trichlorobenzene	CT,NH,NY,ME

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C-D in Water	
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NY
1,2,4-Trimethylbenzene	NY,ME
1,3,5-Trimethylbenzene	NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	NH,NY,ME
o-Xylene	NH,NY,ME
Xylenes (total)	CT,NY
SW-846 8270D-E in Soil	
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH
Aniline	NY,NH
Anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
4-Chloro-3-methylphenol	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
4-Chlorophenylphenylether	CT,NY,NH
Chrysene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	NY,NH
1,3-Dichlorobenzene	NY,NH
1,4-Dichlorobenzene	NY,NH
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
4,6-Dinitro-2-methylphenol	CT,NY,NH

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D-E in Soil	
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
Fluoranthene	CT,NY,NH
Fluorene	NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachlorocyclopentadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH
2-Nitroaniline	CT,NY,NH
3-Nitroaniline	CT,NY,NH
4-Nitroaniline	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
N-Nitrosodi-n-propylamine	CT,NY,NH
Pentachloronitrobenzene	NY
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenol	CT,NY,NH
Pyrene	CT,NY,NH
Pyridine	CT,NY,NH
1,2,4,5-Tetrachlorobenzene	NY
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH
SW-846 8270D-E in Water	
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH
Aniline	CT,NY
Anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D-E in Water	
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
4-Chloro-3-methylphenol	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
4-Chlorophenylphenylether	CT,NY,NH
Chrysene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	NY
1,3-Dichlorobenzene	NY
1,4-Dichlorobenzene	NY
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
4,6-Dinitro-2-methylphenol	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
Fluoranthene	CT,NY,NH
Fluorene	NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachlorocyclopentadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH
2-Nitroaniline	CT,NY,NH
3-Nitroaniline	CT,NY,NH
4-Nitroaniline	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
N-Nitrosodi-n-propylamine	CT,NY,NH
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenol	CT,NY,NH

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D-E in Water	
Pyrene	CT,NY,NH
Pyridine	CT,NY,NH
1,2,4,5-Tetrachlorobenzene	NY
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2022
MA	Massachusetts DEP	M-MA100	06/30/2020
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2021
NY	New York State Department of Health	10899 NELAP	04/1/2020
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2020
RI	Rhode Island Department of Health	LAO00112	12/30/2020
NC	North Carolina Div. of Water Quality	652	12/31/2020
NJ	New Jersey DEP	MA007 NELAP	06/30/2020
FL	Florida Department of Health	E871027 NELAP	06/30/2020
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2020
ME	State of Maine	2011028	06/9/2021
VA	Commonwealth of Virginia	460217	12/14/2020
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2020
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2020
NC-DW	North Carolina Department of Health	25703	07/31/2020
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2020

con-test® ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com Doc # 381 Rev 1_03242017

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 1

KKm 20A0650

Company Name: TRC
Address: 21 Griffin Rd N. Windsor, CT
Phone: 860-298-9692
Project Name: English Station Parcel A
Project Location: 510A Grand Ave, New Haven, CT
Project Number: 263991, 000028, 000001
Project Manager: Carl Stopper
Con-Test Quote Name/Number: B-20180911 English Station
Invoice Recipient: Carl Stopper
Sampled By: Matt Blumstein

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

Rush-Approval Required
1-Day ☒ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☒ EXCEL ☒
Other:
CLP Like Data Pkg Required: ☐
Email To: CStopper@trccompanies.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCBs	ETPH	SVOCs	VOCs	RCRA 8 Metals
1	TRC-AOC-1-WP-01	1/15/20	1000			WP	U	X				
2	TRC-AOC-1-SW-01	1/15/20	1005			SW	U	X	X	X	X	X
3	TRC-AOC-1-SOLID-01	1/15/20	1010			SOL	U	X	X	X	X	X

# of Containers
[2] Preservation Code
[3] Container Code

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define) Wipe

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:
Please hold any additional volume after analysis

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Signature	Date/Time
Relinquished by: (signature) [signature]	1/15/20
Received by: (signature) [signature] 1/15/20 2:00	
Relinquished by: (signature) [signature] 1/15/20 3:03	
Received by: (signature) [signature]	1/15/20 3:03
Relinquished by: (signature) [signature]	1/15/20 524
Received by: (signature) [signature] 5.2 1724	1-15-2020

Detection Limit Requirements
MA:
CT: CT RSRs
PCB RL < 1ppm
Other:

Special Requirements
☐ MA MCP Required
MCP Certification Form Required
☒ CT RCP Required
RCP Certification Form Required
☐ MA State DW Required
PWSID #

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NELAC and AIHA-LAP, LLC Accredited

Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ AIHA-LAP, LLC

PCB ONLY
☒ Soxhlet
☐ Non Soxhlet

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples__________

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Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client TRC

Received By [illegible] Date 1-15-2020 Time 1724

How were the samples received? In Cooler T No Cooler ___ On Ice T No Ice ___
Direct from Sampling ___ Ambient ___ Melted Ice ___

Were samples within Temperature? 2-6°C T By Gun # 5 Actual Temp - 5.2
By Blank # ___ Actual Temp - ___

Was Custody Seal Intact? NA Were Samples Tampered with? NA
Was COC Relinquished ? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T
Are Sample labels filled out and legible? T
Are there Lab to Filters? F Who was notified? ___
Are there Rushes? T Who was notified? Ashley, Jessica
Are there Short Holds? F Who was notified? ~~[illegible]~~
Is there enough Volume? T
Is there Headspace where applicable? F MS/MSD? F
Proper Media/Containers Used? T Is splitting samples required? F
Were trip blanks received? F On COC? F
Do all samples have the proper pH? Acid T Base ___

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	6	1 Liter Plastic		16 oz Amb.	
HCL-	3	500 mL Amb.		500 mL Plastic		8oz Amb/Clear	3
Meoh-	1	250 mL Amb.		250 mL Plastic	1	4oz Amb/Clear	1
Bisulfate-		Flashpoint		Col./Bacteria		2oz Amb/Clear	
DI-	2	Other Glass		Other Plastic		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen: DE @ 1724 1-15-2020	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

C:\MSDCHEM\4\DATA\D011620\D0116006.D

CT ETPH DISCRIMINATION CHECK

Data File Name	D0116006.D
Data File Path	C:\MSDCHEM\4\DATA\D011620\
Operator	RMW
Date Acquired	1/16/1920 8:07
Acq. Method File	EPH11D.M
Sample Name	ETPH 1500
Instrument Name	GCFID4

Name	Ret Time	Target Response	Average Response	*%D+/-20
C-9	1.57	8239265	9159826	10
C-10	2.24	8537991	9159826	7
C-12	3.19	8851265	9159826	3
C-14	3.90	9141765	9159826	0
C-16	4.52	9314934	9159826	-2
C-18	5.07	9468339	9159826	-3
C-20	5.67	9585735	9159826	-5
C-22	6.42	9652331	9159826	-5
C-24	7.26	9663462	9159826	-5
C-26	8.07	9600778	9159826	-5
C-28	8.81	9510794	9159826	-4
C-30	9.49	9429065	9159826	-3
C-32	10.13	9043799	9159826	1
C-34	10.72	8848819	9159826	3
C-36	11.30	8509044	9159826	7

Samples

20A0465-11RE1@10X
20A0650-03@100X

*One compound allowed %D</=50%

C:\MSDCHEM\2\DATA\B011620\B0116006.D

CT ETPH Discrimination Check

Data File Name	B0116006.D
Data File Path	C:\MSDCHEM\2\DATA\B011620\
Operator	RMW
Date Acquired	1/16/1920 8:03
Acq. Method File	EPH04.M
Sample Name	ETPH 1500
Instrument Name	GCFID2

Name	Ret Time	Target Response	Average Response	*%D+/-20
n-Nonane	1.27	8154116	8821317	8
n-Decane	2.03	8359715	8821317	5
n-Dodecane	3.02	8528954	8821317	3
n-Tetradecane	3.74	8744287	8821317	1
n-Hexadecane	4.35	8856927	8821317	0
n-Octadecane	4.90	9014697	8821317	-2
n-Eicosane	5.44	9114583	8821317	-3
n-Docosane	6.12	9208568	8821317	-4
n-Tetracosane	6.91	9308203	8821317	-6
n-Hexacosane	7.72	9340133	8821317	-6
n-Octacosane	8.47	9306795	8821317	-6
n-Triacontane	9.15	9210900	8821317	-4
n-Dotriacontane	9.79	8717995	8821317	1
n-Tetratriacontane	10.38	8438578	8821317	4
n-Hexatriacontane	10.94	8015309	8821317	9

*One compound allowed %D</=50

Samples

20A0350-02
20A0350-03
20A0508-01
20A0650-02

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: TRC Environmental Corporation - CT

Project Location: 510A Grand Ave, New Haven, CT

Project Number: 20A0650

Laboratory Sample ID(s):
20A0650-01 thru 20A0650-03

Sample Date(s):
01/15/2020

List RCP Methods Used:

CTDEP ETPH, SW-846 6010D, SW-846 6020B, SW-846 7470A, SW-846 7471B, SW-846 8082A, SW-846 8260C-D, SW-846 8270D-E

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☐ Yes ☑ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☐ Yes ☑ No
5B	Were these reporting limits met?	☐ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☐ Yes ☑ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

Tod E. Kopyscinski

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.

Authorized Signature: Tod Kopyscinski

Position: **Laboratory Director**

Printed Name: **Tod E. Kopyscinski**

Date: **01/20/20**

Name of Laboratory: **Con-Test Analytical Laboratory**

This certification form is to be used for RCP methods only.

Situation #4 Oily Sump Pit Solid Material

Solid Sample

Con-Test Report #20A0963

con-test®
ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

January 27, 2020

Carl Stopper
TRC Environmental Corporation - CT
21 Griffin Road North
Windsor, CT 06095

Project Location: 510A Grand Ave., New Haven, CT
Client Job Number:
Project Number: 263951.000028.000001
Laboratory Work Order Number: 20A0963

Enclosed are results of analyses for samples received by the laboratory on January 22, 2020. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kerry K. McGee
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

TRC Environmental Corporation - CT
21 Griffin Road North
Windsor, CT 06095
ATTN: Carl Stopper

REPORT DATE: 1/27/2020

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 263951.000028.000001

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 20A0963

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510A Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
TRC-AOC-1-SOLID-02	20A0963-01	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 1030	
				SW-846 1311	
				SW-846 6010D	
				SW-846 7470A	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 8260C-D	
				SW-846 8270D-E	
				SW-846 9014	
				SW-846 9030A	
				SW-846 9045C	
				SW-846 9095B	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 6010, only a select list of metals was requested and reported.

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CTDEP ETPH

Qualifications:

S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

2-Fluorobiphenyl
20A0963-01[TRC-AOC-1-SOLID-02]

SW-846 8260C-D

Qualifications:

V-16

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:

1,3-Dichlorobenzene
20A0963-01RE1[TRC-AOC-1-SOLID-02]

V-17

Internal standard area <50% of associated calibration standard internal standard area. Reanalysis yielded similar internal standard non-conformance.

Analyte & Samples(s) Qualified:

1,2,3-Trichlorobenzene
20A0963-01[TRC-AOC-1-SOLID-02], 20A0963-01RE1[TRC-AOC-1-SOLID-02]

1,2,4-Trichlorobenzene
20A0963-01[TRC-AOC-1-SOLID-02], 20A0963-01RE1[TRC-AOC-1-SOLID-02]

1,2,4-Trimethylbenzene
20A0963-01[TRC-AOC-1-SOLID-02], 20A0963-01RE1[TRC-AOC-1-SOLID-02]

1,2-Dibromo-3-chloropropane (DB
20A0963-01[TRC-AOC-1-SOLID-02], 20A0963-01RE1[TRC-AOC-1-SOLID-02]

1,2-Dichlorobenzene
20A0963-01[TRC-AOC-1-SOLID-02], 20A0963-01RE1[TRC-AOC-1-SOLID-02]

1,3-Dichlorobenzene
20A0963-01[TRC-AOC-1-SOLID-02]

1,4-Dichlorobenzene
20A0963-01[TRC-AOC-1-SOLID-02], 20A0963-01RE1[TRC-AOC-1-SOLID-02]

1,4-Dichlorobenzene-d4
20A0963-01[TRC-AOC-1-SOLID-02], 20A0963-01RE1[TRC-AOC-1-SOLID-02]

Hexachlorobutadiene
20A0963-01[TRC-AOC-1-SOLID-02], 20A0963-01RE1[TRC-AOC-1-SOLID-02]

Naphthalene
20A0963-01[TRC-AOC-1-SOLID-02], 20A0963-01RE1[TRC-AOC-1-SOLID-02]

n-Butylbenzene
20A0963-01[TRC-AOC-1-SOLID-02], 20A0963-01RE1[TRC-AOC-1-SOLID-02]

p-Isopropyltoluene (p-Cymene)
20A0963-01[TRC-AOC-1-SOLID-02], 20A0963-01RE1[TRC-AOC-1-SOLID-02]

sec-Butylbenzene
20A0963-01[TRC-AOC-1-SOLID-02], 20A0963-01RE1[TRC-AOC-1-SOLID-02]

tert-Butylbenzene
20A0963-01[TRC-AOC-1-SOLID-02], 20A0963-01RE1[TRC-AOC-1-SOLID-02]

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:

Bromomethane
20A0963-01[TRC-AOC-1-SOLID-02], 20A0963-01RE1[TRC-AOC-1-SOLID-02], B250629-BLK1, B250629-BS1, S044893-CCV1

SW-846 8270D-E

Qualifications:

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

R-05

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:

4-Chloroaniline
20A0963-01[TRC-AOC-1-SOLID-02], B250530-BLK1, B250530-BS1, B250530-BSD1

RL-12

Elevated reporting limit due to matrix interference.

Analyte & Samples(s) Qualified:

20A0963-01[TRC-AOC-1-SOLID-02]

S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

2,4,6-Tribromophenol
20A0963-01[TRC-AOC-1-SOLID-02]

2-Fluorobiphenyl
20A0963-01[TRC-AOC-1-SOLID-02]

2-Fluorophenol
20A0963-01[TRC-AOC-1-SOLID-02]

Nitrobenzene-d5
20A0963-01[TRC-AOC-1-SOLID-02]

Phenol-d6
20A0963-01[TRC-AOC-1-SOLID-02]

p-Terphenyl-d14
20A0963-01[TRC-AOC-1-SOLID-02]

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol
S044895-CCV1

Hexachlorocyclopentadiene
20A0963-01[TRC-AOC-1-SOLID-02], B250530-BLK1, B250530-BS1, B250530-BSD1, S044891-CCV1, S044895-CCV1

Pentachlorophenol
S044895-CCV1

V-06

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.

Analyte & Samples(s) Qualified:

Di-n-octylphthalate
S044895-CCV1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa Worthington

Lisa A. Worthington
Technical Representative

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510A Grand Ave., New Haven, CT   Sample Description: Work Order: 20A0963

Date Received: 1/22/2020

Field Sample #: TRC-AOC-1-SOLID-02   Sampled: 1/22/2020 12:30

Sample ID: 20A0963-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	0.67	0.26	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
Acetone	0.24	0.18	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
Acrylonitrile	ND	0.015	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
Acrylonitrile	ND	0.011	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
Benzene	ND	0.0051	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
Benzene	ND	0.0035	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
Bromobenzene	ND	0.0051	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
Bromobenzene	ND	0.0035	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
Bromodichloromethane	ND	0.0051	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
Bromodichloromethane	ND	0.0035	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
Bromoform	ND	0.0051	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
Bromoform	ND	0.0035	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
Bromomethane	ND	0.026	mg/Kg dry	1	V-34	SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
Bromomethane	ND	0.018	mg/Kg dry	1	V-34	SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
2-Butanone (MEK)	ND	0.10	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
2-Butanone (MEK)	ND	0.071	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
n-Butylbenzene	ND	0.0051	mg/Kg dry	1	V-17	SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
n-Butylbenzene	ND	0.0035	mg/Kg dry	1	V-17	SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
sec-Butylbenzene	ND	0.0051	mg/Kg dry	1	V-17	SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
sec-Butylbenzene	ND	0.0035	mg/Kg dry	1	V-17	SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
tert-Butylbenzene	ND	0.0051	mg/Kg dry	1	V-17	SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
tert-Butylbenzene	ND	0.0035	mg/Kg dry	1	V-17	SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
Carbon Disulfide	ND	0.015	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
Carbon Disulfide	ND	0.011	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
Carbon Tetrachloride	ND	0.0051	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
Carbon Tetrachloride	ND	0.0035	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
Chlorobenzene	ND	0.0051	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
Chlorobenzene	ND	0.0035	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
Chlorodibromomethane	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
Chlorodibromomethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
Chloroethane	ND	0.051	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
Chloroethane	ND	0.035	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
Chloroform	ND	0.010	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
Chloroform	ND	0.0071	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
Chloromethane	ND	0.026	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
Chloromethane	ND	0.018	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
2-Chlorotoluene	ND	0.0051	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
2-Chlorotoluene	ND	0.0035	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
4-Chlorotoluene	ND	0.0051	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
4-Chlorotoluene	ND	0.0035	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0051	mg/Kg dry	1	V-17	SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0035	mg/Kg dry	1	V-17	SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
1,2-Dibromoethane (EDB)	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
1,2-Dibromoethane (EDB)	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510A Grand Ave., New Haven, CT Sample Description: Work Order: 20A0963

Date Received: 1/22/2020

Field Sample #: TRC-AOC-1-SOLID-02 Sampled: 1/22/2020 12:30

Sample ID: 20A0963-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Dibromomethane	ND	0.0051	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
Dibromomethane	ND	0.0035	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
1,2-Dichlorobenzene	ND	0.0051	mg/Kg dry	1	V-17	SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
1,2-Dichlorobenzene	ND	0.0035	mg/Kg dry	1	V-17	SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
1,3-Dichlorobenzene	ND	0.0051	mg/Kg dry	1	V-17	SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
1,3-Dichlorobenzene	ND	0.0035	mg/Kg dry	1	V-16	SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
1,4-Dichlorobenzene	ND	0.0051	mg/Kg dry	1	V-17	SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
1,4-Dichlorobenzene	ND	0.0035	mg/Kg dry	1	V-17	SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
trans-1,4-Dichloro-2-butene	ND	0.010	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
trans-1,4-Dichloro-2-butene	ND	0.0071	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.051	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.035	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
1,1-Dichloroethane	ND	0.0051	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
1,1-Dichloroethane	ND	0.0035	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
1,2-Dichloroethane	ND	0.0051	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
1,2-Dichloroethane	ND	0.0035	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
1,1-Dichloroethylene	ND	0.010	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
1,1-Dichloroethylene	ND	0.0071	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
cis-1,2-Dichloroethylene	ND	0.0051	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
cis-1,2-Dichloroethylene	ND	0.0035	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
trans-1,2-Dichloroethylene	ND	0.0051	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
trans-1,2-Dichloroethylene	ND	0.0035	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
1,2-Dichloropropane	ND	0.0051	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
1,2-Dichloropropane	ND	0.0035	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
1,3-Dichloropropane	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
1,3-Dichloropropane	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
2,2-Dichloropropane	ND	0.0051	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
2,2-Dichloropropane	ND	0.0035	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
1,1-Dichloropropene	ND	0.0051	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
1,1-Dichloropropene	ND	0.0035	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
cis-1,3-Dichloropropene	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
cis-1,3-Dichloropropene	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
trans-1,3-Dichloropropene	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
trans-1,3-Dichloropropene	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
Ethylbenzene	ND	0.0051	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
Ethylbenzene	ND	0.0035	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
Hexachlorobutadiene	ND	0.0051	mg/Kg dry	1	V-17	SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
Hexachlorobutadiene	ND	0.0035	mg/Kg dry	1	V-17	SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
2-Hexanone (MBK)	ND	0.051	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
2-Hexanone (MBK)	ND	0.035	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
Isopropylbenzene (Cumene)	ND	0.0051	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
Isopropylbenzene (Cumene)	ND	0.0035	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
p-Isopropyltoluene (p-Cymene)	0.0060	0.0051	mg/Kg dry	1	V-17	SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0035	mg/Kg dry	1	V-17	SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF

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Project Location: 510A Grand Ave., New Haven, CT Sample Description: Work Order: 20A0963

Date Received: 1/22/2020

Field Sample #: TRC-AOC-1-SOLID-02 Sampled: 1/22/2020 12:30

Sample ID: 20A0963-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.010	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0071	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
Methylene Chloride	ND	0.051	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
Methylene Chloride	ND	0.035	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.051	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.035	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
Naphthalene	ND	0.010	mg/Kg dry	1	V-17	SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
Naphthalene	ND	0.0071	mg/Kg dry	1	V-17	SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
n-Propylbenzene	ND	0.0051	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
n-Propylbenzene	ND	0.0035	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
Styrene	ND	0.0051	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
Styrene	ND	0.0035	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
1,1,1,2-Tetrachloroethane	ND	0.0051	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
1,1,1,2-Tetrachloroethane	ND	0.0035	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
1,1,2,2-Tetrachloroethane	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
1,1,2,2-Tetrachloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
Tetrachloroethylene	ND	0.0051	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
Tetrachloroethylene	ND	0.0035	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
Tetrahydrofuran	ND	0.026	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
Tetrahydrofuran	ND	0.018	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
Toluene	ND	0.0051	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
Toluene	ND	0.0035	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
1,2,3-Trichlorobenzene	ND	0.0051	mg/Kg dry	1	V-17	SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
1,2,3-Trichlorobenzene	ND	0.0035	mg/Kg dry	1	V-17	SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
1,2,4-Trichlorobenzene	ND	0.0051	mg/Kg dry	1	V-17	SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
1,2,4-Trichlorobenzene	ND	0.0035	mg/Kg dry	1	V-17	SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
1,1,1-Trichloroethane	ND	0.0051	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
1,1,1-Trichloroethane	ND	0.0035	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
1,1,2-Trichloroethane	ND	0.0051	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
1,1,2-Trichloroethane	ND	0.0035	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
Trichloroethylene	ND	0.0051	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
Trichloroethylene	ND	0.0035	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
Trichlorofluoromethane (Freon 11)	ND	0.026	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
Trichlorofluoromethane (Freon 11)	ND	0.018	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
1,2,3-Trichloropropane	ND	0.0051	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
1,2,3-Trichloropropane	ND	0.0035	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.026	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.018	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
1,2,4-Trimethylbenzene	0.015	0.0051	mg/Kg dry	1	V-17	SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
1,2,4-Trimethylbenzene	0.0040	0.0035	mg/Kg dry	1	V-17	SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
1,3,5-Trimethylbenzene	ND	0.0051	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
1,3,5-Trimethylbenzene	ND	0.0035	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
Vinyl Chloride	ND	0.026	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510A Grand Ave., New Haven, CT   Sample Description: Work Order: 20A0963

Date Received: 1/22/2020

Field Sample #: TRC-AOC-1-SOLID-02   Sampled: 1/22/2020 12:30

Sample ID: 20A0963-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Vinyl Chloride	ND	0.018	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
m+p Xylene	ND	0.010	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
m+p Xylene	ND	0.0071	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
o-Xylene	ND	0.0051	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
o-Xylene	ND	0.0035	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
Xylenes (total)	ND	0.015	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
Xylenes (total)	ND	0.011	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	81.8	70-130		1/23/20 6:51
1,2-Dichloroethane-d4	82.2	70-130		1/23/20 9:41
Toluene-d8	90.2	70-130		1/23/20 6:51
Toluene-d8	93.1	70-130		1/23/20 9:41
4-Bromofluorobenzene	75.1	70-130		1/23/20 6:51
4-Bromofluorobenzene	84.0	70-130		1/23/20 9:41

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510A Grand Ave., New Haven, CT   Sample Description: Work Order: 20A0963

Date Received: 1/22/2020

Field Sample #: TRC-AOC-1-SOLID-02   Sampled: 1/22/2020 12:30

Sample ID: 20A0963-01

Sample Matrix: Soil

Sample Flags: RL-12

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	6.2	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Acenaphthylene	ND	6.2	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Aniline	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Anthracene	ND	6.2	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Benzo(a)anthracene	ND	6.2	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Benzo(a)pyrene	ND	6.2	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Benzo(b)fluoranthene	ND	6.2	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Benzo(g,h,i)perylene	ND	6.2	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Benzo(k)fluoranthene	ND	6.2	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Bis(2-chloroethoxy)methane	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Bis(2-chloroethyl)ether	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Bis(2-chloroisopropyl)ether	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Bis(2-Ethylhexyl)phthalate	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
4-Bromophenylphenylether	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Butylbenzylphthalate	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Carbazole	ND	6.2	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
4-Chloroaniline	ND	24	mg/Kg dry	10	R-05	SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
4-Chloro-3-methylphenol	ND	24	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
2-Chloronaphthalene	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
2-Chlorophenol	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
4-Chlorophenylphenylether	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Chrysene	ND	6.2	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Dibenz(a,h)anthracene	ND	6.2	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Dibenzofuran	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Di-n-butylphthalate	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
3,3-Dichlorobenzidine	ND	6.2	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
2,4-Dichlorophenol	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Diethylphthalate	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
2,4-Dimethylphenol	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Dimethylphthalate	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
4,6-Dinitro-2-methylphenol	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
2,4-Dinitrophenol	ND	24	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
2,4-Dinitrotoluene	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
2,6-Dinitrotoluene	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Di-n-octylphthalate	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Fluoranthene	ND	6.2	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Fluorene	ND	6.2	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Hexachlorobenzene	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Hexachlorobutadiene	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Hexachlorocyclopentadiene	ND	12	mg/Kg dry	10	V-05	SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Hexachloroethane	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Indeno(1,2,3-cd)pyrene	ND	6.2	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Isophorone	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
2-Methylnaphthalene	ND	6.2	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510A Grand Ave., New Haven, CT   Sample Description: Work Order: 20A0963

Date Received: 1/22/2020

Field Sample #: TRC-AOC-1-SOLID-02   Sampled: 1/22/2020 12:30

Sample ID: 20A0963-01

Sample Matrix: Soil

Sample Flags: RL-12

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
3/4-Methylphenol	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Naphthalene	ND	6.2	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
2-Nitroaniline	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
3-Nitroaniline	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
4-Nitroaniline	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Nitrobenzene	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
2-Nitrophenol	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
4-Nitrophenol	ND	24	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
N-Nitrosodi-n-propylamine	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Pentachloronitrobenzene	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Pentachlorophenol	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Phenanthrene	ND	6.2	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Phenol	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Pyrene	ND	6.2	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Pyridine	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
1,2,4,5-Tetrachlorobenzene	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
1,2,4-Trichlorobenzene	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
2,4,5-Trichlorophenol	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
2,4,6-Trichlorophenol	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	*	30-130	S-01	1/23/20 13:30
Phenol-d6	*	30-130	S-01	1/23/20 13:30
Nitrobenzene-d5	*	30-130	S-01	1/23/20 13:30
2-Fluorobiphenyl	*	30-130	S-01	1/23/20 13:30
2,4,6-Tribromophenol	*	30-130	S-01	1/23/20 13:30
p-Terphenyl-d14	*	30-130	S-01	1/23/20 13:30

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510A Grand Ave., New Haven, CT   Sample Description: Work Order: 20A0963

Date Received: 1/22/2020

Field Sample #: TRC-AOC-1-SOLID-02   Sampled: 1/22/2020 12:30

Sample ID: 20A0963-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.085	mg/Kg	1		SW-846 8082A	1/22/20	1/24/20 13:45	AYH
Aroclor-1221 [1]	ND	0.085	mg/Kg	1		SW-846 8082A	1/22/20	1/24/20 13:45	AYH
Aroclor-1232 [1]	ND	0.085	mg/Kg	1		SW-846 8082A	1/22/20	1/24/20 13:45	AYH
Aroclor-1242 [1]	ND	0.085	mg/Kg	1		SW-846 8082A	1/22/20	1/24/20 13:45	AYH
Aroclor-1248 [1]	ND	0.085	mg/Kg	1		SW-846 8082A	1/22/20	1/24/20 13:45	AYH
Aroclor-1254 [1]	ND	0.085	mg/Kg	1		SW-846 8082A	1/22/20	1/24/20 13:45	AYH
Aroclor-1260 [1]	ND	0.085	mg/Kg	1		SW-846 8082A	1/22/20	1/24/20 13:45	AYH
Aroclor-1262 [1]	ND	0.085	mg/Kg	1		SW-846 8082A	1/22/20	1/24/20 13:45	AYH
Aroclor-1268 [1]	ND	0.085	mg/Kg	1		SW-846 8082A	1/22/20	1/24/20 13:45	AYH
Total PCB Aroclors [1]	0.0		mg/Kg	1		SW-846 8082A	1/22/20	1/24/20 13:45	AYH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.7	30-150		1/24/20 13:45
Decachlorobiphenyl [2]	75.4	30-150		1/24/20 13:45
Tetrachloro-m-xylene [1]	80.2	30-150		1/24/20 13:45
Tetrachloro-m-xylene [2]	74.8	30-150		1/24/20 13:45

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510A Grand Ave., New Haven, CT   Sample Description: Work Order: 20A0963

Date Received: 1/22/2020

Field Sample #: TRC-AOC-1-SOLID-02   Sampled: 1/22/2020 12:30

Sample ID: 20A0963-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	96000	14000	mg/Kg dry	400		CTDEP ETPH	1/23/20	1/23/20 15:00	KLB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorobiphenyl	*	50-150	S-01	1/23/20 15:00

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510A Grand Ave., New Haven, CT   Sample Description: Work Order: 20A0963

Date Received: 1/22/2020

Field Sample #: TRC-AOC-1-SOLID-02   Sampled: 1/22/2020 12:30

Sample ID: 20A0963-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	4.5	2.0	mg/Kg dry	1		SW-846 6010D	1/23/20	1/24/20 12:40	TBC
Barium	190	2.0	mg/Kg dry	1		SW-846 6010D	1/23/20	1/24/20 12:40	TBC
Cadmium	ND	0.20	mg/Kg dry	1		SW-846 6010D	1/23/20	1/24/20 12:40	TBC
Chromium	23	0.39	mg/Kg dry	1		SW-846 6010D	1/23/20	1/24/20 12:40	TBC
Lead	71	0.59	mg/Kg dry	1		SW-846 6010D	1/23/20	1/24/20 12:40	TBC
Mercury	0.14	0.029	mg/Kg dry	1		SW-846 7471B	1/23/20	1/24/20 10:36	CJV
Selenium	ND	3.9	mg/Kg dry	1		SW-846 6010D	1/23/20	1/24/20 12:40	TBC
Silver	ND	0.39	mg/Kg dry	1		SW-846 6010D	1/23/20	1/24/20 12:40	TBC

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510A Grand Ave., New Haven, CT   Sample Description: Work Order: 20A0963

Date Received: 1/22/2020

Field Sample #: TRC-AOC-1-SOLID-02   Sampled: 1/22/2020 12:30

Sample ID: 20A0963-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.9		% Wt	1		SM 2540G	1/22/20	1/23/20 9:18	CBM
Free Liquid	Absent		present/absent	1		SW-846 9095B	1/23/20	1/23/20 9:00	LL
Ignitability	Present		present/absent	1		SW-846 1030	1/23/20	1/23/20 17:00	DJM
pH @18.2°C	10		pH Units	1		SW-846 9045C	1/22/20	1/22/20 20:00	AIA
Reactive Cyanide	ND	4.0	mg/Kg	1		SW-846 9014	1/23/20	1/23/20 13:40	EC
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	1/23/20	1/23/20 13:05	EC

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510A Grand Ave., New Haven, CT   Sample Description: Work Order: 20A0963

Date Received: 1/22/2020

Field Sample #: TRC-AOC-1-SOLID-02   Sampled: 1/22/2020 12:30

Sample ID: 20A0963-01

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	0.050	mg/L	1		SW-846 6010D	1/24/20	1/24/20 14:38	MJH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	1/24/20	1/24/20 12:21	CJV
Barium	ND	0.50	mg/L	1		SW-846 6010D	1/24/20	1/24/20 14:38	MJH
Cadmium	ND	0.010	mg/L	1		SW-846 6010D	1/24/20	1/24/20 14:38	MJH
Chromium	ND	0.050	mg/L	1		SW-846 6010D	1/24/20	1/24/20 14:38	MJH
Lead	ND	0.10	mg/L	1		SW-846 6010D	1/24/20	1/24/20 14:38	MJH
Selenium	ND	0.050	mg/L	1		SW-846 6010D	1/24/20	1/24/20 14:38	MJH
Silver	ND	0.050	mg/L	1		SW-846 6010D	1/24/20	1/24/20 14:38	MJH

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Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0963-01 [TRC-AOC-1-SOLID-02]	B250619	30.0	3.00	01/23/20

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
20A0963-01 [TRC-AOC-1-SOLID-02]	B250624	01/22/20

SW-846 1030

Lab Number [Field ID]	Batch	Initial [g]	Date
20A0963-01 [TRC-AOC-1-SOLID-02]	B250715	50.0	01/23/20

Prep Method: SW-846 3050B-SW-846 6010D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0963-01 [TRC-AOC-1-SOLID-02]	B250680	1.54	50.0	01/23/20

Prep Method: SW-846 3010A-SW-846 6010D **Leachates were extracted on 1/23/2020 per SW-846 1311 in Batch B250683**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
20A0963-01 [TRC-AOC-1-SOLID-02]	B250763	50.0	50.0	01/24/20

Prep Method: SW-846 7470A Prep-SW-846 7470A **Leachates were extracted on 1/23/2020 per SW-846 1311 in Batch B250683**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
20A0963-01 [TRC-AOC-1-SOLID-02]	B250764	6.00	6.00	01/24/20

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0963-01 [TRC-AOC-1-SOLID-02]	B250651	0.616	50.0	01/23/20

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0963-01 [TRC-AOC-1-SOLID-02]	B250593	2.35	10.0	01/22/20

Prep Method: SW-846 5035-SW-846 8260C-D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0963-01 [TRC-AOC-1-SOLID-02]	B250629	2.35	10.0	01/23/20
20A0963-01RE1 [TRC-AOC-1-SOLID-02]	B250629	3.40	10.0	01/23/20

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Sample Extraction Data

Prep Method: SW-846 3546-SW-846 8270D-E

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0963-01 [TRC-AOC-1-SOLID-02]	B250530	30.0	3.00	01/22/20

SW-846 9014

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0963-01 [TRC-AOC-1-SOLID-02]	B250645	25.2	250	01/23/20

SW-846 9030A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0963-01 [TRC-AOC-1-SOLID-02]	B250646	25.2	250	01/23/20

SW-846 9045C

Lab Number [Field ID]	Batch	Initial [g]	Date
20A0963-01 [TRC-AOC-1-SOLID-02]	B250616	20.0	01/22/20

SW-846 9095B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0963-01 [TRC-AOC-1-SOLID-02]	B250640	100	100	01/23/20

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250629 - SW-846 5035										
Blank (B250629-BLK1)				Prepared & Analyzed: 01/23/20						
Acetone	ND	0.10	mg/Kg wet							
Acrylonitrile	ND	0.0060	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							V-34
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
trans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250629 - SW-846 5035										
Blank (B250629-BLK1)				Prepared & Analyzed: 01/23/20						
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Xylenes (total)	ND	0.0060	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	*0.0393*		mg/Kg wet	0.0500		78.5	70-130			
Surrogate: Toluene-d8	*0.0483*		mg/Kg wet	0.0500		96.5	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0511*		mg/Kg wet	0.0500		102	70-130			
LCS (B250629-BS1)				Prepared & Analyzed: 01/23/20						
Acetone	0.178	0.10	mg/Kg wet	0.200		89.2	40-160			
Acrylonitrile	0.0188	0.0060	mg/Kg wet	0.0200		93.9	70-130			
Benzene	0.0187	0.0020	mg/Kg wet	0.0200		93.7	70-130			
Bromobenzene	0.0192	0.0020	mg/Kg wet	0.0200		96.2	70-130			
Bromodichloromethane	0.0189	0.0020	mg/Kg wet	0.0200		94.5	70-130			
Bromoform	0.0238	0.0020	mg/Kg wet	0.0200		119	70-130			
Bromomethane	0.0189	0.010	mg/Kg wet	0.0200		94.7	40-160			V-34
2-Butanone (MEK)	0.190	0.040	mg/Kg wet	0.200		95.1	40-160			
n-Butylbenzene	0.0159	0.0020	mg/Kg wet	0.0200		79.4	70-130			
sec-Butylbenzene	0.0187	0.0020	mg/Kg wet	0.0200		93.7	70-130			
tert-Butylbenzene	0.0183	0.0020	mg/Kg wet	0.0200		91.5	70-130			
Carbon Disulfide	0.181	0.0060	mg/Kg wet	0.200		90.4	70-130			
Carbon Tetrachloride	0.0198	0.0020	mg/Kg wet	0.0200		99.2	70-130			
Chlorobenzene	0.0219	0.0020	mg/Kg wet	0.0200		109	70-130			
Chlorodibromomethane	0.0220	0.0010	mg/Kg wet	0.0200		110	40-160			
Chloroethane	0.0180	0.020	mg/Kg wet	0.0200		89.9	70-130			
Chloroform	0.0179	0.0040	mg/Kg wet	0.0200		89.6	70-130			
Chloromethane	0.0174	0.010	mg/Kg wet	0.0200		87.1	40-160			
2-Chlorotoluene	0.0197	0.0020	mg/Kg wet	0.0200		98.3	70-130			
4-Chlorotoluene	0.0187	0.0020	mg/Kg wet	0.0200		93.4	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0183	0.0020	mg/Kg wet	0.0200		91.5	70-130			
1,2-Dibromoethane (EDB)	0.0227	0.0010	mg/Kg wet	0.0200		113	70-130			
Dibromomethane	0.0228	0.0020	mg/Kg wet	0.0200		114	70-130			
1,2-Dichlorobenzene	0.0193	0.0020	mg/Kg wet	0.0200		96.3	70-130			
1,3-Dichlorobenzene	0.0189	0.0020	mg/Kg wet	0.0200		94.3	70-130			
1,4-Dichlorobenzene	0.0182	0.0020	mg/Kg wet	0.0200		90.9	70-130			
trans-1,4-Dichloro-2-butene	0.0187	0.0040	mg/Kg wet	0.0200		93.3	70-130			
Dichlorodifluoromethane (Freon 12)	0.0210	0.020	mg/Kg wet	0.0200		105	40-160			
1,1-Dichloroethane	0.0187	0.0020	mg/Kg wet	0.0200		93.6	70-130			
1,2-Dichloroethane	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250629 - SW-846 5035										
LCS (B250629-BS1)				Prepared & Analyzed: 01/23/20						
1,1-Dichloroethylene	0.0166	0.0040	mg/Kg wet	0.0200		83.1	70-130			
cis-1,2-Dichloroethylene	0.0178	0.0020	mg/Kg wet	0.0200		89.2	70-130			
trans-1,2-Dichloroethylene	0.0186	0.0020	mg/Kg wet	0.0200		92.9	70-130			
1,2-Dichloropropane	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
1,3-Dichloropropane	0.0216	0.0010	mg/Kg wet	0.0200		108	70-130			
2,2-Dichloropropane	0.0174	0.0020	mg/Kg wet	0.0200		87.0	70-130			
1,1-Dichloropropene	0.0176	0.0020	mg/Kg wet	0.0200		87.9	70-130			
cis-1,3-Dichloropropene	0.0207	0.0010	mg/Kg wet	0.0200		104	70-130			
trans-1,3-Dichloropropene	0.0204	0.0010	mg/Kg wet	0.0200		102	70-130			
Ethylbenzene	0.0187	0.0020	mg/Kg wet	0.0200		93.7	70-130			
Hexachlorobutadiene	0.0199	0.0020	mg/Kg wet	0.0200		99.6	40-160			
2-Hexanone (MBK)	0.186	0.020	mg/Kg wet	0.200		92.9	70-130			
Isopropylbenzene (Cumene)	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
p-Isopropyltoluene (p-Cymene)	0.0179	0.0020	mg/Kg wet	0.0200		89.7	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0196	0.0040	mg/Kg wet	0.0200		97.8	70-130			
Methylene Chloride	0.0191	0.020	mg/Kg wet	0.0200		95.6	70-130			
4-Methyl-2-pentanone (MIBK)	0.187	0.020	mg/Kg wet	0.200		93.7	40-160			
Naphthalene	0.0168	0.0040	mg/Kg wet	0.0200		84.1	70-130			
n-Propylbenzene	0.0191	0.0020	mg/Kg wet	0.0200		95.3	70-130			
Styrene	0.0213	0.0020	mg/Kg wet	0.0200		107	70-130			
1,1,1,2-Tetrachloroethane	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130			
1,1,2,2-Tetrachloroethane	0.0203	0.0010	mg/Kg wet	0.0200		102	70-130			
Tetrachloroethylene	0.0234	0.0020	mg/Kg wet	0.0200		117	70-130			
Tetrahydrofuran	0.0192	0.010	mg/Kg wet	0.0200		96.2	70-130			
Toluene	0.0198	0.0020	mg/Kg wet	0.0200		98.9	70-130			
1,2,3-Trichlorobenzene	0.0187	0.0020	mg/Kg wet	0.0200		93.6	70-130			
1,2,4-Trichlorobenzene	0.0186	0.0020	mg/Kg wet	0.0200		93.0	70-130			
1,1,1-Trichloroethane	0.0178	0.0020	mg/Kg wet	0.0200		89.0	70-130			
1,1,2-Trichloroethane	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
Trichloroethylene	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130			
Trichlorofluoromethane (Freon 11)	0.0185	0.010	mg/Kg wet	0.0200		92.5	40-160			
1,2,3-Trichloropropane	0.0227	0.0020	mg/Kg wet	0.0200		114	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0191	0.010	mg/Kg wet	0.0200		95.3	70-130			
1,2,4-Trimethylbenzene	0.0167	0.0020	mg/Kg wet	0.0200		83.3	70-130			
1,3,5-Trimethylbenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.7	70-130			
Vinyl Chloride	0.0170	0.010	mg/Kg wet	0.0200		85.1	70-130			
m+p Xylene	0.0380	0.0040	mg/Kg wet	0.0400		94.9	70-130			
o-Xylene	0.0190	0.0020	mg/Kg wet	0.0200		95.2	70-130			
Xylenes (total)	0.0570	0.0060	mg/Kg wet	0.0600		95.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0387*		mg/Kg wet	0.0500		77.4	70-130			
Surrogate: Toluene-d8	*0.0487*		mg/Kg wet	0.0500		97.3	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0524*		mg/Kg wet	0.0500		105	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250530 - SW-846 3546										
Blank (B250530-BLK1)				Prepared: 01/22/20 Analyzed: 01/23/20						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Aniline	ND	0.34	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
Carbazole	ND	0.17	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							R-05
4-Chloro-3-methylphenol	ND	0.66	mg/Kg wet							
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
4-Chlorophenylphenylether	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
4,6-Dinitro-2-methylphenol	ND	0.34	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachlorocyclopentadiene	ND	0.34	mg/Kg wet							V-05
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
2-Nitroaniline	ND	0.34	mg/Kg wet							
3-Nitroaniline	ND	0.34	mg/Kg wet							
4-Nitroaniline	ND	0.34	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250530 - SW-846 3546										
Blank (B250530-BLK1)				Prepared: 01/22/20 Analyzed: 01/23/20						
4-Nitrophenol	ND	0.66	mg/Kg wet							
N-Nitrosodiphenylamine/Diphenylamine	ND	0.34	mg/Kg wet							
N-Nitrosodi-n-propylamine	ND	0.34	mg/Kg wet							
Pentachloronitrobenzene	ND	0.34	mg/Kg wet							
Pentachlorophenol	ND	0.34	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Phenol	ND	0.34	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Pyridine	ND	0.34	mg/Kg wet							
1,2,4,5-Tetrachlorobenzene	ND	0.34	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg wet							
2,4,5-Trichlorophenol	ND	0.34	mg/Kg wet							
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet							
Surrogate: 2-Fluorophenol	*5.23*		mg/Kg wet	6.67		78.5	30-130			
Surrogate: Phenol-d6	*5.57*		mg/Kg wet	6.67		83.5	30-130			
Surrogate: Nitrobenzene-d5	*2.62*		mg/Kg wet	3.33		78.5	30-130			
Surrogate: 2-Fluorobiphenyl	*3.32*		mg/Kg wet	3.33		99.6	30-130			
Surrogate: 2,4,6-Tribromophenol	*5.63*		mg/Kg wet	6.67		84.5	30-130			
Surrogate: p-Terphenyl-d14	*2.81*		mg/Kg wet	3.33		84.4	30-130			
LCS (B250530-BS1)				Prepared: 01/22/20 Analyzed: 01/23/20						
Acenaphthene	1.33	0.17	mg/Kg wet	1.67		80.0	40-140			
Acenaphthylene	1.39	0.17	mg/Kg wet	1.67		83.2	40-140			
Aniline	1.21	0.34	mg/Kg wet	1.67		72.8	40-140			†
Anthracene	1.39	0.17	mg/Kg wet	1.67		83.2	40-140			
Benzo(a)anthracene	1.35	0.17	mg/Kg wet	1.67		80.9	40-140			
Benzo(a)pyrene	1.39	0.17	mg/Kg wet	1.67		83.5	40-140			
Benzo(b)fluoranthene	1.37	0.17	mg/Kg wet	1.67		82.2	40-140			
Benzo(g,h,i)perylene	1.35	0.17	mg/Kg wet	1.67		80.9	40-140			
Benzo(k)fluoranthene	1.38	0.17	mg/Kg wet	1.67		82.6	40-140			
Bis(2-chloroethoxy)methane	1.28	0.34	mg/Kg wet	1.67		76.9	40-140			
Bis(2-chloroethyl)ether	1.28	0.34	mg/Kg wet	1.67		77.0	40-140			
Bis(2-chloroisopropyl)ether	1.67	0.34	mg/Kg wet	1.67		100	40-140			
Bis(2-Ethylhexyl)phthalate	1.17	0.34	mg/Kg wet	1.67		70.1	40-140			
4-Bromophenylphenylether	1.35	0.34	mg/Kg wet	1.67		81.1	40-140			
Butylbenzylphthalate	1.20	0.34	mg/Kg wet	1.67		72.2	40-140			
Carbazole	1.35	0.17	mg/Kg wet	1.67		80.8	40-140			
4-Chloroaniline	1.19	0.66	mg/Kg wet	1.67		71.4	40-140			R-05 †
4-Chloro-3-methylphenol	1.52	0.66	mg/Kg wet	1.67		91.5	30-130			
2-Chloronaphthalene	1.33	0.34	mg/Kg wet	1.67		80.0	40-140			
2-Chlorophenol	1.32	0.34	mg/Kg wet	1.67		79.2	30-130			
4-Chlorophenylphenylether	1.42	0.34	mg/Kg wet	1.67		85.3	40-140			
Chrysene	1.31	0.17	mg/Kg wet	1.67		78.7	40-140			
Dibenz(a,h)anthracene	1.37	0.17	mg/Kg wet	1.67		82.2	40-140			
Dibenzofuran	1.45	0.34	mg/Kg wet	1.67		87.1	40-140			
Di-n-butylphthalate	1.36	0.34	mg/Kg wet	1.67		81.4	40-140			
3,3-Dichlorobenzidine	1.41	0.17	mg/Kg wet	1.67		84.3	40-140			†
2,4-Dichlorophenol	1.45	0.34	mg/Kg wet	1.67		87.2	30-130			
Diethylphthalate	1.39	0.34	mg/Kg wet	1.67		83.7	40-140			
2,4-Dimethylphenol	1.31	0.34	mg/Kg wet	1.67		78.5	30-130			
Dimethylphthalate	1.37	0.34	mg/Kg wet	1.67		82.1	40-140			
4,6-Dinitro-2-methylphenol	1.20	0.34	mg/Kg wet	1.67		72.2	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250530 - SW-846 3546										
LCS (B250530-BS1)				Prepared: 01/22/20 Analyzed: 01/23/20						
2,4-Dinitrophenol	0.897	0.66	mg/Kg wet	1.67		53.8	30-130			
2,4-Dinitrotoluene	1.32	0.34	mg/Kg wet	1.67		79.4	40-140			
2,6-Dinitrotoluene	1.43	0.34	mg/Kg wet	1.67		86.1	40-140			
Di-n-octylphthalate	1.16	0.34	mg/Kg wet	1.67		69.9	40-140			
Fluoranthene	1.48	0.17	mg/Kg wet	1.67		89.1	40-140			
Fluorene	1.38	0.17	mg/Kg wet	1.67		82.8	40-140			
Hexachlorobenzene	1.45	0.34	mg/Kg wet	1.67		87.1	40-140			
Hexachlorobutadiene	1.45	0.34	mg/Kg wet	1.67		86.9	40-140			
Hexachlorocyclopentadiene	0.584	0.34	mg/Kg wet	1.67		35.0	30-140			V-05
Hexachloroethane	1.13	0.34	mg/Kg wet	1.67		68.0	40-140			
Indeno(1,2,3-cd)pyrene	1.50	0.17	mg/Kg wet	1.67		90.1	40-140			
Isophorone	1.45	0.34	mg/Kg wet	1.67		86.7	40-140			
2-Methylnaphthalene	1.53	0.17	mg/Kg wet	1.67		91.6	40-140			
2-Methylphenol	1.26	0.34	mg/Kg wet	1.67		75.6	30-130			
3/4-Methylphenol	1.37	0.34	mg/Kg wet	1.67		82.1	30-130			
Naphthalene	1.32	0.17	mg/Kg wet	1.67		79.3	40-140			
2-Nitroaniline	1.60	0.34	mg/Kg wet	1.67		95.8	40-140			
3-Nitroaniline	1.24	0.34	mg/Kg wet	1.67		74.5	40-140			†
4-Nitroaniline	1.37	0.34	mg/Kg wet	1.67		82.4	40-140			
Nitrobenzene	1.42	0.34	mg/Kg wet	1.67		85.2	40-140			
2-Nitrophenol	1.37	0.34	mg/Kg wet	1.67		82.0	30-130			
4-Nitrophenol	1.67	0.66	mg/Kg wet	1.67		100	10-130			
N-Nitrosodiphenylamine/Diphenylamine	1.40	0.34	mg/Kg wet	1.67		84.1	40-140			
N-Nitrosodi-n-propylamine	1.41	0.34	mg/Kg wet	1.67		84.3	40-140			
Pentachloronitrobenzene	1.44	0.34	mg/Kg wet	1.67		86.6	40-140			
Pentachlorophenol	1.12	0.34	mg/Kg wet	1.67		67.2	30-130			
Phenanthrene	1.40	0.17	mg/Kg wet	1.67		83.7	40-140			
Phenol	1.33	0.34	mg/Kg wet	1.67		79.9	20-130			
Pyrene	1.32	0.17	mg/Kg wet	1.67		79.2	40-140			
Pyridine	0.738	0.34	mg/Kg wet	1.67		44.3	10-140			†
1,2,4,5-Tetrachlorobenzene	1.42	0.34	mg/Kg wet	1.67		84.9	40-140			
1,2,4-Trichlorobenzene	1.39	0.34	mg/Kg wet	1.67		83.5	40-140			
2,4,5-Trichlorophenol	1.53	0.34	mg/Kg wet	1.67		91.7	30-130			
2,4,6-Trichlorophenol	1.48	0.34	mg/Kg wet	1.67		88.9	30-130			
Surrogate: 2-Fluorophenol	*5.71*		mg/Kg wet	6.67		85.6	30-130			
Surrogate: Phenol-d6	*6.03*		mg/Kg wet	6.67		90.4	30-130			
Surrogate: Nitrobenzene-d5	*2.85*		mg/Kg wet	3.33		85.5	30-130			
Surrogate: 2-Fluorobiphenyl	*3.68*		mg/Kg wet	3.33		110	30-130			
Surrogate: 2,4,6-Tribromophenol	*6.29*		mg/Kg wet	6.67		94.4	30-130			
Surrogate: p-Terphenyl-d14	*2.92*		mg/Kg wet	3.33		87.5	30-130			
LCS Dup (B250530-BSD1)				Prepared: 01/22/20 Analyzed: 01/23/20						
Acenaphthene	1.26	0.17	mg/Kg wet	1.67		75.4	40-140	5.90	30	
Acenaphthylene	1.30	0.17	mg/Kg wet	1.67		78.0	40-140	6.48	30	
Aniline	0.882	0.34	mg/Kg wet	1.67		52.9	40-140	31.6	50	† ‡
Anthracene	1.35	0.17	mg/Kg wet	1.67		80.8	40-140	2.88	30	
Benzo(a)anthracene	1.31	0.17	mg/Kg wet	1.67		78.9	40-140	2.50	30	
Benzo(a)pyrene	1.30	0.17	mg/Kg wet	1.67		78.0	40-140	6.74	30	
Benzo(b)fluoranthene	1.31	0.17	mg/Kg wet	1.67		78.8	40-140	4.22	30	
Benzo(g,h,i)perylene	1.29	0.17	mg/Kg wet	1.67		77.5	40-140	4.22	30	
Benzo(k)fluoranthene	1.31	0.17	mg/Kg wet	1.67		78.7	40-140	4.79	30	
Bis(2-chloroethoxy)methane	1.21	0.34	mg/Kg wet	1.67		72.8	40-140	5.45	30	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD		RPD Limit	Notes	
Batch B250530 - SW-846 3546												
LCS Dup (B250530-BSD1)				Prepared: 01/22/20 Analyzed: 01/23/20								
Bis(2-chloroethyl)ether	1.25	0.34	mg/Kg wet	1.67		75.1	40-140	2.47		30		
Bis(2-chloroisopropyl)ether	1.62	0.34	mg/Kg wet	1.67		97.1	40-140	3.06		30		
Bis(2-Ethylhexyl)phthalate	1.13	0.34	mg/Kg wet	1.67		68.1	40-140	2.92		30		
4-Bromophenylphenylether	1.30	0.34	mg/Kg wet	1.67		77.7	40-140	4.31		30		
Butylbenzylphthalate	1.15	0.34	mg/Kg wet	1.67		68.9	40-140	4.65		30		
Carbazole	1.28	0.17	mg/Kg wet	1.67		76.7	40-140	5.18		30		
4-Chloroaniline	0.877	0.66	mg/Kg wet	1.67		52.6	40-140	**30.3**	*	30	R-05	†
4-Chloro-3-methylphenol	1.42	0.66	mg/Kg wet	1.67		85.5	30-130	6.80		30		
2-Chloronaphthalene	1.25	0.34	mg/Kg wet	1.67		75.1	40-140	6.27		30		
2-Chlorophenol	1.28	0.34	mg/Kg wet	1.67		76.9	30-130	2.90		30		
4-Chlorophenylphenylether	1.33	0.34	mg/Kg wet	1.67		79.6	40-140	6.93		30		
Chrysene	1.26	0.17	mg/Kg wet	1.67		75.6	40-140	4.12		30		
Dibenz(a,h)anthracene	1.34	0.17	mg/Kg wet	1.67		80.4	40-140	2.19		30		
Dibenzofuran	1.36	0.34	mg/Kg wet	1.67		81.8	40-140	6.20		30		
Di-n-butylphthalate	1.28	0.34	mg/Kg wet	1.67		76.7	40-140	5.92		30		
3,3-Dichlorobenzidine	1.07	0.17	mg/Kg wet	1.67		64.4	40-140	26.8		30		† ‡
2,4-Dichlorophenol	1.38	0.34	mg/Kg wet	1.67		82.8	30-130	5.18		30		
Diethylphthalate	1.32	0.34	mg/Kg wet	1.67		79.0	40-140	5.78		30		
2,4-Dimethylphenol	1.26	0.34	mg/Kg wet	1.67		75.8	30-130	3.60		30		
Dimethylphthalate	1.29	0.34	mg/Kg wet	1.67		77.6	40-140	5.61		50		
4,6-Dinitro-2-methylphenol	1.14	0.34	mg/Kg wet	1.67		68.3	30-130	5.55		50		
2,4-Dinitrophenol	0.825	0.66	mg/Kg wet	1.67		49.5	30-130	8.40		50		
2,4-Dinitrotoluene	1.28	0.34	mg/Kg wet	1.67		76.8	40-140	3.33		30		
2,6-Dinitrotoluene	1.36	0.34	mg/Kg wet	1.67		81.4	40-140	5.54		30		
Di-n-octylphthalate	1.09	0.34	mg/Kg wet	1.67		65.2	40-140	6.87		30		
Fluoranthene	1.40	0.17	mg/Kg wet	1.67		84.2	40-140	5.63		30		
Fluorene	1.32	0.17	mg/Kg wet	1.67		79.0	40-140	4.70		30		
Hexachlorobenzene	1.40	0.34	mg/Kg wet	1.67		83.9	40-140	3.79		30		
Hexachlorobutadiene	1.37	0.34	mg/Kg wet	1.67		82.1	40-140	5.70		30		
Hexachlorocyclopentadiene	0.565	0.34	mg/Kg wet	1.67		33.9	30-140	3.31		50	V-05	
Hexachloroethane	1.11	0.34	mg/Kg wet	1.67		66.4	40-140	2.47		50		
Indeno(1,2,3-cd)pyrene	1.49	0.17	mg/Kg wet	1.67		89.6	40-140	0.557		50		
Isophorone	1.37	0.34	mg/Kg wet	1.67		82.3	40-140	5.28		30		
2-Methylnaphthalene	1.46	0.17	mg/Kg wet	1.67		87.9	40-140	4.12		30		
2-Methylphenol	1.22	0.34	mg/Kg wet	1.67		73.2	30-130	3.23		30		
3/4-Methylphenol	1.29	0.34	mg/Kg wet	1.67		77.6	30-130	5.64		30		
Naphthalene	1.27	0.17	mg/Kg wet	1.67		76.3	40-140	3.96		30		
2-Nitroaniline	1.50	0.34	mg/Kg wet	1.67		90.1	40-140	6.05		30		
3-Nitroaniline	1.10	0.34	mg/Kg wet	1.67		65.8	40-140	12.4		30		†
4-Nitroaniline	1.26	0.34	mg/Kg wet	1.67		75.6	40-140	8.51		30		
Nitrobenzene	1.38	0.34	mg/Kg wet	1.67		82.6	40-140	3.03		30		
2-Nitrophenol	1.34	0.34	mg/Kg wet	1.67		80.5	30-130	1.87		30		
4-Nitrophenol	1.57	0.66	mg/Kg wet	1.67		94.5	10-130	6.00		50		‡
N-Nitrosodiphenylamine/Diphenylamine	1.34	0.34	mg/Kg wet	1.67		80.2	40-140	4.84		30		
N-Nitrosodi-n-propylamine	1.33	0.34	mg/Kg wet	1.67		79.9	40-140	5.41		30		
Pentachloronitrobenzene	1.36	0.34	mg/Kg wet	1.67		81.7	40-140	5.80		30		
Pentachlorophenol	1.00	0.34	mg/Kg wet	1.67		60.2	30-130	10.9		50		
Phenanthrene	1.34	0.17	mg/Kg wet	1.67		80.7	40-140	3.70		30		
Phenol	1.29	0.34	mg/Kg wet	1.67		77.5	20-130	3.02		30		
Pyrene	1.30	0.17	mg/Kg wet	1.67		77.9	40-140	1.68		30		
Pyridine	0.671	0.34	mg/Kg wet	1.67		40.3	10-140	9.51		50		†
1,2,4,5-Tetrachlorobenzene	1.37	0.34	mg/Kg wet	1.67		82.1	40-140	3.40		30		

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250530 - SW-846 3546										
LCS Dup (B250530-BSD1)				Prepared: 01/22/20 Analyzed: 01/23/20						
1,2,4-Trichlorobenzene	1.34	0.34	mg/Kg wet	1.67		80.4	40-140	3.69	30	
2,4,5-Trichlorophenol	1.43	0.34	mg/Kg wet	1.67		85.9	30-130	6.58	30	
2,4,6-Trichlorophenol	1.39	0.34	mg/Kg wet	1.67		83.2	30-130	6.64	50	
Surrogate: 2-Fluorophenol	*5.52*		mg/Kg wet	6.67		82.8	30-130			
Surrogate: Phenol-d6	*5.82*		mg/Kg wet	6.67		87.4	30-130			
Surrogate: Nitrobenzene-d5	*2.77*		mg/Kg wet	3.33		83.2	30-130			
Surrogate: 2-Fluorobiphenyl	*3.46*		mg/Kg wet	3.33		104	30-130			
Surrogate: 2,4,6-Tribromophenol	*5.95*		mg/Kg wet	6.67		89.3	30-130			
Surrogate: p-Terphenyl-d14	*2.85*		mg/Kg wet	3.33		85.5	30-130			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250593 - SW-846 3540C										
Blank (B250593-BLK1)				Prepared: 01/22/20 Analyzed: 01/24/20						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Total PCB Aroclors	0.0		mg/Kg							
Surrogate: Decachlorobiphenyl	*1.10*		mg/Kg	1.00		110	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.06*		mg/Kg	1.00		106	30-150			
Surrogate: Tetrachloro-m-xylene	*0.998*		mg/Kg	1.00		99.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.971*		mg/Kg	1.00		97.1	30-150			
LCS (B250593-BS1)				Prepared: 01/22/20 Analyzed: 01/24/20						
Aroclor-1016	0.85	0.10	mg/Kg	1.00		84.6	40-140			
Aroclor-1016 [2C]	0.86	0.10	mg/Kg	1.00		85.7	40-140			
Aroclor-1260	0.84	0.10	mg/Kg	1.00		83.8	40-140			
Aroclor-1260 [2C]	0.81	0.10	mg/Kg	1.00		81.4	40-140			
Surrogate: Decachlorobiphenyl	*0.937*		mg/Kg	1.00		93.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.907*		mg/Kg	1.00		90.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.863*		mg/Kg	1.00		86.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.843*		mg/Kg	1.00		84.3	30-150			
LCS Dup (B250593-BSD1)				Prepared: 01/22/20 Analyzed: 01/24/20						
Aroclor-1016	0.84	0.10	mg/Kg	1.00		83.6	40-140	1.19	30	
Aroclor-1016 [2C]	0.84	0.10	mg/Kg	1.00		83.9	40-140	2.19	30	
Aroclor-1260	0.83	0.10	mg/Kg	1.00		83.0	40-140	0.968	30	
Aroclor-1260 [2C]	0.81	0.10	mg/Kg	1.00		81.2	40-140	0.294	30	
Surrogate: Decachlorobiphenyl	*0.943*		mg/Kg	1.00		94.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.919*		mg/Kg	1.00		91.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.863*		mg/Kg	1.00		86.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.861*		mg/Kg	1.00		86.1	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250619 - SW-846 3546										
Blank (B250619-BLK1)				Prepared & Analyzed: 01/23/20						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: 2-Fluorobiphenyl	*2.05*		mg/Kg wet	3.33		61.6	50-150			
LCS (B250619-BS1)				Prepared & Analyzed: 01/23/20						
CT ETPH	23.6	10	mg/Kg wet	33.3		70.8	60-120			
Surrogate: 2-Fluorobiphenyl	*2.46*		mg/Kg wet	3.33		73.8	50-150			
LCS Dup (B250619-BSD1)				Prepared & Analyzed: 01/23/20						
CT ETPH	24.3	10	mg/Kg wet	33.3		72.9	60-120	2.92	30	
Surrogate: 2-Fluorobiphenyl	*2.41*		mg/Kg wet	3.33		72.4	50-150			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250651 - SW-846 7471										
Blank (B250651-BLK1)				Prepared: 01/23/20 Analyzed: 01/24/20						
Mercury	ND	0.025	mg/Kg wet							
LCS (B250651-BS1)				Prepared: 01/23/20 Analyzed: 01/24/20						
Mercury	8.11	0.39	mg/Kg wet	7.61		107	72.7-127.3			
LCS Dup (B250651-BSD1)				Prepared: 01/23/20 Analyzed: 01/24/20						
Mercury	7.98	0.38	mg/Kg wet	7.61		105	72.7-127.3	1.59	20	
Batch B250680 - SW-846 3050B										
Blank (B250680-BLK1)				Prepared: 01/23/20 Analyzed: 01/24/20						
Arsenic	ND	1.7	mg/Kg wet							
Barium	ND	1.7	mg/Kg wet							
Cadmium	ND	0.17	mg/Kg wet							
Chromium	ND	0.33	mg/Kg wet							
Lead	ND	0.50	mg/Kg wet							
Selenium	ND	3.3	mg/Kg wet							
Silver	ND	0.33	mg/Kg wet							
LCS (B250680-BS1)				Prepared: 01/23/20 Analyzed: 01/24/20						
Arsenic	128	5.1	mg/Kg wet	143		89.3	83.2-117.5			
Barium	388	5.1	mg/Kg wet	415		93.5	82.7-117.6			
Cadmium	51.1	0.51	mg/Kg wet	56.2		90.9	82.9-117.3			
Chromium	85.9	1.0	mg/Kg wet	101		85.1	82.4-116.8			
Lead	111	1.5	mg/Kg wet	125		88.8	82.4-116.8			
Selenium	66.4	10	mg/Kg wet	77.9		85.2	79.3-120.7			
Silver	31.3	1.0	mg/Kg wet	34.3		91.4	81-119.2			
LCS Dup (B250680-BSD1)				Prepared: 01/23/20 Analyzed: 01/24/20						
Arsenic	122	5.0	mg/Kg wet	143		85.1	83.2-117.5	4.74	30	
Barium	377	5.0	mg/Kg wet	415		91.0	82.7-117.6	2.71	20	
Cadmium	54.6	0.50	mg/Kg wet	56.2		97.2	82.9-117.3	6.60	20	
Chromium	85.1	0.99	mg/Kg wet	101		84.3	82.4-116.8	0.980	30	
Lead	105	1.5	mg/Kg wet	125		84.0	82.4-116.8	5.57	30	
Selenium	62.8	9.9	mg/Kg wet	77.9		80.6	79.3-120.7	5.60	30	
Silver	30.3	0.99	mg/Kg wet	34.3		88.3	81-119.2	3.41	30	
Reference (B250680-SRM1) MRL Check				Prepared: 01/23/20 Analyzed: 01/24/20						
Lead	0.432	0.47	mg/Kg wet	0.471		91.7	80-120			

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250616 - SW-846 9045C										
LCS (B250616-BS1)				Prepared & Analyzed: 01/22/20						
pH	6.00		pH Units	6.00		100	90-110			
Duplicate (B250616-DUP1)	**Source: 20A0963-01**			Prepared & Analyzed: 01/22/20						
pH	10		pH Units		10			1.12	6.96	
Batch B250645 - SW-846 9014										
Blank (B250645-BLK1)				Prepared & Analyzed: 01/23/20						
Reactive Cyanide	ND	0.40	mg/Kg							
LCS (B250645-BS1)				Prepared & Analyzed: 01/23/20						
Reactive Cyanide	9.4	0.40	mg/Kg	10.0		94.4	82.8-113			
Batch B250646 - SW-846 9030A										
Blank (B250646-BLK1)				Prepared & Analyzed: 01/23/20						
Reactive Sulfide	ND	2.0	mg/Kg							
LCS (B250646-BS1)				Prepared & Analyzed: 01/23/20						
Reactive Sulfide	14	2.0	mg/Kg	14.8		97.3	57.6-114			

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QUALITY CONTROL

TCLP - Metals Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250763 - SW-846 3010A										
Blank (B250763-BLK1)				Prepared & Analyzed: 01/24/20						
Arsenic	ND	0.050	mg/L							
Barium	ND	0.50	mg/L							
Cadmium	ND	0.010	mg/L							
Chromium	ND	0.050	mg/L							
Lead	ND	0.10	mg/L							
Selenium	ND	0.050	mg/L							
Silver	ND	0.050	mg/L							
LCS (B250763-BS1)				Prepared & Analyzed: 01/24/20						
Arsenic	0.506	0.050	mg/L	0.500		101	80-120			
Barium	0.503	0.50	mg/L	0.500		101	80-120			
Cadmium	0.515	0.010	mg/L	0.500		103	80-120			
Chromium	0.491	0.050	mg/L	0.500		98.2	80-120			
Lead	0.493	0.10	mg/L	0.500		98.6	80-120			
Selenium	0.561	0.050	mg/L	0.500		112	80-120			
Silver	0.578	0.050	mg/L	0.500		116	80-120			
LCS Dup (B250763-BSD1)				Prepared & Analyzed: 01/24/20						
Arsenic	0.484	0.050	mg/L	0.500		96.9	80-120	4.31	20	
Barium	0.496	0.50	mg/L	0.500		99.3	80-120	1.29	20	
Cadmium	0.507	0.010	mg/L	0.500		101	80-120	1.44	20	
Chromium	0.483	0.050	mg/L	0.500		96.6	80-120	1.67	20	
Lead	0.474	0.10	mg/L	0.500		94.8	80-120	3.98	20	
Selenium	0.516	0.050	mg/L	0.500		103	80-120	8.40	20	
Silver	0.571	0.050	mg/L	0.500		114	80-120	1.18	20	
Batch B250764 - SW-846 7470A Prep										
Blank (B250764-BLK1)				Prepared & Analyzed: 01/24/20						
Mercury	ND	0.00010	mg/L							
LCS (B250764-BS1)				Prepared & Analyzed: 01/24/20						
Mercury	0.00386	0.00010	mg/L	0.00400		96.6	80-120			
LCS Dup (B250764-BSD1)				Prepared & Analyzed: 01/24/20						
Mercury	0.00387	0.00010	mg/L	0.00400		96.8	80-120	0.170	20	
Matrix Spike (B250764-MS1)	**Source: 20A0963-01**			Prepared & Analyzed: 01/24/20						
Mercury	0.00367	0.00010	mg/L	0.00400	0.0000404	90.7	75-125			

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IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B250593-BS1

Date(s) Analyzed: 01/24/2020 01/24/2020

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.85	
	2	0.000	0.000	0.000	0.86	1.2
Aroclor-1260	1	0.000	0.000	0.000	0.84	
	2	0.000	0.000	0.000	0.81	3.6

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IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B250593-BSD1

Date(s) Analyzed: 01/24/2020 01/24/2020

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.84	
	2	0.000	0.000	0.000	0.84	0.0
Aroclor-1260	1	0.000	0.000	0.000	0.83	
	2	0.000	0.000	0.000	0.81	2.4

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
RL-12	Elevated reporting limit due to matrix interference.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-06	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-17	Internal standard area <50% of associated calibration standard internal standard area. Reanalysis yielded similar internal standard non-conformance.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 1030 in Soil	
Ignitability	NY,NH,CT,NC,ME,VA
SW-846 6010D in Soil	
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,AIHA,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
SW-846 6010D in Water	
Arsenic	NY,CT,NC,ME,NH,VA
Barium	NY,CT,ME,NC,NH,VA
Cadmium	NY,CT,ME,NC,NH,VA
Chromium	NY,CT,ME,NC,NH,VA
Lead	NY,CT,ME,NC,NH,VA
Selenium	CT,ME,NC,NH,NY,VA
Silver	CT,ME,NC,NH,NY,VA
SW-846 7470A in Water	
Mercury	CT,ME,NC,NH,NY,VA
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC,VA,PA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1221	CT,NH,NY,ME,NC,VA,PA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1232	CT,NH,NY,ME,NC,VA,PA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1242	CT,NH,NY,ME,NC,VA,PA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1248	CT,NH,NY,ME,NC,VA,PA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1254	CT,NH,NY,ME,NC,VA,PA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1260	CT,NH,NY,ME,NC,VA,PA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1262	NY,NC,VA,PA
Aroclor-1262 [2C]	NY,NC,VA,PA
Aroclor-1268	NY,NC,VA,PA
Aroclor-1268 [2C]	NY,NC,VA,PA
SW-846 8260C-D in Soil	
Acetone	CT,NH,NY,ME

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C-D in Soil	
Acrylonitrile	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
1,2-Dibromo-3-chloropropane (DBCP)	NY
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
trans-1,4-Dichloro-2-butene	NY
Dichlorodifluoromethane (Freon 12)	NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NH,NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	CT,NH,NY,ME
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl tert-Butyl Ether (MTBE)	NH,NY
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
Naphthalene	NH,NY,ME
n-Propylbenzene	NH,NY

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C-D in Soil	
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
1,2,4-Trichlorobenzene	NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,4-Trimethylbenzene	CT,NH,NY,ME
1,3,5-Trimethylbenzene	CT,NH,NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME
o-Xylene	CT,NH,NY,ME
Xylenes (total)	NH,NY
SW-846 8270D-E in Soil	
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH
Aniline	NY,NH
Anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
4-Chloro-3-methylphenol	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
4-Chlorophenylphenylether	CT,NY,NH
Chrysene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	NY,NH
1,3-Dichlorobenzene	NY,NH
1,4-Dichlorobenzene	NY,NH
3,3-Dichlorobenzidine	CT,NY,NH

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D-E in Soil	
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
4,6-Dinitro-2-methylphenol	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
Fluoranthene	CT,NY,NH
Fluorene	NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachlorocyclopentadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH
2-Nitroaniline	CT,NY,NH
3-Nitroaniline	CT,NY,NH
4-Nitroaniline	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
N-Nitrosodi-n-propylamine	CT,NY,NH
Pentachloronitrobenzene	NY
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenol	CT,NY,NH
Pyrene	CT,NY,NH
Pyridine	CT,NY,NH
1,2,4,5-Tetrachlorobenzene	NY
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH
SW-846 8270D-E in Water	
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH
Aniline	CT,NY
Anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D-E in Water	
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
4-Chloro-3-methylphenol	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
4-Chlorophenylphenylether	CT,NY,NH
Chrysene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	NY
1,3-Dichlorobenzene	NY
1,4-Dichlorobenzene	NY
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
4,6-Dinitro-2-methylphenol	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
Fluoranthene	CT,NY,NH
Fluorene	NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachlorocyclopentadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH
2-Nitroaniline	CT,NY,NH
3-Nitroaniline	CT,NY,NH
4-Nitroaniline	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D-E in Water	
4-Nitrophenol	CT,NY,NH
N-Nitrosodi-n-propylamine	CT,NY,NH
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenol	CT,NY,NH
Pyrene	CT,NY,NH
Pyridine	CT,NY,NH
1,2,4,5-Tetrachlorobenzene	NY
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH
SW-846 9095B in Soil	
Free Liquid	NY

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2022
MA	Massachusetts DEP	M-MA100	06/30/2020
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2021
NY	New York State Department of Health	10899 NELAP	04/1/2020
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2020
RI	Rhode Island Department of Health	LAO00112	12/30/2020
NC	North Carolina Div. of Water Quality	652	12/31/2020
NJ	New Jersey DEP	MA007 NELAP	06/30/2020
FL	Florida Department of Health	E871027 NELAP	06/30/2020
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2020
ME	State of Maine	2011028	06/9/2021
VA	Commonwealth of Virginia	460217	12/14/2020
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2020
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2020
NC-DW	North Carolina Department of Health	25703	07/31/2020
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2020