



Wednesday, August 10, 2022

Fibertec Project Number: A10163  
Project Identification: TRW Milford (30136112) /30136112  
Submittal Date: 08/08/2022

Ms. Stacey Hannula  
Arcadis U.S., Inc. - Novi  
28550 Cabot Drive  
Suite 500  
Novi, MI 48377

Dear Ms. Hannula,

Thank you for selecting Fibertec Environmental Services as your analytical laboratory. The samples you submitted have been analyzed in accordance with NELAC standards and the results compiled in the attached report. Any exceptions to NELAC compliance are noted in the report. These results apply only to those samples submitted. Please note TO-15 samples will be disposed of 7 calendar days after the reporting date. All other samples will be disposed of 30 days after the reporting date.

If you have any questions regarding these results or if we may be of further assistance to you, please contact me at (517) 699-0345.

Sincerely,

By Jacob Sutherland at 1:59 PM, Aug 10, 2022

For Daryl P. Strandbergh  
Laboratory Director

Enclosures

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**Analytical Laboratory Report**  
**Laboratory Project Number: A10163**  
**Laboratory Sample Number: A10163-001**

Order: A10163  
 Date: 08/10/22

Client Identification: <b>Arcadis U.S., Inc. - Novi</b>	Sample Description: <b>OW-16D2_080822</b>	Chain of Custody: <b>206299</b>
Client Project Name: <b>TRW Milford (30136112)</b>	Sample No:	Collect Date: <b>08/08/22</b>
Client Project No: <b>30136112</b>	Sample Matrix: <b>Ground Water</b>	Collect Time: <b>09:10</b>

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

**Volatile Organic Compounds (VOCs) by GC/MS**  
**Method: EPA 5030C/EPA 8260D**

**Aliquot ID: A10163-001**      **Matrix: Ground Water**  
**Description: OW-16D2\_080822**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
1. Acetone	U		µg/L	50	1.0	08/09/22	VB22H09A	08/09/22 17:16	VB22H09A	SNC
‡ 2. Acrylonitrile	U		µg/L	2.0	1.0	08/09/22	VB22H09A	08/09/22 17:16	VB22H09A	SNC
3. Benzene	U		µg/L	1.0	1.0	08/09/22	VB22H09A	08/09/22 17:16	VB22H09A	SNC
4. Bromobenzene	U		µg/L	1.0	1.0	08/09/22	VB22H09A	08/09/22 17:16	VB22H09A	SNC
5. Bromochloromethane	U		µg/L	1.0	1.0	08/09/22	VB22H09A	08/09/22 17:16	VB22H09A	SNC
6. Bromodichloromethane	U		µg/L	1.0	1.0	08/09/22	VB22H09A	08/09/22 17:16	VB22H09A	SNC
7. Bromoform	U		µg/L	1.0	1.0	08/09/22	VB22H09A	08/09/22 17:16	VB22H09A	SNC
8. Bromomethane	U		µg/L	5.0	1.0	08/09/22	VB22H09A	08/09/22 17:16	VB22H09A	SNC
9. 2-Butanone	U		µg/L	25	1.0	08/09/22	VB22H09A	08/09/22 17:16	VB22H09A	SNC
10. n-Butylbenzene	U		µg/L	1.0	1.0	08/09/22	VB22H09A	08/09/22 17:16	VB22H09A	SNC
11. sec-Butylbenzene	U		µg/L	1.0	1.0	08/09/22	VB22H09A	08/09/22 17:16	VB22H09A	SNC
12. tert-Butylbenzene	U		µg/L	1.0	1.0	08/09/22	VB22H09A	08/09/22 17:16	VB22H09A	SNC
13. Carbon Disulfide	U		µg/L	5.0	1.0	08/09/22	VB22H09A	08/09/22 17:16	VB22H09A	SNC
14. Carbon Tetrachloride	U	V+	µg/L	1.0	1.0	08/09/22	VB22H09A	08/09/22 17:16	VB22H09A	SNC
15. Chlorobenzene	U		µg/L	1.0	1.0	08/09/22	VB22H09A	08/09/22 17:16	VB22H09A	SNC
16. Chloroethane	U		µg/L	5.0	1.0	08/09/22	VB22H09A	08/09/22 17:16	VB22H09A	SNC
17. Chloroform	U		µg/L	1.0	1.0	08/09/22	VB22H09A	08/09/22 17:16	VB22H09A	SNC
18. Chloromethane	U		µg/L	5.0	1.0	08/09/22	VB22H09A	08/09/22 17:16	VB22H09A	SNC
19. 2-Chlorotoluene	U		µg/L	5.0	1.0	08/09/22	VB22H09A	08/09/22 17:16	VB22H09A	SNC
‡ 20. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/L	1.0	1.0	08/09/22	VB22H09A	08/09/22 17:16	VB22H09A	SNC
21. Dibromochloromethane	U		µg/L	5.0	1.0	08/09/22	VB22H09A	08/09/22 17:16	VB22H09A	SNC
22. Dibromomethane	U		µg/L	5.0	1.0	08/09/22	VB22H09A	08/09/22 17:16	VB22H09A	SNC
23. 1,2-Dichlorobenzene	U		µg/L	1.0	1.0	08/09/22	VB22H09A	08/09/22 17:16	VB22H09A	SNC
24. 1,3-Dichlorobenzene	U		µg/L	1.0	1.0	08/09/22	VB22H09A	08/09/22 17:16	VB22H09A	SNC
25. 1,4-Dichlorobenzene	U		µg/L	1.0	1.0	08/09/22	VB22H09A	08/09/22 17:16	VB22H09A	SNC
26. Dichlorodifluoromethane	U		µg/L	5.0	1.0	08/09/22	VB22H09A	08/09/22 17:16	VB22H09A	SNC
27. 1,1-Dichloroethane	<b>3.6</b>		µg/L	1.0	1.0	08/09/22	VB22H09A	08/09/22 17:16	VB22H09A	SNC
28. 1,2-Dichloroethane	U		µg/L	1.0	1.0	08/09/22	VB22H09A	08/09/22 17:16	VB22H09A	SNC
29. 1,1-Dichloroethene	U	L-	µg/L	1.0	1.0	08/09/22	VB22H09A	08/09/22 17:16	VB22H09A	SNC
30. cis-1,2-Dichloroethene	<b>16</b>		µg/L	1.0	1.0	08/09/22	VB22H09A	08/09/22 17:16	VB22H09A	SNC
31. trans-1,2-Dichloroethene	U		µg/L	1.0	1.0	08/09/22	VB22H09A	08/09/22 17:16	VB22H09A	SNC
32. 1,2-Dichloropropane	U		µg/L	1.0	1.0	08/09/22	VB22H09A	08/09/22 17:16	VB22H09A	SNC
33. cis-1,3-Dichloropropene	U		µg/L	0.50	1.0	08/09/22	VB22H09A	08/09/22 17:16	VB22H09A	SNC
34. trans-1,3-Dichloropropene	U		µg/L	0.50	1.0	08/09/22	VB22H09A	08/09/22 17:16	VB22H09A	SNC
35. Ethylbenzene	U		µg/L	1.0	1.0	08/09/22	VB22H09A	08/09/22 17:16	VB22H09A	SNC
36. Ethylene Dibromide	U		µg/L	1.0	1.0	08/09/22	VB22H09A	08/09/22 17:16	VB22H09A	SNC
37. 2-Hexanone	U		µg/L	50	1.0	08/09/22	VB22H09A	08/09/22 17:16	VB22H09A	SNC

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**Analytical Laboratory Report**  
**Laboratory Project Number: A10163**  
**Laboratory Sample Number: A10163-001**

Order: A10163  
 Date: 08/10/22

Client Identification: <b>Arcadis U.S., Inc. - Novi</b>	Sample Description: <b>OW-16D2_080822</b>	Chain of Custody: <b>206299</b>
Client Project Name: <b>TRW Milford (30136112)</b>	Sample No:	Collect Date: <b>08/08/22</b>
Client Project No: <b>30136112</b>	Sample Matrix: <b>Ground Water</b>	Collect Time: <b>09:10</b>

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

**Volatile Organic Compounds (VOCs) by GC/MS** Aliquot ID: **A10163-001** Matrix: **Ground Water**  
 Method: **EPA 5030C/EPA 8260D** Description: **OW-16D2\_080822**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis			
						P. Date	P. Batch	A. Date	A. Batch	Init.	
38. Isopropylbenzene	U		µg/L	5.0	1.0	08/09/22	VB22H09A	08/09/22	17:16	VB22H09A	SNC
39. 4-Methyl-2-pentanone	U		µg/L	50	1.0	08/09/22	VB22H09A	08/09/22	17:16	VB22H09A	SNC
40. Methylene Chloride	U		µg/L	5.0	1.0	08/09/22	VB22H09A	08/09/22	17:16	VB22H09A	SNC
‡ 41. 2-Methylnaphthalene	U		µg/L	5.0	1.0	08/09/22	VB22H09A	08/09/22	17:16	VB22H09A	SNC
42. MTBE	U		µg/L	5.0	1.0	08/09/22	VB22H09A	08/09/22	17:16	VB22H09A	SNC
43. Naphthalene	U		µg/L	5.0	1.0	08/09/22	VB22H09A	08/09/22	17:16	VB22H09A	SNC
44. n-Propylbenzene	U		µg/L	1.0	1.0	08/09/22	VB22H09A	08/09/22	17:16	VB22H09A	SNC
45. Styrene	U		µg/L	1.0	1.0	08/09/22	VB22H09A	08/09/22	17:16	VB22H09A	SNC
46. 1,1,1,2-Tetrachloroethane	U		µg/L	1.0	1.0	08/09/22	VB22H09A	08/09/22	17:16	VB22H09A	SNC
47. 1,1,2,2-Tetrachloroethane	U		µg/L	1.0	1.0	08/09/22	VB22H09A	08/09/22	17:16	VB22H09A	SNC
48. Tetrachloroethene	U		µg/L	1.0	1.0	08/09/22	VB22H09A	08/09/22	17:16	VB22H09A	SNC
49. Toluene	U		µg/L	1.0	1.0	08/09/22	VB22H09A	08/09/22	17:16	VB22H09A	SNC
50. 1,2,4-Trichlorobenzene	U		µg/L	5.0	1.0	08/09/22	VB22H09A	08/09/22	17:16	VB22H09A	SNC
51. 1,1,1-Trichloroethane	U		µg/L	1.0	1.0	08/09/22	VB22H09A	08/09/22	17:16	VB22H09A	SNC
‡ 52. 1,1,2-Trichloroethane	U		µg/L	1.0	1.0	08/09/22	VB22H09A	08/09/22	17:16	VB22H09A	SNC
53. Trichloroethene	U		µg/L	1.0	1.0	08/09/22	VB22H09A	08/09/22	17:16	VB22H09A	SNC
54. Trichlorofluoromethane	U		µg/L	1.0	1.0	08/09/22	VB22H09A	08/09/22	17:16	VB22H09A	SNC
55. 1,2,3-Trichloropropane	U		µg/L	1.0	1.0	08/09/22	VB22H09A	08/09/22	17:16	VB22H09A	SNC
‡ 56. 1,2,3-Trimethylbenzene	U		µg/L	1.0	1.0	08/09/22	VB22H09A	08/09/22	17:16	VB22H09A	SNC
57. 1,2,4-Trimethylbenzene	U		µg/L	1.0	1.0	08/09/22	VB22H09A	08/09/22	17:16	VB22H09A	SNC
58. 1,3,5-Trimethylbenzene	U		µg/L	1.0	1.0	08/09/22	VB22H09A	08/09/22	17:16	VB22H09A	SNC
59. Vinyl Chloride	U		µg/L	1.0	1.0	08/09/22	VB22H09A	08/09/22	17:16	VB22H09A	SNC
60. m&p-Xylene	U		µg/L	2.0	1.0	08/09/22	VB22H09A	08/09/22	17:16	VB22H09A	SNC
61. o-Xylene	U		µg/L	1.0	1.0	08/09/22	VB22H09A	08/09/22	17:16	VB22H09A	SNC
‡ 62. Xylenes	U		µg/L	3.0	1.0	08/09/22	VB22H09A	08/09/22	17:16	VB22H09A	SNC

**Surrogate Summary**

			Control Limits	Instrument	Batch	Run Time	Column	Inst. Method
4-Bromofluorobenzene(S)	<b>101</b>	%	80-120	VB	VB22H09A	8/9/2022 17:16	1	VBWAT
Dibromofluoromethane(S)	<b>96</b>	%	80-120	VB	VB22H09A	8/9/2022 17:16	1	VBWAT
1,2-Dichloroethane-d4(S)	<b>101</b>	%	80-120	VB	VB22H09A	8/9/2022 17:16	1	VBWAT
Toluene-d8(S)	<b>101</b>	%	80-120	VB	VB22H09A	8/9/2022 17:16	1	VBWAT

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**Analytical Laboratory Report**  
**Laboratory Project Number: A10163**  
**Laboratory Sample Number: A10163-002**

Order: A10163  
 Date: 08/10/22

Client Identification: <b>Arcadis U.S., Inc. - Novi</b>	Sample Description: <b>OW-16D2R1_080822</b>	Chain of Custody: <b>206299</b>
Client Project Name: <b>TRW Milford (30136112)</b>	Sample No:	Collect Date: <b>08/08/22</b>
Client Project No: <b>30136112</b>	Sample Matrix: <b>Ground Water</b>	Collect Time: <b>09:59</b>

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

**Volatile Organic Compounds (VOCs) by GC/MS**  
**Method: EPA 5030C/EPA 8260D**

**Aliquot ID: A10163-002**      **Matrix: Ground Water**  
**Description: OW-16D2R1\_080822**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
1. Acetone	U		µg/L	50	1.0	08/09/22	VB22H09A	08/09/22 17:41	VB22H09A	SNC
‡ 2. Acrylonitrile	U		µg/L	2.0	1.0	08/09/22	VB22H09A	08/09/22 17:41	VB22H09A	SNC
3. Benzene	U		µg/L	1.0	1.0	08/09/22	VB22H09A	08/09/22 17:41	VB22H09A	SNC
4. Bromobenzene	U		µg/L	1.0	1.0	08/09/22	VB22H09A	08/09/22 17:41	VB22H09A	SNC
5. Bromochloromethane	U		µg/L	1.0	1.0	08/09/22	VB22H09A	08/09/22 17:41	VB22H09A	SNC
6. Bromodichloromethane	U		µg/L	1.0	1.0	08/09/22	VB22H09A	08/09/22 17:41	VB22H09A	SNC
7. Bromoform	U		µg/L	1.0	1.0	08/09/22	VB22H09A	08/09/22 17:41	VB22H09A	SNC
8. Bromomethane	U		µg/L	5.0	1.0	08/09/22	VB22H09A	08/09/22 17:41	VB22H09A	SNC
9. 2-Butanone	U		µg/L	25	1.0	08/09/22	VB22H09A	08/09/22 17:41	VB22H09A	SNC
10. n-Butylbenzene	U		µg/L	1.0	1.0	08/09/22	VB22H09A	08/09/22 17:41	VB22H09A	SNC
11. sec-Butylbenzene	U		µg/L	1.0	1.0	08/09/22	VB22H09A	08/09/22 17:41	VB22H09A	SNC
12. tert-Butylbenzene	U		µg/L	1.0	1.0	08/09/22	VB22H09A	08/09/22 17:41	VB22H09A	SNC
13. Carbon Disulfide	U		µg/L	5.0	1.0	08/09/22	VB22H09A	08/09/22 17:41	VB22H09A	SNC
14. Carbon Tetrachloride	U	V+	µg/L	1.0	1.0	08/09/22	VB22H09A	08/09/22 17:41	VB22H09A	SNC
15. Chlorobenzene	U		µg/L	1.0	1.0	08/09/22	VB22H09A	08/09/22 17:41	VB22H09A	SNC
16. Chloroethane	U		µg/L	5.0	1.0	08/09/22	VB22H09A	08/09/22 17:41	VB22H09A	SNC
17. Chloroform	U		µg/L	1.0	1.0	08/09/22	VB22H09A	08/09/22 17:41	VB22H09A	SNC
18. Chloromethane	U		µg/L	5.0	1.0	08/09/22	VB22H09A	08/09/22 17:41	VB22H09A	SNC
19. 2-Chlorotoluene	U		µg/L	5.0	1.0	08/09/22	VB22H09A	08/09/22 17:41	VB22H09A	SNC
‡ 20. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/L	1.0	1.0	08/09/22	VB22H09A	08/09/22 17:41	VB22H09A	SNC
21. Dibromochloromethane	U		µg/L	5.0	1.0	08/09/22	VB22H09A	08/09/22 17:41	VB22H09A	SNC
22. Dibromomethane	U		µg/L	5.0	1.0	08/09/22	VB22H09A	08/09/22 17:41	VB22H09A	SNC
23. 1,2-Dichlorobenzene	U		µg/L	1.0	1.0	08/09/22	VB22H09A	08/09/22 17:41	VB22H09A	SNC
24. 1,3-Dichlorobenzene	U		µg/L	1.0	1.0	08/09/22	VB22H09A	08/09/22 17:41	VB22H09A	SNC
25. 1,4-Dichlorobenzene	U		µg/L	1.0	1.0	08/09/22	VB22H09A	08/09/22 17:41	VB22H09A	SNC
26. Dichlorodifluoromethane	U		µg/L	5.0	1.0	08/09/22	VB22H09A	08/09/22 17:41	VB22H09A	SNC
27. 1,1-Dichloroethane	<b>2.2</b>		µg/L	1.0	1.0	08/09/22	VB22H09A	08/09/22 17:41	VB22H09A	SNC
28. 1,2-Dichloroethane	U		µg/L	1.0	1.0	08/09/22	VB22H09A	08/09/22 17:41	VB22H09A	SNC
29. 1,1-Dichloroethene	U	L-	µg/L	1.0	1.0	08/09/22	VB22H09A	08/09/22 17:41	VB22H09A	SNC
30. cis-1,2-Dichloroethene	<b>20</b>		µg/L	1.0	1.0	08/09/22	VB22H09A	08/09/22 17:41	VB22H09A	SNC
31. trans-1,2-Dichloroethene	<b>1.3</b>		µg/L	1.0	1.0	08/09/22	VB22H09A	08/09/22 17:41	VB22H09A	SNC
32. 1,2-Dichloropropane	U		µg/L	1.0	1.0	08/09/22	VB22H09A	08/09/22 17:41	VB22H09A	SNC
33. cis-1,3-Dichloropropene	U		µg/L	0.50	1.0	08/09/22	VB22H09A	08/09/22 17:41	VB22H09A	SNC
34. trans-1,3-Dichloropropene	U		µg/L	0.50	1.0	08/09/22	VB22H09A	08/09/22 17:41	VB22H09A	SNC
35. Ethylbenzene	U		µg/L	1.0	1.0	08/09/22	VB22H09A	08/09/22 17:41	VB22H09A	SNC
36. Ethylene Dibromide	U		µg/L	1.0	1.0	08/09/22	VB22H09A	08/09/22 17:41	VB22H09A	SNC
37. 2-Hexanone	U		µg/L	50	1.0	08/09/22	VB22H09A	08/09/22 17:41	VB22H09A	SNC

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