Fibertec environmental services

Tuesday, September 13, 2022

Fibertec Project Number:	A10763
Project Identification:	TRW Milford (30136112) /30136112
Submittal Date:	09/08/2022

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,

Bailey Welch

By Bailey Welch at 4:59 PM, Sep 13, 2022

For Daryl P. Strandbergh
Laboratory Director

Enclosures

Fibertec environmental services

Analytical Laboratory Report
Laboratory Project Number: A10763
Laboratory Sample Number: A10763-001

Order: A10763
Date: 09/13/22

Client Identification:	**Arcadis U.S., Inc. - Novi**	Sample Description:	**OW-16D2_090822**	Chain of Custody:	**212794**
Client Project Name:	**TRW Milford (30136112)**	Sample No:		Collect Date:	**09/08/22**
Client Project No:	**30136112**	Sample Matrix:	**Ground Water**	Collect Time:	**09:20**

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: A10763-001** **Matrix: Ground Water**
Method: EPA 5030C/EPA 8260D **Description: OW-16D2_090822**

							Preparation		Analysis		
	Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
	1. Acetone	U		µg/L	50	1.0	09/09/22	VM22I09A	09/09/22 13:41	VM22I09A	SNC
‡	2. Acrylonitrile	U		µg/L	2.0	1.0	09/09/22	VM22I09A	09/09/22 13:41	VM22I09A	SNC
	3. Benzene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 13:41	VM22I09A	SNC
	4. Bromobenzene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 13:41	VM22I09A	SNC
	5. Bromochloromethane	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 13:41	VM22I09A	SNC
	6. Bromodichloromethane	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 13:41	VM22I09A	SNC
‡	7. Bromoform (SIM)	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 13:41	VM22I09A	SNC
	8. Bromomethane	U		µg/L	5.0	1.0	09/09/22	VM22I09A	09/09/22 13:41	VM22I09A	SNC
	9. 2-Butanone	U		µg/L	25	1.0	09/09/22	VM22I09A	09/09/22 13:41	VM22I09A	SNC
	10. n-Butylbenzene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 13:41	VM22I09A	SNC
	11. sec-Butylbenzene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 13:41	VM22I09A	SNC
	12. tert-Butylbenzene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 13:41	VM22I09A	SNC
	13. Carbon Disulfide	U		µg/L	5.0	1.0	09/09/22	VM22I09A	09/09/22 13:41	VM22I09A	SNC
	14. Carbon Tetrachloride	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 13:41	VM22I09A	SNC
	15. Chlorobenzene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 13:41	VM22I09A	SNC
	16. Chloroethane	U		µg/L	5.0	1.0	09/09/22	VM22I09A	09/09/22 13:41	VM22I09A	SNC
	17. Chloroform	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 13:41	VM22I09A	SNC
	18. Chloromethane	U		µg/L	5.0	1.0	09/09/22	VM22I09A	09/09/22 13:41	VM22I09A	SNC
	19. 2-Chlorotoluene	U		µg/L	5.0	1.0	09/09/22	VM22I09A	09/09/22 13:41	VM22I09A	SNC
‡	20. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 13:41	VM22I09A	SNC
	21. Dibromochloromethane	U		µg/L	5.0	1.0	09/09/22	VM22I09A	09/09/22 13:41	VM22I09A	SNC
	22. Dibromomethane	U		µg/L	5.0	1.0	09/09/22	VM22I09A	09/09/22 13:41	VM22I09A	SNC
	23. 1,2-Dichlorobenzene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 13:41	VM22I09A	SNC
	24. 1,3-Dichlorobenzene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 13:41	VM22I09A	SNC
	25. 1,4-Dichlorobenzene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 13:41	VM22I09A	SNC
	26. Dichlorodifluoromethane	U		µg/L	5.0	1.0	09/09/22	VM22I09A	09/09/22 13:41	VM22I09A	SNC
	27. 1,1-Dichloroethane	**3.9**		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 13:41	VM22I09A	SNC
	28. 1,2-Dichloroethane	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 13:41	VM22I09A	SNC
	29. 1,1-Dichloroethene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 13:41	VM22I09A	SNC
	30. cis-1,2-Dichloroethene	**21**		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 13:41	VM22I09A	SNC
	31. trans-1,2-Dichloroethene	**1.8**		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 13:41	VM22I09A	SNC
	32. 1,2-Dichloropropane	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 13:41	VM22I09A	SNC
	33. cis-1,3-Dichloropropene	U		µg/L	0.50	1.0	09/09/22	VM22I09A	09/09/22 13:41	VM22I09A	SNC
	34. trans-1,3-Dichloropropene	U		µg/L	0.50	1.0	09/09/22	VM22I09A	09/09/22 13:41	VM22I09A	SNC
	35. Ethylbenzene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 13:41	VM22I09A	SNC
	36. Ethylene Dibromide	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 13:41	VM22I09A	SNC
	37. 2-Hexanone	U		µg/L	50	1.0	09/09/22	VM22I09A	09/09/22 13:41	VM22I09A	SNC

Fibertec environmental services

Analytical Laboratory Report
Laboratory Project Number: A10763
Laboratory Sample Number: A10763-001

Order: A10763
Date: 09/13/22

Client Identification:	**Arcadis U.S., Inc. - Novi**	Sample Description:	**OW-16D2_090822**	Chain of Custody:	**212794**
Client Project Name:	**TRW Milford (30136112)**	Sample No:		Collect Date:	**09/08/22**
Client Project No:	**30136112**	Sample Matrix:	**Ground Water**	Collect Time:	**09:20**

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: A10763-001** **Matrix: Ground Water**
Method: EPA 5030C/EPA 8260D **Description: OW-16D2_090822**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
38. Isopropylbenzene	U		µg/L	5.0	1.0	09/09/22	VM22I09A	09/09/22 13:41	VM22I09A	SNC
39. 4-Methyl-2-pentanone	U		µg/L	50	1.0	09/09/22	VM22I09A	09/09/22 13:41	VM22I09A	SNC
40. Methylene Chloride	U		µg/L	5.0	1.0	09/09/22	VM22I09A	09/09/22 13:41	VM22I09A	SNC
‡ 41. 2-Methylnaphthalene	U		µg/L	5.0	1.0	09/09/22	VM22I09A	09/09/22 13:41	VM22I09A	SNC
42. MTBE	U		µg/L	5.0	1.0	09/09/22	VM22I09A	09/09/22 13:41	VM22I09A	SNC
43. Naphthalene	U		µg/L	5.0	1.0	09/09/22	VM22I09A	09/09/22 13:41	VM22I09A	SNC
44. n-Propylbenzene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 13:41	VM22I09A	SNC
45. Styrene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 13:41	VM22I09A	SNC
46. 1,1,1,2-Tetrachloroethane	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 13:41	VM22I09A	SNC
47. 1,1,2,2-Tetrachloroethane	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 13:41	VM22I09A	SNC
48. Tetrachloroethene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 13:41	VM22I09A	SNC
49. Toluene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 13:41	VM22I09A	SNC
50. 1,2,4-Trichlorobenzene	U		µg/L	5.0	1.0	09/09/22	VM22I09A	09/09/22 13:41	VM22I09A	SNC
51. 1,1,1-Trichloroethane	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 13:41	VM22I09A	SNC
‡ 52. 1,1,2-Trichloroethane	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 13:41	VM22I09A	SNC
53. Trichloroethene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 13:41	VM22I09A	SNC
54. Trichlorofluoromethane	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 13:41	VM22I09A	SNC
55. 1,2,3-Trichloropropane	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 13:41	VM22I09A	SNC
‡ 56. 1,2,3-Trimethylbenzene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 13:41	VM22I09A	SNC
57. 1,2,4-Trimethylbenzene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 13:41	VM22I09A	SNC
58. 1,3,5-Trimethylbenzene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 13:41	VM22I09A	SNC
59. Vinyl Chloride	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 13:41	VM22I09A	SNC
60. m&p-Xylene	U		µg/L	2.0	1.0	09/09/22	VM22I09A	09/09/22 13:41	VM22I09A	SNC
61. o-Xylene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 13:41	VM22I09A	SNC
‡ 62. Xylenes	U		µg/L	3.0	1.0	09/09/22	VM22I09A	09/09/22 13:41	VM22I09A	SNC

Fibertec environmental services

Analytical Laboratory Report
Laboratory Project Number: A10763
Laboratory Sample Number: A10763-002

Order: A10763
Date: 09/13/22

Client Identification:	**Arcadis U.S., Inc. - Novi**	Sample Description:	**OW-16D2R1_090822**	Chain of Custody:	**212794**
Client Project Name:	**TRW Milford (30136112)**	Sample No:		Collect Date:	**09/08/22**
Client Project No:	**30136112**	Sample Matrix:	**Ground Water**	Collect Time:	**10:07**

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: A10763-002** **Matrix: Ground Water**
Method: EPA 5030C/EPA 8260D **Description: OW-16D2R1_090822**

	Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
	1. Acetone	U		µg/L	50	1.0	09/09/22	VM22I09A	09/09/22 14:10	VM22I09A	SNC
‡	2. Acrylonitrile	U		µg/L	2.0	1.0	09/09/22	VM22I09A	09/09/22 14:10	VM22I09A	SNC
	3. Benzene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:10	VM22I09A	SNC
	4. Bromobenzene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:10	VM22I09A	SNC
	5. Bromochloromethane	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:10	VM22I09A	SNC
	6. Bromodichloromethane	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:10	VM22I09A	SNC
‡	7. Bromoform (SIM)	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:10	VM22I09A	SNC
	8. Bromomethane	U		µg/L	5.0	1.0	09/09/22	VM22I09A	09/09/22 14:10	VM22I09A	SNC
	9. 2-Butanone	U		µg/L	25	1.0	09/09/22	VM22I09A	09/09/22 14:10	VM22I09A	SNC
	10. n-Butylbenzene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:10	VM22I09A	SNC
	11. sec-Butylbenzene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:10	VM22I09A	SNC
	12. tert-Butylbenzene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:10	VM22I09A	SNC
	13. Carbon Disulfide	U		µg/L	5.0	1.0	09/09/22	VM22I09A	09/09/22 14:10	VM22I09A	SNC
	14. Carbon Tetrachloride	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:10	VM22I09A	SNC
	15. Chlorobenzene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:10	VM22I09A	SNC
	16. Chloroethane	U		µg/L	5.0	1.0	09/09/22	VM22I09A	09/09/22 14:10	VM22I09A	SNC
	17. Chloroform	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:10	VM22I09A	SNC
	18. Chloromethane	U		µg/L	5.0	1.0	09/09/22	VM22I09A	09/09/22 14:10	VM22I09A	SNC
	19. 2-Chlorotoluene	U		µg/L	5.0	1.0	09/09/22	VM22I09A	09/09/22 14:10	VM22I09A	SNC
‡	20. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:10	VM22I09A	SNC
	21. Dibromochloromethane	U		µg/L	5.0	1.0	09/09/22	VM22I09A	09/09/22 14:10	VM22I09A	SNC
	22. Dibromomethane	U		µg/L	5.0	1.0	09/09/22	VM22I09A	09/09/22 14:10	VM22I09A	SNC
	23. 1,2-Dichlorobenzene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:10	VM22I09A	SNC
	24. 1,3-Dichlorobenzene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:10	VM22I09A	SNC
	25. 1,4-Dichlorobenzene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:10	VM22I09A	SNC
	26. Dichlorodifluoromethane	U		µg/L	5.0	1.0	09/09/22	VM22I09A	09/09/22 14:10	VM22I09A	SNC
	27. 1,1-Dichloroethane	**2.5**		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:10	VM22I09A	SNC
	28. 1,2-Dichloroethane	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:10	VM22I09A	SNC
	29. 1,1-Dichloroethene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:10	VM22I09A	SNC
	30. cis-1,2-Dichloroethene	**22**		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:10	VM22I09A	SNC
	31. trans-1,2-Dichloroethene	**1.4**		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:10	VM22I09A	SNC
	32. 1,2-Dichloropropane	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:10	VM22I09A	SNC
	33. cis-1,3-Dichloropropene	U		µg/L	0.50	1.0	09/09/22	VM22I09A	09/09/22 14:10	VM22I09A	SNC
	34. trans-1,3-Dichloropropene	U		µg/L	0.50	1.0	09/09/22	VM22I09A	09/09/22 14:10	VM22I09A	SNC
	35. Ethylbenzene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:10	VM22I09A	SNC
	36. Ethylene Dibromide	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:10	VM22I09A	SNC
	37. 2-Hexanone	U		µg/L	50	1.0	09/09/22	VM22I09A	09/09/22 14:10	VM22I09A	SNC

Fibertec environmental services

Analytical Laboratory Report
Laboratory Project Number: A10763
Laboratory Sample Number: A10763-002

Order: A10763
Date: 09/13/22

Client Identification:	**Arcadis U.S., Inc. - Novi**	Sample Description:	**OW-16D2R1_090822**	Chain of Custody:	**212794**
Client Project Name:	**TRW Milford (30136112)**	Sample No:		Collect Date:	**09/08/22**
Client Project No:	**30136112**	Sample Matrix:	**Ground Water**	Collect Time:	**10:07**

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: A10763-002** **Matrix: Ground Water**
Method: EPA 5030C/EPA 8260D **Description: OW-16D2R1_090822**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
38. Isopropylbenzene	U		µg/L	5.0	1.0	09/09/22	VM22I09A	09/09/22 14:10	VM22I09A	SNC
39. 4-Methyl-2-pentanone	U		µg/L	50	1.0	09/09/22	VM22I09A	09/09/22 14:10	VM22I09A	SNC
40. Methylene Chloride	U		µg/L	5.0	1.0	09/09/22	VM22I09A	09/09/22 14:10	VM22I09A	SNC
‡ 41. 2-Methylnaphthalene	U		µg/L	5.0	1.0	09/09/22	VM22I09A	09/09/22 14:10	VM22I09A	SNC
42. MTBE	U		µg/L	5.0	1.0	09/09/22	VM22I09A	09/09/22 14:10	VM22I09A	SNC
43. Naphthalene	U		µg/L	5.0	1.0	09/09/22	VM22I09A	09/09/22 14:10	VM22I09A	SNC
44. n-Propylbenzene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:10	VM22I09A	SNC
45. Styrene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:10	VM22I09A	SNC
46. 1,1,1,2-Tetrachloroethane	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:10	VM22I09A	SNC
47. 1,1,2,2-Tetrachloroethane	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:10	VM22I09A	SNC
48. Tetrachloroethene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:10	VM22I09A	SNC
49. Toluene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:10	VM22I09A	SNC
50. 1,2,4-Trichlorobenzene	U		µg/L	5.0	1.0	09/09/22	VM22I09A	09/09/22 14:10	VM22I09A	SNC
51. 1,1,1-Trichloroethane	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:10	VM22I09A	SNC
‡ 52. 1,1,2-Trichloroethane	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:10	VM22I09A	SNC
53. Trichloroethene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:10	VM22I09A	SNC
54. Trichlorofluoromethane	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:10	VM22I09A	SNC
55. 1,2,3-Trichloropropane	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:10	VM22I09A	SNC
‡ 56. 1,2,3-Trimethylbenzene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:10	VM22I09A	SNC
57. 1,2,4-Trimethylbenzene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:10	VM22I09A	SNC
58. 1,3,5-Trimethylbenzene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:10	VM22I09A	SNC
59. Vinyl Chloride	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:10	VM22I09A	SNC
60. m&p-Xylene	U		µg/L	2.0	1.0	09/09/22	VM22I09A	09/09/22 14:10	VM22I09A	SNC
61. o-Xylene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:10	VM22I09A	SNC
‡ 62. Xylenes	U		µg/L	3.0	1.0	09/09/22	VM22I09A	09/09/22 14:10	VM22I09A	SNC

Fibertec environmental services

Analytical Laboratory Report
Laboratory Project Number: A10763
Laboratory Sample Number: A10763-003

Order: A10763
Date: 09/13/22

Client Identification:	**Arcadis U.S., Inc. - Novi**	Sample Description:	**OW-16D2R2_090822**	Chain of Custody:	**212794**
Client Project Name:	**TRW Milford (30136112)**	Sample No:		Collect Date:	**09/08/22**
Client Project No:	**30136112**	Sample Matrix:	**Ground Water**	Collect Time:	**10:55**

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: A10763-003** **Matrix: Ground Water**
Method: EPA 5030C/EPA 8260D **Description: OW-16D2R2_090822**

	Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
	1. Acetone	U		µg/L	50	1.0	09/09/22	VM22I09A	09/09/22 14:38	VM22I09A	SNC
‡	2. Acrylonitrile	U		µg/L	2.0	1.0	09/09/22	VM22I09A	09/09/22 14:38	VM22I09A	SNC
	3. Benzene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:38	VM22I09A	SNC
	4. Bromobenzene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:38	VM22I09A	SNC
	5. Bromochloromethane	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:38	VM22I09A	SNC
	6. Bromodichloromethane	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:38	VM22I09A	SNC
‡	7. Bromoform (SIM)	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:38	VM22I09A	SNC
	8. Bromomethane	U		µg/L	5.0	1.0	09/09/22	VM22I09A	09/09/22 14:38	VM22I09A	SNC
	9. 2-Butanone	U		µg/L	25	1.0	09/09/22	VM22I09A	09/09/22 14:38	VM22I09A	SNC
	10. n-Butylbenzene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:38	VM22I09A	SNC
	11. sec-Butylbenzene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:38	VM22I09A	SNC
	12. tert-Butylbenzene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:38	VM22I09A	SNC
	13. Carbon Disulfide	U		µg/L	5.0	1.0	09/09/22	VM22I09A	09/09/22 14:38	VM22I09A	SNC
	14. Carbon Tetrachloride	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:38	VM22I09A	SNC
	15. Chlorobenzene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:38	VM22I09A	SNC
	16. Chloroethane	U		µg/L	5.0	1.0	09/09/22	VM22I09A	09/09/22 14:38	VM22I09A	SNC
	17. Chloroform	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:38	VM22I09A	SNC
	18. Chloromethane	U		µg/L	5.0	1.0	09/09/22	VM22I09A	09/09/22 14:38	VM22I09A	SNC
	19. 2-Chlorotoluene	U		µg/L	5.0	1.0	09/09/22	VM22I09A	09/09/22 14:38	VM22I09A	SNC
‡	20. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:38	VM22I09A	SNC
	21. Dibromochloromethane	U		µg/L	5.0	1.0	09/09/22	VM22I09A	09/09/22 14:38	VM22I09A	SNC
	22. Dibromomethane	U		µg/L	5.0	1.0	09/09/22	VM22I09A	09/09/22 14:38	VM22I09A	SNC
	23. 1,2-Dichlorobenzene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:38	VM22I09A	SNC
	24. 1,3-Dichlorobenzene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:38	VM22I09A	SNC
	25. 1,4-Dichlorobenzene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:38	VM22I09A	SNC
	26. Dichlorodifluoromethane	U		µg/L	5.0	1.0	09/09/22	VM22I09A	09/09/22 14:38	VM22I09A	SNC
	27. 1,1-Dichloroethane	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:38	VM22I09A	SNC
	28. 1,2-Dichloroethane	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:38	VM22I09A	SNC
	29. 1,1-Dichloroethene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:38	VM22I09A	SNC
	30. cis-1,2-Dichloroethene	**12**		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:38	VM22I09A	SNC
	31. trans-1,2-Dichloroethene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:38	VM22I09A	SNC
	32. 1,2-Dichloropropane	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:38	VM22I09A	SNC
	33. cis-1,3-Dichloropropene	U		µg/L	0.50	1.0	09/09/22	VM22I09A	09/09/22 14:38	VM22I09A	SNC
	34. trans-1,3-Dichloropropene	U		µg/L	0.50	1.0	09/09/22	VM22I09A	09/09/22 14:38	VM22I09A	SNC
	35. Ethylbenzene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:38	VM22I09A	SNC
	36. Ethylene Dibromide	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:38	VM22I09A	SNC
	37. 2-Hexanone	U		µg/L	50	1.0	09/09/22	VM22I09A	09/09/22 14:38	VM22I09A	SNC

Fibertec environmental services

Analytical Laboratory Report
Laboratory Project Number: A10763
Laboratory Sample Number: A10763-003

Order: A10763
Date: 09/13/22

Client Identification:	**Arcadis U.S., Inc. - Novi**	Sample Description:	**OW-16D2R2_090822**	Chain of Custody:	**212794**
Client Project Name:	**TRW Milford (30136112)**	Sample No:		Collect Date:	**09/08/22**
Client Project No:	**30136112**	Sample Matrix:	**Ground Water**	Collect Time:	**10:55**

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: A10763-003** **Matrix: Ground Water**
Method: EPA 5030C/EPA 8260D **Description: OW-16D2R2_090822**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
38. Isopropylbenzene	U		µg/L	5.0	1.0	09/09/22	VM22I09A	09/09/22 14:38	VM22I09A	SNC
39. 4-Methyl-2-pentanone	U		µg/L	50	1.0	09/09/22	VM22I09A	09/09/22 14:38	VM22I09A	SNC
40. Methylene Chloride	U		µg/L	5.0	1.0	09/09/22	VM22I09A	09/09/22 14:38	VM22I09A	SNC
‡ 41. 2-Methylnaphthalene	U		µg/L	5.0	1.0	09/09/22	VM22I09A	09/09/22 14:38	VM22I09A	SNC
42. MTBE	U		µg/L	5.0	1.0	09/09/22	VM22I09A	09/09/22 14:38	VM22I09A	SNC
43. Naphthalene	U		µg/L	5.0	1.0	09/09/22	VM22I09A	09/09/22 14:38	VM22I09A	SNC
44. n-Propylbenzene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:38	VM22I09A	SNC
45. Styrene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:38	VM22I09A	SNC
46. 1,1,1,2-Tetrachloroethane	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:38	VM22I09A	SNC
47. 1,1,2,2-Tetrachloroethane	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:38	VM22I09A	SNC
48. Tetrachloroethene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:38	VM22I09A	SNC
49. Toluene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:38	VM22I09A	SNC
50. 1,2,4-Trichlorobenzene	U		µg/L	5.0	1.0	09/09/22	VM22I09A	09/09/22 14:38	VM22I09A	SNC
51. 1,1,1-Trichloroethane	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:38	VM22I09A	SNC
‡ 52. 1,1,2-Trichloroethane	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:38	VM22I09A	SNC
53. Trichloroethene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:38	VM22I09A	SNC
54. Trichlorofluoromethane	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:38	VM22I09A	SNC
55. 1,2,3-Trichloropropane	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:38	VM22I09A	SNC
‡ 56. 1,2,3-Trimethylbenzene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:38	VM22I09A	SNC
57. 1,2,4-Trimethylbenzene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:38	VM22I09A	SNC
58. 1,3,5-Trimethylbenzene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:38	VM22I09A	SNC
59. Vinyl Chloride	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:38	VM22I09A	SNC
60. m&p-Xylene	U		µg/L	2.0	1.0	09/09/22	VM22I09A	09/09/22 14:38	VM22I09A	SNC
61. o-Xylene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 14:38	VM22I09A	SNC
‡ 62. Xylenes	U		µg/L	3.0	1.0	09/09/22	VM22I09A	09/09/22 14:38	VM22I09A	SNC

Fibertec environmental services

Analytical Laboratory Report
Laboratory Project Number: A10763
Laboratory Sample Number: A10763-004

Order: A10763
Date: 09/13/22

Client Identification:	**Arcadis U.S., Inc. - Novi**	Sample Description:	**TRIP BLANK**	Chain of Custody:	**212794**
Client Project Name:	**TRW Milford (30136112)**	Sample No:		Collect Date:	**09/08/22**
Client Project No:	**30136112**	Sample Matrix:	**Blank: Trip**	Collect Time:	**NA**

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: A10763-004** **Matrix: Blank: Trip**
Method: EPA 5030C/EPA 8260D **Description: TRIP BLANK**

							Preparation		Analysis		
	Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
	1. Acetone	U		µg/L	50	1.0	09/09/22	VM22I09A	09/09/22 12:16	VM22I09A	SNC
‡	2. Acrylonitrile	U		µg/L	2.0	1.0	09/09/22	VM22I09A	09/09/22 12:16	VM22I09A	SNC
	3. Benzene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:16	VM22I09A	SNC
	4. Bromobenzene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:16	VM22I09A	SNC
	5. Bromochloromethane	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:16	VM22I09A	SNC
	6. Bromodichloromethane	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:16	VM22I09A	SNC
‡	7. Bromoform (SIM)	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:16	VM22I09A	SNC
	8. Bromomethane	U		µg/L	5.0	1.0	09/09/22	VM22I09A	09/09/22 12:16	VM22I09A	SNC
	9. 2-Butanone	U		µg/L	25	1.0	09/09/22	VM22I09A	09/09/22 12:16	VM22I09A	SNC
	10. n-Butylbenzene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:16	VM22I09A	SNC
	11. sec-Butylbenzene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:16	VM22I09A	SNC
	12. tert-Butylbenzene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:16	VM22I09A	SNC
	13. Carbon Disulfide	U		µg/L	5.0	1.0	09/09/22	VM22I09A	09/09/22 12:16	VM22I09A	SNC
	14. Carbon Tetrachloride	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:16	VM22I09A	SNC
	15. Chlorobenzene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:16	VM22I09A	SNC
	16. Chloroethane	U		µg/L	5.0	1.0	09/09/22	VM22I09A	09/09/22 12:16	VM22I09A	SNC
	17. Chloroform	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:16	VM22I09A	SNC
	18. Chloromethane	U		µg/L	5.0	1.0	09/09/22	VM22I09A	09/09/22 12:16	VM22I09A	SNC
	19. 2-Chlorotoluene	U		µg/L	5.0	1.0	09/09/22	VM22I09A	09/09/22 12:16	VM22I09A	SNC
‡	20. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:16	VM22I09A	SNC
	21. Dibromochloromethane	U		µg/L	5.0	1.0	09/09/22	VM22I09A	09/09/22 12:16	VM22I09A	SNC
	22. Dibromomethane	U		µg/L	5.0	1.0	09/09/22	VM22I09A	09/09/22 12:16	VM22I09A	SNC
	23. 1,2-Dichlorobenzene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:16	VM22I09A	SNC
	24. 1,3-Dichlorobenzene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:16	VM22I09A	SNC
	25. 1,4-Dichlorobenzene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:16	VM22I09A	SNC
	26. Dichlorodifluoromethane	U		µg/L	5.0	1.0	09/09/22	VM22I09A	09/09/22 12:16	VM22I09A	SNC
	27. 1,1-Dichloroethane	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:16	VM22I09A	SNC
	28. 1,2-Dichloroethane	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:16	VM22I09A	SNC
	29. 1,1-Dichloroethene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:16	VM22I09A	SNC
	30. cis-1,2-Dichloroethene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:16	VM22I09A	SNC
	31. trans-1,2-Dichloroethene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:16	VM22I09A	SNC
	32. 1,2-Dichloropropane	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:16	VM22I09A	SNC
	33. cis-1,3-Dichloropropene	U		µg/L	0.50	1.0	09/09/22	VM22I09A	09/09/22 12:16	VM22I09A	SNC
	34. trans-1,3-Dichloropropene	U		µg/L	0.50	1.0	09/09/22	VM22I09A	09/09/22 12:16	VM22I09A	SNC
	35. Ethylbenzene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:16	VM22I09A	SNC
	36. Ethylene Dibromide	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:16	VM22I09A	SNC
	37. 2-Hexanone	U		µg/L	50	1.0	09/09/22	VM22I09A	09/09/22 12:16	VM22I09A	SNC

Fibertec environmental services

Analytical Laboratory Report
Laboratory Project Number: A10763
Laboratory Sample Number: A10763-004

Order: A10763
Date: 09/13/22

Client Identification:	**Arcadis U.S., Inc. - Novi**	Sample Description:	**TRIP BLANK**	Chain of Custody:	**212794**
Client Project Name:	**TRW Milford (30136112)**	Sample No:		Collect Date:	**09/08/22**
Client Project No:	**30136112**	Sample Matrix:	**Blank: Trip**	Collect Time:	**NA**

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: A10763-004** **Matrix: Blank: Trip**
Method: EPA 5030C/EPA 8260D **Description: TRIP BLANK**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
38. Isopropylbenzene	U		µg/L	5.0	1.0	09/09/22	VM22I09A	09/09/22 12:16	VM22I09A	SNC
39. 4-Methyl-2-pentanone	U		µg/L	50	1.0	09/09/22	VM22I09A	09/09/22 12:16	VM22I09A	SNC
40. Methylene Chloride	U		µg/L	5.0	1.0	09/09/22	VM22I09A	09/09/22 12:16	VM22I09A	SNC
‡ 41. 2-Methylnaphthalene	U		µg/L	5.0	1.0	09/09/22	VM22I09A	09/09/22 12:16	VM22I09A	SNC
42. MTBE	U		µg/L	5.0	1.0	09/09/22	VM22I09A	09/09/22 12:16	VM22I09A	SNC
43. Naphthalene	U		µg/L	5.0	1.0	09/09/22	VM22I09A	09/09/22 12:16	VM22I09A	SNC
44. n-Propylbenzene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:16	VM22I09A	SNC
45. Styrene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:16	VM22I09A	SNC
46. 1,1,1,2-Tetrachloroethane	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:16	VM22I09A	SNC
47. 1,1,2,2-Tetrachloroethane	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:16	VM22I09A	SNC
48. Tetrachloroethene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:16	VM22I09A	SNC
49. Toluene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:16	VM22I09A	SNC
50. 1,2,4-Trichlorobenzene	U		µg/L	5.0	1.0	09/09/22	VM22I09A	09/09/22 12:16	VM22I09A	SNC
51. 1,1,1-Trichloroethane	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:16	VM22I09A	SNC
‡ 52. 1,1,2-Trichloroethane	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:16	VM22I09A	SNC
53. Trichloroethene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:16	VM22I09A	SNC
54. Trichlorofluoromethane	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:16	VM22I09A	SNC
55. 1,2,3-Trichloropropane	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:16	VM22I09A	SNC
‡ 56. 1,2,3-Trimethylbenzene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:16	VM22I09A	SNC
57. 1,2,4-Trimethylbenzene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:16	VM22I09A	SNC
58. 1,3,5-Trimethylbenzene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:16	VM22I09A	SNC
59. Vinyl Chloride	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:16	VM22I09A	SNC
60. m&p-Xylene	U		µg/L	2.0	1.0	09/09/22	VM22I09A	09/09/22 12:16	VM22I09A	SNC
61. o-Xylene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:16	VM22I09A	SNC
‡ 62. Xylenes	U		µg/L	3.0	1.0	09/09/22	VM22I09A	09/09/22 12:16	VM22I09A	SNC

Fibertec environmental services

Analytical Laboratory Report
Laboratory Project Number: A10763
Laboratory Sample Number: A10763-005

Order: A10763
Date: 09/13/22

Client Identification:	**Arcadis U.S., Inc. - Novi**	Sample Description:	**FIELD BLANK_090822**	Chain of Custody:	**212794**
Client Project Name:	**TRW Milford (30136112)**	Sample No:		Collect Date:	**09/08/22**
Client Project No:	**30136112**	Sample Matrix:	**Blank: Field**	Collect Time:	**10:40**

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: A10763-005** **Matrix: Blank: Field**
Method: EPA 5030C/EPA 8260D **Description: FIELD BLANK_090822**

							Preparation		Analysis		
	Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
	1. Acetone	U		µg/L	50	1.0	09/09/22	VM22I09A	09/09/22 12:44	VM22I09A	SNC
‡	2. Acrylonitrile	U		µg/L	2.0	1.0	09/09/22	VM22I09A	09/09/22 12:44	VM22I09A	SNC
	3. Benzene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:44	VM22I09A	SNC
	4. Bromobenzene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:44	VM22I09A	SNC
	5. Bromochloromethane	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:44	VM22I09A	SNC
	6. Bromodichloromethane	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:44	VM22I09A	SNC
‡	7. Bromoform (SIM)	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:44	VM22I09A	KYD
	8. Bromomethane	U		µg/L	5.0	1.0	09/09/22	VM22I09A	09/09/22 12:44	VM22I09A	SNC
	9. 2-Butanone	U		µg/L	25	1.0	09/09/22	VM22I09A	09/09/22 12:44	VM22I09A	SNC
	10. n-Butylbenzene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:44	VM22I09A	SNC
	11. sec-Butylbenzene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:44	VM22I09A	SNC
	12. tert-Butylbenzene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:44	VM22I09A	SNC
	13. Carbon Disulfide	U		µg/L	5.0	1.0	09/09/22	VM22I09A	09/09/22 12:44	VM22I09A	SNC
	14. Carbon Tetrachloride	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:44	VM22I09A	SNC
	15. Chlorobenzene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:44	VM22I09A	SNC
	16. Chloroethane	U		µg/L	5.0	1.0	09/09/22	VM22I09A	09/09/22 12:44	VM22I09A	SNC
	17. Chloroform	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:44	VM22I09A	SNC
	18. Chloromethane	U		µg/L	5.0	1.0	09/09/22	VM22I09A	09/09/22 12:44	VM22I09A	SNC
	19. 2-Chlorotoluene	U		µg/L	5.0	1.0	09/09/22	VM22I09A	09/09/22 12:44	VM22I09A	SNC
‡	20. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:44	VM22I09A	SNC
	21. Dibromochloromethane	U		µg/L	5.0	1.0	09/09/22	VM22I09A	09/09/22 12:44	VM22I09A	SNC
	22. Dibromomethane	U		µg/L	5.0	1.0	09/09/22	VM22I09A	09/09/22 12:44	VM22I09A	SNC
	23. 1,2-Dichlorobenzene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:44	VM22I09A	SNC
	24. 1,3-Dichlorobenzene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:44	VM22I09A	SNC
	25. 1,4-Dichlorobenzene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:44	VM22I09A	SNC
	26. Dichlorodifluoromethane	U		µg/L	5.0	1.0	09/09/22	VM22I09A	09/09/22 12:44	VM22I09A	SNC
	27. 1,1-Dichloroethane	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:44	VM22I09A	SNC
	28. 1,2-Dichloroethane	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:44	VM22I09A	SNC
	29. 1,1-Dichloroethene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:44	VM22I09A	SNC
	30. cis-1,2-Dichloroethene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:44	VM22I09A	SNC
	31. trans-1,2-Dichloroethene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:44	VM22I09A	SNC
	32. 1,2-Dichloropropane	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:44	VM22I09A	SNC
	33. cis-1,3-Dichloropropene	U		µg/L	0.50	1.0	09/09/22	VM22I09A	09/09/22 12:44	VM22I09A	SNC
	34. trans-1,3-Dichloropropene	U		µg/L	0.50	1.0	09/09/22	VM22I09A	09/09/22 12:44	VM22I09A	SNC
	35. Ethylbenzene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:44	VM22I09A	SNC
	36. Ethylene Dibromide	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:44	VM22I09A	SNC
	37. 2-Hexanone	U		µg/L	50	1.0	09/09/22	VM22I09A	09/09/22 12:44	VM22I09A	SNC

Fibertec environmental services

Analytical Laboratory Report
Laboratory Project Number: A10763
Laboratory Sample Number: A10763-005

Order: A10763
Date: 09/13/22

Client Identification:	**Arcadis U.S., Inc. - Novi**	Sample Description:	**FIELD BLANK_090822**	Chain of Custody:	**212794**
Client Project Name:	**TRW Milford (30136112)**	Sample No:		Collect Date:	**09/08/22**
Client Project No:	**30136112**	Sample Matrix:	**Blank: Field**	Collect Time:	**10:40**

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: A10763-005** **Matrix: Blank: Field**
Method: EPA 5030C/EPA 8260D **Description: FIELD BLANK_090822**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
38. Isopropylbenzene	U		µg/L	5.0	1.0	09/09/22	VM22I09A	09/09/22 12:44	VM22I09A	SNC
39. 4-Methyl-2-pentanone	U		µg/L	50	1.0	09/09/22	VM22I09A	09/09/22 12:44	VM22I09A	SNC
40. Methylene Chloride	U		µg/L	5.0	1.0	09/09/22	VM22I09A	09/09/22 12:44	VM22I09A	SNC
‡ 41. 2-Methylnaphthalene	U		µg/L	5.0	1.0	09/09/22	VM22I09A	09/09/22 12:44	VM22I09A	SNC
42. MTBE	U		µg/L	5.0	1.0	09/09/22	VM22I09A	09/09/22 12:44	VM22I09A	SNC
43. Naphthalene	U		µg/L	5.0	1.0	09/09/22	VM22I09A	09/09/22 12:44	VM22I09A	SNC
44. n-Propylbenzene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:44	VM22I09A	SNC
45. Styrene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:44	VM22I09A	SNC
46. 1,1,1,2-Tetrachloroethane	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:44	VM22I09A	SNC
47. 1,1,2,2-Tetrachloroethane	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:44	VM22I09A	SNC
48. Tetrachloroethene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:44	VM22I09A	SNC
49. Toluene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:44	VM22I09A	SNC
50. 1,2,4-Trichlorobenzene	U		µg/L	5.0	1.0	09/09/22	VM22I09A	09/09/22 12:44	VM22I09A	SNC
51. 1,1,1-Trichloroethane	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:44	VM22I09A	SNC
‡ 52. 1,1,2-Trichloroethane	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:44	VM22I09A	SNC
53. Trichloroethene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:44	VM22I09A	SNC
54. Trichlorofluoromethane	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:44	VM22I09A	SNC
55. 1,2,3-Trichloropropane	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:44	VM22I09A	SNC
‡ 56. 1,2,3-Trimethylbenzene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:44	VM22I09A	SNC
57. 1,2,4-Trimethylbenzene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:44	VM22I09A	SNC
58. 1,3,5-Trimethylbenzene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:44	VM22I09A	SNC
59. Vinyl Chloride	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:44	VM22I09A	SNC
60. m&p-Xylene	U		µg/L	2.0	1.0	09/09/22	VM22I09A	09/09/22 12:44	VM22I09A	SNC
61. o-Xylene	U		µg/L	1.0	1.0	09/09/22	VM22I09A	09/09/22 12:44	VM22I09A	SNC
‡ 62. Xylenes	U		µg/L	3.0	1.0	09/09/22	VM22I09A	09/09/22 12:44	VM22I09A	SNC

Definitions/ Qualifiers:

A: Spike recovery or precision unusable due to dilution.
B: The analyte was detected in the associated method blank.
E: The analyte was detected at a concentration greater than the calibration range, therefore the result is estimated.
J: The concentration is an estimated value.
M: Modified Method
U: The analyte was not detected at or above the reporting limit.
X: Matrix Interference has resulted in a raised reporting limit or distorted result.
W: Results reported on a wet-weight basis.
***:** Value reported is outside QC limits

Exception Summary:

Analysis Locations:

All analyses performed in Holt.

NELAP ACCREDITED TNI LABORATORY

Accreditation Number(s):

T104704518-22-14 (TX)

VM22I09A: Method Blank (MB) — EPA 8260D

Run Time: VM22I09A.MB 09/09/2022 11:19 [VM22I09A]

Analyte	MB Result	MB Qualifier	MB RDL
	µg/L		µg/L
Acetone	U		50
Acrylonitrile	U		2.0
Benzene	U		1.0
Bromobenzene	U		1.0
Bromochloromethane	U		1.0
Bromodichloromethane	U		1.0
Bromomethane	U		5.0
2-Butanone	U		25
n-Butylbenzene	U		1.0
sec-Butylbenzene	U		1.0
tert-Butylbenzene	U		1.0
Carbon Disulfide	U		5.0
Carbon Tetrachloride	U		1.0
Chlorobenzene	U		1.0
Chloroethane	U		5.0
Chloroform	U		1.0
Chloromethane	U		5.0
2-Chlorotoluene	U		5.0
1,2-Dibromo-3-chloropropane (SIM)	U		1.0
Dibromochloromethane	U		5.0
Dibromomethane	U		5.0
1,2-Dichlorobenzene	U		1.0
1,3-Dichlorobenzene	U		1.0
1,4-Dichlorobenzene	U		1.0
Dichlorodifluoromethane	U		5.0
1,1-Dichloroethane	U		1.0
1,2-Dichloroethane	U		1.0
1,1-Dichloroethene	U		1.0
cis-1,2-Dichloroethene	U		1.0
trans-1,2-Dichloroethene	U		1.0
1,2-Dichloropropane	U		1.0
cis-1,3-Dichloropropene	U		0.50
trans-1,3-Dichloropropene	U		0.50

VM22I09A: Method Blank (MB) — EPA 8260D

Run Time: VM22I09A.MB 09/09/2022 11:19 [VM22I09A]

Analyte	MB Result µg/L	MB Qualifier	MB RDL µg/L
Ethylbenzene	U		1.0
Ethylene Dibromide	U		1.0
2-Hexanone	U		50
Isopropylbenzene	U		5.0
4-Methyl-2-pentanone	U		50
Methylene Chloride	U		5.0
2-Methylnaphthalene	U		5.0
MTBE	U		5.0
Naphthalene	U		5.0
n-Propylbenzene	U		1.0
Styrene	U		1.0
1,1,1,2-Tetrachloroethane	U		1.0
1,1,2,2-Tetrachloroethane	U		1.0
Tetrachloroethene	U		1.0
Toluene	U		1.0
1,2,4-Trichlorobenzene	U		5.0
1,1,1-Trichloroethane	U		1.0
1,1,2-Trichloroethane	U		1.0
Trichloroethene	U		1.0
Trichlorofluoromethane	U		1.0
1,2,3-Trichloropropane	U		1.0
1,2,3-Trimethylbenzene	U		1.0
1,2,4-Trimethylbenzene	U		1.0
1,3,5-Trimethylbenzene	U		1.0
Vinyl Chloride	U		1.0
m&p-Xylene	U		2.0
o-Xylene	U		1.0
4-Bromofluorobenzene(S)	*100*		*80-120*
Dibromofluoromethane(S)	*106*		*80-120*
1,2-Dichloroethane-d4(S)	*101*		*80-120*
Toluene-d8(S)	*102*		*80-120*

VM22I09A: Laboratory Control Sample (LCS)/Laboratory Control Sample Duplicate (LCSD) — EPA 8260D

Run Time: VM22I09A.LCS: 09/09/2022 09:54 [VM22I09A] VM22I09A.LCSD: 09/09/2022 10:22 [VM22I09A]

Analyte	LCS Spike Amount µg/L	LCS Result µg/L	LCS Rec. %	Rec. Limits %	LCS Qualifier	LCSD Spike Amount µg/L	LCSD Result µg/L	LCSD Rec. %	LCSD Qualifier	RPD %	RPD Limits %	RPD Qualifier
Acetone	50.0	24.9	50	40-130		50.0	26.4	53		6	20	
Acrylonitrile	50.0	50.4	101	70-130		50.0	52.8	106		5	20	
Benzene	50.0	49.4	99	80-120		50.0	47.9	96		3	20	
Bromobenzene	50.0	45.4	91	75-125		50.0	44.7	89		2	20	
Bromochloromethane	50.0	51.8	104	70-130		50.0	52.4	105		1	20	
Bromodichloromethane	50.0	50.8	102	75-120		50.0	50.5	101		1	20	
Bromomethane	50.0	51.0	102	68-135		50.0	49.4	99		3	20	
2-Butanone	50.0	35.1	70	40-129		50.0	37.3	75		7	20	
n-Butylbenzene	50.0	49.9	100	70-133		50.0	47.6	95		5	20	
sec-Butylbenzene	50.0	48.6	97	70-125		50.0	46.6	93		4	20	
tert-Butylbenzene	50.0	47.9	96	70-130		50.0	46.1	92		4	20	
Carbon Disulfide	50.0	56.7	113	70-130		50.0	55.1	110		3	20	
Carbon Tetrachloride	50.0	50.0	100	70-130		50.0	48.8	98		2	20	
Chlorobenzene	50.0	50.0	100	80-120		50.0	48.7	97		3	20	
Chloroethane	50.0	51.1	102	61-130		50.0	49.6	99		3	20	
Chloroform	50.0	50.5	101	80-120		50.0	50.1	100		1	20	
Chloromethane	50.0	54.8	110	67-125		50.0	54.1	108		2	20	
2-Chlorotoluene	50.0	47.6	95	75-125		50.0	46.1	92		3	20	
1,2-Dibromo-3-chloropropane (SIM)	50.0	43.4	87	70-130		50.0	44.9	90		3	20	
Dibromochloromethane	50.0	50.1	100	70-130		50.0	50.2	100		0	20	
Dibromomethane	50.0	47.7	95	75-125		50.0	47.9	96		1	20	
1,2-Dichlorobenzene	50.0	48.8	98	70-120		50.0	48.5	97		1	20	
1,3-Dichlorobenzene	50.0	49.2	98	75-125		50.0	48.0	96		2	20	
1,4-Dichlorobenzene	50.0	48.7	97	75-125		50.0	47.7	95		2	20	
Dichlorodifluoromethane	50.0	58.4	117	70-136		50.0	56.9	114		3	20	
1,1-Dichloroethane	50.0	51.6	103	70-130		50.0	51.2	102		1	20	
1,2-Dichloroethane	50.0	47.4	95	70-130		50.0	47.7	95		0	20	
1,1-Dichloroethene	50.0	47.3	95	78-120		50.0	50.2	100		5	20	
cis-1,2-Dichloroethene	50.0	51.9	104	70-125		50.0	51.4	103		1	20	
trans-1,2-Dichloroethene	50.0	52.2	104	70-130		50.0	51.1	102		2	20	
1,2-Dichloropropane	50.0	51.7	103	80-121		50.0	50.6	101		2	20	
cis-1,3-Dichloropropene	50.0	51.9	104	70-130		50.0	51.6	103		1	20	
trans-1,3-Dichloropropene	50.0	53.3	107	70-132		50.0	53.2	106		1	20	

VM22I09A: Laboratory Control Sample (LCS)/Laboratory Control Sample Duplicate (LCSD) — EPA 8260D

Run Time: VM22I09A.LCS: 09/09/2022 09:54 [VM22I09A] VM22I09A.LCSD: 09/09/2022 10:22 [VM22I09A]

Analyte	LCS Spike Amount µg/L	LCS Result µg/L	LCS Rec. %	Rec. Limits %	LCS Qualifier	LCSD Spike Amount µg/L	LCSD Result µg/L	LCSD Rec. %	LCSD Qualifier	RPD %	RPD Limits %	RPD Qualifier
Ethylbenzene	50.0	49.1	98	80-120		50.0	47.8	96		2	20	
Ethylene Dibromide	50.0	44.6	89	80-120		50.0	45.2	90		1	20	
2-Hexanone	50.0	36.5	73	70-130		50.0	38.5	77		5	20	
Isopropylbenzene	50.0	49.1	98	75-125		50.0	47.9	96		2	20	
4-Methyl-2-pentanone	50.0	52.0	104	70-130		50.0	54.4	109		5	20	
Methylene Chloride	50.0	51.3	103	70-130		50.0	51.5	103		0	20	
2-Methylnaphthalene	50.0	43.7	87	70-130		50.0	43.3	87		0	20	
MTBE	50.0	55.6	111	70-125		50.0	57.4	115		4	20	
Naphthalene	50.0	46.1	92	70-130		50.0	46.8	94		2	20	
n-Propylbenzene	50.0	49.4	99	70-130		50.0	47.7	95		4	20	
Styrene	50.0	48.5	97	70-130		50.0	47.2	94		3	20	
1,1,1,2-Tetrachloroethane	50.0	50.7	101	80-130		50.0	49.5	99		2	20	
1,1,2,2-Tetrachloroethane	50.0	53.1	106	70-130		50.0	53.8	108		2	20	
Tetrachloroethene	50.0	50.3	101	70-130		50.0	48.2	96		5	20	
Toluene	50.0	50.2	100	80-120		50.0	48.7	97		3	20	
1,2,4-Trichlorobenzene	50.0	48.5	97	70-130		50.0	48.0	96		1	20	
1,1,1-Trichloroethane	50.0	52.1	104	70-130		50.0	51.1	102		2	20	
1,1,2-Trichloroethane	50.0	48.7	97	75-125		50.0	48.9	98		1	20	
Trichloroethene	50.0	45.9	92	71-125		50.0	44.3	89		3	20	
Trichlorofluoromethane	50.0	54.7	109	70-133		50.0	53.6	107		2	20	
1,2,3-Trichloropropane	50.0	46.0	92	75-125		50.0	47.7	95		3	20	
1,2,3-Trimethylbenzene	50.0	48.3	97	70-130		50.0	46.5	93		4	20	
1,2,4-Trimethylbenzene	50.0	51.2	102	75-130		50.0	49.5	99		3	20	
1,3,5-Trimethylbenzene	50.0	48.7	97	75-130		50.0	47.4	95		2	20	
Vinyl Chloride	50.0	51.7	103	74-125		50.0	50.5	101		2	20	
m&p-Xylene	100	99.2	99	75-130		100	95.8	96		3	20	
o-Xylene	50.0	47.6	95	80-120		50.0	46.6	93		2	20	
4-Bromofluorobenzene(S)			*99*	*80-120*				*101*				
Dibromofluoromethane(S)			*103*	*80-120*				*107*				
1,2-Dichloroethane-d4(S)			*98*	*80-120*				*101*				
Toluene-d8(S)			*100*	*80-120*				*101*				

Definitions/ Qualifiers:

U: The analyte was not detected at or above the Reporting Limit (RL).
***:** Value reported is outside QC limits

Exception Summary:

Exceptions have been properly noted on reported results or affected samples have been scheduled for reanalysis when appropriate.

Report Generated By:

Bailey Welch

By Bailey Welch at 5:08 PM, Sep 13, 2022

Fibertec environmental services

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Chain of Custody # 212794
PAGE ___ of ___

Client Name: Arcadis
Contact Person: Stacey Hannula
Project Name/ Number: 30136112 TRW Milford
Email distribution list: stacey.hannula@arcadis.com
john.mcinnis@arcadis.com
Quote#
Purchase Order# 30136112

Date	Time	Sample #	Client Sample Descriptor	MATRIX (SEE RIGHT CORNER FOR CODE)	# OF CONTAINERS	VOC 8260B										HOLD SAMPLE	Remarks:
9.8.22	0920		OW-16D2_090822	GW	3	X											rush TAT
9.8.22	1007		OW-16D2R1_090822	GW	3	X											rush TAT
9.8.22	1055		OW-16D2R2_090822	GW	3	X											rush TAT
—			TRIPBLANK		3	X											std TAT ok
9.8.22	1040		FIELDBLANK_090822		3	X											std TAT ok

Matrix Code: S Soil; A Air; O Oil; P Wipe; GW Ground Water; SW Surface Water; WW Waste Water; X Other: Specify

Deliverables: [X] Level 2; [ ] Level 3; [ ] Level 4; [ ] EDD

Received On Ice

Received By Lab
SEP 08 2022
Initials: JS

Comments:

Sampled/Relinquished By: Arcadis/Stacey Hannula — Date/ Time: 9.8.22 1:00pm — Received By:
Relinquished By: — Date/ Time: — Received By: 9/8/22 5:35
Relinquished By: — Date/ Time: 9/8/22 18:42 — Received By Laboratory:

Turnaround Time ALL RESULTS WILL BE SENT BY THE END OF THE BUSINESS DAY

___1 bus. day ___X___2 bus. days (48hr) ___3 bus. days ___4 bus. days

___5-7 bus. days (standard) Other (specify time/date requirement): _____

LAB USE ONLY
Fibertec project number: A10763
Temperature upon receipt at Lab: 4.4°C

Please see back for terms and conditions