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CASE NARRATIVE

Woodard & Curran

Project Name: US EPA Riverside Industrial Park Superfund Site

Project # N/A

Chemtech Project # Q1725

Test Name: TO-15

A. Number of Samples and Date of Receipt:

8 Air samples were received on 04/03/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: TO-15. This data package contains results for TO-15.

C. Analytical Techniques:

The analysis performed on instrument MSVOA_L were done using GC column RTX-1, which is 60 meters, 0.32 mm id, 1.0 um df, Restek Cat. #10157. The Trap was supplied by Entech, glass bead and Tenax , Entech 7100A Preconcentrator. The analysis of TO-15 was based on method TO-15.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The RPD met criteria.

The Blank Spike met requirements for all samples.

The Blank analysis did not indicate the presence of lab contamination. The Initial Calibration met the requirements.

The Continuous Calibration met the requirements.

The Tuning criteria met requirements.

Due to potential high concentration of target analytes, Samples SSSG-B14-3-04012025, SSSG-B10-3-03312025 and SSSG-B10-2-03312025 were initially diluted.

Samples SSSG-B10-4-04012025, SSSG-B10-4-04012025DL, SSSG-DUP-2-04012025, SSSG-B14-3-04012025, SSSG-B10-3-03312025, SSSG-B10-1-03312025-SPLIT and SSSG-B10-2-03312025 were diluted due to high concentrations.

E. Additional Comments:

The not QT review data is reported in the Miscellaneous.

The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.

The Sample #SSSG-DUP-2-04012025, SSSG-DUP-2-04012025DL, SSSG-B14-3-04012025, SSSG-B14-3-04012025DL, SSSG-B10-3-03312025, SSSG-B10-2-03312025, SSSG-B10-2-03312025DL have the concentration of target compound below Method detection limits, therefore it is not reported as Hit in Form1.

The Manual Integrations are performed for the followings:

Manual Integration Report			
Sequence	VL032725	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC010	VL042172.D	m/p-Xylene	SAM	3/31/2025 11:24:55 AM	MMDadoda	4/3/2025 8:05:09 AM	Peak Integrated by Software incorrectly
VSTDICCC002	VL042173.D	1,4-Dioxane	SAM	3/31/2025 11:25:00 AM	MMDadoda	4/3/2025 8:05:13 AM	Peak Integrated by Software incorrectly
VSTDICCC002	VL042173.D	Ethanol	SAM	3/31/2025 11:25:00 AM	MMDadoda	4/3/2025 8:05:13 AM	Peak Integrated by Software incorrectly
VSTDICCC002	VL042173.D	m/p-Xylene	SAM	3/31/2025 11:25:00 AM	MMDadoda	4/3/2025 8:05:13 AM	Peak Integrated by Software incorrectly
VSTDICCC001	VL042174.D	1,4-Dioxane	SAM	3/31/2025 11:26:28 AM	MMDadoda	4/3/2025 8:05:22 AM	Peak Integrated by Software incorrectly
VSTDICCC001	VL042174.D	4-Methyl-2-Pentanone	SAM	3/31/2025 11:26:28 AM	MMDadoda	4/3/2025 8:05:22 AM	Peak Integrated by Software incorrectly

VSTDICC001	VL042174.D	Ethanol	SAM	3/31/2025 11:26:28 AM	MMDadoda	4/3/2025 8:05:22 AM	Peak Integrated by Software incorrectly
VSTDICC001	VL042174.D	m/p-Xylene	SAM	3/31/2025 11:26:28 AM	MMDadoda	4/3/2025 8:05:22 AM	Peak Integrated by Software incorrectly
VSTDICC001	VL042174.D	Methyl Methacrylate	SAM	3/31/2025 11:26:28 AM	MMDadoda	4/3/2025 8:05:22 AM	Peak Integrated by Software incorrectly
VSTDICC001	VL042174.D	Propene	SAM	3/31/2025 11:26:28 AM	MMDadoda	4/3/2025 8:05:22 AM	Peak Integrated by Software incorrectly
VSTDICC001	VL042174.D	t-1,3-Dichloropropene	SAM	3/31/2025 11:26:28 AM	MMDadoda	4/3/2025 8:05:22 AM	Peak Integrated by Software incorrectly

VSTDICC001	VL042174.D	trans-1,2-Dichloroethene	SAM	3/31/2025 11:26:28 AM	MMDadoda	4/3/2025 8:05:22 AM	Peak Integrated by Software incorrectly
VSTDICC001	VL042174.D	Vinyl Acetate	SAM	3/31/2025 11:26:28 AM	MMDadoda	4/3/2025 8:05:22 AM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042175.D	1,1,2-Trichloroethane	SAM	3/31/2025 11:26:33 AM	MMDadoda	4/3/2025 8:05:37 AM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042175.D	1,4-Dioxane	SAM	3/31/2025 11:26:33 AM	MMDadoda	4/3/2025 8:05:37 AM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042175.D	cis-1,3-Dichloropropene	SAM	3/31/2025 11:26:33 AM	MMDadoda	4/3/2025 8:05:37 AM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042175.D	Cyclohexane	SAM	3/31/2025 11:26:33 AM	MMDadoda	4/3/2025 8:05:37 AM	Peak Integrated by Software incorrectly

VSTDICC0.5	VL042175.D	m/p-Xylene	SAM	3/31/2025 11:26:33 AM	MMDadoda	4/3/2025 8:05:37 AM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042175.D	Methyl Methacrylate	SAM	3/31/2025 11:26:33 AM	MMDadoda	4/3/2025 8:05:37 AM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042175.D	Propene	SAM	3/31/2025 11:26:33 AM	MMDadoda	4/3/2025 8:05:37 AM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042175.D	Tetrahydrofuran	SAM	3/31/2025 11:26:33 AM	MMDadoda	4/3/2025 8:05:37 AM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042175.D	Trichloroethene	SAM	3/31/2025 11:26:33 AM	MMDadoda	4/3/2025 8:05:37 AM	Peak Integrated by Software incorrectly
VSTDICC0.1	VL042176.D	1,1,1- Trichloroethane	SAM	3/31/2025 11:25:04 AM	MMDadoda	4/3/2025 8:05:45 AM	Peak Integrated by Software incorrectly
VSTDICC0.1	VL042176.D	1,1,2,2- Tetrachloroethane	SAM	3/31/2025 11:25:04 AM	MMDadoda	4/3/2025 8:05:45 AM	Peak Integrated by Software incorrectly
VSTDICC0.1	VL042176.D	1,2- Dibromoethane	SAM	3/31/2025 11:25:04 AM	MMDadoda	4/3/2025 8:05:45 AM	Peak Integrated by Software incorrectly
VSTDICC0.1	VL042176.D	Carbon Tetrachloride	SAM	3/31/2025 11:25:04 AM	MMDadoda	4/3/2025 8:05:45 AM	Peak Integrated by Software incorrectly
VSTDICC0.1	VL042176.D	Trichloroethene	SAM	3/31/2025 11:25:04 AM	MMDadoda	4/3/2025 8:05:45 AM	Peak Integrated by Software incorrectly
VSTDICC0.03	VL042177.D	1,1,1- Trichloroethane	SAM	3/31/2025 11:26:39 AM	MMDadoda	4/3/2025 8:05:59 AM	Peak Integrated by Software incorrectly
VSTDICC0.03	VL042177.D	1,1,2,2- Tetrachloroethane	SAM	3/31/2025 11:26:39 AM	MMDadoda	4/3/2025 8:05:59 AM	Peak Integrated by Software incorrectly
VSTDICC0.03	VL042177.D	Carbon Tetrachloride	SAM	3/31/2025 11:26:39 AM	MMDadoda	4/3/2025 8:05:59 AM	Peak Integrated by Software incorrectly
VSTDICC0.03	VL042177.D	Tetrachloroethene	SAM	3/31/2025 11:26:39	MMDadoda	4/3/2025 8:05:59	Peak Integrated by

				AM		AM	Software incorrectly
VSTDICC0.03	VL042177.D	Trichloroethene	SAM	3/31/2025 11:26:39 AM	MMDadoda	4/3/2025 8:05:59 AM	Peak Integrated by Software incorrectly
VSTDICC0.03	VL042177.D	Vinyl Chloride	SAM	3/31/2025 11:26:39 AM	MMDadoda	4/3/2025 8:05:59 AM	Peak Integrated by Software incorrectly
VSTDICC015	VL042178.D	m/p-Xylene	SAM	3/31/2025 11:25:14 AM	MMDadoda	4/3/2025 8:06:09 AM	Peak Integrated by Software incorrectly
VSTDICV010	VL042179.D	m/p-Xylene	SAM	3/31/2025 11:28:50 AM	MMDadoda	4/3/2025 8:06:14 AM	Peak Integrated by Software incorrectly

Manual Integration Report			
Sequence	VL040725	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC010	VL042228.D	Heptane	SAM	4/8/2025 8:57:24 AM	MMDadoda	4/9/2025 9:32:17 AM	Peak Integrated by Software incorrectly
VSTDCCC010	VL042228.D	m/p-Xylene	SAM	4/8/2025 8:57:24 AM	MMDadoda	4/9/2025 9:32:17 AM	Peak Integrated by Software incorrectly
VL0407ABS01	VL042230.D	m/p-Xylene	SAM	4/8/2025 8:57:31 AM	MMDadoda	4/9/2025 9:32:21 AM	Peak Integrated by Software incorrectly
Q1725-04	VL042231.D	4-Methyl-2-Pentanone	SAM	4/8/2025 8:57:51 AM	MMDadoda	4/9/2025 9:32:25 AM	Peak Integrated by Software incorrectly
Q1725-04	VL042231.D	Carbon Tetrachloride	SAM	4/8/2025 8:57:51 AM	MMDadoda	4/9/2025 9:32:25 AM	Peak Integrated by Software incorrectly
Q1725-04	VL042231.D	Chlorodifluoromethane	SAM	4/8/2025 8:57:51 AM	MMDadoda	4/9/2025 9:32:25 AM	Peak Integrated

				AM			by Software incorrectly
Q1725-04	VL042231.D	Heptane	SAM	4/8/2025 8:57:51 AM	MMDadoda	4/9/2025 9:32:25 AM	Peak Integrated by Software incorrectly
Q1725-04	VL042231.D	Toluene	SAM	4/8/2025 8:57:51 AM	MMDadoda	4/9/2025 9:32:25 AM	Peak Integrated by Software incorrectly
Q1725-04DUP	VL042232.D	4-Methyl-2-Pentanone	SAM	4/8/2025 8:58:38 AM	MMDadoda	4/9/2025 9:32:29 AM	Peak Integrated by Software incorrectly
Q1725-04DUP	VL042232.D	Chlorodifluoromethane	SAM	4/8/2025 8:58:38 AM	MMDadoda	4/9/2025 9:32:29 AM	Peak Integrated by Software incorrectly
Q1725-04DUP	VL042232.D	Heptane	SAM	4/8/2025 8:58:38 AM	MMDadoda	4/9/2025 9:32:29 AM	Peak Integrated by Software incorrectly
Q1725-04DUP	VL042232.D	m/p-Xylene	SAM	4/8/2025 8:58:38 AM	MMDadoda	4/9/2025 9:32:29 AM	Peak Integrated by Software incorrectly
Q1725-01	VL042234.D	Carbon Tetrachloride	SAM	4/8/2025 8:58:43 AM	MMDadoda	4/9/2025 9:32:49 AM	Peak Integrated by Software incorrectly
Q1725-01	VL042234.D	Chlorodifluoromethane	SAM	4/8/2025 8:58:43 AM	MMDadoda	4/9/2025 9:32:49 AM	Peak Integrated by Software incorrectly
Q1725-01	VL042234.D	Ethanol	SAM	4/8/2025 8:58:43 AM	MMDadoda	4/9/2025 9:32:49 AM	Peak Integrated by Software incorrectly
Q1725-01	VL042234.D	Heptane	SAM	4/8/2025 8:58:43 AM	MMDadoda	4/9/2025 9:32:49 AM	Peak Integrated by Software incorrectly
Q1725-01	VL042234.D	Hexane	SAM	4/8/2025 8:58:43	MMDadoda	4/9/2025 9:32:49 AM	Peak Integrated

				AM			by Software incorrectly
Q1725-01	VL042234.D	Tetrachloroethene	SAM	4/8/2025 8:58:43 AM	MMDadoda	4/9/2025 9:32:49 AM	Peak Integrated by Software incorrectly
Q1725-01	VL042234.D	Trichloroethene	SAM	4/8/2025 8:58:43 AM	MMDadoda	4/9/2025 9:32:49 AM	Peak Integrated by Software incorrectly
Q1725-02	VL042235.D	Benzene	SAM	4/8/2025 9:26:36 AM	MMDadoda	4/9/2025 9:32:56 AM	Peak Integrated by Software incorrectly
Q1725-02	VL042235.D	Bromodichloromethane	SAM	4/8/2025 9:26:36 AM	MMDadoda	4/9/2025 9:32:56 AM	Peak Integrated by Software incorrectly
Q1725-02	VL042235.D	Chlorobenzene	SAM	4/8/2025 9:26:36 AM	MMDadoda	4/9/2025 9:32:56 AM	Peak Integrated by Software incorrectly
Q1725-02	VL042235.D	Heptane	SAM	4/8/2025 9:26:36 AM	MMDadoda	4/9/2025 9:32:56 AM	Peak Integrated by Software incorrectly
Q1725-02	VL042235.D	Propene	SAM	4/8/2025 9:26:36 AM	MMDadoda	4/9/2025 9:32:56 AM	Peak Integrated by Software incorrectly
Q1725-02	VL042235.D	tert-Butyl alcohol	SAM	4/8/2025 9:26:36 AM	MMDadoda	4/9/2025 9:32:56 AM	Peak Integrated by Software incorrectly
Q1725-02DL	VL042236.D	Carbon Tetrachloride	SAM	4/8/2025 8:58:49 AM	MMDadoda	4/9/2025 9:33:00 AM	Peak Integrated by Software incorrectly
Q1725-02DL	VL042236.D	Methylene Chloride	SAM	4/8/2025 8:58:49 AM	MMDadoda	4/9/2025 9:33:00 AM	Peak Integrated by Software incorrectly
Q1725-02DL	VL042236.D	Tetrachloroethene	SAM	4/8/2025 8:58:49	MMDadoda	4/9/2025 9:33:00 AM	Peak Integrated

				AM			by Software incorrectly
Q1725-02DL	VL042236.D	Toluene	SAM	4/8/2025 8:58:49 AM	MMDadoda	4/9/2025 9:33:00 AM	Peak Integrated by Software incorrectly
Q1725-02DL	VL042236.D	Trichloroethene	SAM	4/8/2025 8:58:49 AM	MMDadoda	4/9/2025 9:33:00 AM	Peak Integrated by Software incorrectly
Q1725-05DL	VL042239.D	Ethanol	SAM	4/8/2025 9:26:41 AM	MMDadoda	4/9/2025 9:33:12 AM	Peak Integrated by Software incorrectly

Q1725-07DL	VL042241.D	m/p-Xylene	SAM	4/8/2025 8:58:21 AM	MMDadoda	4/9/2025 9:33:30 AM	Peak Integrated by Software incorrectly
Q1725-07DL	VL042241.D	Toluene	SAM	4/8/2025 8:58:21 AM	MMDadoda	4/9/2025 9:33:30 AM	Peak Integrated by Software incorrectly
Q1725-02DL2	VL042243.D	Carbon Tetrachloride	SAM	4/8/2025 8:59:08 AM	MMDadoda	4/9/2025 9:33:38 AM	Peak Integrated by Software incorrectly
Q1725-02DL2	VL042243.D	Ethanol	SAM	4/8/2025 8:59:08 AM	MMDadoda	4/9/2025 9:33:38 AM	Peak Integrated by Software incorrectly
Q1725-02DL2	VL042243.D	Tetrachloroethene	SAM	4/8/2025 8:59:08 AM	MMDadoda	4/9/2025 9:33:38 AM	Peak Integrated by Software incorrectly
Q1725-02DL2	VL042243.D	Trichloroethene	SAM	4/8/2025 8:59:08 AM	MMDadoda	4/9/2025 9:33:38 AM	Peak Integrated by Software incorrectly
Q1725-03DL	VL042244.D	Ethanol	SAM	4/8/2025 8:59:12 AM	MMDadoda	4/9/2025 9:33:41 AM	Peak Integrated by Software incorrectly
Q1725-03DL	VL042244.D	Toluene	SAM	4/8/2025	MMDadoda	4/9/2025	Peak

				8:59:12 AM		9:33:41 AM	Integrated by Software incorrectly
Q1725-05	VL042245.D	Carbon Tetrachloride	SAM	4/8/2025 8:58:17 AM	MMDadoda	4/9/2025 9:33:45 AM	Peak Integrated by Software incorrectly
Q1725-05	VL042245.D	Chlorodifluoromethane	SAM	4/8/2025 8:58:17 AM	MMDadoda	4/9/2025 9:33:45 AM	Peak Integrated by Software incorrectly
Q1725-05	VL042245.D	Ethanol	SAM	4/8/2025 8:58:17 AM	MMDadoda	4/9/2025 9:33:45 AM	Peak Integrated by Software incorrectly
Q1725-05	VL042245.D	Propene	SAM	4/8/2025 8:58:17 AM	MMDadoda	4/9/2025 9:33:45 AM	Peak Integrated by Software incorrectly
Q1725-05	VL042245.D	Tetrachloroethene	SAM	4/8/2025 8:58:17 AM	MMDadoda	4/9/2025 9:33:45 AM	Peak Integrated by Software incorrectly
Q1725-06	VL042247.D	Propene	SAM	4/8/2025 9:26:53 AM	MMDadoda	4/9/2025 9:33:53 AM	Peak Integrated by Software incorrectly
Q1725-06	VL042247.D	tert-Butyl alcohol	SAM	4/8/2025 9:26:53 AM	MMDadoda	4/9/2025 9:33:53 AM	Peak Integrated by Software incorrectly
Q1725-06	VL042247.D	Tetrahydrofuran	SAM	4/8/2025 9:26:53 AM	MMDadoda	4/9/2025 9:33:53 AM	Peak Integrated by Software incorrectly
Q1725-06	VL042247.D	Toluene	SAM	4/8/2025 9:26:53 AM	MMDadoda	4/9/2025 9:33:53 AM	Peak Integrated by Software incorrectly
Q1725-06DL	VL042248.D	Tetrachloroethene	SAM	4/14/2025 5:24:10 AM	MMDadoda	4/14/2025 5:25:27 AM	Peak Integrated by Software incorrectly

Q1725-07	VL042249.D	1,1,1-Trichloroethane	SAM	4/8/2025 8:59:17 AM	MMDadoda	4/9/2025 9:33:57 AM	Peak Integrated by Software incorrectly
Q1725-07	VL042249.D	2,2,4- Trimethylpentane	SAM	4/8/2025 8:59:17 AM	MMDadoda	4/9/2025 9:33:57 AM	Peak Integrated by Software incorrectly
Q1725-07	VL042249.D	Carbon Tetrachloride	SAM	4/8/2025 8:59:17 AM	MMDadoda	4/9/2025 9:33:57 AM	Peak Integrated by Software incorrectly
Q1725-07	VL042249.D	Chlorodifluoromethane	SAM	4/8/2025 8:59:17 AM	MMDadoda	4/9/2025 9:33:57 AM	Peak Integrated by Software incorrectly
Q1725-07	VL042249.D	Propene	SAM	4/8/2025 8:59:17 AM	MMDadoda	4/9/2025 9:33:57 AM	Peak Integrated by Software incorrectly
Q1725-07	VL042249.D	tert-Butyl alcohol	SAM	4/8/2025 8:59:17 AM	MMDadoda	4/9/2025 9:33:57 AM	Peak Integrated by Software incorrectly
Q1725-07	VL042249.D	Tetrachloroethene	SAM	4/8/2025 8:59:17 AM	MMDadoda	4/9/2025 9:33:57 AM	Peak Integrated by Software incorrectly
Q1725-07	VL042249.D	Trichloroethene	SAM	4/8/2025 8:59:17 AM	MMDadoda	4/9/2025 9:33:57 AM	Peak Integrated by Software incorrectly
Q1725-08	VL042250.D	Benzene	SAM	4/8/2025 8:58:10 AM	MMDadoda	4/9/2025 9:34:00 AM	Peak Integrated by Software incorrectly
Q1725-08	VL042250.D	Ethyl Benzene	SAM	4/8/2025 8:58:10 AM	MMDadoda	4/9/2025 9:34:00 AM	Peak Integrated by Software incorrectly
Q1725-08	VL042250.D	Propene	SAM	4/8/2025 8:58:10 AM	MMDadoda	4/9/2025 9:34:00 AM	Peak Integrated by Software

							incorrectly
Q1725-08	VL042250.D	tert-Butyl alcohol	SAM	4/8/2025 8:58:10 AM	MMDadoda	4/9/2025 9:34:00 AM	Peak Integrated by Software incorrectly
Q1725-08	VL042250.D	Toluene	SAM	4/8/2025 8:58:10 AM	MMDadoda	4/9/2025 9:34:00 AM	Peak Integrated by Software incorrectly
Q1725-08DL	VL042251.D	Tetrachloroethene	SAM	4/8/2025 8:58:05 AM	MMDadoda	4/9/2025 9:34:04 AM	Peak Integrated by Software incorrectly

Manual Integration Report			
Sequence	VL040825	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC010	VL042253.D	m/p-Xylene	SAM	4/9/2025 11:25:40 AM	MMDadoda	4/9/2025 11:41:57 AM	Peak Integrated by Software incorrectly
VL0408ABS01	VL042255.D	m/p-Xylene	SAM	4/9/2025 11:25:44 AM	MMDadoda	4/9/2025 11:41:59 AM	Peak Integrated by Software incorrectly
Q1725-03	VL042256.D	Carbon Tetrachloride	SAM	4/9/2025 11:30:22 AM	MMDadoda	4/9/2025 11:42:01 AM	Peak Integrated by Software incorrectly
Q1725-03	VL042256.D	Chlorodifluoromethane	SAM	4/9/2025 11:30:22 AM	MMDadoda	4/9/2025 11:42:01 AM	Peak Integrated by Software incorrectly
Q1725-03	VL042256.D	Ethanol	SAM	4/9/2025 11:30:22 AM	MMDadoda	4/9/2025 11:42:01 AM	Peak Integrated by Software

							incorrectly
Q1725-03	VL042256.D	Propene	SAM	4/9/2025 11:30:22 AM	MMDadoda	4/9/2025 11:42:01 AM	Peak Integrated by Software incorrectly
Q1725-03	VL042256.D	Tetrachloroethene	SAM	4/9/2025 11:30:22 AM	MMDadoda	4/9/2025 11:42:01 AM	Peak Integrated by Software incorrectly
Q1725-03	VL042256.D	Trichloroethene	SAM	4/9/2025 11:30:22 AM	MMDadoda	4/9/2025 11:42:01 AM	Peak Integrated by Software incorrectly

F. Manual Integration Comments:

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____