CHEMTECH

ANALYTICAL RESULTS SUMMARY

VOLATILE ORGANICS
GENERAL CHEMISTRY
METALS
SEMI-VOLATILE ORGANICS

PROJECT NAME : NYCDPR BUSH TERMINAL LANDFILL PIERS 1-4

TRC COMPANIES, INC.

1430 Broadway

10th Floor Suite # 1000

New York, NY - 10018

Phone No: 212-221-7822

ORDER ID : M1770

ATTENTION : James Peronto, P.E., LEED AP

NELAP ACCREDITED TNI LABORATORY

ANAB ACCREDITED ISO/IEC 17025 DOD ELAP

CHEMTECH

Table Of Contents for M1770

1) Signature Page 3

2) Case Narrative 11

2.1) VOCMS Group1- Case Narrative 11

2.2) SVOCMS Group1- Case Narrative 13

2.3) Metals-MS- Case Narrative 16

2.4) Genchem- Case Narrative 18

3) Qualifier Page 20

4) QA Checklist 22

5) VOCMS Group1 Data 23

6) SVOCMS Group1 Data 173

7) Metals-MS Data 332

8) Genchem Data 425

9) Shipping Document 486

9.1) CHAIN OF CUSTODY 487

9.2) ROC 490

9.3) Lab Certificate 495

9.4) Internal COC 496

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
FORM S-I

SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

NYSDEC Sample ID/Code	Laboratory Sampl ID/Code	VOA GC/MS (Method #)	BNA GC/MS (Method #)	VOA GC (Method #)	Pest PCBs (Method #)	Metals (Method #)	Other (Method #)
TB-03222021	M1770-01	8260-Low					
MW-106I	M1770-02	8260-Low	8270E			6020B, 7470A	300.0
MW-106S	M1770-03	8260-Low	8270E			6020B, 7470A	300.0
MW-105D	M1770-06	8260-Low	8270E			6020B, 7470A	300.0
MW-105I	M1770-07	8260-Low	8270E			6020B, 7470A	300.0
MW-105S	M1770-08	8260-Low	8270E			6020B, 7470A	300.0
TB-03232021	M1770-09	8260-Low	8270E			6020B, 7470A	300.0
MW-106D	M1770-10	8260-Low	8270E			6020B, 7470A	300.0
MW-104D	M1770-11	8260-Low	8270E			6020B, 7470A	300.0
MW-104I	M1770-12	8260-Low	8270E			6020B, 7470A	300.0
MW-103D	M1770-13	8260-Low	8270E			6020B, 7470A	300.0
MW-103I	M1770-14	8260-Low	8270E			6020B, 7470A	300.0
MW-101S	M1770-15	8260-Low	8270E			6020B, 7470A	300.0
MW-101I	M1770-16	8260-Low	8270E			6020B, 7470A	300.0
MW-101D	M1770-17	8260-Low	8270E			6020B, 7470A	300.0
FB-03232021	M1770-18	8260-Low	8270E			6020B, 7470A	300.0
TB-03242021	M1770-19	8260-Low	8270E			6020B, 7470A	300.0
MW-103S	M1770-20	8260-Low	8270E			6020B, 7470A	300.0
MW-102D	M1770-21	8260-Low	8270E			6020B, 7470A	300.0
MW-102S	M1770-22	8260-Low	8270E			6020B, 7470A	300.0
MW-102I	M1770-23	8260-Low	8270E			6020B, 7470A	300.0
MW-107I	M1770-24	8260-Low	8270E			6020B, 7470A	300.0

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-IIa

SAMPLE PREPARATION AND ANALYSIS SUMMARY SEMIVOLATILE (BNA) ANALYSES

Laboratory Sample ID	Matrix	Date Collected	Date Rec'd at Lab	Date Extracted	Date Analyzed
M1770-02	Water	03/22/21	03/22/21	03/23/21	03/24/21
M1770-03	Water	03/22/21	03/22/21	03/23/21	03/24/21
M1770-06	Water	03/22/21	03/22/21	03/23/21	03/24/21
M1770-07	Water	03/22/21	03/22/21	03/23/21	03/24/21
M1770-08	Water	03/22/21	03/22/21	03/23/21	03/24/21
M1770-10	Water	03/23/21	03/23/21	03/25/21	03/25/21
M1770-11	Water	03/23/21	03/23/21	03/25/21	03/26/21
M1770-12	Water	03/23/21	03/23/21	03/25/21	03/26/21
M1770-13	Water	03/23/21	03/23/21	03/25/21	03/26/21
M1770-14	Water	03/23/21	03/23/21	03/25/21	03/26/21
M1770-15	Water	03/23/21	03/23/21	03/25/21	03/26/21
M1770-16	Water	03/23/21	03/23/21	03/25/21	03/26/21
M1770-17	Water	03/23/21	03/23/21	03/25/21	03/29/21
M1770-18	Water	03/23/21	03/23/21	03/25/21	03/29/21
M1770-20	Water	03/24/21	03/24/21	03/25/21	03/29/21
M1770-21	Water	03/24/21	03/24/21	03/25/21	03/31/21
M1770-22	Water	03/24/21	03/24/21	03/25/21	03/26/21
M1770-23	Water	03/24/21	03/24/21	03/25/21	03/26/21
M1770-24	Water	03/24/21	03/24/21	03/25/21	03/26/21

*** Details For Test :** SVOCMS Group1

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-IIb

SAMPLE PREPARATION AND ANALYSIS SUMMARY VOLATILE (VOA) ANALYSES

Laboratory Sample ID	Matrix	Date Collected	Date Rec'd at Lab	Date Extracted	Date Analyzed
M1770-01	Water	03/22/21	03/22/21		03/23/21
M1770-02	Water	03/22/21	03/22/21		03/24/21
M1770-03	Water	03/22/21	03/22/21		03/24/21
M1770-06	Water	03/22/21	03/22/21		03/24/21
M1770-07	Water	03/22/21	03/22/21		03/24/21
M1770-08	Water	03/22/21	03/22/21		03/24/21
M1770-09	Water	03/23/21	03/23/21		03/24/21
M1770-10	Water	03/23/21	03/23/21		03/25/21
M1770-11	Water	03/23/21	03/23/21		03/25/21
M1770-12	Water	03/23/21	03/23/21		03/25/21
M1770-13	Water	03/23/21	03/23/21		03/25/21
M1770-14	Water	03/23/21	03/23/21		03/25/21
M1770-15	Water	03/23/21	03/23/21		03/25/21
M1770-16	Water	03/23/21	03/23/21		03/25/21
M1770-17	Water	03/23/21	03/23/21		03/25/21
M1770-18	Water	03/23/21	03/23/21		03/25/21
M1770-19	Water	03/24/21	03/24/21		03/26/21
M1770-20	Water	03/24/21	03/24/21		03/26/21
M1770-21	Water	03/24/21	03/24/21		03/26/21
M1770-22	Water	03/24/21	03/24/21		03/26/21
M1770-23	Water	03/24/21	03/24/21		03/26/21
M1770-24	Water	03/24/21	03/24/21		03/26/21

*** Details For Test :** VOCMS Group1

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-III

SAMPLE PREPARATION AND ANALYSIS SUMMARY MISCELLANEOUS ORGANIC ANALYSES

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxiliary Cleanup	Dil/Conc Factor
M1770-01	Water	8260-Low	5030		
M1770-02	Water	8260-Low	5030		
M1770-03	Water	8260-Low	5030		
M1770-04	Water	8260-Low	5030		
M1770-05	Water	8260-Low	5030		
M1770-06	Water	8260-Low	5030		
M1770-07	Water	8260-Low	5030		
M1770-08	Water	8260-Low	5030		
M1770-09	Water	8260-Low	5030		
M1770-10	Water	8260-Low	5030		
M1770-11	Water	8260-Low	5030		
M1770-12	Water	8260-Low	5030		
M1770-13	Water	8260-Low	5030		
M1770-14	Water	8260-Low	5030		
M1770-15	Water	8260-Low	5030		
M1770-16	Water	8260-Low	5030		
M1770-17	Water	8260-Low	5030		
M1770-18	Water	8260-Low	5030		
M1770-19	Water	8260-Low	5030		
M1770-20	Water	8260-Low	5030		
M1770-21	Water	8260-Low	5030		
M1770-22	Water	8260-Low	5030		
M1770-23	Water	8260-Low	5030		
M1770-24	Water	8260-Low	5030		

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-III

SAMPLE PREPARATION AND ANALYSIS SUMMARY MISCELLANEOUS ORGANIC ANALYSES

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxiliary Cleanup	Dil/Conc Factor
M1770-02	Water	8270E	NA		
M1770-03	Water	8270E	NA		
M1770-04	Water	8270E	NA		
M1770-05	Water	8270E	NA		
M1770-06	Water	8270E	NA		
M1770-07	Water	8270E	NA		
M1770-08	Water	8270E	NA		
M1770-10	Water	8270E	NA		
M1770-11	Water	8270E	NA		
M1770-12	Water	8270E	NA		
M1770-13	Water	8270E	NA		
M1770-14	Water	8270E	NA		
M1770-15	Water	8270E	NA		
M1770-16	Water	8270E	NA		
M1770-17	Water	8270E	NA		
M1770-18	Water	8270E	NA		
M1770-20	Water	8270E	NA		
M1770-21	Water	8270E	NA		
M1770-22	Water	8270E	NA		
M1770-23	Water	8270E	NA		
M1770-24	Water	8270E	NA		

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-IV

SAMPLE PREPARATION AND ANALYSIS SUMMARY INORGANIC ANALYSES

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxiliary Cleanup	Dil/Conc Factor
M1770-02	Water	Mercury	03/22/21	03/24/21	03/25/21
M1770-03	Water	Mercury	03/22/21	03/24/21	03/25/21
M1770-06	Water	Mercury	03/22/21	03/24/21	03/25/21
M1770-07	Water	Mercury	03/22/21	03/24/21	03/25/21
M1770-08	Water	Mercury	03/22/21	03/24/21	03/25/21
M1770-10	Water	Mercury	03/23/21	03/24/21	03/25/21
M1770-11	Water	Mercury	03/23/21	03/24/21	03/25/21
M1770-12	Water	Mercury	03/23/21	03/24/21	03/25/21
M1770-13	Water	Mercury	03/23/21	03/24/21	03/25/21
M1770-14	Water	Mercury	03/23/21	03/24/21	03/25/21
M1770-15	Water	Mercury	03/23/21	03/24/21	03/25/21
M1770-16	Water	Mercury	03/23/21	03/24/21	03/25/21
M1770-17	Water	Mercury	03/23/21	03/24/21	03/25/21
M1770-18	Water	Mercury	03/23/21	03/24/21	03/25/21
M1770-20	Water	Mercury	03/24/21	03/25/21	03/26/21
M1770-21	Water	Mercury	03/24/21	03/25/21	03/26/21
M1770-22	Water	Mercury	03/24/21	03/25/21	03/26/21
M1770-23	Water	Mercury	03/24/21	03/25/21	03/26/21
M1770-24	Water	Mercury	03/24/21	03/25/21	03/26/21

*** Details For Test :** Mercury

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-IV

SAMPLE PREPARATION AND ANALYSIS SUMMARY INORGANIC ANALYSES

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxiliary Cleanup	Dil/Conc Factor
M1770-02	Water	Metals ICP-TAL	03/22/21	03/24/21	03/29/21
M1770-03	Water	Metals ICP-TAL	03/22/21	03/24/21	03/29/21
M1770-06	Water	Metals ICP-TAL	03/22/21	03/24/21	03/29/21
M1770-07	Water	Metals ICP-TAL	03/22/21	03/24/21	03/29/21
M1770-08	Water	Metals ICP-TAL	03/22/21	03/24/21	03/29/21
M1770-10	Water	Metals ICP-TAL	03/23/21	03/24/21	03/29/21
M1770-11	Water	Metals ICP-TAL	03/23/21	03/24/21	03/29/21
M1770-12	Water	Metals ICP-TAL	03/23/21	03/24/21	03/29/21
M1770-13	Water	Metals ICP-TAL	03/23/21	03/24/21	03/29/21
M1770-14	Water	Metals ICP-TAL	03/23/21	03/24/21	03/29/21
M1770-15	Water	Metals ICP-TAL	03/23/21	03/24/21	03/29/21
M1770-16	Water	Metals ICP-TAL	03/23/21	03/24/21	03/29/21
M1770-17	Water	Metals ICP-TAL	03/23/21	03/24/21	03/29/21
M1770-18	Water	Metals ICP-TAL	03/23/21	03/24/21	03/29/21
M1770-20	Water	Metals ICP-TAL	03/24/21	03/25/21	03/29/21
M1770-21	Water	Metals ICP-TAL	03/24/21	03/25/21	03/29/21
M1770-22	Water	Metals ICP-TAL	03/24/21	03/25/21	03/29/21
M1770-23	Water	Metals ICP-TAL	03/24/21	03/25/21	03/29/21
M1770-24	Water	Metals ICP-TAL	03/24/21	03/25/21	03/29/21

*** Details For Test :** Metals ICP-TAL

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Cover Page

Order ID : M1770

Project ID : NYCDPR Bush Terminal LandFill Piers 1-4

Client : TRC Companies, Inc.

Lab Sample Number	Client Sample Number
M1770-01	TB-03222021
M1770-02	MW-106I
M1770-03	MW-106S
M1770-04	M1770-03MS
M1770-05	M1770-03MSD
M1770-06	MW-105D
M1770-07	MW-105I
M1770-08	MW-105S
M1770-09	TB-03232021
M1770-10	MW-106D
M1770-11	MW-104D
M1770-12	MW-104I
M1770-13	MW-103D
M1770-14	MW-103I
M1770-15	MW-101S
M1770-16	MW-101I
M1770-17	MW-101D
M1770-18	FB-03232021
M1770-19	TB-03242021
M1770-20	MW-103S
M1770-21	MW-102D
M1770-22	MW-102S
M1770-23	MW-102I
M1770-24	MW-107I

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. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : N. N. Pandya

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 11:47 am, Apr 06, 2021

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CASE NARRATIVE

TRC Companies, Inc.
Project Name: NYCDPR Bush Terminal LandFill Piers 1-4
Project # N/A
Chemtech Project # M1770
Test Name: VOCMS Group1

A. Number of Samples and Date of Receipt:
8 Water samples were received on 03/22/2021.
10 Water samples were received on 03/23/2021.
6 Water samples were received on 03/24/2021.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Anions Group1, Mercury, Metals ICP-TAL, METALS-TAL, SVOCMS Group1 and VOCMS Group1. This data package contains results for VOCMS Group1.

C. Analytical Techniques:
The analysis performed on instrument MSVOA_X were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UIThe analysis of VOCMS Group1 was based on method 8260-Low.

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 MS recoveries met the requirements for all compounds .
The MSD recoveries met the acceptable requirements .
The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.

The % RSD is greater than 15% in the Initial Calibration method (82X031621W.M) for Chloromethane, Carbon Disulfide these compounds are passing on Linear regression.

The % RSD is greater than 15% in the Initial Calibration method (82X032421W.M) for Chloromethane,1,2-Dibromo-3-Chloropropane these compounds are passing on Linear regression.

The Continuous Calibration File ID VX021400.D met the requirements except for Chloromethane which is failing marginally low and also associate samples have no positive hit for this analyte, therefore no corrective action taken.

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

The Tuning criteria met requirements.

E. Additional Comments:

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

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 N. N. Pandya

APPROVED
By Nimisha Pandya, QA/QC Supervisor at 11:48 am, Apr 06, 2021

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CASE NARRATIVE

TRC Companies, Inc.
Project Name: NYCDPR Bush Terminal LandFill Piers 1-4
Project # N/A
Chemtech Project # M1770
Test Name: SVOCMS Group1

A. Number of Samples and Date of Receipt:
8 Water samples were received on 03/22/2021.
10 Water samples were received on 03/23/2021.
6 Water samples were received on 03/24/2021.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Anions Group1, Mercury, Metals ICP-TAL, METALS-TAL, SVOCMS Group1 and VOCMS Group1. This data package contains results for SVOCMS Group1.

C. Analytical Techniques:
The samples were analyzed on instrument BNA_F using GC Column DB-UI 8270D which is 20 meters, 0.18 mm ID, 0.36 um dfThe samples were analyzed on instrument BNA_G using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGAThe samples were analyzed on instrument BNA_M using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGAThe samples were analyzed on instrument BNA_P using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGAThe analysis of SVOCMS Group1 was based on method 8270E and extraction was done based on method 3510.

D. QA/ QC Samples:
The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for MW-102D [2,4,6-Tribromophenol - 32%, 2-Fluorobiphenyl - 28%, Nitrobenzene-d5 - 25%, Phenol-d6 - 8%, Terphenyl-d14 - 25%], MW-102DRE [2,4,6-Tribromophenol - 26%, 2-Fluorobiphenyl - 27%, Nitrobenzene-d5 - 27%, Phenol-d6 - 8% and Terphenyl-d14 - 24%].sample reanalyzed to confirm the surrogate failure and reported both data in hard copy.

The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.

The MS {M1770-04MS} with File ID: BG048490.D recoveries met the requirements for all compounds except for 1,2,4,5-Tetrachlorobenzene[88%], 2,3,4,6-Tetrachlorophenol[84%] and Benzaldehyde[152%] , Due to matrix interference.

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

The MSD {M1770-05MSD} with File ID: BG048491.D recoveries met the acceptable requirements except for 2,3,4,6-Tetrachlorophenol[88%] and Benzaldehyde[159%] , Due to matrix interference.

The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank Spike Duplicate met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.

The %RSD is greater than 20% in the Initial Calibration (Method 8270-BF032321.M) for 2,4-Dinitrophenol, 4,6-Dinitro-2-methylphenol compound are passing on Linear Regression and Benzaldehyde is passing on Quadratic Regression.

The %RSD is greater than 15% for certain compounds in the Initial Calibration (Method 8270-BG031821.M) Benzaldehyde Compound is passing on Linear Regression.

The %RSD is greater than 15% for certain compounds in the Initial Calibration (Method 8270-BM032621.M) 2-Nitroaniline, 2,4-Dinitrophenol, 2,4-Dinitrotolune, 4-Nitroaniline, 4,6-Dinitro-2-methylphenol, Butylbenzylphthalate, Bis(2-ethylhexyl)phthalate, Di-n-octyl Phthalate Compounda are passing on Linear Regression.

The %RSD is greater than 15% in the Initial Calibration (Method 8270-BP032321.M) for Benzaldehyde is passing on Linear Regression.

The Continuous Calibration File ID BF123434.D met the requirements except for 2,4-Dinitrophenol,2,4-Dinitrotoluene,2-Nitrophenol,4,6-Dinitro-2-methylphenol,Bis(2-ethylhexyl)phthalate,Butylbenzylphthalate,Di-n-octyl phthalate and 2-Nitroaniline ,associated samples have no positive hit of these compounds, therefore no corrective action was taken.

The Continuous Calibration File ID BF123477.D met the requirements except for 2,4-Dinitrophenol,2-Nitroaniline,2-Nitrophenol and 4,6-Dinitro-2-methylphenol ,associated samples have no positive hit of these compounds, therefore no corrective action was taken.

The Continuous Calibration File ID BG048485.D met the requirements except for Bis(2-ethylhexyl)phthalate,Butylbenzylphthalate and Di-n-octyl phthalate ,associated samples have no positive hit of these compounds, therefore no corrective action was taken.

The Continuous Calibration File ID BG048495.D met the requirements except for 4,6-Dinitro-2-methylphenol,Bis(2-ethylhexyl)phthalate,Butylbenzylphthalate,Di-n-butylphthalate and Di-n-octyl phthalate , associated samples have no positive hit of these compounds, therefore no corrective action was taken.

The Tuning criteria met requirements.

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

E. Additional Comments:
The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

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__ N. N. Pandya

APPROVED
By Nimisha Pandya, QA/QC Supervisor at 11:48 am, Apr 06, 2021

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CASE NARRATIVE

TRC Companies, Inc.
Project Name: NYCDPR Bush Terminal LandFill Piers 1-4
Project # N/A
Chemtech Project # M1770
Test Name: Metals ICP-TAL,Mercury

A. Number of Samples and Date of Receipt:
8 Water samples were received on 03/22/2021.
10 Water samples were received on 03/23/2021.
6 Water samples were received on 03/24/2021.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Anions Group1, Mercury, Metals ICP-TAL, METALS-TAL, SVOCMS Group1 and VOCMS Group1. This data package contains results for Metals ICP-TAL,Mercury.

C. Analytical Techniques:
The analysis of Metals ICP-TAL was based on method 6020B, digestion based on method 3010 (waters). The analysis and digestion of Mercury was based on method 7470A.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
Sample MW-106I was diluted due to high concentrations for Sodium
& Sample MW-105D was diluted due to high concentrations for Sodium
& Sample MW-104D was diluted due to high concentrations for Magnesium,Sodium
& Sample MW-104I was diluted due to high concentrations for Beryllium
& Sample MW-103S was diluted due to high concentrations for Sodium.
The Blank Spike met requirements for all samples.
The Duplicate (MW-106SMSD) analysis met criteria for all samples except for Silver due to very high minerals interference causing chloride formation due to HCL present at the time of digestion.
The Matrix Spike (MW-106SMS) analysis met criteria for all samples except for Silver due to very high minerals interference causing chloride formation due to HCL present at the time of digestion.
The Matrix Spike Duplicate (MW-106SMSD) analysis met criteria for all samples except for Silver due to very high minerals interference causing chloride formation due to HCL present at the time of digestion.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.
The Serial Dilution met the acceptable requirements.

E. Additional Comments:
Internal Standard 6Li was out side QC limit for sample# M1770-12(MW-104I), So for this sample affected parameters are reported from 5X dilution.

Collision cell is being used to remove potential interferences. The analytes Na, Mg, Al, K, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, As are being analyzed with collision cell and analytes Be, B, Ca, Ti, Se, Sr, Zr, Mo, Ag, Cd, Sn, Sb, Ba, Tl, Pb, U are being analyzed with Non-Collision Cell. Helium gas is used for the Collision Cell analysis.

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__ N. N. Pandya

APPROVED
By Nimisha Pandya, QA/QC Supervisor at 11:49 am, Apr 06, 2021

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CASE NARRATIVE

TRC Companies, Inc.
Project Name: NYCDPR Bush Terminal LandFill Piers 1-4
Project # N/A
Chemtech Project # M1770
Test Name: Anions Group1

A. Number of Samples and Date of Receipt:
8 Water samples were received on 03/22/2021.
10 Water samples were received on 03/23/2021.
6 Water samples were received on 03/24/2021.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Anions Group1, Mercury, Metals ICP-TAL, METALS-TAL, SVOCMS Group1 and VOCMS Group1. This data package contains results for Anions Group1.

C. Analytical Techniques:
The analysis of Anions Group1 was based on method 300.0.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
Sample MW-106I was diluted due to high concentrations for Chloride
& Sample MW-106S was diluted due to high concentrations for Chloride
& Sample MW-105D was diluted due to high concentrations for Chloride
& Sample MW-105I was diluted due to high concentrations for Chloride
& Sample MW-105S was diluted due to high concentrations for Chloride
& Sample MW-104D was diluted due to high concentrations for Chloride
& Sample MW-101S was diluted due to high concentrations for Chloride
& Sample MW-101I was diluted due to high concentrations for Chloride
& Sample MW-101D was diluted due to high concentrations for Chloride
& Sample MW-103S was diluted due to high concentrations for Chloride
& Sample MW-102D was diluted due to high concentrations for Chloride
& Sample MW-102I was diluted due to high concentrations for Chloride
& Sample MW-107I was diluted due to high concentrations for Chloride.
The Blank Spike met requirements for all samples.
The Duplicate analysis met criteria for all samples.
The Matrix Spike (EL-509-WATER-SAMPLEMS) analysis met criteria for all samples except for Chloride due to matrix interference.
The Matrix Spike (MW-106SMS) analysis met criteria for all samples except for Chloride due to matrix interference.
The Matrix Spike (MW-106DMS) analysis met criteria for all samples except for Chloride due to matrix interference.
The Matrix Spike (MW-107IMS) analysis met criteria for all samples except for Chloride due to sample concentration of chloride.

The Matrix Spike Duplicate(EL-509-WATER-SAMPLEMSD) analysis met criteria for all samples except for Chloride due to matrix interference.
The Matrix Spike Duplicate(MW-106SMSD) analysis met criteria for all samples except for Chloride due to matrix interference.
The Matrix Spike Duplicate(MW-106DMSD) analysis met criteria for all samples except for Chloride due to matrix interference.
The Matrix Spike Duplicate(MW-107IMSD) analysis met criteria for all samples except for Chloride due to sample concentration of chloride.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.

E. Additional Comments:
Samples# M1770-10, M1770-11, M1770-12, M1770-13, M1770-14, M1770-15, M1770-16, M1770-17, M1770-20, M1770-21, M1770-22, M1770-23, M1770-24 were analyzed with straight dilutions as per history of high concentration.

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 N. N. Pandya

APPROVED
By Nimisha Pandya, QA/QC Supervisor at 11:49 am, Apr 06, 2021

DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following " Results Qualifiers" are used:

J	Indicates the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).
U	Indicates the analyte was analyzed for, but not detected.
ND	Indicates the analyte was analyzed for, but not detected
E	Indicates the reported value is estimated because of the presence of interference
M	Indicates Duplicate injection precision not met.
N	Indicates the spiked sample recovery is not within control limits.
S	Indicates the reported value was determined by the Method of Standard Addition (MSA).
*	Indicates that the duplicate analysis is not within control limits.
+	Indicates the correlation coefficient for the MSA is less than 0.995.
D	Indicates the reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
M	Method qualifiers **"P"** for ICP instrument **"PM"** for ICP when Microwave Digestion is used **"CV"** for Manual Cold Vapor AA **"AV"** for automated Cold Vapor AA **"CA"** for MIDI-Distillation Spectrophotometric **"AS"** for Semi –Automated Spectrophotometric **"C"** for Manual Spectrophotometric **"T"** for Titrimetric **"NR"** for analyte not required to be analyzed
OR	Indicates the analyte's concentration exceeds the calibrated range of the instrument for that specific analysis.
Q	Indicates the LCS did not meet the control limits requirements
H	Sample Analysis Out Of Hold Time

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value**.** This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as "12 B".
E	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: M1770

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

1st Level QA Review Signature: SOHIL JODHANI **Date:** 04/05/2021

2nd Level QA Review Signature: N. N. Pandya **Date:**

APPROVED
By Nimisha Pandya, QA/QC Supervisor at 11:50 am, Apr 06, 2021

CHEMTECH
284 Sheffield Street, Mountainside, New Jersey - 07092
Phone: (908) 789 8900 Fax: (908) 789 8922

LAB CHRONICLE

OrderID:	M1770	**OrderDate:**	3/22/2021 4:40:20 PM
Client:	TRC Companies, Inc.	**Project:**	NYCDPR Bush Terminal LandFill Piers 1-4
Contact:	James Peronto, P.E., LEED AP	**Location:**	J52,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
M1770-01	**TB-03222021**	**Water**			**03/22/21**			**03/22/21**
			VOCMS Group1	8260-Low			03/23/21	
M1770-02	**MW-106I**	**Water**			**03/22/21**			**03/22/21**
			VOCMS Group1	8260-Low			03/24/21	
M1770-03	**MW-106S**	**Water**			**03/22/21**			**03/22/21**
			VOCMS Group1	8260-Low			03/24/21	
M1770-06	**MW-105D**	**Water**			**03/22/21**			**03/22/21**
			VOCMS Group1	8260-Low			03/24/21	
M1770-07	**MW-105I**	**Water**			**03/22/21**			**03/22/21**
			VOCMS Group1	8260-Low			03/24/21	
M1770-08	**MW-105S**	**Water**			**03/22/21**			**03/22/21**
			VOCMS Group1	8260-Low			03/24/21	
M1770-09	**TB-03232021**	**Water**			**03/23/21**			**03/23/21**
			VOCMS Group1	8260-Low			03/24/21	
M1770-10	**MW-106D**	**Water**			**03/23/21**			**03/23/21**
			VOCMS Group1	8260-Low			03/25/21	
M1770-11	**MW-104D**	**Water**			**03/23/21**			**03/23/21**
			VOCMS Group1	8260-Low			03/25/21	
M1770-12	**MW-104I**	**Water**			**03/23/21**			**03/23/21**
			VOCMS Group1	8260-Low			03/25/21	
M1770-13	**MW-103D**	**Water**			**03/23/21**			**03/23/21**
			VOCMS Group1	8260-Low			03/25/21	
M1770-14	**MW-103I**	**Water**			**03/23/21**			**03/23/21**
			VOCMS Group1	8260-Low			03/25/21	

CHEMTECH
284 Sheffield Street, Mountainside, New Jersey - 07092
Phone: (908) 789 8900 Fax: (908) 789 8922

LAB CHRONICLE

M1770-15	**MW-101S**	**Water**			**03/23/21**		**03/23/21**
			VOCMS Group1	8260-Low		03/25/21	
M1770-16	**MW-101I**	**Water**			**03/23/21**		**03/23/21**
			VOCMS Group1	8260-Low		03/25/21	
M1770-17	**MW-101D**	**Water**			**03/23/21**		**03/23/21**
			VOCMS Group1	8260-Low		03/25/21	
M1770-18	**FB-03232021**	**Water**			**03/23/21**		**03/23/21**
			VOCMS Group1	8260-Low		03/25/21	
M1770-19	**TB-03242021**	**Water**			**03/24/21**		**03/24/21**
			VOCMS Group1	8260-Low		03/26/21	
M1770-20	**MW-103S**	**Water**			**03/24/21**		**03/24/21**
			VOCMS Group1	8260-Low		03/26/21	
M1770-21	**MW-102D**	**Water**			**03/24/21**		**03/24/21**
			VOCMS Group1	8260-Low		03/26/21	
M1770-22	**MW-102S**	**Water**			**03/24/21**		**03/24/21**
			VOCMS Group1	8260-Low		03/26/21	
M1770-23	**MW-102I**	**Water**			**03/24/21**		**03/24/21**
			VOCMS Group1	8260-Low		03/26/21	
M1770-24	**MW-107I**	**Water**			**03/24/21**		**03/24/21**
			VOCMS Group1	8260-Low		03/26/21	

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: M1770

Client: TRC Companies, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	**MW-106I**							
M1770-02	MW-106I	Water	Acetone	2.80	J	1.60	5.00	ug/L
M1770-02	MW-106I	Water	cis-1,2-Dichloroethene	1.20		0.22	1.00	ug/L
M1770-02	MW-106I	Water	Trichloroethene	0.40	J	0.17	1.00	ug/L
			Total Voc :	4.4				
			Total Concentration:	4.4				
Client ID:	**MW-106S**							
M1770-03	MW-106S	Water	Acetone	4.30	J	1.60	5.00	ug/L
M1770-03	MW-106S	Water	Chlorobenzene	1.40		0.17	1.00	ug/L
			Total Voc :	5.7				
			Total Concentration:	5.7				
Client ID:	**MW-105D**							
M1770-06	MW-105D	Water	Acetone	5.00		1.60	5.00	ug/L
			Total Voc :	5				
			Total Concentration:	5				
Client ID:	**MW-105I**							
M1770-07	MW-105I	Water	Acetone	4.60	J	1.60	5.00	ug/L
			Total Voc :	4.6				
			Total Concentration:	4.6				
Client ID:	**MW-105S**							
M1770-08	MW-105S	Water	Acetone	4.50	J	1.60	5.00	ug/L
M1770-08	MW-105S	Water	Chlorobenzene	5.50		0.17	1.00	ug/L
			Total Voc :	10				
			Total Concentration:	10				
Client ID:	**MW-106D**							
M1770-10	MW-106D	Water	Acetone	7.80		1.60	5.00	ug/L
M1770-10	MW-106D	Water	4-Methyl-2-Pentanone	3.10	J	0.87	5.00	ug/L
M1770-10	MW-106D	Water	m/p-Xylenes	0.70	J	0.32	2.00	ug/L
			Total Voc :	11.6				
			Total Concentration:	11.6				
Client ID:	**MW-104D**							
M1770-11	MW-104D	Water	Acetone	5.30		1.60	5.00	ug/L
			Total Voc :	5.3				
			Total Concentration:	5.3				
Client ID:	**MW-104I**							
M1770-12	MW-104I	Water	Acetone	8.00		1.60	5.00	ug/L
			Total Voc :	8				
			Total Concentration:	8				
Client ID:	**MW-103D**							
M1770-13	MW-103D	Water	Acetone	7.00		1.60	5.00	ug/L
			Total Voc :	7				

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: M1770

Client: TRC Companies, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
			Total Concentration:	7				
Client ID:	**MW-103I**							
M1770-14	MW-103I	Water	Acetone	11.60		1.60	5.00	ug/L
			Total Voc :	11.6				
			Total Concentration:	11.6				
Client ID:	**MW-101S**							
M1770-15	MW-101S	Water	1,1-Dichloroethene	6.80		0.26	1.00	ug/L
M1770-15	MW-101S	Water	Acetone	3.30	J	1.60	5.00	ug/L
M1770-15	MW-101S	Water	1,1-Dichloroethane	5.90		0.21	1.00	ug/L
M1770-15	MW-101S	Water	cis-1,2-Dichloroethene	6.30		0.22	1.00	ug/L
M1770-15	MW-101S	Water	Chloroform	1.70		0.27	1.00	ug/L
M1770-15	MW-101S	Water	1,1,1-Trichloroethane	1.10		0.20	1.00	ug/L
M1770-15	MW-101S	Water	Trichloroethene	21.80		0.17	1.00	ug/L
M1770-15	MW-101S	Water	Tetrachloroethene	10.70		0.17	1.00	ug/L
			Total Voc :	57.6				
			Total Concentration:	57.6				
Client ID:	**MW-101I**							
M1770-16	MW-101I	Water	1,1-Dichloroethene	29.30		0.26	1.00	ug/L
M1770-16	MW-101I	Water	Acetone	5.50		1.60	5.00	ug/L
M1770-16	MW-101I	Water	1,1-Dichloroethane	20.90		0.21	1.00	ug/L
M1770-16	MW-101I	Water	cis-1,2-Dichloroethene	28.30		0.22	1.00	ug/L
M1770-16	MW-101I	Water	Chloroform	5.50		0.27	1.00	ug/L
M1770-16	MW-101I	Water	1,1,1-Trichloroethane	3.80		0.20	1.00	ug/L
M1770-16	MW-101I	Water	Trichloroethene	27.20		0.17	1.00	ug/L
M1770-16	MW-101I	Water	Tetrachloroethene	26.90		0.17	1.00	ug/L
			Total Voc :	147.4				
			Total Concentration:	147.4				
Client ID:	**MW-101D**							
M1770-17	MW-101D	Water	1,1-Dichloroethene	6.80		0.26	1.00	ug/L
M1770-17	MW-101D	Water	Acetone	6.30		1.60	5.00	ug/L
M1770-17	MW-101D	Water	1,1-Dichloroethane	8.30		0.21	1.00	ug/L
M1770-17	MW-101D	Water	cis-1,2-Dichloroethene	5.50		0.22	1.00	ug/L
M1770-17	MW-101D	Water	1,1,1-Trichloroethane	2.90		0.20	1.00	ug/L
M1770-17	MW-101D	Water	Trichloroethene	41.40		0.17	1.00	ug/L
M1770-17	MW-101D	Water	Tetrachloroethene	9.10		0.17	1.00	ug/L
			Total Voc :	80.3				
			Total Concentration:	80.3				
Client ID:	**FB-03232021**							
M1770-18	FB-03232021	Water	Acetone	7.10		1.60	5.00	ug/L
			Total Voc :	7.1				

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: M1770

Client: TRC Companies, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
			Total Concentration:	7.1				
Client ID:	**MW-103S**							
M1770-20	MW-103S	Water	Acetone	11.30		1.60	5.00	ug/L
M1770-20	MW-103S	Water	Benzene	2.00		0.18	1.00	ug/L
			Total Voc :	13.3				
			Total Concentration:	13.3				
Client ID:	**MW-102D**							
M1770-21	MW-102D	Water	Acetone	5.60		1.60	5.00	ug/L
			Total Voc :	5.6				
			Total Concentration:	5.6				
Client ID:	**MW-102S**							
M1770-22	MW-102S	Water	Acetone	4.90	J	1.60	5.00	ug/L
M1770-22	MW-102S	Water	Chloroform	1.40		0.27	1.00	ug/L
M1770-22	MW-102S	Water	Tetrachloroethene	1.80		0.17	1.00	ug/L
			Total Voc :	8.1				
			Total Concentration:	8.1				
Client ID:	**MW-102I**							
M1770-23	MW-102I	Water	Acetone	5.00		1.60	5.00	ug/L
M1770-23	MW-102I	Water	Methyl tert-butyl Ether	1.60		0.22	1.00	ug/L
M1770-23	MW-102I	Water	cis-1,2-Dichloroethene	7.70		0.22	1.00	ug/L
M1770-23	MW-102I	Water	Chloroform	0.79	J	0.27	1.00	ug/L
M1770-23	MW-102I	Water	Trichloroethene	27.90		0.17	1.00	ug/L
M1770-23	MW-102I	Water	Tetrachloroethene	54.40		0.17	1.00	ug/L
			Total Voc :	97.39				
			Total Concentration:	97.39				
Client ID:	**MW-107I**							
M1770-24	MW-107I	Water	Acetone	6.00		1.60	5.00	ug/L
M1770-24	MW-107I	Water	Methyl tert-butyl Ether	1.60		0.22	1.00	ug/L
M1770-24	MW-107I	Water	cis-1,2-Dichloroethene	7.90		0.22	1.00	ug/L
M1770-24	MW-107I	Water	Chloroform	0.77	J	0.27	1.00	ug/L
M1770-24	MW-107I	Water	Trichloroethene	27.50		0.17	1.00	ug/L
M1770-24	MW-107I	Water	Tetrachloroethene	54.20		0.17	1.00	ug/L
			Total Voc :	97.97				
			Total Concentration:	97.97				

SAMPLE DATA

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/22/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/22/21
Client Sample ID:	TB-03222021	SDG No.:	M1770
Lab Sample ID:	M1770-01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021404.D	1		03/23/21 23:34	VX032321

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.23	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.20	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.19	1.00	ug/L
74-83-9	Bromomethane	5.00	U	0.87	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.35	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.25	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.26	1.00	ug/L
67-64-1	Acetone	5.00	U	1.60	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.25	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.22	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.47	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.18	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.19	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.21	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.30	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.90	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.27	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.22	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.26	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.27	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.14	1.00	ug/L
71-43-2	Benzene	1.00	U	0.18	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.25	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.17	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.17	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.20	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.87	5.00	ug/L
108-88-3	Toluene	1.00	U	0.22	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.18	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/22/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/22/21
Client Sample ID:	TB-03222021	SDG No.:	M1770
Lab Sample ID:	M1770-01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021404.D	1		03/23/21 23:34	VX032321

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.24	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.92	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.17	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.17	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.32	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.19	1.00	ug/L
100-42-5	Styrene	1.00	U	0.16	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.23	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.29	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.47	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.30	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.35	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	47.1		78 - 117	94%	SPK: 50
1868-53-7	Dibromofluoromethane	50.1		75 - 124	100%	SPK: 50
2037-26-5	Toluene-d8	49.9		92 - 112	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	43.9		83 - 123	88%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	81700	5.629			
540-36-3	1,4-Difluorobenzene	131000	6.829			
3114-55-4	Chlorobenzene-d5	114000	10.094			
3855-82-1	1,4-Dichlorobenzene-d4	46400	12.065			

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/22/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/22/21
Client Sample ID:	TB-03222021	SDG No.:	M1770
Lab Sample ID:	M1770-01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021404.D	1		03/23/21 23:34	VX032321

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/22/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/22/21
Client Sample ID:	MW-106I	SDG No.:	M1770
Lab Sample ID:	M1770-02	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021409.D	1		03/24/21 01:31	VX032321

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.23	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.20	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.19	1.00	ug/L
74-83-9	Bromomethane	5.00	U	0.87	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.35	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.25	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.26	1.00	ug/L
67-64-1	Acetone	2.80	J	1.60	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.25	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.22	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.47	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.18	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.19	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.21	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.30	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.90	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.27	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.20		0.22	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.26	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.27	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.14	1.00	ug/L
71-43-2	Benzene	1.00	U	0.18	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.25	1.00	ug/L
79-01-6	Trichloroethene	0.40	J	0.17	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.17	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.20	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.87	5.00	ug/L
108-88-3	Toluene	1.00	U	0.22	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.18	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/22/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/22/21
Client Sample ID:	MW-106I	SDG No.:	M1770
Lab Sample ID:	M1770-02	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021409.D	1		03/24/21 01:31	VX032321

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.24	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.92	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.17	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.17	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.32	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.19	1.00	ug/L
100-42-5	Styrene	1.00	U	0.16	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.23	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.29	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.47	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.30	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.35	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.1		78 - 117	98%	SPK: 50
1868-53-7	Dibromofluoromethane	50.7		75 - 124	101%	SPK: 50
2037-26-5	Toluene-d8	49.1		92 - 112	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.6		83 - 123	89%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	75300	5.629			
540-36-3	1,4-Difluorobenzene	126000	6.829			
3114-55-4	Chlorobenzene-d5	110000	10.094			
3855-82-1	1,4-Dichlorobenzene-d4	43500	12.059			

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/22/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/22/21
Client Sample ID:	MW-106I	SDG No.:	M1770
Lab Sample ID:	M1770-02	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021409.D	1		03/24/21 01:31	VX032321

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/22/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/22/21
Client Sample ID:	MW-106S	SDG No.:	M1770
Lab Sample ID:	M1770-03	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021410.D	1		03/24/21 01:55	VX032321

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.23	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.20	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.19	1.00	ug/L
74-83-9	Bromomethane	5.00	U	0.87	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.35	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.25	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.26	1.00	ug/L
67-64-1	Acetone	4.30	J	1.60	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.25	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.22	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.47	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.18	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.19	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.21	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.30	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.90	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.27	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.22	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.26	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.27	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.14	1.00	ug/L
71-43-2	Benzene	1.00	U	0.18	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.25	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.17	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.17	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.20	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.87	5.00	ug/L
108-88-3	Toluene	1.00	U	0.22	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.18	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/22/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/22/21
Client Sample ID:	MW-106S	SDG No.:	M1770
Lab Sample ID:	M1770-03	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021410.D	1		03/24/21 01:55	VX032321

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.24	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.92	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.17	1.00	ug/L
108-90-7	Chlorobenzene	1.40		0.17	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.32	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.19	1.00	ug/L
100-42-5	Styrene	1.00	U	0.16	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.23	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.29	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.47	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.30	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.35	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.8		78 - 117	100%	SPK: 50
1868-53-7	Dibromofluoromethane	51.3		75 - 124	103%	SPK: 50
2037-26-5	Toluene-d8	49.3		92 - 112	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	41.7		83 - 123	83%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	75800	5.635			
540-36-3	1,4-Difluorobenzene	126000	6.829			
3114-55-4	Chlorobenzene-d5	107000	10.094			
3855-82-1	1,4-Dichlorobenzene-d4	39500	12.059			

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/22/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/22/21
Client Sample ID:	MW-106S	SDG No.:	M1770
Lab Sample ID:	M1770-03	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021410.D	1		03/24/21 01:55	VX032321

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/22/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/22/21
Client Sample ID:	MW-105D	SDG No.:	M1770
Lab Sample ID:	M1770-06	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021411.D	1		03/24/21 02:18	VX032321

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.23	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.20	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.19	1.00	ug/L
74-83-9	Bromomethane	5.00	U	0.87	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.35	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.25	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.26	1.00	ug/L
67-64-1	Acetone	5.00		1.60	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.25	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.22	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.47	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.18	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.19	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.21	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.30	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.90	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.27	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.22	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.26	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.27	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.14	1.00	ug/L
71-43-2	Benzene	1.00	U	0.18	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.25	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.17	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.17	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.20	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.87	5.00	ug/L
108-88-3	Toluene	1.00	U	0.22	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.18	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/22/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/22/21
Client Sample ID:	MW-105D	SDG No.:	M1770
Lab Sample ID:	M1770-06	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021411.D	1		03/24/21 02:18	VX032321

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.24	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.92	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.17	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.17	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.32	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.19	1.00	ug/L
100-42-5	Styrene	1.00	U	0.16	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.23	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.29	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.47	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.30	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.35	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.9		78 - 117	100%	SPK: 50
1868-53-7	Dibromofluoromethane	50.6		75 - 124	101%	SPK: 50
2037-26-5	Toluene-d8	49.2		92 - 112	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.8		83 - 123	94%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	73000	5.629			
540-36-3	1,4-Difluorobenzene	123000	6.829			
3114-55-4	Chlorobenzene-d5	110000	10.094			
3855-82-1	1,4-Dichlorobenzene-d4	46700	12.059			

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/22/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/22/21
Client Sample ID:	MW-105D	SDG No.:	M1770
Lab Sample ID:	M1770-06	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021411.D	1		03/24/21 02:18	VX032321

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/22/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/22/21
Client Sample ID:	MW-105I	SDG No.:	M1770
Lab Sample ID:	M1770-07	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021412.D	1		03/24/21 02:41	VX032321

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.23	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.20	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.19	1.00	ug/L
74-83-9	Bromomethane	5.00	U	0.87	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.35	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.25	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.26	1.00	ug/L
67-64-1	Acetone	4.60	J	1.60	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.25	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.22	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.47	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.18	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.19	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.21	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.30	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.90	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.27	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.22	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.26	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.27	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.14	1.00	ug/L
71-43-2	Benzene	1.00	U	0.18	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.25	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.17	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.17	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.20	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.87	5.00	ug/L
108-88-3	Toluene	1.00	U	0.22	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.18	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/22/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/22/21
Client Sample ID:	MW-105I	SDG No.:	M1770
Lab Sample ID:	M1770-07	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021412.D	1		03/24/21 02:41	VX032321

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.24	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.92	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.17	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.17	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.32	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.19	1.00	ug/L
100-42-5	Styrene	1.00	U	0.16	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.23	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.29	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.47	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.30	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.35	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.1		78 - 117	102%	SPK: 50
1868-53-7	Dibromofluoromethane	52.1		75 - 124	104%	SPK: 50
2037-26-5	Toluene-d8	49.0		92 - 112	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	41.8		83 - 123	84%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	72300	5.634			
540-36-3	1,4-Difluorobenzene	122000	6.829			
3114-55-4	Chlorobenzene-d5	102000	10.094			
3855-82-1	1,4-Dichlorobenzene-d4	40700	12.065			

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/22/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/22/21
Client Sample ID:	MW-105I	SDG No.:	M1770
Lab Sample ID:	M1770-07	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021412.D	1		03/24/21 02:41	VX032321

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/22/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/22/21
Client Sample ID:	MW-105S	SDG No.:	M1770
Lab Sample ID:	M1770-08	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021413.D	1		03/24/21 03:05	VX032321

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.23	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.20	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.19	1.00	ug/L
74-83-9	Bromomethane	5.00	U	0.87	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.35	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.25	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.26	1.00	ug/L
67-64-1	Acetone	4.50	J	1.60	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.25	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.22	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.47	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.18	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.19	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.21	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.30	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.90	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.27	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.22	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.26	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.27	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.14	1.00	ug/L
71-43-2	Benzene	1.00	U	0.18	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.25	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.17	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.17	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.20	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.87	5.00	ug/L
108-88-3	Toluene	1.00	U	0.22	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.18	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/22/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/22/21
Client Sample ID:	MW-105S	SDG No.:	M1770
Lab Sample ID:	M1770-08	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021413.D	1		03/24/21 03:05	VX032321

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.24	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.92	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.17	1.00	ug/L
108-90-7	Chlorobenzene	5.50		0.17	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.32	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.19	1.00	ug/L
100-42-5	Styrene	1.00	U	0.16	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.23	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.29	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.47	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.30	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.35	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.3		78 - 117	101%	SPK: 50
1868-53-7	Dibromofluoromethane	50.8		75 - 124	102%	SPK: 50
2037-26-5	Toluene-d8	48.8		92 - 112	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.2		83 - 123	90%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	72600	5.629			
540-36-3	1,4-Difluorobenzene	125000	6.829			
3114-55-4	Chlorobenzene-d5	111000	10.094			
3855-82-1	1,4-Dichlorobenzene-d4	46200	12.059			

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/22/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/22/21
Client Sample ID:	MW-105S	SDG No.:	M1770
Lab Sample ID:	M1770-08	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021413.D	1		03/24/21 03:05	VX032321

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	TB-03232021	SDG No.:	M1770
Lab Sample ID:	M1770-09	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021453.D	1		03/24/21 23:04	VX032421

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.23	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.20	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.19	1.00	ug/L
74-83-9	Bromomethane	5.00	U	0.87	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.35	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.25	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.26	1.00	ug/L
67-64-1	Acetone	5.00	U	1.60	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.25	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.22	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.47	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.18	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.19	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.21	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.30	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.90	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.27	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.22	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.26	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.27	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.14	1.00	ug/L
71-43-2	Benzene	1.00	U	0.18	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.25	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.17	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.17	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.20	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.87	5.00	ug/L
108-88-3	Toluene	1.00	U	0.22	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.18	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	TB-03232021	SDG No.:	M1770
Lab Sample ID:	M1770-09	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021453.D	1		03/24/21 23:04	VX032421

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.24	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.92	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.17	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.17	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.32	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.19	1.00	ug/L
100-42-5	Styrene	1.00	U	0.16	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.23	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.29	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.47	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.30	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.35	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.2		78 - 117	98%	SPK: 50
1868-53-7	Dibromofluoromethane	48.7		75 - 124	97%	SPK: 50
2037-26-5	Toluene-d8	49.0		92 - 112	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.0		83 - 123	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	70300	5.629			
540-36-3	1,4-Difluorobenzene	127000	6.829			
3114-55-4	Chlorobenzene-d5	123000	10.094			
3855-82-1	1,4-Dichlorobenzene-d4	54800	12.059			

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	TB-03232021	SDG No.:	M1770
Lab Sample ID:	M1770-09	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021453.D	1		03/24/21 23:04	VX032421

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-106D	SDG No.:	M1770
Lab Sample ID:	M1770-10	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021456.D	1		03/25/21 00:14	VX032421

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.23	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.20	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.19	1.00	ug/L
74-83-9	Bromomethane	5.00	U	0.87	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.35	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.25	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.26	1.00	ug/L
67-64-1	Acetone	7.80		1.60	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.25	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.22	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.47	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.18	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.19	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.21	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.30	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.90	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.27	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.22	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.26	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.27	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.14	1.00	ug/L
71-43-2	Benzene	1.00	U	0.18	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.25	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.17	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.17	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.20	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	3.10	J	0.87	5.00	ug/L
108-88-3	Toluene	1.00	U	0.22	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.18	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-106D	SDG No.:	M1770
Lab Sample ID:	M1770-10	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021456.D	1		03/25/21 00:14	VX032421

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.24	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.92	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.17	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.17	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	0.70	J	0.32	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.19	1.00	ug/L
100-42-5	Styrene	1.00	U	0.16	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.23	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.29	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.47	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.30	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.35	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.7		78 - 117	101%	SPK: 50
1868-53-7	Dibromofluoromethane	50.5		75 - 124	101%	SPK: 50
2037-26-5	Toluene-d8	50.5		92 - 112	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.1		83 - 123	104%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	63700	5.629			
540-36-3	1,4-Difluorobenzene	114000	6.829			
3114-55-4	Chlorobenzene-d5	116000	10.094			
3855-82-1	1,4-Dichlorobenzene-d4	50600	12.059			

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-106D	SDG No.:	M1770
Lab Sample ID:	M1770-10	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021456.D	1		03/25/21 00:14	VX032421

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-104D	SDG No.:	M1770
Lab Sample ID:	M1770-11	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021457.D	1		03/25/21 00:38	VX032421

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.23	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.20	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.19	1.00	ug/L
74-83-9	Bromomethane	5.00	U	0.87	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.35	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.25	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.26	1.00	ug/L
67-64-1	Acetone	5.30		1.60	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.25	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.22	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.47	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.18	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.19	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.21	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.30	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.90	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.27	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.22	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.26	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.27	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.14	1.00	ug/L
71-43-2	Benzene	1.00	U	0.18	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.25	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.17	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.17	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.20	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.87	5.00	ug/L
108-88-3	Toluene	1.00	U	0.22	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.18	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-104D	SDG No.:	M1770
Lab Sample ID:	M1770-11	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021457.D	1		03/25/21 00:38	VX032421

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.24	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.92	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.17	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.17	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.32	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.19	1.00	ug/L
100-42-5	Styrene	1.00	U	0.16	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.23	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.29	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.47	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.30	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.35	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.2		78 - 117	104%	SPK: 50
1868-53-7	Dibromofluoromethane	49.3		75 - 124	99%	SPK: 50
2037-26-5	Toluene-d8	49.4		92 - 112	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.4		83 - 123	103%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	63000	5.629			
540-36-3	1,4-Difluorobenzene	116000	6.829			
3114-55-4	Chlorobenzene-d5	116000	10.094			
3855-82-1	1,4-Dichlorobenzene-d4	52400	12.059			

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-104D	SDG No.:	M1770
Lab Sample ID:	M1770-11	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021457.D	1		03/25/21 00:38	VX032421

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-104I	SDG No.:	M1770
Lab Sample ID:	M1770-12	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021458.D	1		03/25/21 01:01	VX032421

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.23	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.20	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.19	1.00	ug/L
74-83-9	Bromomethane	5.00	U	0.87	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.35	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.25	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.26	1.00	ug/L
67-64-1	Acetone	8.00		1.60	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.25	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.22	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.47	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.18	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.19	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.21	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.30	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.90	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.27	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.22	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.26	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.27	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.14	1.00	ug/L
71-43-2	Benzene	1.00	U	0.18	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.25	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.17	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.17	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.20	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.87	5.00	ug/L
108-88-3	Toluene	1.00	U	0.22	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.18	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-104I	SDG No.:	M1770
Lab Sample ID:	M1770-12	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021458.D	1		03/25/21 01:01	VX032421

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.24	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.92	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.17	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.17	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.32	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.19	1.00	ug/L
100-42-5	Styrene	1.00	U	0.16	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.23	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.29	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.47	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.30	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.35	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.4		78 - 117	103%	SPK: 50
1868-53-7	Dibromofluoromethane	50.0		75 - 124	100%	SPK: 50
2037-26-5	Toluene-d8	51.1		92 - 112	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.3		83 - 123	105%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	64500	5.629			
540-36-3	1,4-Difluorobenzene	117000	6.829			
3114-55-4	Chlorobenzene-d5	119000	10.094			
3855-82-1	1,4-Dichlorobenzene-d4	52400	12.059			

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-104I	SDG No.:	M1770
Lab Sample ID:	M1770-12	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021458.D	1		03/25/21 01:01	VX032421

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-103D	SDG No.:	M1770
Lab Sample ID:	M1770-13	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021459.D	1		03/25/21 01:25	VX032421

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.23	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.20	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.19	1.00	ug/L
74-83-9	Bromomethane	5.00	U	0.87	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.35	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.25	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.26	1.00	ug/L
67-64-1	Acetone	7.00		1.60	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.25	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.22	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.47	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.18	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.19	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.21	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.30	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.90	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.27	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.22	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.26	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.27	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.14	1.00	ug/L
71-43-2	Benzene	1.00	U	0.18	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.25	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.17	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.17	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.20	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.87	5.00	ug/L
108-88-3	Toluene	1.00	U	0.22	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.18	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-103D	SDG No.:	M1770
Lab Sample ID:	M1770-13	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021459.D	1		03/25/21 01:25	VX032421

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.24	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.92	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.17	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.17	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.32	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.19	1.00	ug/L
100-42-5	Styrene	1.00	U	0.16	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.23	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.29	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.47	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.30	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.35	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.9		78 - 117	104%	SPK: 50
1868-53-7	Dibromofluoromethane	49.7		75 - 124	99%	SPK: 50
2037-26-5	Toluene-d8	48.5		92 - 112	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.7		83 - 123	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	65400	5.635			
540-36-3	1,4-Difluorobenzene	119000	6.829			
3114-55-4	Chlorobenzene-d5	117000	10.094			
3855-82-1	1,4-Dichlorobenzene-d4	49500	12.059			

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-103D	SDG No.:	M1770
Lab Sample ID:	M1770-13	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021459.D	1		03/25/21 01:25	VX032421

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-103I	SDG No.:	M1770
Lab Sample ID:	M1770-14	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021460.D	1		03/25/21 01:48	VX032421

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.23	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.20	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.19	1.00	ug/L
74-83-9	Bromomethane	5.00	U	0.87	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.35	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.25	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.26	1.00	ug/L
67-64-1	Acetone	11.6		1.60	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.25	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.22	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.47	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.18	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.19	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.21	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.30	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.90	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.27	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.22	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.26	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.27	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.14	1.00	ug/L
71-43-2	Benzene	1.00	U	0.18	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.25	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.17	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.17	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.20	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.87	5.00	ug/L
108-88-3	Toluene	1.00	U	0.22	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.18	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-103I	SDG No.:	M1770
Lab Sample ID:	M1770-14	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021460.D	1		03/25/21 01:48	VX032421

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.24	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.92	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.17	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.17	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.32	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.19	1.00	ug/L
100-42-5	Styrene	1.00	U	0.16	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.23	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.29	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.47	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.30	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.35	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.3		78 - 117	105%	SPK: 50
1868-53-7	Dibromofluoromethane	50.4		75 - 124	101%	SPK: 50
2037-26-5	Toluene-d8	49.9		92 - 112	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.5		83 - 123	103%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	61100	5.629			
540-36-3	1,4-Difluorobenzene	111000	6.829			
3114-55-4	Chlorobenzene-d5	113000	10.094			
3855-82-1	1,4-Dichlorobenzene-d4	50000	12.059			

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-103I	SDG No.:	M1770
Lab Sample ID:	M1770-14	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021460.D	1		03/25/21 01:48	VX032421

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-101S	SDG No.:	M1770
Lab Sample ID:	M1770-15	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021461.D	1		03/25/21 02:12	VX032421

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.23	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.20	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.19	1.00	ug/L
74-83-9	Bromomethane	5.00	U	0.87	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.35	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.25	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	6.80		0.26	1.00	ug/L
67-64-1	Acetone	3.30	J	1.60	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.25	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.22	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.47	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.18	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.19	1.00	ug/L
75-34-3	1,1-Dichloroethane	5.90		0.21	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.30	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.90	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.27	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	6.30		0.22	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.26	1.00	ug/L
67-66-3	Chloroform	1.70		0.27	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.10		0.20	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.14	1.00	ug/L
71-43-2	Benzene	1.00	U	0.18	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.25	1.00	ug/L
79-01-6	Trichloroethene	21.8		0.17	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.17	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.20	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.87	5.00	ug/L
108-88-3	Toluene	1.00	U	0.22	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.18	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-101S	SDG No.:	M1770
Lab Sample ID:	M1770-15	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021461.D	1		03/25/21 02:12	VX032421

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.24	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.92	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	10.7		0.17	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.17	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.32	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.19	1.00	ug/L
100-42-5	Styrene	1.00	U	0.16	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.23	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.29	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.47	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.30	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.35	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.3		78 - 117	103%	SPK: 50
1868-53-7	Dibromofluoromethane	49.4		75 - 124	99%	SPK: 50
2037-26-5	Toluene-d8	49.8		92 - 112	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.7		83 - 123	105%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	65900	5.635			
540-36-3	1,4-Difluorobenzene	122000	6.829			
3114-55-4	Chlorobenzene-d5	124000	10.094			
3855-82-1	1,4-Dichlorobenzene-d4	54400	12.059			

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-101S	SDG No.:	M1770
Lab Sample ID:	M1770-15	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021461.D	1		03/25/21 02:12	VX032421

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-101I	SDG No.:	M1770
Lab Sample ID:	M1770-16	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021462.D	1		03/25/21 02:35	VX032421

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.23	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.20	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.19	1.00	ug/L
74-83-9	Bromomethane	5.00	U	0.87	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.35	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.25	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	29.3		0.26	1.00	ug/L
67-64-1	Acetone	5.50		1.60	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.25	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.22	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.47	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.18	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.19	1.00	ug/L
75-34-3	1,1-Dichloroethane	20.9		0.21	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.30	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.90	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.27	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	28.3		0.22	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.26	1.00	ug/L
67-66-3	Chloroform	5.50		0.27	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	3.80		0.20	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.14	1.00	ug/L
71-43-2	Benzene	1.00	U	0.18	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.25	1.00	ug/L
79-01-6	Trichloroethene	27.2		0.17	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.17	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.20	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.87	5.00	ug/L
108-88-3	Toluene	1.00	U	0.22	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.18	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-101I	SDG No.:	M1770
Lab Sample ID:	M1770-16	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021462.D	1		03/25/21 02:35	VX032421

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.24	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.92	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	26.9		0.17	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.17	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.32	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.19	1.00	ug/L
100-42-5	Styrene	1.00	U	0.16	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.23	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.29	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.47	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.30	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.35	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.5		78 - 117	103%	SPK: 50
1868-53-7	Dibromofluoromethane	49.4		75 - 124	99%	SPK: 50
2037-26-5	Toluene-d8	49.9		92 - 112	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.5		83 - 123	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	66400	5.635			
540-36-3	1,4-Difluorobenzene	121000	6.829			
3114-55-4	Chlorobenzene-d5	120000	10.094			
3855-82-1	1,4-Dichlorobenzene-d4	51300	12.059			

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-101I	SDG No.:	M1770
Lab Sample ID:	M1770-16	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021462.D	1		03/25/21 02:35	VX032421

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-101D	SDG No.:	M1770
Lab Sample ID:	M1770-17	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021463.D	1		03/25/21 02:59	VX032421

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.23	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.20	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.19	1.00	ug/L
74-83-9	Bromomethane	5.00	U	0.87	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.35	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.25	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	6.80		0.26	1.00	ug/L
67-64-1	Acetone	6.30		1.60	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.25	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.22	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.47	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.18	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.19	1.00	ug/L
75-34-3	1,1-Dichloroethane	8.30		0.21	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.30	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.90	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.27	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	5.50		0.22	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.26	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.27	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	2.90		0.20	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.14	1.00	ug/L
71-43-2	Benzene	1.00	U	0.18	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.25	1.00	ug/L
79-01-6	Trichloroethene	41.4		0.17	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.17	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.20	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.87	5.00	ug/L
108-88-3	Toluene	1.00	U	0.22	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.18	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-101D	SDG No.:	M1770
Lab Sample ID:	M1770-17	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021463.D	1		03/25/21 02:59	VX032421

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.24	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.92	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	9.10		0.17	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.17	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.32	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.19	1.00	ug/L
100-42-5	Styrene	1.00	U	0.16	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.23	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.29	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.47	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.30	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.35	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.9		78 - 117	104%	SPK: 50
1868-53-7	Dibromofluoromethane	50.4		75 - 124	101%	SPK: 50
2037-26-5	Toluene-d8	50.1		92 - 112	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.7		83 - 123	103%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	62600	5.629			
540-36-3	1,4-Difluorobenzene	115000	6.829			
3114-55-4	Chlorobenzene-d5	116000	10.094			
3855-82-1	1,4-Dichlorobenzene-d4	50600	12.065			

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-101D	SDG No.:	M1770
Lab Sample ID:	M1770-17	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021463.D	1		03/25/21 02:59	VX032421

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	FB-03232021	SDG No.:	M1770
Lab Sample ID:	M1770-18	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021489.D	1		03/25/21 16:22	VX032521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.23	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.20	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.19	1.00	ug/L
74-83-9	Bromomethane	5.00	U	0.87	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.35	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.25	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.26	1.00	ug/L
67-64-1	Acetone	7.10		1.60	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.25	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.22	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.47	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.18	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.19	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.21	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.30	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.90	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.27	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.22	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.26	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.27	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.14	1.00	ug/L
71-43-2	Benzene	1.00	U	0.18	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.25	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.17	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.17	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.20	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.87	5.00	ug/L
108-88-3	Toluene	1.00	U	0.22	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.18	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	FB-03232021	SDG No.:	M1770
Lab Sample ID:	M1770-18	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021489.D	1		03/25/21 16:22	VX032521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.24	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.92	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.17	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.17	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.32	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.19	1.00	ug/L
100-42-5	Styrene	1.00	U	0.16	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.23	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.29	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.47	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.30	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.35	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.1		78 - 117	104%	SPK: 50
1868-53-7	Dibromofluoromethane	50.5		75 - 124	101%	SPK: 50
2037-26-5	Toluene-d8	50.4		92 - 112	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.1		83 - 123	104%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	59000	5.629			
540-36-3	1,4-Difluorobenzene	107000	6.835			
3114-55-4	Chlorobenzene-d5	109000	10.094			
3855-82-1	1,4-Dichlorobenzene-d4	48100	12.059			

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	FB-03232021	SDG No.:	M1770
Lab Sample ID:	M1770-18	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021489.D	1		03/25/21 16:22	VX032521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/24/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/24/21
Client Sample ID:	TB-03242021	SDG No.:	M1770
Lab Sample ID:	M1770-19	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021507.D	1		03/26/21 00:07	VX032521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.23	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.20	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.19	1.00	ug/L
74-83-9	Bromomethane	5.00	U	0.87	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.35	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.25	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.26	1.00	ug/L
67-64-1	Acetone	5.00	U	1.60	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.25	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.22	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.47	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.18	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.19	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.21	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.30	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.90	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.27	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.22	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.26	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.27	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.14	1.00	ug/L
71-43-2	Benzene	1.00	U	0.18	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.25	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.17	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.17	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.20	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.87	5.00	ug/L
108-88-3	Toluene	1.00	U	0.22	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.18	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/24/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/24/21
Client Sample ID:	TB-03242021	SDG No.:	M1770
Lab Sample ID:	M1770-19	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021507.D	1		03/26/21 00:07	VX032521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.24	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.92	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.17	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.17	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.32	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.19	1.00	ug/L
100-42-5	Styrene	1.00	U	0.16	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.23	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.29	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.47	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.30	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.35	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.3		78 - 117	103%	SPK: 50
1868-53-7	Dibromofluoromethane	49.3		75 - 124	99%	SPK: 50
2037-26-5	Toluene-d8	49.9		92 - 112	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.9		83 - 123	106%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	60900	5.629			
540-36-3	1,4-Difluorobenzene	112000	6.829			
3114-55-4	Chlorobenzene-d5	115000	10.094			
3855-82-1	1,4-Dichlorobenzene-d4	52900	12.065			

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/24/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/24/21
Client Sample ID:	TB-03242021	SDG No.:	M1770
Lab Sample ID:	M1770-19	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021507.D	1		03/26/21 00:07	VX032521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/24/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/24/21
Client Sample ID:	MW-103S	SDG No.:	M1770
Lab Sample ID:	M1770-20	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021509.D	1		03/26/21 00:54	VX032521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.23	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.20	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.19	1.00	ug/L
74-83-9	Bromomethane	5.00	U	0.87	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.35	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.25	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.26	1.00	ug/L
67-64-1	Acetone	11.3		1.60	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.25	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.22	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.47	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.18	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.19	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.21	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.30	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.90	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.27	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.22	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.26	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.27	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.14	1.00	ug/L
71-43-2	Benzene	2.00		0.18	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.25	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.17	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.17	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.20	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.87	5.00	ug/L
108-88-3	Toluene	1.00	U	0.22	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.18	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/24/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/24/21
Client Sample ID:	MW-103S	SDG No.:	M1770
Lab Sample ID:	M1770-20	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021509.D	1		03/26/21 00:54	VX032521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.24	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.92	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.17	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.17	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.32	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.19	1.00	ug/L
100-42-5	Styrene	1.00	U	0.16	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.23	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.29	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.47	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.30	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.35	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.6		78 - 117	105%	SPK: 50
1868-53-7	Dibromofluoromethane	51.3		75 - 124	103%	SPK: 50
2037-26-5	Toluene-d8	49.2		92 - 112	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.3		83 - 123	103%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	63900	5.635			
540-36-3	1,4-Difluorobenzene	117000	6.829			
3114-55-4	Chlorobenzene-d5	118000	10.094			
3855-82-1	1,4-Dichlorobenzene-d4	52000	12.059			

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/24/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/24/21
Client Sample ID:	MW-103S	SDG No.:	M1770
Lab Sample ID:	M1770-20	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021509.D	1		03/26/21 00:54	VX032521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/24/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/24/21
Client Sample ID:	MW-102D	SDG No.:	M1770
Lab Sample ID:	M1770-21	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021510.D	1		03/26/21 01:17	VX032521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.23	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.20	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.19	1.00	ug/L
74-83-9	Bromomethane	5.00	U	0.87	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.35	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.25	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.26	1.00	ug/L
67-64-1	Acetone	5.60		1.60	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.25	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.22	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.47	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.18	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.19	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.21	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.30	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.90	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.27	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.22	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.26	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.27	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.14	1.00	ug/L
71-43-2	Benzene	1.00	U	0.18	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.25	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.17	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.17	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.20	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.87	5.00	ug/L
108-88-3	Toluene	1.00	U	0.22	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.18	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/24/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/24/21
Client Sample ID:	MW-102D	SDG No.:	M1770
Lab Sample ID:	M1770-21	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021510.D	1		03/26/21 01:17	VX032521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.24	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.92	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.17	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.17	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.32	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.19	1.00	ug/L
100-42-5	Styrene	1.00	U	0.16	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.23	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.29	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.47	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.30	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.35	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.0		78 - 117	104%	SPK: 50
1868-53-7	Dibromofluoromethane	50.5		75 - 124	101%	SPK: 50
2037-26-5	Toluene-d8	50.3		92 - 112	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.5		83 - 123	109%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	61500	5.635			
540-36-3	1,4-Difluorobenzene	113000	6.829			
3114-55-4	Chlorobenzene-d5	118000	10.094			
3855-82-1	1,4-Dichlorobenzene-d4	55300	12.059			

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/24/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/24/21
Client Sample ID:	MW-102D	SDG No.:	M1770
Lab Sample ID:	M1770-21	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021510.D	1		03/26/21 01:17	VX032521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/24/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/24/21
Client Sample ID:	MW-102S	SDG No.:	M1770
Lab Sample ID:	M1770-22	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021511.D	1		03/26/21 01:41	VX032521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.23	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.20	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.19	1.00	ug/L
74-83-9	Bromomethane	5.00	U	0.87	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.35	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.25	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.26	1.00	ug/L
67-64-1	Acetone	4.90	J	1.60	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.25	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.22	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.47	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.18	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.19	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.21	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.30	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.90	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.27	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.22	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.26	1.00	ug/L
67-66-3	Chloroform	1.40		0.27	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.14	1.00	ug/L
71-43-2	Benzene	1.00	U	0.18	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.25	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.17	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.17	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.20	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.87	5.00	ug/L
108-88-3	Toluene	1.00	U	0.22	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.18	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/24/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/24/21
Client Sample ID:	MW-102S	SDG No.:	M1770
Lab Sample ID:	M1770-22	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021511.D	1		03/26/21 01:41	VX032521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.24	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.92	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	1.80		0.17	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.17	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.32	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.19	1.00	ug/L
100-42-5	Styrene	1.00	U	0.16	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.23	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.29	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.47	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.30	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.35	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.5		78 - 117	105%	SPK: 50
1868-53-7	Dibromofluoromethane	50.8		75 - 124	102%	SPK: 50
2037-26-5	Toluene-d8	49.9		92 - 112	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.8		83 - 123	106%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	62600	5.629			
540-36-3	1,4-Difluorobenzene	116000	6.829			
3114-55-4	Chlorobenzene-d5	118000	10.094			
3855-82-1	1,4-Dichlorobenzene-d4	51400	12.059			

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/24/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/24/21
Client Sample ID:	MW-102S	SDG No.:	M1770
Lab Sample ID:	M1770-22	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021511.D	1		03/26/21 01:41	VX032521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/24/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/24/21
Client Sample ID:	MW-102I	SDG No.:	M1770
Lab Sample ID:	M1770-23	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021512.D	1		03/26/21 02:04	VX032521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.23	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.20	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.19	1.00	ug/L
74-83-9	Bromomethane	5.00	U	0.87	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.35	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.25	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.26	1.00	ug/L
67-64-1	Acetone	5.00		1.60	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.25	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.60		0.22	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.47	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.18	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.19	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.21	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.30	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.90	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.27	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	7.70		0.22	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.26	1.00	ug/L
67-66-3	Chloroform	0.79	J	0.27	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.14	1.00	ug/L
71-43-2	Benzene	1.00	U	0.18	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.25	1.00	ug/L
79-01-6	Trichloroethene	27.9		0.17	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.17	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.20	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.87	5.00	ug/L
108-88-3	Toluene	1.00	U	0.22	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.18	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/24/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/24/21
Client Sample ID:	MW-102I	SDG No.:	M1770
Lab Sample ID:	M1770-23	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021512.D	1		03/26/21 02:04	VX032521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.24	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.92	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	54.4		0.17	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.17	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.32	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.19	1.00	ug/L
100-42-5	Styrene	1.00	U	0.16	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.23	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.29	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.47	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.30	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.35	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.6		78 - 117	107%	SPK: 50
1868-53-7	Dibromofluoromethane	51.1		75 - 124	102%	SPK: 50
2037-26-5	Toluene-d8	50.0		92 - 112	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.4		83 - 123	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	58000	5.623			
540-36-3	1,4-Difluorobenzene	108000	6.829			
3114-55-4	Chlorobenzene-d5	109000	10.094			
3855-82-1	1,4-Dichlorobenzene-d4	47500	12.059			

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/24/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/24/21
Client Sample ID:	MW-102I	SDG No.:	M1770
Lab Sample ID:	M1770-23	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021512.D	1		03/26/21 02:04	VX032521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/24/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/24/21
Client Sample ID:	MW-107I	SDG No.:	M1770
Lab Sample ID:	M1770-24	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021513.D	1		03/26/21 02:28	VX032521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.23	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.20	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.19	1.00	ug/L
74-83-9	Bromomethane	5.00	U	0.87	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.35	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.25	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.26	1.00	ug/L
67-64-1	Acetone	6.00		1.60	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.25	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.60		0.22	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.47	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.18	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.19	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.21	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.30	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.90	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.27	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	7.90		0.22	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.26	1.00	ug/L
67-66-3	Chloroform	0.77	J	0.27	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.14	1.00	ug/L
71-43-2	Benzene	1.00	U	0.18	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.25	1.00	ug/L
79-01-6	Trichloroethene	27.5		0.17	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.17	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.20	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.87	5.00	ug/L
108-88-3	Toluene	1.00	U	0.22	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.18	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/24/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/24/21
Client Sample ID:	MW-107I	SDG No.:	M1770
Lab Sample ID:	M1770-24	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021513.D	1		03/26/21 02:28	VX032521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.24	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.92	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	54.2		0.17	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.17	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.32	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.19	1.00	ug/L
100-42-5	Styrene	1.00	U	0.16	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.23	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.29	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.47	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.30	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.35	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.6		78 - 117	103%	SPK: 50
1868-53-7	Dibromofluoromethane	50.2		75 - 124	100%	SPK: 50
2037-26-5	Toluene-d8	49.4		92 - 112	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.4		83 - 123	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	63200	5.629			
540-36-3	1,4-Difluorobenzene	117000	6.829			
3114-55-4	Chlorobenzene-d5	117000	10.094			
3855-82-1	1,4-Dichlorobenzene-d4	50200	12.059			

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/24/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/24/21
Client Sample ID:	MW-107I	SDG No.:	M1770
Lab Sample ID:	M1770-24	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021513.D	1		03/26/21 02:28	VX032521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

QC SUMMARY

Surrogate Summary

SDG No.: M1770

Client: TRC Companies, Inc.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
M1770-01	TB-03222021	1,2-Dichloroethane-d4	50	47.1	94	78	117
		Dibromofluoromethane	50	50.1	100	75	124
		Toluene-d8	50	49.9	100	92	112
		4-Bromofluorobenzene	50	43.9	88	83	123
M1770-02	MW-106I	1,2-Dichloroethane-d4	50	49.1	98	78	117
		Dibromofluoromethane	50	50.7	101	75	124
		Toluene-d8	50	49.1	98	92	112
		4-Bromofluorobenzene	50	44.6	89	83	123
M1770-03	MW-106S	1,2-Dichloroethane-d4	50	49.8	100	78	117
		Dibromofluoromethane	50	51.3	103	75	124
		Toluene-d8	50	49.3	99	92	112
		4-Bromofluorobenzene	50	41.7	83	83	123
M1770-04MS	MW-106SMS	1,2-Dichloroethane-d4	50	52.6	105	78	117
		Dibromofluoromethane	50	49.9	100	75	124
		Toluene-d8	50	48.5	97	92	112
		4-Bromofluorobenzene	50	47.4	95	83	123
M1770-05MSD	MW-106SMSD	1,2-Dichloroethane-d4	50	49.5	99	78	117
		Dibromofluoromethane	50	50.0	100	75	124
		Toluene-d8	50	48.9	98	92	112
		4-Bromofluorobenzene	50	51.0	102	83	123
M1770-06	MW-105D	1,2-Dichloroethane-d4	50	49.9	100	78	117
		Dibromofluoromethane	50	50.6	101	75	124
		Toluene-d8	50	49.2	98	92	112
		4-Bromofluorobenzene	50	46.8	94	83	123
M1770-07	MW-105I	1,2-Dichloroethane-d4	50	51.1	102	78	117
		Dibromofluoromethane	50	52.1	104	75	124
		Toluene-d8	50	49.0	98	92	112
		4-Bromofluorobenzene	50	41.8	84	83	123
M1770-08	MW-105S	1,2-Dichloroethane-d4	50	50.3	101	78	117
		Dibromofluoromethane	50	50.8	102	75	124
		Toluene-d8	50	48.8	98	92	112
		4-Bromofluorobenzene	50	45.2	90	83	123
M1770-09	TB-03232021	1,2-Dichloroethane-d4	50	49.2	98	78	117
		Dibromofluoromethane	50	48.7	97	75	124
		Toluene-d8	50	49.0	98	92	112
		4-Bromofluorobenzene	50	50.0	100	83	123
M1770-10	MW-106D	1,2-Dichloroethane-d4	50	50.7	101	78	117
		Dibromofluoromethane	50	50.5	101	75	124
		Toluene-d8	50	50.5	101	92	112
		4-Bromofluorobenzene	50	52.1	104	83	123
M1770-11	MW-104D	1,2-Dichloroethane-d4	50	52.2	104	78	117
		Dibromofluoromethane	50	49.3	99	75	124
		Toluene-d8	50	49.4	99	92	112
		4-Bromofluorobenzene	50	51.4	103	83	123
M1770-12	MW-104I	1,2-Dichloroethane-d4	50	51.4	103	78	117
		Dibromofluoromethane	50	50.0	100	75	124
		Toluene-d8	50	51.1	102	92	112
		4-Bromofluorobenzene	50	52.3	105	83	123
M1770-13	MW-103D	1,2-Dichloroethane-d4	50	51.9	104	78	117
		Dibromofluoromethane	50	49.7	99	75	124
		Toluene-d8	50	48.5	97	92	112
		4-Bromofluorobenzene	50	49.7	99	83	123

Surrogate Summary

SDG No.: M1770

Client: TRC Companies, Inc.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
M1770-14	MW-103I	1,2-Dichloroethane-d4	50	52.3	105	78	117
		Dibromofluoromethane	50	50.4	101	75	124
		Toluene-d8	50	49.9	100	92	112
		4-Bromofluorobenzene	50	51.5	103	83	123
M1770-15	MW-101S	1,2-Dichloroethane-d4	50	51.3	103	78	117
		Dibromofluoromethane	50	49.4	99	75	124
		Toluene-d8	50	49.8	100	92	112
		4-Bromofluorobenzene	50	52.6	105	83	123
M1770-16	MW-101I	1,2-Dichloroethane-d4	50	51.5	103	78	117
		Dibromofluoromethane	50	49.4	99	75	124
		Toluene-d8	50	49.9	100	92	112
		4-Bromofluorobenzene	50	49.5	99	83	123
M1770-17	MW-101D	1,2-Dichloroethane-d4	50	51.9	104	78	117
		Dibromofluoromethane	50	50.4	101	75	124
		Toluene-d8	50	50.1	100	92	112
		4-Bromofluorobenzene	50	51.6	103	83	123
M1770-18	FB-03232021	1,2-Dichloroethane-d4	50	52.1	104	78	117
		Dibromofluoromethane	50	50.5	101	75	124
		Toluene-d8	50	50.4	101	92	112
		4-Bromofluorobenzene	50	52.1	104	83	123
M1770-19	TB-03242021	1,2-Dichloroethane-d4	50	51.3	103	78	117
		Dibromofluoromethane	50	49.3	99	75	124
		Toluene-d8	50	49.9	100	92	112
		4-Bromofluorobenzene	50	52.9	106	83	123
M1770-20	MW-103S	1,2-Dichloroethane-d4	50	52.6	105	78	117
		Dibromofluoromethane	50	51.3	103	75	124
		Toluene-d8	50	49.2	98	92	112
		4-Bromofluorobenzene	50	51.3	103	83	123
M1770-21	MW-102D	1,2-Dichloroethane-d4	50	52.0	104	78	117
		Dibromofluoromethane	50	50.5	101	75	124
		Toluene-d8	50	50.3	101	92	112
		4-Bromofluorobenzene	50	54.5	109	83	123
M1770-22	MW-102S	1,2-Dichloroethane-d4	50	52.5	105	78	117
		Dibromofluoromethane	50	50.8	102	75	124
		Toluene-d8	50	49.9	100	92	112
		4-Bromofluorobenzene	50	52.8	106	83	123
M1770-23	MW-102I	1,2-Dichloroethane-d4	50	53.5	107	78	117
		Dibromofluoromethane	50	51.1	102	75	124
		Toluene-d8	50	50.0	100	92	112
		4-Bromofluorobenzene	50	50.4	101	83	123
M1770-24	MW-107I	1,2-Dichloroethane-d4	50	51.6	103	78	117
		Dibromofluoromethane	50	50.2	100	75	124
		Toluene-d8	50	49.4	99	92	112
		4-Bromofluorobenzene	50	50.4	101	83	123
VX0323WBL02	VX0323WBL02	1,2-Dichloroethane-d4	50	49.0	98	78	117
		Dibromofluoromethane	50	50.4	101	75	124
		Toluene-d8	50	49.5	99	92	112
		4-Bromofluorobenzene	50	45.4	91	83	123
VX0323WBS02	VX0323WBS02	1,2-Dichloroethane-d4	50	50.2	100	78	117
		Dibromofluoromethane	50	51.2	102	75	124
		Toluene-d8	50	49.8	100	92	112
		4-Bromofluorobenzene	50	50.2	100	83	123

Surrogate Summary

SDG No.: M1770

Client: TRC Companies, Inc.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
VX0324WBL02	VX0324WBL02	1,2-Dichloroethane-d4	50	49.7	99	78	117
		Dibromofluoromethane	50	48.6	97	75	124
		Toluene-d8	50	49.9	100	92	112
		4-Bromofluorobenzene	50	51.5	103	83	123
VX0324WBS02	VX0324WBS02	1,2-Dichloroethane-d4	50	50.5	101	78	117
		Dibromofluoromethane	50	48.6	97	75	124
		Toluene-d8	50	48.1	96	92	112
		4-Bromofluorobenzene	50	47.0	94	83	123
VX0325WBL01	VX0325WBL01	1,2-Dichloroethane-d4	50	51.6	103	78	117
		Dibromofluoromethane	50	49.6	99	75	124
		Toluene-d8	50	50.5	101	92	112
		4-Bromofluorobenzene	50	53.5	107	83	123
VX0325WBL02	VX0325WBL02	1,2-Dichloroethane-d4	50	51.8	104	78	117
		Dibromofluoromethane	50	50.4	101	75	124
		Toluene-d8	50	50.6	101	92	112
		4-Bromofluorobenzene	50	53.0	106	83	123
VX0325WBS01	VX0325WBS01	1,2-Dichloroethane-d4	50	49.5	99	78	117
		Dibromofluoromethane	50	49.1	98	75	124
		Toluene-d8	50	48.5	97	92	112
		4-Bromofluorobenzene	50	47.5	95	83	123
VX0325WBS02	VX0325WBS02	1,2-Dichloroethane-d4	50	50.6	101	78	117
		Dibromofluoromethane	50	48.0	96	75	124
		Toluene-d8	50	48.0	96	92	112
		4-Bromofluorobenzene	50	46.7	93	83	123

CHEMTECH

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: M1770

Client: TRC Companies, Inc.

Analytical Method: SW8260-Low

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID : M1770-04MS	**Client Sample ID :** MW-106SMS							**Datafile :** VX021418.D			
Dichlorodifluoromethane	50	0	49.0	ug/L	98				73	120	
Chloromethane	50	0	41.7	ug/L	83				58	133	
Vinyl chloride	50	0	50.6	ug/L	101				69	125	
Bromomethane	50	0	45.7	ug/L	91				45	135	
Chloroethane	50	0	56.6	ug/L	113				77	119	
Trichlorofluoromethane	50	0	55.0	ug/L	110				72	124	
1,1,2-Trichlorotrifluoroethane	50	0	52.0	ug/L	104				75	117	
1,1-Dichloroethene	50	0	51.0	ug/L	102				77	118	
Acetone	250	4.30	290	ug/L	114				57	139	
Carbon disulfide	50	0	50.4	ug/L	101				67	118	
Methyl tert-butyl Ether	50	0	55.2	ug/L	110				60	148	
Methyl Acetate	50	0	50.8	ug/L	102				60	133	
Methylene Chloride	50	0	51.6	ug/L	103				79	115	
trans-1,2-Dichloroethene	50	0	52.2	ug/L	104				60	133	
1,1-Dichloroethane	50	0	54.3	ug/L	109				78	122	
Cyclohexane	50	0	50.1	ug/L	100				71	119	
2-Butanone	250	0	290	ug/L	116				67	137	
Carbon Tetrachloride	50	0	52.3	ug/L	105				84	115	
cis-1,2-Dichloroethene	50	0	53.6	ug/L	107				56	145	
Bromochloromethane	50	0	53.5	ug/L	107				72	130	
Chloroform	50	0	56.0	ug/L	112				83	119	
1,1,1-Trichloroethane	50	0	55.3	ug/L	111				83	117	
Methylcyclohexane	50	0	48.4	ug/L	97				64	120	
Benzene	50	0	51.7	ug/L	103				83	115	
1,2-Dichloroethane	50	0	53.0	ug/L	106				76	120	
Trichloroethene	50	0	51.1	ug/L	102				45	149	
1,2-Dichloropropane	50	0	53.3	ug/L	107				85	116	
Bromodichloromethane	50	0	54.3	ug/L	109				86	117	
4-Methyl-2-Pentanone	250	0	280	ug/L	112				72	137	
Toluene	50	0	52.5	ug/L	105				85	115	
t-1,3-Dichloropropene	50	0	49.2	ug/L	98				78	117	
cis-1,3-Dichloropropene	50	0	48.6	ug/L	97				77	115	
1,1,2-Trichloroethane	50	0	54.9	ug/L	110				87	119	
2-Hexanone	250	0	280	ug/L	112				75	131	
Dibromochloromethane	50	0	54.7	ug/L	109				88	118	
1,2-Dibromoethane	50	0	53.5	ug/L	107				85	119	
Tetrachloroethene	50	0	46.8	ug/L	94				65	114	
Chlorobenzene	50	1.40	51.0	ug/L	99				62	141	
Ethyl Benzene	50	0	49.7	ug/L	99				62	134	
m/p-Xylenes	100	0	100	ug/L	100				83	117	
o-Xylene	50	0	49.4	ug/L	99				81	120	
Styrene	50	0	50.5	ug/L	101				53	143	
Bromoform	50	0	55.2	ug/L	110				83	121	
Isopropylbenzene	50	0	49.7	ug/L	99				76	121	
1,1,2,2-Tetrachloroethane	50	0	53.1	ug/L	106				66	145	
1,3-Dichlorobenzene	50	0	49.2	ug/L	98				84	110	
1,4-Dichlorobenzene	50	0	48.6	ug/L	97				81	111	

CHEMTECH

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: M1770

Client: TRC Companies, Inc.

Analytical Method: SW8260-Low

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
1,2-Dichlorobenzene	50	0	50.4	ug/L	101				82	113	
1,2-Dibromo-3-Chloropropane	50	0	50.3	ug/L	101				55	152	
1,2,4-Trichlorobenzene	50	0	48.9	ug/L	98				73	120	
1,2,3-Trichlorobenzene	50	0	52.2	ug/L	104				75	119	

CHEMTECH

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: M1770

Client: TRC Companies, Inc.

Analytical Method: SW8260-Low

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID : M1770-05MSD	**Client Sample ID :** MW-106SMSD							**Datafile :** VX021419.D			
Dichlorodifluoromethane	50	0	48.8	ug/L	98		0		73	120	20
Chloromethane	50	0	41.4	ug/L	83		1		58	133	20
Vinyl chloride	50	0	50.2	ug/L	100		1		69	125	20
Bromomethane	50	0	40.4	ug/L	81		12		45	135	20
Chloroethane	50	0	51.7	ug/L	103		9		77	119	20
Trichlorofluoromethane	50	0	52.7	ug/L	105		4		72	124	20
1,1,2-Trichlorotrifluoroethane	50	0	50.1	ug/L	100		4		75	117	20
1,1-Dichloroethene	50	0	50.1	ug/L	100		2		77	118	20
Acetone	250	4.30	280	ug/L	110		4		57	139	20
Carbon disulfide	50	0	48.4	ug/L	97		4		67	118	20
Methyl tert-butyl Ether	50	0	53.3	ug/L	107		4		60	148	20
Methyl Acetate	50	0	48.4	ug/L	97		5		60	133	20
Methylene Chloride	50	0	50.3	ug/L	101		3		79	115	20
trans-1,2-Dichloroethene	50	0	49.8	ug/L	100		5		60	133	20
1,1-Dichloroethane	50	0	52.8	ug/L	106		3		78	122	20
Cyclohexane	50	0	47.5	ug/L	95		5		71	119	20
2-Butanone	250	0	280	ug/L	112		4		67	137	20
Carbon Tetrachloride	50	0	52.1	ug/L	104		0		84	115	20
cis-1,2-Dichloroethene	50	0	51.3	ug/L	103		4		56	145	20
Bromochloromethane	50	0	52.7	ug/L	105		2		72	130	20
Chloroform	50	0	54.0	ug/L	108		4		83	119	20
1,1,1-Trichloroethane	50	0	53.4	ug/L	107		3		83	117	20
Methylcyclohexane	50	0	46.7	ug/L	93		4		64	120	20
Benzene	50	0	52.4	ug/L	105		1		83	115	20
1,2-Dichloroethane	50	0	53.3	ug/L	107		1		76	120	20
Trichloroethene	50	0	51.3	ug/L	103		0		45	149	20
1,2-Dichloropropane	50	0	53.0	ug/L	106		1		85	116	20
Bromodichloromethane	50	0	54.0	ug/L	108		1		86	117	20
4-Methyl-2-Pentanone	250	0	280	ug/L	112		0		72	137	20
Toluene	50	0	53.1	ug/L	106		1		85	115	20
t-1,3-Dichloropropene	50	0	49.6	ug/L	99		1		78	117	20
cis-1,3-Dichloropropene	50	0	48.1	ug/L	96		1		77	115	20
1,1,2-Trichloroethane	50	0	55.9	ug/L	112		2		87	119	20
2-Hexanone	250	0	290	ug/L	116		4		75	131	20
Dibromochloromethane	50	0	56.0	ug/L	112		2		88	118	20
1,2-Dibromoethane	50	0	54.9	ug/L	110		3		85	119	20
Tetrachloroethene	50	0	45.9	ug/L	92		2		65	114	20
Chlorobenzene	50	1.40	52.9	ug/L	103		4		62	141	20
Ethyl Benzene	50	0	51.2	ug/L	102		3		62	134	20
m/p-Xylenes	100	0	100	ug/L	100		0		83	117	20
o-Xylene	50	0	52.7	ug/L	105		6		81	120	20
Styrene	50	0	53.5	ug/L	107		6		53	143	20
Bromoform	50	0	57.2	ug/L	114		4		83	121	20
Isopropylbenzene	50	0	49.5	ug/L	99		0		76	121	20
1,1,2,2-Tetrachloroethane	50	0	53.0	ug/L	106		0		66	145	20
1,3-Dichlorobenzene	50	0	49.5	ug/L	99		1		84	110	20
1,4-Dichlorobenzene	50	0	50.9	ug/L	102		5		81	111	20

CHEMTECH

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: M1770

Client: TRC Companies, Inc.

Analytical Method: SW8260-Low

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
1,2-Dichlorobenzene	50	0	51.4	ug/L	103		2		82	113	20
1,2-Dibromo-3-Chloropropane	50	0	50.4	ug/L	101		0		55	152	20
1,2,4-Trichlorobenzene	50	0	48.6	ug/L	97		1		73	120	20
1,2,3-Trichlorobenzene	50	0	50.6	ug/L	101		3		75	119	20

CHEMTECH

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: M1770

Client: TRC Companies, Inc.

Analytical Method: SW8260-Low **Datafile :** VX021402.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0323WBS02	Dichlorodifluoromethane	20	17.6	ug/L	88			69	116	
	Chloromethane	20	14.5	ug/L	73			65	116	
	Vinyl chloride	20	18.7	ug/L	94			65	117	
	Bromomethane	20	21.5	ug/L	108			55	134	
	Chloroethane	20	19.3	ug/L	97			73	112	
	Trichlorofluoromethane	20	19.5	ug/L	98			73	115	
	1,1,2-Trichlorotrifluoroethane	20	18.0	ug/L	90			80	112	
	1,1-Dichloroethene	20	18.8	ug/L	94			74	110	
	Acetone	100	100	ug/L	100			60	125	
	Carbon disulfide	20	17.0	ug/L	85			64	112	
	Methyl tert-butyl Ether	20	19.5	ug/L	98			78	114	
	Methyl Acetate	20	20.9	ug/L	104			67	125	
	Methylene Chloride	20	18.4	ug/L	92			72	114	
	trans-1,2-Dichloroethene	20	18.4	ug/L	92			75	108	
	1,1-Dichloroethane	20	19.5	ug/L	98			78	112	
	Cyclohexane	20	17.5	ug/L	88			75	110	
	2-Butanone	100	100	ug/L	100			65	122	
	Carbon Tetrachloride	20	19.7	ug/L	99			77	113	
	cis-1,2-Dichloroethene	20	19.3	ug/L	97			77	110	
	Bromochloromethane	20	20.4	ug/L	102			70	124	
	Chloroform	20	20.2	ug/L	101			79	113	
	1,1,1-Trichloroethane	20	19.5	ug/L	98			80	108	
	Methylcyclohexane	20	17.1	ug/L	86			72	115	
	Benzene	20	19.3	ug/L	97			82	109	
	1,2-Dichloroethane	20	19.7	ug/L	99			80	115	
	Trichloroethene	20	19.0	ug/L	95			77	113	
	1,2-Dichloropropane	20	19.8	ug/L	99			83	111	
	Bromodichloromethane	20	19.8	ug/L	99			83	110	
	4-Methyl-2-Pentanone	100	100	ug/L	100			74	118	
	Toluene	20	20.1	ug/L	101			82	110	
	t-1,3-Dichloropropene	20	17.9	ug/L	90			79	110	
	cis-1,3-Dichloropropene	20	18.4	ug/L	92			82	110	
	1,1,2-Trichloroethane	20	20.4	ug/L	102			83	112	
	2-Hexanone	100	100	ug/L	100			73	117	
	Dibromochloromethane	20	20.2	ug/L	101			82	110	
	1,2-Dibromoethane	20	20.1	ug/L	101			81	110	
	Tetrachloroethene	20	17.9	ug/L	90			67	123	
	Chlorobenzene	20	18.9	ug/L	95			82	109	
	Ethyl Benzene	20	18.8	ug/L	94			83	109	
	m/p-Xylenes	40	38.1	ug/L	95			82	110	
	o-Xylene	20	19.0	ug/L	95			83	109	
	Styrene	20	19.0	ug/L	95			80	111	
	Bromoform	20	19.4	ug/L	97			79	109	
	Isopropylbenzene	20	19.3	ug/L	97			83	112	
	1,1,2,2-Tetrachloroethane	20	19.9	ug/L	100			76	118	
	1,3-Dichlorobenzene	20	18.6	ug/L	93			82	108	
	1,4-Dichlorobenzene	20	18.1	ug/L	91			82	107	
	1,2-Dichlorobenzene	20	18.4	ug/L	92			82	109	
	1,2-Dibromo-3-Chloropropane	20	18.1	ug/L	91			68	112	

CHEMTECH

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: M1770

Client: TRC Companies, Inc.

Analytical Method: SW8260-Low **Datafile :** VX021402.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VX0323WBS02	1,2,4-Trichlorobenzene	20	18.3	ug/L	92			74	114	
	1,2,3-Trichlorobenzene	20	19.1	ug/L	96			77	113	

CHEMTECH

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: M1770

Client: TRC Companies, Inc.

Analytical Method: SW8260-Low **Datafile :** VX021451.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0324WBS02	Dichlorodifluoromethane	20	19.3	ug/L	97			69	116	
	Chloromethane	20	20.3	ug/L	102			65	116	
	Vinyl chloride	20	19.9	ug/L	100			65	117	
	Bromomethane	20	23.0	ug/L	115			55	134	
	Chloroethane	20	19.8	ug/L	99			73	112	
	Trichlorofluoromethane	20	18.9	ug/L	95			73	115	
	1,1,2-Trichlorotrifluoroethane	20	19.2	ug/L	96			80	112	
	1,1-Dichloroethene	20	18.9	ug/L	95			74	110	
	Acetone	100	97.0	ug/L	97			60	125	
	Carbon disulfide	20	17.3	ug/L	86			64	112	
	Methyl tert-butyl Ether	20	19.6	ug/L	98			78	114	
	Methyl Acetate	20	20.9	ug/L	104			67	125	
	Methylene Chloride	20	19.0	ug/L	95			72	114	
	trans-1,2-Dichloroethene	20	18.3	ug/L	92			75	108	
	1,1-Dichloroethane	20	19.6	ug/L	98			78	112	
	Cyclohexane	20	19.1	ug/L	96			75	110	
	2-Butanone	100	98.7	ug/L	99			65	122	
	Carbon Tetrachloride	20	18.4	ug/L	92			77	113	
	cis-1,2-Dichloroethene	20	19.2	ug/L	96			77	110	
	Bromochloromethane	20	19.4	ug/L	97			70	124	
	Chloroform	20	19.8	ug/L	99			79	113	
	1,1,1-Trichloroethane	20	19.6	ug/L	98			80	108	
	Methylcyclohexane	20	17.9	ug/L	90			72	115	
	Benzene	20	18.9	ug/L	95			82	109	
	1,2-Dichloroethane	20	19.2	ug/L	96			80	115	
	Trichloroethene	20	18.8	ug/L	94			77	113	
	1,2-Dichloropropane	20	19.0	ug/L	95			83	111	
	Bromodichloromethane	20	18.8	ug/L	94			83	110	
	4-Methyl-2-Pentanone	100	97.3	ug/L	97			74	118	
	Toluene	20	19.2	ug/L	96			82	110	
	t-1,3-Dichloropropene	20	17.8	ug/L	89			79	110	
	cis-1,3-Dichloropropene	20	17.9	ug/L	90			82	110	
	1,1,2-Trichloroethane	20	19.0	ug/L	95			83	112	
	2-Hexanone	100	96.8	ug/L	97			73	117	
	Dibromochloromethane	20	18.6	ug/L	93			82	110	
	1,2-Dibromoethane	20	18.5	ug/L	93			81	110	
	Tetrachloroethene	20	18.9	ug/L	95			67	123	
	Chlorobenzene	20	18.6	ug/L	93			82	109	
	Ethyl Benzene	20	18.5	ug/L	93			83	109	
	m/p-Xylenes	40	37.2	ug/L	93			82	110	
	o-Xylene	20	18.3	ug/L	92			83	109	
	Styrene	20	18.3	ug/L	92			80	111	
	Bromoform	20	17.8	ug/L	89			79	109	
	Isopropylbenzene	20	19.7	ug/L	99			83	112	
	1,1,2,2-Tetrachloroethane	20	19.6	ug/L	98			76	118	
	1,3-Dichlorobenzene	20	19.3	ug/L	97			82	108	
	1,4-Dichlorobenzene	20	18.2	ug/L	91			82	107	
	1,2-Dichlorobenzene	20	18.7	ug/L	94			82	109	
	1,2-Dibromo-3-Chloropropane	20	18.8	ug/L	94			68	112	

CHEMTECH

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: M1770

Client: TRC Companies, Inc.

Analytical Method: SW8260-Low **Datafile :** VX021451.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VX0324WBS02	1,2,4-Trichlorobenzene	20	17.4	ug/L	87			74	114	
	1,2,3-Trichlorobenzene	20	18.1	ug/L	91			77	113	

CHEMTECH

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: M1770

Client: TRC Companies, Inc.

Analytical Method: SW8260-Low **Datafile :** VX021476.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0325WBS01	Dichlorodifluoromethane	20	18.8	ug/L	94			69	116	
	Chloromethane	20	19.6	ug/L	98			65	116	
	Vinyl chloride	20	19.4	ug/L	97			65	117	
	Bromomethane	20	22.6	ug/L	113			55	134	
	Chloroethane	20	19.2	ug/L	96			73	112	
	Trichlorofluoromethane	20	19.6	ug/L	98			73	115	
	1,1,2-Trichlorotrifluoroethane	20	19.9	ug/L	100			80	112	
	1,1-Dichloroethene	20	18.6	ug/L	93			74	110	
	Acetone	100	90.8	ug/L	91			60	125	
	Carbon disulfide	20	17.2	ug/L	86			64	112	
	Methyl tert-butyl Ether	20	18.9	ug/L	95			78	114	
	Methyl Acetate	20	20.4	ug/L	102			67	125	
	Methylene Chloride	20	18.3	ug/L	92			72	114	
	trans-1,2-Dichloroethene	20	18.7	ug/L	94			75	108	
	1,1-Dichloroethane	20	19.3	ug/L	97			78	112	
	Cyclohexane	20	19.0	ug/L	95			75	110	
	2-Butanone	100	93.6	ug/L	94			65	122	
	Carbon Tetrachloride	20	19.3	ug/L	97			77	113	
	cis-1,2-Dichloroethene	20	19.0	ug/L	95			77	110	
	Bromochloromethane	20	18.6	ug/L	93			70	124	
	Chloroform	20	19.5	ug/L	98			79	113	
	1,1,1-Trichloroethane	20	19.2	ug/L	96			80	108	
	Methylcyclohexane	20	18.7	ug/L	94			72	115	
	Benzene	20	19.1	ug/L	96			82	109	
	1,2-Dichloroethane	20	19.5	ug/L	98			80	115	
	Trichloroethene	20	18.8	ug/L	94			77	113	
	1,2-Dichloropropane	20	19.4	ug/L	97			83	111	
	Bromodichloromethane	20	19.0	ug/L	95			83	110	
	4-Methyl-2-Pentanone	100	95.8	ug/L	96			74	118	
	Toluene	20	19.0	ug/L	95			82	110	
	t-1,3-Dichloropropene	20	18.1	ug/L	91			79	110	
	cis-1,3-Dichloropropene	20	18.9	ug/L	95			82	110	
	1,1,2-Trichloroethane	20	19.4	ug/L	97			83	112	
	2-Hexanone	100	94.5	ug/L	95			73	117	
	Dibromochloromethane	20	19.1	ug/L	96			82	110	
	1,2-Dibromoethane	20	18.6	ug/L	93			81	110	
	Tetrachloroethene	20	20.1	ug/L	101			67	123	
	Chlorobenzene	20	19.1	ug/L	96			82	109	
	Ethyl Benzene	20	19.2	ug/L	96			83	109	
	m/p-Xylenes	40	39.1	ug/L	98			82	110	
	o-Xylene	20	19.2	ug/L	96			83	109	
	Styrene	20	19.3	ug/L	97			80	111	
	Bromoform	20	18.1	ug/L	91			79	109	
	Isopropylbenzene	20	19.1	ug/L	96			83	112	
	1,1,2,2-Tetrachloroethane	20	18.9	ug/L	95			76	118	
	1,3-Dichlorobenzene	20	18.8	ug/L	94			82	108	
	1,4-Dichlorobenzene	20	18.3	ug/L	92			82	107	
	1,2-Dichlorobenzene	20	19.0	ug/L	95			82	109	
	1,2-Dibromo-3-Chloropropane	20	19.0	ug/L	95			68	112	

CHEMTECH

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: M1770

Client: TRC Companies, Inc.

Analytical Method: SW8260-Low **Datafile :** VX021476.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0325WBS01	1,2,4-Trichlorobenzene	20	18.1	ug/L	91			74	114	
	1,2,3-Trichlorobenzene	20	18.7	ug/L	94			77	113	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: M1770

Client: TRC Companies, Inc.

Analytical Method: SW8260-Low **Datafile :** VX021505.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0325WBS02	Dichlorodifluoromethane	20	18.5	ug/L	93			69	116	
	Chloromethane	20	20.2	ug/L	101			65	116	
	Vinyl chloride	20	19.1	ug/L	96			65	117	
	Bromomethane	20	23.5	ug/L	117			55	134	
	Chloroethane	20	19.3	ug/L	97			73	112	
	Trichlorofluoromethane	20	19.6	ug/L	98			73	115	
	1,1,2-Trichlorotrifluoroethane	20	19.1	ug/L	96			80	112	
	1,1-Dichloroethene	20	18.6	ug/L	93			74	110	
	Acetone	100	98.7	ug/L	99			60	125	
	Carbon disulfide	20	16.9	ug/L	85			64	112	
	Methyl tert-butyl Ether	20	19.5	ug/L	98			78	114	
	Methyl Acetate	20	21.6	ug/L	108			67	125	
	Methylene Chloride	20	18.8	ug/L	94			72	114	
	trans-1,2-Dichloroethene	20	18.9	ug/L	95			75	108	
	1,1-Dichloroethane	20	19.3	ug/L	97			78	112	
	Cyclohexane	20	18.5	ug/L	93			75	110	
	2-Butanone	100	98.2	ug/L	98			65	122	
	Carbon Tetrachloride	20	18.8	ug/L	94			77	113	
	cis-1,2-Dichloroethene	20	19.1	ug/L	96			77	110	
	Bromochloromethane	20	20.3	ug/L	102			70	124	
	Chloroform	20	19.7	ug/L	99			79	113	
	1,1,1-Trichloroethane	20	19.4	ug/L	97			80	108	
	Methylcyclohexane	20	17.1	ug/L	86			72	115	
	Benzene	20	18.5	ug/L	93			82	109	
	1,2-Dichloroethane	20	18.8	ug/L	94			80	115	
	Trichloroethene	20	18.1	ug/L	91			77	113	
	1,2-Dichloropropane	20	18.7	ug/L	94			83	111	
	Bromodichloromethane	20	18.5	ug/L	93			83	110	
	4-Methyl-2-Pentanone	100	96.4	ug/L	96			74	118	
	Toluene	20	18.5	ug/L	93			82	110	
	t-1,3-Dichloropropene	20	16.9	ug/L	85			79	110	
	cis-1,3-Dichloropropene	20	17.1	ug/L	86			82	110	
	1,1,2-Trichloroethane	20	18.8	ug/L	94			83	112	
	2-Hexanone	100	95.2	ug/L	95			73	117	
	Dibromochloromethane	20	18.0	ug/L	90			82	110	
	1,2-Dibromoethane	20	18.3	ug/L	92			81	110	
	Tetrachloroethene	20	19.2	ug/L	96			67	123	
	Chlorobenzene	20	18.4	ug/L	92			82	109	
	Ethyl Benzene	20	18.4	ug/L	92			83	109	
	m/p-Xylenes	40	37.2	ug/L	93			82	110	
	o-Xylene	20	19.1	ug/L	96			83	109	
	Styrene	20	18.4	ug/L	92			80	111	
	Bromoform	20	18.6	ug/L	93			79	109	
	Isopropylbenzene	20	18.5	ug/L	93			83	112	
	1,1,2,2-Tetrachloroethane	20	19.6	ug/L	98			76	118	
	1,3-Dichlorobenzene	20	17.6	ug/L	88			82	108	
	1,4-Dichlorobenzene	20	18.0	ug/L	90			82	107	
	1,2-Dichlorobenzene	20	18.5	ug/L	93			82	109	
	1,2-Dibromo-3-Chloropropane	20	18.9	ug/L	95			68	112	

CHEMTECH

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: M1770

Client: TRC Companies, Inc.

Analytical Method: SW8260-Low **Datafile :** VX021505.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VX0325WBS02	1,2,4-Trichlorobenzene	20	17.3	ug/L	86			74	114	
	1,2,3-Trichlorobenzene	20	17.4	ug/L	87			77	113	

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0323WBL02

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: M1770 SAS No.: M1770 SDG NO.: M1770

Lab File ID: VX021401.D Lab Sample ID: VX0323WBL02

Date Analyzed: 03/23/2021 Time Analyzed: 22:24

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_X

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VX0323WBS02	VX0323WBS02	VX021402.D	03/23/2021
TB-03222021	M1770-01	VX021404.D	03/23/2021
MW-106I	M1770-02	VX021409.D	03/24/2021
MW-106S	M1770-03	VX021410.D	03/24/2021
MW-105D	M1770-06	VX021411.D	03/24/2021
MW-105I	M1770-07	VX021412.D	03/24/2021
MW-105S	M1770-08	VX021413.D	03/24/2021
MW-106SMS	M1770-04MS	VX021418.D	03/24/2021
MW-106SMSD	M1770-05MSD	VX021419.D	03/24/2021

COMMENTS:

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0324WBL02

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: M1770 SAS No.: M1770 SDG NO.: M1770

Lab File ID: VX021450.D Lab Sample ID: VX0324WBL02

Date Analyzed: 03/24/2021 Time Analyzed: 21:54

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_X

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VX0324WBS02	VX0324WBS02	VX021451.D	03/24/2021
TB-03232021	M1770-09	VX021453.D	03/24/2021
MW-106D	M1770-10	VX021456.D	03/25/2021
MW-104D	M1770-11	VX021457.D	03/25/2021
MW-104I	M1770-12	VX021458.D	03/25/2021
MW-103D	M1770-13	VX021459.D	03/25/2021
MW-103I	M1770-14	VX021460.D	03/25/2021
MW-101S	M1770-15	VX021461.D	03/25/2021
MW-101I	M1770-16	VX021462.D	03/25/2021
MW-101D	M1770-17	VX021463.D	03/25/2021

COMMENTS:

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0325WBL01

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: M1770 SAS No.: M1770 SDG NO.: M1770

Lab File ID: VX021475.D Lab Sample ID: VX0325WBL01

Date Analyzed: 03/25/2021 Time Analyzed: 11:08

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_X

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VX0325WBS01	VX0325WBS01	VX021476.D	03/25/2021
FB-03232021	M1770-18	VX021489.D	03/25/2021

COMMENTS:

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0325WBL02

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: M1770 SAS No.: M1770 SDG NO.: M1770

Lab File ID: VX021504.D Lab Sample ID: VX0325WBL02

Date Analyzed: 03/25/2021 Time Analyzed: 22:56

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_X

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VX0325WBS02	VX0325WBS02	VX021505.D	03/25/2021
TB-03242021	M1770-19	VX021507.D	03/26/2021
MW-103S	M1770-20	VX021509.D	03/26/2021
MW-102D	M1770-21	VX021510.D	03/26/2021
MW-102S	M1770-22	VX021511.D	03/26/2021
MW-102I	M1770-23	VX021512.D	03/26/2021
MW-107I	M1770-24	VX021513.D	03/26/2021

COMMENTS:

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: M1770 SAS No.: M1770 SDG NO.: M1770

Lab File ID: VX021235.D BFB Injection Date: 03/16/2021

Instrument ID: MSVOA_X BFB Injection Time: 09:02

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.3
75	30.0 - 60.0% of mass 95	55.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7
173	Less than 2.0% of mass 174	1 (1.4) 1
174	50.0 - 100.0% of mass 95	68.1
175	5.0 - 9.0% of mass 174	5.8 (8.6) 1
176	95.0 - 101.0% of mass 174	67.9 (99.6) 1
177	5.0 - 9.0% of mass 176	4.2 (6.2) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC005	VSTDICC005	VX021238.D	03/16/2021	11:00
VSTDICC020	VSTDICC020	VX021239.D	03/16/2021	11:23
VSTDICCC050	VSTDICCC050	VX021240.D	03/16/2021	11:46
VSTDICC100	VSTDICC100	VX021241.D	03/16/2021	12:10
VSTDICC150	VSTDICC150	VX021242.D	03/16/2021	12:33
VSTDICC001	VSTDICC001	VX021244.D	03/16/2021	13:21

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: M1770 SAS No.: M1770 SDG NO.: M1770

Lab File ID: VX021399.D BFB Injection Date: 03/23/2021

Instrument ID: MSVOA_X BFB Injection Time: 20:50

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.2
75	30.0 - 60.0% of mass 95	56.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	1 (1.5) 1
174	50.0 - 100.0% of mass 95	67.6
175	5.0 - 9.0% of mass 174	5.5 (8.2) 1
176	95.0 - 101.0% of mass 174	65.8 (97.4) 1
177	5.0 - 9.0% of mass 176	4.7 (7.1) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX021400.D	03/23/2021	21:13
VX0323WBL02	VX0323WBL02	VX021401.D	03/23/2021	22:24
VX0323WBS02	VX0323WBS02	VX021402.D	03/23/2021	22:47
TB-03222021	M1770-01	VX021404.D	03/23/2021	23:34
MW-106I	M1770-02	VX021409.D	03/24/2021	01:31
MW-106S	M1770-03	VX021410.D	03/24/2021	01:55
MW-105D	M1770-06	VX021411.D	03/24/2021	02:18
MW-105I	M1770-07	VX021412.D	03/24/2021	02:41
MW-105S	M1770-08	VX021413.D	03/24/2021	03:05
MW-106SMS	M1770-04MS	VX021418.D	03/24/2021	05:02
MW-106SMSD	M1770-05MSD	VX021419.D	03/24/2021	05:25

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: M1770 SAS No.: M1770 SDG NO.: M1770

Lab File ID: VX021422.D BFB Injection Date: 03/24/2021

Instrument ID: MSVOA_X BFB Injection Time: 08:21

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.9
75	30.0 - 60.0% of mass 95	57
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.7 (1.1) 1
174	50.0 - 100.0% of mass 95	68
175	5.0 - 9.0% of mass 174	5.6 (8.3) 1
176	95.0 - 101.0% of mass 174	64.6 (94.9) 1
177	5.0 - 9.0% of mass 176	4.7 (7.3) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC001	VSTDICC001	VX021424.D	03/24/2021	10:04
VSTDICC005	VSTDICC005	VX021425.D	03/24/2021	10:26
VSTDICC020	VSTDICC020	VX021426.D	03/24/2021	10:49
VSTDICCC050	VSTDICCC050	VX021427.D	03/24/2021	11:13
VSTDICC100	VSTDICC100	VX021428.D	03/24/2021	11:36
VSTDICC150	VSTDICC150	VX021429.D	03/24/2021	11:58

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: M1770 SAS No.: M1770 SDG NO.: M1770

Lab File ID: VX021448.D BFB Injection Date: 03/24/2021

Instrument ID: MSVOA_X BFB Injection Time: 20:43

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.2
75	30.0 - 60.0% of mass 95	56
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	0.7 (1) 1
174	50.0 - 100.0% of mass 95	68.5
175	5.0 - 9.0% of mass 174	5.6 (8.1) 1
176	95.0 - 101.0% of mass 174	66.3 (96.9) 1
177	5.0 - 9.0% of mass 176	4.9 (7.4) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX021449.D	03/24/2021	21:07
VX0324WBL02	VX0324WBL02	VX021450.D	03/24/2021	21:54
VX0324WBS02	VX0324WBS02	VX021451.D	03/24/2021	22:17
TB-03232021	M1770-09	VX021453.D	03/24/2021	23:04
MW-106D	M1770-10	VX021456.D	03/25/2021	00:14
MW-104D	M1770-11	VX021457.D	03/25/2021	00:38
MW-104I	M1770-12	VX021458.D	03/25/2021	01:01
MW-103D	M1770-13	VX021459.D	03/25/2021	01:25
MW-103I	M1770-14	VX021460.D	03/25/2021	01:48
MW-101S	M1770-15	VX021461.D	03/25/2021	02:12
MW-101I	M1770-16	VX021462.D	03/25/2021	02:35
MW-101D	M1770-17	VX021463.D	03/25/2021	02:59

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: M1770 SAS No.: M1770 SDG NO.: M1770

Lab File ID: VX021473.D BFB Injection Date: 03/25/2021

Instrument ID: MSVOA_X BFB Injection Time: 10:02

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.8
75	30.0 - 60.0% of mass 95	55.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.4
173	Less than 2.0% of mass 174	1 (1.5) 1
174	50.0 - 100.0% of mass 95	66.4
175	5.0 - 9.0% of mass 174	5.6 (8.4) 1
176	95.0 - 101.0% of mass 174	63.3 (95.4) 1
177	5.0 - 9.0% of mass 176	4.5 (7.1) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX021474.D	03/25/2021	10:34
VX0325WBL01	VX0325WBL01	VX021475.D	03/25/2021	11:08
VX0325WBS01	VX0325WBS01	VX021476.D	03/25/2021	11:41
FB-03232021	M1770-18	VX021489.D	03/25/2021	16:22

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: M1770 SAS No.: M1770 SDG NO.: M1770

Lab File ID: VX021502.D BFB Injection Date: 03/25/2021

Instrument ID: MSVOA_X BFB Injection Time: 21:46

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.6
75	30.0 - 60.0% of mass 95	57.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.2
173	Less than 2.0% of mass 174	0.6 (0.9) 1
174	50.0 - 100.0% of mass 95	69.4
175	5.0 - 9.0% of mass 174	5.3 (7.7) 1
176	95.0 - 101.0% of mass 174	68.6 (98.9) 1
177	5.0 - 9.0% of mass 176	4.2 (6.2) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX021503.D	03/25/2021	22:10
VX0325WBL02	VX0325WBL02	VX021504.D	03/25/2021	22:56
VX0325WBS02	VX0325WBS02	VX021505.D	03/25/2021	23:20
TB-03242021	M1770-19	VX021507.D	03/26/2021	00:07
MW-103S	M1770-20	VX021509.D	03/26/2021	00:54
MW-102D	M1770-21	VX021510.D	03/26/2021	01:17
MW-102S	M1770-22	VX021511.D	03/26/2021	01:41
MW-102I	M1770-23	VX021512.D	03/26/2021	02:04
MW-107I	M1770-24	VX021513.D	03/26/2021	02:28

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: M1770 SAS No.: M1770 SDG NO.: M1770

Lab File ID: VX021400.D Date Analyzed: 03/23/2021

Instrument ID: MSVOA_X Time Analyzed: 21:13

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	80721	5.63	134086	6.83	124006	10.09
UPPER LIMIT	161442	6.129	268172	7.329	248012	10.594
LOWER LIMIT	40360.5	5.129	67043	6.329	62003	9.594
EPA SAMPLE NO.						
TB-03222021	81653	5.63	131406	6.83	114021	10.09
MW-106I	75282	5.63	125781	6.83	110006	10.09
MW-106S	75778	5.64	126116	6.83	107108	10.09
MW-106SMS	71185	5.63	125469	6.83	116691	10.09
MW-106SMSD	72493	5.63	123414	6.83	115809	10.09
MW-105D	72987	5.63	122513	6.83	109731	10.09
MW-105I	72346	5.63	122475	6.83	101976	10.09
MW-105S	72568	5.63	124832	6.83	110876	10.09
VX0323WBL02	76437	5.63	127295	6.83	112714	10.09
VX0323WBS02	75973	5.63	127276	6.83	119546	10.09

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: M1770 SAS No.: M1770 SDG NO.: M1770

Lab File ID: VX021400.D Date Analyzed: 03/23/2021

Instrument ID: MSVOA_X Time Analyzed: 21:13

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	60262	12.059				
UPPER LIMIT	120524	12.559				
LOWER LIMIT	30131	11.559				
EPA SAMPLE NO.						
TB-03222021	46436	12.07				
MW-106I	43497	12.06				
MW-106S	39471	12.06				
MW-106SMS	56948	12.06				
MW-106SMSD	58720	12.06				
MW-105D	46721	12.06				
MW-105I	40701	12.07				
MW-105S	46173	12.06				
VX0323WBL02	48214	12.06				
VX0323WBS02	57254	12.06				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

 # Column used to flag values outside QC limits with an asterisk.
*** Values outside of QC limits.**

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: M1770 SAS No.: M1770 SDG NO.: M1770

Lab File ID: VX021449.D Date Analyzed: 03/24/2021

Instrument ID: MSVOA_X Time Analyzed: 21:07

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	80179	5.63	135574	6.83	126311	10.09
UPPER LIMIT	160358	6.129	271148	7.329	252622	10.594
LOWER LIMIT	40089.5	5.129	67787	6.329	63155.5	9.594
EPA SAMPLE NO.						
TB-03232021	70293	5.63	126632	6.83	122647	10.09
MW-106D	63699	5.63	113743	6.83	116029	10.09
MW-104D	62991	5.63	115679	6.83	115508	10.09
MW-104I	64531	5.63	116603	6.83	119137	10.09
MW-103D	65438	5.64	119483	6.83	117068	10.09
MW-103I	61137	5.63	111453	6.83	112706	10.09
MW-101S	65946	5.64	121750	6.83	123866	10.09
MW-101I	66386	5.64	121222	6.83	120059	10.09
MW-101D	62580	5.63	114996	6.83	116247	10.09
VX0324WBL02	67482	5.62	122924	6.83	122565	10.09
VX0324WBS02	74529	5.63	129238	6.83	120958	10.09

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: M1770 SAS No.: M1770 SDG NO.: M1770

Lab File ID: VX021449.D Date Analyzed: 03/24/2021

Instrument ID: MSVOA_X Time Analyzed: 21:07

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	60113	12.059				
UPPER LIMIT	120226	12.559				
LOWER LIMIT	30056.5	11.559				
EPA SAMPLE NO.						
TB-03232021	54830	12.06				
MW-106D	50608	12.06				
MW-104D	52374	12.06				
MW-104I	52387	12.06				
MW-103D	49490	12.06				
MW-103I	49979	12.06				
MW-101S	54424	12.06				
MW-101I	51264	12.06				
MW-101D	50564	12.07				
VX0324WBL02	53392	12.06				
VX0324WBS02	55840	12.07				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: M1770 SAS No.: M1770 SDG NO.: M1770

Lab File ID: VX021474.D Date Analyzed: 03/25/2021

Instrument ID: MSVOA_X Time Analyzed: 10:34

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	75148	5.62	122145	6.83	117244	10.09
UPPER LIMIT	150296	6.123	244290	7.329	234488	10.594
LOWER LIMIT	37574	5.123	61072.5	6.329	58622	9.594
EPA SAMPLE NO.						
FB-03232021	58992	5.63	107385	6.84	109133	10.09
VX0325WBL01	62161	5.63	114132	6.83	118720	10.09
VX0325WBS01	73424	5.62	122260	6.83	110375	10.09

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: M1770 SAS No.: M1770 SDG NO.: M1770

Lab File ID: VX021474.D Date Analyzed: 03/25/2021

Instrument ID: MSVOA_X Time Analyzed: 10:34

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	57037	12.059				
UPPER LIMIT	114074	12.559				
LOWER LIMIT	28518.5	11.559				
EPA SAMPLE NO.						
FB-03232021	48148	12.06				
VX0325WBL01	50726	12.06				
VX0325WBS01	55256	12.06				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

 # Column used to flag values outside QC limits with an asterisk.
*** Values outside of QC limits.**

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: M1770 SAS No.: M1770 SDG NO.: M1770

Lab File ID: VX021503.D Date Analyzed: 03/25/2021

Instrument ID: MSVOA_X Time Analyzed: 22:10

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	70566	5.63	118863	6.83	113402	10.09
UPPER LIMIT	141132	6.129	237726	7.329	226804	10.594
LOWER LIMIT	35283	5.129	59431.5	6.329	56701	9.594
EPA SAMPLE NO.						
TB-03242021	60861	5.63	112145	6.83	115397	10.09
MW-103S	63919	5.64	117125	6.83	117596	10.09
MW-102D	61507	5.64	112804	6.83	118206	10.09
MW-102S	62611	5.63	115760	6.83	118261	10.09
MW-102I	57950	5.62	107648	6.83	108864	10.09
MW-107I	63215	5.63	116828	6.83	116634	10.09
VX0325WBL02	63786	5.63	117547	6.84	119483	10.09
VX0325WBS02	71264	5.62	122698	6.83	111499	10.09

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: M1770 SAS No.: M1770 SDG NO.: M1770

Lab File ID: VX021503.D Date Analyzed: 03/25/2021

Instrument ID: MSVOA_X Time Analyzed: 22:10

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	54788	12.065				
UPPER LIMIT	109576	12.565				
LOWER LIMIT	27394	11.565				
EPA SAMPLE NO.						
TB-03242021	52896	12.07				
MW-103S	52001	12.06				
MW-102D	55308	12.06				
MW-102S	51355	12.06				
MW-102I	47526	12.06				
MW-107I	50214	12.06				
VX0325WBL02	54028	12.06				
VX0325WBS02	54697	12.07				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

QC SAMPLE DATA

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	
Client Sample ID:	VX0323WBL02	SDG No.:	M1770
Lab Sample ID:	VX0323WBL02	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021401.D	1		03/23/21 22:24	VX032321

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.23	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.20	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.19	1.00	ug/L
74-83-9	Bromomethane	5.00	U	0.87	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.35	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.25	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.26	1.00	ug/L
67-64-1	Acetone	5.00	U	1.60	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.25	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.22	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.47	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.18	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.19	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.21	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.30	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.90	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.27	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.22	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.26	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.27	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.14	1.00	ug/L
71-43-2	Benzene	1.00	U	0.18	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.25	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.17	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.17	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.20	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.87	5.00	ug/L
108-88-3	Toluene	1.00	U	0.22	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.18	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	
Client Sample ID:	VX0323WBL02	SDG No.:	M1770
Lab Sample ID:	VX0323WBL02	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021401.D	1		03/23/21 22:24	VX032321

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.24	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.92	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.17	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.17	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.32	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.19	1.00	ug/L
100-42-5	Styrene	1.00	U	0.16	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.23	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.29	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.47	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.30	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.35	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.0		78 - 117	98%	SPK: 50
1868-53-7	Dibromofluoromethane	50.4		75 - 124	101%	SPK: 50
2037-26-5	Toluene-d8	49.6		92 - 112	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.4		83 - 123	91%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	76400	5.629			
540-36-3	1,4-Difluorobenzene	127000	6.829			
3114-55-4	Chlorobenzene-d5	113000	10.094			
3855-82-1	1,4-Dichlorobenzene-d4	48200	12.059			

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	
Client Sample ID:	VX0323WBL02	SDG No.:	M1770
Lab Sample ID:	VX0323WBL02	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021401.D	1		03/23/21 22:24	VX032321

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	
Client Sample ID:	VX0324WBL02	SDG No.:	M1770
Lab Sample ID:	VX0324WBL02	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021450.D	1		03/24/21 21:54	VX032421

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.23	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.20	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.19	1.00	ug/L
74-83-9	Bromomethane	5.00	U	0.87	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.35	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.25	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.26	1.00	ug/L
67-64-1	Acetone	5.00	U	1.60	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.25	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.22	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.47	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.18	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.19	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.21	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.30	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.90	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.27	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.22	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.26	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.27	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.14	1.00	ug/L
71-43-2	Benzene	1.00	U	0.18	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.25	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.17	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.17	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.20	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.87	5.00	ug/L
108-88-3	Toluene	1.00	U	0.22	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.18	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	
Client Sample ID:	VX0324WBL02	SDG No.:	M1770
Lab Sample ID:	VX0324WBL02	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021450.D	1		03/24/21 21:54	VX032421

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.24	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.92	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.17	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.17	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.32	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.19	1.00	ug/L
100-42-5	Styrene	1.00	U	0.16	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.23	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.29	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.47	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.30	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.35	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.7		78 - 117	99%	SPK: 50
1868-53-7	Dibromofluoromethane	48.7		75 - 124	97%	SPK: 50
2037-26-5	Toluene-d8	49.9		92 - 112	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.6		83 - 123	103%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	67500	5.623			
540-36-3	1,4-Difluorobenzene	123000	6.829			
3114-55-4	Chlorobenzene-d5	123000	10.094			
3855-82-1	1,4-Dichlorobenzene-d4	53400	12.059			

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	
Client Sample ID:	VX0324WBL02	SDG No.:	M1770
Lab Sample ID:	VX0324WBL02	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021450.D	1		03/24/21 21:54	VX032421

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	
Client Sample ID:	VX0325WBL01	SDG No.:	M1770
Lab Sample ID:	VX0325WBL01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021475.D	1		03/25/21 11:08	VX032521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.23	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.20	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.19	1.00	ug/L
74-83-9	Bromomethane	5.00	U	0.87	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.35	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.25	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.26	1.00	ug/L
67-64-1	Acetone	5.00	U	1.60	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.25	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.22	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.47	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.18	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.19	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.21	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.30	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.90	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.27	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.22	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.26	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.27	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.14	1.00	ug/L
71-43-2	Benzene	1.00	U	0.18	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.25	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.17	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.17	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.20	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.87	5.00	ug/L
108-88-3	Toluene	1.00	U	0.22	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.18	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	
Client Sample ID:	VX0325WBL01	SDG No.:	M1770
Lab Sample ID:	VX0325WBL01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021475.D	1		03/25/21 11:08	VX032521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.24	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.92	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.17	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.17	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.32	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.19	1.00	ug/L
100-42-5	Styrene	1.00	U	0.16	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.23	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.29	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.47	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.30	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.35	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.6		78 - 117	103%	SPK: 50
1868-53-7	Dibromofluoromethane	49.7		75 - 124	99%	SPK: 50
2037-26-5	Toluene-d8	50.5		92 - 112	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.5		83 - 123	107%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	62200	5.629			
540-36-3	1,4-Difluorobenzene	114000	6.829			
3114-55-4	Chlorobenzene-d5	119000	10.094			
3855-82-1	1,4-Dichlorobenzene-d4	50700	12.059			

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	
Client Sample ID:	VX0325WBL01	SDG No.:	M1770
Lab Sample ID:	VX0325WBL01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021475.D	1		03/25/21 11:08	VX032521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	
Client Sample ID:	VX0325WBL02	SDG No.:	M1770
Lab Sample ID:	VX0325WBL02	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021504.D	1		03/25/21 22:56	VX032521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.23	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.20	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.19	1.00	ug/L
74-83-9	Bromomethane	5.00	U	0.87	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.35	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.25	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.26	1.00	ug/L
67-64-1	Acetone	5.00	U	1.60	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.25	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.22	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.47	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.18	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.19	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.21	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.30	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.90	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.27	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.22	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.26	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.27	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.14	1.00	ug/L
71-43-2	Benzene	1.00	U	0.18	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.25	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.17	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.17	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.20	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.87	5.00	ug/L
108-88-3	Toluene	1.00	U	0.22	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.18	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	
Client Sample ID:	VX0325WBL02	SDG No.:	M1770
Lab Sample ID:	VX0325WBL02	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021504.D	1		03/25/21 22:56	VX032521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.24	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.92	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.17	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.17	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.32	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.19	1.00	ug/L
100-42-5	Styrene	1.00	U	0.16	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.23	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.29	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.47	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.30	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.35	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.8		78 - 117	104%	SPK: 50
1868-53-7	Dibromofluoromethane	50.4		75 - 124	101%	SPK: 50
2037-26-5	Toluene-d8	50.6		92 - 112	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.0		83 - 123	106%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	63800	5.629			
540-36-3	1,4-Difluorobenzene	118000	6.835			
3114-55-4	Chlorobenzene-d5	119000	10.094			
3855-82-1	1,4-Dichlorobenzene-d4	54000	12.059			

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	
Client Sample ID:	VX0325WBL02	SDG No.:	M1770
Lab Sample ID:	VX0325WBL02	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021504.D	1		03/25/21 22:56	VX032521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	
Client Sample ID:	VX0323WBS02	SDG No.:	M1770
Lab Sample ID:	VX0323WBS02	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021402.D	1		03/23/21 22:47	VX032321

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	17.6		0.23	1.00	ug/L
74-87-3	Chloromethane	14.5		0.20	1.00	ug/L
75-01-4	Vinyl Chloride	18.7		0.19	1.00	ug/L
74-83-9	Bromomethane	21.5		0.87	5.00	ug/L
75-00-3	Chloroethane	19.3		0.35	1.00	ug/L
75-69-4	Trichlorofluoromethane	19.5		0.25	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	18.0		0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.8		0.26	1.00	ug/L
67-64-1	Acetone	100		1.60	5.00	ug/L
75-15-0	Carbon Disulfide	17.0		0.25	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	19.5		0.22	1.00	ug/L
79-20-9	Methyl Acetate	20.9		0.47	1.00	ug/L
75-09-2	Methylene Chloride	18.4		0.18	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	18.4		0.19	1.00	ug/L
75-34-3	1,1-Dichloroethane	19.5		0.21	1.00	ug/L
110-82-7	Cyclohexane	17.5		1.30	5.00	ug/L
78-93-3	2-Butanone	100		0.90	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.7		0.27	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.3		0.22	1.00	ug/L
74-97-5	Bromochloromethane	20.4		0.26	1.00	ug/L
67-66-3	Chloroform	20.2		0.27	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.5		0.20	1.00	ug/L
108-87-2	Methylcyclohexane	17.1		0.14	1.00	ug/L
71-43-2	Benzene	19.3		0.18	1.00	ug/L
107-06-2	1,2-Dichloroethane	19.7		0.25	1.00	ug/L
79-01-6	Trichloroethene	19.0		0.17	1.00	ug/L
78-87-5	1,2-Dichloropropane	19.8		0.17	1.00	ug/L
75-27-4	Bromodichloromethane	19.8		0.20	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	100		0.87	5.00	ug/L
108-88-3	Toluene	20.1		0.22	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	17.9		0.18	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	18.4		0.17	1.00	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	
Client Sample ID:	VX0323WBS02	SDG No.:	M1770
Lab Sample ID:	VX0323WBS02	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021402.D	1		03/23/21 22:47	VX032321

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	20.4		0.24	1.00	ug/L
591-78-6	2-Hexanone	100		0.92	5.00	ug/L
124-48-1	Dibromochloromethane	20.2		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	20.1		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	17.9		0.17	1.00	ug/L
108-90-7	Chlorobenzene	18.9		0.17	1.00	ug/L
100-41-4	Ethyl Benzene	18.8		0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	38.1		0.32	2.00	ug/L
95-47-6	o-Xylene	19.0		0.19	1.00	ug/L
100-42-5	Styrene	19.0		0.16	1.00	ug/L
75-25-2	Bromoform	19.4		0.19	1.00	ug/L
98-82-8	Isopropylbenzene	19.3		0.23	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	19.9		0.29	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	18.6		0.19	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	18.1		0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	18.4		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	18.1		0.47	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	18.3		0.30	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	19.1		0.35	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.2		78 - 117	100%	SPK: 50
1868-53-7	Dibromofluoromethane	51.2		75 - 124	102%	SPK: 50
2037-26-5	Toluene-d8	49.8		92 - 112	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.2		83 - 123	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	76000	5.629			
540-36-3	1,4-Difluorobenzene	127000	6.829			
3114-55-4	Chlorobenzene-d5	120000	10.094			
3855-82-1	1,4-Dichlorobenzene-d4	57300	12.059			

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	
Client Sample ID:	VX0323WBS02	SDG No.:	M1770
Lab Sample ID:	VX0323WBS02	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021402.D	1		03/23/21 22:47	VX032321

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	
Client Sample ID:	VX0324WBS02	SDG No.:	M1770
Lab Sample ID:	VX0324WBS02	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021451.D	1		03/24/21 22:17	VX032421

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	19.3		0.23	1.00	ug/L
74-87-3	Chloromethane	20.3		0.20	1.00	ug/L
75-01-4	Vinyl Chloride	19.9		0.19	1.00	ug/L
74-83-9	Bromomethane	23.0		0.87	5.00	ug/L
75-00-3	Chloroethane	19.8		0.35	1.00	ug/L
75-69-4	Trichlorofluoromethane	18.9		0.25	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.2		0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.9		0.26	1.00	ug/L
67-64-1	Acetone	97.0		1.60	5.00	ug/L
75-15-0	Carbon Disulfide	17.3		0.25	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	19.6		0.22	1.00	ug/L
79-20-9	Methyl Acetate	20.9		0.47	1.00	ug/L
75-09-2	Methylene Chloride	19.0		0.18	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	18.3		0.19	1.00	ug/L
75-34-3	1,1-Dichloroethane	19.6		0.21	1.00	ug/L
110-82-7	Cyclohexane	19.1		1.30	5.00	ug/L
78-93-3	2-Butanone	98.7		0.90	5.00	ug/L
56-23-5	Carbon Tetrachloride	18.4		0.27	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.2		0.22	1.00	ug/L
74-97-5	Bromochloromethane	19.4		0.26	1.00	ug/L
67-66-3	Chloroform	19.8		0.27	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.6		0.20	1.00	ug/L
108-87-2	Methylcyclohexane	17.9		0.14	1.00	ug/L
71-43-2	Benzene	18.9		0.18	1.00	ug/L
107-06-2	1,2-Dichloroethane	19.2		0.25	1.00	ug/L
79-01-6	Trichloroethene	18.8		0.17	1.00	ug/L
78-87-5	1,2-Dichloropropane	19.0		0.17	1.00	ug/L
75-27-4	Bromodichloromethane	18.8		0.20	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	97.3		0.87	5.00	ug/L
108-88-3	Toluene	19.2		0.22	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	17.8		0.18	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	17.9		0.17	1.00	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	
Client Sample ID:	VX0324WBS02	SDG No.:	M1770
Lab Sample ID:	VX0324WBS02	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021451.D	1		03/24/21 22:17	VX032421

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	19.0		0.24	1.00	ug/L
591-78-6	2-Hexanone	96.8		0.92	5.00	ug/L
124-48-1	Dibromochloromethane	18.6		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	18.5		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	18.9		0.17	1.00	ug/L
108-90-7	Chlorobenzene	18.6		0.17	1.00	ug/L
100-41-4	Ethyl Benzene	18.5		0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	37.2		0.32	2.00	ug/L
95-47-6	o-Xylene	18.3		0.19	1.00	ug/L
100-42-5	Styrene	18.3		0.16	1.00	ug/L
75-25-2	Bromoform	17.8		0.19	1.00	ug/L
98-82-8	Isopropylbenzene	19.7		0.23	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	19.6		0.29	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.3		0.19	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	18.2		0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	18.7		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	18.8		0.47	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	17.4		0.30	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	18.1		0.35	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.5		78 - 117	101%	SPK: 50
1868-53-7	Dibromofluoromethane	48.6		75 - 124	97%	SPK: 50
2037-26-5	Toluene-d8	48.1		92 - 112	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.0		83 - 123	94%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	74500	5.629			
540-36-3	1,4-Difluorobenzene	129000	6.829			
3114-55-4	Chlorobenzene-d5	121000	10.094			
3855-82-1	1,4-Dichlorobenzene-d4	55800	12.065			

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	
Client Sample ID:	VX0324WBS02	SDG No.:	M1770
Lab Sample ID:	VX0324WBS02	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021451.D	1		03/24/21 22:17	VX032421

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	
Client Sample ID:	VX0325WBS01	SDG No.:	M1770
Lab Sample ID:	VX0325WBS01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021476.D	1		03/25/21 11:41	VX032521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	18.8		0.23	1.00	ug/L
74-87-3	Chloromethane	19.6		0.20	1.00	ug/L
75-01-4	Vinyl Chloride	19.4		0.19	1.00	ug/L
74-83-9	Bromomethane	22.6		0.87	5.00	ug/L
75-00-3	Chloroethane	19.2		0.35	1.00	ug/L
75-69-4	Trichlorofluoromethane	19.6		0.25	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.9		0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.6		0.26	1.00	ug/L
67-64-1	Acetone	90.8		1.60	5.00	ug/L
75-15-0	Carbon Disulfide	17.2		0.25	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	18.9		0.22	1.00	ug/L
79-20-9	Methyl Acetate	20.4		0.47	1.00	ug/L
75-09-2	Methylene Chloride	18.3		0.18	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	18.7		0.19	1.00	ug/L
75-34-3	1,1-Dichloroethane	19.3		0.21	1.00	ug/L
110-82-7	Cyclohexane	19.0		1.30	5.00	ug/L
78-93-3	2-Butanone	93.6		0.90	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.3		0.27	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.0		0.22	1.00	ug/L
74-97-5	Bromochloromethane	18.6		0.26	1.00	ug/L
67-66-3	Chloroform	19.5		0.27	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.2		0.20	1.00	ug/L
108-87-2	Methylcyclohexane	18.7		0.14	1.00	ug/L
71-43-2	Benzene	19.1		0.18	1.00	ug/L
107-06-2	1,2-Dichloroethane	19.5		0.25	1.00	ug/L
79-01-6	Trichloroethene	18.8		0.17	1.00	ug/L
78-87-5	1,2-Dichloropropane	19.4		0.17	1.00	ug/L
75-27-4	Bromodichloromethane	19.0		0.20	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	95.8		0.87	5.00	ug/L
108-88-3	Toluene	19.0		0.22	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	18.1		0.18	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	18.9		0.17	1.00	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	
Client Sample ID:	VX0325WBS01	SDG No.:	M1770
Lab Sample ID:	VX0325WBS01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021476.D	1		03/25/21 11:41	VX032521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	19.4		0.24	1.00	ug/L
591-78-6	2-Hexanone	94.5		0.92	5.00	ug/L
124-48-1	Dibromochloromethane	19.1		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	18.6		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	20.1		0.17	1.00	ug/L
108-90-7	Chlorobenzene	19.1		0.17	1.00	ug/L
100-41-4	Ethyl Benzene	19.2		0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	39.1		0.32	2.00	ug/L
95-47-6	o-Xylene	19.2		0.19	1.00	ug/L
100-42-5	Styrene	19.3		0.16	1.00	ug/L
75-25-2	Bromoform	18.1		0.19	1.00	ug/L
98-82-8	Isopropylbenzene	19.1		0.23	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	18.9		0.29	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	18.8		0.19	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	18.3		0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.0		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	19.0		0.47	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	18.1		0.30	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	18.7		0.35	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.5		78 - 117	99%	SPK: 50
1868-53-7	Dibromofluoromethane	49.1		75 - 124	98%	SPK: 50
2037-26-5	Toluene-d8	48.5		92 - 112	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.5		83 - 123	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	73400	5.623			
540-36-3	1,4-Difluorobenzene	122000	6.829			
3114-55-4	Chlorobenzene-d5	110000	10.094			
3855-82-1	1,4-Dichlorobenzene-d4	55300	12.059			

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	
Client Sample ID:	VX0325WBS01	SDG No.:	M1770
Lab Sample ID:	VX0325WBS01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021476.D	1		03/25/21 11:41	VX032521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	
Client Sample ID:	VX0325WBS02	SDG No.:	M1770
Lab Sample ID:	VX0325WBS02	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021505.D	1		03/25/21 23:20	VX032521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	18.5		0.23	1.00	ug/L
74-87-3	Chloromethane	20.2		0.20	1.00	ug/L
75-01-4	Vinyl Chloride	19.1		0.19	1.00	ug/L
74-83-9	Bromomethane	23.5		0.87	5.00	ug/L
75-00-3	Chloroethane	19.3		0.35	1.00	ug/L
75-69-4	Trichlorofluoromethane	19.6		0.25	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.1		0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.6		0.26	1.00	ug/L
67-64-1	Acetone	98.7		1.60	5.00	ug/L
75-15-0	Carbon Disulfide	16.9		0.25	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	19.5		0.22	1.00	ug/L
79-20-9	Methyl Acetate	21.6		0.47	1.00	ug/L
75-09-2	Methylene Chloride	18.8		0.18	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	18.9		0.19	1.00	ug/L
75-34-3	1,1-Dichloroethane	19.3		0.21	1.00	ug/L
110-82-7	Cyclohexane	18.5		1.30	5.00	ug/L
78-93-3	2-Butanone	98.2		0.90	5.00	ug/L
56-23-5	Carbon Tetrachloride	18.8		0.27	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.1		0.22	1.00	ug/L
74-97-5	Bromochloromethane	20.3		0.26	1.00	ug/L
67-66-3	Chloroform	19.7		0.27	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.4		0.20	1.00	ug/L
108-87-2	Methylcyclohexane	17.1		0.14	1.00	ug/L
71-43-2	Benzene	18.5		0.18	1.00	ug/L
107-06-2	1,2-Dichloroethane	18.8		0.25	1.00	ug/L
79-01-6	Trichloroethene	18.1		0.17	1.00	ug/L
78-87-5	1,2-Dichloropropane	18.7		0.17	1.00	ug/L
75-27-4	Bromodichloromethane	18.5		0.20	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	96.4		0.87	5.00	ug/L
108-88-3	Toluene	18.5		0.22	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	16.9		0.18	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	17.1		0.17	1.00	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	
Client Sample ID:	VX0325WBS02	SDG No.:	M1770
Lab Sample ID:	VX0325WBS02	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021505.D	1		03/25/21 23:20	VX032521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	18.8		0.24	1.00	ug/L
591-78-6	2-Hexanone	95.2		0.92	5.00	ug/L
124-48-1	Dibromochloromethane	18.0		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	18.3		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	19.2		0.17	1.00	ug/L
108-90-7	Chlorobenzene	18.4		0.17	1.00	ug/L
100-41-4	Ethyl Benzene	18.4		0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	37.2		0.32	2.00	ug/L
95-47-6	o-Xylene	19.1		0.19	1.00	ug/L
100-42-5	Styrene	18.4		0.16	1.00	ug/L
75-25-2	Bromoform	18.6		0.19	1.00	ug/L
98-82-8	Isopropylbenzene	18.5		0.23	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	19.6		0.29	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	17.6		0.19	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	18.0		0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	18.5		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	18.9		0.47	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	17.3		0.30	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	17.4		0.35	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.6		78 - 117	101%	SPK: 50
1868-53-7	Dibromofluoromethane	48.0		75 - 124	96%	SPK: 50
2037-26-5	Toluene-d8	48.0		92 - 112	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.7		83 - 123	93%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	71300	5.623			
540-36-3	1,4-Difluorobenzene	123000	6.829			
3114-55-4	Chlorobenzene-d5	111000	10.094			
3855-82-1	1,4-Dichlorobenzene-d4	54700	12.065			

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	
Client Sample ID:	VX0325WBS02	SDG No.:	M1770
Lab Sample ID:	VX0325WBS02	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021505.D	1		03/25/21 23:20	VX032521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/22/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/22/21
Client Sample ID:	MW-106SMS	SDG No.:	M1770
Lab Sample ID:	M1770-04MS	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021418.D	1		03/24/21 05:02	VX032321

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	49.0		0.23	1.00	ug/L
74-87-3	Chloromethane	41.7		0.20	1.00	ug/L
75-01-4	Vinyl Chloride	50.6		0.19	1.00	ug/L
74-83-9	Bromomethane	45.7		0.87	5.00	ug/L
75-00-3	Chloroethane	56.6		0.35	1.00	ug/L
75-69-4	Trichlorofluoromethane	55.0		0.25	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	52.0		0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	51.0		0.26	1.00	ug/L
67-64-1	Acetone	290		1.60	5.00	ug/L
75-15-0	Carbon Disulfide	50.4		0.25	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	55.2		0.22	1.00	ug/L
79-20-9	Methyl Acetate	50.8		0.47	1.00	ug/L
75-09-2	Methylene Chloride	51.6		0.18	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	52.2		0.19	1.00	ug/L
75-34-3	1,1-Dichloroethane	54.3		0.21	1.00	ug/L
110-82-7	Cyclohexane	50.1		1.30	5.00	ug/L
78-93-3	2-Butanone	290		0.90	5.00	ug/L
56-23-5	Carbon Tetrachloride	52.3		0.27	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	53.6		0.22	1.00	ug/L
74-97-5	Bromochloromethane	53.5		0.26	1.00	ug/L
67-66-3	Chloroform	56.0		0.27	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	55.3		0.20	1.00	ug/L
108-87-2	Methylcyclohexane	48.4		0.14	1.00	ug/L
71-43-2	Benzene	51.7		0.18	1.00	ug/L
107-06-2	1,2-Dichloroethane	53.0		0.25	1.00	ug/L
79-01-6	Trichloroethene	51.1		0.17	1.00	ug/L
78-87-5	1,2-Dichloropropane	53.3		0.17	1.00	ug/L
75-27-4	Bromodichloromethane	54.3		0.20	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	280		0.87	5.00	ug/L
108-88-3	Toluene	52.5		0.22	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	49.2		0.18	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	48.6		0.17	1.00	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/22/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/22/21
Client Sample ID:	MW-106SMS	SDG No.:	M1770
Lab Sample ID:	M1770-04MS	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021418.D	1		03/24/21 05:02	VX032321

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	54.9		0.24	1.00	ug/L
591-78-6	2-Hexanone	280		0.92	5.00	ug/L
124-48-1	Dibromochloromethane	54.7		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	53.5		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	46.8		0.17	1.00	ug/L
108-90-7	Chlorobenzene	51.0		0.17	1.00	ug/L
100-41-4	Ethyl Benzene	49.7		0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	100		0.32	2.00	ug/L
95-47-6	o-Xylene	49.4		0.19	1.00	ug/L
100-42-5	Styrene	50.5		0.16	1.00	ug/L
75-25-2	Bromoform	55.2		0.19	1.00	ug/L
98-82-8	Isopropylbenzene	49.7		0.23	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	53.1		0.29	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	49.2		0.19	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	48.6		0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	50.4		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	50.3		0.47	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	48.9		0.30	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	52.2		0.35	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.6		78 - 117	105%	SPK: 50
1868-53-7	Dibromofluoromethane	49.9		75 - 124	100%	SPK: 50
2037-26-5	Toluene-d8	48.5		92 - 112	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.4		83 - 123	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	71200	5.629			
540-36-3	1,4-Difluorobenzene	125000	6.829			
3114-55-4	Chlorobenzene-d5	117000	10.094			
3855-82-1	1,4-Dichlorobenzene-d4	56900	12.059			

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/22/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/22/21
Client Sample ID:	MW-106SMS	SDG No.:	M1770
Lab Sample ID:	M1770-04MS	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021418.D	1		03/24/21 05:02	VX032321

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/22/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/22/21
Client Sample ID:	MW-106SMSD	SDG No.:	M1770
Lab Sample ID:	M1770-05MSD	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021419.D	1		03/24/21 05:25	VX032321

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	48.8		0.23	1.00	ug/L
74-87-3	Chloromethane	41.4		0.20	1.00	ug/L
75-01-4	Vinyl Chloride	50.2		0.19	1.00	ug/L
74-83-9	Bromomethane	40.4		0.87	5.00	ug/L
75-00-3	Chloroethane	51.7		0.35	1.00	ug/L
75-69-4	Trichlorofluoromethane	52.7		0.25	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	50.1		0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	50.1		0.26	1.00	ug/L
67-64-1	Acetone	280		1.60	5.00	ug/L
75-15-0	Carbon Disulfide	48.4		0.25	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	53.3		0.22	1.00	ug/L
79-20-9	Methyl Acetate	48.4		0.47	1.00	ug/L
75-09-2	Methylene Chloride	50.3		0.18	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	49.8		0.19	1.00	ug/L
75-34-3	1,1-Dichloroethane	52.8		0.21	1.00	ug/L
110-82-7	Cyclohexane	47.5		1.30	5.00	ug/L
78-93-3	2-Butanone	280		0.90	5.00	ug/L
56-23-5	Carbon Tetrachloride	52.1		0.27	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	51.3		0.22	1.00	ug/L
74-97-5	Bromochloromethane	52.7		0.26	1.00	ug/L
67-66-3	Chloroform	54.0		0.27	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	53.4		0.20	1.00	ug/L
108-87-2	Methylcyclohexane	46.7		0.14	1.00	ug/L
71-43-2	Benzene	52.4		0.18	1.00	ug/L
107-06-2	1,2-Dichloroethane	53.3		0.25	1.00	ug/L
79-01-6	Trichloroethene	51.3		0.17	1.00	ug/L
78-87-5	1,2-Dichloropropane	53.0		0.17	1.00	ug/L
75-27-4	Bromodichloromethane	54.0		0.20	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	280		0.87	5.00	ug/L
108-88-3	Toluene	53.1		0.22	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	49.6		0.18	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	48.1		0.17	1.00	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/22/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/22/21
Client Sample ID:	MW-106SMSD	SDG No.:	M1770
Lab Sample ID:	M1770-05MSD	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021419.D	1		03/24/21 05:25	VX032321

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	55.9		0.24	1.00	ug/L
591-78-6	2-Hexanone	290		0.92	5.00	ug/L
124-48-1	Dibromochloromethane	56.0		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	54.9		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	45.9		0.17	1.00	ug/L
108-90-7	Chlorobenzene	52.9		0.17	1.00	ug/L
100-41-4	Ethyl Benzene	51.2		0.18	1.00	ug/L
179601-23-1	m/p-Xylenes	100		0.32	2.00	ug/L
95-47-6	o-Xylene	52.7		0.19	1.00	ug/L
100-42-5	Styrene	53.5		0.16	1.00	ug/L
75-25-2	Bromoform	57.2		0.19	1.00	ug/L
98-82-8	Isopropylbenzene	49.5		0.23	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	53.0		0.29	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	49.5		0.19	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	50.9		0.20	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	51.4		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	50.4		0.47	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	48.6		0.30	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	50.6		0.35	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.5		78 - 117	99%	SPK: 50
1868-53-7	Dibromofluoromethane	50.1		75 - 124	100%	SPK: 50
2037-26-5	Toluene-d8	48.9		92 - 112	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.0		83 - 123	102%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	72500	5.629			
540-36-3	1,4-Difluorobenzene	123000	6.829			
3114-55-4	Chlorobenzene-d5	116000	10.094			
3855-82-1	1,4-Dichlorobenzene-d4	58700	12.059			

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/22/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/22/21
Client Sample ID:	MW-106SMSD	SDG No.:	M1770
Lab Sample ID:	M1770-05MSD	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX021419.D	1		03/24/21 05:25	VX032321

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CALIBRATION SUMMARY

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: M1770 SAS No.: M1770 SDG No.: M1770

Instrument ID: MSVOA_X Calibration Date(s): 03/16/2021 03/16/2021

Heated Purge: (Y/N) N Calibration Time(s): 11:00 13:21

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF005 = VX021238.D RRF020 = VX021239.D RRF050 = VX021240.D
RRF100 = VX021241.D RRF150 = VX021242.D RRF001 = VX021244.D

COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF150	RRF001	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.647	0.555	0.617	0.616	0.607	0.541	0.597	6.8
Chloromethane	1.278	0.831	0.885	0.861	0.825	2.250	1.155	48.8
Vinyl Chloride	0.643	0.565	0.632	0.623	0.624	0.563	0.608	5.8
Bromomethane	0.302	0.271	0.262	0.250	0.244		0.266	8.5
Chloroethane	0.422	0.359	0.386	0.378	0.369	0.316	0.372	9.3
Trichlorofluoromethane	0.969	0.895	0.991	0.939	0.925	0.784	0.917	8
1,1,2-Trichlorotrifluoroethane	0.557	0.485	0.543	0.534	0.540	0.477	0.523	6.4
1,1-Dichloroethene	0.541	0.477	0.523	0.520	0.529	0.469	0.510	5.8
Acetone	0.319	0.281	0.302	0.308	0.307	0.294	0.302	4.3
Carbon Disulfide	1.518	1.345	1.477	1.489	1.498	2.134	1.577	17.8
Methyl tert-butyl Ether	1.995	1.809	2.034	2.006	2.027	1.606	1.913	9
Methyl Acetate	0.821	0.747	0.818	0.811	0.827	0.938	0.827	7.5
Methylene Chloride	0.625	0.565	0.620	0.628	0.622	0.664	0.621	5.1
trans-1,2-Dichloroethene	0.556	0.516	0.583	0.581	0.581	0.598	0.569	5.2
1,1-Dichloroethane	1.143	1.022	1.136	1.124	1.130	0.985	1.090	6.3
Cyclohexane	1.022	0.914	1.024	1.005	0.991		0.991	4.5
2-Butanone	0.480	0.442	0.487	0.492	0.490	0.394	0.464	8.4
Carbon Tetrachloride	0.533	0.490	0.552	0.557	0.559	0.448	0.523	8.6
cis-1,2-Dichloroethene	0.666	0.613	0.676	0.675	0.677	0.617	0.654	4.7
Bromochloromethane	0.542	0.480	0.527	0.500	0.505	0.527	0.513	4.4
Chloroform	1.193	1.078	1.209	1.180	1.184	0.965	1.135	8.4
1,1,1-Trichloroethane	1.044	0.936	1.073	1.063	1.080	0.837	1.005	9.7
Methylcyclohexane	0.580	0.516	0.585	0.596	0.588	0.490	0.559	8
Benzene	1.476	1.305	1.459	1.486	1.452	1.152	1.388	9.6
1,2-Dichloroethane	0.641	0.564	0.617	0.626	0.615	0.531	0.599	7.1
Trichloroethene	0.392	0.334	0.379	0.386	0.384	0.338	0.369	7
1,2-Dichloropropane	0.386	0.351	0.393	0.406	0.389	0.314	0.373	9.2
Bromodichloromethane	0.567	0.509	0.580	0.599	0.575	0.454	0.547	10
4-Methyl-2-Pentanone	0.583	0.529	0.586	0.595	0.582	0.467	0.557	9
Toluene	0.892	0.809	0.915	0.936	0.888	0.711	0.859	9.8
t-1,3-Dichloropropene	0.562	0.527	0.609	0.646	0.628	0.511	0.581	9.6
cis-1,3-Dichloropropene	0.616	0.566	0.661	0.680	0.660	0.539	0.620	9.2
1,1,2-Trichloroethane	0.365	0.337	0.373	0.383	0.369	0.279	0.351	10.9

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: M1770 SAS No.: M1770 SDG No.: M1770

Instrument ID: MSVOA_X Calibration Date(s): 03/16/2021 03/16/2021

Heated Purge: (Y/N) N Calibration Time(s): 11:00 13:21

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF005 = VX021238.D RRF020 = VX021239.D RRF050 = VX021240.D
RRF100 = VX021241.D RRF150 = VX021242.D RRF001 = VX021244.D

COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF150	RRF001	$\overline{RRF}$	% RSD
2-Hexanone	0.428	0.401	0.442	0.448	0.447	0.335	0.417	10.5
Dibromochloromethane	0.391	0.377	0.431	0.451	0.440	0.310	0.400	13.2
1,2-Dibromoethane	0.395	0.347	0.398	0.417	0.406	0.346	0.385	7.9
Tetrachloroethene	0.408	0.342	0.367	0.391	0.373	0.360	0.373	6.2
Chlorobenzene	1.088	0.954	1.023	1.098	1.073	0.933	1.028	6.9
Ethyl Benzene	1.996	1.761	1.939	2.024	2.013	1.673	1.901	7.8
m/p-Xylenes	0.700	0.641	0.699	0.739	0.713	0.584	0.679	8.3
o-Xylene	0.694	0.625	0.675	0.710	0.698	0.559	0.660	8.8
Styrene	1.110	1.026	1.133	1.223	1.202	0.950	1.107	9.4
Bromoform	0.304	0.286	0.322	0.348	0.353	0.238	0.308	13.9
Isopropylbenzene	4.011	3.551	3.863	3.998	3.761	3.101	3.714	9.3
1,1,2,2-Tetrachloroethane	1.352	1.174	1.292	1.292	1.274	1.013	1.233	9.9
1,3-Dichlorobenzene	1.662	1.481	1.622	1.681	1.691	1.507	1.607	5.7
1,4-Dichlorobenzene	1.676	1.469	1.680	1.740	1.694	1.603	1.644	5.9
1,2-Dichlorobenzene	1.620	1.460	1.611	1.674	1.641	1.398	1.568	7.1
1,2-Dibromo-3-Chloropropane	0.352	0.283	0.320	0.337	0.336	0.269	0.316	10.5
1,2,4-Trichlorobenzene	0.986	0.887	1.056	1.099	1.181	0.974	1.030	10.1
1,2,3-Trichlorobenzene	1.003	0.921	1.095	1.087	1.084	0.968	1.026	7.1
1,2-Dichloroethane-d4	0.871	0.745	0.804	0.828	0.853		0.820	6
Dibromofluoromethane	0.355	0.295	0.334	0.357	0.361		0.340	8.1
Toluene-d8	1.299	1.075	1.204	1.298	1.296		1.234	8
4-Bromofluorobenzene	0.466	0.416	0.473	0.516	0.526		0.479	9.2

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: M1770 SAS No.: M1770 SDG No.: M1770

Instrument ID: MSVOA_X Calibration Date(s): 03/24/2021 03/24/2021

Heated Purge: (Y/N) N Calibration Time(s): 10:04 11:58

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF001 = VX021424.D RRF005 = VX021425.D RRF020 = VX021426.D
RRF050 = VX021427.D RRF100 = VX021428.D RRF150 = VX021429.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.557	0.560	0.518	0.554	0.574	0.534	0.550	3.7
Chloromethane	0.967	0.763	0.596	0.611	0.640	0.631	0.702	20.4
Vinyl Chloride	0.515	0.581	0.532	0.572	0.599	0.574	0.562	5.7
Bromomethane		0.249	0.229	0.220	0.220	0.213	0.226	6.1
Chloroethane	0.359	0.388	0.335	0.358	0.369	0.330	0.357	6.1
Trichlorofluoromethane	0.840	1.007	0.872	0.940	0.941	0.886	0.914	6.6
1,1,2-Trichlorotrifluoroethane	0.509	0.542	0.492	0.511	0.529	0.505	0.515	3.5
1,1-Dichloroethene	0.544	0.528	0.465	0.483	0.511	0.494	0.504	5.8
Acetone	0.337	0.319	0.281	0.307	0.319	0.325	0.315	6
Carbon Disulfide	1.764	1.372	1.249	1.353	1.392	1.359	1.415	12.6
Methyl tert-butyl Ether	1.705	1.924	1.752	1.905	1.993	2.010	1.882	6.7
Methyl Acetate	0.781	0.868	0.860	0.943	0.989	1.012	0.909	9.7
Methylene Chloride	0.662	0.641	0.551	0.596	0.612	0.620	0.614	6.2
trans-1,2-Dichloroethene	0.548	0.580	0.508	0.551	0.573	0.560	0.553	4.6
1,1-Dichloroethane	0.984	1.146	0.999	1.079	1.117	1.102	1.071	6.1
Cyclohexane		0.911	0.850	0.938	0.959	0.916	0.915	4.5
2-Butanone	0.435	0.501	0.437	0.479	0.501	0.509	0.477	7
Carbon Tetrachloride	0.477	0.560	0.486	0.546	0.555	0.534	0.526	6.8
cis-1,2-Dichloroethene	0.612	0.660	0.590	0.644	0.675	0.675	0.643	5.5
Bromochloromethane	0.564	0.611	0.494	0.505	0.521	0.522	0.536	8.1
Chloroform	1.004	1.192	1.065	1.149	1.182	1.192	1.131	6.9
1,1,1-Trichloroethane	0.909	1.051	0.942	1.023	1.054	1.031	1.002	6.1
Methylcyclohexane	0.519	0.545	0.493	0.571	0.576	0.555	0.543	5.9
Benzene	1.276	1.456	1.268	1.437	1.458	1.451	1.391	6.7
1,2-Dichloroethane	0.540	0.646	0.557	0.619	0.625	0.632	0.603	7.2
Trichloroethene	0.366	0.374	0.335	0.371	0.379	0.378	0.367	4.5
1,2-Dichloropropane	0.341	0.392	0.345	0.392	0.394	0.397	0.377	7
Bromodichloromethane	0.494	0.570	0.514	0.581	0.594	0.600	0.559	7.9
4-Methyl-2-Pentanone	0.461	0.568	0.534	0.597	0.618	0.617	0.566	10.7
Toluene	0.732	0.847	0.810	0.906	0.925	0.935	0.859	9.2
t-1,3-Dichloropropene	0.465	0.533	0.501	0.599	0.637	0.652	0.564	13.5
cis-1,3-Dichloropropene	0.493	0.592	0.544	0.639	0.661	0.674	0.601	11.8
1,1,2-Trichloroethane	0.304	0.366	0.347	0.379	0.391	0.390	0.363	9.1

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: M1770 SAS No.: M1770 SDG No.: M1770

Instrument ID: MSVOA_X Calibration Date(s): 03/24/2021 03/24/2021

Heated Purge: (Y/N) N Calibration Time(s): 10:04 11:58

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF001 = VX021424.D RRF005 = VX021425.D RRF020 = VX021426.D
RRF050 = VX021427.D RRF100 = VX021428.D RRF150 = VX021429.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
2-Hexanone	0.353	0.415	0.398	0.449	0.466	0.468	0.425	10.5
Dibromochloromethane	0.339	0.390	0.378	0.433	0.453	0.444	0.406	10.9
1,2-Dibromoethane	0.341	0.380	0.357	0.413	0.424	0.422	0.390	9.1
Tetrachloroethene	0.307	0.362	0.316	0.345	0.336	0.342	0.335	6
Chlorobenzene	0.909	1.053	0.910	1.029	1.075	1.052	1.004	7.5
Ethyl Benzene	1.628	1.851	1.703	1.900	1.989	1.914	1.831	7.5
m/p-Xylenes	0.543	0.662	0.613	0.686	0.720	0.690	0.652	9.9
o-Xylene	0.532	0.634	0.596	0.660	0.691	0.679	0.632	9.4
Styrene	0.935	1.038	1.013	1.133	1.213	1.187	1.086	10
Bromoform	0.287	0.298	0.286	0.325	0.341	0.339	0.313	8.1
Isopropylbenzene	3.009	3.659	3.259	3.757	3.772	3.624	3.513	8.8
1,1,2,2-Tetrachloroethane	1.158	1.299	1.206	1.260	1.261	1.264	1.241	4.1
1,3-Dichlorobenzene	1.495	1.609	1.412	1.595	1.660	1.638	1.568	6.1
1,4-Dichlorobenzene	1.740	1.648	1.463	1.606	1.616	1.660	1.622	5.6
1,2-Dichlorobenzene	1.414	1.587	1.427	1.537	1.591	1.592	1.525	5.5
1,2-Dibromo-3-Chloropropane	0.207	0.307	0.263	0.301	0.316	0.325	0.286	15.5
1,2,4-Trichlorobenzene	0.949	0.929	0.823	1.028	1.116	1.152	0.999	12.4
1,2,3-Trichlorobenzene	0.976	0.936	0.905	1.028	1.064	1.083	0.999	7.1
1,2-Dichloroethane-d4		0.893	0.772	0.781	0.837	0.877	0.832	6.6
Dibromofluoromethane		0.377	0.320	0.337	0.364	0.378	0.355	7.2
Toluene-d8		1.249	1.150	1.242	1.315	1.372	1.266	6.6
4-Bromofluorobenzene		0.479	0.441	0.476	0.521	0.544	0.492	8.2

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: M1770 SAS No.: M1770 SDG No.: M1770

Instrument ID: MSVOA_X Calibration Date/Time: 03/23/2021 21:13

Lab File ID: VX021400.D Init. Calib. Date(s): 03/16/2021 03/16/2021

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:00 13:21

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.597	0.559		-6.36	20
Chloromethane	1.155	0.685	0.1	-40.69	20
Vinyl Chloride	0.608	0.586		-3.62	20
Bromomethane	0.266	0.279		4.89	20
Chloroethane	0.372	0.365		-1.88	20
Trichlorofluoromethane	0.917	0.944		2.94	20
1,1,2-Trichlorotrifluoroethane	0.523	0.515		-1.53	20
1,1-Dichloroethene	0.510	0.502		-1.57	20
Acetone	0.302	0.326		7.95	20
Carbon Disulfide	1.577	1.302		-17.44	20
Methyl tert-butyl Ether	1.913	1.985		3.76	20
Methyl Acetate	0.827	0.892		7.86	20
Methylene Chloride	0.621	0.606		-2.41	20
trans-1,2-Dichloroethene	0.569	0.554		-2.64	20
1,1-Dichloroethane	1.090	1.109	0.1	1.74	20
Cyclohexane	0.991	0.937		-5.45	20
2-Butanone	0.464	0.508		9.48	20
Carbon Tetrachloride	0.523	0.543		3.82	20
cis-1,2-Dichloroethene	0.654	0.670		2.45	20
Bromochloromethane	0.513	0.510		-0.58	20
Chloroform	1.135	1.191		4.93	20
1,1,1-Trichloroethane	1.005	1.054		4.88	20
Methylcyclohexane	0.559	0.554		-0.89	20
Benzene	1.388	1.458		5.04	20
1,2-Dichloroethane	0.599	0.625		4.34	20
Trichloroethene	0.369	0.374		1.36	20
1,2-Dichloropropane	0.373	0.389		4.29	20
Bromodichloromethane	0.547	0.586		7.13	20
4-Methyl-2-Pentanone	0.557	0.619		11.13	20
Toluene	0.859	0.923		7.45	20
t-1,3-Dichloropropene	0.581	0.597		2.75	20
cis-1,3-Dichloropropene	0.620	0.635		2.42	20
1,1,2-Trichloroethane	0.351	0.383		9.12	20
2-Hexanone	0.417	0.464		11.27	20
Dibromochloromethane	0.400	0.435		8.75	20
1,2-Dibromoethane	0.385	0.413		7.27	20
Tetrachloroethene	0.373	0.359		-3.75	20
Chlorobenzene	1.028	1.060	0.3	3.11	20
Ethyl Benzene	1.901	1.954		2.79	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: M1770 SAS No.: M1770 SDG No.: M1770

Instrument ID: MSVOA_X Calibration Date/Time: 03/23/2021 21:13

Lab File ID: VX021400.D Init. Calib. Date(s): 03/16/2021 03/16/2021

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:00 13:21

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
m/p-Xylenes	0.679	0.699		2.95	20
o-Xylene	0.660	0.694		5.15	20
Styrene	1.107	1.174		6.05	20
Bromoform	0.308	0.327	0.1	6.17	20
Isopropylbenzene	3.714	3.852		3.72	20
1,1,2,2-Tetrachloroethane	1.233	1.313	0.3	6.49	20
1,3-Dichlorobenzene	1.607	1.642		2.18	20
1,4-Dichlorobenzene	1.644	1.624		-1.22	20
1,2-Dichlorobenzene	1.568	1.625		3.63	20
1,2-Dibromo-3-Chloropropane	0.316	0.319		0.95	20
1,2,4-Trichlorobenzene	1.030	1.103		7.09	20
1,2,3-Trichlorobenzene	1.026	1.072		4.48	20
1,2-Dichloroethane-d4	0.820	0.793		-3.29	20
Dibromofluoromethane	0.340	0.342		0.59	20
Toluene-d8	1.234	1.220		-1.13	20
4-Bromofluorobenzene	0.479	0.472		-1.46	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: M1770 SAS No.: M1770 SDG No.: M1770

Instrument ID: MSVOA_X Calibration Date/Time: 03/24/2021 21:07

Lab File ID: VX021449.D Init. Calib. Date(s): 03/24/2021 03/24/2021

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:04 11:58

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.550	0.554		0.73	20
Chloromethane	0.702	0.642	0.1	-8.55	20
Vinyl Chloride	0.562	0.581		3.38	20
Bromomethane	0.226	0.244		7.97	20
Chloroethane	0.357	0.355		-0.56	20
Trichlorofluoromethane	0.914	0.927		1.42	20
1,1,2-Trichlorotrifluoroethane	0.515	0.513		-0.39	20
1,1-Dichloroethene	0.504	0.502		-0.4	20
Acetone	0.315	0.316		0.32	20
Carbon Disulfide	1.415	1.305		-7.77	20
Methyl tert-butyl Ether	1.882	1.969		4.62	20
Methyl Acetate	0.909	0.979		7.7	20
Methylene Chloride	0.614	0.607		-1.14	20
trans-1,2-Dichloroethene	0.553	0.550		-0.54	20
1,1-Dichloroethane	1.071	1.093	0.1	2.05	20
Cyclohexane	0.915	0.929		1.53	20
2-Butanone	0.477	0.494		3.56	20
Carbon Tetrachloride	0.526	0.528		0.38	20
cis-1,2-Dichloroethene	0.643	0.656		2.02	20
Bromochloromethane	0.536	0.519		-3.17	20
Chloroform	1.131	1.176		3.98	20
1,1,1-Trichloroethane	1.002	1.023		2.1	20
Methylcyclohexane	0.543	0.537		-1.11	20
Benzene	1.391	1.413		1.58	20
1,2-Dichloroethane	0.603	0.613		1.66	20
Trichloroethene	0.367	0.360		-1.91	20
1,2-Dichloropropane	0.377	0.385		2.12	20
Bromodichloromethane	0.559	0.569		1.79	20
4-Methyl-2-Pentanone	0.566	0.596		5.3	20
Toluene	0.859	0.893		3.96	20
t-1,3-Dichloropropene	0.564	0.571		1.24	20
cis-1,3-Dichloropropene	0.601	0.613		2	20
1,1,2-Trichloroethane	0.363	0.374		3.03	20
2-Hexanone	0.425	0.447		5.18	20
Dibromochloromethane	0.406	0.432		6.4	20
1,2-Dibromoethane	0.390	0.405		3.85	20
Tetrachloroethene	0.335	0.343		2.39	20
Chlorobenzene	1.004	1.038	0.3	3.39	20
Ethyl Benzene	1.831	1.894		3.44	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: M1770 SAS No.: M1770 SDG No.: M1770

Instrument ID: MSVOA_X Calibration Date/Time: 03/24/2021 21:07

Lab File ID: VX021449.D Init. Calib. Date(s): 03/24/2021 03/24/2021

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:04 11:58

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
m/p-Xylenes	0.652	0.678		3.99	20
o-Xylene	0.632	0.658		4.11	20
Styrene	1.086	1.134		4.42	20
Bromoform	0.313	0.317	0.1	1.28	20
Isopropylbenzene	3.513	3.780		7.6	20
1,1,2,2-Tetrachloroethane	1.241	1.288	0.3	3.79	20
1,3-Dichlorobenzene	1.568	1.630		3.95	20
1,4-Dichlorobenzene	1.622	1.611		-0.68	20
1,2-Dichlorobenzene	1.525	1.610		5.57	20
1,2-Dibromo-3-Chloropropane	0.286	0.302		5.59	20
1,2,4-Trichlorobenzene	0.999	1.021		2.2	20
1,2,3-Trichlorobenzene	0.999	1.030		3.1	20
1,2-Dichloroethane-d4	0.832	0.810		-2.64	20
Dibromofluoromethane	0.355	0.341		-3.94	20
Toluene-d8	1.266	1.219		-3.71	20
4-Bromofluorobenzene	0.492	0.481		-2.24	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: M1770 SAS No.: M1770 SDG No.: M1770

Instrument ID: MSVOA_X Calibration Date/Time: 03/25/2021 10:34

Lab File ID: VX021474.D Init. Calib. Date(s): 03/24/2021 03/24/2021

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:04 11:58

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.550	0.545		-0.91	20
Chloromethane	0.702	0.657	0.1	-6.41	20
Vinyl Chloride	0.562	0.577		2.67	20
Bromomethane	0.226	0.245		8.41	20
Chloroethane	0.357	0.358		0.28	20
Trichlorofluoromethane	0.914	0.935		2.3	20
1,1,2-Trichlorotrifluoroethane	0.515	0.531		3.11	20
1,1-Dichloroethene	0.504	0.481		-4.56	20
Acetone	0.315	0.329		4.44	20
Carbon Disulfide	1.415	1.302		-7.99	20
Methyl tert-butyl Ether	1.882	1.884		0.11	20
Methyl Acetate	0.909	0.957		5.28	20
Methylene Chloride	0.614	0.596		-2.93	20
trans-1,2-Dichloroethene	0.553	0.549		-0.72	20
1,1-Dichloroethane	1.071	1.084	0.1	1.21	20
Cyclohexane	0.915	0.934		2.08	20
2-Butanone	0.477	0.480		0.63	20
Carbon Tetrachloride	0.526	0.556		5.7	20
cis-1,2-Dichloroethene	0.643	0.636		-1.09	20
Bromochloromethane	0.536	0.510		-4.85	20
Chloroform	1.131	1.146		1.33	20
1,1,1-Trichloroethane	1.002	1.010		0.8	20
Methylcyclohexane	0.543	0.571		5.16	20
Benzene	1.391	1.441		3.6	20
1,2-Dichloroethane	0.603	0.631		4.64	20
Trichloroethene	0.367	0.373		1.63	20
1,2-Dichloropropane	0.377	0.392		3.98	20
Bromodichloromethane	0.559	0.588		5.19	20
4-Methyl-2-Pentanone	0.566	0.601		6.18	20
Toluene	0.859	0.916		6.64	20
t-1,3-Dichloropropene	0.564	0.600		6.38	20
cis-1,3-Dichloropropene	0.601	0.640		6.49	20
1,1,2-Trichloroethane	0.363	0.393		8.26	20
2-Hexanone	0.425	0.457		7.53	20
Dibromochloromethane	0.406	0.454		11.82	20
1,2-Dibromoethane	0.390	0.407		4.36	20
Tetrachloroethene	0.335	0.354		5.67	20
Chlorobenzene	1.004	1.039	0.3	3.49	20
Ethyl Benzene	1.831	1.943		6.12	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: M1770 SAS No.: M1770 SDG No.: M1770

Instrument ID: MSVOA_X Calibration Date/Time: 03/25/2021 10:34

Lab File ID: VX021474.D Init. Calib. Date(s): 03/24/2021 03/24/2021

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:04 11:58

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
m/p-Xylenes	0.652	0.699		7.21	20
o-Xylene	0.632	0.670		6.01	20
Styrene	1.086	1.158		6.63	20
Bromoform	0.313	0.329	0.1	5.11	20
Isopropylbenzene	3.513	3.894		10.85	20
1,1,2,2-Tetrachloroethane	1.241	1.302	0.3	4.91	20
1,3-Dichlorobenzene	1.568	1.694		8.04	20
1,4-Dichlorobenzene	1.622	1.738		7.15	20
1,2-Dichlorobenzene	1.525	1.630		6.89	20
1,2-Dibromo-3-Chloropropane	0.286	0.302		5.59	20
1,2,4-Trichlorobenzene	0.999	1.082		8.31	20
1,2,3-Trichlorobenzene	0.999	1.047		4.8	20
1,2-Dichloroethane-d4	0.832	0.804		-3.37	20
Dibromofluoromethane	0.355	0.344		-3.1	20
Toluene-d8	1.266	1.269		0.24	20
4-Bromofluorobenzene	0.492	0.500		1.63	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: M1770 SAS No.: M1770 SDG No.: M1770

Instrument ID: MSVOA_X Calibration Date/Time: 03/25/2021 22:10

Lab File ID: VX021503.D Init. Calib. Date(s): 03/24/2021 03/24/2021

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:04 11:58

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.550	0.564		2.55	20
Chloromethane	0.702	0.682	0.1	-2.85	20
Vinyl Chloride	0.562	0.598		6.41	20
Bromomethane	0.226	0.270		19.47	20
Chloroethane	0.357	0.375		5.04	20
Trichlorofluoromethane	0.914	0.970		6.13	20
1,1,2-Trichlorotrifluoroethane	0.515	0.542		5.24	20
1,1-Dichloroethene	0.504	0.514		1.98	20
Acetone	0.315	0.337		6.98	20
Carbon Disulfide	1.415	1.302		-7.99	20
Methyl tert-butyl Ether	1.882	2.034		8.08	20
Methyl Acetate	0.909	1.048		15.29	20
Methylene Chloride	0.614	0.626		1.95	20
trans-1,2-Dichloroethene	0.553	0.571		3.26	20
1,1-Dichloroethane	1.071	1.134	0.1	5.88	20
Cyclohexane	0.915	0.949		3.72	20
2-Butanone	0.477	0.515		7.97	20
Carbon Tetrachloride	0.526	0.548		4.18	20
cis-1,2-Dichloroethene	0.643	0.669		4.04	20
Bromochloromethane	0.536	0.545		1.68	20
Chloroform	1.131	1.221		7.96	20
1,1,1-Trichloroethane	1.002	1.069		6.69	20
Methylcyclohexane	0.543	0.537		-1.11	20
Benzene	1.391	1.465		5.32	20
1,2-Dichloroethane	0.603	0.640		6.14	20
Trichloroethene	0.367	0.380		3.54	20
1,2-Dichloropropane	0.377	0.400		6.1	20
Bromodichloromethane	0.559	0.586		4.83	20
4-Methyl-2-Pentanone	0.566	0.630		11.31	20
Toluene	0.859	0.918		6.87	20
t-1,3-Dichloropropene	0.564	0.589		4.43	20
cis-1,3-Dichloropropene	0.601	0.621		3.33	20
1,1,2-Trichloroethane	0.363	0.388		6.89	20
2-Hexanone	0.425	0.477		12.23	20
Dibromochloromethane	0.406	0.439		8.13	20
1,2-Dibromoethane	0.390	0.417		6.92	20
Tetrachloroethene	0.335	0.355		5.97	20
Chlorobenzene	1.004	1.031	0.3	2.69	20
Ethyl Benzene	1.831	1.884		2.89	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: M1770 SAS No.: M1770 SDG No.: M1770

Instrument ID: MSVOA_X Calibration Date/Time: 03/25/2021 22:10

Lab File ID: VX021503.D Init. Calib. Date(s): 03/24/2021 03/24/2021

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:04 11:58

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
m/p-Xylenes	0.652	0.693		6.29	20
o-Xylene	0.632	0.670		6.01	20
Styrene	1.086	1.155		6.35	20
Bromoform	0.313	0.334	0.1	6.71	20
Isopropylbenzene	3.513	3.805		8.31	20
1,1,2,2-Tetrachloroethane	1.241	1.350	0.3	8.78	20
1,3-Dichlorobenzene	1.568	1.687		7.59	20
1,4-Dichlorobenzene	1.622	1.709		5.36	20
1,2-Dichlorobenzene	1.525	1.656		8.59	20
1,2-Dibromo-3-Chloropropane	0.286	0.329		15.03	20
1,2,4-Trichlorobenzene	0.999	1.065		6.61	20
1,2,3-Trichlorobenzene	0.999	1.060		6.11	20
1,2-Dichloroethane-d4	0.832	0.841		1.08	20
Dibromofluoromethane	0.355	0.358		0.85	20
Toluene-d8	1.266	1.277		0.87	20
4-Bromofluorobenzene	0.492	0.496		0.81	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

CHEMTECH

284 Sheffield Street, Mountainside, New Jersey - 07092

Phone: (908) 789 8900 Fax: (908) 789 8922

LAB CHRONICLE

OrderID:	M1770	**OrderDate:**	3/22/2021 4:40:20 PM
Client:	TRC Companies, Inc.	**Project:**	NYCDPR Bush Terminal LandFill Piers 1-4
Contact:	James Peronto, P.E., LEED AP	**Location:**	J52,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
M1770-02	**MW-106I**	**Water**			**03/22/21**			**03/22/21**
			SVOCMS Group1	8270E		03/23/21	03/24/21	
M1770-03	**MW-106S**	**Water**			**03/22/21**			**03/22/21**
			SVOCMS Group1	8270E		03/23/21	03/24/21	
M1770-06	**MW-105D**	**Water**			**03/22/21**			**03/22/21**
			SVOCMS Group1	8270E		03/23/21	03/24/21	
M1770-07	**MW-105I**	**Water**			**03/22/21**			**03/22/21**
			SVOCMS Group1	8270E		03/23/21	03/24/21	
M1770-08	**MW-105S**	**Water**			**03/22/21**			**03/22/21**
			SVOCMS Group1	8270E		03/23/21	03/24/21	
M1770-10	**MW-106D**	**Water**			**03/23/21**			**03/23/21**
			SVOCMS Group1	8270E		03/25/21	03/25/21	
M1770-11	**MW-104D**	**Water**			**03/23/21**			**03/23/21**
			SVOCMS Group1	8270E		03/25/21	03/26/21	
M1770-12	**MW-104I**	**Water**			**03/23/21**			**03/23/21**
			SVOCMS Group1	8270E		03/25/21	03/26/21	
M1770-13	**MW-103D**	**Water**			**03/23/21**			**03/23/21**
			SVOCMS Group1	8270E		03/25/21	03/26/21	
M1770-14	**MW-103I**	**Water**			**03/23/21**			**03/23/21**
			SVOCMS Group1	8270E		03/25/21	03/26/21	
M1770-15	**MW-101S**	**Water**			**03/23/21**			**03/23/21**
			SVOCMS Group1	8270E		03/25/21	03/26/21	
M1770-16	**MW-101I**	**Water**			**03/23/21**			**03/23/21**
			SVOCMS Group1	8270E		03/25/21	03/26/21	

CHEMTECH
284 Sheffield Street, Mountainside, New Jersey - 07092
Phone: (908) 789 8900 Fax: (908) 789 8922

LAB CHRONICLE

M1770-17	**MW-101D**	**Water**			**03/23/21**			**03/23/21**
			SVOCMS Group1	8270E		03/25/21	03/29/21	
M1770-18	**FB-03232021**	**Water**			**03/23/21**			**03/23/21**
			SVOCMS Group1	8270E		03/25/21	03/29/21	
M1770-20	**MW-103S**	**Water**			**03/24/21**			**03/24/21**
			SVOCMS Group1	8270E		03/25/21	03/29/21	
M1770-21	**MW-102D**	**Water**			**03/24/21**			**03/24/21**
			SVOCMS Group1	8270E		03/25/21	03/31/21	
M1770-21RE	**MW-102DRE**	**Water**			**03/24/21**			**03/24/21**
			SVOCMS Group1	8270E		03/25/21	04/01/21	
M1770-22	**MW-102S**	**Water**			**03/24/21**			**03/24/21**
			SVOCMS Group1	8270E		03/25/21	03/26/21	
M1770-23	**MW-102I**	**Water**			**03/24/21**			**03/24/21**
			SVOCMS Group1	8270E		03/25/21	03/26/21	
M1770-24	**MW-107I**	**Water**			**03/24/21**			**03/24/21**
			SVOCMS Group1	8270E		03/25/21	03/26/21	

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: M1770

Client: TRC Companies, Inc.

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
Client ID : MW-106I								
M1770-02	MW-106I	WATER	Phenol	3.400	J	1.5	5	ug/L
			Total Svoc :	**3.40**				
			Total Concentration:	**3.40**				
Client ID : MW-106S								
M1770-03	MW-106S	WATER	Phenol	2.100	J	1.5	5	ug/L
			Total Svoc :	**2.10**				
			Total Concentration:	**2.10**				
Client ID : MW-105D								
M1770-06	MW-105D	WATER	Phenol	3.400	J	1.5	5	ug/L
M1770-06	MW-105D	WATER	Caprolactam	11.000		2.6	10	ug/L
			Total Svoc :	**14.40**				
			Total Concentration:	**14.40**				
Client ID : MW-105I								
M1770-07	MW-105I	WATER	Phenol	3.300	J	1.5	5	ug/L
			Total Svoc :	**3.30**				
			Total Concentration:	**3.30**				
Client ID : MW-105S								
M1770-08	MW-105S	WATER	Phenol	3.000	J	1.5	5	ug/L
			Total Svoc :	**3.00**				
			Total Concentration:	**3.00**				
Client ID : MW-106D								
M1770-10	MW-106D	WATER	Dimethylphthalate	4.400	J	1.8	5	ug/L
			Total Svoc :	**4.40**				
			Total Concentration:	**4.40**				
Client ID : MW-103D								
M1770-13	MW-103D	WATER	Phenol	2.100	J	1.5	5	ug/L
M1770-13	MW-103D	WATER	Caprolactam	11.200		2.6	10	ug/L
			Total Svoc :	**13.30**				
			Total Concentration:	**13.30**				
Client ID : MW-103I								
M1770-14	MW-103I	WATER	Phenol	2.400	J	1.5	5	ug/L
M1770-14	MW-103I	WATER	Caprolactam	10.700		2.6	10	ug/L
			Total Svoc :	**13.10**				
			Total Concentration:	**13.10**				
Client ID : MW-101S								
M1770-15	MW-101S	WATER	Phenol	2.200	J	1.5	5	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: M1770

Client: TRC Companies, Inc.

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
M1770-15	MW-101S	WATER	Caprolactam	7.100	J	2.6	10	ug/L
			Total Svoc :	**9.30**				
			Total Concentration:	**9.30**				
Client ID :	**MW-101I**							
M1770-16	MW-101I	WATER	Caprolactam	10.100		2.6	10	ug/L
			Total Svoc :	**10.10**				
			Total Concentration:	**10.10**				
Client ID :	**MW-101D**							
M1770-17	MW-101D	WATER	Phenol	3.600	J	1.5	5	ug/L
M1770-17	MW-101D	WATER	Caprolactam	8.000	J	2.6	10	ug/L
M1770-17	MW-101D	WATER	Bis(2-ethylhexyl)phthalate	3.700	J	2.8	5	ug/L
			Total Svoc :	**15.30**				
			Total Concentration:	**15.30**				
Client ID :	**FB-03232021**							
M1770-18	FB-03232021	WATER	Phenol	3.000	J	1.5	5	ug/L
M1770-18	FB-03232021	WATER	Bis(2-ethylhexyl)phthalate	3.700	J	2.8	5	ug/L
			Total Svoc :	**6.70**				
			Total Concentration:	**6.70**				
Client ID :	**MW-103S**							
M1770-20	MW-103S	WATER	Phenol	2.100	J	1.5	5	ug/L
M1770-20	MW-103S	WATER	Naphthalene	4.200	J	1.9	5	ug/L
M1770-20	MW-103S	WATER	Caprolactam	9.000	J	2.6	10	ug/L
M1770-20	MW-103S	WATER	Dimethylphthalate	2.700	J	1.8	5	ug/L
M1770-20	MW-103S	WATER	Acenaphthene	4.600	J	2.3	5	ug/L
M1770-20	MW-103S	WATER	Bis(2-ethylhexyl)phthalate	3.800	J	2.8	5	ug/L
			Total Svoc :	**26.40**				
			Total Concentration:	**26.40**				
Client ID :	**MW-102I**							
M1770-23	MW-102I	WATER	Dimethylphthalate	2.400	J	1.8	5	ug/L
			Total Svoc :	**2.40**				
			Total Concentration:	**2.40**				

SAMPLE DATA

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/22/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/22/21
Client Sample ID:	MW-106I	SDG No.:	M1770
Lab Sample ID:	M1770-02	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF123444.D	1	03/23/21 10:20	03/24/21 17:50	PB135304

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.0	U	3.60	10.0	ug/L
108-95-2	Phenol	3.40	J	1.50	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	5.00	U	1.40	5.00	ug/L
95-57-8	2-Chlorophenol	5.00	U	1.40	5.00	ug/L
95-48-7	2-Methylphenol	5.00	U	1.90	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	5.00	U	1.60	5.00	ug/L
98-86-2	Acetophenone	5.00	U	1.90	5.00	ug/L
65794-96-9	3+4-Methylphenols	10.0	U	3.90	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	5.00	U	1.70	5.00	ug/L
67-72-1	Hexachloroethane	5.00	U	1.60	5.00	ug/L
98-95-3	Nitrobenzene	5.00	U	1.60	5.00	ug/L
78-59-1	Isophorone	5.00	U	2.00	5.00	ug/L
88-75-5	2-Nitrophenol	5.00	U	1.90	5.00	ug/L
105-67-9	2,4-Dimethylphenol	5.00	U	2.30	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	5.00	U	2.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	5.00	U	1.90	5.00	ug/L
91-20-3	Naphthalene	5.00	U	1.90	5.00	ug/L
106-47-8	4-Chloroaniline	5.00	U	2.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	5.00	U	1.90	5.00	ug/L
105-60-2	Caprolactam	10.0	U	2.60	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	5.00	U	1.90	5.00	ug/L
91-57-6	2-Methylnaphthalene	5.00	U	2.20	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	10.0	U	4.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	5.00	U	1.70	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	5.00	U	1.80	5.00	ug/L
92-52-4	1,1-Biphenyl	5.00	U	2.20	5.00	ug/L
91-58-7	2-Chloronaphthalene	5.00	U	1.90	5.00	ug/L
88-74-4	2-Nitroaniline	5.00	U	1.70	5.00	ug/L
131-11-3	Dimethylphthalate	5.00	U	1.80	5.00	ug/L
208-96-8	Acenaphthylene	5.00	U	2.10	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	5.00	U	1.80	5.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/22/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/22/21
Client Sample ID:	MW-106I	SDG No.:	M1770
Lab Sample ID:	M1770-02	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF123444.D	1	03/23/21 10:20	03/24/21 17:50	PB135304

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	5.00	U	2.20	5.00	ug/L
83-32-9	Acenaphthene	5.00	U	2.30	5.00	ug/L
51-28-5	2,4-Dinitrophenol	10.0	U	5.40	10.0	ug/L
100-02-7	4-Nitrophenol	10.0	U	3.70	10.0	ug/L
132-64-9	Dibenzofuran	5.00	U	2.20	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	5.00	U	2.10	5.00	ug/L
84-66-2	Diethylphthalate	5.00	U	2.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	5.00	U	2.40	5.00	ug/L
86-73-7	Fluorene	5.00	U	2.20	5.00	ug/L
100-01-6	4-Nitroaniline	5.00	U	2.50	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.0	U	2.80	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	5.00	U	2.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	5.00	U	2.10	5.00	ug/L
118-74-1	Hexachlorobenzene	5.00	U	2.10	5.00	ug/L
1912-24-9	Atrazine	5.00	U	2.80	5.00	ug/L
87-86-5	Pentachlorophenol	10.0	U	2.20	10.0	ug/L
85-01-8	Phenanthrene	5.00	U	2.20	5.00	ug/L
120-12-7	Anthracene	5.00	U	2.30	5.00	ug/L
86-74-8	Carbazole	5.00	U	2.40	5.00	ug/L
84-74-2	Di-n-butylphthalate	5.00	U	2.80	5.00	ug/L
206-44-0	Fluoranthene	5.00	U	2.60	5.00	ug/L
129-00-0	Pyrene	5.00	U	1.90	5.00	ug/L
85-68-7	Butylbenzylphthalate	5.00	U	2.60	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	5.00	U	2.70	5.00	ug/L
56-55-3	Benzo(a)anthracene	5.00	U	2.20	5.00	ug/L
218-01-9	Chrysene	5.00	U	2.30	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	5.00	U	2.80	5.00	ug/L
117-84-0	Di-n-octyl phthalate	10.0	U	3.70	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	5.00	U	2.00	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	5.00	U	2.00	5.00	ug/L
50-32-8	Benzo(a)pyrene	5.00	U	2.00	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	2.60	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.00	U	2.30	5.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/22/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/22/21
Client Sample ID:	MW-106I	SDG No.:	M1770
Lab Sample ID:	M1770-02	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF123444.D	1	03/23/21 10:20	03/24/21 17:50	PB135304

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	5.00	U	2.00	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	5.00	U	2.10	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	5.00	U	2.00	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	63.2		10 - 139	42%	SPK: 150
13127-88-3	Phenol-d6	36.6		10 - 134	24%	SPK: 150
4165-60-0	Nitrobenzene-d5	93.5		49 - 133	93%	SPK: 100
321-60-8	2-Fluorobiphenyl	80.0		52 - 132	80%	SPK: 100
118-79-6	2,4,6-Tribromophenol	125		45 - 141	83%	SPK: 150
1718-51-0	Terphenyl-d14	96.0		45 - 142	96%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	228000	6.91			
1146-65-2	Naphthalene-d8	835000	8.198			
15067-26-2	Acenaphthene-d10	456000	9.957			
1517-22-2	Phenanthrene-d10	717000	11.445			
1719-03-5	Chrysene-d12	396000	14.098			
1520-96-3	Perylene-d12	429000	15.604			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/22/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/22/21
Client Sample ID:	MW-106S	SDG No.:	M1770
Lab Sample ID:	M1770-03	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG048489.D	1	03/23/21 10:20	03/24/21 14:56	PB135304

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.0	U	3.60	10.0	ug/L
108-95-2	Phenol	2.10	J	1.50	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	5.00	U	1.40	5.00	ug/L
95-57-8	2-Chlorophenol	5.00	U	1.40	5.00	ug/L
95-48-7	2-Methylphenol	5.00	U	1.90	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	5.00	U	1.60	5.00	ug/L
98-86-2	Acetophenone	5.00	U	1.90	5.00	ug/L
65794-96-9	3+4-Methylphenols	10.0	U	3.90	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	5.00	U	1.70	5.00	ug/L
67-72-1	Hexachloroethane	5.00	U	1.60	5.00	ug/L
98-95-3	Nitrobenzene	5.00	U	1.60	5.00	ug/L
78-59-1	Isophorone	5.00	U	2.00	5.00	ug/L
88-75-5	2-Nitrophenol	5.00	U	1.90	5.00	ug/L
105-67-9	2,4-Dimethylphenol	5.00	U	2.30	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	5.00	U	2.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	5.00	U	1.90	5.00	ug/L
91-20-3	Naphthalene	5.00	U	1.90	5.00	ug/L
106-47-8	4-Chloroaniline	5.00	U	2.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	5.00	U	1.90	5.00	ug/L
105-60-2	Caprolactam	10.0	U	2.60	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	5.00	U	1.90	5.00	ug/L
91-57-6	2-Methylnaphthalene	5.00	U	2.20	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	10.0	U	4.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	5.00	U	1.70	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	5.00	U	1.80	5.00	ug/L
92-52-4	1,1-Biphenyl	5.00	U	2.20	5.00	ug/L
91-58-7	2-Chloronaphthalene	5.00	U	1.90	5.00	ug/L
88-74-4	2-Nitroaniline	5.00	U	1.70	5.00	ug/L
131-11-3	Dimethylphthalate	5.00	U	1.80	5.00	ug/L
208-96-8	Acenaphthylene	5.00	U	2.10	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	5.00	U	1.80	5.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/22/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/22/21
Client Sample ID:	MW-106S	SDG No.:	M1770
Lab Sample ID:	M1770-03	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG048489.D	1	03/23/21 10:20	03/24/21 14:56	PB135304

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	5.00	U	2.20	5.00	ug/L
83-32-9	Acenaphthene	5.00	U	2.30	5.00	ug/L
51-28-5	2,4-Dinitrophenol	10.0	U	5.40	10.0	ug/L
100-02-7	4-Nitrophenol	10.0	U	3.70	10.0	ug/L
132-64-9	Dibenzofuran	5.00	U	2.20	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	5.00	U	2.10	5.00	ug/L
84-66-2	Diethylphthalate	5.00	U	2.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	5.00	U	2.40	5.00	ug/L
86-73-7	Fluorene	5.00	U	2.20	5.00	ug/L
100-01-6	4-Nitroaniline	5.00	U	2.50	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.0	U	2.80	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	5.00	U	2.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	5.00	U	2.10	5.00	ug/L
118-74-1	Hexachlorobenzene	5.00	U	2.10	5.00	ug/L
1912-24-9	Atrazine	5.00	U	2.80	5.00	ug/L
87-86-5	Pentachlorophenol	10.0	U	2.20	10.0	ug/L
85-01-8	Phenanthrene	5.00	U	2.20	5.00	ug/L
120-12-7	Anthracene	5.00	U	2.30	5.00	ug/L
86-74-8	Carbazole	5.00	U	2.40	5.00	ug/L
84-74-2	Di-n-butylphthalate	5.00	U	2.80	5.00	ug/L
206-44-0	Fluoranthene	5.00	U	2.60	5.00	ug/L
129-00-0	Pyrene	5.00	U	1.90	5.00	ug/L
85-68-7	Butylbenzylphthalate	5.00	U	2.60	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	5.00	U	2.70	5.00	ug/L
56-55-3	Benzo(a)anthracene	5.00	U	2.20	5.00	ug/L
218-01-9	Chrysene	5.00	U	2.30	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	5.00	U	2.80	5.00	ug/L
117-84-0	Di-n-octyl phthalate	10.0	U	3.70	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	5.00	U	2.00	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	5.00	U	2.00	5.00	ug/L
50-32-8	Benzo(a)pyrene	5.00	U	2.00	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	2.60	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.00	U	2.30	5.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/22/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/22/21
Client Sample ID:	MW-106S	SDG No.:	M1770
Lab Sample ID:	M1770-03	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG048489.D	1	03/23/21 10:20	03/24/21 14:56	PB135304

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	5.00	U	2.00	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	5.00	U	2.10	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	5.00	U	2.00	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	72.8		10 - 139	49%	SPK: 150
13127-88-3	Phenol-d6	38.7		10 - 134	26%	SPK: 150
4165-60-0	Nitrobenzene-d5	90.3		49 - 133	90%	SPK: 100
321-60-8	2-Fluorobiphenyl	94.4		52 - 132	94%	SPK: 100
118-79-6	2,4,6-Tribromophenol	144		45 - 141	96%	SPK: 150
1718-51-0	Terphenyl-d14	91.3		45 - 142	91%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	49800	8.102			
1146-65-2	Naphthalene-d8	198000	10.922			
15067-26-2	Acenaphthene-d10	141000	14.741			
1517-22-2	Phenanthrene-d10	307000	17.491			
1719-03-5	Chrysene-d12	280000	21.78			
1520-96-3	Perylene-d12	295000	25.111			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/22/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/22/21
Client Sample ID:	MW-105D	SDG No.:	M1770
Lab Sample ID:	M1770-06	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF123440.D	1	03/23/21 10:20	03/24/21 15:41	PB135304

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.0	U	3.60	10.0	ug/L
108-95-2	Phenol	3.40	J	1.50	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	5.00	U	1.40	5.00	ug/L
95-57-8	2-Chlorophenol	5.00	U	1.40	5.00	ug/L
95-48-7	2-Methylphenol	5.00	U	1.90	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	5.00	U	1.60	5.00	ug/L
98-86-2	Acetophenone	5.00	U	1.90	5.00	ug/L
65794-96-9	3+4-Methylphenols	10.0	U	3.90	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	5.00	U	1.70	5.00	ug/L
67-72-1	Hexachloroethane	5.00	U	1.60	5.00	ug/L
98-95-3	Nitrobenzene	5.00	U	1.60	5.00	ug/L
78-59-1	Isophorone	5.00	U	2.00	5.00	ug/L
88-75-5	2-Nitrophenol	5.00	U	1.90	5.00	ug/L
105-67-9	2,4-Dimethylphenol	5.00	U	2.30	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	5.00	U	2.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	5.00	U	1.90	5.00	ug/L
91-20-3	Naphthalene	5.00	U	1.90	5.00	ug/L
106-47-8	4-Chloroaniline	5.00	U	2.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	5.00	U	1.90	5.00	ug/L
105-60-2	Caprolactam	11.0		2.60	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	5.00	U	1.90	5.00	ug/L
91-57-6	2-Methylnaphthalene	5.00	U	2.20	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	10.0	U	4.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	5.00	U	1.70	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	5.00	U	1.80	5.00	ug/L
92-52-4	1,1-Biphenyl	5.00	U	2.20	5.00	ug/L
91-58-7	2-Chloronaphthalene	5.00	U	1.90	5.00	ug/L
88-74-4	2-Nitroaniline	5.00	U	1.70	5.00	ug/L
131-11-3	Dimethylphthalate	5.00	U	1.80	5.00	ug/L
208-96-8	Acenaphthylene	5.00	U	2.10	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	5.00	U	1.80	5.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/22/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/22/21
Client Sample ID:	MW-105D	SDG No.:	M1770
Lab Sample ID:	M1770-06	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF123440.D	1	03/23/21 10:20	03/24/21 15:41	PB135304

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	5.00	U	2.20	5.00	ug/L
83-32-9	Acenaphthene	5.00	U	2.30	5.00	ug/L
51-28-5	2,4-Dinitrophenol	10.0	U	5.40	10.0	ug/L
100-02-7	4-Nitrophenol	10.0	U	3.70	10.0	ug/L
132-64-9	Dibenzofuran	5.00	U	2.20	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	5.00	U	2.10	5.00	ug/L
84-66-2	Diethylphthalate	5.00	U	2.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	5.00	U	2.40	5.00	ug/L
86-73-7	Fluorene	5.00	U	2.20	5.00	ug/L
100-01-6	4-Nitroaniline	5.00	U	2.50	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.0	U	2.80	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	5.00	U	2.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	5.00	U	2.10	5.00	ug/L
118-74-1	Hexachlorobenzene	5.00	U	2.10	5.00	ug/L
1912-24-9	Atrazine	5.00	U	2.80	5.00	ug/L
87-86-5	Pentachlorophenol	10.0	U	2.20	10.0	ug/L
85-01-8	Phenanthrene	5.00	U	2.20	5.00	ug/L
120-12-7	Anthracene	5.00	U	2.30	5.00	ug/L
86-74-8	Carbazole	5.00	U	2.40	5.00	ug/L
84-74-2	Di-n-butylphthalate	5.00	U	2.80	5.00	ug/L
206-44-0	Fluoranthene	5.00	U	2.60	5.00	ug/L
129-00-0	Pyrene	5.00	U	1.90	5.00	ug/L
85-68-7	Butylbenzylphthalate	5.00	U	2.60	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	5.00	U	2.70	5.00	ug/L
56-55-3	Benzo(a)anthracene	5.00	U	2.20	5.00	ug/L
218-01-9	Chrysene	5.00	U	2.30	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	5.00	U	2.80	5.00	ug/L
117-84-0	Di-n-octyl phthalate	10.0	U	3.70	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	5.00	U	2.00	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	5.00	U	2.00	5.00	ug/L
50-32-8	Benzo(a)pyrene	5.00	U	2.00	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	2.60	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.00	U	2.30	5.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/22/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/22/21
Client Sample ID:	MW-105D	SDG No.:	M1770
Lab Sample ID:	M1770-06	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF123440.D	1	03/23/21 10:20	03/24/21 15:41	PB135304

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	5.00	U	2.00	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	5.00	U	2.10	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	5.00	U	2.00	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	69.6		10 - 139	46%	SPK: 150
13127-88-3	Phenol-d6	41.5		10 - 134	28%	SPK: 150
4165-60-0	Nitrobenzene-d5	95.0		49 - 133	95%	SPK: 100
321-60-8	2-Fluorobiphenyl	79.2		52 - 132	79%	SPK: 100
118-79-6	2,4,6-Tribromophenol	123		45 - 141	82%	SPK: 150
1718-51-0	Terphenyl-d14	91.0		45 - 142	91%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	234000	6.916			
1146-65-2	Naphthalene-d8	884000	8.198			
15067-26-2	Acenaphthene-d10	484000	9.957			
1517-22-2	Phenanthrene-d10	747000	11.451			
1719-03-5	Chrysene-d12	411000	14.098			
1520-96-3	Perylene-d12	450000	15.604			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/22/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/22/21
Client Sample ID:	MW-105I	SDG No.:	M1770
Lab Sample ID:	M1770-07	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF123439.D	1	03/23/21 10:20	03/24/21 15:08	PB135304

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.0	U	3.60	10.0	ug/L
108-95-2	Phenol	3.30	J	1.50	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	5.00	U	1.40	5.00	ug/L
95-57-8	2-Chlorophenol	5.00	U	1.40	5.00	ug/L
95-48-7	2-Methylphenol	5.00	U	1.90	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	5.00	U	1.60	5.00	ug/L
98-86-2	Acetophenone	5.00	U	1.90	5.00	ug/L
65794-96-9	3+4-Methylphenols	10.0	U	3.90	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	5.00	U	1.70	5.00	ug/L
67-72-1	Hexachloroethane	5.00	U	1.60	5.00	ug/L
98-95-3	Nitrobenzene	5.00	U	1.60	5.00	ug/L
78-59-1	Isophorone	5.00	U	2.00	5.00	ug/L
88-75-5	2-Nitrophenol	5.00	U	1.90	5.00	ug/L
105-67-9	2,4-Dimethylphenol	5.00	U	2.30	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	5.00	U	2.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	5.00	U	1.90	5.00	ug/L
91-20-3	Naphthalene	5.00	U	1.90	5.00	ug/L
106-47-8	4-Chloroaniline	5.00	U	2.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	5.00	U	1.90	5.00	ug/L
105-60-2	Caprolactam	10.0	U	2.60	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	5.00	U	1.90	5.00	ug/L
91-57-6	2-Methylnaphthalene	5.00	U	2.20	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	10.0	U	4.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	5.00	U	1.70	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	5.00	U	1.80	5.00	ug/L
92-52-4	1,1-Biphenyl	5.00	U	2.20	5.00	ug/L
91-58-7	2-Chloronaphthalene	5.00	U	1.90	5.00	ug/L
88-74-4	2-Nitroaniline	5.00	U	1.70	5.00	ug/L
131-11-3	Dimethylphthalate	5.00	U	1.80	5.00	ug/L
208-96-8	Acenaphthylene	5.00	U	2.10	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	5.00	U	1.80	5.00	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/22/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/22/21
Client Sample ID:	MW-105I	SDG No.:	M1770
Lab Sample ID:	M1770-07	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF123439.D	1	03/23/21 10:20	03/24/21 15:08	PB135304

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	5.00	U	2.20	5.00	ug/L
83-32-9	Acenaphthene	5.00	U	2.30	5.00	ug/L
51-28-5	2,4-Dinitrophenol	10.0	U	5.40	10.0	ug/L
100-02-7	4-Nitrophenol	10.0	U	3.70	10.0	ug/L
132-64-9	Dibenzofuran	5.00	U	2.20	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	5.00	U	2.10	5.00	ug/L
84-66-2	Diethylphthalate	5.00	U	2.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	5.00	U	2.40	5.00	ug/L
86-73-7	Fluorene	5.00	U	2.20	5.00	ug/L
100-01-6	4-Nitroaniline	5.00	U	2.50	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.0	U	2.80	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	5.00	U	2.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	5.00	U	2.10	5.00	ug/L
118-74-1	Hexachlorobenzene	5.00	U	2.10	5.00	ug/L
1912-24-9	Atrazine	5.00	U	2.80	5.00	ug/L
87-86-5	Pentachlorophenol	10.0	U	2.20	10.0	ug/L
85-01-8	Phenanthrene	5.00	U	2.20	5.00	ug/L
120-12-7	Anthracene	5.00	U	2.30	5.00	ug/L
86-74-8	Carbazole	5.00	U	2.40	5.00	ug/L
84-74-2	Di-n-butylphthalate	5.00	U	2.80	5.00	ug/L
206-44-0	Fluoranthene	5.00	U	2.60	5.00	ug/L
129-00-0	Pyrene	5.00	U	1.90	5.00	ug/L
85-68-7	Butylbenzylphthalate	5.00	U	2.60	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	5.00	U	2.70	5.00	ug/L
56-55-3	Benzo(a)anthracene	5.00	U	2.20	5.00	ug/L
218-01-9	Chrysene	5.00	U	2.30	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	5.00	U	2.80	5.00	ug/L
117-84-0	Di-n-octyl phthalate	10.0	U	3.70	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	5.00	U	2.00	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	5.00	U	2.00	5.00	ug/L
50-32-8	Benzo(a)pyrene	5.00	U	2.00	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	2.60	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.00	U	2.30	5.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/22/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/22/21
Client Sample ID:	MW-105I	SDG No.:	M1770
Lab Sample ID:	M1770-07	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF123439.D	1	03/23/21 10:20	03/24/21 15:08	PB135304

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	5.00	U	2.00	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	5.00	U	2.10	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	5.00	U	2.00	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	68.2		10 - 139	45%	SPK: 150
13127-88-3	Phenol-d6	40.0		10 - 134	27%	SPK: 150
4165-60-0	Nitrobenzene-d5	98.2		49 - 133	98%	SPK: 100
321-60-8	2-Fluorobiphenyl	82.3		52 - 132	82%	SPK: 100
118-79-6	2,4,6-Tribromophenol	130		45 - 141	86%	SPK: 150
1718-51-0	Terphenyl-d14	92.5		45 - 142	93%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	234000	6.91			
1146-65-2	Naphthalene-d8	865000	8.198			
15067-26-2	Acenaphthene-d10	468000	9.957			
1517-22-2	Phenanthrene-d10	738000	11.445			
1719-03-5	Chrysene-d12	398000	14.098			
1520-96-3	Perylene-d12	440000	15.604			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/22/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/22/21
Client Sample ID:	MW-105S	SDG No.:	M1770
Lab Sample ID:	M1770-08	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF123443.D	1	03/23/21 10:20	03/24/21 17:18	PB135304

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.0	U	3.60	10.0	ug/L
108-95-2	Phenol	3.00	J	1.50	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	5.00	U	1.40	5.00	ug/L
95-57-8	2-Chlorophenol	5.00	U	1.40	5.00	ug/L
95-48-7	2-Methylphenol	5.00	U	1.90	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	5.00	U	1.60	5.00	ug/L
98-86-2	Acetophenone	5.00	U	1.90	5.00	ug/L
65794-96-9	3+4-Methylphenols	10.0	U	3.90	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	5.00	U	1.70	5.00	ug/L
67-72-1	Hexachloroethane	5.00	U	1.60	5.00	ug/L
98-95-3	Nitrobenzene	5.00	U	1.60	5.00	ug/L
78-59-1	Isophorone	5.00	U	2.00	5.00	ug/L
88-75-5	2-Nitrophenol	5.00	U	1.90	5.00	ug/L
105-67-9	2,4-Dimethylphenol	5.00	U	2.30	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	5.00	U	2.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	5.00	U	1.90	5.00	ug/L
91-20-3	Naphthalene	5.00	U	1.90	5.00	ug/L
106-47-8	4-Chloroaniline	5.00	U	2.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	5.00	U	1.90	5.00	ug/L
105-60-2	Caprolactam	10.0	U	2.60	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	5.00	U	1.90	5.00	ug/L
91-57-6	2-Methylnaphthalene	5.00	U	2.20	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	10.0	U	4.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	5.00	U	1.70	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	5.00	U	1.80	5.00	ug/L
92-52-4	1,1-Biphenyl	5.00	U	2.20	5.00	ug/L
91-58-7	2-Chloronaphthalene	5.00	U	1.90	5.00	ug/L
88-74-4	2-Nitroaniline	5.00	U	1.70	5.00	ug/L
131-11-3	Dimethylphthalate	5.00	U	1.80	5.00	ug/L
208-96-8	Acenaphthylene	5.00	U	2.10	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	5.00	U	1.80	5.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/22/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/22/21
Client Sample ID:	MW-105S	SDG No.:	M1770
Lab Sample ID:	M1770-08	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF123443.D	1	03/23/21 10:20	03/24/21 17:18	PB135304

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	5.00	U	2.20	5.00	ug/L
83-32-9	Acenaphthene	5.00	U	2.30	5.00	ug/L
51-28-5	2,4-Dinitrophenol	10.0	U	5.40	10.0	ug/L
100-02-7	4-Nitrophenol	10.0	U	3.70	10.0	ug/L
132-64-9	Dibenzofuran	5.00	U	2.20	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	5.00	U	2.10	5.00	ug/L
84-66-2	Diethylphthalate	5.00	U	2.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	5.00	U	2.40	5.00	ug/L
86-73-7	Fluorene	5.00	U	2.20	5.00	ug/L
100-01-6	4-Nitroaniline	5.00	U	2.50	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.0	U	2.80	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	5.00	U	2.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	5.00	U	2.10	5.00	ug/L
118-74-1	Hexachlorobenzene	5.00	U	2.10	5.00	ug/L
1912-24-9	Atrazine	5.00	U	2.80	5.00	ug/L
87-86-5	Pentachlorophenol	10.0	U	2.20	10.0	ug/L
85-01-8	Phenanthrene	5.00	U	2.20	5.00	ug/L
120-12-7	Anthracene	5.00	U	2.30	5.00	ug/L
86-74-8	Carbazole	5.00	U	2.40	5.00	ug/L
84-74-2	Di-n-butylphthalate	5.00	U	2.80	5.00	ug/L
206-44-0	Fluoranthene	5.00	U	2.60	5.00	ug/L
129-00-0	Pyrene	5.00	U	1.90	5.00	ug/L
85-68-7	Butylbenzylphthalate	5.00	U	2.60	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	5.00	U	2.70	5.00	ug/L
56-55-3	Benzo(a)anthracene	5.00	U	2.20	5.00	ug/L
218-01-9	Chrysene	5.00	U	2.30	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	5.00	U	2.80	5.00	ug/L
117-84-0	Di-n-octyl phthalate	10.0	U	3.70	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	5.00	U	2.00	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	5.00	U	2.00	5.00	ug/L
50-32-8	Benzo(a)pyrene	5.00	U	2.00	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	2.60	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.00	U	2.30	5.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/22/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/22/21
Client Sample ID:	MW-105S	SDG No.:	M1770
Lab Sample ID:	M1770-08	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF123443.D	1	03/23/21 10:20	03/24/21 17:18	PB135304

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	5.00	U	2.00	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	5.00	U	2.10	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	5.00	U	2.00	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	66.1		10 - 139	44%	SPK: 150
13127-88-3	Phenol-d6	38.5		10 - 134	26%	SPK: 150
4165-60-0	Nitrobenzene-d5	96.4		49 - 133	96%	SPK: 100
321-60-8	2-Fluorobiphenyl	82.6		52 - 132	83%	SPK: 100
118-79-6	2,4,6-Tribromophenol	128		45 - 141	85%	SPK: 150
1718-51-0	Terphenyl-d14	91.1		45 - 142	91%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	232000	6.91			
1146-65-2	Naphthalene-d8	856000	8.198			
15067-26-2	Acenaphthene-d10	461000	9.957			
1517-22-2	Phenanthrene-d10	691000	11.451			
1719-03-5	Chrysene-d12	387000	14.098			
1520-96-3	Perylene-d12	444000	15.604			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-106D	SDG No.:	M1770
Lab Sample ID:	M1770-10	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG048510.D	1	03/25/21 08:35	03/25/21 20:27	PB135347

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.0	U	3.60	10.0	ug/L
108-95-2	Phenol	5.00	U	1.50	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	5.00	U	1.40	5.00	ug/L
95-57-8	2-Chlorophenol	5.00	U	1.40	5.00	ug/L
95-48-7	2-Methylphenol	5.00	U	1.90	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	5.00	U	1.60	5.00	ug/L
98-86-2	Acetophenone	5.00	U	1.90	5.00	ug/L
65794-96-9	3+4-Methylphenols	10.0	U	3.90	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	5.00	U	1.70	5.00	ug/L
67-72-1	Hexachloroethane	5.00	U	1.60	5.00	ug/L
98-95-3	Nitrobenzene	5.00	U	1.60	5.00	ug/L
78-59-1	Isophorone	5.00	U	2.00	5.00	ug/L
88-75-5	2-Nitrophenol	5.00	U	1.90	5.00	ug/L
105-67-9	2,4-Dimethylphenol	5.00	U	2.30	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	5.00	U	2.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	5.00	U	1.90	5.00	ug/L
91-20-3	Naphthalene	5.00	U	1.90	5.00	ug/L
106-47-8	4-Chloroaniline	5.00	U	2.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	5.00	U	1.90	5.00	ug/L
105-60-2	Caprolactam	10.0	U	2.60	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	5.00	U	1.90	5.00	ug/L
91-57-6	2-Methylnaphthalene	5.00	U	2.20	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	10.0	U	4.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	5.00	U	1.70	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	5.00	U	1.80	5.00	ug/L
92-52-4	1,1-Biphenyl	5.00	U	2.20	5.00	ug/L
91-58-7	2-Chloronaphthalene	5.00	U	1.90	5.00	ug/L
88-74-4	2-Nitroaniline	5.00	U	1.70	5.00	ug/L
131-11-3	Dimethylphthalate	4.40	J	1.80	5.00	ug/L
208-96-8	Acenaphthylene	5.00	U	2.10	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	5.00	U	1.80	5.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-106D	SDG No.:	M1770
Lab Sample ID:	M1770-10	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG048510.D	1	03/25/21 08:35	03/25/21 20:27	PB135347

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	5.00	U	2.20	5.00	ug/L
83-32-9	Acenaphthene	5.00	U	2.30	5.00	ug/L
51-28-5	2,4-Dinitrophenol	10.0	U	5.40	10.0	ug/L
100-02-7	4-Nitrophenol	10.0	U	3.70	10.0	ug/L
132-64-9	Dibenzofuran	5.00	U	2.20	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	5.00	U	2.10	5.00	ug/L
84-66-2	Diethylphthalate	5.00	U	2.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	5.00	U	2.40	5.00	ug/L
86-73-7	Fluorene	5.00	U	2.20	5.00	ug/L
100-01-6	4-Nitroaniline	5.00	U	2.50	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.0	U	2.80	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	5.00	U	2.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	5.00	U	2.10	5.00	ug/L
118-74-1	Hexachlorobenzene	5.00	U	2.10	5.00	ug/L
1912-24-9	Atrazine	5.00	U	2.80	5.00	ug/L
87-86-5	Pentachlorophenol	10.0	U	2.20	10.0	ug/L
85-01-8	Phenanthrene	5.00	U	2.20	5.00	ug/L
120-12-7	Anthracene	5.00	U	2.30	5.00	ug/L
86-74-8	Carbazole	5.00	U	2.40	5.00	ug/L
84-74-2	Di-n-butylphthalate	5.00	U	2.80	5.00	ug/L
206-44-0	Fluoranthene	5.00	U	2.60	5.00	ug/L
129-00-0	Pyrene	5.00	U	1.90	5.00	ug/L
85-68-7	Butylbenzylphthalate	5.00	U	2.60	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	5.00	U	2.70	5.00	ug/L
56-55-3	Benzo(a)anthracene	5.00	U	2.20	5.00	ug/L
218-01-9	Chrysene	5.00	U	2.30	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	5.00	U	2.80	5.00	ug/L
117-84-0	Di-n-octyl phthalate	10.0	U	3.70	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	5.00	U	2.00	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	5.00	U	2.00	5.00	ug/L
50-32-8	Benzo(a)pyrene	5.00	U	2.00	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	2.60	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.00	U	2.30	5.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-106D	SDG No.:	M1770
Lab Sample ID:	M1770-10	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG048510.D	1	03/25/21 08:35	03/25/21 20:27	PB135347

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	5.00	U	2.00	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	5.00	U	2.10	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	5.00	U	2.00	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	56.0		10 - 139	37%	SPK: 150
13127-88-3	Phenol-d6	31.5		10 - 134	21%	SPK: 150
4165-60-0	Nitrobenzene-d5	83.3		49 - 133	83%	SPK: 100
321-60-8	2-Fluorobiphenyl	89.5		52 - 132	89%	SPK: 100
118-79-6	2,4,6-Tribromophenol	128		45 - 141	86%	SPK: 150
1718-51-0	Terphenyl-d14	78.4		45 - 142	78%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	53700	8.103			
1146-65-2	Naphthalene-d8	213000	10.923			
15067-26-2	Acenaphthene-d10	145000	14.742			
1517-22-2	Phenanthrene-d10	315000	17.492			
1719-03-5	Chrysene-d12	309000	21.781			
1520-96-3	Perylene-d12	330000	25.112			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-104D	SDG No.:	M1770
Lab Sample ID:	M1770-11	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	950 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF123486.D	1	03/25/21 08:35	03/26/21 15:01	PB135347

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.5	U	3.80	10.5	ug/L
108-95-2	Phenol	5.30	U	1.60	5.30	ug/L
111-44-4	bis(2-Chloroethyl)ether	5.30	U	1.50	5.30	ug/L
95-57-8	2-Chlorophenol	5.30	U	1.40	5.30	ug/L
95-48-7	2-Methylphenol	5.30	U	2.00	5.30	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	5.30	U	1.70	5.30	ug/L
98-86-2	Acetophenone	5.30	U	2.00	5.30	ug/L
65794-96-9	3+4-Methylphenols	10.5	U	4.10	10.5	ug/L
621-64-7	n-Nitroso-di-n-propylamine	5.30	U	1.80	5.30	ug/L
67-72-1	Hexachloroethane	5.30	U	1.70	5.30	ug/L
98-95-3	Nitrobenzene	5.30	U	1.70	5.30	ug/L
78-59-1	Isophorone	5.30	U	2.20	5.30	ug/L
88-75-5	2-Nitrophenol	5.30	U	2.00	5.30	ug/L
105-67-9	2,4-Dimethylphenol	5.30	U	2.40	5.30	ug/L
111-91-1	bis(2-Chloroethoxy)methane	5.30	U	2.10	5.30	ug/L
120-83-2	2,4-Dichlorophenol	5.30	U	2.00	5.30	ug/L
91-20-3	Naphthalene	5.30	U	2.00	5.30	ug/L
106-47-8	4-Chloroaniline	5.30	U	2.40	5.30	ug/L
87-68-3	Hexachlorobutadiene	5.30	U	2.00	5.30	ug/L
105-60-2	Caprolactam	10.5	U	2.70	10.5	ug/L
59-50-7	4-Chloro-3-methylphenol	5.30	U	2.00	5.30	ug/L
91-57-6	2-Methylnaphthalene	5.30	U	2.30	5.30	ug/L
77-47-4	Hexachlorocyclopentadiene	10.5	U	4.20	10.5	ug/L
88-06-2	2,4,6-Trichlorophenol	5.30	U	1.80	5.30	ug/L
95-95-4	2,4,5-Trichlorophenol	5.30	U	1.90	5.30	ug/L
92-52-4	1,1-Biphenyl	5.30	U	2.30	5.30	ug/L
91-58-7	2-Chloronaphthalene	5.30	U	2.00	5.30	ug/L
88-74-4	2-Nitroaniline	5.30	U	1.80	5.30	ug/L
131-11-3	Dimethylphthalate	5.30	U	1.90	5.30	ug/L
208-96-8	Acenaphthylene	5.30	U	2.20	5.30	ug/L
606-20-2	2,6-Dinitrotoluene	5.30	U	1.90	5.30	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-104D	SDG No.:	M1770
Lab Sample ID:	M1770-11	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	950 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF123486.D	1	03/25/21 08:35	03/26/21 15:01	PB135347

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	5.30	U	2.30	5.30	ug/L
83-32-9	Acenaphthene	5.30	U	2.40	5.30	ug/L
51-28-5	2,4-Dinitrophenol	10.5	U	5.70	10.5	ug/L
100-02-7	4-Nitrophenol	10.5	U	3.90	10.5	ug/L
132-64-9	Dibenzofuran	5.30	U	2.40	5.30	ug/L
121-14-2	2,4-Dinitrotoluene	5.30	U	2.20	5.30	ug/L
84-66-2	Diethylphthalate	5.30	U	2.10	5.30	ug/L
7005-72-3	4-Chlorophenyl-phenylether	5.30	U	2.50	5.30	ug/L
86-73-7	Fluorene	5.30	U	2.30	5.30	ug/L
100-01-6	4-Nitroaniline	5.30	U	2.70	5.30	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.5	U	3.00	10.5	ug/L
86-30-6	n-Nitrosodiphenylamine	5.30	U	2.10	5.30	ug/L
101-55-3	4-Bromophenyl-phenylether	5.30	U	2.20	5.30	ug/L
118-74-1	Hexachlorobenzene	5.30	U	2.20	5.30	ug/L
1912-24-9	Atrazine	5.30	U	2.90	5.30	ug/L
87-86-5	Pentachlorophenol	10.5	U	2.30	10.5	ug/L
85-01-8	Phenanthrene	5.30	U	2.30	5.30	ug/L
120-12-7	Anthracene	5.30	U	2.40	5.30	ug/L
86-74-8	Carbazole	5.30	U	2.50	5.30	ug/L
84-74-2	Di-n-butylphthalate	5.30	U	3.00	5.30	ug/L
206-44-0	Fluoranthene	5.30	U	2.80	5.30	ug/L
129-00-0	Pyrene	5.30	U	2.00	5.30	ug/L
85-68-7	Butylbenzylphthalate	5.30	U	2.70	5.30	ug/L
91-94-1	3,3-Dichlorobenzidine	5.30	U	2.90	5.30	ug/L
56-55-3	Benzo(a)anthracene	5.30	U	2.30	5.30	ug/L
218-01-9	Chrysene	5.30	U	2.40	5.30	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	5.30	U	2.90	5.30	ug/L
117-84-0	Di-n-octyl phthalate	10.5	U	3.90	10.5	ug/L
205-99-2	Benzo(b)fluoranthene	5.30	U	2.10	5.30	ug/L
207-08-9	Benzo(k)fluoranthene	5.30	U	2.10	5.30	ug/L
50-32-8	Benzo(a)pyrene	5.30	U	2.10	5.30	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.30	U	2.70	5.30	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.30	U	2.40	5.30	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-104D	SDG No.:	M1770
Lab Sample ID:	M1770-11	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	950 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF123486.D	1	03/25/21 08:35	03/26/21 15:01	PB135347

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	5.30	U	2.10	5.30	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	5.30	U	2.20	5.30	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	5.30	U	2.10	5.30	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	64.0		10 - 139	43%	SPK: 150
13127-88-3	Phenol-d6	44.9		10 - 134	30%	SPK: 150
4165-60-0	Nitrobenzene-d5	94.7		49 - 133	95%	SPK: 100
321-60-8	2-Fluorobiphenyl	78.8		52 - 132	79%	SPK: 100
118-79-6	2,4,6-Tribromophenol	135		45 - 141	90%	SPK: 150
1718-51-0	Terphenyl-d14	83.5		45 - 142	84%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	240000	6.898			
1146-65-2	Naphthalene-d8	888000	8.186			
15067-26-2	Acenaphthene-d10	506000	9.945			
1517-22-2	Phenanthrene-d10	861000	11.433			
1719-03-5	Chrysene-d12	591000	14.08			
1520-96-3	Perylene-d12	462000	15.58			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-104I	SDG No.:	M1770
Lab Sample ID:	M1770-12	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF123487.D	1	03/25/21 08:35	03/26/21 15:35	PB135347

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.0	U	3.60	10.0	ug/L
108-95-2	Phenol	5.00	U	1.50	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	5.00	U	1.40	5.00	ug/L
95-57-8	2-Chlorophenol	5.00	U	1.40	5.00	ug/L
95-48-7	2-Methylphenol	5.00	U	1.90	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	5.00	U	1.60	5.00	ug/L
98-86-2	Acetophenone	5.00	U	1.90	5.00	ug/L
65794-96-9	3+4-Methylphenols	10.0	U	3.90	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	5.00	U	1.70	5.00	ug/L
67-72-1	Hexachloroethane	5.00	U	1.60	5.00	ug/L
98-95-3	Nitrobenzene	5.00	U	1.60	5.00	ug/L
78-59-1	Isophorone	5.00	U	2.00	5.00	ug/L
88-75-5	2-Nitrophenol	5.00	U	1.90	5.00	ug/L
105-67-9	2,4-Dimethylphenol	5.00	U	2.30	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	5.00	U	2.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	5.00	U	1.90	5.00	ug/L
91-20-3	Naphthalene	5.00	U	1.90	5.00	ug/L
106-47-8	4-Chloroaniline	5.00	U	2.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	5.00	U	1.90	5.00	ug/L
105-60-2	Caprolactam	10.0	U	2.60	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	5.00	U	1.90	5.00	ug/L
91-57-6	2-Methylnaphthalene	5.00	U	2.20	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	10.0	U	4.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	5.00	U	1.70	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	5.00	U	1.80	5.00	ug/L
92-52-4	1,1-Biphenyl	5.00	U	2.20	5.00	ug/L
91-58-7	2-Chloronaphthalene	5.00	U	1.90	5.00	ug/L
88-74-4	2-Nitroaniline	5.00	U	1.70	5.00	ug/L
131-11-3	Dimethylphthalate	5.00	U	1.80	5.00	ug/L
208-96-8	Acenaphthylene	5.00	U	2.10	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	5.00	U	1.80	5.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-104I	SDG No.:	M1770
Lab Sample ID:	M1770-12	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF123487.D	1	03/25/21 08:35	03/26/21 15:35	PB135347

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	5.00	U	2.20	5.00	ug/L
83-32-9	Acenaphthene	5.00	U	2.30	5.00	ug/L
51-28-5	2,4-Dinitrophenol	10.0	U	5.40	10.0	ug/L
100-02-7	4-Nitrophenol	10.0	U	3.70	10.0	ug/L
132-64-9	Dibenzofuran	5.00	U	2.20	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	5.00	U	2.10	5.00	ug/L
84-66-2	Diethylphthalate	5.00	U	2.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	5.00	U	2.40	5.00	ug/L
86-73-7	Fluorene	5.00	U	2.20	5.00	ug/L
100-01-6	4-Nitroaniline	5.00	U	2.50	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.0	U	2.80	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	5.00	U	2.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	5.00	U	2.10	5.00	ug/L
118-74-1	Hexachlorobenzene	5.00	U	2.10	5.00	ug/L
1912-24-9	Atrazine	5.00	U	2.80	5.00	ug/L
87-86-5	Pentachlorophenol	10.0	U	2.20	10.0	ug/L
85-01-8	Phenanthrene	5.00	U	2.20	5.00	ug/L
120-12-7	Anthracene	5.00	U	2.30	5.00	ug/L
86-74-8	Carbazole	5.00	U	2.40	5.00	ug/L
84-74-2	Di-n-butylphthalate	5.00	U	2.80	5.00	ug/L
206-44-0	Fluoranthene	5.00	U	2.60	5.00	ug/L
129-00-0	Pyrene	5.00	U	1.90	5.00	ug/L
85-68-7	Butylbenzylphthalate	5.00	U	2.60	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	5.00	U	2.70	5.00	ug/L
56-55-3	Benzo(a)anthracene	5.00	U	2.20	5.00	ug/L
218-01-9	Chrysene	5.00	U	2.30	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	5.00	U	2.80	5.00	ug/L
117-84-0	Di-n-octyl phthalate	10.0	U	3.70	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	5.00	U	2.00	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	5.00	U	2.00	5.00	ug/L
50-32-8	Benzo(a)pyrene	5.00	U	2.00	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	2.60	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.00	U	2.30	5.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-104I	SDG No.:	M1770
Lab Sample ID:	M1770-12	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF123487.D	1	03/25/21 08:35	03/26/21 15:35	PB135347

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	5.00	U	2.00	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	5.00	U	2.10	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	5.00	U	2.00	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	57.4		10 - 139	38%	SPK: 150
13127-88-3	Phenol-d6	32.9		10 - 134	22%	SPK: 150
4165-60-0	Nitrobenzene-d5	94.4		49 - 133	94%	SPK: 100
321-60-8	2-Fluorobiphenyl	79.3		52 - 132	79%	SPK: 100
118-79-6	2,4,6-Tribromophenol	132		45 - 141	88%	SPK: 150
1718-51-0	Terphenyl-d14	88.7		45 - 142	89%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	227000	6.898			
1146-65-2	Naphthalene-d8	836000	8.18			
15067-26-2	Acenaphthene-d10	466000	9.939			
1517-22-2	Phenanthrene-d10	801000	11.433			
1719-03-5	Chrysene-d12	529000	14.08			
1520-96-3	Perylene-d12	425000	15.58			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-103D	SDG No.:	M1770
Lab Sample ID:	M1770-13	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF123488.D	1	03/25/21 08:35	03/26/21 16:08	PB135347

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.0	U	3.60	10.0	ug/L
108-95-2	Phenol	2.10	J	1.50	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	5.00	U	1.40	5.00	ug/L
95-57-8	2-Chlorophenol	5.00	U	1.40	5.00	ug/L
95-48-7	2-Methylphenol	5.00	U	1.90	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	5.00	U	1.60	5.00	ug/L
98-86-2	Acetophenone	5.00	U	1.90	5.00	ug/L
65794-96-9	3+4-Methylphenols	10.0	U	3.90	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	5.00	U	1.70	5.00	ug/L
67-72-1	Hexachloroethane	5.00	U	1.60	5.00	ug/L
98-95-3	Nitrobenzene	5.00	U	1.60	5.00	ug/L
78-59-1	Isophorone	5.00	U	2.00	5.00	ug/L
88-75-5	2-Nitrophenol	5.00	U	1.90	5.00	ug/L
105-67-9	2,4-Dimethylphenol	5.00	U	2.30	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	5.00	U	2.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	5.00	U	1.90	5.00	ug/L
91-20-3	Naphthalene	5.00	U	1.90	5.00	ug/L
106-47-8	4-Chloroaniline	5.00	U	2.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	5.00	U	1.90	5.00	ug/L
105-60-2	Caprolactam	11.2		2.60	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	5.00	U	1.90	5.00	ug/L
91-57-6	2-Methylnaphthalene	5.00	U	2.20	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	10.0	U	4.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	5.00	U	1.70	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	5.00	U	1.80	5.00	ug/L
92-52-4	1,1-Biphenyl	5.00	U	2.20	5.00	ug/L
91-58-7	2-Chloronaphthalene	5.00	U	1.90	5.00	ug/L
88-74-4	2-Nitroaniline	5.00	U	1.70	5.00	ug/L
131-11-3	Dimethylphthalate	5.00	U	1.80	5.00	ug/L
208-96-8	Acenaphthylene	5.00	U	2.10	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	5.00	U	1.80	5.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-103D	SDG No.:	M1770
Lab Sample ID:	M1770-13	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF123488.D	1	03/25/21 08:35	03/26/21 16:08	PB135347

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	5.00	U	2.20	5.00	ug/L
83-32-9	Acenaphthene	5.00	U	2.30	5.00	ug/L
51-28-5	2,4-Dinitrophenol	10.0	U	5.40	10.0	ug/L
100-02-7	4-Nitrophenol	10.0	U	3.70	10.0	ug/L
132-64-9	Dibenzofuran	5.00	U	2.20	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	5.00	U	2.10	5.00	ug/L
84-66-2	Diethylphthalate	5.00	U	2.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	5.00	U	2.40	5.00	ug/L
86-73-7	Fluorene	5.00	U	2.20	5.00	ug/L
100-01-6	4-Nitroaniline	5.00	U	2.50	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.0	U	2.80	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	5.00	U	2.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	5.00	U	2.10	5.00	ug/L
118-74-1	Hexachlorobenzene	5.00	U	2.10	5.00	ug/L
1912-24-9	Atrazine	5.00	U	2.80	5.00	ug/L
87-86-5	Pentachlorophenol	10.0	U	2.20	10.0	ug/L
85-01-8	Phenanthrene	5.00	U	2.20	5.00	ug/L
120-12-7	Anthracene	5.00	U	2.30	5.00	ug/L
86-74-8	Carbazole	5.00	U	2.40	5.00	ug/L
84-74-2	Di-n-butylphthalate	5.00	U	2.80	5.00	ug/L
206-44-0	Fluoranthene	5.00	U	2.60	5.00	ug/L
129-00-0	Pyrene	5.00	U	1.90	5.00	ug/L
85-68-7	Butylbenzylphthalate	5.00	U	2.60	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	5.00	U	2.70	5.00	ug/L
56-55-3	Benzo(a)anthracene	5.00	U	2.20	5.00	ug/L
218-01-9	Chrysene	5.00	U	2.30	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	5.00	U	2.80	5.00	ug/L
117-84-0	Di-n-octyl phthalate	10.0	U	3.70	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	5.00	U	2.00	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	5.00	U	2.00	5.00	ug/L
50-32-8	Benzo(a)pyrene	5.00	U	2.00	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	2.60	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.00	U	2.30	5.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-103D	SDG No.:	M1770
Lab Sample ID:	M1770-13	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF123488.D	1	03/25/21 08:35	03/26/21 16:08	PB135347

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	5.00	U	2.00	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	5.00	U	2.10	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	5.00	U	2.00	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	64.5		10 - 139	43%	SPK: 150
13127-88-3	Phenol-d6	52.1		10 - 134	35%	SPK: 150
4165-60-0	Nitrobenzene-d5	92.7		49 - 133	93%	SPK: 100
321-60-8	2-Fluorobiphenyl	79.6		52 - 132	80%	SPK: 100
118-79-6	2,4,6-Tribromophenol	134		45 - 141	89%	SPK: 150
1718-51-0	Terphenyl-d14	88.5		45 - 142	89%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	243000	6.898			
1146-65-2	Naphthalene-d8	921000	8.186			
15067-26-2	Acenaphthene-d10	505000	9.945			
1517-22-2	Phenanthrene-d10	870000	11.433			
1719-03-5	Chrysene-d12	570000	14.08			
1520-96-3	Perylene-d12	464000	15.58			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-103I	SDG No.:	M1770
Lab Sample ID:	M1770-14	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF123489.D	1	03/25/21 08:35	03/26/21 16:42	PB135347

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.0	U	3.60	10.0	ug/L
108-95-2	Phenol	2.40	J	1.50	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	5.00	U	1.40	5.00	ug/L
95-57-8	2-Chlorophenol	5.00	U	1.40	5.00	ug/L
95-48-7	2-Methylphenol	5.00	U	1.90	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	5.00	U	1.60	5.00	ug/L
98-86-2	Acetophenone	5.00	U	1.90	5.00	ug/L
65794-96-9	3+4-Methylphenols	10.0	U	3.90	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	5.00	U	1.70	5.00	ug/L
67-72-1	Hexachloroethane	5.00	U	1.60	5.00	ug/L
98-95-3	Nitrobenzene	5.00	U	1.60	5.00	ug/L
78-59-1	Isophorone	5.00	U	2.00	5.00	ug/L
88-75-5	2-Nitrophenol	5.00	U	1.90	5.00	ug/L
105-67-9	2,4-Dimethylphenol	5.00	U	2.30	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	5.00	U	2.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	5.00	U	1.90	5.00	ug/L
91-20-3	Naphthalene	5.00	U	1.90	5.00	ug/L
106-47-8	4-Chloroaniline	5.00	U	2.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	5.00	U	1.90	5.00	ug/L
105-60-2	Caprolactam	10.7		2.60	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	5.00	U	1.90	5.00	ug/L
91-57-6	2-Methylnaphthalene	5.00	U	2.20	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	10.0	U	4.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	5.00	U	1.70	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	5.00	U	1.80	5.00	ug/L
92-52-4	1,1-Biphenyl	5.00	U	2.20	5.00	ug/L
91-58-7	2-Chloronaphthalene	5.00	U	1.90	5.00	ug/L
88-74-4	2-Nitroaniline	5.00	U	1.70	5.00	ug/L
131-11-3	Dimethylphthalate	5.00	U	1.80	5.00	ug/L
208-96-8	Acenaphthylene	5.00	U	2.10	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	5.00	U	1.80	5.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-103I	SDG No.:	M1770
Lab Sample ID:	M1770-14	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF123489.D	1	03/25/21 08:35	03/26/21 16:42	PB135347

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	5.00	U	2.20	5.00	ug/L
83-32-9	Acenaphthene	5.00	U	2.30	5.00	ug/L
51-28-5	2,4-Dinitrophenol	10.0	U	5.40	10.0	ug/L
100-02-7	4-Nitrophenol	10.0	U	3.70	10.0	ug/L
132-64-9	Dibenzofuran	5.00	U	2.20	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	5.00	U	2.10	5.00	ug/L
84-66-2	Diethylphthalate	5.00	U	2.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	5.00	U	2.40	5.00	ug/L
86-73-7	Fluorene	5.00	U	2.20	5.00	ug/L
100-01-6	4-Nitroaniline	5.00	U	2.50	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.0	U	2.80	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	5.00	U	2.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	5.00	U	2.10	5.00	ug/L
118-74-1	Hexachlorobenzene	5.00	U	2.10	5.00	ug/L
1912-24-9	Atrazine	5.00	U	2.80	5.00	ug/L
87-86-5	Pentachlorophenol	10.0	U	2.20	10.0	ug/L
85-01-8	Phenanthrene	5.00	U	2.20	5.00	ug/L
120-12-7	Anthracene	5.00	U	2.30	5.00	ug/L
86-74-8	Carbazole	5.00	U	2.40	5.00	ug/L
84-74-2	Di-n-butylphthalate	5.00	U	2.80	5.00	ug/L
206-44-0	Fluoranthene	5.00	U	2.60	5.00	ug/L
129-00-0	Pyrene	5.00	U	1.90	5.00	ug/L
85-68-7	Butylbenzylphthalate	5.00	U	2.60	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	5.00	U	2.70	5.00	ug/L
56-55-3	Benzo(a)anthracene	5.00	U	2.20	5.00	ug/L
218-01-9	Chrysene	5.00	U	2.30	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	5.00	U	2.80	5.00	ug/L
117-84-0	Di-n-octyl phthalate	10.0	U	3.70	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	5.00	U	2.00	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	5.00	U	2.00	5.00	ug/L
50-32-8	Benzo(a)pyrene	5.00	U	2.00	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	2.60	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.00	U	2.30	5.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-103I	SDG No.:	M1770
Lab Sample ID:	M1770-14	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF123489.D	1	03/25/21 08:35	03/26/21 16:42	PB135347

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	5.00	U	2.00	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	5.00	U	2.10	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	5.00	U	2.00	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	55.9		10 - 139	37%	SPK: 150
13127-88-3	Phenol-d6	34.0		10 - 134	23%	SPK: 150
4165-60-0	Nitrobenzene-d5	88.2		49 - 133	88%	SPK: 100
321-60-8	2-Fluorobiphenyl	74.6		52 - 132	75%	SPK: 100
118-79-6	2,4,6-Tribromophenol	128		45 - 141	85%	SPK: 150
1718-51-0	Terphenyl-d14	78.5		45 - 142	79%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	254000	6.898			
1146-65-2	Naphthalene-d8	950000	8.186			
15067-26-2	Acenaphthene-d10	532000	9.945			
1517-22-2	Phenanthrene-d10	901000	11.433			
1719-03-5	Chrysene-d12	601000	14.08			
1520-96-3	Perylene-d12	467000	15.58			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-101S	SDG No.:	M1770
Lab Sample ID:	M1770-15	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF123490.D	1	03/25/21 08:35	03/26/21 17:16	PB135347

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.0	U	3.60	10.0	ug/L
108-95-2	Phenol	2.20	J	1.50	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	5.00	U	1.40	5.00	ug/L
95-57-8	2-Chlorophenol	5.00	U	1.40	5.00	ug/L
95-48-7	2-Methylphenol	5.00	U	1.90	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	5.00	U	1.60	5.00	ug/L
98-86-2	Acetophenone	5.00	U	1.90	5.00	ug/L
65794-96-9	3+4-Methylphenols	10.0	U	3.90	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	5.00	U	1.70	5.00	ug/L
67-72-1	Hexachloroethane	5.00	U	1.60	5.00	ug/L
98-95-3	Nitrobenzene	5.00	U	1.60	5.00	ug/L
78-59-1	Isophorone	5.00	U	2.00	5.00	ug/L
88-75-5	2-Nitrophenol	5.00	U	1.90	5.00	ug/L
105-67-9	2,4-Dimethylphenol	5.00	U	2.30	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	5.00	U	2.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	5.00	U	1.90	5.00	ug/L
91-20-3	Naphthalene	5.00	U	1.90	5.00	ug/L
106-47-8	4-Chloroaniline	5.00	U	2.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	5.00	U	1.90	5.00	ug/L
105-60-2	Caprolactam	7.10	J	2.60	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	5.00	U	1.90	5.00	ug/L
91-57-6	2-Methylnaphthalene	5.00	U	2.20	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	10.0	U	4.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	5.00	U	1.70	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	5.00	U	1.80	5.00	ug/L
92-52-4	1,1-Biphenyl	5.00	U	2.20	5.00	ug/L
91-58-7	2-Chloronaphthalene	5.00	U	1.90	5.00	ug/L
88-74-4	2-Nitroaniline	5.00	U	1.70	5.00	ug/L
131-11-3	Dimethylphthalate	5.00	U	1.80	5.00	ug/L
208-96-8	Acenaphthylene	5.00	U	2.10	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	5.00	U	1.80	5.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-101S	SDG No.:	M1770
Lab Sample ID:	M1770-15	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF123490.D	1	03/25/21 08:35	03/26/21 17:16	PB135347

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	5.00	U	2.20	5.00	ug/L
83-32-9	Acenaphthene	5.00	U	2.30	5.00	ug/L
51-28-5	2,4-Dinitrophenol	10.0	U	5.40	10.0	ug/L
100-02-7	4-Nitrophenol	10.0	U	3.70	10.0	ug/L
132-64-9	Dibenzofuran	5.00	U	2.20	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	5.00	U	2.10	5.00	ug/L
84-66-2	Diethylphthalate	5.00	U	2.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	5.00	U	2.40	5.00	ug/L
86-73-7	Fluorene	5.00	U	2.20	5.00	ug/L
100-01-6	4-Nitroaniline	5.00	U	2.50	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.0	U	2.80	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	5.00	U	2.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	5.00	U	2.10	5.00	ug/L
118-74-1	Hexachlorobenzene	5.00	U	2.10	5.00	ug/L
1912-24-9	Atrazine	5.00	U	2.80	5.00	ug/L
87-86-5	Pentachlorophenol	10.0	U	2.20	10.0	ug/L
85-01-8	Phenanthrene	5.00	U	2.20	5.00	ug/L
120-12-7	Anthracene	5.00	U	2.30	5.00	ug/L
86-74-8	Carbazole	5.00	U	2.40	5.00	ug/L
84-74-2	Di-n-butylphthalate	5.00	U	2.80	5.00	ug/L
206-44-0	Fluoranthene	5.00	U	2.60	5.00	ug/L
129-00-0	Pyrene	5.00	U	1.90	5.00	ug/L
85-68-7	Butylbenzylphthalate	5.00	U	2.60	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	5.00	U	2.70	5.00	ug/L
56-55-3	Benzo(a)anthracene	5.00	U	2.20	5.00	ug/L
218-01-9	Chrysene	5.00	U	2.30	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	5.00	U	2.80	5.00	ug/L
117-84-0	Di-n-octyl phthalate	10.0	U	3.70	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	5.00	U	2.00	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	5.00	U	2.00	5.00	ug/L
50-32-8	Benzo(a)pyrene	5.00	U	2.00	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	2.60	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.00	U	2.30	5.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-101S	SDG No.:	M1770
Lab Sample ID:	M1770-15	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF123490.D	1	03/25/21 08:35	03/26/21 17:16	PB135347

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	5.00	U	2.00	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	5.00	U	2.10	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	5.00	U	2.00	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	59.3		10 - 139	40%	SPK: 150
13127-88-3	Phenol-d6	34.5		10 - 134	23%	SPK: 150
4165-60-0	Nitrobenzene-d5	97.2		49 - 133	97%	SPK: 100
321-60-8	2-Fluorobiphenyl	82.1		52 - 132	82%	SPK: 100
118-79-6	2,4,6-Tribromophenol	138		45 - 141	92%	SPK: 150
1718-51-0	Terphenyl-d14	83.6		45 - 142	84%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	254000	6.898			
1146-65-2	Naphthalene-d8	949000	8.181			
15067-26-2	Acenaphthene-d10	527000	9.945			
1517-22-2	Phenanthrene-d10	911000	11.433			
1719-03-5	Chrysene-d12	599000	14.08			
1520-96-3	Perylene-d12	468000	15.58			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-101I	SDG No.:	M1770
Lab Sample ID:	M1770-16	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF123495.D	1	03/25/21 08:35	03/26/21 20:02	PB135347

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.0	U	3.60	10.0	ug/L
108-95-2	Phenol	5.00	U	1.50	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	5.00	U	1.40	5.00	ug/L
95-57-8	2-Chlorophenol	5.00	U	1.40	5.00	ug/L
95-48-7	2-Methylphenol	5.00	U	1.90	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	5.00	U	1.60	5.00	ug/L
98-86-2	Acetophenone	5.00	U	1.90	5.00	ug/L
65794-96-9	3+4-Methylphenols	10.0	U	3.90	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	5.00	U	1.70	5.00	ug/L
67-72-1	Hexachloroethane	5.00	U	1.60	5.00	ug/L
98-95-3	Nitrobenzene	5.00	U	1.60	5.00	ug/L
78-59-1	Isophorone	5.00	U	2.00	5.00	ug/L
88-75-5	2-Nitrophenol	5.00	U	1.90	5.00	ug/L
105-67-9	2,4-Dimethylphenol	5.00	U	2.30	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	5.00	U	2.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	5.00	U	1.90	5.00	ug/L
91-20-3	Naphthalene	5.00	U	1.90	5.00	ug/L
106-47-8	4-Chloroaniline	5.00	U	2.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	5.00	U	1.90	5.00	ug/L
105-60-2	Caprolactam	10.1		2.60	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	5.00	U	1.90	5.00	ug/L
91-57-6	2-Methylnaphthalene	5.00	U	2.20	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	10.0	U	4.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	5.00	U	1.70	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	5.00	U	1.80	5.00	ug/L
92-52-4	1,1-Biphenyl	5.00	U	2.20	5.00	ug/L
91-58-7	2-Chloronaphthalene	5.00	U	1.90	5.00	ug/L
88-74-4	2-Nitroaniline	5.00	U	1.70	5.00	ug/L
131-11-3	Dimethylphthalate	5.00	U	1.80	5.00	ug/L
208-96-8	Acenaphthylene	5.00	U	2.10	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	5.00	U	1.80	5.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-101I	SDG No.:	M1770
Lab Sample ID:	M1770-16	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF123495.D	1	03/25/21 08:35	03/26/21 20:02	PB135347

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	5.00	U	2.20	5.00	ug/L
83-32-9	Acenaphthene	5.00	U	2.30	5.00	ug/L
51-28-5	2,4-Dinitrophenol	10.0	U	5.40	10.0	ug/L
100-02-7	4-Nitrophenol	10.0	U	3.70	10.0	ug/L
132-64-9	Dibenzofuran	5.00	U	2.20	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	5.00	U	2.10	5.00	ug/L
84-66-2	Diethylphthalate	5.00	U	2.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	5.00	U	2.40	5.00	ug/L
86-73-7	Fluorene	5.00	U	2.20	5.00	ug/L
100-01-6	4-Nitroaniline	5.00	U	2.50	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.0	U	2.80	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	5.00	U	2.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	5.00	U	2.10	5.00	ug/L
118-74-1	Hexachlorobenzene	5.00	U	2.10	5.00	ug/L
1912-24-9	Atrazine	5.00	U	2.80	5.00	ug/L
87-86-5	Pentachlorophenol	10.0	U	2.20	10.0	ug/L
85-01-8	Phenanthrene	5.00	U	2.20	5.00	ug/L
120-12-7	Anthracene	5.00	U	2.30	5.00	ug/L
86-74-8	Carbazole	5.00	U	2.40	5.00	ug/L
84-74-2	Di-n-butylphthalate	5.00	U	2.80	5.00	ug/L
206-44-0	Fluoranthene	5.00	U	2.60	5.00	ug/L
129-00-0	Pyrene	5.00	U	1.90	5.00	ug/L
85-68-7	Butylbenzylphthalate	5.00	U	2.60	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	5.00	U	2.70	5.00	ug/L
56-55-3	Benzo(a)anthracene	5.00	U	2.20	5.00	ug/L
218-01-9	Chrysene	5.00	U	2.30	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	5.00	U	2.80	5.00	ug/L
117-84-0	Di-n-octyl phthalate	10.0	U	3.70	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	5.00	U	2.00	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	5.00	U	2.00	5.00	ug/L
50-32-8	Benzo(a)pyrene	5.00	U	2.00	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	2.60	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.00	U	2.30	5.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-101I	SDG No.:	M1770
Lab Sample ID:	M1770-16	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF123495.D	1	03/25/21 08:35	03/26/21 20:02	PB135347

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	5.00	U	2.00	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	5.00	U	2.10	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	5.00	U	2.00	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	55.9		10 - 139	37%	SPK: 150
13127-88-3	Phenol-d6	35.0		10 - 134	23%	SPK: 150
4165-60-0	Nitrobenzene-d5	91.7		49 - 133	92%	SPK: 100
321-60-8	2-Fluorobiphenyl	78.1		52 - 132	78%	SPK: 100
118-79-6	2,4,6-Tribromophenol	128		45 - 141	85%	SPK: 150
1718-51-0	Terphenyl-d14	86.9		45 - 142	87%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	260000	6.898			
1146-65-2	Naphthalene-d8	960000	8.186			
15067-26-2	Acenaphthene-d10	529000	9.945			
1517-22-2	Phenanthrene-d10	889000	11.433			
1719-03-5	Chrysene-d12	529000	14.08			
1520-96-3	Perylene-d12	471000	15.574			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-101D	SDG No.:	M1770
Lab Sample ID:	M1770-17	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM029254.D	1	03/25/21 08:35	03/29/21 21:08	PB135347

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.0	U	3.60	10.0	ug/L
108-95-2	Phenol	3.60	J	1.50	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	5.00	U	1.40	5.00	ug/L
95-57-8	2-Chlorophenol	5.00	U	1.40	5.00	ug/L
95-48-7	2-Methylphenol	5.00	U	1.90	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	5.00	U	1.60	5.00	ug/L
98-86-2	Acetophenone	5.00	U	1.90	5.00	ug/L
65794-96-9	3+4-Methylphenols	10.0	U	3.90	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	5.00	U	1.70	5.00	ug/L
67-72-1	Hexachloroethane	5.00	U	1.60	5.00	ug/L
98-95-3	Nitrobenzene	5.00	U	1.60	5.00	ug/L
78-59-1	Isophorone	5.00	U	2.00	5.00	ug/L
88-75-5	2-Nitrophenol	5.00	U	1.90	5.00	ug/L
105-67-9	2,4-Dimethylphenol	5.00	U	2.30	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	5.00	U	2.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	5.00	U	1.90	5.00	ug/L
91-20-3	Naphthalene	5.00	U	1.90	5.00	ug/L
106-47-8	4-Chloroaniline	5.00	U	2.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	5.00	U	1.90	5.00	ug/L
105-60-2	Caprolactam	8.00	J	2.60	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	5.00	U	1.90	5.00	ug/L
91-57-6	2-Methylnaphthalene	5.00	U	2.20	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	10.0	U	4.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	5.00	U	1.70	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	5.00	U	1.80	5.00	ug/L
92-52-4	1,1-Biphenyl	5.00	U	2.20	5.00	ug/L
91-58-7	2-Chloronaphthalene	5.00	U	1.90	5.00	ug/L
88-74-4	2-Nitroaniline	5.00	U	1.70	5.00	ug/L
131-11-3	Dimethylphthalate	5.00	U	1.80	5.00	ug/L
208-96-8	Acenaphthylene	5.00	U	2.10	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	5.00	U	1.80	5.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-101D	SDG No.:	M1770
Lab Sample ID:	M1770-17	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM029254.D	1	03/25/21 08:35	03/29/21 21:08	PB135347

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	5.00	U	2.20	5.00	ug/L
83-32-9	Acenaphthene	5.00	U	2.30	5.00	ug/L
51-28-5	2,4-Dinitrophenol	10.0	U	5.40	10.0	ug/L
100-02-7	4-Nitrophenol	10.0	U	3.70	10.0	ug/L
132-64-9	Dibenzofuran	5.00	U	2.20	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	5.00	U	2.10	5.00	ug/L
84-66-2	Diethylphthalate	5.00	U	2.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	5.00	U	2.40	5.00	ug/L
86-73-7	Fluorene	5.00	U	2.20	5.00	ug/L
100-01-6	4-Nitroaniline	5.00	U	2.50	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.0	U	2.80	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	5.00	U	2.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	5.00	U	2.10	5.00	ug/L
118-74-1	Hexachlorobenzene	5.00	U	2.10	5.00	ug/L
1912-24-9	Atrazine	5.00	U	2.80	5.00	ug/L
87-86-5	Pentachlorophenol	10.0	U	2.20	10.0	ug/L
85-01-8	Phenanthrene	5.00	U	2.20	5.00	ug/L
120-12-7	Anthracene	5.00	U	2.30	5.00	ug/L
86-74-8	Carbazole	5.00	U	2.40	5.00	ug/L
84-74-2	Di-n-butylphthalate	5.00	U	2.80	5.00	ug/L
206-44-0	Fluoranthene	5.00	U	2.60	5.00	ug/L
129-00-0	Pyrene	5.00	U	1.90	5.00	ug/L
85-68-7	Butylbenzylphthalate	5.00	U	2.60	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	5.00	U	2.70	5.00	ug/L
56-55-3	Benzo(a)anthracene	5.00	U	2.20	5.00	ug/L
218-01-9	Chrysene	5.00	U	2.30	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	3.70	J	2.80	5.00	ug/L
117-84-0	Di-n-octyl phthalate	10.0	U	3.70	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	5.00	U	2.00	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	5.00	U	2.00	5.00	ug/L
50-32-8	Benzo(a)pyrene	5.00	U	2.00	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	2.60	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.00	U	2.30	5.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-101D	SDG No.:	M1770
Lab Sample ID:	M1770-17	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM029254.D	1	03/25/21 08:35	03/29/21 21:08	PB135347

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	5.00	U	2.00	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	5.00	U	2.10	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	5.00	U	2.00	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	65.5		10 - 139	44%	SPK: 150
13127-88-3	Phenol-d6	35.7		10 - 134	24%	SPK: 150
4165-60-0	Nitrobenzene-d5	97.8		49 - 133	98%	SPK: 100
321-60-8	2-Fluorobiphenyl	97.7		52 - 132	98%	SPK: 100
118-79-6	2,4,6-Tribromophenol	156		45 - 141	104%	SPK: 150
1718-51-0	Terphenyl-d14	87.5		45 - 142	87%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	108000	7.751			
1146-65-2	Naphthalene-d8	427000	10.533			
15067-26-2	Acenaphthene-d10	245000	14.374			
1517-22-2	Phenanthrene-d10	482000	17.115			
1719-03-5	Chrysene-d12	489000	21.28			
1520-96-3	Perylene-d12	537000	23.515			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	FB-03232021	SDG No.:	M1770
Lab Sample ID:	M1770-18	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM029255.D	1	03/25/21 08:35	03/29/21 21:45	PB135347

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.0	U	3.60	10.0	ug/L
108-95-2	Phenol	3.00	J	1.50	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	5.00	U	1.40	5.00	ug/L
95-57-8	2-Chlorophenol	5.00	U	1.40	5.00	ug/L
95-48-7	2-Methylphenol	5.00	U	1.90	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	5.00	U	1.60	5.00	ug/L
98-86-2	Acetophenone	5.00	U	1.90	5.00	ug/L
65794-96-9	3+4-Methylphenols	10.0	U	3.90	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	5.00	U	1.70	5.00	ug/L
67-72-1	Hexachloroethane	5.00	U	1.60	5.00	ug/L
98-95-3	Nitrobenzene	5.00	U	1.60	5.00	ug/L
78-59-1	Isophorone	5.00	U	2.00	5.00	ug/L
88-75-5	2-Nitrophenol	5.00	U	1.90	5.00	ug/L
105-67-9	2,4-Dimethylphenol	5.00	U	2.30	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	5.00	U	2.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	5.00	U	1.90	5.00	ug/L
91-20-3	Naphthalene	5.00	U	1.90	5.00	ug/L
106-47-8	4-Chloroaniline	5.00	U	2.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	5.00	U	1.90	5.00	ug/L
105-60-2	Caprolactam	10.0	U	2.60	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	5.00	U	1.90	5.00	ug/L
91-57-6	2-Methylnaphthalene	5.00	U	2.20	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	10.0	U	4.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	5.00	U	1.70	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	5.00	U	1.80	5.00	ug/L
92-52-4	1,1-Biphenyl	5.00	U	2.20	5.00	ug/L
91-58-7	2-Chloronaphthalene	5.00	U	1.90	5.00	ug/L
88-74-4	2-Nitroaniline	5.00	U	1.70	5.00	ug/L
131-11-3	Dimethylphthalate	5.00	U	1.80	5.00	ug/L
208-96-8	Acenaphthylene	5.00	U	2.10	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	5.00	U	1.80	5.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	FB-03232021	SDG No.:	M1770
Lab Sample ID:	M1770-18	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM029255.D	1	03/25/21 08:35	03/29/21 21:45	PB135347

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	5.00	U	2.20	5.00	ug/L
83-32-9	Acenaphthene	5.00	U	2.30	5.00	ug/L
51-28-5	2,4-Dinitrophenol	10.0	U	5.40	10.0	ug/L
100-02-7	4-Nitrophenol	10.0	U	3.70	10.0	ug/L
132-64-9	Dibenzofuran	5.00	U	2.20	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	5.00	U	2.10	5.00	ug/L
84-66-2	Diethylphthalate	5.00	U	2.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	5.00	U	2.40	5.00	ug/L
86-73-7	Fluorene	5.00	U	2.20	5.00	ug/L
100-01-6	4-Nitroaniline	5.00	U	2.50	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.0	U	2.80	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	5.00	U	2.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	5.00	U	2.10	5.00	ug/L
118-74-1	Hexachlorobenzene	5.00	U	2.10	5.00	ug/L
1912-24-9	Atrazine	5.00	U	2.80	5.00	ug/L
87-86-5	Pentachlorophenol	10.0	U	2.20	10.0	ug/L
85-01-8	Phenanthrene	5.00	U	2.20	5.00	ug/L
120-12-7	Anthracene	5.00	U	2.30	5.00	ug/L
86-74-8	Carbazole	5.00	U	2.40	5.00	ug/L
84-74-2	Di-n-butylphthalate	5.00	U	2.80	5.00	ug/L
206-44-0	Fluoranthene	5.00	U	2.60	5.00	ug/L
129-00-0	Pyrene	5.00	U	1.90	5.00	ug/L
85-68-7	Butylbenzylphthalate	5.00	U	2.60	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	5.00	U	2.70	5.00	ug/L
56-55-3	Benzo(a)anthracene	5.00	U	2.20	5.00	ug/L
218-01-9	Chrysene	5.00	U	2.30	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	3.70	J	2.80	5.00	ug/L
117-84-0	Di-n-octyl phthalate	10.0	U	3.70	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	5.00	U	2.00	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	5.00	U	2.00	5.00	ug/L
50-32-8	Benzo(a)pyrene	5.00	U	2.00	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	2.60	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.00	U	2.30	5.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	FB-03232021	SDG No.:	M1770
Lab Sample ID:	M1770-18	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM029255.D	1	03/25/21 08:35	03/29/21 21:45	PB135347

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	5.00	U	2.00	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	5.00	U	2.10	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	5.00	U	2.00	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	61.0		10 - 139	41%	SPK: 150
13127-88-3	Phenol-d6	33.1		10 - 134	22%	SPK: 150
4165-60-0	Nitrobenzene-d5	93.7		49 - 133	94%	SPK: 100
321-60-8	2-Fluorobiphenyl	92.8		52 - 132	93%	SPK: 100
118-79-6	2,4,6-Tribromophenol	158		45 - 141	105%	SPK: 150
1718-51-0	Terphenyl-d14	86.8		45 - 142	87%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	105000	7.751			
1146-65-2	Naphthalene-d8	414000	10.533			
15067-26-2	Acenaphthene-d10	240000	14.374			
1517-22-2	Phenanthrene-d10	495000	17.115			
1719-03-5	Chrysene-d12	547000	21.28			
1520-96-3	Perylene-d12	590000	23.515			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/24/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/24/21
Client Sample ID:	MW-103S	SDG No.:	M1770
Lab Sample ID:	M1770-20	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM029252.D	1	03/25/21 08:35	03/29/21 19:56	PB135347

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.0	U	3.60	10.0	ug/L
108-95-2	Phenol	2.10	J	1.50	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	5.00	U	1.40	5.00	ug/L
95-57-8	2-Chlorophenol	5.00	U	1.40	5.00	ug/L
95-48-7	2-Methylphenol	5.00	U	1.90	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	5.00	U	1.60	5.00	ug/L
98-86-2	Acetophenone	5.00	U	1.90	5.00	ug/L
65794-96-9	3+4-Methylphenols	10.0	U	3.90	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	5.00	U	1.70	5.00	ug/L
67-72-1	Hexachloroethane	5.00	U	1.60	5.00	ug/L
98-95-3	Nitrobenzene	5.00	U	1.60	5.00	ug/L
78-59-1	Isophorone	5.00	U	2.00	5.00	ug/L
88-75-5	2-Nitrophenol	5.00	U	1.90	5.00	ug/L
105-67-9	2,4-Dimethylphenol	5.00	U	2.30	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	5.00	U	2.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	5.00	U	1.90	5.00	ug/L
91-20-3	Naphthalene	4.20	J	1.90	5.00	ug/L
106-47-8	4-Chloroaniline	5.00	U	2.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	5.00	U	1.90	5.00	ug/L
105-60-2	Caprolactam	9.00	J	2.60	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	5.00	U	1.90	5.00	ug/L
91-57-6	2-Methylnaphthalene	5.00	U	2.20	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	10.0	U	4.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	5.00	U	1.70	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	5.00	U	1.80	5.00	ug/L
92-52-4	1,1-Biphenyl	5.00	U	2.20	5.00	ug/L
91-58-7	2-Chloronaphthalene	5.00	U	1.90	5.00	ug/L
88-74-4	2-Nitroaniline	5.00	U	1.70	5.00	ug/L
131-11-3	Dimethylphthalate	2.70	J	1.80	5.00	ug/L
208-96-8	Acenaphthylene	5.00	U	2.10	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	5.00	U	1.80	5.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/24/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/24/21
Client Sample ID:	MW-103S	SDG No.:	M1770
Lab Sample ID:	M1770-20	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM029252.D	1	03/25/21 08:35	03/29/21 19:56	PB135347

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	5.00	U	2.20	5.00	ug/L
83-32-9	Acenaphthene	4.60	J	2.30	5.00	ug/L
51-28-5	2,4-Dinitrophenol	10.0	U	5.40	10.0	ug/L
100-02-7	4-Nitrophenol	10.0	U	3.70	10.0	ug/L
132-64-9	Dibenzofuran	5.00	U	2.20	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	5.00	U	2.10	5.00	ug/L
84-66-2	Diethylphthalate	5.00	U	2.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	5.00	U	2.40	5.00	ug/L
86-73-7	Fluorene	5.00	U	2.20	5.00	ug/L
100-01-6	4-Nitroaniline	5.00	U	2.50	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.0	U	2.80	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	5.00	U	2.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	5.00	U	2.10	5.00	ug/L
118-74-1	Hexachlorobenzene	5.00	U	2.10	5.00	ug/L
1912-24-9	Atrazine	5.00	U	2.80	5.00	ug/L
87-86-5	Pentachlorophenol	10.0	U	2.20	10.0	ug/L
85-01-8	Phenanthrene	5.00	U	2.20	5.00	ug/L
120-12-7	Anthracene	5.00	U	2.30	5.00	ug/L
86-74-8	Carbazole	5.00	U	2.40	5.00	ug/L
84-74-2	Di-n-butylphthalate	5.00	U	2.80	5.00	ug/L
206-44-0	Fluoranthene	5.00	U	2.60	5.00	ug/L
129-00-0	Pyrene	5.00	U	1.90	5.00	ug/L
85-68-7	Butylbenzylphthalate	5.00	U	2.60	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	5.00	U	2.70	5.00	ug/L
56-55-3	Benzo(a)anthracene	5.00	U	2.20	5.00	ug/L
218-01-9	Chrysene	5.00	U	2.30	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	3.80	J	2.80	5.00	ug/L
117-84-0	Di-n-octyl phthalate	10.0	U	3.70	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	5.00	U	2.00	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	5.00	U	2.00	5.00	ug/L
50-32-8	Benzo(a)pyrene	5.00	U	2.00	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	2.60	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.00	U	2.30	5.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/24/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/24/21
Client Sample ID:	MW-103S	SDG No.:	M1770
Lab Sample ID:	M1770-20	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM029252.D	1	03/25/21 08:35	03/29/21 19:56	PB135347

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	5.00	U	2.00	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	5.00	U	2.10	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	5.00	U	2.00	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	60.4		10 - 139	40%	SPK: 150
13127-88-3	Phenol-d6	34.4		10 - 134	23%	SPK: 150
4165-60-0	Nitrobenzene-d5	83.2		49 - 133	83%	SPK: 100
321-60-8	2-Fluorobiphenyl	76.7		52 - 132	77%	SPK: 100
118-79-6	2,4,6-Tribromophenol	131		45 - 141	87%	SPK: 150
1718-51-0	Terphenyl-d14	62.3		45 - 142	62%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	109000	7.752			
1146-65-2	Naphthalene-d8	441000	10.534			
15067-26-2	Acenaphthene-d10	268000	14.375			
1517-22-2	Phenanthrene-d10	546000	17.116			
1719-03-5	Chrysene-d12	556000	21.286			
1520-96-3	Perylene-d12	621000	23.515			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/24/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/24/21
Client Sample ID:	MW-102D	SDG No.:	M1770
Lab Sample ID:	M1770-21	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP005126.D	1	03/25/21 08:35	03/31/21 15:03	PB135347

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.0	U	3.60	10.0	ug/L
108-95-2	Phenol	5.00	U	1.50	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	5.00	U	1.40	5.00	ug/L
95-57-8	2-Chlorophenol	5.00	U	1.40	5.00	ug/L
95-48-7	2-Methylphenol	5.00	U	1.90	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	5.00	U	1.60	5.00	ug/L
98-86-2	Acetophenone	5.00	U	1.90	5.00	ug/L
65794-96-9	3+4-Methylphenols	10.0	U	3.90	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	5.00	U	1.70	5.00	ug/L
67-72-1	Hexachloroethane	5.00	U	1.60	5.00	ug/L
98-95-3	Nitrobenzene	5.00	U	1.60	5.00	ug/L
78-59-1	Isophorone	5.00	U	2.00	5.00	ug/L
88-75-5	2-Nitrophenol	5.00	U	1.90	5.00	ug/L
105-67-9	2,4-Dimethylphenol	5.00	U	2.30	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	5.00	U	2.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	5.00	U	1.90	5.00	ug/L
91-20-3	Naphthalene	5.00	U	1.90	5.00	ug/L
106-47-8	4-Chloroaniline	5.00	U	2.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	5.00	U	1.90	5.00	ug/L
105-60-2	Caprolactam	10.0	U	2.60	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	5.00	U	1.90	5.00	ug/L
91-57-6	2-Methylnaphthalene	5.00	U	2.20	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	10.0	U	4.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	5.00	U	1.70	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	5.00	U	1.80	5.00	ug/L
92-52-4	1,1-Biphenyl	5.00	U	2.20	5.00	ug/L
91-58-7	2-Chloronaphthalene	5.00	U	1.90	5.00	ug/L
88-74-4	2-Nitroaniline	5.00	U	1.70	5.00	ug/L
131-11-3	Dimethylphthalate	5.00	U	1.80	5.00	ug/L
208-96-8	Acenaphthylene	5.00	U	2.10	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	5.00	U	1.80	5.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/24/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/24/21
Client Sample ID:	MW-102D	SDG No.:	M1770
Lab Sample ID:	M1770-21	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP005126.D	1	03/25/21 08:35	03/31/21 15:03	PB135347

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	5.00	U	2.20	5.00	ug/L
83-32-9	Acenaphthene	5.00	U	2.30	5.00	ug/L
51-28-5	2,4-Dinitrophenol	10.0	U	5.40	10.0	ug/L
100-02-7	4-Nitrophenol	10.0	U	3.70	10.0	ug/L
132-64-9	Dibenzofuran	5.00	U	2.20	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	5.00	U	2.10	5.00	ug/L
84-66-2	Diethylphthalate	5.00	U	2.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	5.00	U	2.40	5.00	ug/L
86-73-7	Fluorene	5.00	U	2.20	5.00	ug/L
100-01-6	4-Nitroaniline	5.00	U	2.50	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.0	U	2.80	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	5.00	U	2.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	5.00	U	2.10	5.00	ug/L
118-74-1	Hexachlorobenzene	5.00	U	2.10	5.00	ug/L
1912-24-9	Atrazine	5.00	U	2.80	5.00	ug/L
87-86-5	Pentachlorophenol	10.0	U	2.20	10.0	ug/L
85-01-8	Phenanthrene	5.00	U	2.20	5.00	ug/L
120-12-7	Anthracene	5.00	U	2.30	5.00	ug/L
86-74-8	Carbazole	5.00	U	2.40	5.00	ug/L
84-74-2	Di-n-butylphthalate	5.00	U	2.80	5.00	ug/L
206-44-0	Fluoranthene	5.00	U	2.60	5.00	ug/L
129-00-0	Pyrene	5.00	U	1.90	5.00	ug/L
85-68-7	Butylbenzylphthalate	5.00	U	2.60	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	5.00	U	2.70	5.00	ug/L
56-55-3	Benzo(a)anthracene	5.00	U	2.20	5.00	ug/L
218-01-9	Chrysene	5.00	U	2.30	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	5.00	U	2.80	5.00	ug/L
117-84-0	Di-n-octyl phthalate	10.0	U	3.70	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	5.00	U	2.00	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	5.00	U	2.00	5.00	ug/L
50-32-8	Benzo(a)pyrene	5.00	U	2.00	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	2.60	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.00	U	2.30	5.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/24/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/24/21
Client Sample ID:	MW-102D	SDG No.:	M1770
Lab Sample ID:	M1770-21	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP005126.D	1	03/25/21 08:35	03/31/21 15:03	PB135347

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	5.00	U	2.00	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	5.00	U	2.10	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	5.00	U	2.00	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	20.6		10 - 139	14%	SPK: 150
13127-88-3	Phenol-d6	11.7	*	10 - 134	8%	SPK: 150
4165-60-0	Nitrobenzene-d5	24.7	*	49 - 133	25%	SPK: 100
321-60-8	2-Fluorobiphenyl	27.7	*	52 - 132	28%	SPK: 100
118-79-6	2,4,6-Tribromophenol	48.5	*	45 - 141	32%	SPK: 150
1718-51-0	Terphenyl-d14	25.5	*	45 - 142	25%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	38700	7.711			
1146-65-2	Naphthalene-d8	158000	10.504			
15067-26-2	Acenaphthene-d10	101000	14.369			
1517-22-2	Phenanthrene-d10	213000	17.128			
1719-03-5	Chrysene-d12	213000	21.222			
1520-96-3	Perylene-d12	225000	23.51			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/24/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/24/21
Client Sample ID:	MW-102DRE	SDG No.:	M1770
Lab Sample ID:	M1770-21RE	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP005139.D	1	03/25/21 08:35	04/01/21 16:51	PB135347

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.0	U	3.60	10.0	ug/L
108-95-2	Phenol	5.00	U	1.50	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	5.00	U	1.40	5.00	ug/L
95-57-8	2-Chlorophenol	5.00	U	1.40	5.00	ug/L
95-48-7	2-Methylphenol	5.00	U	1.90	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	5.00	U	1.60	5.00	ug/L
98-86-2	Acetophenone	5.00	U	1.90	5.00	ug/L
65794-96-9	3+4-Methylphenols	10.0	U	3.90	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	5.00	U	1.70	5.00	ug/L
67-72-1	Hexachloroethane	5.00	U	1.60	5.00	ug/L
98-95-3	Nitrobenzene	5.00	U	1.60	5.00	ug/L
78-59-1	Isophorone	5.00	U	2.00	5.00	ug/L
88-75-5	2-Nitrophenol	5.00	U	1.90	5.00	ug/L
105-67-9	2,4-Dimethylphenol	5.00	U	2.30	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	5.00	U	2.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	5.00	U	1.90	5.00	ug/L
91-20-3	Naphthalene	5.00	U	1.90	5.00	ug/L
106-47-8	4-Chloroaniline	5.00	U	2.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	5.00	U	1.90	5.00	ug/L
105-60-2	Caprolactam	10.0	U	2.60	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	5.00	U	1.90	5.00	ug/L
91-57-6	2-Methylnaphthalene	5.00	U	2.20	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	10.0	U	4.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	5.00	U	1.70	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	5.00	U	1.80	5.00	ug/L
92-52-4	1,1-Biphenyl	5.00	U	2.20	5.00	ug/L
91-58-7	2-Chloronaphthalene	5.00	U	1.90	5.00	ug/L
88-74-4	2-Nitroaniline	5.00	U	1.70	5.00	ug/L
131-11-3	Dimethylphthalate	5.00	U	1.80	5.00	ug/L
208-96-8	Acenaphthylene	5.00	U	2.10	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	5.00	U	1.80	5.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/24/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/24/21
Client Sample ID:	MW-102DRE	SDG No.:	M1770
Lab Sample ID:	M1770-21RE	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP005139.D	1	03/25/21 08:35	04/01/21 16:51	PB135347

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	5.00	U	2.20	5.00	ug/L
83-32-9	Acenaphthene	5.00	U	2.30	5.00	ug/L
51-28-5	2,4-Dinitrophenol	10.0	U	5.40	10.0	ug/L
100-02-7	4-Nitrophenol	10.0	U	3.70	10.0	ug/L
132-64-9	Dibenzofuran	5.00	U	2.20	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	5.00	U	2.10	5.00	ug/L
84-66-2	Diethylphthalate	5.00	U	2.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	5.00	U	2.40	5.00	ug/L
86-73-7	Fluorene	5.00	U	2.20	5.00	ug/L
100-01-6	4-Nitroaniline	5.00	U	2.50	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.0	U	2.80	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	5.00	U	2.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	5.00	U	2.10	5.00	ug/L
118-74-1	Hexachlorobenzene	5.00	U	2.10	5.00	ug/L
1912-24-9	Atrazine	5.00	U	2.80	5.00	ug/L
87-86-5	Pentachlorophenol	10.0	U	2.20	10.0	ug/L
85-01-8	Phenanthrene	5.00	U	2.20	5.00	ug/L
120-12-7	Anthracene	5.00	U	2.30	5.00	ug/L
86-74-8	Carbazole	5.00	U	2.40	5.00	ug/L
84-74-2	Di-n-butylphthalate	5.00	U	2.80	5.00	ug/L
206-44-0	Fluoranthene	5.00	U	2.60	5.00	ug/L
129-00-0	Pyrene	5.00	U	1.90	5.00	ug/L
85-68-7	Butylbenzylphthalate	5.00	U	2.60	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	5.00	U	2.70	5.00	ug/L
56-55-3	Benzo(a)anthracene	5.00	U	2.20	5.00	ug/L
218-01-9	Chrysene	5.00	U	2.30	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	5.00	U	2.80	5.00	ug/L
117-84-0	Di-n-octyl phthalate	10.0	U	3.70	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	5.00	U	2.00	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	5.00	U	2.00	5.00	ug/L
50-32-8	Benzo(a)pyrene	5.00	U	2.00	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	2.60	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.00	U	2.30	5.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/24/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/24/21
Client Sample ID:	MW-102DRE	SDG No.:	M1770
Lab Sample ID:	M1770-21RE	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP005139.D	1	03/25/21 08:35	04/01/21 16:51	PB135347

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	5.00	U	2.00	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	5.00	U	2.10	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	5.00	U	2.00	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	20.6		10 - 139	14%	SPK: 150
13127-88-3	Phenol-d6	11.9	*	10 - 134	8%	SPK: 150
4165-60-0	Nitrobenzene-d5	26.6	*	49 - 133	27%	SPK: 100
321-60-8	2-Fluorobiphenyl	27.0	*	52 - 132	27%	SPK: 100
118-79-6	2,4,6-Tribromophenol	39.3	*	45 - 141	26%	SPK: 150
1718-51-0	Terphenyl-d14	24.1	*	45 - 142	24%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	30300	7.704			
1146-65-2	Naphthalene-d8	122000	10.492			
15067-26-2	Acenaphthene-d10	80000	14.357			
1517-22-2	Phenanthrene-d10	174000	17.121			
1719-03-5	Chrysene-d12	183000	21.215			
1520-96-3	Perylene-d12	186000	23.503			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/24/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/24/21
Client Sample ID:	MW-102S	SDG No.:	M1770
Lab Sample ID:	M1770-22	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF123491.D	1	03/25/21 08:35	03/26/21 17:50	PB135347

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.0	U	3.60	10.0	ug/L
108-95-2	Phenol	5.00	U	1.50	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	5.00	U	1.40	5.00	ug/L
95-57-8	2-Chlorophenol	5.00	U	1.40	5.00	ug/L
95-48-7	2-Methylphenol	5.00	U	1.90	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	5.00	U	1.60	5.00	ug/L
98-86-2	Acetophenone	5.00	U	1.90	5.00	ug/L
65794-96-9	3+4-Methylphenols	10.0	U	3.90	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	5.00	U	1.70	5.00	ug/L
67-72-1	Hexachloroethane	5.00	U	1.60	5.00	ug/L
98-95-3	Nitrobenzene	5.00	U	1.60	5.00	ug/L
78-59-1	Isophorone	5.00	U	2.00	5.00	ug/L
88-75-5	2-Nitrophenol	5.00	U	1.90	5.00	ug/L
105-67-9	2,4-Dimethylphenol	5.00	U	2.30	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	5.00	U	2.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	5.00	U	1.90	5.00	ug/L
91-20-3	Naphthalene	5.00	U	1.90	5.00	ug/L
106-47-8	4-Chloroaniline	5.00	U	2.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	5.00	U	1.90	5.00	ug/L
105-60-2	Caprolactam	10.0	U	2.60	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	5.00	U	1.90	5.00	ug/L
91-57-6	2-Methylnaphthalene	5.00	U	2.20	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	10.0	U	4.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	5.00	U	1.70	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	5.00	U	1.80	5.00	ug/L
92-52-4	1,1-Biphenyl	5.00	U	2.20	5.00	ug/L
91-58-7	2-Chloronaphthalene	5.00	U	1.90	5.00	ug/L
88-74-4	2-Nitroaniline	5.00	U	1.70	5.00	ug/L
131-11-3	Dimethylphthalate	5.00	U	1.80	5.00	ug/L
208-96-8	Acenaphthylene	5.00	U	2.10	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	5.00	U	1.80	5.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/24/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/24/21
Client Sample ID:	MW-102S	SDG No.:	M1770
Lab Sample ID:	M1770-22	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF123491.D	1	03/25/21 08:35	03/26/21 17:50	PB135347

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	5.00	U	2.20	5.00	ug/L
83-32-9	Acenaphthene	5.00	U	2.30	5.00	ug/L
51-28-5	2,4-Dinitrophenol	10.0	U	5.40	10.0	ug/L
100-02-7	4-Nitrophenol	10.0	U	3.70	10.0	ug/L
132-64-9	Dibenzofuran	5.00	U	2.20	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	5.00	U	2.10	5.00	ug/L
84-66-2	Diethylphthalate	5.00	U	2.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	5.00	U	2.40	5.00	ug/L
86-73-7	Fluorene	5.00	U	2.20	5.00	ug/L
100-01-6	4-Nitroaniline	5.00	U	2.50	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.0	U	2.80	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	5.00	U	2.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	5.00	U	2.10	5.00	ug/L
118-74-1	Hexachlorobenzene	5.00	U	2.10	5.00	ug/L
1912-24-9	Atrazine	5.00	U	2.80	5.00	ug/L
87-86-5	Pentachlorophenol	10.0	U	2.20	10.0	ug/L
85-01-8	Phenanthrene	5.00	U	2.20	5.00	ug/L
120-12-7	Anthracene	5.00	U	2.30	5.00	ug/L
86-74-8	Carbazole	5.00	U	2.40	5.00	ug/L
84-74-2	Di-n-butylphthalate	5.00	U	2.80	5.00	ug/L
206-44-0	Fluoranthene	5.00	U	2.60	5.00	ug/L
129-00-0	Pyrene	5.00	U	1.90	5.00	ug/L
85-68-7	Butylbenzylphthalate	5.00	U	2.60	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	5.00	U	2.70	5.00	ug/L
56-55-3	Benzo(a)anthracene	5.00	U	2.20	5.00	ug/L
218-01-9	Chrysene	5.00	U	2.30	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	5.00	U	2.80	5.00	ug/L
117-84-0	Di-n-octyl phthalate	10.0	U	3.70	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	5.00	U	2.00	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	5.00	U	2.00	5.00	ug/L
50-32-8	Benzo(a)pyrene	5.00	U	2.00	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	2.60	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.00	U	2.30	5.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/24/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/24/21
Client Sample ID:	MW-102S	SDG No.:	M1770
Lab Sample ID:	M1770-22	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF123491.D	1	03/25/21 08:35	03/26/21 17:50	PB135347

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	5.00	U	2.00	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	5.00	U	2.10	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	5.00	U	2.00	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	60.3		10 - 139	40%	SPK: 150
13127-88-3	Phenol-d6	36.0		10 - 134	24%	SPK: 150
4165-60-0	Nitrobenzene-d5	91.6		49 - 133	92%	SPK: 100
321-60-8	2-Fluorobiphenyl	76.2		52 - 132	76%	SPK: 100
118-79-6	2,4,6-Tribromophenol	129		45 - 141	86%	SPK: 150
1718-51-0	Terphenyl-d14	81.6		45 - 142	82%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	255000	6.898			
1146-65-2	Naphthalene-d8	950000	8.186			
15067-26-2	Acenaphthene-d10	529000	9.945			
1517-22-2	Phenanthrene-d10	937000	11.433			
1719-03-5	Chrysene-d12	619000	14.08			
1520-96-3	Perylene-d12	471000	15.574			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/24/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/24/21
Client Sample ID:	MW-102I	SDG No.:	M1770
Lab Sample ID:	M1770-23	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF123492.D	1	03/25/21 08:35	03/26/21 18:23	PB135347

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.0	U	3.60	10.0	ug/L
108-95-2	Phenol	5.00	U	1.50	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	5.00	U	1.40	5.00	ug/L
95-57-8	2-Chlorophenol	5.00	U	1.40	5.00	ug/L
95-48-7	2-Methylphenol	5.00	U	1.90	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	5.00	U	1.60	5.00	ug/L
98-86-2	Acetophenone	5.00	U	1.90	5.00	ug/L
65794-96-9	3+4-Methylphenols	10.0	U	3.90	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	5.00	U	1.70	5.00	ug/L
67-72-1	Hexachloroethane	5.00	U	1.60	5.00	ug/L
98-95-3	Nitrobenzene	5.00	U	1.60	5.00	ug/L
78-59-1	Isophorone	5.00	U	2.00	5.00	ug/L
88-75-5	2-Nitrophenol	5.00	U	1.90	5.00	ug/L
105-67-9	2,4-Dimethylphenol	5.00	U	2.30	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	5.00	U	2.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	5.00	U	1.90	5.00	ug/L
91-20-3	Naphthalene	5.00	U	1.90	5.00	ug/L
106-47-8	4-Chloroaniline	5.00	U	2.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	5.00	U	1.90	5.00	ug/L
105-60-2	Caprolactam	10.0	U	2.60	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	5.00	U	1.90	5.00	ug/L
91-57-6	2-Methylnaphthalene	5.00	U	2.20	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	10.0	U	4.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	5.00	U	1.70	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	5.00	U	1.80	5.00	ug/L
92-52-4	1,1-Biphenyl	5.00	U	2.20	5.00	ug/L
91-58-7	2-Chloronaphthalene	5.00	U	1.90	5.00	ug/L
88-74-4	2-Nitroaniline	5.00	U	1.70	5.00	ug/L
131-11-3	Dimethylphthalate	2.40	J	1.80	5.00	ug/L
208-96-8	Acenaphthylene	5.00	U	2.10	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	5.00	U	1.80	5.00	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/24/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/24/21
Client Sample ID:	MW-102I	SDG No.:	M1770
Lab Sample ID:	M1770-23	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF123492.D	1	03/25/21 08:35	03/26/21 18:23	PB135347

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	5.00	U	2.20	5.00	ug/L
83-32-9	Acenaphthene	5.00	U	2.30	5.00	ug/L
51-28-5	2,4-Dinitrophenol	10.0	U	5.40	10.0	ug/L
100-02-7	4-Nitrophenol	10.0	U	3.70	10.0	ug/L
132-64-9	Dibenzofuran	5.00	U	2.20	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	5.00	U	2.10	5.00	ug/L
84-66-2	Diethylphthalate	5.00	U	2.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	5.00	U	2.40	5.00	ug/L
86-73-7	Fluorene	5.00	U	2.20	5.00	ug/L
100-01-6	4-Nitroaniline	5.00	U	2.50	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.0	U	2.80	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	5.00	U	2.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	5.00	U	2.10	5.00	ug/L
118-74-1	Hexachlorobenzene	5.00	U	2.10	5.00	ug/L
1912-24-9	Atrazine	5.00	U	2.80	5.00	ug/L
87-86-5	Pentachlorophenol	10.0	U	2.20	10.0	ug/L
85-01-8	Phenanthrene	5.00	U	2.20	5.00	ug/L
120-12-7	Anthracene	5.00	U	2.30	5.00	ug/L
86-74-8	Carbazole	5.00	U	2.40	5.00	ug/L
84-74-2	Di-n-butylphthalate	5.00	U	2.80	5.00	ug/L
206-44-0	Fluoranthene	5.00	U	2.60	5.00	ug/L
129-00-0	Pyrene	5.00	U	1.90	5.00	ug/L
85-68-7	Butylbenzylphthalate	5.00	U	2.60	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	5.00	U	2.70	5.00	ug/L
56-55-3	Benzo(a)anthracene	5.00	U	2.20	5.00	ug/L
218-01-9	Chrysene	5.00	U	2.30	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	5.00	U	2.80	5.00	ug/L
117-84-0	Di-n-octyl phthalate	10.0	U	3.70	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	5.00	U	2.00	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	5.00	U	2.00	5.00	ug/L
50-32-8	Benzo(a)pyrene	5.00	U	2.00	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	2.60	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.00	U	2.30	5.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/24/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/24/21
Client Sample ID:	MW-102I	SDG No.:	M1770
Lab Sample ID:	M1770-23	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF123492.D	1	03/25/21 08:35	03/26/21 18:23	PB135347

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	5.00	U	2.00	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	5.00	U	2.10	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	5.00	U	2.00	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	68.0		10 - 139	45%	SPK: 150
13127-88-3	Phenol-d6	41.8		10 - 134	28%	SPK: 150
4165-60-0	Nitrobenzene-d5	93.6		49 - 133	94%	SPK: 100
321-60-8	2-Fluorobiphenyl	78.4		52 - 132	78%	SPK: 100
118-79-6	2,4,6-Tribromophenol	131		45 - 141	87%	SPK: 150
1718-51-0	Terphenyl-d14	81.8		45 - 142	82%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	255000	6.898			
1146-65-2	Naphthalene-d8	950000	8.181			
15067-26-2	Acenaphthene-d10	529000	9.939			
1517-22-2	Phenanthrene-d10	915000	11.433			
1719-03-5	Chrysene-d12	617000	14.08			
1520-96-3	Perylene-d12	496000	15.58			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/24/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/24/21
Client Sample ID:	MW-107I	SDG No.:	M1770
Lab Sample ID:	M1770-24	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF123493.D	1	03/25/21 08:35	03/26/21 18:56	PB135347

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.0	U	3.60	10.0	ug/L
108-95-2	Phenol	5.00	U	1.50	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	5.00	U	1.40	5.00	ug/L
95-57-8	2-Chlorophenol	5.00	U	1.40	5.00	ug/L
95-48-7	2-Methylphenol	5.00	U	1.90	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	5.00	U	1.60	5.00	ug/L
98-86-2	Acetophenone	5.00	U	1.90	5.00	ug/L
65794-96-9	3+4-Methylphenols	10.0	U	3.90	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	5.00	U	1.70	5.00	ug/L
67-72-1	Hexachloroethane	5.00	U	1.60	5.00	ug/L
98-95-3	Nitrobenzene	5.00	U	1.60	5.00	ug/L
78-59-1	Isophorone	5.00	U	2.00	5.00	ug/L
88-75-5	2-Nitrophenol	5.00	U	1.90	5.00	ug/L
105-67-9	2,4-Dimethylphenol	5.00	U	2.30	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	5.00	U	2.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	5.00	U	1.90	5.00	ug/L
91-20-3	Naphthalene	5.00	U	1.90	5.00	ug/L
106-47-8	4-Chloroaniline	5.00	U	2.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	5.00	U	1.90	5.00	ug/L
105-60-2	Caprolactam	10.0	U	2.60	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	5.00	U	1.90	5.00	ug/L
91-57-6	2-Methylnaphthalene	5.00	U	2.20	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	10.0	U	4.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	5.00	U	1.70	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	5.00	U	1.80	5.00	ug/L
92-52-4	1,1-Biphenyl	5.00	U	2.20	5.00	ug/L
91-58-7	2-Chloronaphthalene	5.00	U	1.90	5.00	ug/L
88-74-4	2-Nitroaniline	5.00	U	1.70	5.00	ug/L
131-11-3	Dimethylphthalate	5.00	U	1.80	5.00	ug/L
208-96-8	Acenaphthylene	5.00	U	2.10	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	5.00	U	1.80	5.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/24/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/24/21
Client Sample ID:	MW-107I	SDG No.:	M1770
Lab Sample ID:	M1770-24	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF123493.D	1	03/25/21 08:35	03/26/21 18:56	PB135347

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	5.00	U	2.20	5.00	ug/L
83-32-9	Acenaphthene	5.00	U	2.30	5.00	ug/L
51-28-5	2,4-Dinitrophenol	10.0	U	5.40	10.0	ug/L
100-02-7	4-Nitrophenol	10.0	U	3.70	10.0	ug/L
132-64-9	Dibenzofuran	5.00	U	2.20	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	5.00	U	2.10	5.00	ug/L
84-66-2	Diethylphthalate	5.00	U	2.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	5.00	U	2.40	5.00	ug/L
86-73-7	Fluorene	5.00	U	2.20	5.00	ug/L
100-01-6	4-Nitroaniline	5.00	U	2.50	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.0	U	2.80	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	5.00	U	2.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	5.00	U	2.10	5.00	ug/L
118-74-1	Hexachlorobenzene	5.00	U	2.10	5.00	ug/L
1912-24-9	Atrazine	5.00	U	2.80	5.00	ug/L
87-86-5	Pentachlorophenol	10.0	U	2.20	10.0	ug/L
85-01-8	Phenanthrene	5.00	U	2.20	5.00	ug/L
120-12-7	Anthracene	5.00	U	2.30	5.00	ug/L
86-74-8	Carbazole	5.00	U	2.40	5.00	ug/L
84-74-2	Di-n-butylphthalate	5.00	U	2.80	5.00	ug/L
206-44-0	Fluoranthene	5.00	U	2.60	5.00	ug/L
129-00-0	Pyrene	5.00	U	1.90	5.00	ug/L
85-68-7	Butylbenzylphthalate	5.00	U	2.60	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	5.00	U	2.70	5.00	ug/L
56-55-3	Benzo(a)anthracene	5.00	U	2.20	5.00	ug/L
218-01-9	Chrysene	5.00	U	2.30	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	5.00	U	2.80	5.00	ug/L
117-84-0	Di-n-octyl phthalate	10.0	U	3.70	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	5.00	U	2.00	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	5.00	U	2.00	5.00	ug/L
50-32-8	Benzo(a)pyrene	5.00	U	2.00	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	2.60	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.00	U	2.30	5.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/24/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/24/21
Client Sample ID:	MW-107I	SDG No.:	M1770
Lab Sample ID:	M1770-24	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF123493.D	1	03/25/21 08:35	03/26/21 18:56	PB135347

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	5.00	U	2.00	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	5.00	U	2.10	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	5.00	U	2.00	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	60.6		10 - 139	40%	SPK: 150
13127-88-3	Phenol-d6	36.2		10 - 134	24%	SPK: 150
4165-60-0	Nitrobenzene-d5	93.8		49 - 133	94%	SPK: 100
321-60-8	2-Fluorobiphenyl	78.0		52 - 132	78%	SPK: 100
118-79-6	2,4,6-Tribromophenol	132		45 - 141	88%	SPK: 150
1718-51-0	Terphenyl-d14	79.3		45 - 142	79%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	256000	6.898			
1146-65-2	Naphthalene-d8	944000	8.18			
15067-26-2	Acenaphthene-d10	530000	9.945			
1517-22-2	Phenanthrene-d10	928000	11.433			
1719-03-5	Chrysene-d12	616000	14.08			
1520-96-3	Perylene-d12	498000	15.574			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

QC SUMMARY

Surrogate Summary

SW-846

SDG No.: M1770

Client: TRC Companies, Inc.

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
M1770-02	MW-106I	2-Fluorophenol	150	63.2	42		10	139
		Phenol-d6	150	36.6	24		10	134
		Nitrobenzene-d5	100	93.5	93		49	133
		2-Fluorobiphenyl	100	80.0	80		52	132
		2,4,6-Tribromophenol	150	125	83		45	141
		Terphenyl-d14	100	96.0	96		45	142
M1770-03	MW-106S	2-Fluorophenol	150	72.8	49		10	139
		Phenol-d6	150	38.7	26		10	134
		Nitrobenzene-d5	100	90.3	90		49	133
		2-Fluorobiphenyl	100	94.4	94		52	132
		2,4,6-Tribromophenol	150	144	96		45	141
		Terphenyl-d14	100	91.3	91		45	142
M1770-04MS	MW-106SMS	2-Fluorophenol	150	86.2	57		10	139
		Phenol-d6	150	49.9	33		10	134
		Nitrobenzene-d5	100	91.0	91		49	133
		2-Fluorobiphenyl	100	90.4	90		52	132
		2,4,6-Tribromophenol	150	131	87		45	141
		Terphenyl-d14	100	88.3	88		45	142
M1770-05MSD	MW-106SMSD	2-Fluorophenol	150	87.1	58		10	139
		Phenol-d6	150	50.9	34		10	134
		Nitrobenzene-d5	100	90.9	91		49	133
		2-Fluorobiphenyl	100	94.9	95		52	132
		2,4,6-Tribromophenol	150	138	92		45	141
		Terphenyl-d14	100	89.1	89		45	142
M1770-06	MW-105D	2-Fluorophenol	150	69.6	46		10	139
		Phenol-d6	150	41.5	28		10	134
		Nitrobenzene-d5	100	95.0	95		49	133
		2-Fluorobiphenyl	100	79.2	79		52	132
		2,4,6-Tribromophenol	150	123	82		45	141
		Terphenyl-d14	100	91.0	91		45	142
M1770-07	MW-105I	2-Fluorophenol	150	68.2	45		10	139
		Phenol-d6	150	40.0	27		10	134
		Nitrobenzene-d5	100	98.2	98		49	133
		2-Fluorobiphenyl	100	82.3	82		52	132
		2,4,6-Tribromophenol	150	130	86		45	141
		Terphenyl-d14	100	92.5	93		45	142
M1770-08	MW-105S	2-Fluorophenol	150	66.1	44		10	139
		Phenol-d6	150	38.5	26		10	134
		Nitrobenzene-d5	100	96.4	96		49	133
		2-Fluorobiphenyl	100	82.6	83		52	132
		2,4,6-Tribromophenol	150	128	85		45	141
		Terphenyl-d14	100	91.1	91		45	142
PB135304BL	PB135304BL	2-Fluorophenol	150	150	100		10	139
		Phenol-d6	150	135	90		10	134
		Nitrobenzene-d5	100	91.6	92		49	133
		2-Fluorobiphenyl	100	93.4	93		52	132
		2,4,6-Tribromophenol	150	138	92		45	141
		Terphenyl-d14	100	91.5	92		45	142
PB135304BS	PB135304BS	2-Fluorophenol	150	116	77		10	139
		Phenol-d6	150	114	76		10	134
		Nitrobenzene-d5	100	55.7	56		49	133
		2-Fluorobiphenyl	100	57.7	58		52	132

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Surrogate Summary

SW-846

SDG No.: M1770

Client: TRC Companies, Inc.

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB135304BS	PB135304BS	2,4,6-Tribromophenol	150	104	69		45	141
		Terphenyl-d14	100	53.8	54		45	142

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Surrogate Summary

SW-846

SDG No.: M1770

Client: TRC Companies, Inc.

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
M1770-10	MW-106D	2-Fluorophenol	150	56.0	37		10	139
		Phenol-d6	150	31.5	21		10	134
		Nitrobenzene-d5	100	83.3	83		49	133
		2-Fluorobiphenyl	100	89.5	89		52	132
		2,4,6-Tribromophenol	150	128	86		45	141
		Terphenyl-d14	100	78.4	78		45	142
M1770-11	MW-104D	2-Fluorophenol	150	64.0	43		10	139
		Phenol-d6	150	44.9	30		10	134
		Nitrobenzene-d5	100	94.7	95		49	133
		2-Fluorobiphenyl	100	78.8	79		52	132
		2,4,6-Tribromophenol	150	135	90		45	141
		Terphenyl-d14	100	83.5	84		45	142
M1770-12	MW-104I	2-Fluorophenol	150	57.4	38		10	139
		Phenol-d6	150	32.9	22		10	134
		Nitrobenzene-d5	100	94.4	94		49	133
		2-Fluorobiphenyl	100	79.3	79		52	132
		2,4,6-Tribromophenol	150	132	88		45	141
		Terphenyl-d14	100	88.7	89		45	142
M1770-13	MW-103D	2-Fluorophenol	150	64.5	43		10	139
		Phenol-d6	150	52.1	35		10	134
		Nitrobenzene-d5	100	92.7	93		49	133
		2-Fluorobiphenyl	100	79.6	80		52	132
		2,4,6-Tribromophenol	150	134	89		45	141
		Terphenyl-d14	100	88.5	89		45	142
M1770-14	MW-103I	2-Fluorophenol	150	55.9	37		10	139
		Phenol-d6	150	34.0	23		10	134
		Nitrobenzene-d5	100	88.2	88		49	133
		2-Fluorobiphenyl	100	74.6	75		52	132
		2,4,6-Tribromophenol	150	128	85		45	141
		Terphenyl-d14	100	78.5	79		45	142
M1770-15	MW-101S	2-Fluorophenol	150	59.3	40		10	139
		Phenol-d6	150	34.5	23		10	134
		Nitrobenzene-d5	100	97.2	97		49	133
		2-Fluorobiphenyl	100	82.1	82		52	132
		2,4,6-Tribromophenol	150	138	92		45	141
		Terphenyl-d14	100	83.6	84		45	142
M1770-16	MW-101I	2-Fluorophenol	150	55.9	37		10	139
		Phenol-d6	150	35.0	23		10	134
		Nitrobenzene-d5	100	91.7	92		49	133
		2-Fluorobiphenyl	100	78.1	78		52	132
		2,4,6-Tribromophenol	150	128	85		45	141
		Terphenyl-d14	100	86.9	87		45	142
M1770-17	MW-101D	2-Fluorophenol	150	65.5	44		10	139
		Phenol-d6	150	35.7	24		10	134
		Nitrobenzene-d5	100	97.8	98		49	133
		2-Fluorobiphenyl	100	97.7	98		52	132
		2,4,6-Tribromophenol	150	156	104		45	141
		Terphenyl-d14	100	87.5	87		45	142
M1770-18	FB-03232021	2-Fluorophenol	150	61.0	41		10	139
		Phenol-d6	150	33.1	22		10	134
		Nitrobenzene-d5	100	93.7	94		49	133
		2-Fluorobiphenyl	100	92.8	93		52	132

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Surrogate Summary

SW-846

SDG No.: M1770

Client: TRC Companies, Inc.

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	High
M1770-18	FB-03232021	2,4,6-Tribromophenol	150	158	105		45	141
		Terphenyl-d14	100	86.8	87		45	142
M1770-20	MW-103S	2-Fluorophenol	150	60.4	40		10	139
		Phenol-d6	150	34.4	23		10	134
		Nitrobenzene-d5	100	83.2	83		49	133
		2-Fluorobiphenyl	100	76.7	77		52	132
		2,4,6-Tribromophenol	150	131	87		45	141
		Terphenyl-d14	100	62.3	62		45	142
M1770-21	MW-102D	2-Fluorophenol	150	20.6	14		10	139
		Phenol-d6	150	11.7	8	*	10	134
		Nitrobenzene-d5	100	24.7	25	*	49	133
		2-Fluorobiphenyl	100	27.7	28	*	52	132
		2,4,6-Tribromophenol	150	48.5	32	*	45	141
		Terphenyl-d14	100	25.5	25	*	45	142
M1770-21RE	MW-102DRE	2-Fluorophenol	150	20.6	14		10	139
		Phenol-d6	150	11.9	8	*	10	134
		Nitrobenzene-d5	100	26.6	27	*	49	133
		2-Fluorobiphenyl	100	27.0	27	*	52	132
		2,4,6-Tribromophenol	150	39.3	26	*	45	141
		Terphenyl-d14	100	24.1	24	*	45	142
M1770-22	MW-102S	2-Fluorophenol	150	60.3	40		10	139
		Phenol-d6	150	36.0	24		10	134
		Nitrobenzene-d5	100	91.6	92		49	133
		2-Fluorobiphenyl	100	76.2	76		52	132
		2,4,6-Tribromophenol	150	129	86		45	141
		Terphenyl-d14	100	81.6	82		45	142
M1770-23	MW-102I	2-Fluorophenol	150	68.0	45		10	139
		Phenol-d6	150	41.8	28		10	134
		Nitrobenzene-d5	100	93.6	94		49	133
		2-Fluorobiphenyl	100	78.4	78		52	132
		2,4,6-Tribromophenol	150	131	87		45	141
		Terphenyl-d14	100	81.8	82		45	142
M1770-24	MW-107I	2-Fluorophenol	150	60.6	40		10	139
		Phenol-d6	150	36.2	24		10	134
		Nitrobenzene-d5	100	93.8	94		49	133
		2-Fluorobiphenyl	100	78.0	78		52	132
		2,4,6-Tribromophenol	150	132	88		45	141
		Terphenyl-d14	100	79.3	79		45	142
PB135347BL	PB135347BL	2-Fluorophenol	150	117	78		10	139
		Phenol-d6	150	111	74		10	134
		Nitrobenzene-d5	100	87.9	88		49	133
		2-Fluorobiphenyl	100	74.3	74		52	132
		2,4,6-Tribromophenol	150	120	80		45	141
		Terphenyl-d14	100	70.3	70		45	142
PB135347BS	PB135347BS	2-Fluorophenol	150	99.9	67		10	139
		Phenol-d6	150	98.4	66		10	134
		Nitrobenzene-d5	100	62.6	63		49	133
		2-Fluorobiphenyl	100	57.2	57		52	132
		2,4,6-Tribromophenol	150	106	71		45	141
		Terphenyl-d14	100	51.7	52		45	142
PB135347BSD	PB135347BSD	2-Fluorophenol	150	100	67		10	139
		Phenol-d6	150	97.8	65		10	134

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Surrogate Summary

SW-846

SDG No.: M1770

Client: TRC Companies, Inc.

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB135347BSD	PB135347BSD	Nitrobenzene-d5	100	63.2	63		49	133
		2-Fluorobiphenyl	100	57.0	57		52	132
		2,4,6-Tribromophenol	150	105	70		45	141
		Terphenyl-d14	100	51.8	52		45	142

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: M1770

Client: TRC Companies, Inc.

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: M1770-04MS		**Client Sample ID: MW-106SMS**						**DataFile: BG048490.D**			
Benzaldehyde	50	0	75.8	ug/L	152	*			10	137	
Phenol	50	2.10	21.6	ug/L	39				10	130	
bis(2-Chloroethyl)ether	50	0	52.0	ug/L	104				29	141	
2-Chlorophenol	50	0	51.2	ug/L	102				23	127	
2-Methylphenol	50	0	44.9	ug/L	90				43	134	
2,2-oxybis(1-Chloropropane)	50	0	47.9	ug/L	96				36	141	
Acetophenone	50	0	49.3	ug/L	99				31	164	
3+4-Methylphenols	50	0	40.6	ug/L	81				37	137	
N-Nitroso-di-n-propylamine	50	0	49.3	ug/L	99				36	147	
Hexachloroethane	50	0	47.2	ug/L	94				50	127	
Nitrobenzene	50	0	44.1	ug/L	88				59	129	
Isophorone	50	0	45.1	ug/L	90				39	146	
2-Nitrophenol	50	0	47.0	ug/L	94				30	148	
2,4-Dimethylphenol	50	0	52.9	ug/L	106				17	143	
bis(2-Chloroethoxy)methane	50	0	52.8	ug/L	106				39	143	
2,4-Dichlorophenol	50	0	49.2	ug/L	98				22	146	
Naphthalene	50	0	45.5	ug/L	91				17	157	
4-Chloroaniline	50	0	10.5	ug/L	21				10	95	
Hexachlorobutadiene	50	0	37.2	ug/L	74				52	125	
Caprolactam	50	0	8.90	ug/L	18				10	130	
4-Chloro-3-methylphenol	50	0	48.6	ug/L	97				17	148	
2-Methylnaphthalene	50	0	47.4	ug/L	95				38	146	
Hexachlorocyclopentadiene	100	0	88.3	ug/L	88				20	153	
2,4,6-Trichlorophenol	50	0	46.4	ug/L	93				52	141	
2,4,5-Trichlorophenol	50	0	45.4	ug/L	91				50	135	
1,1-Biphenyl	50	0	50.7	ug/L	101				38	154	
2-Chloronaphthalene	50	0	48.6	ug/L	97				41	145	
2-Nitroaniline	50	0	51.7	ug/L	103				39	151	
Dimethylphthalate	50	0	47.2	ug/L	94				42	147	
Acenaphthylene	50	0	50.3	ug/L	101				40	141	
2,6-Dinitrotoluene	50	0	46.9	ug/L	94				43	148	
3-Nitroaniline	50	0	13.0	ug/L	26				10	111	
Acenaphthene	50	0	55.2	ug/L	110				37	146	
2,4-Dinitrophenol	100	0	88.5	ug/L	89				14	167	
4-Nitrophenol	100	0	41.1	ug/L	41				10	130	
Dibenzofuran	50	0	46.4	ug/L	93				41	145	
2,4-Dinitrotoluene	50	0	46.1	ug/L	92				56	142	
Diethylphthalate	50	0	49.4	ug/L	99				41	148	
4-Chlorophenyl-phenylether	50	0	44.3	ug/L	89				38	149	
Fluorene	50	0	44.8	ug/L	90				39	144	
4-Nitroaniline	50	0	42.1	ug/L	84				27	138	
4,6-Dinitro-2-methylphenol	50	0	49.6	ug/L	99				32	175	
N-Nitrosodiphenylamine	50	0	53.2	ug/L	106				40	150	
4-Bromophenyl-phenylether	50	0	50.3	ug/L	101				42	151	
Hexachlorobenzene	50	0	49.9	ug/L	100				60	129	
Atrazine	50	0	53.9	ug/L	108				20	162	
Pentachlorophenol	100	0	94.0	ug/L	94				35	147	

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: M1770

Client: TRC Companies, Inc.

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Phenanthrene	50	0	50.7	ug/L	101				40	147	
Anthracene	50	0	52.0	ug/L	104				41	146	
Carbazole	50	0	48.8	ug/L	98				37	154	
Di-n-butylphthalate	50	0	53.5	ug/L	107				40	151	
Fluoranthene	50	0	44.8	ug/L	90				42	146	
Pyrene	50	0	50.4	ug/L	101				41	149	
Butylbenzylphthalate	50	0	58.1	ug/L	116				39	155	
3,3-Dichlorobenzidine	50	0	14.6	ug/L	29				10	114	
Benzo(a)anthracene	50	0	49.2	ug/L	98				41	147	
Chrysene	50	0	48.0	ug/L	96				44	144	
bis(2-Ethylhexyl)phthalate	50	0	58.9	ug/L	118				33	160	
Di-n-octyl phthalate	50	0	59.4	ug/L	119				36	158	
Benzo(b)fluoranthene	50	0	47.5	ug/L	95				40	150	
Benzo(k)fluoranthene	50	0	47.5	ug/L	95				40	147	
Benzo(a)pyrene	50	0	45.9	ug/L	92				42	147	
Indeno(1,2,3-cd)pyrene	50	0	50.2	ug/L	100				30	166	
Dibenz(a,h)anthracene	50	0	48.5	ug/L	97				23	172	
Benzo(g,h,i)perylene	50	0	49.4	ug/L	99				27	167	
1,2,4,5-Tetrachlorobenzene	50	0	43.9	ug/L	88	*			89	102	
2,3,4,6-Tetrachlorophenol	50	0	42.0	ug/L	84	*			91	111	

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: M1770

Client: TRC Companies, Inc.

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID: M1770-05MSD		**Client Sample ID: MW-106SMSD**						**DataFile: BG048491.D**			
Benzaldehyde	50	0	79.4	ug/L	159	*	5		10	137	20
Phenol	50	2.10	21.6	ug/L	39		0		10	130	20
bis(2-Chloroethyl)ether	50	0	53.8	ug/L	108		4		29	141	20
2-Chlorophenol	50	0	53.2	ug/L	106		4		23	127	20
2-Methylphenol	50	0	45.5	ug/L	91		1		43	134	20
2,2-oxybis(1-Chloropropane)	50	0	49.9	ug/L	100		4		36	141	20
Acetophenone	50	0	49.0	ug/L	98		1		31	164	20
3+4-Methylphenols	50	0	41.7	ug/L	83		2		37	137	20
N-Nitroso-di-n-propylamine	50	0	50.3	ug/L	101		2		36	147	20
Hexachloroethane	50	0	46.9	ug/L	94		0		50	127	20
Nitrobenzene	50	0	44.3	ug/L	89		1		59	129	20
Isophorone	50	0	45.4	ug/L	91		1		39	146	20
2-Nitrophenol	50	0	49.4	ug/L	99		5		30	148	20
2,4-Dimethylphenol	50	0	52.8	ug/L	106		0		17	143	20
bis(2-Chloroethoxy)methane	50	0	52.8	ug/L	106		0		39	143	20
2,4-Dichlorophenol	50	0	50.1	ug/L	100		2		22	146	20
Naphthalene	50	0	46.3	ug/L	93		2		17	157	20
4-Chloroaniline	50	0	11.0	ug/L	22		5		10	95	20
Hexachlorobutadiene	50	0	37.4	ug/L	75		1		52	125	20
Caprolactam	50	0	8.40	ug/L	17		6		10	130	20
4-Chloro-3-methylphenol	50	0	48.1	ug/L	96		1		17	148	20
2-Methylnaphthalene	50	0	48.0	ug/L	96		1		38	146	20
Hexachlorocyclopentadiene	100	0	86.4	ug/L	86		2		20	153	20
2,4,6-Trichlorophenol	50	0	48.0	ug/L	96		3		52	141	20
2,4,5-Trichlorophenol	50	0	47.0	ug/L	94		3		50	135	20
1,1-Biphenyl	50	0	52.5	ug/L	105		4		38	154	20
2-Chloronaphthalene	50	0	50.2	ug/L	100		3		41	145	20
2-Nitroaniline	50	0	53.1	ug/L	106		3		39	151	20
Dimethylphthalate	50	0	48.6	ug/L	97		3		42	147	20
Acenaphthylene	50	0	51.7	ug/L	103		2		40	141	20
2,6-Dinitrotoluene	50	0	47.6	ug/L	95		1		43	148	20
3-Nitroaniline	50	0	12.9	ug/L	26		0		10	111	20
Acenaphthene	50	0	56.6	ug/L	113		3		37	146	20
2,4-Dinitrophenol	100	0	90.8	ug/L	91		2		14	167	20
4-Nitrophenol	100	0	42.3	ug/L	42		2		10	130	20
Dibenzofuran	50	0	47.9	ug/L	96		3		41	145	20
2,4-Dinitrotoluene	50	0	47.7	ug/L	95		3		56	142	20
Diethylphthalate	50	0	51.3	ug/L	103		4		41	148	20
4-Chlorophenyl-phenylether	50	0	45.6	ug/L	91		2		38	149	20
Fluorene	50	0	46.3	ug/L	93		3		39	144	20
4-Nitroaniline	50	0	44.0	ug/L	88		5		27	138	20
4,6-Dinitro-2-methylphenol	50	0	49.0	ug/L	98		1		32	175	20
N-Nitrosodiphenylamine	50	0	53.7	ug/L	107		1		40	150	20
4-Bromophenyl-phenylether	50	0	49.5	ug/L	99		2		42	151	20
Hexachlorobenzene	50	0	50.8	ug/L	102		2		60	129	20
Atrazine	50	0	53.6	ug/L	107		1		20	162	20
Pentachlorophenol	100	0	95.5	ug/L	96		2		35	147	20

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: M1770

Client: TRC Companies, Inc.

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Phenanthrene	50	0	51.4	ug/L	103		2		40	147	20
Anthracene	50	0	52.9	ug/L	106		2		41	146	20
Carbazole	50	0	49.7	ug/L	99		1		37	154	20
Di-n-butylphthalate	50	0	54.1	ug/L	108		1		40	151	20
Fluoranthene	50	0	45.2	ug/L	90		0		42	146	20
Pyrene	50	0	50.3	ug/L	101		0		41	149	20
Butylbenzylphthalate	50	0	59.3	ug/L	119		3		39	155	20
3,3-Dichlorobenzidine	50	0	15.3	ug/L	31		7		10	114	20
Benzo(a)anthracene	50	0	49.4	ug/L	99		1		41	147	20
Chrysene	50	0	48.3	ug/L	97		1		44	144	20
bis(2-Ethylhexyl)phthalate	50	0	59.0	ug/L	118		0		33	160	20
Di-n-octyl phthalate	50	0	60.1	ug/L	120		1		36	158	20
Benzo(b)fluoranthene	50	0	47.4	ug/L	95		0		40	150	20
Benzo(k)fluoranthene	50	0	47.0	ug/L	94		1		40	147	20
Benzo(a)pyrene	50	0	45.9	ug/L	92		0		42	147	20
Indeno(1,2,3-cd)pyrene	50	0	49.8	ug/L	100		0		30	166	20
Dibenz(a,h)anthracene	50	0	48.8	ug/L	98		1		23	172	20
Benzo(g,h,i)perylene	50	0	49.5	ug/L	99		0		27	167	20
1,2,4,5-Tetrachlorobenzene	50	0	46.1	ug/L	92		4		89	102	20
2,3,4,6-Tetrachlorophenol	50	0	43.8	ug/L	88	*	5		91	111	20

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: M1770

Client: TRC Companies, Inc.

Analytical Method: 8270E **DataFile:** BF123479.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB135347BS	Benzaldehyde	50	13.3	ug/L	27				14	110	
	Phenol	50	43.1	ug/L	86				66	118	
	bis(2-Chloroethyl)ether	50	40.5	ug/L	81				62	103	
	2-Chlorophenol	50	40.9	ug/L	82				70	117	
	2-Methylphenol	50	41.1	ug/L	82				56	113	
	2,2-oxybis(1-Chloropropane)	50	38.5	ug/L	77				52	103	
	Acetophenone	50	40.0	ug/L	80				60	104	
	3+4-Methylphenols	50	39.7	ug/L	79				55	115	
	N-Nitroso-di-n-propylamine	50	38.3	ug/L	77				57	107	
	Hexachloroethane	50	42.0	ug/L	84				60	105	
	Nitrobenzene	50	39.6	ug/L	79				58	106	
	Isophorone	50	36.8	ug/L	74				61	102	
	2-Nitrophenol	50	52.0	ug/L	104				70	115	
	2,4-Dimethylphenol	50	42.3	ug/L	85				67	130	
	bis(2-Chloroethoxy)methane	50	41.8	ug/L	84				58	109	
	2,4-Dichlorophenol	50	39.6	ug/L	79				66	115	
	Naphthalene	50	39.0	ug/L	78				64	107	
	4-Chloroaniline	50	24.1	ug/L	48				10	85	
	Hexachlorobutadiene	50	38.3	ug/L	77				56	102	
	Caprolactam	50	42.1	ug/L	84				63	116	
	4-Chloro-3-methylphenol	50	40.3	ug/L	81				65	114	
	2-Methylnaphthalene	50	38.8	ug/L	78				64	107	
	Hexachlorocyclopentadiene	100	89.8	ug/L	90				49	132	
	2,4,6-Trichlorophenol	50	39.9	ug/L	80				61	110	
	2,4,5-Trichlorophenol	50	41.0	ug/L	82				57	112	
	1,1-Biphenyl	50	41.0	ug/L	82				57	110	
	2-Chloronaphthalene	50	39.8	ug/L	80				59	106	
	2-Nitroaniline	50	47.6	ug/L	95				58	107	
	Dimethylphthalate	50	39.9	ug/L	80				64	103	
	Acenaphthylene	50	39.8	ug/L	80				65	108	
	2,6-Dinitrotoluene	50	43.2	ug/L	86				64	110	
	3-Nitroaniline	50	33.4	ug/L	67				28	100	
	Acenaphthene	50	44.2	ug/L	88				59	113	
	2,4-Dinitrophenol	100	93.1	ug/L	93				48	129	
	4-Nitrophenol	100	85.7	ug/L	86				54	119	
	Dibenzofuran	50	38.5	ug/L	77				65	106	
	2,4-Dinitrotoluene	50	47.3	ug/L	95				60	115	
	Diethylphthalate	50	39.5	ug/L	79				63	105	
	4-Chlorophenyl-phenylether	50	39.2	ug/L	78				61	104	
	Fluorene	50	39.6	ug/L	79				64	107	
	4-Nitroaniline	50	44.7	ug/L	89				57	103	
	4,6-Dinitro-2-methylphenol	50	46.1	ug/L	92				62	132	
	N-Nitrosodiphenylamine	50	38.0	ug/L	76				61	109	
	4-Bromophenyl-phenylether	50	39.1	ug/L	78				58	103	
	Hexachlorobenzene	50	40.2	ug/L	80				58	106	
	Atrazine	50	36.2	ug/L	72				66	117	

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: M1770

Client: TRC Companies, Inc.

Analytical Method: 8270E **DataFile:** BF123479.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB135347BS	Pentachlorophenol	100	77.1	ug/L	77				41	128	
	Phenanthrene	50	38.6	ug/L	77				62	109	
	Anthracene	50	39.8	ug/L	80				65	110	
	Carbazole	50	38.1	ug/L	76				62	106	
	Di-n-butylphthalate	50	38.4	ug/L	77				64	106	
	Fluoranthene	50	40.1	ug/L	80				64	110	
	Pyrene	50	37.0	ug/L	74				59	112	
	Butylbenzylphthalate	50	40.1	ug/L	80				61	105	
	3,3-Dichlorobenzidine	50	31.1	ug/L	62				30	96	
	Benzo(a)anthracene	50	38.4	ug/L	77				62	107	
	Chrysene	50	37.5	ug/L	75				61	108	
	bis(2-Ethylhexyl)phthalate	50	38.5	ug/L	77				59	110	
	Di-n-octyl phthalate	50	38.4	ug/L	77				55	116	
	Benzo(b)fluoranthene	50	40.8	ug/L	82				64	111	
	Benzo(k)fluoranthene	50	41.9	ug/L	84				64	113	
	Benzo(a)pyrene	50	39.8	ug/L	80				63	109	
	Indeno(1,2,3-cd)pyrene	50	40.7	ug/L	81				53	117	
	Dibenz(a,h)anthracene	50	39.6	ug/L	79				63	117	
	Benzo(g,h,i)perylene	50	40.6	ug/L	81				61	120	
	1,2,4,5-Tetrachlorobenzene	50	40.7	ug/L	81				54	109	
	2,3,4,6-Tetrachlorophenol	50	43.1	ug/L	86				63	116	

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: M1770

Client: TRC Companies, Inc.

Analytical Method: 8270E **DataFile:** BF123480.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB135347BSD	Benzaldehyde	50	13.2	ug/L	26	1			14	110	20
	Phenol	50	42.9	ug/L	86	0			66	118	20
	bis(2-Chloroethyl)ether	50	40.7	ug/L	81	0			62	103	20
	2-Chlorophenol	50	40.8	ug/L	82	0			70	117	20
	2-Methylphenol	50	41.4	ug/L	83	1			56	113	20
	2,2-oxybis(1-Chloropropane)	50	38.2	ug/L	76	1			52	103	20
	Acetophenone	50	39.9	ug/L	80	0			60	104	20
	3+4-Methylphenols	50	39.4	ug/L	79	1			55	115	20
	N-Nitroso-di-n-propylamine	50	38.1	ug/L	76	1			57	107	20
	Hexachloroethane	50	41.9	ug/L	84	0			60	105	20
	Nitrobenzene	50	40.4	ug/L	81	2			58	106	20
	Isophorone	50	37.0	ug/L	74	1			61	102	20
	2-Nitrophenol	50	51.8	ug/L	104	0			70	115	20
	2,4-Dimethylphenol	50	39.8	ug/L	80	6			67	130	20
	bis(2-Chloroethoxy)methane	50	42.3	ug/L	85	1			58	109	20
	2,4-Dichlorophenol	50	40.0	ug/L	80	1			66	115	20
	Naphthalene	50	39.2	ug/L	78	1			64	107	20
	4-Chloroaniline	50	23.6	ug/L	47	2			10	85	20
	Hexachlorobutadiene	50	38.6	ug/L	77	1			56	102	20
	Caprolactam	50	42.5	ug/L	85	1			63	116	20
	4-Chloro-3-methylphenol	50	40.3	ug/L	81	0			65	114	20
	2-Methylnaphthalene	50	39.2	ug/L	78	1			64	107	20
	Hexachlorocyclopentadiene	100	90.0	ug/L	90	0			49	132	20
	2,4,6-Trichlorophenol	50	39.8	ug/L	80	0			61	110	20
	2,4,5-Trichlorophenol	50	40.7	ug/L	81	1			57	112	20
	1,1-Biphenyl	50	40.5	ug/L	81	1			57	110	20
	2-Chloronaphthalene	50	39.5	ug/L	79	1			59	106	20
	2-Nitroaniline	50	47.1	ug/L	94	1			58	107	20
	Dimethylphthalate	50	39.8	ug/L	80	0			64	103	20
	Acenaphthylene	50	39.5	ug/L	79	1			65	108	20
	2,6-Dinitrotoluene	50	43.1	ug/L	86	0			64	110	20
	3-Nitroaniline	50	31.3	ug/L	63	6			28	100	20
	Acenaphthene	50	44.4	ug/L	89	0			59	113	20
	2,4-Dinitrophenol	100	92.9	ug/L	93	0			48	129	20
	4-Nitrophenol	100	87.5	ug/L	88	2			54	119	20
	Dibenzofuran	50	38.5	ug/L	77	0			65	106	20
	2,4-Dinitrotoluene	50	46.8	ug/L	94	1			60	115	20
	Diethylphthalate	50	39.3	ug/L	79	1			63	105	20
	4-Chlorophenyl-phenylether	50	39.3	ug/L	79	0			61	104	20
	Fluorene	50	39.3	ug/L	79	1			64	107	20
	4-Nitroaniline	50	44.3	ug/L	89	1			57	103	20
	4,6-Dinitro-2-methylphenol	50	45.3	ug/L	91	2			62	132	20
	N-Nitrosodiphenylamine	50	38.0	ug/L	76	0			61	109	20
	4-Bromophenyl-phenylether	50	39.5	ug/L	79	1			58	103	20
	Hexachlorobenzene	50	39.7	ug/L	79	1			58	106	20
	Atrazine	50	35.8	ug/L	72	1			66	117	20

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: M1770

Client: TRC Companies, Inc.

Analytical Method: 8270E **DataFile:** BF123480.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB135347BSD	Pentachlorophenol	100	77.9	ug/L	78	1			41	128	20
	Phenanthrene	50	38.7	ug/L	77	0			62	109	20
	Anthracene	50	39.4	ug/L	79	1			65	110	20
	Carbazole	50	38.1	ug/L	76	0			62	106	20
	Di-n-butylphthalate	50	38.4	ug/L	77	0			64	106	20
	Fluoranthene	50	40.3	ug/L	81	0			64	110	20
	Pyrene	50	37.1	ug/L	74	0			59	112	20
	Butylbenzylphthalate	50	40.3	ug/L	81	0			61	105	20
	3,3-Dichlorobenzidine	50	31.7	ug/L	63	2			30	96	20
	Benzo(a)anthracene	50	38.9	ug/L	78	1			62	107	20
	Chrysene	50	38.4	ug/L	77	2			61	108	20
	bis(2-Ethylhexyl)phthalate	50	39.3	ug/L	79	2			59	110	20
	Di-n-octyl phthalate	50	40.0	ug/L	80	4			55	116	20
	Benzo(b)fluoranthene	50	40.1	ug/L	80	2			64	111	20
	Benzo(k)fluoranthene	50	42.8	ug/L	86	2			64	113	20
	Benzo(a)pyrene	50	39.9	ug/L	80	0			63	109	20
	Indeno(1,2,3-cd)pyrene	50	41.6	ug/L	83	2			53	117	20
	Dibenz(a,h)anthracene	50	40.6	ug/L	81	2			63	117	20
	Benzo(g,h,i)perylene	50	41.8	ug/L	84	3			61	120	20
	1,2,4,5-Tetrachlorobenzene	50	39.8	ug/L	80	2			54	109	20
	2,3,4,6-Tetrachlorophenol	50	41.6	ug/L	83	4			63	116	20

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: M1770

Client: TRC Companies, Inc.

Analytical Method: 8270E **DataFile:** BG048487.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB135304BS	Benzaldehyde	50	7.70	ug/L	15				14	110	
	Phenol	50	45.7	ug/L	91				66	118	
	bis(2-Chloroethyl)ether	50	43.4	ug/L	87				62	103	
	2-Chlorophenol	50	46.0	ug/L	92				70	117	
	2-Methylphenol	50	48.3	ug/L	97				56	113	
	2,2-oxybis(1-Chloropropane)	50	40.5	ug/L	81				52	103	
	Acetophenone	50	40.0	ug/L	80				60	104	
	3+4-Methylphenols	50	48.2	ug/L	96				55	115	
	N-Nitroso-di-n-propylamine	50	40.8	ug/L	82				57	107	
	Hexachloroethane	50	42.0	ug/L	84				60	105	
	Nitrobenzene	50	37.2	ug/L	74				58	106	
	Isophorone	50	37.0	ug/L	74				61	102	
	2-Nitrophenol	50	38.6	ug/L	77				70	115	
	2,4-Dimethylphenol	50	47.0	ug/L	94				67	130	
	bis(2-Chloroethoxy)methane	50	44.4	ug/L	89				58	109	
	2,4-Dichlorophenol	50	42.2	ug/L	84				66	115	
	Naphthalene	50	39.5	ug/L	79				64	107	
	4-Chloroaniline	50	26.5	ug/L	53				10	85	
	Hexachlorobutadiene	50	31.3	ug/L	63				56	102	
	Caprolactam	50	42.9	ug/L	86				63	116	
	4-Chloro-3-methylphenol	50	43.5	ug/L	87				65	114	
	2-Methylnaphthalene	50	40.9	ug/L	82				64	107	
	Hexachlorocyclopentadiene	100	69.4	ug/L	69				49	132	
	2,4,6-Trichlorophenol	50	40.4	ug/L	81				61	110	
	2,4,5-Trichlorophenol	50	39.0	ug/L	78				57	112	
	1,1-Biphenyl	50	42.1	ug/L	84				57	110	
	2-Chloronaphthalene	50	40.9	ug/L	82				59	106	
	2-Nitroaniline	50	44.6	ug/L	89				58	107	
	Dimethylphthalate	50	40.9	ug/L	82				64	103	
	Acenaphthylene	50	40.5	ug/L	81				65	108	
	2,6-Dinitrotoluene	50	40.9	ug/L	82				64	110	
	3-Nitroaniline	50	30.1	ug/L	60				28	100	
	Acenaphthene	50	47.7	ug/L	95				59	113	
	2,4-Dinitrophenol	100	90.5	ug/L	91				48	129	
	4-Nitrophenol	100	82.3	ug/L	82				54	119	
	Dibenzofuran	50	40.7	ug/L	81				65	106	
	2,4-Dinitrotoluene	50	41.0	ug/L	82				60	115	
	Diethylphthalate	50	44.8	ug/L	90				63	105	
	4-Chlorophenyl-phenylether	50	39.5	ug/L	79				61	104	
	Fluorene	50	39.5	ug/L	79				64	107	
	4-Nitroaniline	50	38.9	ug/L	78				57	103	
	4,6-Dinitro-2-methylphenol	50	44.7	ug/L	89				62	132	
	N-Nitrosodiphenylamine	50	41.7	ug/L	83				61	109	
	4-Bromophenyl-phenylether	50	38.6	ug/L	77				58	103	
	Hexachlorobenzene	50	39.8	ug/L	80				58	106	
	Atrazine	50	35.5	ug/L	71				66	117	

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: M1770

Client: TRC Companies, Inc.

Analytical Method: 8270E **DataFile:** BG048487.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB135304BS	Pentachlorophenol	100	78.8	ug/L	79				41	128	
	Phenanthrene	50	41.1	ug/L	82				62	109	
	Anthracene	50	41.8	ug/L	84				65	110	
	Carbazole	50	40.9	ug/L	82				62	106	
	Di-n-butylphthalate	50	44.9	ug/L	90				64	106	
	Fluoranthene	50	38.9	ug/L	78				64	110	
	Pyrene	50	41.6	ug/L	83				59	112	
	Butylbenzylphthalate	50	46.2	ug/L	92				61	105	
	3,3-Dichlorobenzidine	50	33.9	ug/L	68				30	96	
	Benzo(a)anthracene	50	38.2	ug/L	76				62	107	
	Chrysene	50	38.4	ug/L	77				61	108	
	bis(2-Ethylhexyl)phthalate	50	47.5	ug/L	95				59	110	
	Di-n-octyl phthalate	50	48.3	ug/L	97				55	116	
	Benzo(b)fluoranthene	50	45.1	ug/L	90				64	111	
	Benzo(k)fluoranthene	50	45.6	ug/L	91				64	113	
	Benzo(a)pyrene	50	43.9	ug/L	88				63	109	
	Indeno(1,2,3-cd)pyrene	50	46.5	ug/L	93				53	117	
	Dibenz(a,h)anthracene	50	46.1	ug/L	92				63	117	
	Benzo(g,h,i)perylene	50	46.7	ug/L	93				61	120	
	1,2,4,5-Tetrachlorobenzene	50	35.7	ug/L	71				54	109	
	2,3,4,6-Tetrachlorophenol	50	37.2	ug/L	74				63	116	

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB135304BL

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: M1770 SAS No.: M1770 SDG NO.: M1770

Lab File ID: BG048486.D Lab Sample ID: PB135304BL

Instrument ID: BNA_G Date Extracted: 03/23/2021

Matrix: (soil/water) Water Date Analyzed: 03/24/2021

Level: (low/med) LOW Time Analyzed: 12:47

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB135304BS	PB135304BS	BG048487.D	03/24/2021
MW-106S	M1770-03	BG048489.D	03/24/2021
MW-106SMS	M1770-04MS	BG048490.D	03/24/2021
MW-106SMSD	M1770-05MSD	BG048491.D	03/24/2021
MW-106I	M1770-02	BF123444.D	03/24/2021
MW-105D	M1770-06	BF123440.D	03/24/2021
MW-105I	M1770-07	BF123439.D	03/24/2021
MW-105S	M1770-08	BF123443.D	03/24/2021

COMMENTS:

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB135347BL

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: M1770 SAS No.: M1770 SDG NO.: M1770

Lab File ID: BF123483.D Lab Sample ID: PB135347BL

Instrument ID: BNA_F Date Extracted: 03/25/2021

Matrix: (soil/water) Water Date Analyzed: 03/26/2021

Level: (low/med) LOW Time Analyzed: 13:16

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
MW-103D	M1770-13	BF123488.D	03/26/2021
MW-103I	M1770-14	BF123489.D	03/26/2021
MW-101S	M1770-15	BF123490.D	03/26/2021
MW-102S	M1770-22	BF123491.D	03/26/2021
MW-102I	M1770-23	BF123492.D	03/26/2021
MW-107I	M1770-24	BF123493.D	03/26/2021
MW-101I	M1770-16	BF123495.D	03/26/2021
PB135347BS	PB135347BS	BF123479.D	03/26/2021
PB135347BSD	PB135347BSD	BF123480.D	03/26/2021
MW-106D	M1770-10	BG048510.D	03/25/2021
MW-103S	M1770-20	BM029252.D	03/29/2021
MW-101D	M1770-17	BM029254.D	03/29/2021
FB-03232021	M1770-18	BM029255.D	03/29/2021
MW-102D	M1770-21	BP005126.D	03/31/2021
MW-104D	M1770-11	BF123486.D	03/26/2021
MW-104I	M1770-12	BF123487.D	03/26/2021

COMMENTS:

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM SAS No.: M1770 SDG NO.: M1770

Lab File ID: BF123397.D DFTPP Injection Date: 03/23/2021

Instrument ID: BNA_F DFTPP Injection Time: 10:57

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	55.8
68	Less than 2.0% of mass 69	0.7 (1.7) 1
69	Mass 69 relative abundance	39.9
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	49.3
197	Less than 2.0% of mass 198	0.6
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.5
275	10.0 - 60.0% of mass 198	26.6
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	12.8
442	Greater than 50% of mass 198	100.0
443	15.0 - 24.0% of mass 442	15.7 (19.1) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC005	SSTDICC005	BF123398.D	03/23/2021	11:46
SSTDICC010	SSTDICC010	BF123399.D	03/23/2021	12:18
SSTDICC020	SSTDICC020	BF123400.D	03/23/2021	12:50
SSTDICCC040	SSTDICCC040	BF123401.D	03/23/2021	13:22
SSTDICC050	SSTDICC050	BF123402.D	03/23/2021	13:54
SSTDICC060	SSTDICC060	BF123403.D	03/23/2021	14:26
SSTDICC080	SSTDICC080	BF123404.D	03/23/2021	14:59

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM SAS No.: M1770 SDG NO.: M1770

Lab File ID: BF123433.D DFTPP Injection Date: 03/24/2021

Instrument ID: BNA_F DFTPP Injection Time: 11:20

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	48.9
68	Less than 2.0% of mass 69	0.6 (1.5) 1
69	Mass 69 relative abundance	38.4
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	48.1
197	Less than 2.0% of mass 198	0.7
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	27.3
365	Greater than 1% of mass 198	3.7
441	Present, but less than mass 443	15.2
442	Greater than 50% of mass 198	99
443	15.0 - 24.0% of mass 442	18.8 (19) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF123434.D	03/24/2021	11:52
MW-105I	M1770-07	BF123439.D	03/24/2021	15:08
MW-105D	M1770-06	BF123440.D	03/24/2021	15:41
MW-105S	M1770-08	BF123443.D	03/24/2021	17:18
MW-106I	M1770-02	BF123444.D	03/24/2021	17:50

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM SAS No.: M1770 SDG NO.: M1770

Lab File ID: BF123476.D DFTPP Injection Date: 03/26/2021

Instrument ID: BNA_F DFTPP Injection Time: 09:16

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	48.9
68	Less than 2.0% of mass 69	0.6 (1.5) 1
69	Mass 69 relative abundance	38.1
70	Less than 2.0% of mass 69	0.1 (0.3) 1
127	10.0 - 80.0% of mass 198	49.1
197	Less than 2.0% of mass 198	0.7
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	27.3
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	15.1
442	Greater than 50% of mass 198	100.0
443	15.0 - 24.0% of mass 442	18.2 (19.1) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF123477.D	03/26/2021	09:48
PB135347BS	PB135347BS	BF123479.D	03/26/2021	11:04
PB135347BSD	PB135347BSD	BF123480.D	03/26/2021	11:36
PB135347BL	PB135347BL	BF123483.D	03/26/2021	13:16
MW-104D	M1770-11	BF123486.D	03/26/2021	15:01
MW-104I	M1770-12	BF123487.D	03/26/2021	15:35
MW-103D	M1770-13	BF123488.D	03/26/2021	16:08
MW-103I	M1770-14	BF123489.D	03/26/2021	16:42
MW-101S	M1770-15	BF123490.D	03/26/2021	17:16
MW-102S	M1770-22	BF123491.D	03/26/2021	17:50
MW-102I	M1770-23	BF123492.D	03/26/2021	18:23
MW-107I	M1770-24	BF123493.D	03/26/2021	18:56
MW-101I	M1770-16	BF123495.D	03/26/2021	20:02

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM SAS No.: M1770 SDG NO.: M1770

Lab File ID: BG048410.D DFTPP Injection Date: 03/18/2021

Instrument ID: BNA_G DFTPP Injection Time: 10:11

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	32.8
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	41.2
70	Less than 2.0% of mass 69	0.1 (0.3) 1
127	10.0 - 80.0% of mass 198	41.3
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	30
365	Greater than 1% of mass 198	4.1
441	Present, but less than mass 443	10.8
442	Greater than 50% of mass 198	65.2
443	15.0 - 24.0% of mass 442	12.8 (19.7) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC005	SSTDICC005	BG048412.D	03/18/2021	11:34
SSTDICC010	SSTDICC010	BG048413.D	03/18/2021	12:15
SSTDICC020	SSTDICC020	BG048414.D	03/18/2021	12:55
SSTDICCC040	SSTDICCC040	BG048415.D	03/18/2021	13:36
SSTDICC050	SSTDICC050	BG048416.D	03/18/2021	14:16
SSTDICC060	SSTDICC060	BG048417.D	03/18/2021	14:56
SSTDICC080	SSTDICC080	BG048418.D	03/18/2021	15:37

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM SAS No.: M1770 SDG NO.: M1770

Lab File ID: BG048484.D DFTPP Injection Date: 03/24/2021

Instrument ID: BNA_G DFTPP Injection Time: 10:00

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	39.4
68	Less than 2.0% of mass 69	0.5 (1.1) 1
69	Mass 69 relative abundance	44.9
70	Less than 2.0% of mass 69	0.3 (0.7) 1
127	10.0 - 80.0% of mass 198	47.5
197	Less than 2.0% of mass 198	0.5
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 60.0% of mass 198	30.5
365	Greater than 1% of mass 198	4.6
441	Present, but less than mass 443	13.2
442	Greater than 50% of mass 198	80.8
443	15.0 - 24.0% of mass 442	16.1 (19.9) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BG048485.D	03/24/2021	10:40
PB135304BL	PB135304BL	BG048486.D	03/24/2021	12:47
PB135304BS	PB135304BS	BG048487.D	03/24/2021	13:27
MW-106S	M1770-03	BG048489.D	03/24/2021	14:56
MW-106SMS	M1770-04MS	BG048490.D	03/24/2021	15:37
MW-106SMSD	M1770-05MSD	BG048491.D	03/24/2021	16:17

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM SAS No.: M1770 SDG NO.: M1770

Lab File ID: BG048494.D DFTPP Injection Date: 03/25/2021

Instrument ID: BNA_G DFTPP Injection Time: 09:23

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	36.9
68	Less than 2.0% of mass 69	0.4 (0.9) 1
69	Mass 69 relative abundance	45
70	Less than 2.0% of mass 69	0.3 (0.8) 1
127	10.0 - 80.0% of mass 198	48.9
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7
275	10.0 - 60.0% of mass 198	32.3
365	Greater than 1% of mass 198	4.3
441	Present, but less than mass 443	12.7
442	Greater than 50% of mass 198	79.7
443	15.0 - 24.0% of mass 442	15.9 (20) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BG048495.D	03/25/2021	10:03
MW-106D	M1770-10	BG048510.D	03/25/2021	20:27

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM SAS No.: M1770 SDG NO.: M1770

Lab File ID: BM029215.D DFTPP Injection Date: 03/25/2021

Instrument ID: BNA_M DFTPP Injection Time: 10:25

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	50.5
68	Less than 2.0% of mass 69	0.6 (1.2) 1
69	Mass 69 relative abundance	53
70	Less than 2.0% of mass 69	0.3 (0.5) 1
127	10.0 - 80.0% of mass 198	54.4
197	Less than 2.0% of mass 198	0.6
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	25.2
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	10.1
442	Greater than 50% of mass 198	100.0
443	15.0 - 24.0% of mass 442	12.3 (19.4) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC005	SSTDICC005	BM029216.D	03/25/2021	11:01
SSTDICC010	SSTDICC010	BM029217.D	03/25/2021	11:38
SSTDICC020	SSTDICC020	BM029218.D	03/25/2021	12:15
SSTDICCC040	SSTDICCC040	BM029219.D	03/25/2021	12:56
SSTDICC050	SSTDICC050	BM029220.D	03/25/2021	13:33
SSTDICC060	SSTDICC060	BM029221.D	03/25/2021	14:10
SSTDICC080	SSTDICC080	BM029222.D	03/25/2021	14:46

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM SAS No.: M1770 SDG NO.: M1770

Lab File ID: BM029249.D DFTPP Injection Date: 03/29/2021

Instrument ID: BNA_M DFTPP Injection Time: 17:54

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	56.4
68	Less than 2.0% of mass 69	1.1 (1.9) 1
69	Mass 69 relative abundance	57.7
70	Less than 2.0% of mass 69	0.3 (0.6) 1
127	10.0 - 80.0% of mass 198	57.1
197	Less than 2.0% of mass 198	0.5
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 60.0% of mass 198	25.1
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	9.3
442	Greater than 50% of mass 198	100.0
443	15.0 - 24.0% of mass 442	12.5 (19.1) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BM029250.D	03/29/2021	18:31
MW-103S	M1770-20	BM029252.D	03/29/2021	19:56
MW-101D	M1770-17	BM029254.D	03/29/2021	21:08
FB-03232021	M1770-18	BM029255.D	03/29/2021	21:45

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM SAS No.: M1770 SDG NO.: M1770

Lab File ID: BP005020.D DFTPP Injection Date: 03/23/2021

Instrument ID: BNA_P DFTPP Injection Time: 12:25

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	34.5
68	Less than 2.0% of mass 69	0.4 (0.9) 1
69	Mass 69 relative abundance	47.9
70	Less than 2.0% of mass 69	0.3 (0.7) 1
127	10.0 - 80.0% of mass 198	45
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7.1
275	10.0 - 60.0% of mass 198	28.9
365	Greater than 1% of mass 198	3.1
441	Present, but less than mass 443	10.8
442	Greater than 50% of mass 198	100.0
443	15.0 - 24.0% of mass 442	14.3 (19.9) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC005	SSTDICC005	BP005021.D	03/23/2021	12:59
SSTDICC010	SSTDICC010	BP005022.D	03/23/2021	13:33
SSTDICC020	SSTDICC020	BP005023.D	03/23/2021	14:07
SSTDICCC040	SSTDICCC040	BP005024.D	03/23/2021	14:41
SSTDICC050	SSTDICC050	BP005025.D	03/23/2021	15:15
SSTDICC060	SSTDICC060	BP005026.D	03/23/2021	15:49
SSTDICC080	SSTDICC080	BP005027.D	03/23/2021	16:23

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM SAS No.: M1770 SDG NO.: M1770

Lab File ID: BP005116.D DFTPP Injection Date: 03/31/2021

Instrument ID: BNA_P DFTPP Injection Time: 09:00

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	29.7
68	Less than 2.0% of mass 69	0.7 (1.5) 1
69	Mass 69 relative abundance	42.7
70	Less than 2.0% of mass 69	0.3 (0.6) 1
127	10.0 - 80.0% of mass 198	43.8
197	Less than 2.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7.5
275	10.0 - 60.0% of mass 198	30.8
365	Greater than 1% of mass 198	3.2
441	Present, but less than mass 443	14.4
442	Greater than 50% of mass 198	86.5
443	15.0 - 24.0% of mass 442	16.7 (19.3) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BP005117.D	03/31/2021	09:33
MW-102D	M1770-21	BP005126.D	03/31/2021	15:03

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM SAS No.: M1770 SDG NO.: M1770

Lab File ID: BP005129.D DFTPP Injection Date: 04/01/2021

Instrument ID: BNA_P DFTPP Injection Time: 10:28

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	29.3
68	Less than 2.0% of mass 69	0.2 (0.5) 1
69	Mass 69 relative abundance	40.7
70	Less than 2.0% of mass 69	0.3 (0.8) 1
127	10.0 - 80.0% of mass 198	43.7
197	Less than 2.0% of mass 198	0.4
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	27.5
365	Greater than 1% of mass 198	3
441	Present, but less than mass 443	12.6
442	Greater than 50% of mass 198	100.0
443	15.0 - 24.0% of mass 442	15.7 (19.4) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BP005130.D	04/01/2021	11:40
MW-102DRE	M1770-21RE	BP005139.D	04/01/2021	16:51

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: M1770 SAS No.: M1770 SDG NO.: M1770

EPA Sample No.: SSTDCCC040 Date Analyzed: 03/24/2021

Lab File ID: BF123434.D Time Analyzed: 11:52

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	263403	6.916	983065	8.20	581665	9.96
	UPPER LIMIT	526806	7.416	1966130	8.698	1163330	10.463
	LOWER LIMIT	131702	6.416	491533	7.698	290833	9.463
	EPA SAMPLE NO.						
01	MW-105D	233949	6.92	884426	8.20	483618	9.96
02	MW-105I	234293	6.91	864582	8.20	468035	9.96
03	MW-105S	232412	6.91	856152	8.20	460951	9.96
04	MW-106I	228064	6.91	835429	8.20	456183	9.96

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: M1770 SAS No.: M1770 SDG NO.: M1770

EPA Sample No.: SSTDCCC040 Date Analyzed: 03/24/2021

Lab File ID: BF123434.D Time Analyzed: 11:52

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	1078950	11.451	763891	14.11	595863	15.61
	UPPER LIMIT	2157900	11.951	1527780	14.61	1191730	16.11
	LOWER LIMIT	539475	10.951	381946	13.61	297932	15.11
	EPA SAMPLE NO.						
01	MW-105D	747404	11.45	410654	14.10	450073	15.60
02	MW-105I	737582	11.45	398271	14.10	440431	15.60
03	MW-105S	690568	11.45	386723	14.10	443919	15.60
04	MW-106I	716506	11.45	396107	14.10	428787	15.60

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: M1770 SAS No.: M1770 SDG NO.: M1770

EPA Sample No.: SSTDCCC040 Date Analyzed: 03/26/2021

Lab File ID: BF123477.D Time Analyzed: 09:48

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	189581	6.898	645006	8.19	343683	9.95
	UPPER LIMIT	379162	7.398	1290010	8.686	687366	10.445
	LOWER LIMIT	94790.5	6.398	322503	7.686	171842	9.445
	EPA SAMPLE NO.						
01	PB135347BS	208804	6.90	782298	8.19	416788	9.95
02	PB135347BSD	200948	6.90	747315	8.19	402852	9.95
03	MW-104D	240031	6.90	888284	8.19	505846	9.95
04	PB135347BL	216675	6.90	800248	8.18	443810	9.95
05	MW-104I	226634	6.90	836044	8.18	466168	9.94
06	MW-103D	243270	6.90	921168	8.19	504789	9.95
07	MW-103I	253841	6.90	950081	8.19	531854	9.95
08	MW-101S	254308	6.90	949119	8.18	526949	9.95
09	MW-101I	259823	6.90	960306	8.19	528881	9.95
10	MW-102S	254579	6.90	949604	8.19	529041	9.95
11	MW-102I	254739	6.90	949521	8.18	528629	9.94
12	MW-107I	256178	6.90	944272	8.18	529649	9.95

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: M1770 SAS No.: M1770 SDG NO.: M1770

EPA Sample No.: SSTDCCC040 Date Analyzed: 03/26/2021

Lab File ID: BF123477.D Time Analyzed: 09:48

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	621604	11.433	524345	14.086	436942	15.58
	UPPER LIMIT	1243210	11.933	1048690	14.586	873884	16.08
	LOWER LIMIT	310802	10.933	262173	13.586	218471	15.08
	EPA SAMPLE NO.						
01	PB135347BS	767169	11.44	577194	14.09	430223	15.58
02	PB135347BSD	734648	11.44	552611	14.09	422350	15.58
03	MW-104D	861203	11.43	591395	14.08	462257	15.58
04	PB135347BL	782849	11.43	653349	14.08	555988	15.58
05	MW-104I	800712	11.43	529431	14.08	425430	15.58
06	MW-103D	870404	11.43	569815	14.08	463746	15.58
07	MW-103I	900680	11.43	601075	14.08	467263	15.58
08	MW-101S	911478	11.43	599475	14.08	467654	15.58
09	MW-101I	889053	11.43	528727	14.08	471285	15.57
10	MW-102S	936904	11.43	619243	14.08	470980	15.57
11	MW-102I	914993	11.43	617434	14.08	496446	15.58
12	MW-107I	927663	11.43	616426	14.08	498294	15.57

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: M1770 SAS No.: M1770 SDG NO.: M1770

EPA Sample No.: SSTDCCC040 Date Analyzed: 03/24/2021

Lab File ID: BG048485.D Time Analyzed: 10:40

Instrument ID: BNA_G GC Column: ZB-GR ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	43389	8.103	167233	10.92	116982	14.75
	UPPER LIMIT	86778	8.603	334466	11.423	233964	15.248
	LOWER LIMIT	21694.5	7.603	83616.5	10.423	58491	14.248
	EPA SAMPLE NO.						
01	PB135304BL	41300	8.10	161291	10.92	113889	14.74
02	PB135304BS	42737	8.10	175006	10.93	126905	14.74
03	MW-106S	49754	8.10	197841	10.92	140798	14.74
04	MW-106SMS	52160	8.10	211750	10.92	153014	14.75
05	MW-106SMSD	49956	8.10	208351	10.92	146943	14.74

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: M1770 SAS No.: M1770 SDG NO.: M1770

EPA Sample No.: SSTDCCC040 Date Analyzed: 03/24/2021

Lab File ID: BG048485.D Time Analyzed: 10:40

Instrument ID: BNA_G GC Column: ZB-GR ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	273905	17.492	240659	21.787	266383	25.118
	UPPER LIMIT	547810	17.992	481318	22.287	532766	25.618
	LOWER LIMIT	136953	16.992	120330	21.287	133192	24.618
	EPA SAMPLE NO.						
01	PB135304BL	270471	17.49	277799	21.78	301569	25.11
02	PB135304BS	305365	17.49	288256	21.78	257910	25.12
03	MW-106S	306660	17.49	279622	21.78	295182	25.11
04	MW-106SMS	318886	17.50	291902	21.79	307309	25.12
05	MW-106SMSD	318737	17.50	292439	21.79	312595	25.12

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: M1770 SAS No.: M1770 SDG NO.: M1770

EPA Sample No.: SSTDCCC040 Date Analyzed: 03/25/2021

Lab File ID: BG048495.D Time Analyzed: 10:03

Instrument ID: BNA_G GC Column: ZB-GR ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	43483	8.102	155655	10.92	112174	14.74
	UPPER LIMIT	86966	8.602	311310	11.423	224348	15.242
	LOWER LIMIT	21741.5	7.602	77827.5	10.423	56087	14.242
	EPA SAMPLE NO.						
01	MW-106D	53723	8.10	212817	10.92	145017	14.74

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: M1770 SAS No.: M1770 SDG NO.: M1770

EPA Sample No.: SSTDCCC040 Date Analyzed: 03/25/2021

Lab File ID: BG048495.D Time Analyzed: 10:03

Instrument ID: BNA_G GC Column: ZB-GR ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	260205	17.491	264949	21.786	298126	25.118
	UPPER LIMIT	520410	17.991	529898	22.286	596252	25.618
	LOWER LIMIT	130103	16.991	132475	21.286	149063	24.618
	EPA SAMPLE NO.						
01	MW-106D	314577	17.49	308571	21.78	329719	25.11

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: M1770 SAS No.: M1770 SDG NO.: M1770

EPA Sample No.: SSTDCCC040 Date Analyzed: 03/29/2021

Lab File ID: BM029250.D Time Analyzed: 18:31

Instrument ID: BNA_M GC Column: ZB-GR ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	82190	7.751	308935	10.53	194542	14.38
	UPPER LIMIT	164380	8.251	617870	11.034	389084	14.88
	LOWER LIMIT	41095	7.251	154468	10.034	97271	13.88
	EPA SAMPLE NO.						
01	MW-103S	108553	7.75	440547	10.53	267558	14.38
02	MW-101D	107678	7.75	426812	10.53	245275	14.37
03	FB-03232021	104653	7.75	414216	10.53	240224	14.37

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: M1770 SAS No.: M1770 SDG NO.: M1770

EPA Sample No.: SSTDCCC040 Date Analyzed: 03/29/2021

Lab File ID: BM029250.D Time Analyzed: 18:31

Instrument ID: BNA_M GC Column: ZB-GR ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	390315	17.115	433749	21.286	442406	23.515
	UPPER LIMIT	780630	17.615	867498	21.786	884812	24.015
	LOWER LIMIT	195158	16.615	216875	20.786	221203	23.015
	EPA SAMPLE NO.						
01	MW-103S	545895	17.12	555500	21.29	621319	23.52
02	MW-101D	482362	17.12	488602	21.28	537039	23.52
03	FB-03232021	494517	17.12	547225	21.28	589964	23.52

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: M1770 SAS No.: M1770 SDG NO.: M1770

EPA Sample No.: SSTDCCC040 Date Analyzed: 03/31/2021

Lab File ID: BP005117.D Time Analyzed: 09:33

Instrument ID: BNA_P GC Column: ZB-GR ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	29277	7.71	113074	10.50	74112	14.36
	UPPER LIMIT	58554	8.21	226148	10.998	148224	14.863
	LOWER LIMIT	14638.5	7.21	56537	9.998	37056	13.863
	EPA SAMPLE NO.						
01	MW-102D	38683	7.71	158230	10.50	101491	14.37

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: M1770 SAS No.: M1770 SDG NO.: M1770

EPA Sample No.: SSTDCCC040 Date Analyzed: 03/31/2021

Lab File ID: BP005117.D Time Analyzed: 09:33

Instrument ID: BNA_P GC Column: ZB-GR ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	151898	17.127	152806	21.221	152418	23.504
	UPPER LIMIT	303796	17.627	305612	21.721	304836	24.004
	LOWER LIMIT	75949	16.627	76403	20.721	76209	23.004
	EPA SAMPLE NO.						
01	MW-102D	212949	17.13	213289	21.22	225295	23.51

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: M1770 SAS No.: M1770 SDG NO.: M1770

EPA Sample No.: SSTDCCC040 Date Analyzed: 04/01/2021

Lab File ID: BP005130.D Time Analyzed: 11:40

Instrument ID: BNA_P GC Column: ZB-GR ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	33388	7.705	132496	10.50	85183	14.36
	UPPER LIMIT	66776	8.205	264992	10.999	170366	14.863
	LOWER LIMIT	16694	7.205	66248	9.999	42591.5	13.863
	EPA SAMPLE NO.						
01	MW-102DRE	30264	7.70	122102	10.49	80047	14.36

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: M1770 SAS No.: M1770 SDG NO.: M1770

EPA Sample No.: SSTDCCC040 Date Analyzed: 04/01/2021

Lab File ID: BP005130.D Time Analyzed: 11:40

Instrument ID: BNA_P GC Column: ZB-GR ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	168916	17.128	167664	21.228	169255	23.51
	UPPER LIMIT	337832	17.628	335328	21.728	338510	24.01
	LOWER LIMIT	84458	16.628	83832	20.728	84627.5	23.01
	EPA SAMPLE NO.						
01	MW-102DRE	173742	17.12	182629	21.22	185995	23.50

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

QC SAMPLE DATA

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	
Client Sample ID:	PB135304BL	SDG No.:	M1770
Lab Sample ID:	PB135304BL	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG048486.D	1	03/23/21 10:20	03/24/21 12:47	PB135304

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.0	U	3.60	10.0	ug/L
108-95-2	Phenol	5.00	U	1.50	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	5.00	U	1.40	5.00	ug/L
95-57-8	2-Chlorophenol	5.00	U	1.40	5.00	ug/L
95-48-7	2-Methylphenol	5.00	U	1.90	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	5.00	U	1.60	5.00	ug/L
98-86-2	Acetophenone	5.00	U	1.90	5.00	ug/L
65794-96-9	3+4-Methylphenols	10.0	U	3.90	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	5.00	U	1.70	5.00	ug/L
67-72-1	Hexachloroethane	5.00	U	1.60	5.00	ug/L
98-95-3	Nitrobenzene	5.00	U	1.60	5.00	ug/L
78-59-1	Isophorone	5.00	U	2.00	5.00	ug/L
88-75-5	2-Nitrophenol	5.00	U	1.90	5.00	ug/L
105-67-9	2,4-Dimethylphenol	5.00	U	2.30	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	5.00	U	2.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	5.00	U	1.90	5.00	ug/L
91-20-3	Naphthalene	5.00	U	1.90	5.00	ug/L
106-47-8	4-Chloroaniline	5.00	U	2.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	5.00	U	1.90	5.00	ug/L
105-60-2	Caprolactam	10.0	U	2.60	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	5.00	U	1.90	5.00	ug/L
91-57-6	2-Methylnaphthalene	5.00	U	2.20	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	10.0	U	4.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	5.00	U	1.70	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	5.00	U	1.80	5.00	ug/L
92-52-4	1,1-Biphenyl	5.00	U	2.20	5.00	ug/L
91-58-7	2-Chloronaphthalene	5.00	U	1.90	5.00	ug/L
88-74-4	2-Nitroaniline	5.00	U	1.70	5.00	ug/L
131-11-3	Dimethylphthalate	5.00	U	1.80	5.00	ug/L
208-96-8	Acenaphthylene	5.00	U	2.10	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	5.00	U	1.80	5.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	
Client Sample ID:	PB135304BL	SDG No.:	M1770
Lab Sample ID:	PB135304BL	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG048486.D	1	03/23/21 10:20	03/24/21 12:47	PB135304

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	5.00	U	2.20	5.00	ug/L
83-32-9	Acenaphthene	5.00	U	2.30	5.00	ug/L
51-28-5	2,4-Dinitrophenol	10.0	U	5.40	10.0	ug/L
100-02-7	4-Nitrophenol	10.0	U	3.70	10.0	ug/L
132-64-9	Dibenzofuran	5.00	U	2.20	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	5.00	U	2.10	5.00	ug/L
84-66-2	Diethylphthalate	5.00	U	2.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	5.00	U	2.40	5.00	ug/L
86-73-7	Fluorene	5.00	U	2.20	5.00	ug/L
100-01-6	4-Nitroaniline	5.00	U	2.50	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.0	U	2.80	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	5.00	U	2.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	5.00	U	2.10	5.00	ug/L
118-74-1	Hexachlorobenzene	5.00	U	2.10	5.00	ug/L
1912-24-9	Atrazine	5.00	U	2.80	5.00	ug/L
87-86-5	Pentachlorophenol	10.0	U	2.20	10.0	ug/L
85-01-8	Phenanthrene	5.00	U	2.20	5.00	ug/L
120-12-7	Anthracene	5.00	U	2.30	5.00	ug/L
86-74-8	Carbazole	5.00	U	2.40	5.00	ug/L
84-74-2	Di-n-butylphthalate	5.00	U	2.80	5.00	ug/L
206-44-0	Fluoranthene	5.00	U	2.60	5.00	ug/L
129-00-0	Pyrene	5.00	U	1.90	5.00	ug/L
85-68-7	Butylbenzylphthalate	5.00	U	2.60	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	5.00	U	2.70	5.00	ug/L
56-55-3	Benzo(a)anthracene	5.00	U	2.20	5.00	ug/L
218-01-9	Chrysene	5.00	U	2.30	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	5.00	U	2.80	5.00	ug/L
117-84-0	Di-n-octyl phthalate	10.0	U	3.70	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	5.00	U	2.00	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	5.00	U	2.00	5.00	ug/L
50-32-8	Benzo(a)pyrene	5.00	U	2.00	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	2.60	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.00	U	2.30	5.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	
Client Sample ID:	PB135304BL	SDG No.:	M1770
Lab Sample ID:	PB135304BL	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG048486.D	1	03/23/21 10:20	03/24/21 12:47	PB135304

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	5.00	U	2.00	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	5.00	U	2.10	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	5.00	U	2.00	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	150		10 - 139	100%	SPK: 150
13127-88-3	Phenol-d6	135		10 - 134	90%	SPK: 150
4165-60-0	Nitrobenzene-d5	91.6		49 - 133	92%	SPK: 100
321-60-8	2-Fluorobiphenyl	93.4		52 - 132	93%	SPK: 100
118-79-6	2,4,6-Tribromophenol	138		45 - 141	92%	SPK: 150
1718-51-0	Terphenyl-d14	91.5		45 - 142	92%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	41300	8.102			
1146-65-2	Naphthalene-d8	161000	10.923			
15067-26-2	Acenaphthene-d10	114000	14.742			
1517-22-2	Phenanthrene-d10	270000	17.491			
1719-03-5	Chrysene-d12	278000	21.78			
1520-96-3	Perylene-d12	302000	25.112			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	
Client Sample ID:	PB135347BL	SDG No.:	M1770
Lab Sample ID:	PB135347BL	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF123483.D	1	03/25/21 08:35	03/26/21 13:16	PB135347

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.0	U	3.60	10.0	ug/L
108-95-2	Phenol	5.00	U	1.50	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	5.00	U	1.40	5.00	ug/L
95-57-8	2-Chlorophenol	5.00	U	1.40	5.00	ug/L
95-48-7	2-Methylphenol	5.00	U	1.90	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	5.00	U	1.60	5.00	ug/L
98-86-2	Acetophenone	5.00	U	1.90	5.00	ug/L
65794-96-9	3+4-Methylphenols	10.0	U	3.90	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	5.00	U	1.70	5.00	ug/L
67-72-1	Hexachloroethane	5.00	U	1.60	5.00	ug/L
98-95-3	Nitrobenzene	5.00	U	1.60	5.00	ug/L
78-59-1	Isophorone	5.00	U	2.00	5.00	ug/L
88-75-5	2-Nitrophenol	5.00	U	1.90	5.00	ug/L
105-67-9	2,4-Dimethylphenol	5.00	U	2.30	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	5.00	U	2.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	5.00	U	1.90	5.00	ug/L
91-20-3	Naphthalene	5.00	U	1.90	5.00	ug/L
106-47-8	4-Chloroaniline	5.00	U	2.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	5.00	U	1.90	5.00	ug/L
105-60-2	Caprolactam	10.0	U	2.60	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	5.00	U	1.90	5.00	ug/L
91-57-6	2-Methylnaphthalene	5.00	U	2.20	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	10.0	U	4.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	5.00	U	1.70	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	5.00	U	1.80	5.00	ug/L
92-52-4	1,1-Biphenyl	5.00	U	2.20	5.00	ug/L
91-58-7	2-Chloronaphthalene	5.00	U	1.90	5.00	ug/L
88-74-4	2-Nitroaniline	5.00	U	1.70	5.00	ug/L
131-11-3	Dimethylphthalate	5.00	U	1.80	5.00	ug/L
208-96-8	Acenaphthylene	5.00	U	2.10	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	5.00	U	1.80	5.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	
Client Sample ID:	PB135347BL	SDG No.:	M1770
Lab Sample ID:	PB135347BL	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF123483.D	1	03/25/21 08:35	03/26/21 13:16	PB135347

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	5.00	U	2.20	5.00	ug/L
83-32-9	Acenaphthene	5.00	U	2.30	5.00	ug/L
51-28-5	2,4-Dinitrophenol	10.0	U	5.40	10.0	ug/L
100-02-7	4-Nitrophenol	10.0	U	3.70	10.0	ug/L
132-64-9	Dibenzofuran	5.00	U	2.20	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	5.00	U	2.10	5.00	ug/L
84-66-2	Diethylphthalate	5.00	U	2.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	5.00	U	2.40	5.00	ug/L
86-73-7	Fluorene	5.00	U	2.20	5.00	ug/L
100-01-6	4-Nitroaniline	5.00	U	2.50	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.0	U	2.80	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	5.00	U	2.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	5.00	U	2.10	5.00	ug/L
118-74-1	Hexachlorobenzene	5.00	U	2.10	5.00	ug/L
1912-24-9	Atrazine	5.00	U	2.80	5.00	ug/L
87-86-5	Pentachlorophenol	10.0	U	2.20	10.0	ug/L
85-01-8	Phenanthrene	5.00	U	2.20	5.00	ug/L
120-12-7	Anthracene	5.00	U	2.30	5.00	ug/L
86-74-8	Carbazole	5.00	U	2.40	5.00	ug/L
84-74-2	Di-n-butylphthalate	5.00	U	2.80	5.00	ug/L
206-44-0	Fluoranthene	5.00	U	2.60	5.00	ug/L
129-00-0	Pyrene	5.00	U	1.90	5.00	ug/L
85-68-7	Butylbenzylphthalate	5.00	U	2.60	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	5.00	U	2.70	5.00	ug/L
56-55-3	Benzo(a)anthracene	5.00	U	2.20	5.00	ug/L
218-01-9	Chrysene	5.00	U	2.30	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	5.00	U	2.80	5.00	ug/L
117-84-0	Di-n-octyl phthalate	10.0	U	3.70	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	5.00	U	2.00	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	5.00	U	2.00	5.00	ug/L
50-32-8	Benzo(a)pyrene	5.00	U	2.00	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	2.60	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.00	U	2.30	5.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	
Client Sample ID:	PB135347BL	SDG No.:	M1770
Lab Sample ID:	PB135347BL	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF123483.D	1	03/25/21 08:35	03/26/21 13:16	PB135347

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	5.00	U	2.00	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	5.00	U	2.10	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	5.00	U	2.00	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	117		10 - 139	78%	SPK: 150
13127-88-3	Phenol-d6	111		10 - 134	74%	SPK: 150
4165-60-0	Nitrobenzene-d5	87.9		49 - 133	88%	SPK: 100
321-60-8	2-Fluorobiphenyl	74.3		52 - 132	74%	SPK: 100
118-79-6	2,4,6-Tribromophenol	120		45 - 141	80%	SPK: 150
1718-51-0	Terphenyl-d14	70.3		45 - 142	70%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	217000	6.898			
1146-65-2	Naphthalene-d8	800000	8.181			
15067-26-2	Acenaphthene-d10	444000	9.945			
1517-22-2	Phenanthrene-d10	783000	11.433			
1719-03-5	Chrysene-d12	653000	14.08			
1520-96-3	Perylene-d12	556000	15.58			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	
Client Sample ID:	PB135304BS	SDG No.:	M1770
Lab Sample ID:	PB135304BS	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG048487.D	1	03/23/21 10:20	03/24/21 13:27	PB135304

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	7.70	J	3.60	10.0	ug/L
108-95-2	Phenol	45.7		1.50	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	43.4		1.40	5.00	ug/L
95-57-8	2-Chlorophenol	46.0		1.40	5.00	ug/L
95-48-7	2-Methylphenol	48.3		1.90	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	40.5		1.60	5.00	ug/L
98-86-2	Acetophenone	40.0		1.90	5.00	ug/L
65794-96-9	3+4-Methylphenols	48.2		3.90	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	40.8		1.70	5.00	ug/L
67-72-1	Hexachloroethane	42.0		1.60	5.00	ug/L
98-95-3	Nitrobenzene	37.2		1.60	5.00	ug/L
78-59-1	Isophorone	37.0		2.00	5.00	ug/L
88-75-5	2-Nitrophenol	38.6		1.90	5.00	ug/L
105-67-9	2,4-Dimethylphenol	47.0		2.30	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	44.4		2.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	42.2		1.90	5.00	ug/L
91-20-3	Naphthalene	39.5		1.90	5.00	ug/L
106-47-8	4-Chloroaniline	26.5		2.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	31.3		1.90	5.00	ug/L
105-60-2	Caprolactam	42.9		2.60	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	43.5		1.90	5.00	ug/L
91-57-6	2-Methylnaphthalene	40.9		2.20	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	69.4		4.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	40.4		1.70	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	39.0		1.80	5.00	ug/L
92-52-4	1,1-Biphenyl	42.1		2.20	5.00	ug/L
91-58-7	2-Chloronaphthalene	40.9		1.90	5.00	ug/L
88-74-4	2-Nitroaniline	44.6		1.70	5.00	ug/L
131-11-3	Dimethylphthalate	40.9		1.80	5.00	ug/L
208-96-8	Acenaphthylene	40.5		2.10	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	40.9		1.80	5.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	
Client Sample ID:	PB135304BS	SDG No.:	M1770
Lab Sample ID:	PB135304BS	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG048487.D	1	03/23/21 10:20	03/24/21 13:27	PB135304

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	30.1		2.20	5.00	ug/L
83-32-9	Acenaphthene	47.7		2.30	5.00	ug/L
51-28-5	2,4-Dinitrophenol	90.5	E	5.40	10.0	ug/L
100-02-7	4-Nitrophenol	82.3	E	3.70	10.0	ug/L
132-64-9	Dibenzofuran	40.7		2.20	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	41.0		2.10	5.00	ug/L
84-66-2	Diethylphthalate	44.8		2.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	39.5		2.40	5.00	ug/L
86-73-7	Fluorene	39.5		2.20	5.00	ug/L
100-01-6	4-Nitroaniline	38.9		2.50	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	44.7		2.80	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	41.7		2.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	38.6		2.10	5.00	ug/L
118-74-1	Hexachlorobenzene	39.8		2.10	5.00	ug/L
1912-24-9	Atrazine	35.5		2.80	5.00	ug/L
87-86-5	Pentachlorophenol	78.8		2.20	10.0	ug/L
85-01-8	Phenanthrene	41.1		2.20	5.00	ug/L
120-12-7	Anthracene	41.8		2.30	5.00	ug/L
86-74-8	Carbazole	40.9		2.40	5.00	ug/L
84-74-2	Di-n-butylphthalate	44.9		2.80	5.00	ug/L
206-44-0	Fluoranthene	38.9		2.60	5.00	ug/L
129-00-0	Pyrene	41.6		1.90	5.00	ug/L
85-68-7	Butylbenzylphthalate	46.2		2.60	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	33.9		2.70	5.00	ug/L
56-55-3	Benzo(a)anthracene	38.2		2.20	5.00	ug/L
218-01-9	Chrysene	38.4		2.30	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	47.5		2.80	5.00	ug/L
117-84-0	Di-n-octyl phthalate	48.3		3.70	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	45.1		2.00	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	45.6		2.00	5.00	ug/L
50-32-8	Benzo(a)pyrene	43.9		2.00	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	46.5		2.60	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	46.1		2.30	5.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	
Client Sample ID:	PB135304BS	SDG No.:	M1770
Lab Sample ID:	PB135304BS	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG048487.D	1	03/23/21 10:20	03/24/21 13:27	PB135304

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	46.7		2.00	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	35.7		2.10	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	37.2		2.00	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	116		10 - 139	77%	SPK: 150
13127-88-3	Phenol-d6	114		10 - 134	76%	SPK: 150
4165-60-0	Nitrobenzene-d5	55.7		49 - 133	56%	SPK: 100
321-60-8	2-Fluorobiphenyl	57.7		52 - 132	58%	SPK: 100
118-79-6	2,4,6-Tribromophenol	104		45 - 141	69%	SPK: 150
1718-51-0	Terphenyl-d14	53.8		45 - 142	54%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	42700	8.099			
1146-65-2	Naphthalene-d8	175000	10.925			
15067-26-2	Acenaphthene-d10	127000	14.744			
1517-22-2	Phenanthrene-d10	305000	17.494			
1719-03-5	Chrysene-d12	288000	21.783			
1520-96-3	Perylene-d12	258000	25.115			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	
Client Sample ID:	PB135347BS	SDG No.:	M1770
Lab Sample ID:	PB135347BS	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF123479.D	1	03/25/21 08:35	03/26/21 11:04	PB135347

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	13.3		3.60	10.0	ug/L
108-95-2	Phenol	43.1		1.50	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	40.5		1.40	5.00	ug/L
95-57-8	2-Chlorophenol	40.9		1.40	5.00	ug/L
95-48-7	2-Methylphenol	41.1		1.90	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	38.5		1.60	5.00	ug/L
98-86-2	Acetophenone	40.0		1.90	5.00	ug/L
65794-96-9	3+4-Methylphenols	39.7		3.90	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	38.3		1.70	5.00	ug/L
67-72-1	Hexachloroethane	42.0		1.60	5.00	ug/L
98-95-3	Nitrobenzene	39.6		1.60	5.00	ug/L
78-59-1	Isophorone	36.8		2.00	5.00	ug/L
88-75-5	2-Nitrophenol	52.0		1.90	5.00	ug/L
105-67-9	2,4-Dimethylphenol	42.3		2.30	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	41.8		2.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	39.6		1.90	5.00	ug/L
91-20-3	Naphthalene	39.0		1.90	5.00	ug/L
106-47-8	4-Chloroaniline	24.1		2.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	38.3		1.90	5.00	ug/L
105-60-2	Caprolactam	42.1		2.60	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	40.3		1.90	5.00	ug/L
91-57-6	2-Methylnaphthalene	38.8		2.20	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	89.8	E	4.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	39.9		1.70	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	41.0		1.80	5.00	ug/L
92-52-4	1,1-Biphenyl	41.0		2.20	5.00	ug/L
91-58-7	2-Chloronaphthalene	39.8		1.90	5.00	ug/L
88-74-4	2-Nitroaniline	47.6		1.70	5.00	ug/L
131-11-3	Dimethylphthalate	39.9		1.80	5.00	ug/L
208-96-8	Acenaphthylene	39.8		2.10	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	43.2		1.80	5.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	
Client Sample ID:	PB135347BS	SDG No.:	M1770
Lab Sample ID:	PB135347BS	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF123479.D	1	03/25/21 08:35	03/26/21 11:04	PB135347

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	33.4		2.20	5.00	ug/L
83-32-9	Acenaphthene	44.2		2.30	5.00	ug/L
51-28-5	2,4-Dinitrophenol	93.1	E	5.40	10.0	ug/L
100-02-7	4-Nitrophenol	85.7	E	3.70	10.0	ug/L
132-64-9	Dibenzofuran	38.5		2.20	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	47.3		2.10	5.00	ug/L
84-66-2	Diethylphthalate	39.5		2.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	39.2		2.40	5.00	ug/L
86-73-7	Fluorene	39.6		2.20	5.00	ug/L
100-01-6	4-Nitroaniline	44.7		2.50	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	46.1		2.80	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	38.0		2.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	39.1		2.10	5.00	ug/L
118-74-1	Hexachlorobenzene	40.2		2.10	5.00	ug/L
1912-24-9	Atrazine	36.2		2.80	5.00	ug/L
87-86-5	Pentachlorophenol	77.1		2.20	10.0	ug/L
85-01-8	Phenanthrene	38.6		2.20	5.00	ug/L
120-12-7	Anthracene	39.8		2.30	5.00	ug/L
86-74-8	Carbazole	38.1		2.40	5.00	ug/L
84-74-2	Di-n-butylphthalate	38.4		2.80	5.00	ug/L
206-44-0	Fluoranthene	40.1		2.60	5.00	ug/L
129-00-0	Pyrene	37.0		1.90	5.00	ug/L
85-68-7	Butylbenzylphthalate	40.1		2.60	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	31.1		2.70	5.00	ug/L
56-55-3	Benzo(a)anthracene	38.4		2.20	5.00	ug/L
218-01-9	Chrysene	37.5		2.30	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	38.5		2.80	5.00	ug/L
117-84-0	Di-n-octyl phthalate	38.4		3.70	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	40.8		2.00	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	41.9		2.00	5.00	ug/L
50-32-8	Benzo(a)pyrene	39.8		2.00	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	40.7		2.60	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	39.6		2.30	5.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	
Client Sample ID:	PB135347BS	SDG No.:	M1770
Lab Sample ID:	PB135347BS	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF123479.D	1	03/25/21 08:35	03/26/21 11:04	PB135347

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	40.6		2.00	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	40.7		2.10	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	43.1		2.00	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	99.9		10 - 139	67%	SPK: 150
13127-88-3	Phenol-d6	98.4		10 - 134	66%	SPK: 150
4165-60-0	Nitrobenzene-d5	62.6		49 - 133	63%	SPK: 100
321-60-8	2-Fluorobiphenyl	57.2		52 - 132	57%	SPK: 100
118-79-6	2,4,6-Tribromophenol	106		45 - 141	71%	SPK: 150
1718-51-0	Terphenyl-d14	51.7		45 - 142	52%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	209000	6.898			
1146-65-2	Naphthalene-d8	782000	8.186			
15067-26-2	Acenaphthene-d10	417000	9.945			
1517-22-2	Phenanthrene-d10	767000	11.439			
1719-03-5	Chrysene-d12	577000	14.086			
1520-96-3	Perylene-d12	430000	15.58			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	
Client Sample ID:	PB135347BSD	SDG No.:	M1770
Lab Sample ID:	PB135347BSD	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF123480.D	1	03/25/21 08:35	03/26/21 11:36	PB135347

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	13.2		3.60	10.0	ug/L
108-95-2	Phenol	42.9		1.50	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	40.7		1.40	5.00	ug/L
95-57-8	2-Chlorophenol	40.8		1.40	5.00	ug/L
95-48-7	2-Methylphenol	41.4		1.90	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	38.2		1.60	5.00	ug/L
98-86-2	Acetophenone	39.9		1.90	5.00	ug/L
65794-96-9	3+4-Methylphenols	39.4		3.90	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	38.1		1.70	5.00	ug/L
67-72-1	Hexachloroethane	41.9		1.60	5.00	ug/L
98-95-3	Nitrobenzene	40.4		1.60	5.00	ug/L
78-59-1	Isophorone	37.0		2.00	5.00	ug/L
88-75-5	2-Nitrophenol	51.8		1.90	5.00	ug/L
105-67-9	2,4-Dimethylphenol	39.8		2.30	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	42.3		2.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	40.0		1.90	5.00	ug/L
91-20-3	Naphthalene	39.2		1.90	5.00	ug/L
106-47-8	4-Chloroaniline	23.6		2.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	38.6		1.90	5.00	ug/L
105-60-2	Caprolactam	42.5		2.60	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	40.3		1.90	5.00	ug/L
91-57-6	2-Methylnaphthalene	39.2		2.20	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	90.0	E	4.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	39.8		1.70	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	40.7		1.80	5.00	ug/L
92-52-4	1,1-Biphenyl	40.5		2.20	5.00	ug/L
91-58-7	2-Chloronaphthalene	39.5		1.90	5.00	ug/L
88-74-4	2-Nitroaniline	47.1		1.70	5.00	ug/L
131-11-3	Dimethylphthalate	39.8		1.80	5.00	ug/L
208-96-8	Acenaphthylene	39.5		2.10	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	43.1		1.80	5.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	
Client Sample ID:	PB135347BSD	SDG No.:	M1770
Lab Sample ID:	PB135347BSD	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF123480.D	1	03/25/21 08:35	03/26/21 11:36	PB135347

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	31.3		2.20	5.00	ug/L
83-32-9	Acenaphthene	44.4		2.30	5.00	ug/L
51-28-5	2,4-Dinitrophenol	92.9	E	5.40	10.0	ug/L
100-02-7	4-Nitrophenol	87.5	E	3.70	10.0	ug/L
132-64-9	Dibenzofuran	38.5		2.20	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	46.8		2.10	5.00	ug/L
84-66-2	Diethylphthalate	39.3		2.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	39.3		2.40	5.00	ug/L
86-73-7	Fluorene	39.3		2.20	5.00	ug/L
100-01-6	4-Nitroaniline	44.3		2.50	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	45.3		2.80	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	38.0		2.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	39.5		2.10	5.00	ug/L
118-74-1	Hexachlorobenzene	39.7		2.10	5.00	ug/L
1912-24-9	Atrazine	35.8		2.80	5.00	ug/L
87-86-5	Pentachlorophenol	77.9		2.20	10.0	ug/L
85-01-8	Phenanthrene	38.7		2.20	5.00	ug/L
120-12-7	Anthracene	39.4		2.30	5.00	ug/L
86-74-8	Carbazole	38.1		2.40	5.00	ug/L
84-74-2	Di-n-butylphthalate	38.4		2.80	5.00	ug/L
206-44-0	Fluoranthene	40.3		2.60	5.00	ug/L
129-00-0	Pyrene	37.1		1.90	5.00	ug/L
85-68-7	Butylbenzylphthalate	40.3		2.60	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	31.7		2.70	5.00	ug/L
56-55-3	Benzo(a)anthracene	38.9		2.20	5.00	ug/L
218-01-9	Chrysene	38.4		2.30	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	39.3		2.80	5.00	ug/L
117-84-0	Di-n-octyl phthalate	40.0		3.70	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	40.1		2.00	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	42.8		2.00	5.00	ug/L
50-32-8	Benzo(a)pyrene	39.9		2.00	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	41.6		2.60	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	40.6		2.30	5.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	
Client Sample ID:	PB135347BSD	SDG No.:	M1770
Lab Sample ID:	PB135347BSD	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF123480.D	1	03/25/21 08:35	03/26/21 11:36	PB135347

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	41.8		2.00	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	39.8		2.10	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	41.6		2.00	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	100		10 - 139	67%	SPK: 150
13127-88-3	Phenol-d6	97.8		10 - 134	65%	SPK: 150
4165-60-0	Nitrobenzene-d5	63.2		49 - 133	63%	SPK: 100
321-60-8	2-Fluorobiphenyl	57.0		52 - 132	57%	SPK: 100
118-79-6	2,4,6-Tribromophenol	105		45 - 141	70%	SPK: 150
1718-51-0	Terphenyl-d14	51.8		45 - 142	52%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	201000	6.898			
1146-65-2	Naphthalene-d8	747000	8.186			
15067-26-2	Acenaphthene-d10	403000	9.945			
1517-22-2	Phenanthrene-d10	735000	11.439			
1719-03-5	Chrysene-d12	553000	14.086			
1520-96-3	Perylene-d12	422000	15.58			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/22/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/22/21
Client Sample ID:	MW-106SMS	SDG No.:	M1770
Lab Sample ID:	M1770-04MS	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG048490.D	1	03/23/21 10:20	03/24/21 15:37	PB135304

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	75.8		3.60	10.0	ug/L
108-95-2	Phenol	21.6		1.50	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	52.0		1.40	5.00	ug/L
95-57-8	2-Chlorophenol	51.2		1.40	5.00	ug/L
95-48-7	2-Methylphenol	44.9		1.90	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	47.9		1.60	5.00	ug/L
98-86-2	Acetophenone	49.3		1.90	5.00	ug/L
65794-96-9	3+4-Methylphenols	40.6		3.90	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	49.3		1.70	5.00	ug/L
67-72-1	Hexachloroethane	47.2		1.60	5.00	ug/L
98-95-3	Nitrobenzene	44.1		1.60	5.00	ug/L
78-59-1	Isophorone	45.1		2.00	5.00	ug/L
88-75-5	2-Nitrophenol	47.0		1.90	5.00	ug/L
105-67-9	2,4-Dimethylphenol	52.9		2.30	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	52.8		2.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	49.2		1.90	5.00	ug/L
91-20-3	Naphthalene	45.5		1.90	5.00	ug/L
106-47-8	4-Chloroaniline	10.5		2.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	37.2		1.90	5.00	ug/L
105-60-2	Caprolactam	8.90	J	2.60	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	48.6		1.90	5.00	ug/L
91-57-6	2-Methylnaphthalene	47.4		2.20	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	88.3	E	4.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	46.4		1.70	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	45.4		1.80	5.00	ug/L
92-52-4	1,1-Biphenyl	50.7		2.20	5.00	ug/L
91-58-7	2-Chloronaphthalene	48.6		1.90	5.00	ug/L
88-74-4	2-Nitroaniline	51.7		1.70	5.00	ug/L
131-11-3	Dimethylphthalate	47.2		1.80	5.00	ug/L
208-96-8	Acenaphthylene	50.3		2.10	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	46.9		1.80	5.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/22/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/22/21
Client Sample ID:	MW-106SMS	SDG No.:	M1770
Lab Sample ID:	M1770-04MS	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG048490.D	1	03/23/21 10:20	03/24/21 15:37	PB135304

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	13.0		2.20	5.00	ug/L
83-32-9	Acenaphthene	55.2		2.30	5.00	ug/L
51-28-5	2,4-Dinitrophenol	88.5	E	5.40	10.0	ug/L
100-02-7	4-Nitrophenol	41.1		3.70	10.0	ug/L
132-64-9	Dibenzofuran	46.4		2.20	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	46.1		2.10	5.00	ug/L
84-66-2	Diethylphthalate	49.4		2.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	44.3		2.40	5.00	ug/L
86-73-7	Fluorene	44.8		2.20	5.00	ug/L
100-01-6	4-Nitroaniline	42.1		2.50	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	49.6		2.80	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	53.2		2.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	50.3		2.10	5.00	ug/L
118-74-1	Hexachlorobenzene	49.9		2.10	5.00	ug/L
1912-24-9	Atrazine	53.9		2.80	5.00	ug/L
87-86-5	Pentachlorophenol	94.0	E	2.20	10.0	ug/L
85-01-8	Phenanthrene	50.7		2.20	5.00	ug/L
120-12-7	Anthracene	52.0		2.30	5.00	ug/L
86-74-8	Carbazole	48.8		2.40	5.00	ug/L
84-74-2	Di-n-butylphthalate	53.5		2.80	5.00	ug/L
206-44-0	Fluoranthene	44.8		2.60	5.00	ug/L
129-00-0	Pyrene	50.4		1.90	5.00	ug/L
85-68-7	Butylbenzylphthalate	58.1		2.60	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	14.6		2.70	5.00	ug/L
56-55-3	Benzo(a)anthracene	49.2		2.20	5.00	ug/L
218-01-9	Chrysene	48.0		2.30	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	58.9		2.80	5.00	ug/L
117-84-0	Di-n-octyl phthalate	59.4		3.70	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	47.5		2.00	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	47.5		2.00	5.00	ug/L
50-32-8	Benzo(a)pyrene	45.9		2.00	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	50.2		2.60	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	48.5		2.30	5.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/22/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/22/21
Client Sample ID:	MW-106SMS	SDG No.:	M1770
Lab Sample ID:	M1770-04MS	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG048490.D	1	03/23/21 10:20	03/24/21 15:37	PB135304

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	49.4		2.00	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	43.9		2.10	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	42.0		2.00	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	86.2		10 - 139	57%	SPK: 150
13127-88-3	Phenol-d6	49.9		10 - 134	33%	SPK: 150
4165-60-0	Nitrobenzene-d5	91.0		49 - 133	91%	SPK: 100
321-60-8	2-Fluorobiphenyl	90.4		52 - 132	90%	SPK: 100
118-79-6	2,4,6-Tribromophenol	131		45 - 141	87%	SPK: 150
1718-51-0	Terphenyl-d14	88.3		45 - 142	88%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	52200	8.103			
1146-65-2	Naphthalene-d8	212000	10.923			
15067-26-2	Acenaphthene-d10	153000	14.748			
1517-22-2	Phenanthrene-d10	319000	17.498			
1719-03-5	Chrysene-d12	292000	21.787			
1520-96-3	Perylene-d12	307000	25.124			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/22/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/22/21
Client Sample ID:	MW-106SMSD	SDG No.:	M1770
Lab Sample ID:	M1770-05MSD	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG048491.D	1	03/23/21 10:20	03/24/21 16:17	PB135304

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	79.4		3.60	10.0	ug/L
108-95-2	Phenol	21.6		1.50	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	53.8		1.40	5.00	ug/L
95-57-8	2-Chlorophenol	53.2		1.40	5.00	ug/L
95-48-7	2-Methylphenol	45.5		1.90	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	49.9		1.60	5.00	ug/L
98-86-2	Acetophenone	49.0		1.90	5.00	ug/L
65794-96-9	3+4-Methylphenols	41.7		3.90	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	50.3		1.70	5.00	ug/L
67-72-1	Hexachloroethane	46.9		1.60	5.00	ug/L
98-95-3	Nitrobenzene	44.3		1.60	5.00	ug/L
78-59-1	Isophorone	45.4		2.00	5.00	ug/L
88-75-5	2-Nitrophenol	49.4		1.90	5.00	ug/L
105-67-9	2,4-Dimethylphenol	52.8		2.30	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	52.8		2.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	50.1		1.90	5.00	ug/L
91-20-3	Naphthalene	46.3		1.90	5.00	ug/L
106-47-8	4-Chloroaniline	11.0		2.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	37.4		1.90	5.00	ug/L
105-60-2	Caprolactam	8.40	J	2.60	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	48.1		1.90	5.00	ug/L
91-57-6	2-Methylnaphthalene	48.0		2.20	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	86.4	E	4.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	48.0		1.70	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	47.0		1.80	5.00	ug/L
92-52-4	1,1-Biphenyl	52.5		2.20	5.00	ug/L
91-58-7	2-Chloronaphthalene	50.2		1.90	5.00	ug/L
88-74-4	2-Nitroaniline	53.1		1.70	5.00	ug/L
131-11-3	Dimethylphthalate	48.6		1.80	5.00	ug/L
208-96-8	Acenaphthylene	51.7		2.10	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	47.6		1.80	5.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/22/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/22/21
Client Sample ID:	MW-106SMSD	SDG No.:	M1770
Lab Sample ID:	M1770-05MSD	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG048491.D	1	03/23/21 10:20	03/24/21 16:17	PB135304

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	12.9		2.20	5.00	ug/L
83-32-9	Acenaphthene	56.6		2.30	5.00	ug/L
51-28-5	2,4-Dinitrophenol	90.8	E	5.40	10.0	ug/L
100-02-7	4-Nitrophenol	42.3		3.70	10.0	ug/L
132-64-9	Dibenzofuran	47.9		2.20	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	47.7		2.10	5.00	ug/L
84-66-2	Diethylphthalate	51.3		2.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	45.6		2.40	5.00	ug/L
86-73-7	Fluorene	46.3		2.20	5.00	ug/L
100-01-6	4-Nitroaniline	44.0		2.50	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	49.0		2.80	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	53.7		2.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	49.5		2.10	5.00	ug/L
118-74-1	Hexachlorobenzene	50.8		2.10	5.00	ug/L
1912-24-9	Atrazine	53.6		2.80	5.00	ug/L
87-86-5	Pentachlorophenol	95.5	E	2.20	10.0	ug/L
85-01-8	Phenanthrene	51.4		2.20	5.00	ug/L
120-12-7	Anthracene	52.9		2.30	5.00	ug/L
86-74-8	Carbazole	49.7		2.40	5.00	ug/L
84-74-2	Di-n-butylphthalate	54.1		2.80	5.00	ug/L
206-44-0	Fluoranthene	45.2		2.60	5.00	ug/L
129-00-0	Pyrene	50.3		1.90	5.00	ug/L
85-68-7	Butylbenzylphthalate	59.3		2.60	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	15.3		2.70	5.00	ug/L
56-55-3	Benzo(a)anthracene	49.4		2.20	5.00	ug/L
218-01-9	Chrysene	48.3		2.30	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	59.0		2.80	5.00	ug/L
117-84-0	Di-n-octyl phthalate	60.1		3.70	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	47.4		2.00	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	47.0		2.00	5.00	ug/L
50-32-8	Benzo(a)pyrene	45.9		2.00	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	49.8		2.60	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	48.8		2.30	5.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/22/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/22/21
Client Sample ID:	MW-106SMSD	SDG No.:	M1770
Lab Sample ID:	M1770-05MSD	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG048491.D	1	03/23/21 10:20	03/24/21 16:17	PB135304

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	49.5		2.00	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	46.1		2.10	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	43.8		2.00	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	87.1		10 - 139	58%	SPK: 150
13127-88-3	Phenol-d6	50.9		10 - 134	34%	SPK: 150
4165-60-0	Nitrobenzene-d5	90.9		49 - 133	91%	SPK: 100
321-60-8	2-Fluorobiphenyl	94.9		52 - 132	95%	SPK: 100
118-79-6	2,4,6-Tribromophenol	138		45 - 141	92%	SPK: 150
1718-51-0	Terphenyl-d14	89.1		45 - 142	89%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	50000	8.103			
1146-65-2	Naphthalene-d8	208000	10.923			
15067-26-2	Acenaphthene-d10	147000	14.742			
1517-22-2	Phenanthrene-d10	319000	17.498			
1719-03-5	Chrysene-d12	292000	21.787			
1520-96-3	Perylene-d12	313000	25.118			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CALIBRATION SUMMARY

Response Factor Report Instrument #2

Method Path : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\
Method File : 8270-BF032321.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Mar 24 12:51:15 2021
Response Via : Initial Calibration

Calibration Files
5 =BF123398.D 10 =BF123399.D 20 =BF123400.D 40 =BF123401.D 50 =BF123402.D 60 =BF123403.D 80 =BF123404.D

		Compound	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------								
2)		1,4-Dioxane	0.614	0.755	0.595	0.587	0.546	0.519	0.501	0.588	14.35
3)		Pyridine	1.581	1.985	1.579	1.524	1.438	1.381	1.336	1.546	13.93
4)		n-Nitrosodimet...	0.934	1.123	0.931	0.934	0.878	0.857	0.818	0.925	10.62
5)	S	2-Fluorophenol	1.340	1.613	1.288	1.191	1.096	1.046	0.984	1.223	17.54
6)		Aniline	2.005	2.487	1.973	1.983	1.893	1.868	1.731	1.991	11.94
7)	S	Phenol-d6	1.767	2.129	1.688	1.593	1.477	1.420	1.318	1.627	16.59
8)		2-Chlorophenol	1.461	1.780	1.404	1.316	1.217	1.167	1.092	1.348	17.10
9)		Benzaldehyde	1.122	1.247	0.858	0.787	0.693	0.639		0.891	27.22
10)	C	Phenol	1.815	2.193	1.744	1.632	1.504	1.453	1.353	1.670	16.87
11)		bis(2-Chloroet...	1.424	1.695	1.394	1.313	1.225	1.185	1.087	1.332	14.93
12)		1,3-Dichlorobe...	1.584	1.890	1.529	1.410	1.327	1.271	1.172	1.455	16.45
13)	C	1,4-Dichlorobe...	1.574	1.918	1.514	1.419	1.328	1.264	1.167	1.455	17.05
14)		1,2-Dichlorobe...	1.473	1.807	1.418	1.314	1.221	1.161	1.067	1.351	18.18
15)		Benzyl Alcohol	1.262	1.558	1.311	1.303	1.205	1.188	1.091	1.274	11.49
16)		2,2'-oxybis(1-...	3.113	3.759	3.063	2.989	2.801	2.739	2.462	2.989	13.58
17)		2-Methylphenol	1.117	1.407	1.152	1.103	1.038	1.013	0.929	1.108	13.67
18)		Hexachloroethane	0.550	0.695	0.560	0.551	0.513	0.493	0.455	0.545	13.94
19)	P	n-Nitroso-di-n...	1.079	1.307	1.084	1.046	0.992	0.977	0.885	1.053	12.51
20)		3+4-Methylphenols	1.466	1.824	1.472	1.360	1.250	1.196	1.095	1.381	17.38
21)	I	Naphthalene-d8	----------ISTD----------								
22)		Acetophenone	0.546	0.651	0.531	0.480	0.454	0.440	0.412	0.502	16.21
23)	S	Nitrobenzene-d5	0.312	0.438	0.387	0.382	0.369	0.361	0.345	0.371	10.54
24)		Nitrobenzene	0.380	0.496	0.427	0.413	0.397	0.383	0.372	0.410	10.39
25)		Isophorone	0.773	0.965	0.818	0.790	0.762	0.759	0.709	0.797	10.20
26)	C	2-Nitrophenol	0.085	0.144	0.144	0.163	0.163	0.166	0.160	0.146	19.65
27)		2,4-Dimethylph...	0.326	0.404	0.338	0.323	0.308	0.296	0.285	0.326	12.00
28)		bis(2-Chloroet...	0.431	0.527	0.449	0.428	0.402	0.397	0.371	0.429	11.73
29)	C	2,4-Dichloroph...	0.299	0.394	0.331	0.319	0.305	0.300	0.288	0.320	11.18
30)		1,2,4-Trichlor...	0.363	0.439	0.367	0.344	0.320	0.314	0.295	0.349	13.70
31)		Naphthalene	1.178	1.374	1.145	1.042	0.976	0.936	0.876	1.075	15.85
32)		Benzoic acid		0.140	0.164	0.201	0.211	0.220	0.218	0.192	17.03
33)		4-Chloroaniline	0.455	0.544	0.464	0.435	0.407	0.400	0.382	0.441	12.33
34)	C	Hexachlorobuta...	0.208	0.267	0.224	0.212	0.202	0.194	0.182	0.213	12.98
35)		Caprolactam	0.079	0.106	0.097	0.100	0.096	0.095	0.100	0.096	8.67
36)	C	4-Chloro-3-met...	0.317	0.403	0.352	0.339	0.321	0.316	0.300	0.335	10.21
37)		2-Methylnaphth...	0.788	0.928	0.791	0.714	0.681	0.651	0.608	0.737	14.61
38)		1-Methylnaphth...	0.730	0.881	0.741	0.672	0.637	0.613	0.570	0.692	14.96

Method Path : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\
Method File : 8270-BF032321.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.631	0.785	0.616	0.564	0.543	0.532	0.496	0.595	16.15
41)	P	Hexachlorocycl...	0.278	0.404	0.330	0.337	0.335	0.332	0.311	0.332	11.37
42)	S	2,4,6-Tribromo...	0.191	0.262	0.224	0.230	0.225	0.224	0.209	0.224	9.57
43)	C	2,4,6-Trichlor...	0.375	0.518	0.426	0.410	0.406	0.404	0.378	0.417	11.55
44)		2,4,5-Trichlor...	0.404	0.550	0.439	0.433	0.431	0.419	0.389	0.438	11.99
45)	S	2-Fluorobiphenyl	1.548	1.840	1.439	1.239	1.189	1.145		1.400	18.97
46)		1,1'-Biphenyl	1.663	2.052	1.623	1.445	1.400	1.342	1.264	1.541	17.34
47)		2-Chloronaphth...	1.367	1.659	1.306	1.178	1.142	1.119	1.032	1.257	16.74
48)		2-Nitroaniline	0.248	0.413	0.368	0.414	0.412	0.416	0.399	0.382	16.08
49)		Acenaphthylene	2.102	2.598	2.042	1.868	1.790	1.737	1.630	1.967	16.48
50)		Dimethylphthalate	1.464	1.765	1.449	1.381	1.337	1.316	1.232	1.421	12.07
51)		2,6-Dinitrotol...	0.210	0.352	0.308	0.311	0.305	0.305	0.286	0.297	14.51
52)	C	Acenaphthene	1.310	1.561	1.241	1.167	1.146	1.113	1.056	1.228	13.76
53)		3-Nitroaniline	0.238	0.365	0.315	0.331	0.323	0.318	0.305	0.313	12.16
54)	P	2,4-Dinitrophenol		0.067	0.073	0.116	0.128	0.141	0.142	0.111	29.95
55)		Dibenzofuran	1.928	2.299	1.850	1.671	1.597	1.548	1.462	1.765	16.26
56)	P	4-Nitrophenol	0.178	0.292	0.248	0.267	0.264	0.265	0.255	0.253	14.06
57)		2,4-Dinitrotol...	0.231	0.405	0.371	0.401	0.400	0.401	0.384	0.370	16.91
58)		Fluorene	1.496	1.735	1.382	1.248	1.196	1.171	1.100	1.332	16.71
59)		2,3,4,6-Tetrac...	0.318	0.428	0.358	0.363	0.354	0.349	0.332	0.357	9.78
60)		Diethylphthalate	1.395	1.708	1.415	1.383	1.328	1.284	1.194	1.387	11.60
61)		4-Chlorophenyl...	0.698	0.852	0.665	0.620	0.599	0.588	0.536	0.651	15.84
62)		4-Nitroaniline	0.241	0.330	0.283	0.309	0.306	0.308	0.301	0.297	9.50
63)		Azobenzene	1.594	1.923	1.570	1.479	1.426	1.390	1.299	1.526	13.28
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.067	0.076	0.108	0.109	0.114	0.110	0.097	20.69
66)	c	n-Nitrosodiphe...	0.706	0.856	0.710	0.649	0.614	0.595	0.560	0.670	14.76
67)		4-Bromophenyl-...	0.237	0.286	0.252	0.236	0.224	0.219	0.204	0.237	11.18
68)		Hexachlorobenzene	0.274	0.321	0.271	0.257	0.242	0.239	0.223	0.261	12.37
69)		Atrazine	0.211	0.259	0.217	0.220	0.207	0.195	0.183	0.213	11.26
70)	C	Pentachlorophenol	0.108	0.174	0.162	0.170	0.160	0.162	0.155	0.156	14.18
71)		Phenanthrene	1.213	1.435	1.190	1.076	0.988	0.948	0.889	1.106	17.08
72)		Anthracene	1.206	1.447	1.199	1.086	0.993	0.956	0.897	1.112	16.98
73)		Carbazole	1.132	1.374	1.098	1.042	0.938	0.910	0.860	1.051	16.59
74)		Di-n-butylphth...	1.159	1.497	1.293	1.216	1.120	1.092	0.996	1.196	13.57
75)	C	Fluoranthene	1.275	1.572	1.239	1.190	1.065	1.049	0.989	1.197	16.41
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.678	0.752	0.440	0.605	0.551	0.549		0.596	18.33
78)		Pyrene	1.666	2.091	1.856	1.695	1.642	1.624	1.503	1.725	11.14
79)	S	Terphenyl-d14	1.180	1.425	1.301	1.156	1.111	1.093	0.994	1.180	12.09
80)		Butylbenzylpht...	0.441	0.664	0.668	0.719	0.680	0.687	0.620	0.640	14.45
81)		Benzo(a)anthra...	1.357	1.658	1.376	1.301	1.190	1.174	1.107	1.309	14.02
82)		3,3'-Dichlorob...	0.391	0.537	0.436	0.460	0.406	0.392	0.359	0.426	13.85
83)		Chrysene	1.395	1.695	1.412	1.349	1.252	1.218	1.140	1.351	13.36
84)		Bis(2-ethylhex...	0.693	0.930	0.885	0.917	0.848	0.861	0.762	0.842	10.19
85)	c	Di-n-octyl pht...	0.981	1.445	1.385	1.504	1.359	1.402	1.245	1.332	13.07

Method Path : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\
Method File : 8270-BF032321.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.075	1.396	1.271	1.151	1.257	1.238	1.313	1.243	8.44
88)		Benzo(b)fluora...	1.284	1.629	1.440	1.433	1.307	1.253	1.313	1.380	9.53
89)		Benzo(k)fluora...	1.306	1.664	1.323	1.299	1.230	1.215	1.095	1.304	13.54
90)	C	Benzo(a)pyrene	1.107	1.444	1.227	1.199	1.135	1.130	1.096	1.191	10.17
91)		Dibenzo(a,h)an...	0.915	1.198	1.089	0.994	1.062	1.030	1.098	1.055	8.42
92)		Benzo(g,h,i)pe...	0.928	1.190	1.082	0.948	1.052	1.041	1.152	1.056	9.14

(#) = Out of Range

Response Factor Report GC/MS Ins

Method Path : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\
Method File : 8270-BG031821.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Mar 18 16:38:55 2021
Response Via : Initial Calibration

Calibration Files
5 =BG048412.D 10 =BG048413.D 20 =BG048414.D 40 =BG048415.D 50 =BG048416.D 60 =BG048417.D 80 =BG048418.D

		Compound	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------								
2)		1,4-Dioxane	0.611	0.582	0.529	0.478	0.474	0.471	0.427	0.510	13.03
3)		Pyridine	1.296	1.775	1.511	1.362	1.392	1.372	1.250	1.422	12.34
4)		n-Nitrosodimet...	0.766	1.007	0.866	0.780	0.814	0.812	0.741	0.827	10.78
5)	S	2-Fluorophenol	1.178	1.518	1.285	1.133	1.176	1.139	1.038	1.209	12.77
6)		Aniline	2.134	2.576	2.162	1.989	2.010	1.917	1.782	2.081	12.15
7)	S	Phenol-d6	1.710	2.154	1.901	1.692	1.725	1.645	1.493	1.760	12.02
8)		2-Chlorophenol	1.235	1.528	1.360	1.201	1.238	1.174	1.092	1.261	11.30
9)		Benzaldehyde		1.558	1.212	0.970	0.944	0.863		1.109	25.46
10)	C	Phenol	1.882	2.248	1.905	1.695	1.732	1.678	1.483	1.803	13.39
11)		bis(2-Chloroet...	1.263	1.546	1.346	1.207	1.243	1.162	1.079	1.264	11.85
12)		1,3-Dichlorobe...	1.480	1.904	1.555	1.433	1.448	1.403	1.279	1.500	13.12
13)	C	1,4-Dichlorobe...	1.572	1.806	1.586	1.382	1.442	1.379	1.259	1.489	12.11
14)		1,2-Dichlorobe...	1.419	1.781	1.545	1.365	1.349	1.332	1.210	1.429	12.94
15)		Benzyl Alcohol	1.442	1.910	1.678	1.495	1.558	1.477	1.376	1.562	11.55
16)		2,2'-oxybis(1-...	1.453	1.805	1.551	1.377	1.396	1.322	1.210	1.445	13.20
17)		2-Methylphenol	1.173	1.389	1.222	1.058	1.103	1.083	0.976	1.143	11.72
18)		Hexachloroethane	0.556	0.706	0.623	0.529	0.573	0.530	0.494	0.573	12.45
19)	P	n-Nitroso-di-n...	1.275	1.615	1.404	1.265	1.271	1.218	1.095	1.306	12.54
20)		3+4-Methylphenols	1.579	1.884	1.670	1.486	1.523	1.486	1.337	1.566	11.03
21)	I	Naphthalene-d8	----------ISTD----------								
22)		Acetophenone	0.552	0.654	0.587	0.547	0.545	0.535	0.516	0.562	8.11
23)	S	Nitrobenzene-d5	0.470	0.586	0.516	0.488	0.488	0.484	0.469	0.500	8.19
24)		Nitrobenzene	0.496	0.642	0.557	0.526	0.523	0.505	0.502	0.536	9.50
25)		Isophorone	0.903	1.143	1.006	0.941	0.924	0.900	0.884	0.957	9.53
26)	C	2-Nitrophenol	0.179	0.239	0.209	0.200	0.202	0.197	0.199	0.204	8.87
27)		2,4-Dimethylph...	0.288	0.369	0.326	0.309	0.320	0.306	0.306	0.318	8.02
28)		bis(2-Chloroet...	0.425	0.519	0.441	0.414	0.421	0.412	0.406	0.434	8.99
29)	C	2,4-Dichloroph...	0.327	0.419	0.392	0.370	0.364	0.358	0.353	0.369	8.00
30)		1,2,4-Trichlor...	0.428	0.517	0.469	0.439	0.434	0.418	0.416	0.446	8.06
31)		Naphthalene	1.061	1.310	1.151	1.104	1.064	1.051	1.021	1.109	8.85
32)		Benzoic acid	0.203	0.255	0.247	0.248	0.257	0.260	0.261	0.247	8.18
33)		4-Chloroaniline	0.458	0.556	0.486	0.466	0.456	0.445	0.450	0.474	8.12
34)	C	Hexachlorobuta...	0.338	0.416	0.362	0.353	0.341	0.332	0.332	0.353	8.39
35)		Caprolactam	0.126	0.156	0.139	0.127	0.127	0.124	0.122	0.132	9.27
36)	C	4-Chloro-3-met...	0.408	0.496	0.437	0.418	0.417	0.414	0.406	0.428	7.38
37)		2-Methylnaphth...	0.804	1.016	0.873	0.826	0.826	0.790	0.789	0.846	9.47
38)		1-Methylnaphth...	0.755	0.959	0.815	0.778	0.770	0.751	0.743	0.796	9.52

Method Path : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\
Method File : 8270-BG031821.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.738	0.837	0.755	0.727	0.691	0.704	0.660	0.730	7.75
41)	P	Hexachlorocycl...	0.424	0.548	0.496	0.476	0.458	0.464	0.440	0.472	8.64
42)	S	2,4,6-Tribromo...	0.303	0.381	0.344	0.319	0.311	0.318	0.300	0.325	8.79
43)	C	2,4,6-Trichlor...	0.449	0.554	0.521	0.507	0.483	0.487	0.464	0.495	7.16
44)		2,4,5-Trichlor...	0.519	0.633	0.566	0.550	0.518	0.532	0.495	0.545	8.30
45)	S	2-Fluorobiphenyl	1.393	1.657	1.483	1.382	1.318	1.298	1.202	1.390	10.56
46)		1,1'-Biphenyl	1.466	1.661	1.527	1.411	1.361	1.355	1.266	1.435	9.07
47)		2-Chloronaphth...	1.160	1.340	1.223	1.155	1.094	1.101	1.027	1.157	8.78
48)		2-Nitroaniline	0.367	0.480	0.443	0.437	0.429	0.433	0.409	0.428	8.00
49)		Acenaphthylene	1.910	2.207	1.981	1.854	1.756	1.763	1.646	1.874	9.81
50)		Dimethylphthalate	1.622	1.970	1.733	1.607	1.505	1.533	1.423	1.628	11.06
51)		2,6-Dinitrotol...	0.310	0.395	0.371	0.356	0.347	0.346	0.327	0.350	7.98
52)	C	Acenaphthene	1.204	1.431	1.330	1.263	1.213	1.225	1.151	1.259	7.44
53)		3-Nitroaniline	0.298	0.381	0.366	0.330	0.322	0.332	0.319	0.335	8.44
54)	P	2,4-Dinitrophenol	0.185	0.215	0.215	0.220	0.214	0.226	0.222	0.214	6.23
55)		Dibenzofuran	1.898	2.258	1.972	1.843	1.749	1.769	1.641	1.876	10.65
56)	P	4-Nitrophenol	0.291	0.341	0.327	0.293	0.283	0.289	0.277	0.300	8.07
57)		2,4-Dinitrotol...	0.431	0.547	0.516	0.511	0.489	0.511	0.478	0.497	7.39
58)		Fluorene	1.577	1.886	1.645	1.559	1.471	1.488	1.395	1.574	10.13
59)		2,3,4,6-Tetrac...	0.510	0.632	0.566	0.540	0.500	0.523	0.492	0.538	9.10
60)		Diethylphthalate	1.503	1.982	1.698	1.566	1.482	1.502	1.404	1.591	12.24
61)		4-Chlorophenyl...	0.871	1.053	0.957	0.897	0.866	0.869	0.827	0.906	8.38
62)		4-Nitroaniline	0.357	0.422	0.383	0.365	0.346	0.362	0.336	0.367	7.69
63)		Azobenzene	1.729	2.095	1.852	1.703	1.618	1.629	1.496	1.732	11.22
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...	0.102	0.129	0.128	0.129	0.131	0.131	0.131	0.126	8.59
66)	c	n-Nitrosodiphe...	0.571	0.692	0.608	0.575	0.546	0.535	0.529	0.579	9.75
67)		4-Bromophenyl-...	0.243	0.300	0.264	0.248	0.239	0.240	0.230	0.252	9.29
68)		Hexachlorobenzene	0.260	0.324	0.285	0.264	0.253	0.251	0.252	0.270	9.89
69)		Atrazine	0.234	0.287	0.250	0.230	0.213	0.214	0.204	0.233	12.20
70)	C	Pentachlorophenol	0.151	0.202	0.186	0.184	0.177	0.180	0.176	0.179	8.43
71)		Phenanthrene	1.073	1.263	1.126	1.044	0.987	0.976	0.927	1.056	10.65
72)		Anthracene	1.030	1.286	1.108	1.037	0.983	0.968	0.926	1.048	11.42
73)		Carbazole	1.031	1.228	1.063	0.976	0.911	0.918	0.870	1.000	12.16
74)		Di-n-butylphth...	1.090	1.366	1.190	1.096	1.020	1.017	0.964	1.106	12.25
75)	C	Fluoranthene	1.448	1.754	1.517	1.377	1.281	1.281	1.190	1.407	13.42
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.607	0.713	0.621	0.598	0.543	0.513		0.599	11.63
78)		Pyrene	1.366	1.676	1.457	1.362	1.306	1.255	1.195	1.374	11.47
79)	S	Terphenyl-d14	1.122	1.375	1.160	1.065	0.984	0.948		1.109	13.80
80)		Butylbenzylpht...	0.476	0.580	0.519	0.485	0.459	0.457	0.442	0.488	9.71
81)		Benzo(a)anthra...	1.410	1.662	1.487	1.363	1.300	1.273	1.214	1.387	10.90
82)		3,3'-Dichlorob...	0.507	0.611	0.532	0.486	0.462	0.464	0.442	0.501	11.43
83)		Chrysene	1.363	1.618	1.410	1.304	1.227	1.222	1.165	1.330	11.49
84)		Bis(2-ethylhex...	0.646	0.797	0.710	0.671	0.631	0.647	0.619	0.675	9.15
85)	c	Di-n-octyl pht...	1.102	1.314	1.187	1.130	1.064	1.080	1.029	1.130	8.49

Method Path : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\
Method File : 8270-BG031821.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.470	1.788	1.612	1.514	1.472	1.437	1.384	1.525	8.88
88)		Benzo(b)fluora...	1.325	1.713	1.496	1.400	1.343	1.328	1.262	1.409	10.83
89)		Benzo(k)fluora...	1.308	1.603	1.418	1.322	1.281	1.224	1.153	1.330	10.97
90)	C	Benzo(a)pyrene	1.232	1.524	1.377	1.284	1.237	1.196	1.146	1.285	9.93
91)		Dibenzo(a,h)an...	1.267	1.512	1.377	1.300	1.262	1.215	1.174	1.301	8.67
92)		Benzo(g,h,i)pe...	1.222	1.472	1.334	1.253	1.219	1.183	1.154	1.262	8.61

(#) = Out of Range

Response Factor Report gcms1

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
Method File : 8270-BM032621.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Mar 25 16:05:40 2021
Response Via : Initial Calibration

Calibration Files
5 =BM029216.D 10 =BM029217.D 20 =BM029218.D 40 =BM029219.D 50 =BM029220.D 60 =BM029221.D 80 =BM029222.D

		Compound	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------								
2)		1,4-Dioxane	0.535	0.582	0.575	0.517	0.500	0.483	0.499	0.527	7.31
3)		Pyridine	1.078	1.186	1.356	1.373	1.299	1.269	1.337	1.271	8.31
4)		n-Nitrosodimet...	0.405	0.535	0.580	0.629	0.614	0.618	0.613	0.571	13.98
5)	S	2-Fluorophenol	1.084	1.197	1.257	1.170	1.140	1.112	1.162	1.160	4.89
6)		Aniline	1.698	1.806	1.920	1.856	1.780	1.757	1.810	1.804	3.94
7)	S	Phenol-d6	1.534	1.698	1.777	1.716	1.633	1.620	1.677	1.665	4.69
8)		2-Chlorophenol	1.228	1.381	1.415	1.316	1.274	1.243	1.308	1.309	5.28
9)		Benzaldehyde	1.100	1.173	1.197	1.046	0.952	0.926	0.924	1.046	11.05
10)	C	Phenol	1.538	1.675	1.789	1.685	1.608	1.575	1.644	1.645	5.03
11)		bis(2-Chloroet...	1.075	1.186	1.305	1.222	1.134	1.141	1.177	1.177	6.20
12)		1,3-Dichlorobe...	1.472	1.539	1.587	1.453	1.402	1.380	1.418	1.465	5.14
13)	C	1,4-Dichlorobe...	1.481	1.573	1.607	1.482	1.422	1.395	1.436	1.485	5.30
14)		1,2-Dichlorobe...	1.413	1.502	1.543	1.424	1.371	1.348	1.389	1.427	4.96
15)		Benzyl Alcohol	1.070	1.177	1.280	1.269	1.198	1.194	1.243	1.205	5.90
16)		2,2'-oxybis(1-...	1.820	1.912	1.968	1.843	1.692	1.673	1.725	1.805	6.24
17)		2-Methylphenol	0.960	1.071	1.140	1.099	1.033	1.030	1.066	1.057	5.41
18)		Hexachloroethane	0.520	0.547	0.587	0.546	0.518	0.519	0.540	0.540	4.57
19)	P	n-Nitroso-di-n...	0.972	1.072	1.120	1.159	1.053	1.048	1.095	1.074	5.53
20)		3+4-Methylphenols	1.215	1.391	1.514	1.491	1.413	1.409	1.469	1.415	7.01
21)	I	Naphthalene-d8	----------ISTD----------								
22)		Acetophenone	0.476	0.493	0.525	0.503	0.489	0.491	0.528	0.501	3.86
23)	S	Nitrobenzene-d5	0.359	0.397	0.430	0.421	0.415	0.416	0.445	0.412	6.71
24)		Nitrobenzene	0.392	0.427	0.451	0.435	0.426	0.423	0.454	0.430	4.79
25)		Isophorone	0.599	0.658	0.735	0.743	0.717	0.722	0.780	0.708	8.54
26)	C	2-Nitrophenol	0.110	0.123	0.149	0.159	0.157	0.162		0.143	14.98
27)		2,4-Dimethylph...	0.244	0.267	0.293	0.280	0.271	0.275	0.294	0.275	6.29
28)		bis(2-Chloroet...	0.350	0.362	0.392	0.383	0.365	0.367	0.400	0.374	4.82
29)	C	2,4-Dichloroph...	0.254	0.281	0.310	0.310	0.301	0.304	0.331	0.299	8.26
30)		1,2,4-Trichlor...	0.320	0.353	0.357	0.333	0.326	0.332	0.353	0.339	4.42
31)		Naphthalene	1.007	1.068	1.122	1.046	1.017	1.025	1.096	1.054	4.07
32)		Benzoic acid		0.117	0.145	0.178	0.174	0.183		0.160	17.47
33)		4-Chloroaniline	0.362	0.399	0.435	0.431	0.415	0.418	0.456	0.417	7.21
34)	C	Hexachlorobuta...	0.189	0.201	0.208	0.193	0.191	0.191	0.206	0.197	3.97
35)		Caprolactam		0.066	0.085	0.097	0.093	0.098	0.106	0.091	15.38
36)	C	4-Chloro-3-met...	0.262	0.294	0.331	0.338	0.321	0.330	0.358	0.319	9.88
37)		2-Methylnaphth...	0.681	0.736	0.767	0.751	0.719	0.725	0.781	0.737	4.50
38)		1-Methylnaphth...	0.650	0.698	0.740	0.709	0.686	0.689	0.737	0.701	4.44

Response Factor Report gcms1

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
Method File : 8270-BM032621.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.540	0.562	0.587	0.546	0.548	0.550	0.590	0.560	3.60
41)	P	Hexachlorocycl...	0.269	0.302	0.320	0.306	0.308	0.311	0.337	0.308	6.71
42)	S	2,4,6-Tribromo...	0.139	0.162	0.189	0.198	0.191	0.198	0.218	0.185	14.22
43)	C	2,4,6-Trichlor...	0.300	0.332	0.380	0.378	0.372	0.379	0.414	0.365	10.22
44)		2,4,5-Trichlor...	0.339	0.382	0.420	0.415	0.413	0.419	0.451	0.406	8.77
45)	S	2-Fluorobiphenyl	1.337	1.430	1.499	1.386	1.370	1.378	1.472	1.410	4.16
46)		1,1'-Biphenyl	1.441	1.551	1.626	1.505	1.473	1.472	1.574	1.520	4.35
47)		2-Chloronaphth...	1.138	1.222	1.258	1.184	1.171	1.167	1.241	1.197	3.66
48)		2-Nitroaniline	0.248	0.299	0.354	0.379	0.372	0.387	0.418	0.351	16.51
49)		Acenaphthylene	1.603	1.778	1.920	1.846	1.815	1.826	1.961	1.821	6.32
50)		Dimethylphthalate	1.288	1.382	1.474	1.417	1.352	1.385	1.486	1.398	4.93
51)		2,6-Dinitrotol...	0.228	0.280	0.319	0.317	0.309	0.317	0.345	0.302	12.44
52)	C	Acenaphthene	1.096	1.158	1.224	1.160	1.121	1.135	1.206	1.157	3.93
53)		3-Nitroaniline	0.225	0.267	0.311	0.325	0.322	0.334	0.359	0.306	14.82
54)	P	2,4-Dinitrophenol		0.105	0.133	0.159	0.156	0.166	0.187	0.151	19.05
55)		Dibenzofuran	1.718	1.843	1.941	1.819	1.762	1.768	1.895	1.821	4.34
56)	P	4-Nitrophenol		0.221	0.273	0.291	0.281	0.295	0.317	0.280	11.54
57)		2,4-Dinitrotol...	0.267	0.343	0.415	0.430	0.420	0.432	0.475	0.398	17.50
58)		Fluorene	1.344	1.429	1.546	1.497	1.442	1.471	1.604	1.476	5.70
59)		2,3,4,6-Tetrac...	0.278	0.312	0.346	0.340	0.336	0.345	0.370	0.332	8.89
60)		Diethylphthalate	1.210	1.320	1.456	1.420	1.352	1.385	1.494	1.377	6.87
61)		4-Chlorophenyl...	0.621	0.668	0.717	0.685	0.666	0.676	0.735	0.681	5.42
62)		4-Nitroaniline	0.220	0.258	0.324	0.357	0.345	0.364	0.389	0.322	18.95
63)		Azobenzene	1.331	1.495	1.678	1.642	1.565	1.602	1.704	1.574	8.14
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.082	0.105	0.117	0.114	0.118	0.133	0.111	15.21
66)	c	n-Nitrosodiphe...	0.572	0.638	0.683	0.650	0.632	0.630	0.677	0.640	5.75
67)		4-Bromophenyl-...	0.165	0.182	0.190	0.185	0.180	0.182	0.200	0.183	5.83
68)		Hexachlorobenzene	0.201	0.219	0.228	0.216	0.210	0.210	0.225	0.216	4.36
69)		Atrazine	0.162	0.187	0.209	0.217	0.206	0.207	0.227	0.202	10.59
70)	C	Pentachlorophenol		0.109	0.131	0.139	0.131	0.137	0.151	0.133	10.49
71)		Phenanthrene	1.076	1.164	1.233	1.169	1.129	1.126	1.220	1.160	4.76
72)		Anthracene	1.008	1.091	1.184	1.153	1.116	1.116	1.220	1.127	6.10
73)		Carbazole	0.962	1.067	1.170	1.145	1.102	1.110	1.206	1.109	7.18
74)		Di-n-butylphth...	0.835	0.938	1.107	1.162	1.082	1.120	1.241	1.069	12.92
75)	C	Fluoranthene	1.093	1.242	1.354	1.323	1.267	1.288	1.402	1.281	7.73
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine		0.476	0.600	0.585	0.697	0.596	0.513	0.578	13.36
78)		Pyrene	1.242	1.375	1.424	1.350	1.326	1.341	1.420	1.354	4.59
79)	S	Terphenyl-d14	0.910	0.992	1.034	1.009	0.968	0.990	1.066	0.996	4.97
80)		Butylbenzylpht...	0.325	0.376	0.462	0.504	0.477	0.502	0.556	0.457	17.50
81)		Benzo(a)anthra...	1.168	1.303	1.376	1.313	1.287	1.307	1.382	1.305	5.44
82)		3,3'-Dichlorob...	0.305	0.358	0.409	0.412	0.400	0.408	0.438	0.390	11.38
83)		Chrysene	1.219	1.325	1.374	1.299	1.273	1.288	1.365	1.306	4.13
84)		Bis(2-ethylhex...	0.439	0.538	0.680	0.738	0.683	0.722	0.803	0.658	19.16
85)	c	Di-n-octyl pht...	0.736	0.824	1.059	1.205	1.121	1.185	1.329	1.066	20.04

Response Factor Report gcms1

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
Method File : 8270-BM032621.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.256	1.410	1.534	1.494	1.467	1.475	1.605	1.463	7.49
88)		Benzo(b)fluora...	1.145	1.274	1.357	1.341	1.268	1.324	1.399	1.301	6.36
89)		Benzo(k)fluora...	1.132	1.250	1.336	1.264	1.272	1.222	1.373	1.264	6.16
90)	C	Benzo(a)pyrene	1.010	1.133	1.231	1.208	1.186	1.184	1.300	1.179	7.64
91)		Dibenzo(a,h)an...	1.081	1.214	1.304	1.270	1.254	1.262	1.380	1.252	7.29
92)		Benzo(g,h,i)pe...	1.090	1.215	1.301	1.231	1.222	1.219	1.310	1.227	5.89

(#) = Out of Range

Response Factor Report MSBNA_P

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
Method File : 8270E-BP032321.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Mar 24 10:16:52 2021
Response Via : Initial Calibration

Calibration Files
5 =BP005021.D 10 =BP005022.D 20 =BP005023.D 40 =BP005024.D 50 =BP005025.D 60 =BP005026.D 80 =BP005027.D

		Compound	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------								
2)		1,4-Dioxane	0.601	0.706	0.589	0.525	0.535	0.518	0.486	0.566	13.03
3)		Pyridine	1.081	1.582	1.459	1.488	1.455	1.436	1.349	1.407	11.32
4)		n-Nitrosodimet...	0.451	0.570	0.525	0.509	0.499	0.496	0.472	0.503	7.58
5)	S	2-Fluorophenol	1.252	1.564	1.318	1.281	1.252	1.262	1.167	1.300	9.63
6)		Aniline	2.019	2.509	2.137	2.118	2.034	2.021	1.928	2.110	8.98
7)	S	Phenol-d6	1.720	2.212	1.880	1.869	1.821	1.807	1.721	1.862	8.98
8)		2-Chlorophenol	1.324	1.665	1.386	1.374	1.321	1.306	1.220	1.371	10.25
9)		Benzaldehyde		1.314	0.912	0.891	0.840	0.783		0.948	22.19
10)	C	Phenol	1.840	2.286	1.905	1.919	1.834	1.835	1.735	1.908	9.28
11)		bis(2-Chloroet...	1.313	1.740	1.418	1.396	1.338	1.300	1.272	1.397	11.46
12)		1,3-Dichlorobe...	1.476	1.907	1.532	1.520	1.441	1.441	1.344	1.523	11.84
13)	C	1,4-Dichlorobe...	1.539	1.899	1.573	1.536	1.448	1.461	1.367	1.546	11.03
14)		1,2-Dichlorobe...	1.460	1.836	1.482	1.459	1.412	1.408	1.324	1.483	11.05
15)		Benzyl Alcohol	1.272	1.680	1.435	1.483	1.413	1.414	1.357	1.436	8.81
16)		2,2'-oxybis(1-...	0.988	1.233	1.031	1.034	0.979	0.986	0.921	1.025	9.71
17)		2-Methylphenol	1.125	1.443	1.236	1.232	1.174	1.195	1.119	1.218	9.00
18)		Hexachloroethane	0.601	0.717	0.585	0.580	0.562	0.552	0.528	0.589	10.39
19)	P	n-Nitroso-di-n...	1.087	1.504	1.187	1.240	1.182	1.133	1.121	1.208	11.60
20)		3+4-Methylphenols	1.491	2.028	1.670	1.716	1.584	1.612	1.537	1.663	10.70
21)	I	Naphthalene-d8	----------ISTD----------								
22)		Acetophenone	0.536	0.687	0.570	0.574	0.555	0.555	0.548	0.575	8.87
23)	S	Nitrobenzene-d5	0.439	0.528	0.477	0.469	0.452	0.450	0.448	0.466	6.54
24)		Nitrobenzene	0.485	0.567	0.504	0.487	0.472	0.467	0.458	0.491	7.45
25)		Isophorone	0.773	0.995	0.869	0.869	0.840	0.844	0.832	0.860	7.85
26)	C	2-Nitrophenol	0.165	0.206	0.192	0.195	0.190	0.196	0.190	0.191	6.67
27)		2,4-Dimethylph...	0.286	0.348	0.314	0.306	0.304	0.292	0.295	0.306	6.70
28)		bis(2-Chloroet...	0.395	0.499	0.440	0.447	0.431	0.425	0.411	0.435	7.57
29)	C	2,4-Dichloroph...	0.303	0.396	0.347	0.349	0.335	0.340	0.330	0.343	8.09
30)		1,2,4-Trichlor...	0.373	0.439	0.398	0.383	0.369	0.368	0.365	0.385	6.80
31)		Naphthalene	1.074	1.331	1.154	1.122	1.085	1.080	1.063	1.130	8.34
32)		Benzoic acid		0.212	0.200	0.240	0.242	0.228	0.242	0.227	7.88
33)		4-Chloroaniline	0.410	0.523	0.466	0.458	0.453	0.445	0.443	0.457	7.48
34)	C	Hexachlorobuta...	0.239	0.287	0.250	0.251	0.238	0.239	0.231	0.248	7.50
35)		Caprolactam	0.094	0.121	0.116	0.115	0.115	0.114	0.112	0.112	7.86
36)	C	4-Chloro-3-met...	0.357	0.470	0.433	0.421	0.412	0.403	0.402	0.414	8.29
37)		2-Methylnaphth...	0.766	0.964	0.834	0.822	0.778	0.779	0.767	0.816	8.65
38)		1-Methylnaphth...	0.720	0.884	0.777	0.775	0.739	0.730	0.727	0.765	7.52

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
Method File : 8270E-BP032321.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.621	0.777	0.617	0.648	0.629	0.644	0.623	0.651	8.69
41)	P	Hexachlorocycl...	0.284	0.390	0.341	0.366	0.367	0.366	0.366	0.354	9.65
42)	S	2,4,6-Tribromo...	0.230	0.308	0.252	0.261	0.259	0.257	0.258	0.261	8.97
43)	C	2,4,6-Trichlor...	0.390	0.513	0.445	0.458	0.452	0.450	0.443	0.450	7.96
44)		2,4,5-Trichlor...	0.430	0.559	0.475	0.490	0.497	0.491	0.472	0.488	7.92
45)	S	2-Fluorobiphenyl	1.415	1.719	1.452	1.465	1.443	1.442	1.414	1.478	7.29
46)		1,1'-Biphenyl	1.442	1.825	1.491	1.510	1.479	1.486	1.445	1.525	8.81
47)		2-Chloronaphth...	1.182	1.457	1.224	1.210	1.217	1.216	1.186	1.242	7.75
48)		2-Nitroaniline	0.303	0.458	0.380	0.407	0.408	0.410	0.403	0.396	11.86
49)		Acenaphthylene	1.774	2.221	1.922	1.926	1.914	1.894	1.866	1.931	7.16
50)		Dimethylphthalate	1.442	1.813	1.539	1.507	1.516	1.496	1.470	1.540	8.08
51)		2,6-Dinitrotol...	0.338	0.416	0.354	0.365	0.366	0.351	0.351	0.363	7.02
52)	C	Acenaphthene	1.137	1.376	1.170	1.173	1.175	1.146	1.141	1.188	7.10
53)		3-Nitroaniline	0.279	0.368	0.320	0.349	0.348	0.341	0.334	0.334	8.52
54)	P	2,4-Dinitrophenol		0.211	0.199	0.226	0.224	0.227	0.233	0.220	5.68
55)		Dibenzofuran	1.851	2.268	1.924	1.914	1.914	1.899	1.863	1.948	7.39
56)	P	4-Nitrophenol	0.195	0.288	0.282	0.288	0.290	0.289	0.286	0.274	12.70
57)		2,4-Dinitrotol...	0.402	0.527	0.470	0.492	0.498	0.486	0.482	0.479	8.06
58)		Fluorene	1.477	1.809	1.535	1.561	1.542	1.539	1.545	1.573	6.84
59)		2,3,4,6-Tetrac...	0.412	0.529	0.425	0.456	0.445	0.442	0.440	0.450	8.38
60)		Diethylphthalate	1.378	1.749	1.485	1.520	1.482	1.473	1.461	1.507	7.64
61)		4-Chlorophenyl...	0.843	0.962	0.816	0.808	0.809	0.808	0.797	0.835	6.94
62)		4-Nitroaniline	0.244	0.376	0.336	0.360	0.368	0.359	0.361	0.343	13.29
63)		Azobenzene	1.597	2.034	1.689	1.714	1.697	1.671	1.654	1.722	8.28
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...	0.104	0.157	0.150	0.158	0.150	0.150	0.153	0.146	12.96
66)	c	n-Nitrosodiphe...	0.586	0.732	0.643	0.654	0.629	0.629	0.627	0.643	6.94
67)		4-Bromophenyl-...	0.209	0.268	0.237	0.240	0.225	0.220	0.223	0.232	8.28
68)		Hexachlorobenzene	0.248	0.306	0.260	0.266	0.247	0.249	0.249	0.261	8.09
69)		Atrazine	0.188	0.249	0.215	0.229	0.209	0.204	0.200	0.214	9.48
70)	C	Pentachlorophenol	0.141	0.191	0.174	0.176	0.175	0.174	0.172	0.172	8.67
71)		Phenanthrene	1.090	1.346	1.175	1.188	1.108	1.113	1.096	1.159	7.82
72)		Anthracene	1.018	1.312	1.161	1.153	1.097	1.098	1.090	1.133	8.14
73)		Carbazole	0.957	1.217	1.092	1.086	1.039	1.036	1.023	1.064	7.61
74)		Di-n-butylphth...	0.951	1.315	1.157	1.227	1.179	1.177	1.193	1.171	9.44
75)	C	Fluoranthene	1.245	1.581	1.412	1.382	1.315	1.322	1.291	1.364	8.11
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.439	0.499	0.344	0.513	0.439	0.429	0.408	0.439	12.89
78)		Pyrene	1.228	1.589	1.370	1.410	1.343	1.386	1.294	1.374	8.20
79)	S	Terphenyl-d14	1.005	1.269	1.089	1.126	1.064	1.104	1.034	1.099	7.80
80)		Butylbenzylpht...	0.386	0.545	0.511	0.550	0.528	0.538	0.511	0.510	11.10
81)		Benzo(a)anthra...	1.248	1.599	1.395	1.371	1.325	1.328	1.246	1.359	8.82
82)		3,3'-Dichlorob...	0.388	0.521	0.458	0.480	0.459	0.462	0.429	0.457	9.06
83)		Chrysene	1.246	1.549	1.365	1.348	1.295	1.306	1.226	1.334	8.05
84)		Bis(2-ethylhex...	0.574	0.795	0.735	0.807	0.773	0.786	0.763	0.748	10.71
85)	c	Di-n-octyl pht...	0.984	1.379	1.253	1.337	1.295	1.305	1.272	1.261	10.22

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
Method File : 8270E-BP032321.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.338	1.746	1.528	1.516	1.476	1.468	1.426	1.500	8.39
88)		Benzo(b)fluora...	1.287	1.649	1.421	1.431	1.369	1.421	1.365	1.420	7.92
89)		Benzo(k)fluora...	1.274	1.604	1.381	1.392	1.355	1.269	1.252	1.361	8.91
90)	C	Benzo(a)pyrene	1.155	1.504	1.273	1.293	1.251	1.232	1.207	1.273	8.73
91)		Dibenzo(a,h)an...	1.146	1.507	1.311	1.315	1.278	1.275	1.245	1.297	8.39
92)		Benzo(g,h,i)pe...	1.117	1.462	1.268	1.272	1.238	1.212	1.190	1.251	8.56

(#) = Out of Range

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: M1770 SAS No.: M1770 SDG No.: M1770

Instrument ID: BNA_F Calibration Date/Time: 03/24/2021 11:52

Lab File ID: BF123434.D Init. Calib. Date(s): 03/23/2021 03/23/2021

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:46 14:59

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.223	1.181		-3.4	
Benzaldehyde	0.891	0.828		-7.1	
Phenol-d6	1.627	1.628		0.1	
Phenol	1.670	1.682		0.7	20.0
bis(2-Chloroethyl)ether	1.332	1.365		2.5	
2-Chlorophenol	1.348	1.358		0.7	
2-Methylphenol	1.108	1.151		3.9	
2,2-oxybis(1-Chloropropane)	2.989	3.047		1.9	
Acetophenone	0.502	0.488		-2.8	
3+4-Methylphenols	1.381	1.386		0.4	
n-Nitroso-di-n-propylamine	1.053	1.127	0.050	7.0	
Nitrobenzene-d5	0.371	0.405		9.2	
Hexachloroethane	0.545	0.565		3.7	
Nitrobenzene	0.410	0.434		5.9	
Isophorone	0.797	0.840		5.4	
2-Nitrophenol	0.146	0.197		34.9	20.0
2,4-Dimethylphenol	0.326	0.334		2.5	
bis(2-Chloroethoxy)methane	0.429	0.450		4.9	
2,4-Dichlorophenol	0.320	0.336		5.0	20.0
Naphthalene	1.075	1.064		-1.0	
4-Chloroaniline	0.441	0.454		2.9	
Hexachlorobutadiene	0.213	0.220		3.3	20.0
Caprolactam	0.096	0.113		17.7	
4-Chloro-3-methylphenol	0.335	0.365		9.0	20.0
2-Methylnaphthalene	0.737	0.755		2.4	
Hexachlorocyclopentadiene	0.332	0.343	0.050	3.3	
2,4,6-Trichlorophenol	0.417	0.427		2.4	20.0
2-Fluorobiphenyl	1.400	1.251		-10.6	
2,4,5-Trichlorophenol	0.438	0.460		5.0	
1,1-Biphenyl	1.541	1.459		-5.3	
2-Chloronaphthalene	1.257	1.182		-6.0	
2-Nitroaniline	0.382	0.460		20.4	
Dimethylphthalate	1.421	1.467		3.2	
Acenaphthylene	1.967	1.866		-5.1	
2,6-Dinitrotoluene	0.297	0.341		14.8	
3-Nitroaniline	0.313	0.357		14.1	
Acenaphthene	1.228	1.250		1.8	20.0
2,4-Dinitrophenol	0.111	0.183	0.050	64.9	
4-Nitrophenol	0.253	0.298	0.050	17.8	
Dibenzofuran	1.765	1.717		-2.7	
2,4-Dinitrotoluene	0.370	0.463		25.1	

Form VII SV-1

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: M1770 SAS No.: M1770 SDG No.: M1770

Instrument ID: BNA_F Calibration Date/Time: 03/24/2021 11:52

Lab File ID: BF123434.D Init. Calib. Date(s): 03/23/2021 03/23/2021

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:46 14:59

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Diethylphthalate	1.387	1.446		4.3	
4-Chlorophenyl-phenylether	0.651	0.648		-0.5	
Fluorene	1.332	1.297		-2.6	
4-Nitroaniline	0.297	0.354		19.2	
4,6-Dinitro-2-methylphenol	0.097	0.143		47.4	
n-Nitrosodiphenylamine	0.670	0.650		-3.0	20.0
2,4,6-Tribromophenol	0.224	0.256		14.3	
4-Bromophenyl-phenylether	0.237	0.244		3.0	
Hexachlorobenzene	0.261	0.267		2.3	
Atrazine	0.213	0.234		9.9	
Pentachlorophenol	0.156	0.185		18.6	20.0
Phenanthrene	1.106	1.067		-3.5	
Anthracene	1.112	1.070		-3.8	
Carbazole	1.051	1.027		-2.3	
Di-n-butylphthalate	1.196	1.243		3.9	
Fluoranthene	1.197	1.191		-0.5	20.0
Pyrene	1.725	1.712		-0.8	
Terphenyl-d14	1.180	1.172		-0.7	
Butylbenzylphthalate	0.640	0.780		21.9	
3,3-Dichlorobenzidine	0.426	0.484		13.6	
Benzo(a)anthracene	1.309	1.325		1.2	
Chrysene	1.351	1.353		0.1	
Bis(2-ethylhexyl)phthalate	0.842	1.028		22.1	
Di-n-octyl phthalate	1.332	1.718		29.0	20.0
Benzo(b)fluoranthene	1.380	1.463		6.0	
Benzo(k)fluoranthene	1.304	1.366		4.8	
Benzo(a)pyrene	1.191	1.222		2.6	20.0
Indeno(1,2,3-cd)pyrene	1.243	1.194		-3.9	
Dibenzo(a,h)anthracene	1.055	1.020		-3.3	
Benzo(g,h,i)perylene	1.056	0.969		-8.2	
1,2,4,5-Tetrachlorobenzene	0.595	0.563		-5.4	
2,3,4,6-Tetrachlorophenol	0.357	0.393		10.1	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: M1770 SAS No.: M1770 SDG No.: M1770

Instrument ID: BNA_F Calibration Date/Time: 03/26/2021 09:48

Lab File ID: BF123477.D Init. Calib. Date(s): 03/23/2021 03/23/2021

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:46 14:59

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.223	1.199		-2.0	
Benzaldehyde	0.891	0.759		-14.8	
Phenol-d6	1.627	1.596		-1.9	
Phenol	1.670	1.767		5.8	20.0
bis(2-Chloroethyl)ether	1.332	1.224		-8.1	
2-Chlorophenol	1.348	1.305		-3.2	
2-Methylphenol	1.108	1.041		-6.0	
2,2-oxybis(1-Chloropropane)	2.989	2.518		-15.8	
Acetophenone	0.502	0.481		-4.2	
3+4-Methylphenols	1.381	1.303		-5.6	
n-Nitroso-di-n-propylamine	1.053	0.918	0.050	-12.8	
Nitrobenzene-d5	0.371	0.396		6.7	
Hexachloroethane	0.545	0.511		-6.2	
Nitrobenzene	0.410	0.424		3.4	
Isophorone	0.797	0.723		-9.3	
2-Nitrophenol	0.146	0.185		26.7	20.0
2,4-Dimethylphenol	0.326	0.305		-6.4	
bis(2-Chloroethoxy)methane	0.429	0.388		-9.6	
2,4-Dichlorophenol	0.320	0.316		-1.3	20.0
Naphthalene	1.075	1.039		-3.3	
4-Chloroaniline	0.441	0.438		-0.7	
Hexachlorobutadiene	0.213	0.203		-4.7	20.0
Caprolactam	0.096	0.100		4.2	
4-Chloro-3-methylphenol	0.335	0.338		0.9	20.0
2-Methylnaphthalene	0.737	0.700		-5.0	
Hexachlorocyclopentadiene	0.332	0.315	0.050	-5.1	
2,4,6-Trichlorophenol	0.417	0.415		-0.5	20.0
2-Fluorobiphenyl	1.400	1.267		-9.5	
2,4,5-Trichlorophenol	0.438	0.446		1.8	
1,1-Biphenyl	1.541	1.468		-4.7	
2-Chloronaphthalene	1.257	1.221		-2.9	
2-Nitroaniline	0.382	0.460		20.4	
Dimethylphthalate	1.421	1.336		-6.0	
Acenaphthylene	1.967	1.922		-2.3	
2,6-Dinitrotoluene	0.297	0.317		6.7	
3-Nitroaniline	0.313	0.358		14.4	
Acenaphthene	1.228	1.223		-0.4	20.0
2,4-Dinitrophenol	0.111	0.157	0.050	41.4	
4-Nitrophenol	0.253	0.300	0.050	18.6	
Dibenzofuran	1.765	1.689		-4.3	
2,4-Dinitrotoluene	0.370	0.425		14.9	

Form VII SV-1

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: M1770 SAS No.: M1770 SDG No.: M1770

Instrument ID: BNA_F Calibration Date/Time: 03/26/2021 09:48

Lab File ID: BF123477.D Init. Calib. Date(s): 03/23/2021 03/23/2021

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:46 14:59

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Diethylphthalate	1.387	1.272		-8.3	
4-Chlorophenyl-phenylether	0.651	0.608		-6.6	
Fluorene	1.332	1.307		-1.9	
4-Nitroaniline	0.297	0.351		18.2	
4,6-Dinitro-2-methylphenol	0.097	0.126		29.9	
n-Nitrosodiphenylamine	0.670	0.640		-4.5	20.0
2,4,6-Tribromophenol	0.224	0.237		5.8	
4-Bromophenyl-phenylether	0.237	0.224		-5.5	
Hexachlorobenzene	0.261	0.253		-3.1	
Atrazine	0.213	0.209		-1.9	
Pentachlorophenol	0.156	0.160		2.6	20.0
Phenanthrene	1.106	1.091		-1.4	
Anthracene	1.112	1.107		-0.4	
Carbazole	1.051	1.072		2.0	
Di-n-butylphthalate	1.196	1.061		-11.3	
Fluoranthene	1.197	1.234		3.1	20.0
Pyrene	1.725	1.524		-11.7	
Terphenyl-d14	1.180	0.976		-17.3	
Butylbenzylphthalate	0.640	0.573		-10.5	
3,3-Dichlorobenzidine	0.426	0.447		4.9	
Benzo(a)anthracene	1.309	1.304		-0.4	
Chrysene	1.351	1.318		-2.4	
Bis(2-ethylhexyl)phthalate	0.842	0.709		-15.8	
Di-n-octyl phthalate	1.332	1.252		-6.0	20.0
Benzo(b)fluoranthene	1.380	1.363		-1.2	
Benzo(k)fluoranthene	1.304	1.324		1.5	
Benzo(a)pyrene	1.191	1.172		-1.6	20.0
Indeno(1,2,3-cd)pyrene	1.243	1.102		-11.3	
Dibenzo(a,h)anthracene	1.055	0.926		-12.2	
Benzo(g,h,i)perylene	1.056	0.936		-11.4	
1,2,4,5-Tetrachlorobenzene	0.595	0.577		-3.0	
2,3,4,6-Tetrachlorophenol	0.357	0.375		5.0	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: M1770 SAS No.: M1770 SDG No.: M1770

Instrument ID: BNA_G Calibration Date/Time: 03/24/2021 10:40

Lab File ID: BG048485.D Init. Calib. Date(s): 03/18/2021 03/18/2021

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:34 15:37

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.209	1.242		2.7	
Benzaldehyde	1.109	0.976		-12.0	
Phenol-d6	1.760	1.828		3.9	
Phenol	1.803	1.839		2.0	20.0
bis(2-Chloroethyl)ether	1.264	1.298		2.7	
2-Chlorophenol	1.261	1.349		7.0	
2-Methylphenol	1.143	1.196		4.6	
2,2-oxybis(1-Chloropropane)	1.445	1.401		-3.0	
Acetophenone	0.562	0.566		0.7	
3+4-Methylphenols	1.566	1.737		10.9	
n-Nitroso-di-n-propylamine	1.306	1.369	0.050	4.8	
Nitrobenzene-d5	0.500	0.499		-0.2	
Hexachloroethane	0.573	0.606		5.8	
Nitrobenzene	0.536	0.525		-2.1	
Isophorone	0.957	0.959		0.2	
2-Nitrophenol	0.204	0.201		-1.5	20.0
2,4-Dimethylphenol	0.318	0.332		4.4	
bis(2-Chloroethoxy)methane	0.434	0.445		2.5	
2,4-Dichlorophenol	0.369	0.376		1.9	20.0
Naphthalene	1.109	1.106		-0.3	
4-Chloroaniline	0.474	0.491		3.6	
Hexachlorobutadiene	0.353	0.295		-16.4	20.0
Caprolactam	0.132	0.136		3.0	
4-Chloro-3-methylphenol	0.428	0.456		6.5	20.0
2-Methylnaphthalene	0.846	0.874		3.3	
Hexachlorocyclopentadiene	0.472	0.442	0.050	-6.4	
2,4,6-Trichlorophenol	0.495	0.498		0.6	20.0
2-Fluorobiphenyl	1.390	1.423		2.4	
2,4,5-Trichlorophenol	0.545	0.546		0.2	
1,1-Biphenyl	1.435	1.500		4.5	
2-Chloronaphthalene	1.157	1.252		8.2	
2-Nitroaniline	0.428	0.484		13.1	
Dimethylphthalate	1.628	1.643		0.9	
Acenaphthylene	1.874	1.993		6.3	
2,6-Dinitrotoluene	0.350	0.369		5.4	
3-Nitroaniline	0.335	0.363		8.4	
Acenaphthene	1.259	1.358		7.9	20.0
2,4-Dinitrophenol	0.214	0.235	0.050	9.8	
4-Nitrophenol	0.300	0.317	0.050	5.7	
Dibenzofuran	1.876	1.990		6.1	
2,4-Dinitrotoluene	0.497	0.526		5.8	

Form VII SV-1

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: M1770 SAS No.: M1770 SDG No.: M1770

Instrument ID: BNA_G Calibration Date/Time: 03/24/2021 10:40

Lab File ID: BG048485.D Init. Calib. Date(s): 03/18/2021 03/18/2021

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:34 15:37

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Diethylphthalate	1.591	1.759		10.6	
4-Chlorophenyl-phenylether	0.906	0.881		-2.8	
Fluorene	1.574	1.576		0.1	
4-Nitroaniline	0.367	0.385		4.9	
4,6-Dinitro-2-methylphenol	0.126	0.148		17.5	
n-Nitrosodiphenylamine	0.579	0.632		9.2	20.0
2,4,6-Tribromophenol	0.325	0.332		2.2	
4-Bromophenyl-phenylether	0.252	0.243		-3.6	
Hexachlorobenzene	0.270	0.269		-0.4	
Atrazine	0.233	0.241		3.4	
Pentachlorophenol	0.179	0.182		1.7	20.0
Phenanthrene	1.056	1.126		6.6	
Anthracene	1.048	1.111		6.0	
Carbazole	1.000	1.092		9.2	
Di-n-butylphthalate	1.106	1.249		12.9	
Fluoranthene	1.407	1.377		-2.1	20.0
Pyrene	1.374	1.564		13.8	
Terphenyl-d14	1.109	1.180		6.4	
Butylbenzylphthalate	0.488	0.612		25.4	
3,3-Dichlorobenzidine	0.501	0.569		13.6	
Benzo(a)anthracene	1.387	1.468		5.8	
Chrysene	1.330	1.406		5.7	
Bis(2-ethylhexyl)phthalate	0.675	0.867		28.4	
Di-n-octyl phthalate	1.130	1.468		29.9	20.0
Benzo(b)fluoranthene	1.409	1.427		1.3	
Benzo(k)fluoranthene	1.330	1.337		0.5	
Benzo(a)pyrene	1.285	1.319		2.6	20.0
Indeno(1,2,3-cd)pyrene	1.525	1.539		0.9	
Dibenzo(a,h)anthracene	1.301	1.330		2.2	
Benzo(g,h,i)perylene	1.262	1.286		1.9	
1,2,4,5-Tetrachlorobenzene	0.730	0.677		-7.3	
2,3,4,6-Tetrachlorophenol	0.538	0.511		-5.0	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: M1770 SAS No.: M1770 SDG No.: M1770

Instrument ID: BNA_G Calibration Date/Time: 03/25/2021 10:03

Lab File ID: BG048495.D Init. Calib. Date(s): 03/18/2021 03/18/2021

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:34 15:37

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.209	1.233		2.0	
Benzaldehyde	1.109	0.944		-14.9	
Phenol-d6	1.760	1.812		3.0	
Phenol	1.803	1.814		0.6	20.0
bis(2-Chloroethyl)ether	1.264	1.284		1.6	
2-Chlorophenol	1.261	1.322		4.8	
2-Methylphenol	1.143	1.162		1.7	
2,2-oxybis(1-Chloropropane)	1.445	1.334		-7.7	
Acetophenone	0.562	0.592		5.3	
3+4-Methylphenols	1.566	1.621		3.5	
n-Nitroso-di-n-propylamine	1.306	1.281	0.050	-1.9	
Nitrobenzene-d5	0.500	0.513		2.6	
Hexachloroethane	0.573	0.588		2.6	
Nitrobenzene	0.536	0.545		1.7	
Isophorone	0.957	0.976		2.0	
2-Nitrophenol	0.204	0.215		5.4	20.0
2,4-Dimethylphenol	0.318	0.330		3.8	
bis(2-Chloroethoxy)methane	0.434	0.441		1.6	
2,4-Dichlorophenol	0.369	0.389		5.4	20.0
Naphthalene	1.109	1.164		5.0	
4-Chloroaniline	0.474	0.496		4.6	
Hexachlorobutadiene	0.353	0.310		-12.2	20.0
Caprolactam	0.132	0.138		4.5	
4-Chloro-3-methylphenol	0.428	0.460		7.5	20.0
2-Methylnaphthalene	0.846	0.904		6.9	
Hexachlorocyclopentadiene	0.472	0.428	0.050	-9.3	
2,4,6-Trichlorophenol	0.495	0.488		-1.4	20.0
2-Fluorobiphenyl	1.390	1.420		2.2	
2,4,5-Trichlorophenol	0.545	0.507		-7.0	
1,1-Biphenyl	1.435	1.500		4.5	
2-Chloronaphthalene	1.157	1.225		5.9	
2-Nitroaniline	0.428	0.472		10.3	
Dimethylphthalate	1.628	1.613		-0.9	
Acenaphthylene	1.874	1.948		3.9	
2,6-Dinitrotoluene	0.350	0.365		4.3	
3-Nitroaniline	0.335	0.365		9.0	
Acenaphthene	1.259	1.345		6.8	20.0
2,4-Dinitrophenol	0.214	0.237	0.050	10.7	
4-Nitrophenol	0.300	0.314	0.050	4.7	
Dibenzofuran	1.876	1.991		6.1	
2,4-Dinitrotoluene	0.497	0.541		8.9	

Form VII SV-1

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: M1770 SAS No.: M1770 SDG No.: M1770

Instrument ID: BNA_G Calibration Date/Time: 03/25/2021 10:03

Lab File ID: BG048495.D Init. Calib. Date(s): 03/18/2021 03/18/2021

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:34 15:37

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Diethylphthalate	1.591	1.751		10.1	
4-Chlorophenyl-phenylether	0.906	0.873		-3.6	
Fluorene	1.574	1.547		-1.7	
4-Nitroaniline	0.367	0.403		9.8	
4,6-Dinitro-2-methylphenol	0.126	0.152		20.6	
n-Nitrosodiphenylamine	0.579	0.633		9.3	20.0
2,4,6-Tribromophenol	0.325	0.334		2.8	
4-Bromophenyl-phenylether	0.252	0.253		0.4	
Hexachlorobenzene	0.270	0.275		1.9	
Atrazine	0.233	0.245		5.2	
Pentachlorophenol	0.179	0.183		2.2	20.0
Phenanthrene	1.056	1.162		10.0	
Anthracene	1.048	1.158		10.5	
Carbazole	1.000	1.142		14.2	
Di-n-butylphthalate	1.106	1.340		21.2	
Fluoranthene	1.407	1.506		7.0	20.0
Pyrene	1.374	1.480		7.7	
Terphenyl-d14	1.109	1.113		0.4	
Butylbenzylphthalate	0.488	0.605		24.0	
3,3-Dichlorobenzidine	0.501	0.568		13.4	
Benzo(a)anthracene	1.387	1.457		5.0	
Chrysene	1.330	1.403		5.5	
Bis(2-ethylhexyl)phthalate	0.675	0.873		29.3	
Di-n-octyl phthalate	1.130	1.491		31.9	20.0
Benzo(b)fluoranthene	1.409	1.396		-0.9	
Benzo(k)fluoranthene	1.330	1.343		1.0	
Benzo(a)pyrene	1.285	1.303		1.4	20.0
Indeno(1,2,3-cd)pyrene	1.525	1.556		2.0	
Dibenzo(a,h)anthracene	1.301	1.334		2.5	
Benzo(g,h,i)perylene	1.262	1.279		1.3	
1,2,4,5-Tetrachlorobenzene	0.730	0.666		-8.8	
2,3,4,6-Tetrachlorophenol	0.538	0.493		-8.4	

All other compounds must meet a minimum RRF of 0.010.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: M1770 SAS No.: M1770 SDG No.: M1770

Instrument ID: BNA_M Calibration Date/Time: 03/29/2021 10:37

Lab File ID: BM029241.D Init. Calib. Date(s): 03/25/2021 03/25/2021

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:01 14:46

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.160	1.185		2.2	
Benzaldehyde	1.046	1.045		-0.1	
Phenol-d6	1.665	1.726		3.7	
Phenol	1.645	1.729		5.1	20.0
bis(2-Chloroethyl)ether	1.177	1.234		4.8	
2-Chlorophenol	1.309	1.345		2.8	
2-Methylphenol	1.057	1.118		5.8	
2,2-oxybis(1-Chloropropane)	1.805	1.936		7.3	
Acetophenone	0.501	0.514		2.6	
3+4-Methylphenols	1.415	1.526		7.8	
n-Nitroso-di-n-propylamine	1.074	1.172	0.050	9.1	
Nitrobenzene-d5	0.412	0.433		5.1	
Hexachloroethane	0.540	0.556		3.0	
Nitrobenzene	0.430	0.453		5.3	
Isophorone	0.708	0.754		6.5	
2-Nitrophenol	0.143	0.150		4.9	20.0
2,4-Dimethylphenol	0.275	0.283		2.9	
bis(2-Chloroethoxy)methane	0.374	0.395		5.6	
2,4-Dichlorophenol	0.299	0.306		2.3	20.0
Naphthalene	1.054	1.073		1.8	
4-Chloroaniline	0.417	0.439		5.3	
Hexachlorobutadiene	0.197	0.189		-4.1	20.0
Caprolactam	0.091	0.095		4.4	
4-Chloro-3-methylphenol	0.319	0.341		6.9	20.0
2-Methylnaphthalene	0.737	0.761		3.3	
Hexachlorocyclopentadiene	0.308	0.291	0.050	-5.5	
2,4,6-Trichlorophenol	0.365	0.367		0.5	20.0
2-Fluorobiphenyl	1.410	1.396		-1.0	
2,4,5-Trichlorophenol	0.406	0.409		0.7	
1,1-Biphenyl	1.520	1.512		-0.5	
2-Chloronaphthalene	1.197	1.173		-2.0	
2-Nitroaniline	0.351	0.388		10.5	
Dimethylphthalate	1.398	1.415		1.2	
Acenaphthylene	1.821	1.851		1.6	
2,6-Dinitrotoluene	0.302	0.322		6.6	
3-Nitroaniline	0.306	0.332		8.5	
Acenaphthene	1.157	1.149		-0.7	20.0
2,4-Dinitrophenol	0.151	0.152	0.050	0.7	
4-Nitrophenol	0.280	0.291	0.050	3.9	
Dibenzofuran	1.821	1.847		1.4	
2,4-Dinitrotoluene	0.398	0.425		6.8	

Form VII SV-1

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: M1770 SAS No.: M1770 SDG No.: M1770

Instrument ID: BNA_M Calibration Date/Time: 03/29/2021 10:37

Lab File ID: BM029241.D Init. Calib. Date(s): 03/25/2021 03/25/2021

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:01 14:46

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Diethylphthalate	1.377	1.438		4.4	
4-Chlorophenyl-phenylether	0.681	0.687		0.9	
Fluorene	1.476	1.532		3.8	
4-Nitroaniline	0.322	0.364		13.0	
4,6-Dinitro-2-methylphenol	0.111	0.111		0.0	
n-Nitrosodiphenylamine	0.640	0.653		2.0	20.0
2,4,6-Tribromophenol	0.185	0.192		3.8	
4-Bromophenyl-phenylether	0.183	0.175		-4.4	
Hexachlorobenzene	0.216	0.213		-1.4	
Atrazine	0.202	0.213		5.4	
Pentachlorophenol	0.133	0.135		1.5	20.0
Phenanthrene	1.160	1.181		1.8	
Anthracene	1.127	1.158		2.8	
Carbazole	1.109	1.165		5.1	
Di-n-butylphthalate	1.069	1.187		11.0	
Fluoranthene	1.281	1.334		4.1	20.0
Pyrene	1.354	1.343		-0.8	
Terphenyl-d14	0.996	0.990		-0.6	
Butylbenzylphthalate	0.457	0.499		9.2	
3,3-Dichlorobenzidine	0.390	0.401		2.8	
Benzo(a)anthracene	1.305	1.321		1.2	
Chrysene	1.306	1.295		-0.8	
Bis(2-ethylhexyl)phthalate	0.658	0.764		16.1	
Di-n-octyl phthalate	1.066	1.258		18.0	20.0
Benzo(b)fluoranthene	1.301	1.289		-0.9	
Benzo(k)fluoranthene	1.264	1.297		2.6	
Benzo(a)pyrene	1.179	1.190		0.9	20.0
Indeno(1,2,3-cd)pyrene	1.463	1.485		1.5	
Dibenzo(a,h)anthracene	1.252	1.285		2.6	
Benzo(g,h,i)perylene	1.227	1.227		0.0	
1,2,4,5-Tetrachlorobenzene	0.560	0.522		-6.8	
2,3,4,6-Tetrachlorophenol	0.332	0.340		2.4	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: M1770 SAS No.: M1770 SDG No.: M1770

Instrument ID: BNA_M Calibration Date/Time: 03/29/2021 18:31

Lab File ID: BM029250.D Init. Calib. Date(s): 03/25/2021 03/25/2021

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:01 14:46

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.160	1.197		3.2	
Benzaldehyde	1.046	1.054		0.8	
Phenol-d6	1.665	1.730		3.9	
Phenol	1.645	1.712		4.1	20.0
bis(2-Chloroethyl)ether	1.177	1.224		4.0	
2-Chlorophenol	1.309	1.343		2.6	
2-Methylphenol	1.057	1.092		3.3	
2,2-oxybis(1-Chloropropane)	1.805	1.956		8.4	
Acetophenone	0.501	0.523		4.4	
3+4-Methylphenols	1.415	1.459		3.1	
n-Nitroso-di-n-propylamine	1.074	1.132	0.050	5.4	
Nitrobenzene-d5	0.412	0.443		7.5	
Hexachloroethane	0.540	0.564		4.4	
Nitrobenzene	0.430	0.464		7.9	
Isophorone	0.708	0.760		7.3	
2-Nitrophenol	0.143	0.153		7.0	20.0
2,4-Dimethylphenol	0.275	0.283		2.9	
bis(2-Chloroethoxy)methane	0.374	0.395		5.6	
2,4-Dichlorophenol	0.299	0.308		3.0	20.0
Naphthalene	1.054	1.080		2.5	
4-Chloroaniline	0.417	0.438		5.0	
Hexachlorobutadiene	0.197	0.193		-2.0	20.0
Caprolactam	0.091	0.094		3.3	
4-Chloro-3-methylphenol	0.319	0.338		6.0	20.0
2-Methylnaphthalene	0.737	0.755		2.4	
Hexachlorocyclopentadiene	0.308	0.293	0.050	-4.9	
2,4,6-Trichlorophenol	0.365	0.367		0.5	20.0
2-Fluorobiphenyl	1.410	1.398		-0.9	
2,4,5-Trichlorophenol	0.406	0.407		0.2	
1,1-Biphenyl	1.520	1.500		-1.3	
2-Chloronaphthalene	1.197	1.177		-1.7	
2-Nitroaniline	0.351	0.392		11.7	
Dimethylphthalate	1.398	1.421		1.6	
Acenaphthylene	1.821	1.858		2.0	
2,6-Dinitrotoluene	0.302	0.314		4.0	
3-Nitroaniline	0.306	0.327		6.9	
Acenaphthene	1.157	1.154		-0.3	20.0
2,4-Dinitrophenol	0.151	0.148	0.050	-2.0	
4-Nitrophenol	0.280	0.285	0.050	1.8	
Dibenzofuran	1.821	1.830		0.5	
2,4-Dinitrotoluene	0.398	0.425		6.8	

Form VII SV-1

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: M1770 SAS No.: M1770 SDG No.: M1770

Instrument ID: BNA_M Calibration Date/Time: 03/29/2021 18:31

Lab File ID: BM029250.D Init. Calib. Date(s): 03/25/2021 03/25/2021

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:01 14:46

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Diethylphthalate	1.377	1.433		4.1	
4-Chlorophenyl-phenylether	0.681	0.680		-0.1	
Fluorene	1.476	1.518		2.8	
4-Nitroaniline	0.322	0.359		11.5	
4,6-Dinitro-2-methylphenol	0.111	0.108		-2.7	
n-Nitrosodiphenylamine	0.640	0.646		0.9	20.0
2,4,6-Tribromophenol	0.185	0.185		0.0	
4-Bromophenyl-phenylether	0.183	0.166		-9.3	
Hexachlorobenzene	0.216	0.212		-1.9	
Atrazine	0.202	0.215		6.4	
Pentachlorophenol	0.133	0.135		1.5	20.0
Phenanthrene	1.160	1.189		2.5	
Anthracene	1.127	1.166		3.5	
Carbazole	1.109	1.168		5.3	
Di-n-butylphthalate	1.069	1.194		11.7	
Fluoranthene	1.281	1.368		6.8	20.0
Pyrene	1.354	1.309		-3.3	
Terphenyl-d14	0.996	0.983		-1.3	
Butylbenzylphthalate	0.457	0.500		9.4	
3,3-Dichlorobenzidine	0.390	0.397		1.8	
Benzo(a)anthracene	1.305	1.320		1.1	
Chrysene	1.306	1.276		-2.3	
Bis(2-ethylhexyl)phthalate	0.658	0.775		17.8	
Di-n-octyl phthalate	1.066	1.275		19.6	20.0
Benzo(b)fluoranthene	1.301	1.314		1.0	
Benzo(k)fluoranthene	1.264	1.307		3.4	
Benzo(a)pyrene	1.179	1.211		2.7	20.0
Indeno(1,2,3-cd)pyrene	1.463	1.511		3.3	
Dibenzo(a,h)anthracene	1.252	1.294		3.4	
Benzo(g,h,i)perylene	1.227	1.253		2.1	
1,2,4,5-Tetrachlorobenzene	0.560	0.538		-3.9	
2,3,4,6-Tetrachlorophenol	0.332	0.336		1.2	

All other compounds must meet a minimum RRF of 0.010.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: M1770 SAS No.: M1770 SDG No.: M1770

Instrument ID: BNA_P Calibration Date/Time: 03/31/2021 09:33

Lab File ID: BP005117.D Init. Calib. Date(s): 03/23/2021 03/23/2021

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:59 16:23

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.300	1.235		-5.0	
Benzaldehyde	0.948	0.830		-12.4	
Phenol-d6	1.862	1.835		-1.5	
Phenol	1.908	1.875		-1.7	20.0
bis(2-Chloroethyl)ether	1.397	1.364		-2.4	
2-Chlorophenol	1.371	1.329		-3.1	
2-Methylphenol	1.218	1.242		2.0	
2,2-oxybis(1-Chloropropane)	1.025	1.030		0.5	
Acetophenone	0.575	0.552		-4.0	
3+4-Methylphenols	1.663	1.667		0.2	
n-Nitroso-di-n-propylamine	1.208	1.172	0.050	-3.0	
Nitrobenzene-d5	0.466	0.446		-4.3	
Hexachloroethane	0.589	0.573		-2.7	
Nitrobenzene	0.491	0.465		-5.3	
Isophorone	0.860	0.843		-2.0	
2-Nitrophenol	0.191	0.195		2.1	20.0
2,4-Dimethylphenol	0.306	0.304		-0.7	
bis(2-Chloroethoxy)methane	0.435	0.437		0.5	
2,4-Dichlorophenol	0.343	0.340		-0.9	20.0
Naphthalene	1.130	1.105		-2.2	
4-Chloroaniline	0.457	0.461		0.9	
Hexachlorobutadiene	0.248	0.239		-3.6	20.0
Caprolactam	0.112	0.114		1.8	
4-Chloro-3-methylphenol	0.414	0.413		-0.2	20.0
2-Methylnaphthalene	0.816	0.807		-1.1	
Hexachlorocyclopentadiene	0.354	0.340	0.050	-4.0	
2,4,6-Trichlorophenol	0.450	0.450		0.0	20.0
2-Fluorobiphenyl	1.478	1.425		-3.6	
2,4,5-Trichlorophenol	0.488	0.485		-0.6	
1,1-Biphenyl	1.525	1.468		-3.7	
2-Chloronaphthalene	1.242	1.189		-4.3	
2-Nitroaniline	0.396	0.390		-1.5	
Dimethylphthalate	1.540	1.487		-3.4	
Acenaphthylene	1.931	1.903		-1.5	
2,6-Dinitrotoluene	0.363	0.354		-2.5	
3-Nitroaniline	0.334	0.335		0.3	
Acenaphthene	1.188	1.154		-2.9	20.0
2,4-Dinitrophenol	0.220	0.206	0.050	-6.4	
4-Nitrophenol	0.274	0.275	0.050	0.4	
Dibenzofuran	1.948	1.879		-3.5	
2,4-Dinitrotoluene	0.479	0.482		0.6	

Form VII SV-1

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: M1770 SAS No.: M1770 SDG No.: M1770

Instrument ID: BNA_P Calibration Date/Time: 03/31/2021 09:33

Lab File ID: BP005117.D Init. Calib. Date(s): 03/23/2021 03/23/2021

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:59 16:23

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Diethylphthalate	1.507	1.481		-1.7	
4-Chlorophenyl-phenylether	0.835	0.795		-4.8	
Fluorene	1.573	1.527		-2.9	
4-Nitroaniline	0.343	0.342		-0.3	
4,6-Dinitro-2-methylphenol	0.146	0.151		3.4	
n-Nitrosodiphenylamine	0.643	0.650		1.1	20.0
2,4,6-Tribromophenol	0.261	0.252		-3.4	
4-Bromophenyl-phenylether	0.232	0.232		0.0	
Hexachlorobenzene	0.261	0.260		-0.4	
Atrazine	0.214	0.220		2.8	
Pentachlorophenol	0.172	0.176		2.3	20.0
Phenanthrene	1.159	1.143		-1.4	
Anthracene	1.133	1.131		-0.2	
Carbazole	1.064	1.083		1.8	
Di-n-butylphthalate	1.171	1.223		4.4	
Fluoranthene	1.364	1.350		-1.0	20.0
Pyrene	1.374	1.379		0.4	
Terphenyl-d14	1.099	1.093		-0.5	
Butylbenzylphthalate	0.510	0.545		6.9	
3,3-Dichlorobenzidine	0.457	0.456		-0.2	
Benzo(a)anthracene	1.359	1.344		-1.1	
Chrysene	1.334	1.312		-1.6	
Bis(2-ethylhexyl)phthalate	0.748	0.793		6.0	
Di-n-octyl phthalate	1.261	1.354		7.4	20.0
Benzo(b)fluoranthene	1.420	1.423		0.2	
Benzo(k)fluoranthene	1.361	1.297		-4.7	
Benzo(a)pyrene	1.273	1.271		-0.2	20.0
Indeno(1,2,3-cd)pyrene	1.500	1.465		-2.3	
Dibenzo(a,h)anthracene	1.297	1.275		-1.7	
Benzo(g,h,i)perylene	1.251	1.237		-1.1	
1,2,4,5-Tetrachlorobenzene	0.651	0.623		-4.3	
2,3,4,6-Tetrachlorophenol	0.450	0.430		-4.4	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: M1770 SAS No.: M1770 SDG No.: M1770

Instrument ID: BNA_P Calibration Date/Time: 04/01/2021 11:40

Lab File ID: BP005130.D Init. Calib. Date(s): 03/23/2021 03/23/2021

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:59 16:23

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.300	1.347		3.6	
Benzaldehyde	0.948	0.917		-3.3	
Phenol-d6	1.862	1.944		4.4	
Phenol	1.908	1.966		3.0	20.0
bis(2-Chloroethyl)ether	1.397	1.437		2.9	
2-Chlorophenol	1.371	1.442		5.2	
2-Methylphenol	1.218	1.297		6.5	
2,2-oxybis(1-Chloropropane)	1.025	1.170		14.1	
Acetophenone	0.575	0.557		-3.1	
3+4-Methylphenols	1.663	1.775		6.7	
n-Nitroso-di-n-propylamine	1.208	1.266	0.050	4.8	
Nitrobenzene-d5	0.466	0.451		-3.2	
Hexachloroethane	0.589	0.584		-0.8	
Nitrobenzene	0.491	0.469		-4.5	
Isophorone	0.860	0.873		1.5	
2-Nitrophenol	0.191	0.203		6.3	20.0
2,4-Dimethylphenol	0.306	0.300		-2.0	
bis(2-Chloroethoxy)methane	0.435	0.442		1.6	
2,4-Dichlorophenol	0.343	0.339		-1.2	20.0
Naphthalene	1.130	1.109		-1.9	
4-Chloroaniline	0.457	0.455		-0.4	
Hexachlorobutadiene	0.248	0.233		-6.0	20.0
Caprolactam	0.112	0.123		9.8	
4-Chloro-3-methylphenol	0.414	0.409		-1.2	20.0
2-Methylnaphthalene	0.816	0.788		-3.4	
Hexachlorocyclopentadiene	0.354	0.348	0.050	-1.7	
2,4,6-Trichlorophenol	0.450	0.451		0.2	20.0
2-Fluorobiphenyl	1.478	1.403		-5.1	
2,4,5-Trichlorophenol	0.488	0.478		-2.0	
1,1-Biphenyl	1.525	1.469		-3.7	
2-Chloronaphthalene	1.242	1.190		-4.2	
2-Nitroaniline	0.396	0.406		2.5	
Dimethylphthalate	1.540	1.462		-5.1	
Acenaphthylene	1.931	1.870		-3.2	
2,6-Dinitrotoluene	0.363	0.361		-0.6	
3-Nitroaniline	0.334	0.347		3.9	
Acenaphthene	1.188	1.141		-4.0	20.0
2,4-Dinitrophenol	0.220	0.237	0.050	7.7	
4-Nitrophenol	0.274	0.299	0.050	9.1	
Dibenzofuran	1.948	1.833		-5.9	
2,4-Dinitrotoluene	0.479	0.483		0.8	

Form VII SV-1

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: M1770 SAS No.: M1770 SDG No.: M1770

Instrument ID: BNA_P Calibration Date/Time: 04/01/2021 11:40

Lab File ID: BP005130.D Init. Calib. Date(s): 03/23/2021 03/23/2021

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:59 16:23

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Diethylphthalate	1.507	1.462		-3.0	
4-Chlorophenyl-phenylether	0.835	0.762		-8.7	
Fluorene	1.573	1.498		-4.8	
4-Nitroaniline	0.343	0.369		7.6	
4,6-Dinitro-2-methylphenol	0.146	0.162		11.0	
n-Nitrosodiphenylamine	0.643	0.655		1.9	20.0
2,4,6-Tribromophenol	0.261	0.253		-3.1	
4-Bromophenyl-phenylether	0.232	0.236		1.7	
Hexachlorobenzene	0.261	0.255		-2.3	
Atrazine	0.214	0.222		3.7	
Pentachlorophenol	0.172	0.180		4.7	20.0
Phenanthrene	1.159	1.148		-0.9	
Anthracene	1.133	1.149		1.4	
Carbazole	1.064	1.085		2.0	
Di-n-butylphthalate	1.171	1.253		7.0	
Fluoranthene	1.364	1.347		-1.2	20.0
Pyrene	1.374	1.385		0.8	
Terphenyl-d14	1.099	1.087		-1.1	
Butylbenzylphthalate	0.510	0.576		12.9	
3,3-Dichlorobenzidine	0.457	0.491		7.4	
Benzo(a)anthracene	1.359	1.356		-0.2	
Chrysene	1.334	1.320		-1.0	
Bis(2-ethylhexyl)phthalate	0.748	0.826		10.4	
Di-n-octyl phthalate	1.261	1.420		12.6	20.0
Benzo(b)fluoranthene	1.420	1.342		-5.5	
Benzo(k)fluoranthene	1.361	1.309		-3.8	
Benzo(a)pyrene	1.273	1.238		-2.7	20.0
Indeno(1,2,3-cd)pyrene	1.500	1.481		-1.3	
Dibenzo(a,h)anthracene	1.297	1.279		-1.4	
Benzo(g,h,i)perylene	1.251	1.248		-0.2	
1,2,4,5-Tetrachlorobenzene	0.651	0.609		-6.5	
2,3,4,6-Tetrachlorophenol	0.450	0.433		-3.8	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

CHEMTECH
284 Sheffield Street, Mountainside, New Jersey - 07092
Phone: (908) 789 8900 Fax: (908) 789 8922

LAB CHRONICLE

OrderID:	M1770	**OrderDate:**	3/22/2021 4:40:20 PM
Client:	TRC Companies, Inc.	**Project:**	NYCDPR Bush Terminal LandFill Piers 1-4
Contact:	James Peronto, P.E., LEED AP	**Location:**	J52,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
M1770-02	**MW-106I**	**Water**			**03/22/21**			**03/22/21**
			Mercury	7470A		03/24/21	03/25/21	
			Metals ICP-TAL	6020B		03/24/21	03/29/21	
M1770-03	**MW-106S**	**Water**			**03/22/21**			**03/22/21**
			Mercury	7470A		03/24/21	03/25/21	
			Metals ICP-TAL	6020B		03/24/21	03/29/21	
M1770-06	**MW-105D**	**Water**			**03/22/21**			**03/22/21**
			Mercury	7470A		03/24/21	03/25/21	
			Metals ICP-TAL	6020B		03/24/21	03/29/21	
M1770-07	**MW-105I**	**Water**			**03/22/21**			**03/22/21**
			Mercury	7470A		03/24/21	03/25/21	
			Metals ICP-TAL	6020B		03/24/21	03/29/21	
M1770-08	**MW-105S**	**Water**			**03/22/21**			**03/22/21**
			Mercury	7470A		03/24/21	03/25/21	
			Metals ICP-TAL	6020B		03/24/21	03/29/21	
M1770-10	**MW-106D**	**Water**			**03/23/21**			**03/23/21**
			Mercury	7470A		03/24/21	03/25/21	
			Metals ICP-TAL	6020B		03/24/21	03/29/21	
M1770-11	**MW-104D**	**Water**			**03/23/21**			**03/23/21**
			Mercury	7470A		03/24/21	03/25/21	
			Metals ICP-TAL	6020B		03/24/21	03/29/21	
M1770-12	**MW-104I**	**Water**			**03/23/21**			**03/23/21**
			Mercury	7470A		03/24/21	03/25/21	
			Metals ICP-TAL	6020B		03/24/21	03/29/21	
M1770-13	**MW-103D**	**Water**			**03/23/21**			**03/23/21**
			Mercury	7470A		03/24/21	03/25/21	

CHEMTECH
284 Sheffield Street, Mountainside, New Jersey - 07092
Phone: (908) 789 8900 Fax: (908) 789 8922

LAB CHRONICLE

			Metals ICP-TAL	6020B		03/24/21	03/29/21
M1770-14	**MW-103I**	**Water**			**03/23/21**		**03/23/21**
			Mercury	7470A		03/24/21	03/25/21
			Metals ICP-TAL	6020B		03/24/21	03/29/21
M1770-15	**MW-101S**	**Water**			**03/23/21**		**03/23/21**
			Mercury	7470A		03/24/21	03/25/21
			Metals ICP-TAL	6020B		03/24/21	03/29/21
M1770-16	**MW-101I**	**Water**			**03/23/21**		**03/23/21**
			Mercury	7470A		03/24/21	03/25/21
			Metals ICP-TAL	6020B		03/24/21	03/29/21
M1770-17	**MW-101D**	**Water**			**03/23/21**		**03/23/21**
			Mercury	7470A		03/24/21	03/25/21
			Metals ICP-TAL	6020B		03/24/21	03/29/21
M1770-18	**FB-03232021**	**Water**			**03/23/21**		**03/23/21**
			Mercury	7470A		03/24/21	03/25/21
			Metals ICP-TAL	6020B		03/24/21	03/29/21
M1770-20	**MW-103S**	**Water**			**03/24/21**		**03/24/21**
			Mercury	7470A		03/25/21	03/26/21
			Metals ICP-TAL	6020B		03/25/21	03/29/21
M1770-21	**MW-102D**	**Water**			**03/24/21**		**03/24/21**
			Mercury	7470A		03/25/21	03/26/21
			Metals ICP-TAL	6020B		03/25/21	03/29/21
M1770-22	**MW-102S**	**Water**			**03/24/21**		**03/24/21**
			Mercury	7470A		03/25/21	03/26/21
			Metals ICP-TAL	6020B		03/25/21	03/29/21
M1770-23	**MW-102I**	**Water**			**03/24/21**		**03/24/21**
			Mercury	7470A		03/25/21	03/26/21
			Metals ICP-TAL	6020B		03/25/21	03/29/21
M1770-24	**MW-107I**	**Water**			**03/24/21**		**03/24/21**
			Mercury	7470A		03/25/21	03/26/21
			Metals ICP-TAL	6020B		03/25/21	03/29/21

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: M1770 **Order ID:** M1770

Client: TRC Companies, Inc. **Project ID:** NYCDPR Bush Terminal LandFill Piers 1-4

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : MW-106I								
M1770-02	MW-106I	Water	Aluminum	5.910	J	3.91	20.0	ug/L
M1770-02	MW-106I	Water	Antimony	0.240	J	0.12	2.00	ug/L
M1770-02	MW-106I	Water	Arsenic	8.910		0.079	1.00	ug/L
M1770-02	MW-106I	Water	Barium	91.000		0.28	10.0	ug/L
M1770-02	MW-106I	Water	Calcium	15,400.000		28.4	500	ug/L
M1770-02	MW-106I	Water	Cobalt	0.130	J	0.054	1.00	ug/L
M1770-02	MW-106I	Water	Copper	1.700	J	0.75	2.00	ug/L
M1770-02	MW-106I	Water	Iron	52.800		3.85	50.0	ug/L
M1770-02	MW-106I	Water	Magnesium	46,800.000		8.29	500	ug/L
M1770-02	MW-106I	Water	Manganese	6.280		0.37	1.00	ug/L
M1770-02	MW-106I	Water	Nickel	0.360	J	0.12	1.00	ug/L
M1770-02	MW-106I	Water	Potassium	45,400.000		17.0	500	ug/L
M1770-02	MW-106I	Water	Selenium	2.890	J	1.97	5.00	ug/L
M1770-02	MW-106I	Water	Sodium	870,000.000	D	193	2500	ug/L
M1770-02	MW-106I	Water	Vanadium	7.010		0.053	5.00	ug/L
M1770-02	MW-106I	Water	Zinc	7.490		1.44	2.00	ug/L
Client ID : MW-106S								
M1770-03	MW-106S	Water	Aluminum	7.240	J	3.91	20.0	ug/L
M1770-03	MW-106S	Water	Arsenic	0.200	J	0.079	1.00	ug/L
M1770-03	MW-106S	Water	Barium	130.000		0.28	10.0	ug/L
M1770-03	MW-106S	Water	Calcium	171,000.000		28.4	500	ug/L
M1770-03	MW-106S	Water	Cobalt	0.090	J	0.054	1.00	ug/L
M1770-03	MW-106S	Water	Iron	145.000		3.85	50.0	ug/L
M1770-03	MW-106S	Water	Magnesium	45,100.000		8.29	500	ug/L
M1770-03	MW-106S	Water	Manganese	229.000		0.37	1.00	ug/L
M1770-03	MW-106S	Water	Nickel	0.540	J	0.12	1.00	ug/L
M1770-03	MW-106S	Water	Potassium	27,700.000		17.0	500	ug/L
M1770-03	MW-106S	Water	Sodium	352,000.000		38.5	500	ug/L
M1770-03	MW-106S	Water	Vanadium	1.480	J	0.053	5.00	ug/L
M1770-03	MW-106S	Water	Zinc	2.970		1.44	2.00	ug/L
Client ID : MW-105D								
M1770-06	MW-105D	Water	Aluminum	106.000		3.91	20.0	ug/L
M1770-06	MW-105D	Water	Antimony	0.710	J	0.12	2.00	ug/L
M1770-06	MW-105D	Water	Arsenic	0.710	J	0.079	1.00	ug/L
M1770-06	MW-105D	Water	Barium	44.400		0.28	10.0	ug/L
M1770-06	MW-105D	Water	Calcium	91,000.000		28.4	500	ug/L
M1770-06	MW-105D	Water	Chromium	2.150		0.30	2.00	ug/L
M1770-06	MW-105D	Water	Cobalt	0.910	J	0.054	1.00	ug/L

Hit Summary Sheet
SW-846

SDG No.: M1770 **Order ID:** M1770

Client: TRC Companies, Inc. **Project ID:** NYCDPR Bush Terminal LandFill Piers 1-4

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
M1770-06	MW-105D	Water	Copper	6.370		0.75	2.00	ug/L
M1770-06	MW-105D	Water	Iron	3,050.000		3.85	50.0	ug/L
M1770-06	MW-105D	Water	Lead	3.340		0.49	1.00	ug/L
M1770-06	MW-105D	Water	Magnesium	208,000.000		8.29	500	ug/L
M1770-06	MW-105D	Water	Manganese	1,150.000		0.37	1.00	ug/L
M1770-06	MW-105D	Water	Nickel	2.150		0.12	1.00	ug/L
M1770-06	MW-105D	Water	Potassium	108,000.000		17.0	500	ug/L
M1770-06	MW-105D	Water	Selenium	6.830		1.97	5.00	ug/L
M1770-06	MW-105D	Water	Sodium	1,950,000.000	D	193	2500	ug/L
M1770-06	MW-105D	Water	Thallium	0.080	J	0.080	1.00	ug/L
M1770-06	MW-105D	Water	Vanadium	0.950	J	0.053	5.00	ug/L
M1770-06	MW-105D	Water	Zinc	349.000		1.44	2.00	ug/L
Client ID :	**MW-105I**							
M1770-07	MW-105I	Water	Aluminum	44.100		3.91	20.0	ug/L
M1770-07	MW-105I	Water	Antimony	0.210	J	0.12	2.00	ug/L
M1770-07	MW-105I	Water	Arsenic	6.450		0.079	1.00	ug/L
M1770-07	MW-105I	Water	Barium	125.000		0.28	10.0	ug/L
M1770-07	MW-105I	Water	Calcium	26,100.000		28.4	500	ug/L
M1770-07	MW-105I	Water	Chromium	0.820	J	0.30	2.00	ug/L
M1770-07	MW-105I	Water	Cobalt	0.390	J	0.054	1.00	ug/L
M1770-07	MW-105I	Water	Copper	5.160		0.75	2.00	ug/L
M1770-07	MW-105I	Water	Iron	3,840.000		3.85	50.0	ug/L
M1770-07	MW-105I	Water	Lead	2.320		0.49	1.00	ug/L
M1770-07	MW-105I	Water	Magnesium	47,000.000		8.29	500	ug/L
M1770-07	MW-105I	Water	Manganese	29.000		0.37	1.00	ug/L
M1770-07	MW-105I	Water	Nickel	0.850	J	0.12	1.00	ug/L
M1770-07	MW-105I	Water	Potassium	34,200.000		17.0	500	ug/L
M1770-07	MW-105I	Water	Sodium	301,000.000		38.5	500	ug/L
M1770-07	MW-105I	Water	Vanadium	1.260	J	0.053	5.00	ug/L
M1770-07	MW-105I	Water	Zinc	205.000		1.44	2.00	ug/L
Client ID :	**MW-105S**							
M1770-08	MW-105S	Water	Aluminum	9.520	J	3.91	20.0	ug/L
M1770-08	MW-105S	Water	Antimony	0.190	J	0.12	2.00	ug/L
M1770-08	MW-105S	Water	Arsenic	0.360	J	0.079	1.00	ug/L
M1770-08	MW-105S	Water	Barium	151.000		0.28	10.0	ug/L
M1770-08	MW-105S	Water	Calcium	136,000.000		28.4	500	ug/L
M1770-08	MW-105S	Water	Chromium	0.800	J	0.30	2.00	ug/L
M1770-08	MW-105S	Water	Cobalt	0.260	J	0.054	1.00	ug/L
M1770-08	MW-105S	Water	Copper	3.540		0.75	2.00	ug/L
M1770-08	MW-105S	Water	Iron	912.000		3.85	50.0	ug/L
M1770-08	MW-105S	Water	Lead	0.970	J	0.49	1.00	ug/L

Hit Summary Sheet
SW-846

SDG No.: M1770 **Order ID:** M1770

Client: TRC Companies, Inc. **Project ID:** NYCDPR Bush Terminal LandFill Piers 1-4

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
M1770-08	MW-105S	Water	Magnesium	97,600.000		8.29	500	ug/L
M1770-08	MW-105S	Water	Manganese	142.000		0.37	1.00	ug/L
M1770-08	MW-105S	Water	Nickel	0.920	J	0.12	1.00	ug/L
M1770-08	MW-105S	Water	Potassium	44,300.000		17.0	500	ug/L
M1770-08	MW-105S	Water	Sodium	474,000.000		38.5	500	ug/L
M1770-08	MW-105S	Water	Vanadium	1.850	J	0.053	5.00	ug/L
M1770-08	MW-105S	Water	Zinc	16.900		1.44	2.00	ug/L
Client ID :	**MW-106D**							
M1770-10	MW-106D	Water	Aluminum	23.400		3.91	20.0	ug/L
M1770-10	MW-106D	Water	Antimony	0.250	J	0.12	2.00	ug/L
M1770-10	MW-106D	Water	Arsenic	0.560	J	0.079	1.00	ug/L
M1770-10	MW-106D	Water	Barium	46.800		0.28	10.0	ug/L
M1770-10	MW-106D	Water	Calcium	17,200.000		28.4	500	ug/L
M1770-10	MW-106D	Water	Chromium	1.490	J	0.30	2.00	ug/L
M1770-10	MW-106D	Water	Cobalt	0.290	J	0.054	1.00	ug/L
M1770-10	MW-106D	Water	Copper	15.600		0.75	2.00	ug/L
M1770-10	MW-106D	Water	Iron	566.000		3.85	50.0	ug/L
M1770-10	MW-106D	Water	Lead	3.630		0.49	1.00	ug/L
M1770-10	MW-106D	Water	Magnesium	3,290.000		8.29	500	ug/L
M1770-10	MW-106D	Water	Manganese	93.400		0.37	1.00	ug/L
M1770-10	MW-106D	Water	Nickel	1.870		0.12	1.00	ug/L
M1770-10	MW-106D	Water	Potassium	26,900.000		17.0	500	ug/L
M1770-10	MW-106D	Water	Sodium	47,200.000		38.5	500	ug/L
M1770-10	MW-106D	Water	Vanadium	0.200	J	0.053	5.00	ug/L
M1770-10	MW-106D	Water	Zinc	163.000		1.44	2.00	ug/L
Client ID :	**MW-104D**							
M1770-11	MW-104D	Water	Aluminum	165.000		3.91	20.0	ug/L
M1770-11	MW-104D	Water	Antimony	1.120	J	0.12	2.00	ug/L
M1770-11	MW-104D	Water	Arsenic	1.680		0.079	1.00	ug/L
M1770-11	MW-104D	Water	Barium	86.400		0.28	10.0	ug/L
M1770-11	MW-104D	Water	Calcium	161,000.000		28.4	500	ug/L
M1770-11	MW-104D	Water	Chromium	2.560		0.30	2.00	ug/L
M1770-11	MW-104D	Water	Cobalt	3.340		0.054	1.00	ug/L
M1770-11	MW-104D	Water	Copper	13.800		0.75	2.00	ug/L
M1770-11	MW-104D	Water	Iron	4,970.000		3.85	50.0	ug/L
M1770-11	MW-104D	Water	Lead	5.790		0.49	1.00	ug/L
M1770-11	MW-104D	Water	Magnesium	641,000.000	D	166	10000	ug/L
M1770-11	MW-104D	Water	Manganese	3,140.000		0.37	1.00	ug/L
M1770-11	MW-104D	Water	Nickel	5.600		0.12	1.00	ug/L
M1770-11	MW-104D	Water	Potassium	200,000.000		17.0	500	ug/L
M1770-11	MW-104D	Water	Selenium	32.300		1.97	5.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: M1770 **Order ID:** M1770

Client: TRC Companies, Inc. **Project ID:** NYCDPR Bush Terminal LandFill Piers 1-4

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
M1770-11	MW-104D	Water	Sodium	5,820,000.000	D	770	10000	ug/L
M1770-11	MW-104D	Water	Vanadium	1.020	J	0.053	5.00	ug/L
M1770-11	MW-104D	Water	Zinc	268.000		1.44	2.00	ug/L
Client ID :	**MW-104I**							
M1770-12	MW-104I	Water	Aluminum	21.300		3.91	20.0	ug/L
M1770-12	MW-104I	Water	Antimony	0.170	J	0.12	2.00	ug/L
M1770-12	MW-104I	Water	Arsenic	0.850	J	0.079	1.00	ug/L
M1770-12	MW-104I	Water	Barium	26.500		0.28	10.0	ug/L
M1770-12	MW-104I	Water	Calcium	6,060.000		28.4	500	ug/L
M1770-12	MW-104I	Water	Cobalt	0.090	J	0.054	1.00	ug/L
M1770-12	MW-104I	Water	Copper	9.520		0.75	2.00	ug/L
M1770-12	MW-104I	Water	Iron	560.000		3.85	50.0	ug/L
M1770-12	MW-104I	Water	Lead	2.920		0.49	1.00	ug/L
M1770-12	MW-104I	Water	Magnesium	2,110.000		8.29	500	ug/L
M1770-12	MW-104I	Water	Manganese	21.300		0.37	1.00	ug/L
M1770-12	MW-104I	Water	Nickel	0.820	J	0.12	1.00	ug/L
M1770-12	MW-104I	Water	Potassium	14,600.000		17.0	500	ug/L
M1770-12	MW-104I	Water	Sodium	9,690.000		38.5	500	ug/L
M1770-12	MW-104I	Water	Vanadium	0.190	J	0.053	5.00	ug/L
M1770-12	MW-104I	Water	Zinc	44.500		1.44	2.00	ug/L
Client ID :	**MW-103D**							
M1770-13	MW-103D	Water	Aluminum	53.600		3.91	20.0	ug/L
M1770-13	MW-103D	Water	Antimony	0.170	J	0.12	2.00	ug/L
M1770-13	MW-103D	Water	Arsenic	0.150	J	0.079	1.00	ug/L
M1770-13	MW-103D	Water	Barium	9.100	J	0.28	10.0	ug/L
M1770-13	MW-103D	Water	Calcium	3,690.000		28.4	500	ug/L
M1770-13	MW-103D	Water	Chromium	0.500	J	0.30	2.00	ug/L
M1770-13	MW-103D	Water	Cobalt	0.260	J	0.054	1.00	ug/L
M1770-13	MW-103D	Water	Copper	27.500		0.75	2.00	ug/L
M1770-13	MW-103D	Water	Iron	3,490.000		3.85	50.0	ug/L
M1770-13	MW-103D	Water	Lead	6.590		0.49	1.00	ug/L
M1770-13	MW-103D	Water	Magnesium	691.000		8.29	500	ug/L
M1770-13	MW-103D	Water	Manganese	85.100		0.37	1.00	ug/L
M1770-13	MW-103D	Water	Nickel	1.370		0.12	1.00	ug/L
M1770-13	MW-103D	Water	Potassium	4,440.000		17.0	500	ug/L
M1770-13	MW-103D	Water	Sodium	6,040.000		38.5	500	ug/L
M1770-13	MW-103D	Water	Vanadium	0.220	J	0.053	5.00	ug/L
M1770-13	MW-103D	Water	Zinc	105.000		1.44	2.00	ug/L
Client ID :	**MW-103I**							
M1770-14	MW-103I	Water	Aluminum	165.000		3.91	20.0	ug/L

Hit Summary Sheet
SW-846

SDG No.: M1770 **Order ID:** M1770

Client: TRC Companies, Inc. **Project ID:** NYCDPR Bush Terminal LandFill Piers 1-4

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
M1770-14	MW-103I	Water	Antimony	0.230	J	0.12	2.00	ug/L
M1770-14	MW-103I	Water	Arsenic	0.780	J	0.079	1.00	ug/L
M1770-14	MW-103I	Water	Barium	54.100		0.28	10.0	ug/L
M1770-14	MW-103I	Water	Calcium	9,110.000		28.4	500	ug/L
M1770-14	MW-103I	Water	Chromium	2.740		0.30	2.00	ug/L
M1770-14	MW-103I	Water	Cobalt	0.530	J	0.054	1.00	ug/L
M1770-14	MW-103I	Water	Copper	27.500		0.75	2.00	ug/L
M1770-14	MW-103I	Water	Iron	3,360.000		3.85	50.0	ug/L
M1770-14	MW-103I	Water	Lead	8.290		0.49	1.00	ug/L
M1770-14	MW-103I	Water	Magnesium	2,110.000		8.29	500	ug/L
M1770-14	MW-103I	Water	Manganese	244.000		0.37	1.00	ug/L
M1770-14	MW-103I	Water	Nickel	2.410		0.12	1.00	ug/L
M1770-14	MW-103I	Water	Potassium	9,720.000		17.0	500	ug/L
M1770-14	MW-103I	Water	Sodium	12,600.000		38.5	500	ug/L
M1770-14	MW-103I	Water	Vanadium	0.750	J	0.053	5.00	ug/L
M1770-14	MW-103I	Water	Zinc	352.000		1.44	2.00	ug/L
Client ID :	**MW-101S**							
M1770-15	MW-101S	Water	Aluminum	888.000		3.91	20.0	ug/L
M1770-15	MW-101S	Water	Antimony	1.380	J	0.12	2.00	ug/L
M1770-15	MW-101S	Water	Arsenic	1.710		0.079	1.00	ug/L
M1770-15	MW-101S	Water	Barium	132.000		0.28	10.0	ug/L
M1770-15	MW-101S	Water	Calcium	74,400.000		28.4	500	ug/L
M1770-15	MW-101S	Water	Chromium	3.090		0.30	2.00	ug/L
M1770-15	MW-101S	Water	Cobalt	26.000		0.054	1.00	ug/L
M1770-15	MW-101S	Water	Copper	18.500		0.75	2.00	ug/L
M1770-15	MW-101S	Water	Iron	1,360.000		3.85	50.0	ug/L
M1770-15	MW-101S	Water	Lead	25.100		0.49	1.00	ug/L
M1770-15	MW-101S	Water	Magnesium	35,600.000		8.29	500	ug/L
M1770-15	MW-101S	Water	Manganese	613.000		0.37	1.00	ug/L
M1770-15	MW-101S	Water	Nickel	6.180		0.12	1.00	ug/L
M1770-15	MW-101S	Water	Mercury	0.110	J	0.078	0.20	ug/L
M1770-15	MW-101S	Water	Potassium	3,590.000		17.0	500	ug/L
M1770-15	MW-101S	Water	Sodium	158,000.000		38.5	500	ug/L
M1770-15	MW-101S	Water	Vanadium	3.000	J	0.053	5.00	ug/L
M1770-15	MW-101S	Water	Zinc	90.700		1.44	2.00	ug/L
Client ID :	**MW-101I**							
M1770-16	MW-101I	Water	Aluminum	369.000		3.91	20.0	ug/L
M1770-16	MW-101I	Water	Antimony	0.350	J	0.12	2.00	ug/L
M1770-16	MW-101I	Water	Arsenic	1.240		0.079	1.00	ug/L
M1770-16	MW-101I	Water	Barium	160.000		0.28	10.0	ug/L
M1770-16	MW-101I	Water	Calcium	118,000.000		28.4	500	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: M1770 **Order ID:** M1770

Client: TRC Companies, Inc. **Project ID:** NYCDPR Bush Terminal LandFill Piers 1-4

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
M1770-16	MW-101I	Water	Chromium	4.240		0.30	2.00	ug/L
M1770-16	MW-101I	Water	Cobalt	0.410	J	0.054	1.00	ug/L
M1770-16	MW-101I	Water	Copper	6.230		0.75	2.00	ug/L
M1770-16	MW-101I	Water	Iron	737.000		3.85	50.0	ug/L
M1770-16	MW-101I	Water	Lead	7.670		0.49	1.00	ug/L
M1770-16	MW-101I	Water	Magnesium	57,400.000		8.29	500	ug/L
M1770-16	MW-101I	Water	Manganese	19.300		0.37	1.00	ug/L
M1770-16	MW-101I	Water	Nickel	1.260		0.12	1.00	ug/L
M1770-16	MW-101I	Water	Potassium	14,900.000		17.0	500	ug/L
M1770-16	MW-101I	Water	Sodium	91,200.000		38.5	500	ug/L
M1770-16	MW-101I	Water	Vanadium	3.000	J	0.053	5.00	ug/L
M1770-16	MW-101I	Water	Zinc	50.700		1.44	2.00	ug/L
Client ID :	**MW-101D**							
M1770-17	MW-101D	Water	Aluminum	438.000		3.91	20.0	ug/L
M1770-17	MW-101D	Water	Antimony	0.160	J	0.12	2.00	ug/L
M1770-17	MW-101D	Water	Arsenic	0.850	J	0.079	1.00	ug/L
M1770-17	MW-101D	Water	Barium	77.200		0.28	10.0	ug/L
M1770-17	MW-101D	Water	Calcium	51,900.000		28.4	500	ug/L
M1770-17	MW-101D	Water	Chromium	4.140		0.30	2.00	ug/L
M1770-17	MW-101D	Water	Cobalt	0.930	J	0.054	1.00	ug/L
M1770-17	MW-101D	Water	Copper	4.320		0.75	2.00	ug/L
M1770-17	MW-101D	Water	Iron	724.000		3.85	50.0	ug/L
M1770-17	MW-101D	Water	Lead	3.190		0.49	1.00	ug/L
M1770-17	MW-101D	Water	Magnesium	36,300.000		8.29	500	ug/L
M1770-17	MW-101D	Water	Manganese	157.000		0.37	1.00	ug/L
M1770-17	MW-101D	Water	Nickel	2.280		0.12	1.00	ug/L
M1770-17	MW-101D	Water	Potassium	19,000.000		17.0	500	ug/L
M1770-17	MW-101D	Water	Sodium	236,000.000		38.5	500	ug/L
M1770-17	MW-101D	Water	Vanadium	1.890	J	0.053	5.00	ug/L
M1770-17	MW-101D	Water	Zinc	84.700		1.44	2.00	ug/L
Client ID :	**FB-03232021**							
M1770-18	FB-03232021	Water	Aluminum	33.000		3.91	20.0	ug/L
M1770-18	FB-03232021	Water	Barium	0.600	J	0.28	10.0	ug/L
M1770-18	FB-03232021	Water	Beryllium	0.450	J	0.24	1.00	ug/L
M1770-18	FB-03232021	Water	Calcium	168.000	J	28.4	500	ug/L
M1770-18	FB-03232021	Water	Iron	42.200	J	3.85	50.0	ug/L
M1770-18	FB-03232021	Water	Lead	0.650	J	0.49	1.00	ug/L
M1770-18	FB-03232021	Water	Magnesium	33.200	J	8.29	500	ug/L
M1770-18	FB-03232021	Water	Manganese	2.780		0.37	1.00	ug/L
M1770-18	FB-03232021	Water	Nickel	0.160	J	0.12	1.00	ug/L
M1770-18	FB-03232021	Water	Sodium	521.000		38.5	500	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: M1770 **Order ID:** M1770

Client: TRC Companies, Inc. **Project ID:** NYCDPR Bush Terminal LandFill Piers 1-4

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
M1770-18	FB-03232021	Water	Vanadium	0.090	J	0.053	5.00	ug/L
M1770-18	FB-03232021	Water	Zinc	5.670		1.44	2.00	ug/L
Client ID :	**MW-103S**							
M1770-20	MW-103S	Water	Aluminum	114.000		3.91	20.0	ug/L
M1770-20	MW-103S	Water	Antimony	0.220	J	0.12	2.00	ug/L
M1770-20	MW-103S	Water	Arsenic	0.970	J	0.079	1.00	ug/L
M1770-20	MW-103S	Water	Barium	485.000		0.28	10.0	ug/L
M1770-20	MW-103S	Water	Calcium	170,000.000		28.4	500	ug/L
M1770-20	MW-103S	Water	Chromium	0.970	J	0.30	2.00	ug/L
M1770-20	MW-103S	Water	Cobalt	0.340	J	0.054	1.00	ug/L
M1770-20	MW-103S	Water	Copper	3.690		0.75	2.00	ug/L
M1770-20	MW-103S	Water	Iron	6,650.000		3.85	50.0	ug/L
M1770-20	MW-103S	Water	Lead	3.300		0.49	1.00	ug/L
M1770-20	MW-103S	Water	Magnesium	175,000.000		8.29	500	ug/L
M1770-20	MW-103S	Water	Manganese	679.000		0.37	1.00	ug/L
M1770-20	MW-103S	Water	Nickel	1.180		0.12	1.00	ug/L
M1770-20	MW-103S	Water	Potassium	89,700.000		17.0	500	ug/L
M1770-20	MW-103S	Water	Selenium	6.720		1.97	5.00	ug/L
M1770-20	MW-103S	Water	Sodium	1,840,000.000	D	385	5000	ug/L
M1770-20	MW-103S	Water	Vanadium	5.050		0.053	5.00	ug/L
M1770-20	MW-103S	Water	Zinc	6.530		1.44	2.00	ug/L
Client ID :	**MW-102D**							
M1770-21	MW-102D	Water	Aluminum	9,170.000		3.91	20.0	ug/L
M1770-21	MW-102D	Water	Antimony	2.540		0.12	2.00	ug/L
M1770-21	MW-102D	Water	Arsenic	7.680		0.079	1.00	ug/L
M1770-21	MW-102D	Water	Barium	115.000		0.28	10.0	ug/L
M1770-21	MW-102D	Water	Beryllium	0.630	J	0.24	1.00	ug/L
M1770-21	MW-102D	Water	Cadmium	0.210	J	0.20	1.00	ug/L
M1770-21	MW-102D	Water	Calcium	22,500.000		28.4	500	ug/L
M1770-21	MW-102D	Water	Chromium	43.900		0.30	2.00	ug/L
M1770-21	MW-102D	Water	Cobalt	10.300		0.054	1.00	ug/L
M1770-21	MW-102D	Water	Copper	97.000		0.75	2.00	ug/L
M1770-21	MW-102D	Water	Iron	15,700.000		3.85	50.0	ug/L
M1770-21	MW-102D	Water	Lead	82.200		0.49	1.00	ug/L
M1770-21	MW-102D	Water	Magnesium	12,400.000		8.29	500	ug/L
M1770-21	MW-102D	Water	Manganese	818.000		0.37	1.00	ug/L
M1770-21	MW-102D	Water	Nickel	26.600		0.12	1.00	ug/L
M1770-21	MW-102D	Water	Mercury	0.480		0.078	0.20	ug/L
M1770-21	MW-102D	Water	Potassium	12,400.000		17.0	500	ug/L
M1770-21	MW-102D	Water	Selenium	2.810	J	1.97	5.00	ug/L
M1770-21	MW-102D	Water	Sodium	289,000.000		38.5	500	ug/L

Hit Summary Sheet
SW-846

SDG No.: M1770 **Order ID:** M1770

Client: TRC Companies, Inc. **Project ID:** NYCDPR Bush Terminal LandFill Piers 1-4

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
M1770-21	MW-102D	Water	Thallium	0.130	J	0.080	1.00	ug/L
M1770-21	MW-102D	Water	Vanadium	23.500		0.053	5.00	ug/L
M1770-21	MW-102D	Water	Zinc	606.000		1.44	2.00	ug/L
Client ID :	**MW-102S**							
M1770-22	MW-102S	Water	Aluminum	634.000		3.91	20.0	ug/L
M1770-22	MW-102S	Water	Antimony	4.860		0.12	2.00	ug/L
M1770-22	MW-102S	Water	Arsenic	0.710	J	0.079	1.00	ug/L
M1770-22	MW-102S	Water	Barium	132.000		0.28	10.0	ug/L
M1770-22	MW-102S	Water	Calcium	48,200.000		28.4	500	ug/L
M1770-22	MW-102S	Water	Chromium	5.480		0.30	2.00	ug/L
M1770-22	MW-102S	Water	Cobalt	0.640	J	0.054	1.00	ug/L
M1770-22	MW-102S	Water	Copper	7.230		0.75	2.00	ug/L
M1770-22	MW-102S	Water	Iron	871.000		3.85	50.0	ug/L
M1770-22	MW-102S	Water	Lead	3.130		0.49	1.00	ug/L
M1770-22	MW-102S	Water	Magnesium	2,820.000		8.29	500	ug/L
M1770-22	MW-102S	Water	Manganese	34.800		0.37	1.00	ug/L
M1770-22	MW-102S	Water	Nickel	1.680		0.12	1.00	ug/L
M1770-22	MW-102S	Water	Potassium	6,640.000		17.0	500	ug/L
M1770-22	MW-102S	Water	Sodium	32,700.000		38.5	500	ug/L
M1770-22	MW-102S	Water	Thallium	0.090	J	0.080	1.00	ug/L
M1770-22	MW-102S	Water	Vanadium	1.670	J	0.053	5.00	ug/L
M1770-22	MW-102S	Water	Zinc	15.200		1.44	2.00	ug/L
Client ID :	**MW-102I**							
M1770-23	MW-102I	Water	Aluminum	525.000		3.91	20.0	ug/L
M1770-23	MW-102I	Water	Antimony	0.340	J	0.12	2.00	ug/L
M1770-23	MW-102I	Water	Arsenic	0.620	J	0.079	1.00	ug/L
M1770-23	MW-102I	Water	Barium	132.000		0.28	10.0	ug/L
M1770-23	MW-102I	Water	Calcium	130,000.000		28.4	500	ug/L
M1770-23	MW-102I	Water	Chromium	2.490		0.30	2.00	ug/L
M1770-23	MW-102I	Water	Cobalt	0.650	J	0.054	1.00	ug/L
M1770-23	MW-102I	Water	Copper	8.360		0.75	2.00	ug/L
M1770-23	MW-102I	Water	Iron	986.000		3.85	50.0	ug/L
M1770-23	MW-102I	Water	Lead	5.810		0.49	1.00	ug/L
M1770-23	MW-102I	Water	Magnesium	35,200.000		8.29	500	ug/L
M1770-23	MW-102I	Water	Manganese	107.000		0.37	1.00	ug/L
M1770-23	MW-102I	Water	Nickel	2.130		0.12	1.00	ug/L
M1770-23	MW-102I	Water	Potassium	4,190.000		17.0	500	ug/L
M1770-23	MW-102I	Water	Sodium	130,000.000		38.5	500	ug/L
M1770-23	MW-102I	Water	Vanadium	2.450	J	0.053	5.00	ug/L
M1770-23	MW-102I	Water	Zinc	27.400		1.44	2.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: M1770 **Order ID:** M1770

Client: TRC Companies, Inc. **Project ID:** NYCDPR Bush Terminal LandFill Piers 1-4

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : MW-107I								
M1770-24	MW-107I	Water	Aluminum	566.000		3.91	20.0	ug/L
M1770-24	MW-107I	Water	Antimony	0.330	J	0.12	2.00	ug/L
M1770-24	MW-107I	Water	Arsenic	0.750	J	0.079	1.00	ug/L
M1770-24	MW-107I	Water	Barium	131.000		0.28	10.0	ug/L
M1770-24	MW-107I	Water	Calcium	132,000.000		28.4	500	ug/L
M1770-24	MW-107I	Water	Chromium	3.090		0.30	2.00	ug/L
M1770-24	MW-107I	Water	Cobalt	0.860	J	0.054	1.00	ug/L
M1770-24	MW-107I	Water	Copper	9.740		0.75	2.00	ug/L
M1770-24	MW-107I	Water	Iron	1,110.000		3.85	50.0	ug/L
M1770-24	MW-107I	Water	Lead	6.450		0.49	1.00	ug/L
M1770-24	MW-107I	Water	Magnesium	36,700.000		8.29	500	ug/L
M1770-24	MW-107I	Water	Manganese	116.000		0.37	1.00	ug/L
M1770-24	MW-107I	Water	Nickel	2.640		0.12	1.00	ug/L
M1770-24	MW-107I	Water	Potassium	4,390.000		17.0	500	ug/L
M1770-24	MW-107I	Water	Sodium	134,000.000		38.5	500	ug/L
M1770-24	MW-107I	Water	Vanadium	2.790	J	0.053	5.00	ug/L
M1770-24	MW-107I	Water	Zinc	28.200		1.44	2.00	ug/L

SAMPLE DATA

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/22/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/22/21
Client Sample ID:	MW-106I	SDG No.:	M1770
Lab Sample ID:	M1770-02	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	5.91	J	1	3.91	20.0	ug/L	03/24/21 13:33	03/29/21 14:33	SW6020
7440-36-0	Antimony	0.24	J	1	0.12	2.00	ug/L	03/24/21 13:33	03/29/21 14:33	SW6020
7440-38-2	Arsenic	8.91		1	0.079	1.00	ug/L	03/24/21 13:33	03/29/21 14:33	SW6020
7440-39-3	Barium	91.0		1	0.28	10.0	ug/L	03/24/21 13:33	03/29/21 14:33	SW6020
7440-41-7	Beryllium	1.00	U	1	0.24	1.00	ug/L	03/24/21 13:33	03/29/21 14:33	SW6020
7440-43-9	Cadmium	1.00	U	1	0.20	1.00	ug/L	03/24/21 13:33	03/29/21 14:33	SW6020
7440-70-2	Calcium	15400		1	28.4	500	ug/L	03/24/21 13:33	03/29/21 14:33	SW6020
7440-47-3	Chromium	2.00	U	1	0.30	2.00	ug/L	03/24/21 13:33	03/29/21 14:33	SW6020
7440-48-4	Cobalt	0.13	J	1	0.054	1.00	ug/L	03/24/21 13:33	03/29/21 14:33	SW6020
7440-50-8	Copper	1.70	J	1	0.75	2.00	ug/L	03/24/21 13:33	03/29/21 14:33	SW6020
7439-89-6	Iron	52.8		1	3.85	50.0	ug/L	03/24/21 13:33	03/29/21 14:33	SW6020
7439-92-1	Lead	1.00	U	1	0.49	1.00	ug/L	03/24/21 13:33	03/29/21 14:33	SW6020
7439-95-4	Magnesium	46800		1	8.29	500	ug/L	03/24/21 13:33	03/29/21 14:33	SW6020
7439-96-5	Manganese	6.28		1	0.37	1.00	ug/L	03/24/21 13:33	03/29/21 14:33	SW6020
7439-97-6	Mercury	0.20	U	1	0.078	0.20	ug/L	03/24/21 10:45	03/25/21 11:52	SW7470A
7440-02-0	Nickel	0.36	J	1	0.12	1.00	ug/L	03/24/21 13:33	03/29/21 14:33	SW6020
7440-09-7	Potassium	45400		1	17.0	500	ug/L	03/24/21 13:33	03/29/21 14:33	SW6020
7782-49-2	Selenium	2.89	J	1	1.97	5.00	ug/L	03/24/21 13:33	03/29/21 14:33	SW6020
7440-22-4	Silver	1.00	UN*	1	0.42	1.00	ug/L	03/24/21 13:33	03/29/21 14:33	SW6020
7440-23-5	Sodium	870000	D	5	193	2500	ug/L	03/24/21 13:33	03/29/21 16:13	SW6020
7440-28-0	Thallium	1.00	U	1	0.080	1.00	ug/L	03/24/21 13:33	03/29/21 14:33	SW6020
7440-62-2	Vanadium	7.01		1	0.053	5.00	ug/L	03/24/21 13:33	03/29/21 14:33	SW6020
7440-66-6	Zinc	7.49		1	1.44	2.00	ug/L	03/24/21 13:33	03/29/21 14:33	SW6020

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/22/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/22/21
Client Sample ID:	MW-106S	SDG No.:	M1770
Lab Sample ID:	M1770-03	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	7.24	J	1	3.91	20.0	ug/L	03/24/21 13:33	03/29/21 14:36	SW6020
7440-36-0	Antimony	2.00	U	1	0.12	2.00	ug/L	03/24/21 13:33	03/29/21 14:36	SW6020
7440-38-2	Arsenic	0.20	J	1	0.079	1.00	ug/L	03/24/21 13:33	03/29/21 14:36	SW6020
7440-39-3	Barium	130		1	0.28	10.0	ug/L	03/24/21 13:33	03/29/21 14:36	SW6020
7440-41-7	Beryllium	1.00	U	1	0.24	1.00	ug/L	03/24/21 13:33	03/29/21 14:36	SW6020
7440-43-9	Cadmium	1.00	U	1	0.20	1.00	ug/L	03/24/21 13:33	03/29/21 14:36	SW6020
7440-70-2	Calcium	171000		1	28.4	500	ug/L	03/24/21 13:33	03/29/21 14:36	SW6020
7440-47-3	Chromium	2.00	U	1	0.30	2.00	ug/L	03/24/21 13:33	03/29/21 14:36	SW6020
7440-48-4	Cobalt	0.090	J	1	0.054	1.00	ug/L	03/24/21 13:33	03/29/21 14:36	SW6020
7440-50-8	Copper	2.00	U	1	0.75	2.00	ug/L	03/24/21 13:33	03/29/21 14:36	SW6020
7439-89-6	Iron	145		1	3.85	50.0	ug/L	03/24/21 13:33	03/29/21 14:36	SW6020
7439-92-1	Lead	1.00	U	1	0.49	1.00	ug/L	03/24/21 13:33	03/29/21 14:36	SW6020
7439-95-4	Magnesium	45100		1	8.29	500	ug/L	03/24/21 13:33	03/29/21 14:36	SW6020
7439-96-5	Manganese	229		1	0.37	1.00	ug/L	03/24/21 13:33	03/29/21 14:36	SW6020
7439-97-6	Mercury	0.20	U	1	0.078	0.20	ug/L	03/24/21 10:45	03/25/21 11:54	SW7470A
7440-02-0	Nickel	0.54	J	1	0.12	1.00	ug/L	03/24/21 13:33	03/29/21 14:36	SW6020
7440-09-7	Potassium	27700		1	17.0	500	ug/L	03/24/21 13:33	03/29/21 14:36	SW6020
7782-49-2	Selenium	5.00	U	1	1.97	5.00	ug/L	03/24/21 13:33	03/29/21 14:36	SW6020
7440-22-4	Silver	1.00	UN*	1	0.42	1.00	ug/L	03/24/21 13:33	03/29/21 14:36	SW6020
7440-23-5	Sodium	352000		1	38.5	500	ug/L	03/24/21 13:33	03/29/21 14:36	SW6020
7440-28-0	Thallium	1.00	U	1	0.080	1.00	ug/L	03/24/21 13:33	03/29/21 14:36	SW6020
7440-62-2	Vanadium	1.48	J	1	0.053	5.00	ug/L	03/24/21 13:33	03/29/21 14:36	SW6020
7440-66-6	Zinc	2.97		1	1.44	2.00	ug/L	03/24/21 13:33	03/29/21 14:36	SW6020

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/22/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/22/21
Client Sample ID:	MW-105D	SDG No.:	M1770
Lab Sample ID:	M1770-06	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	106		1	3.91	20.0	ug/L	03/24/21 13:33	03/29/21 15:23	SW6020
7440-36-0	Antimony	0.71	J	1	0.12	2.00	ug/L	03/24/21 13:33	03/29/21 15:23	SW6020
7440-38-2	Arsenic	0.71	J	1	0.079	1.00	ug/L	03/24/21 13:33	03/29/21 15:23	SW6020
7440-39-3	Barium	44.4		1	0.28	10.0	ug/L	03/24/21 13:33	03/29/21 15:23	SW6020
7440-41-7	Beryllium	1.00	U	1	0.24	1.00	ug/L	03/24/21 13:33	03/29/21 15:23	SW6020
7440-43-9	Cadmium	1.00	U	1	0.20	1.00	ug/L	03/24/21 13:33	03/29/21 15:23	SW6020
7440-70-2	Calcium	91000		1	28.4	500	ug/L	03/24/21 13:33	03/29/21 15:23	SW6020
7440-47-3	Chromium	2.15		1	0.30	2.00	ug/L	03/24/21 13:33	03/29/21 15:23	SW6020
7440-48-4	Cobalt	0.91	J	1	0.054	1.00	ug/L	03/24/21 13:33	03/29/21 15:23	SW6020
7440-50-8	Copper	6.37		1	0.75	2.00	ug/L	03/24/21 13:33	03/29/21 15:23	SW6020
7439-89-6	Iron	3050		1	3.85	50.0	ug/L	03/24/21 13:33	03/29/21 15:23	SW6020
7439-92-1	Lead	3.34		1	0.49	1.00	ug/L	03/24/21 13:33	03/29/21 15:23	SW6020
7439-95-4	Magnesium	208000		1	8.29	500	ug/L	03/24/21 13:33	03/29/21 15:23	SW6020
7439-96-5	Manganese	1150		1	0.37	1.00	ug/L	03/24/21 13:33	03/29/21 15:23	SW6020
7439-97-6	Mercury	0.20	U	1	0.078	0.20	ug/L	03/24/21 10:45	03/25/21 12:08	SW7470A
7440-02-0	Nickel	2.15		1	0.12	1.00	ug/L	03/24/21 13:33	03/29/21 15:23	SW6020
7440-09-7	Potassium	108000		1	17.0	500	ug/L	03/24/21 13:33	03/29/21 15:23	SW6020
7782-49-2	Selenium	6.83		1	1.97	5.00	ug/L	03/24/21 13:33	03/29/21 15:23	SW6020
7440-22-4	Silver	1.00	UN*	1	0.42	1.00	ug/L	03/24/21 13:33	03/29/21 15:23	SW6020
7440-23-5	Sodium	1950000	D	5	193	2500	ug/L	03/24/21 13:33	03/29/21 16:16	SW6020
7440-28-0	Thallium	0.080	J	1	0.080	1.00	ug/L	03/24/21 13:33	03/29/21 15:23	SW6020
7440-62-2	Vanadium	0.95	J	1	0.053	5.00	ug/L	03/24/21 13:33	03/29/21 15:23	SW6020
7440-66-6	Zinc	349		1	1.44	2.00	ug/L	03/24/21 13:33	03/29/21 15:23	SW6020

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/22/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/22/21
Client Sample ID:	MW-105I	SDG No.:	M1770
Lab Sample ID:	M1770-07	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	44.1		1	3.91	20.0	ug/L	03/24/21 13:33	03/29/21 15:25	SW6020
7440-36-0	Antimony	0.21	J	1	0.12	2.00	ug/L	03/24/21 13:33	03/29/21 15:25	SW6020
7440-38-2	Arsenic	6.45		1	0.079	1.00	ug/L	03/24/21 13:33	03/29/21 15:25	SW6020
7440-39-3	Barium	125		1	0.28	10.0	ug/L	03/24/21 13:33	03/29/21 15:25	SW6020
7440-41-7	Beryllium	1.00	U	1	0.24	1.00	ug/L	03/24/21 13:33	03/29/21 15:25	SW6020
7440-43-9	Cadmium	1.00	U	1	0.20	1.00	ug/L	03/24/21 13:33	03/29/21 15:25	SW6020
7440-70-2	Calcium	26100		1	28.4	500	ug/L	03/24/21 13:33	03/29/21 15:25	SW6020
7440-47-3	Chromium	0.82	J	1	0.30	2.00	ug/L	03/24/21 13:33	03/29/21 15:25	SW6020
7440-48-4	Cobalt	0.39	J	1	0.054	1.00	ug/L	03/24/21 13:33	03/29/21 15:25	SW6020
7440-50-8	Copper	5.16		1	0.75	2.00	ug/L	03/24/21 13:33	03/29/21 15:25	SW6020
7439-89-6	Iron	3840		1	3.85	50.0	ug/L	03/24/21 13:33	03/29/21 15:25	SW6020
7439-92-1	Lead	2.32		1	0.49	1.00	ug/L	03/24/21 13:33	03/29/21 15:25	SW6020
7439-95-4	Magnesium	47000		1	8.29	500	ug/L	03/24/21 13:33	03/29/21 15:25	SW6020
7439-96-5	Manganese	29.0		1	0.37	1.00	ug/L	03/24/21 13:33	03/29/21 15:25	SW6020
7439-97-6	Mercury	0.20	U	1	0.078	0.20	ug/L	03/24/21 10:45	03/25/21 12:10	SW7470A
7440-02-0	Nickel	0.85	J	1	0.12	1.00	ug/L	03/24/21 13:33	03/29/21 15:25	SW6020
7440-09-7	Potassium	34200		1	17.0	500	ug/L	03/24/21 13:33	03/29/21 15:25	SW6020
7782-49-2	Selenium	5.00	U	1	1.97	5.00	ug/L	03/24/21 13:33	03/29/21 15:25	SW6020
7440-22-4	Silver	1.00	UN*	1	0.42	1.00	ug/L	03/24/21 13:33	03/29/21 15:25	SW6020
7440-23-5	Sodium	301000		1	38.5	500	ug/L	03/24/21 13:33	03/29/21 15:25	SW6020
7440-28-0	Thallium	1.00	U	1	0.080	1.00	ug/L	03/24/21 13:33	03/29/21 15:25	SW6020
7440-62-2	Vanadium	1.26	J	1	0.053	5.00	ug/L	03/24/21 13:33	03/29/21 15:25	SW6020
7440-66-6	Zinc	205		1	1.44	2.00	ug/L	03/24/21 13:33	03/29/21 15:25	SW6020

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/22/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/22/21
Client Sample ID:	MW-105S	SDG No.:	M1770
Lab Sample ID:	M1770-08	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	9.52	J	1	3.91	20.0	ug/L	03/24/21 13:33	03/29/21 15:28	SW6020
7440-36-0	Antimony	0.19	J	1	0.12	2.00	ug/L	03/24/21 13:33	03/29/21 15:28	SW6020
7440-38-2	Arsenic	0.36	J	1	0.079	1.00	ug/L	03/24/21 13:33	03/29/21 15:28	SW6020
7440-39-3	Barium	151		1	0.28	10.0	ug/L	03/24/21 13:33	03/29/21 15:28	SW6020
7440-41-7	Beryllium	1.00	U	1	0.24	1.00	ug/L	03/24/21 13:33	03/29/21 15:28	SW6020
7440-43-9	Cadmium	1.00	U	1	0.20	1.00	ug/L	03/24/21 13:33	03/29/21 15:28	SW6020
7440-70-2	Calcium	136000		1	28.4	500	ug/L	03/24/21 13:33	03/29/21 15:28	SW6020
7440-47-3	Chromium	0.80	J	1	0.30	2.00	ug/L	03/24/21 13:33	03/29/21 15:28	SW6020
7440-48-4	Cobalt	0.26	J	1	0.054	1.00	ug/L	03/24/21 13:33	03/29/21 15:28	SW6020
7440-50-8	Copper	3.54		1	0.75	2.00	ug/L	03/24/21 13:33	03/29/21 15:28	SW6020
7439-89-6	Iron	912		1	3.85	50.0	ug/L	03/24/21 13:33	03/29/21 15:28	SW6020
7439-92-1	Lead	0.97	J	1	0.49	1.00	ug/L	03/24/21 13:33	03/29/21 15:28	SW6020
7439-95-4	Magnesium	97600		1	8.29	500	ug/L	03/24/21 13:33	03/29/21 15:28	SW6020
7439-96-5	Manganese	142		1	0.37	1.00	ug/L	03/24/21 13:33	03/29/21 15:28	SW6020
7439-97-6	Mercury	0.20	U	1	0.078	0.20	ug/L	03/24/21 10:45	03/25/21 12:12	SW7470A
7440-02-0	Nickel	0.92	J	1	0.12	1.00	ug/L	03/24/21 13:33	03/29/21 15:28	SW6020
7440-09-7	Potassium	44300		1	17.0	500	ug/L	03/24/21 13:33	03/29/21 15:28	SW6020
7782-49-2	Selenium	5.00	U	1	1.97	5.00	ug/L	03/24/21 13:33	03/29/21 15:28	SW6020
7440-22-4	Silver	1.00	UN*	1	0.42	1.00	ug/L	03/24/21 13:33	03/29/21 15:28	SW6020
7440-23-5	Sodium	474000		1	38.5	500	ug/L	03/24/21 13:33	03/29/21 15:28	SW6020
7440-28-0	Thallium	1.00	U	1	0.080	1.00	ug/L	03/24/21 13:33	03/29/21 15:28	SW6020
7440-62-2	Vanadium	1.85	J	1	0.053	5.00	ug/L	03/24/21 13:33	03/29/21 15:28	SW6020
7440-66-6	Zinc	16.9		1	1.44	2.00	ug/L	03/24/21 13:33	03/29/21 15:28	SW6020

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-106D	SDG No.:	M1770
Lab Sample ID:	M1770-10	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	23.4		1	3.91	20.0	ug/L	03/24/21 13:33	03/29/21 15:31	SW6020
7440-36-0	Antimony	0.25	J	1	0.12	2.00	ug/L	03/24/21 13:33	03/29/21 15:31	SW6020
7440-38-2	Arsenic	0.56	J	1	0.079	1.00	ug/L	03/24/21 13:33	03/29/21 15:31	SW6020
7440-39-3	Barium	46.8		1	0.28	10.0	ug/L	03/24/21 13:33	03/29/21 15:31	SW6020
7440-41-7	Beryllium	1.00	U	1	0.24	1.00	ug/L	03/24/21 13:33	03/29/21 15:31	SW6020
7440-43-9	Cadmium	1.00	U	1	0.20	1.00	ug/L	03/24/21 13:33	03/29/21 15:31	SW6020
7440-70-2	Calcium	17200		1	28.4	500	ug/L	03/24/21 13:33	03/29/21 15:31	SW6020
7440-47-3	Chromium	1.49	J	1	0.30	2.00	ug/L	03/24/21 13:33	03/29/21 15:31	SW6020
7440-48-4	Cobalt	0.29	J	1	0.054	1.00	ug/L	03/24/21 13:33	03/29/21 15:31	SW6020
7440-50-8	Copper	15.6		1	0.75	2.00	ug/L	03/24/21 13:33	03/29/21 15:31	SW6020
7439-89-6	Iron	566		1	3.85	50.0	ug/L	03/24/21 13:33	03/29/21 15:31	SW6020
7439-92-1	Lead	3.63		1	0.49	1.00	ug/L	03/24/21 13:33	03/29/21 15:31	SW6020
7439-95-4	Magnesium	3290		1	8.29	500	ug/L	03/24/21 13:33	03/29/21 15:31	SW6020
7439-96-5	Manganese	93.4		1	0.37	1.00	ug/L	03/24/21 13:33	03/29/21 15:31	SW6020
7439-97-6	Mercury	0.20	U	1	0.078	0.20	ug/L	03/24/21 10:45	03/25/21 12:15	SW7470A
7440-02-0	Nickel	1.87		1	0.12	1.00	ug/L	03/24/21 13:33	03/29/21 15:31	SW6020
7440-09-7	Potassium	26900		1	17.0	500	ug/L	03/24/21 13:33	03/29/21 15:31	SW6020
7782-49-2	Selenium	5.00	U	1	1.97	5.00	ug/L	03/24/21 13:33	03/29/21 15:31	SW6020
7440-22-4	Silver	1.00	UN*	1	0.42	1.00	ug/L	03/24/21 13:33	03/29/21 15:31	SW6020
7440-23-5	Sodium	47200		1	38.5	500	ug/L	03/24/21 13:33	03/29/21 15:31	SW6020
7440-28-0	Thallium	1.00	U	1	0.080	1.00	ug/L	03/24/21 13:33	03/29/21 15:31	SW6020
7440-62-2	Vanadium	0.20	J	1	0.053	5.00	ug/L	03/24/21 13:33	03/29/21 15:31	SW6020
7440-66-6	Zinc	163		1	1.44	2.00	ug/L	03/24/21 13:33	03/29/21 15:31	SW6020

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-104D	SDG No.:	M1770
Lab Sample ID:	M1770-11	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	165		1	3.91	20.0	ug/L	03/24/21 13:33	03/29/21 15:34	SW6020
7440-36-0	Antimony	1.12	J	1	0.12	2.00	ug/L	03/24/21 13:33	03/29/21 15:34	SW6020
7440-38-2	Arsenic	1.68		1	0.079	1.00	ug/L	03/24/21 13:33	03/29/21 15:34	SW6020
7440-39-3	Barium	86.4		1	0.28	10.0	ug/L	03/24/21 13:33	03/29/21 15:34	SW6020
7440-41-7	Beryllium	1.00	U	1	0.24	1.00	ug/L	03/24/21 13:33	03/29/21 15:34	SW6020
7440-43-9	Cadmium	1.00	U	1	0.20	1.00	ug/L	03/24/21 13:33	03/29/21 15:34	SW6020
7440-70-2	Calcium	161000		1	28.4	500	ug/L	03/24/21 13:33	03/29/21 15:34	SW6020
7440-47-3	Chromium	2.56		1	0.30	2.00	ug/L	03/24/21 13:33	03/29/21 15:34	SW6020
7440-48-4	Cobalt	3.34		1	0.054	1.00	ug/L	03/24/21 13:33	03/29/21 15:34	SW6020
7440-50-8	Copper	13.8		1	0.75	2.00	ug/L	03/24/21 13:33	03/29/21 15:34	SW6020
7439-89-6	Iron	4970		1	3.85	50.0	ug/L	03/24/21 13:33	03/29/21 15:34	SW6020
7439-92-1	Lead	5.79		1	0.49	1.00	ug/L	03/24/21 13:33	03/29/21 15:34	SW6020
7439-95-4	Magnesium	641000	D	20	166	10000	ug/L	03/24/21 13:33	03/29/21 16:19	SW6020
7439-96-5	Manganese	3140		1	0.37	1.00	ug/L	03/24/21 13:33	03/29/21 15:34	SW6020
7439-97-6	Mercury	0.20	U	1	0.078	0.20	ug/L	03/24/21 10:45	03/25/21 12:17	SW7470A
7440-02-0	Nickel	5.60		1	0.12	1.00	ug/L	03/24/21 13:33	03/29/21 15:34	SW6020
7440-09-7	Potassium	200000		1	17.0	500	ug/L	03/24/21 13:33	03/29/21 15:34	SW6020
7782-49-2	Selenium	32.3		1	1.97	5.00	ug/L	03/24/21 13:33	03/29/21 15:34	SW6020
7440-22-4	Silver	1.00	UN*	1	0.42	1.00	ug/L	03/24/21 13:33	03/29/21 15:34	SW6020
7440-23-5	Sodium	5820000	D	20	770	10000	ug/L	03/24/21 13:33	03/29/21 16:19	SW6020
7440-28-0	Thallium	1.00	U	1	0.080	1.00	ug/L	03/24/21 13:33	03/29/21 15:34	SW6020
7440-62-2	Vanadium	1.02	J	1	0.053	5.00	ug/L	03/24/21 13:33	03/29/21 15:34	SW6020
7440-66-6	Zinc	268		1	1.44	2.00	ug/L	03/24/21 13:33	03/29/21 15:34	SW6020

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-104I	SDG No.:	M1770
Lab Sample ID:	M1770-12	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	21.3		1	3.91	20.0	ug/L	03/24/21 13:33	03/29/21 15:37	SW6020
7440-36-0	Antimony	0.17	J	1	0.12	2.00	ug/L	03/24/21 13:33	03/29/21 15:37	SW6020
7440-38-2	Arsenic	0.85	J	1	0.079	1.00	ug/L	03/24/21 13:33	03/29/21 15:37	SW6020
7440-39-3	Barium	26.5		1	0.28	10.0	ug/L	03/24/21 13:33	03/29/21 15:37	SW6020
7440-41-7	Beryllium	5.00	UD	5	1.20	5.00	ug/L	03/24/21 13:33	03/29/21 16:21	SW6020
7440-43-9	Cadmium	1.00	U	1	0.20	1.00	ug/L	03/24/21 13:33	03/29/21 15:37	SW6020
7440-70-2	Calcium	6060		1	28.4	500	ug/L	03/24/21 13:33	03/29/21 15:37	SW6020
7440-47-3	Chromium	2.00	U	1	0.30	2.00	ug/L	03/24/21 13:33	03/29/21 15:37	SW6020
7440-48-4	Cobalt	0.090	J	1	0.054	1.00	ug/L	03/24/21 13:33	03/29/21 15:37	SW6020
7440-50-8	Copper	9.52		1	0.75	2.00	ug/L	03/24/21 13:33	03/29/21 15:37	SW6020
7439-89-6	Iron	560		1	3.85	50.0	ug/L	03/24/21 13:33	03/29/21 15:37	SW6020
7439-92-1	Lead	2.92		1	0.49	1.00	ug/L	03/24/21 13:33	03/29/21 15:37	SW6020
7439-95-4	Magnesium	2110		1	8.29	500	ug/L	03/24/21 13:33	03/29/21 15:37	SW6020
7439-96-5	Manganese	21.3		1	0.37	1.00	ug/L	03/24/21 13:33	03/29/21 15:37	SW6020
7439-97-6	Mercury	0.20	U	1	0.078	0.20	ug/L	03/24/21 10:45	03/25/21 12:19	SW7470A
7440-02-0	Nickel	0.82	J	1	0.12	1.00	ug/L	03/24/21 13:33	03/29/21 15:37	SW6020
7440-09-7	Potassium	14600		1	17.0	500	ug/L	03/24/21 13:33	03/29/21 15:37	SW6020
7782-49-2	Selenium	5.00	U	1	1.97	5.00	ug/L	03/24/21 13:33	03/29/21 15:37	SW6020
7440-22-4	Silver	1.00	UN*	1	0.42	1.00	ug/L	03/24/21 13:33	03/29/21 15:37	SW6020
7440-23-5	Sodium	9690		1	38.5	500	ug/L	03/24/21 13:33	03/29/21 15:37	SW6020
7440-28-0	Thallium	1.00	U	1	0.080	1.00	ug/L	03/24/21 13:33	03/29/21 15:37	SW6020
7440-62-2	Vanadium	0.19	J	1	0.053	5.00	ug/L	03/24/21 13:33	03/29/21 15:37	SW6020
7440-66-6	Zinc	44.5		1	1.44	2.00	ug/L	03/24/21 13:33	03/29/21 15:37	SW6020

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-103D	SDG No.:	M1770
Lab Sample ID:	M1770-13	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	53.6		1	3.91	20.0	ug/L	03/24/21 13:33	03/29/21 15:39	SW6020
7440-36-0	Antimony	0.17	J	1	0.12	2.00	ug/L	03/24/21 13:33	03/29/21 15:39	SW6020
7440-38-2	Arsenic	0.15	J	1	0.079	1.00	ug/L	03/24/21 13:33	03/29/21 15:39	SW6020
7440-39-3	Barium	9.10	J	1	0.28	10.0	ug/L	03/24/21 13:33	03/29/21 15:39	SW6020
7440-41-7	Beryllium	1.00	U	1	0.24	1.00	ug/L	03/24/21 13:33	03/29/21 15:39	SW6020
7440-43-9	Cadmium	1.00	U	1	0.20	1.00	ug/L	03/24/21 13:33	03/29/21 15:39	SW6020
7440-70-2	Calcium	3690		1	28.4	500	ug/L	03/24/21 13:33	03/29/21 15:39	SW6020
7440-47-3	Chromium	0.50	J	1	0.30	2.00	ug/L	03/24/21 13:33	03/29/21 15:39	SW6020
7440-48-4	Cobalt	0.26	J	1	0.054	1.00	ug/L	03/24/21 13:33	03/29/21 15:39	SW6020
7440-50-8	Copper	27.5		1	0.75	2.00	ug/L	03/24/21 13:33	03/29/21 15:39	SW6020
7439-89-6	Iron	3490		1	3.85	50.0	ug/L	03/24/21 13:33	03/29/21 15:39	SW6020
7439-92-1	Lead	6.59		1	0.49	1.00	ug/L	03/24/21 13:33	03/29/21 15:39	SW6020
7439-95-4	Magnesium	691		1	8.29	500	ug/L	03/24/21 13:33	03/29/21 15:39	SW6020
7439-96-5	Manganese	85.1		1	0.37	1.00	ug/L	03/24/21 13:33	03/29/21 15:39	SW6020
7439-97-6	Mercury	0.20	U	1	0.078	0.20	ug/L	03/24/21 10:45	03/25/21 12:21	SW7470A
7440-02-0	Nickel	1.37		1	0.12	1.00	ug/L	03/24/21 13:33	03/29/21 15:39	SW6020
7440-09-7	Potassium	4440		1	17.0	500	ug/L	03/24/21 13:33	03/29/21 15:39	SW6020
7782-49-2	Selenium	5.00	U	1	1.97	5.00	ug/L	03/24/21 13:33	03/29/21 15:39	SW6020
7440-22-4	Silver	1.00	UN*	1	0.42	1.00	ug/L	03/24/21 13:33	03/29/21 15:39	SW6020
7440-23-5	Sodium	6040		1	38.5	500	ug/L	03/24/21 13:33	03/29/21 15:39	SW6020
7440-28-0	Thallium	1.00	U	1	0.080	1.00	ug/L	03/24/21 13:33	03/29/21 15:39	SW6020
7440-62-2	Vanadium	0.22	J	1	0.053	5.00	ug/L	03/24/21 13:33	03/29/21 15:39	SW6020
7440-66-6	Zinc	105		1	1.44	2.00	ug/L	03/24/21 13:33	03/29/21 15:39	SW6020

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-103I	SDG No.:	M1770
Lab Sample ID:	M1770-14	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	165		1	3.91	20.0	ug/L	03/24/21 13:33	03/29/21 15:42	SW6020
7440-36-0	Antimony	0.23	J	1	0.12	2.00	ug/L	03/24/21 13:33	03/29/21 15:42	SW6020
7440-38-2	Arsenic	0.78	J	1	0.079	1.00	ug/L	03/24/21 13:33	03/29/21 15:42	SW6020
7440-39-3	Barium	54.1		1	0.28	10.0	ug/L	03/24/21 13:33	03/29/21 15:42	SW6020
7440-41-7	Beryllium	1.00	U	1	0.24	1.00	ug/L	03/24/21 13:33	03/29/21 15:42	SW6020
7440-43-9	Cadmium	1.00	U	1	0.20	1.00	ug/L	03/24/21 13:33	03/29/21 15:42	SW6020
7440-70-2	Calcium	9110		1	28.4	500	ug/L	03/24/21 13:33	03/29/21 15:42	SW6020
7440-47-3	Chromium	2.74		1	0.30	2.00	ug/L	03/24/21 13:33	03/29/21 15:42	SW6020
7440-48-4	Cobalt	0.53	J	1	0.054	1.00	ug/L	03/24/21 13:33	03/29/21 15:42	SW6020
7440-50-8	Copper	27.5		1	0.75	2.00	ug/L	03/24/21 13:33	03/29/21 15:42	SW6020
7439-89-6	Iron	3360		1	3.85	50.0	ug/L	03/24/21 13:33	03/29/21 15:42	SW6020
7439-92-1	Lead	8.29		1	0.49	1.00	ug/L	03/24/21 13:33	03/29/21 15:42	SW6020
7439-95-4	Magnesium	2110		1	8.29	500	ug/L	03/24/21 13:33	03/29/21 15:42	SW6020
7439-96-5	Manganese	244		1	0.37	1.00	ug/L	03/24/21 13:33	03/29/21 15:42	SW6020
7439-97-6	Mercury	0.20	U	1	0.078	0.20	ug/L	03/24/21 10:45	03/25/21 12:24	SW7470A
7440-02-0	Nickel	2.41		1	0.12	1.00	ug/L	03/24/21 13:33	03/29/21 15:42	SW6020
7440-09-7	Potassium	9720		1	17.0	500	ug/L	03/24/21 13:33	03/29/21 15:42	SW6020
7782-49-2	Selenium	5.00	U	1	1.97	5.00	ug/L	03/24/21 13:33	03/29/21 15:42	SW6020
7440-22-4	Silver	1.00	UN*	1	0.42	1.00	ug/L	03/24/21 13:33	03/29/21 15:42	SW6020
7440-23-5	Sodium	12600		1	38.5	500	ug/L	03/24/21 13:33	03/29/21 15:42	SW6020
7440-28-0	Thallium	1.00	U	1	0.080	1.00	ug/L	03/24/21 13:33	03/29/21 15:42	SW6020
7440-62-2	Vanadium	0.75	J	1	0.053	5.00	ug/L	03/24/21 13:33	03/29/21 15:42	SW6020
7440-66-6	Zinc	352		1	1.44	2.00	ug/L	03/24/21 13:33	03/29/21 15:42	SW6020

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-101S	SDG No.:	M1770
Lab Sample ID:	M1770-15	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	888		1	3.91	20.0	ug/L	03/24/21 13:33	03/29/21 15:45	SW6020
7440-36-0	Antimony	1.38	J	1	0.12	2.00	ug/L	03/24/21 13:33	03/29/21 15:45	SW6020
7440-38-2	Arsenic	1.71		1	0.079	1.00	ug/L	03/24/21 13:33	03/29/21 15:45	SW6020
7440-39-3	Barium	132		1	0.28	10.0	ug/L	03/24/21 13:33	03/29/21 15:45	SW6020
7440-41-7	Beryllium	1.00	U	1	0.24	1.00	ug/L	03/24/21 13:33	03/29/21 15:45	SW6020
7440-43-9	Cadmium	1.00	U	1	0.20	1.00	ug/L	03/24/21 13:33	03/29/21 15:45	SW6020
7440-70-2	Calcium	74400		1	28.4	500	ug/L	03/24/21 13:33	03/29/21 15:45	SW6020
7440-47-3	Chromium	3.09		1	0.30	2.00	ug/L	03/24/21 13:33	03/29/21 15:45	SW6020
7440-48-4	Cobalt	26.0		1	0.054	1.00	ug/L	03/24/21 13:33	03/29/21 15:45	SW6020
7440-50-8	Copper	18.5		1	0.75	2.00	ug/L	03/24/21 13:33	03/29/21 15:45	SW6020
7439-89-6	Iron	1360		1	3.85	50.0	ug/L	03/24/21 13:33	03/29/21 15:45	SW6020
7439-92-1	Lead	25.1		1	0.49	1.00	ug/L	03/24/21 13:33	03/29/21 15:45	SW6020
7439-95-4	Magnesium	35600		1	8.29	500	ug/L	03/24/21 13:33	03/29/21 15:45	SW6020
7439-96-5	Manganese	613		1	0.37	1.00	ug/L	03/24/21 13:33	03/29/21 15:45	SW6020
7439-97-6	Mercury	0.11	J	1	0.078	0.20	ug/L	03/24/21 10:45	03/25/21 12:30	SW7470A
7440-02-0	Nickel	6.18		1	0.12	1.00	ug/L	03/24/21 13:33	03/29/21 15:45	SW6020
7440-09-7	Potassium	3590		1	17.0	500	ug/L	03/24/21 13:33	03/29/21 15:45	SW6020
7782-49-2	Selenium	5.00	U	1	1.97	5.00	ug/L	03/24/21 13:33	03/29/21 15:45	SW6020
7440-22-4	Silver	1.00	UN*	1	0.42	1.00	ug/L	03/24/21 13:33	03/29/21 15:45	SW6020
7440-23-5	Sodium	158000		1	38.5	500	ug/L	03/24/21 13:33	03/29/21 15:45	SW6020
7440-28-0	Thallium	1.00	U	1	0.080	1.00	ug/L	03/24/21 13:33	03/29/21 15:45	SW6020
7440-62-2	Vanadium	3.00	J	1	0.053	5.00	ug/L	03/24/21 13:33	03/29/21 15:45	SW6020
7440-66-6	Zinc	90.7		1	1.44	2.00	ug/L	03/24/21 13:33	03/29/21 15:45	SW6020

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-101I	SDG No.:	M1770
Lab Sample ID:	M1770-16	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	369		1	3.91	20.0	ug/L	03/24/21 13:33	03/29/21 15:48	SW6020
7440-36-0	Antimony	0.35	J	1	0.12	2.00	ug/L	03/24/21 13:33	03/29/21 15:48	SW6020
7440-38-2	Arsenic	1.24		1	0.079	1.00	ug/L	03/24/21 13:33	03/29/21 15:48	SW6020
7440-39-3	Barium	160		1	0.28	10.0	ug/L	03/24/21 13:33	03/29/21 15:48	SW6020
7440-41-7	Beryllium	1.00	U	1	0.24	1.00	ug/L	03/24/21 13:33	03/29/21 15:48	SW6020
7440-43-9	Cadmium	1.00	U	1	0.20	1.00	ug/L	03/24/21 13:33	03/29/21 15:48	SW6020
7440-70-2	Calcium	118000		1	28.4	500	ug/L	03/24/21 13:33	03/29/21 15:48	SW6020
7440-47-3	Chromium	4.24		1	0.30	2.00	ug/L	03/24/21 13:33	03/29/21 15:48	SW6020
7440-48-4	Cobalt	0.41	J	1	0.054	1.00	ug/L	03/24/21 13:33	03/29/21 15:48	SW6020
7440-50-8	Copper	6.23		1	0.75	2.00	ug/L	03/24/21 13:33	03/29/21 15:48	SW6020
7439-89-6	Iron	737		1	3.85	50.0	ug/L	03/24/21 13:33	03/29/21 15:48	SW6020
7439-92-1	Lead	7.67		1	0.49	1.00	ug/L	03/24/21 13:33	03/29/21 15:48	SW6020
7439-95-4	Magnesium	57400		1	8.29	500	ug/L	03/24/21 13:33	03/29/21 15:48	SW6020
7439-96-5	Manganese	19.3		1	0.37	1.00	ug/L	03/24/21 13:33	03/29/21 15:48	SW6020
7439-97-6	Mercury	0.20	U	1	0.078	0.20	ug/L	03/24/21 10:45	03/25/21 12:33	SW7470A
7440-02-0	Nickel	1.26		1	0.12	1.00	ug/L	03/24/21 13:33	03/29/21 15:48	SW6020
7440-09-7	Potassium	14900		1	17.0	500	ug/L	03/24/21 13:33	03/29/21 15:48	SW6020
7782-49-2	Selenium	5.00	U	1	1.97	5.00	ug/L	03/24/21 13:33	03/29/21 15:48	SW6020
7440-22-4	Silver	1.00	UN*	1	0.42	1.00	ug/L	03/24/21 13:33	03/29/21 15:48	SW6020
7440-23-5	Sodium	91200		1	38.5	500	ug/L	03/24/21 13:33	03/29/21 15:48	SW6020
7440-28-0	Thallium	1.00	U	1	0.080	1.00	ug/L	03/24/21 13:33	03/29/21 15:48	SW6020
7440-62-2	Vanadium	3.00	J	1	0.053	5.00	ug/L	03/24/21 13:33	03/29/21 15:48	SW6020
7440-66-6	Zinc	50.7		1	1.44	2.00	ug/L	03/24/21 13:33	03/29/21 15:48	SW6020

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-101D	SDG No.:	M1770
Lab Sample ID:	M1770-17	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	438		1	3.91	20.0	ug/L	03/24/21 13:33	03/29/21 16:07	SW6020
7440-36-0	Antimony	0.16	J	1	0.12	2.00	ug/L	03/24/21 13:33	03/29/21 16:07	SW6020
7440-38-2	Arsenic	0.85	J	1	0.079	1.00	ug/L	03/24/21 13:33	03/29/21 16:07	SW6020
7440-39-3	Barium	77.2		1	0.28	10.0	ug/L	03/24/21 13:33	03/29/21 16:07	SW6020
7440-41-7	Beryllium	1.00	U	1	0.24	1.00	ug/L	03/24/21 13:33	03/29/21 16:07	SW6020
7440-43-9	Cadmium	1.00	U	1	0.20	1.00	ug/L	03/24/21 13:33	03/29/21 16:07	SW6020
7440-70-2	Calcium	51900		1	28.4	500	ug/L	03/24/21 13:33	03/29/21 16:07	SW6020
7440-47-3	Chromium	4.14		1	0.30	2.00	ug/L	03/24/21 13:33	03/29/21 16:07	SW6020
7440-48-4	Cobalt	0.93	J	1	0.054	1.00	ug/L	03/24/21 13:33	03/29/21 16:07	SW6020
7440-50-8	Copper	4.32		1	0.75	2.00	ug/L	03/24/21 13:33	03/29/21 16:07	SW6020
7439-89-6	Iron	724		1	3.85	50.0	ug/L	03/24/21 13:33	03/29/21 16:07	SW6020
7439-92-1	Lead	3.19		1	0.49	1.00	ug/L	03/24/21 13:33	03/29/21 16:07	SW6020
7439-95-4	Magnesium	36300		1	8.29	500	ug/L	03/24/21 13:33	03/29/21 16:07	SW6020
7439-96-5	Manganese	157		1	0.37	1.00	ug/L	03/24/21 13:33	03/29/21 16:07	SW6020
7439-97-6	Mercury	0.20	U	1	0.078	0.20	ug/L	03/24/21 10:45	03/25/21 12:35	SW7470A
7440-02-0	Nickel	2.28		1	0.12	1.00	ug/L	03/24/21 13:33	03/29/21 16:07	SW6020
7440-09-7	Potassium	19000		1	17.0	500	ug/L	03/24/21 13:33	03/29/21 16:07	SW6020
7782-49-2	Selenium	5.00	U	1	1.97	5.00	ug/L	03/24/21 13:33	03/29/21 16:07	SW6020
7440-22-4	Silver	1.00	UN*	1	0.42	1.00	ug/L	03/24/21 13:33	03/29/21 16:07	SW6020
7440-23-5	Sodium	236000		1	38.5	500	ug/L	03/24/21 13:33	03/29/21 16:07	SW6020
7440-28-0	Thallium	1.00	U	1	0.080	1.00	ug/L	03/24/21 13:33	03/29/21 16:07	SW6020
7440-62-2	Vanadium	1.89	J	1	0.053	5.00	ug/L	03/24/21 13:33	03/29/21 16:07	SW6020
7440-66-6	Zinc	84.7		1	1.44	2.00	ug/L	03/24/21 13:33	03/29/21 16:07	SW6020

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	FB-03232021	SDG No.:	M1770
Lab Sample ID:	M1770-18	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	33.0		1	3.91	20.0	ug/L	03/24/21 13:33	03/29/21 16:10	SW6020
7440-36-0	Antimony	2.00	U	1	0.12	2.00	ug/L	03/24/21 13:33	03/29/21 16:10	SW6020
7440-38-2	Arsenic	1.00	U	1	0.079	1.00	ug/L	03/24/21 13:33	03/29/21 16:10	SW6020
7440-39-3	Barium	0.60	J	1	0.28	10.0	ug/L	03/24/21 13:33	03/29/21 16:10	SW6020
7440-41-7	Beryllium	0.45	J	1	0.24	1.00	ug/L	03/24/21 13:33	03/29/21 16:10	SW6020
7440-43-9	Cadmium	1.00	U	1	0.20	1.00	ug/L	03/24/21 13:33	03/29/21 16:10	SW6020
7440-70-2	Calcium	168	J	1	28.4	500	ug/L	03/24/21 13:33	03/29/21 16:10	SW6020
7440-47-3	Chromium	2.00	U	1	0.30	2.00	ug/L	03/24/21 13:33	03/29/21 16:10	SW6020
7440-48-4	Cobalt	1.00	U	1	0.054	1.00	ug/L	03/24/21 13:33	03/29/21 16:10	SW6020
7440-50-8	Copper	2.00	U	1	0.75	2.00	ug/L	03/24/21 13:33	03/29/21 16:10	SW6020
7439-89-6	Iron	42.2	J	1	3.85	50.0	ug/L	03/24/21 13:33	03/29/21 16:10	SW6020
7439-92-1	Lead	0.65	J	1	0.49	1.00	ug/L	03/24/21 13:33	03/29/21 16:10	SW6020
7439-95-4	Magnesium	33.2	J	1	8.29	500	ug/L	03/24/21 13:33	03/29/21 16:10	SW6020
7439-96-5	Manganese	2.78		1	0.37	1.00	ug/L	03/24/21 13:33	03/29/21 16:10	SW6020
7439-97-6	Mercury	0.20	U	1	0.078	0.20	ug/L	03/24/21 10:45	03/25/21 12:37	SW7470A
7440-02-0	Nickel	0.16	J	1	0.12	1.00	ug/L	03/24/21 13:33	03/29/21 16:10	SW6020
7440-09-7	Potassium	500	U	1	17.0	500	ug/L	03/24/21 13:33	03/29/21 16:10	SW6020
7782-49-2	Selenium	5.00	U	1	1.97	5.00	ug/L	03/24/21 13:33	03/29/21 16:10	SW6020
7440-22-4	Silver	1.00	UN*	1	0.42	1.00	ug/L	03/24/21 13:33	03/29/21 16:10	SW6020
7440-23-5	Sodium	521		1	38.5	500	ug/L	03/24/21 13:33	03/29/21 16:10	SW6020
7440-28-0	Thallium	1.00	U	1	0.080	1.00	ug/L	03/24/21 13:33	03/29/21 16:10	SW6020
7440-62-2	Vanadium	0.090	J	1	0.053	5.00	ug/L	03/24/21 13:33	03/29/21 16:10	SW6020
7440-66-6	Zinc	5.67		1	1.44	2.00	ug/L	03/24/21 13:33	03/29/21 16:10	SW6020

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/24/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/24/21
Client Sample ID:	MW-103S	SDG No.:	M1770
Lab Sample ID:	M1770-20	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	114		1	3.91	20.0	ug/L	03/25/21 11:10	03/29/21 16:27	SW6020
7440-36-0	Antimony	0.22	J	1	0.12	2.00	ug/L	03/25/21 11:10	03/29/21 16:27	SW6020
7440-38-2	Arsenic	0.97	J	1	0.079	1.00	ug/L	03/25/21 11:10	03/29/21 16:27	SW6020
7440-39-3	Barium	485		1	0.28	10.0	ug/L	03/25/21 11:10	03/29/21 16:27	SW6020
7440-41-7	Beryllium	1.00	U	1	0.24	1.00	ug/L	03/25/21 11:10	03/29/21 16:27	SW6020
7440-43-9	Cadmium	1.00	U	1	0.20	1.00	ug/L	03/25/21 11:10	03/29/21 16:27	SW6020
7440-70-2	Calcium	170000		1	28.4	500	ug/L	03/25/21 11:10	03/29/21 16:27	SW6020
7440-47-3	Chromium	0.97	J	1	0.30	2.00	ug/L	03/25/21 11:10	03/29/21 16:27	SW6020
7440-48-4	Cobalt	0.34	J	1	0.054	1.00	ug/L	03/25/21 11:10	03/29/21 16:27	SW6020
7440-50-8	Copper	3.69		1	0.75	2.00	ug/L	03/25/21 11:10	03/29/21 16:27	SW6020
7439-89-6	Iron	6650		1	3.85	50.0	ug/L	03/25/21 11:10	03/29/21 16:27	SW6020
7439-92-1	Lead	3.30		1	0.49	1.00	ug/L	03/25/21 11:10	03/29/21 16:27	SW6020
7439-95-4	Magnesium	175000		1	8.29	500	ug/L	03/25/21 11:10	03/29/21 16:27	SW6020
7439-96-5	Manganese	679		1	0.37	1.00	ug/L	03/25/21 11:10	03/29/21 16:27	SW6020
7439-97-6	Mercury	0.20	U	1	0.078	0.20	ug/L	03/25/21 16:20	03/26/21 12:53	SW7470A
7440-02-0	Nickel	1.18		1	0.12	1.00	ug/L	03/25/21 11:10	03/29/21 16:27	SW6020
7440-09-7	Potassium	89700		1	17.0	500	ug/L	03/25/21 11:10	03/29/21 16:27	SW6020
7782-49-2	Selenium	6.72		1	1.97	5.00	ug/L	03/25/21 11:10	03/29/21 16:27	SW6020
7440-22-4	Silver	1.00	U	1	0.42	1.00	ug/L	03/25/21 11:10	03/29/21 16:27	SW6020
7440-23-5	Sodium	1840000	D	10	385	5000	ug/L	03/25/21 11:10	03/29/21 17:35	SW6020
7440-28-0	Thallium	1.00	U	1	0.080	1.00	ug/L	03/25/21 11:10	03/29/21 16:27	SW6020
7440-62-2	Vanadium	5.05		1	0.053	5.00	ug/L	03/25/21 11:10	03/29/21 16:27	SW6020
7440-66-6	Zinc	6.53		1	1.44	2.00	ug/L	03/25/21 11:10	03/29/21 16:27	SW6020

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/24/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/24/21
Client Sample ID:	MW-102D	SDG No.:	M1770
Lab Sample ID:	M1770-21	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	9170		1	3.91	20.0	ug/L	03/25/21 11:10	03/29/21 16:24	SW6020
7440-36-0	Antimony	2.54		1	0.12	2.00	ug/L	03/25/21 11:10	03/29/21 16:24	SW6020
7440-38-2	Arsenic	7.68		1	0.079	1.00	ug/L	03/25/21 11:10	03/29/21 16:24	SW6020
7440-39-3	Barium	115		1	0.28	10.0	ug/L	03/25/21 11:10	03/29/21 16:24	SW6020
7440-41-7	Beryllium	0.63	J	1	0.24	1.00	ug/L	03/25/21 11:10	03/29/21 16:24	SW6020
7440-43-9	Cadmium	0.21	J	1	0.20	1.00	ug/L	03/25/21 11:10	03/29/21 16:24	SW6020
7440-70-2	Calcium	22500		1	28.4	500	ug/L	03/25/21 11:10	03/29/21 16:24	SW6020
7440-47-3	Chromium	43.9		1	0.30	2.00	ug/L	03/25/21 11:10	03/29/21 16:24	SW6020
7440-48-4	Cobalt	10.3		1	0.054	1.00	ug/L	03/25/21 11:10	03/29/21 16:24	SW6020
7440-50-8	Copper	97.0		1	0.75	2.00	ug/L	03/25/21 11:10	03/29/21 16:24	SW6020
7439-89-6	Iron	15700		1	3.85	50.0	ug/L	03/25/21 11:10	03/29/21 16:24	SW6020
7439-92-1	Lead	82.2		1	0.49	1.00	ug/L	03/25/21 11:10	03/29/21 16:24	SW6020
7439-95-4	Magnesium	12400		1	8.29	500	ug/L	03/25/21 11:10	03/29/21 16:24	SW6020
7439-96-5	Manganese	818		1	0.37	1.00	ug/L	03/25/21 11:10	03/29/21 16:24	SW6020
7439-97-6	Mercury	0.48		1	0.078	0.20	ug/L	03/25/21 16:20	03/26/21 13:07	SW7470A
7440-02-0	Nickel	26.6		1	0.12	1.00	ug/L	03/25/21 11:10	03/29/21 16:24	SW6020
7440-09-7	Potassium	12400		1	17.0	500	ug/L	03/25/21 11:10	03/29/21 16:24	SW6020
7782-49-2	Selenium	2.81	J	1	1.97	5.00	ug/L	03/25/21 11:10	03/29/21 16:24	SW6020
7440-22-4	Silver	1.00	U	1	0.42	1.00	ug/L	03/25/21 11:10	03/29/21 16:24	SW6020
7440-23-5	Sodium	289000		1	38.5	500	ug/L	03/25/21 11:10	03/29/21 16:24	SW6020
7440-28-0	Thallium	0.13	J	1	0.080	1.00	ug/L	03/25/21 11:10	03/29/21 16:24	SW6020
7440-62-2	Vanadium	23.5		1	0.053	5.00	ug/L	03/25/21 11:10	03/29/21 16:24	SW6020
7440-66-6	Zinc	606		1	1.44	2.00	ug/L	03/25/21 11:10	03/29/21 16:24	SW6020

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/24/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/24/21
Client Sample ID:	MW-102S	SDG No.:	M1770
Lab Sample ID:	M1770-22	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	634		1	3.91	20.0	ug/L	03/25/21 11:10	03/29/21 17:03	SW6020
7440-36-0	Antimony	4.86		1	0.12	2.00	ug/L	03/25/21 11:10	03/29/21 17:03	SW6020
7440-38-2	Arsenic	0.71	J	1	0.079	1.00	ug/L	03/25/21 11:10	03/29/21 17:03	SW6020
7440-39-3	Barium	132		1	0.28	10.0	ug/L	03/25/21 11:10	03/29/21 17:03	SW6020
7440-41-7	Beryllium	1.00	U	1	0.24	1.00	ug/L	03/25/21 11:10	03/29/21 17:03	SW6020
7440-43-9	Cadmium	1.00	U	1	0.20	1.00	ug/L	03/25/21 11:10	03/29/21 17:03	SW6020
7440-70-2	Calcium	48200		1	28.4	500	ug/L	03/25/21 11:10	03/29/21 17:03	SW6020
7440-47-3	Chromium	5.48		1	0.30	2.00	ug/L	03/25/21 11:10	03/29/21 17:03	SW6020
7440-48-4	Cobalt	0.64	J	1	0.054	1.00	ug/L	03/25/21 11:10	03/29/21 17:03	SW6020
7440-50-8	Copper	7.23		1	0.75	2.00	ug/L	03/25/21 11:10	03/29/21 17:03	SW6020
7439-89-6	Iron	871		1	3.85	50.0	ug/L	03/25/21 11:10	03/29/21 17:03	SW6020
7439-92-1	Lead	3.13		1	0.49	1.00	ug/L	03/25/21 11:10	03/29/21 17:03	SW6020
7439-95-4	Magnesium	2820		1	8.29	500	ug/L	03/25/21 11:10	03/29/21 17:03	SW6020
7439-96-5	Manganese	34.8		1	0.37	1.00	ug/L	03/25/21 11:10	03/29/21 17:03	SW6020
7439-97-6	Mercury	0.20	U	1	0.078	0.20	ug/L	03/25/21 16:20	03/26/21 13:09	SW7470A
7440-02-0	Nickel	1.68		1	0.12	1.00	ug/L	03/25/21 11:10	03/29/21 17:03	SW6020
7440-09-7	Potassium	6640		1	17.0	500	ug/L	03/25/21 11:10	03/29/21 17:03	SW6020
7782-49-2	Selenium	5.00	U	1	1.97	5.00	ug/L	03/25/21 11:10	03/29/21 17:03	SW6020
7440-22-4	Silver	1.00	U	1	0.42	1.00	ug/L	03/25/21 11:10	03/29/21 17:03	SW6020
7440-23-5	Sodium	32700		1	38.5	500	ug/L	03/25/21 11:10	03/29/21 17:03	SW6020
7440-28-0	Thallium	0.090	J	1	0.080	1.00	ug/L	03/25/21 11:10	03/29/21 17:03	SW6020
7440-62-2	Vanadium	1.67	J	1	0.053	5.00	ug/L	03/25/21 11:10	03/29/21 17:03	SW6020
7440-66-6	Zinc	15.2		1	1.44	2.00	ug/L	03/25/21 11:10	03/29/21 17:03	SW6020

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/24/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/24/21
Client Sample ID:	MW-102I	SDG No.:	M1770
Lab Sample ID:	M1770-23	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	525		1	3.91	20.0	ug/L	03/25/21 11:10	03/29/21 17:06	SW6020
7440-36-0	Antimony	0.34	J	1	0.12	2.00	ug/L	03/25/21 11:10	03/29/21 17:06	SW6020
7440-38-2	Arsenic	0.62	J	1	0.079	1.00	ug/L	03/25/21 11:10	03/29/21 17:06	SW6020
7440-39-3	Barium	132		1	0.28	10.0	ug/L	03/25/21 11:10	03/29/21 17:06	SW6020
7440-41-7	Beryllium	1.00	U	1	0.24	1.00	ug/L	03/25/21 11:10	03/29/21 17:06	SW6020
7440-43-9	Cadmium	1.00	U	1	0.20	1.00	ug/L	03/25/21 11:10	03/29/21 17:06	SW6020
7440-70-2	Calcium	130000		1	28.4	500	ug/L	03/25/21 11:10	03/29/21 17:06	SW6020
7440-47-3	Chromium	2.49		1	0.30	2.00	ug/L	03/25/21 11:10	03/29/21 17:06	SW6020
7440-48-4	Cobalt	0.65	J	1	0.054	1.00	ug/L	03/25/21 11:10	03/29/21 17:06	SW6020
7440-50-8	Copper	8.36		1	0.75	2.00	ug/L	03/25/21 11:10	03/29/21 17:06	SW6020
7439-89-6	Iron	986		1	3.85	50.0	ug/L	03/25/21 11:10	03/29/21 17:06	SW6020
7439-92-1	Lead	5.81		1	0.49	1.00	ug/L	03/25/21 11:10	03/29/21 17:06	SW6020
7439-95-4	Magnesium	35200		1	8.29	500	ug/L	03/25/21 11:10	03/29/21 17:06	SW6020
7439-96-5	Manganese	107		1	0.37	1.00	ug/L	03/25/21 11:10	03/29/21 17:06	SW6020
7439-97-6	Mercury	0.20	U	1	0.078	0.20	ug/L	03/25/21 16:20	03/26/21 13:11	SW7470A
7440-02-0	Nickel	2.13		1	0.12	1.00	ug/L	03/25/21 11:10	03/29/21 17:06	SW6020
7440-09-7	Potassium	4190		1	17.0	500	ug/L	03/25/21 11:10	03/29/21 17:06	SW6020
7782-49-2	Selenium	5.00	U	1	1.97	5.00	ug/L	03/25/21 11:10	03/29/21 17:06	SW6020
7440-22-4	Silver	1.00	U	1	0.42	1.00	ug/L	03/25/21 11:10	03/29/21 17:06	SW6020
7440-23-5	Sodium	130000		1	38.5	500	ug/L	03/25/21 11:10	03/29/21 17:06	SW6020
7440-28-0	Thallium	1.00	U	1	0.080	1.00	ug/L	03/25/21 11:10	03/29/21 17:06	SW6020
7440-62-2	Vanadium	2.45	J	1	0.053	5.00	ug/L	03/25/21 11:10	03/29/21 17:06	SW6020
7440-66-6	Zinc	27.4		1	1.44	2.00	ug/L	03/25/21 11:10	03/29/21 17:06	SW6020

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/24/21
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/24/21
Client Sample ID:	MW-107I	SDG No.:	M1770
Lab Sample ID:	M1770-24	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	566		1	3.91	20.0	ug/L	03/25/21 11:10	03/29/21 17:09	SW6020
7440-36-0	Antimony	0.33	J	1	0.12	2.00	ug/L	03/25/21 11:10	03/29/21 17:09	SW6020
7440-38-2	Arsenic	0.75	J	1	0.079	1.00	ug/L	03/25/21 11:10	03/29/21 17:09	SW6020
7440-39-3	Barium	131		1	0.28	10.0	ug/L	03/25/21 11:10	03/29/21 17:09	SW6020
7440-41-7	Beryllium	1.00	U	1	0.24	1.00	ug/L	03/25/21 11:10	03/29/21 17:09	SW6020
7440-43-9	Cadmium	1.00	U	1	0.20	1.00	ug/L	03/25/21 11:10	03/29/21 17:09	SW6020
7440-70-2	Calcium	132000		1	28.4	500	ug/L	03/25/21 11:10	03/29/21 17:09	SW6020
7440-47-3	Chromium	3.09		1	0.30	2.00	ug/L	03/25/21 11:10	03/29/21 17:09	SW6020
7440-48-4	Cobalt	0.86	J	1	0.054	1.00	ug/L	03/25/21 11:10	03/29/21 17:09	SW6020
7440-50-8	Copper	9.74		1	0.75	2.00	ug/L	03/25/21 11:10	03/29/21 17:09	SW6020
7439-89-6	Iron	1110		1	3.85	50.0	ug/L	03/25/21 11:10	03/29/21 17:09	SW6020
7439-92-1	Lead	6.45		1	0.49	1.00	ug/L	03/25/21 11:10	03/29/21 17:09	SW6020
7439-95-4	Magnesium	36700		1	8.29	500	ug/L	03/25/21 11:10	03/29/21 17:09	SW6020
7439-96-5	Manganese	116		1	0.37	1.00	ug/L	03/25/21 11:10	03/29/21 17:09	SW6020
7439-97-6	Mercury	0.20	U	1	0.078	0.20	ug/L	03/25/21 16:20	03/26/21 13:13	SW7470A
7440-02-0	Nickel	2.64		1	0.12	1.00	ug/L	03/25/21 11:10	03/29/21 17:09	SW6020
7440-09-7	Potassium	4390		1	17.0	500	ug/L	03/25/21 11:10	03/29/21 17:09	SW6020
7782-49-2	Selenium	5.00	U	1	1.97	5.00	ug/L	03/25/21 11:10	03/29/21 17:09	SW6020
7440-22-4	Silver	1.00	U	1	0.42	1.00	ug/L	03/25/21 11:10	03/29/21 17:09	SW6020
7440-23-5	Sodium	134000		1	38.5	500	ug/L	03/25/21 11:10	03/29/21 17:09	SW6020
7440-28-0	Thallium	1.00	U	1	0.080	1.00	ug/L	03/25/21 11:10	03/29/21 17:09	SW6020
7440-62-2	Vanadium	2.79	J	1	0.053	5.00	ug/L	03/25/21 11:10	03/29/21 17:09	SW6020
7440-66-6	Zinc	28.2		1	1.44	2.00	ug/L	03/25/21 11:10	03/29/21 17:09	SW6020

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

METAL CALIBRATION DATA

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: TRC Companies, Inc. **SDG No.:** M1770

Contract: TRCE03 **Lab Code:** CHEM **Case No.:** M1770 **SAS No.:** M1770

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV52	Mercury	3.93	4.0	98	90 - 110	CV	03/25/2021	10:19	LB113664

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: TRC Companies, Inc. **SDG No.:** M1770

Contract: TRCE03 **Lab Code:** CHEM **Case No.:** M1770 **SAS No.:** M1770

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV76	Mercury	5.07	5.0	101	90 - 110	CV	03/25/2021	10:24	LB113664
CCV77	Mercury	5.14	5.0	103	90 - 110	CV	03/25/2021	10:51	LB113664
CCV78	Mercury	4.64	5.0	93	90 - 110	CV	03/25/2021	11:18	LB113664
CCV79	Mercury	4.75	5.0	95	90 - 110	CV	03/25/2021	11:59	LB113664
CCV80	Mercury	4.71	5.0	94	90 - 110	CV	03/25/2021	12:26	LB113664
CCV81	Mercury	4.78	5.0	96	90 - 110	CV	03/25/2021	12:51	LB113664
CCV82	Mercury	4.75	5.0	95	90 - 110	CV	03/25/2021	13:09	LB113664

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: TRC Companies, Inc. **SDG No.:** M1770

Contract: TRCE03 **Lab Code:** CHEM **Case No.:** M1770 **SAS No.:** M1770

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV54	Mercury	3.71	4.0	93	90 - 110	CV	03/26/2021	11:59	LB113693

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: TRC Companies, Inc. **SDG No.:** M1770

Contract: TRCE03 **Lab Code:** CHEM **Case No.:** M1770 **SAS No.:** M1770

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV86	Mercury	5.21	5.0	104	90 - 110	CV	03/26/2021	12:06	LB113693
CCV87	Mercury	4.75	5.0	95	90 - 110	CV	03/26/2021	12:33	LB113693
CCV88	Mercury	5.16	5.0	103	90 - 110	CV	03/26/2021	13:00	LB113693
CCV89	Mercury	4.91	5.0	98	90 - 110	CV	03/26/2021	13:20	LB113693
CCV90	Mercury	4.85	5.0	97	90 - 110	CV	03/26/2021	13:34	LB113693

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: TRC Companies, Inc. **SDG No.:** M1770

Contract: TRCE03 **Lab Code:** CHEM **Case No.:** M1770 **SAS No.:** M1770

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	524	504	104	90 - 110	P	03/29/2021	13:27	LB113739
	Antimony	211	202	105	90 - 110	P	03/29/2021	13:27	LB113739
	Arsenic	214	199	108	90 - 110	P	03/29/2021	13:27	LB113739
	Barium	110	104	106	90 - 110	P	03/29/2021	13:27	LB113739
	Beryllium	107	103	104	90 - 110	P	03/29/2021	13:27	LB113739
	Cadmium	109	103	106	90 - 110	P	03/29/2021	13:27	LB113739
	Calcium	2080	2000	104	90 - 110	P	03/29/2021	13:27	LB113739
	Chromium	107	103	104	90 - 110	P	03/29/2021	13:27	LB113739
	Cobalt	110	104	106	90 - 110	P	03/29/2021	13:27	LB113739
	Copper	103	101	102	90 - 110	P	03/29/2021	13:27	LB113739
	Iron	2130	2020	106	90 - 110	P	03/29/2021	13:27	LB113739
	Lead	222	206	108	90 - 110	P	03/29/2021	13:27	LB113739
	Magnesium	1300	1198	108	90 - 110	P	03/29/2021	13:27	LB113739
	Manganese	104	105	99	90 - 110	P	03/29/2021	13:27	LB113739
	Nickel	111	105	106	90 - 110	P	03/29/2021	13:27	LB113739
	Potassium	2110	1988	106	90 - 110	P	03/29/2021	13:27	LB113739
	Selenium	216	206	105	90 - 110	P	03/29/2021	13:27	LB113739
	Silver	53.5	50.0	107	90 - 110	P	03/29/2021	13:27	LB113739
	Sodium	2170	2020	107	90 - 110	P	03/29/2021	13:27	LB113739
	Thallium	213	208	102	90 - 110	P	03/29/2021	13:27	LB113739
	Vanadium	106	101	105	90 - 110	P	03/29/2021	13:27	LB113739
	Zinc	202	202	100	90 - 110	P	03/29/2021	13:27	LB113739

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: TRC Companies, Inc. **SDG No.:** M1770

Contract: TRCE03 **Lab Code:** CHEM **Case No.:** M1770 **SAS No.:** M1770

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Aluminum	19.6	20.0	98	80 - 120	P	03/29/2021	13:54	LB113739
	Antimony	2.08	2.0	104	80 - 120	P	03/29/2021	13:54	LB113739
	Arsenic	1.00	1.0	100	80 - 120	P	03/29/2021	13:54	LB113739
	Barium	10.3	10.0	103	80 - 120	P	03/29/2021	13:54	LB113739
	Beryllium	1.04	1.0	104	80 - 120	P	03/29/2021	13:54	LB113739
	Cadmium	1.11	1.0	111	80 - 120	P	03/29/2021	13:54	LB113739
	Calcium	453	500	90	80 - 120	P	03/29/2021	13:54	LB113739
	Chromium	1.97	2.0	98	80 - 120	P	03/29/2021	13:54	LB113739
	Cobalt	1.06	1.0	106	80 - 120	P	03/29/2021	13:54	LB113739
	Copper	1.84	2.0	92	80 - 120	P	03/29/2021	13:54	LB113739
	Iron	44.2	50.0	88	80 - 120	P	03/29/2021	13:54	LB113739
	Lead	1.01	1.0	101	80 - 120	P	03/29/2021	13:54	LB113739
	Magnesium	509	500	102	80 - 120	P	03/29/2021	13:54	LB113739
	Manganese	1.03	1.0	103	80 - 120	P	03/29/2021	13:54	LB113739
	Nickel	1.13	1.0	113	80 - 120	P	03/29/2021	13:54	LB113739
	Potassium	490	500	98	80 - 120	P	03/29/2021	13:54	LB113739
	Selenium	5.12	5.0	102	80 - 120	P	03/29/2021	13:54	LB113739
	Silver	1.01	1.0	101	80 - 120	P	03/29/2021	13:54	LB113739
	Sodium	512	500	102	80 - 120	P	03/29/2021	13:54	LB113739
	Thallium	0.97	1.0	97	80 - 120	P	03/29/2021	13:54	LB113739
	Vanadium	5.09	5.0	102	80 - 120	P	03/29/2021	13:54	LB113739
	Zinc	2.39	2.0	120	80 - 120	P	03/29/2021	13:54	LB113739

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: TRC Companies, Inc. **SDG No.:** M1770

Contract: TRCE03 **Lab Code:** CHEM **Case No.:** M1770 **SAS No.:** M1770

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV22	Aluminum	49100	50000	98	90 - 110	P	03/29/2021	14:07	LB113739
	Antimony	529	500	106	90 - 110	P	03/29/2021	14:07	LB113739
	Arsenic	517	500	103	90 - 110	P	03/29/2021	14:07	LB113739
	Barium	2670	2500	107	90 - 110	P	03/29/2021	14:07	LB113739
	Beryllium	483	500	96	90 - 110	P	03/29/2021	14:07	LB113739
	Cadmium	523	500	104	90 - 110	P	03/29/2021	14:07	LB113739
	Calcium	257000	250000	103	90 - 110	P	03/29/2021	14:07	LB113739
	Chromium	518	500	104	90 - 110	P	03/29/2021	14:07	LB113739
	Cobalt	510	500	102	90 - 110	P	03/29/2021	14:07	LB113739
	Copper	5060	5000	101	90 - 110	P	03/29/2021	14:07	LB113739
	Iron	131000	125000	105	90 - 110	P	03/29/2021	14:07	LB113739
	Lead	2630	2500	105	90 - 110	P	03/29/2021	14:07	LB113739
	Magnesium	263000	250000	105	90 - 110	P	03/29/2021	14:07	LB113739
	Manganese	5190	5000	104	90 - 110	P	03/29/2021	14:07	LB113739
	Nickel	507	500	101	90 - 110	P	03/29/2021	14:07	LB113739
	Potassium	129000	125000	103	90 - 110	P	03/29/2021	14:07	LB113739
	Selenium	512	500	102	90 - 110	P	03/29/2021	14:07	LB113739
	Silver	543	500	109	90 - 110	P	03/29/2021	14:07	LB113739
	Sodium	261000	250000	104	90 - 110	P	03/29/2021	14:07	LB113739
	Thallium	520	500	104	90 - 110	P	03/29/2021	14:07	LB113739
	Vanadium	517	500	103	90 - 110	P	03/29/2021	14:07	LB113739
	Zinc	4990	5000	100	90 - 110	P	03/29/2021	14:07	LB113739
CCV23	Aluminum	48500	50000	97	90 - 110	P	03/29/2021	15:10	LB113739
	Antimony	492	500	98	90 - 110	P	03/29/2021	15:10	LB113739
	Arsenic	495	500	99	90 - 110	P	03/29/2021	15:10	LB113739
	Barium	2510	2500	100	90 - 110	P	03/29/2021	15:10	LB113739
	Beryllium	488	500	98	90 - 110	P	03/29/2021	15:10	LB113739
	Cadmium	511	500	102	90 - 110	P	03/29/2021	15:10	LB113739
	Calcium	248000	250000	99	90 - 110	P	03/29/2021	15:10	LB113739
	Chromium	511	500	102	90 - 110	P	03/29/2021	15:10	LB113739
	Cobalt	510	500	102	90 - 110	P	03/29/2021	15:10	LB113739
	Copper	5100	5000	102	90 - 110	P	03/29/2021	15:10	LB113739
	Iron	131000	125000	104	90 - 110	P	03/29/2021	15:10	LB113739
	Lead	2540	2500	102	90 - 110	P	03/29/2021	15:10	LB113739

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: TRC Companies, Inc. **SDG No.:** M1770

Contract: TRCE03 **Lab Code:** CHEM **Case No.:** M1770 **SAS No.:** M1770

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV23	Magnesium	258000	250000	103	90 - 110	P	03/29/2021	15:10	LB113739
	Manganese	5170	5000	103	90 - 110	P	03/29/2021	15:10	LB113739
	Nickel	504	500	101	90 - 110	P	03/29/2021	15:10	LB113739
	Potassium	127000	125000	102	90 - 110	P	03/29/2021	15:10	LB113739
	Selenium	509	500	102	90 - 110	P	03/29/2021	15:10	LB113739
	Silver	494	500	99	90 - 110	P	03/29/2021	15:10	LB113739
	Sodium	257000	250000	103	90 - 110	P	03/29/2021	15:10	LB113739
	Thallium	505	500	101	90 - 110	P	03/29/2021	15:10	LB113739
	Vanadium	513	500	103	90 - 110	P	03/29/2021	15:10	LB113739
	Zinc	5010	5000	100	90 - 110	P	03/29/2021	15:10	LB113739
CCV24	Aluminum	47700	50000	96	90 - 110	P	03/29/2021	15:54	LB113739
	Antimony	492	500	98	90 - 110	P	03/29/2021	15:54	LB113739
	Arsenic	487	500	97	90 - 110	P	03/29/2021	15:54	LB113739
	Barium	2550	2500	102	90 - 110	P	03/29/2021	15:54	LB113739
	Beryllium	493	500	98	90 - 110	P	03/29/2021	15:54	LB113739
	Cadmium	510	500	102	90 - 110	P	03/29/2021	15:54	LB113739
	Calcium	250000	250000	100	90 - 110	P	03/29/2021	15:54	LB113739
	Chromium	501	500	100	90 - 110	P	03/29/2021	15:54	LB113739
	Cobalt	500	500	100	90 - 110	P	03/29/2021	15:54	LB113739
	Copper	5010	5000	100	90 - 110	P	03/29/2021	15:54	LB113739
	Iron	131000	125000	104	90 - 110	P	03/29/2021	15:54	LB113739
	Lead	2540	2500	102	90 - 110	P	03/29/2021	15:54	LB113739
	Magnesium	254000	250000	102	90 - 110	P	03/29/2021	15:54	LB113739
	Manganese	5130	5000	103	90 - 110	P	03/29/2021	15:54	LB113739
	Nickel	494	500	99	90 - 110	P	03/29/2021	15:54	LB113739
	Potassium	124000	125000	100	90 - 110	P	03/29/2021	15:54	LB113739
	Selenium	498	500	100	90 - 110	P	03/29/2021	15:54	LB113739
	Silver	495	500	99	90 - 110	P	03/29/2021	15:54	LB113739
	Sodium	252000	250000	101	90 - 110	P	03/29/2021	15:54	LB113739
	Thallium	502	500	100	90 - 110	P	03/29/2021	15:54	LB113739
	Vanadium	504	500	101	90 - 110	P	03/29/2021	15:54	LB113739
	Zinc	4880	5000	98	90 - 110	P	03/29/2021	15:54	LB113739
CCV25	Aluminum	48700	50000	97	90 - 110	P	03/29/2021	16:39	LB113739
	Antimony	481	500	96	90 - 110	P	03/29/2021	16:39	LB113739

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: TRC Companies, Inc. **SDG No.:** M1770

Contract: TRCE03 **Lab Code:** CHEM **Case No.:** M1770 **SAS No.:** M1770

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV25	Arsenic	478	500	96	90 - 110	P	03/29/2021	16:39	LB113739
	Barium	2510	2500	101	90 - 110	P	03/29/2021	16:39	LB113739
	Beryllium	501	500	100	90 - 110	P	03/29/2021	16:39	LB113739
	Cadmium	497	500	100	90 - 110	P	03/29/2021	16:39	LB113739
	Calcium	247000	250000	99	90 - 110	P	03/29/2021	16:39	LB113739
	Chromium	512	500	102	90 - 110	P	03/29/2021	16:39	LB113739
	Cobalt	512	500	102	90 - 110	P	03/29/2021	16:39	LB113739
	Copper	5200	5000	104	90 - 110	P	03/29/2021	16:39	LB113739
	Iron	133000	125000	106	90 - 110	P	03/29/2021	16:39	LB113739
	Lead	2560	2500	102	90 - 110	P	03/29/2021	16:39	LB113739
	Magnesium	261000	250000	104	90 - 110	P	03/29/2021	16:39	LB113739
	Manganese	5290	5000	106	90 - 110	P	03/29/2021	16:39	LB113739
	Nickel	509	500	102	90 - 110	P	03/29/2021	16:39	LB113739
	Potassium	126000	125000	101	90 - 110	P	03/29/2021	16:39	LB113739
	Selenium	484	500	97	90 - 110	P	03/29/2021	16:39	LB113739
	Silver	483	500	97	90 - 110	P	03/29/2021	16:39	LB113739
	Sodium	258000	250000	103	90 - 110	P	03/29/2021	16:39	LB113739
	Thallium	503	500	101	90 - 110	P	03/29/2021	16:39	LB113739
	Vanadium	516	500	103	90 - 110	P	03/29/2021	16:39	LB113739
	Zinc	4980	5000	100	90 - 110	P	03/29/2021	16:39	LB113739
CCV26	Aluminum	49300	50000	99	90 - 110	P	03/29/2021	17:48	LB113739
	Antimony	484	500	97	90 - 110	P	03/29/2021	17:48	LB113739
	Arsenic	490	500	98	90 - 110	P	03/29/2021	17:48	LB113739
	Barium	2590	2500	104	90 - 110	P	03/29/2021	17:48	LB113739
	Beryllium	522	500	104	90 - 110	P	03/29/2021	17:48	LB113739
	Cadmium	513	500	103	90 - 110	P	03/29/2021	17:48	LB113739
	Calcium	252000	250000	101	90 - 110	P	03/29/2021	17:48	LB113739
	Chromium	516	500	103	90 - 110	P	03/29/2021	17:48	LB113739
	Cobalt	512	500	102	90 - 110	P	03/29/2021	17:48	LB113739
	Copper	5210	5000	104	90 - 110	P	03/29/2021	17:48	LB113739
	Iron	133000	125000	107	90 - 110	P	03/29/2021	17:48	LB113739
	Lead	2580	2500	103	90 - 110	P	03/29/2021	17:48	LB113739
	Magnesium	266000	250000	106	90 - 110	P	03/29/2021	17:48	LB113739
	Manganese	5300	5000	106	90 - 110	P	03/29/2021	17:48	LB113739

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: TRC Companies, Inc. **SDG No.:** M1770

Contract: TRCE03 **Lab Code:** CHEM **Case No.:** M1770 **SAS No.:** M1770

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV26	Nickel	509	500	102	90 - 110	P	03/29/2021	17:48	LB113739
	Potassium	128000	125000	102	90 - 110	P	03/29/2021	17:48	LB113739
	Selenium	498	500	100	90 - 110	P	03/29/2021	17:48	LB113739
	Silver	496	500	99	90 - 110	P	03/29/2021	17:48	LB113739
	Sodium	263000	250000	105	90 - 110	P	03/29/2021	17:48	LB113739
	Thallium	514	500	103	90 - 110	P	03/29/2021	17:48	LB113739
	Vanadium	517	500	103	90 - 110	P	03/29/2021	17:48	LB113739
	Zinc	5040	5000	101	90 - 110	P	03/29/2021	17:48	LB113739
CCV27	Aluminum	49100	50000	98	90 - 110	P	03/29/2021	18:35	LB113739
	Antimony	493	500	99	90 - 110	P	03/29/2021	18:35	LB113739
	Arsenic	493	500	99	90 - 110	P	03/29/2021	18:35	LB113739
	Barium	2580	2500	103	90 - 110	P	03/29/2021	18:35	LB113739
	Beryllium	550	500	110	90 - 110	P	03/29/2021	18:35	LB113739
	Cadmium	523	500	105	90 - 110	P	03/29/2021	18:35	LB113739
	Calcium	250000	250000	100	90 - 110	P	03/29/2021	18:35	LB113739
	Chromium	516	500	103	90 - 110	P	03/29/2021	18:35	LB113739
	Cobalt	512	500	102	90 - 110	P	03/29/2021	18:35	LB113739
	Copper	5210	5000	104	90 - 110	P	03/29/2021	18:35	LB113739
	Iron	132000	125000	106	90 - 110	P	03/29/2021	18:35	LB113739
	Lead	2610	2500	104	90 - 110	P	03/29/2021	18:35	LB113739
	Magnesium	264000	250000	106	90 - 110	P	03/29/2021	18:35	LB113739
	Manganese	5270	5000	105	90 - 110	P	03/29/2021	18:35	LB113739
	Nickel	511	500	102	90 - 110	P	03/29/2021	18:35	LB113739
	Potassium	127000	125000	102	90 - 110	P	03/29/2021	18:35	LB113739
	Selenium	502	500	100	90 - 110	P	03/29/2021	18:35	LB113739
	Silver	500	500	100	90 - 110	P	03/29/2021	18:35	LB113739
	Sodium	262000	250000	105	90 - 110	P	03/29/2021	18:35	LB113739
	Thallium	525	500	105	90 - 110	P	03/29/2021	18:35	LB113739
	Vanadium	517	500	103	90 - 110	P	03/29/2021	18:35	LB113739
	Zinc	5010	5000	100	90 - 110	P	03/29/2021	18:35	LB113739
CCV28	Aluminum	48800	50000	98	90 - 110	P	03/29/2021	19:13	LB113739
	Antimony	494	500	99	90 - 110	P	03/29/2021	19:13	LB113739
	Arsenic	492	500	98	90 - 110	P	03/29/2021	19:13	LB113739
	Barium	2610	2500	104	90 - 110	P	03/29/2021	19:13	LB113739

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: TRC Companies, Inc. **SDG No.:** M1770

Contract: TRCE03 **Lab Code:** CHEM **Case No.:** M1770 **SAS No.:** M1770

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV28	Beryllium	547	500	109	90 - 110	P	03/29/2021	19:13	LB113739
	Cadmium	521	500	104	90 - 110	P	03/29/2021	19:13	LB113739
	Calcium	251000	250000	101	90 - 110	P	03/29/2021	19:13	LB113739
	Chromium	509	500	102	90 - 110	P	03/29/2021	19:13	LB113739
	Cobalt	509	500	102	90 - 110	P	03/29/2021	19:13	LB113739
	Copper	5180	5000	104	90 - 110	P	03/29/2021	19:13	LB113739
	Iron	132000	125000	106	90 - 110	P	03/29/2021	19:13	LB113739
	Lead	2580	2500	103	90 - 110	P	03/29/2021	19:13	LB113739
	Magnesium	262000	250000	105	90 - 110	P	03/29/2021	19:13	LB113739
	Manganese	5250	5000	105	90 - 110	P	03/29/2021	19:13	LB113739
	Nickel	501	500	100	90 - 110	P	03/29/2021	19:13	LB113739
	Potassium	128000	125000	102	90 - 110	P	03/29/2021	19:13	LB113739
	Selenium	501	500	100	90 - 110	P	03/29/2021	19:13	LB113739
	Silver	496	500	99	90 - 110	P	03/29/2021	19:13	LB113739
	Sodium	261000	250000	104	90 - 110	P	03/29/2021	19:13	LB113739
	Thallium	514	500	103	90 - 110	P	03/29/2021	19:13	LB113739
	Vanadium	511	500	102	90 - 110	P	03/29/2021	19:13	LB113739
	Zinc	4970	5000	99	90 - 110	P	03/29/2021	19:13	LB113739
CCV29	Aluminum	48400	50000	97	90 - 110	P	03/29/2021	19:30	LB113739
	Antimony	489	500	98	90 - 110	P	03/29/2021	19:30	LB113739
	Arsenic	482	500	96	90 - 110	P	03/29/2021	19:30	LB113739
	Barium	2560	2500	102	90 - 110	P	03/29/2021	19:30	LB113739
	Beryllium	536	500	107	90 - 110	P	03/29/2021	19:30	LB113739
	Cadmium	502	500	100	90 - 110	P	03/29/2021	19:30	LB113739
	Calcium	253000	250000	101	90 - 110	P	03/29/2021	19:30	LB113739
	Chromium	507	500	101	90 - 110	P	03/29/2021	19:30	LB113739
	Cobalt	507	500	101	90 - 110	P	03/29/2021	19:30	LB113739
	Copper	5160	5000	103	90 - 110	P	03/29/2021	19:30	LB113739
	Iron	132000	125000	106	90 - 110	P	03/29/2021	19:30	LB113739
	Lead	2600	2500	104	90 - 110	P	03/29/2021	19:30	LB113739
	Magnesium	259000	250000	104	90 - 110	P	03/29/2021	19:30	LB113739
	Manganese	5240	5000	105	90 - 110	P	03/29/2021	19:30	LB113739
	Nickel	503	500	100	90 - 110	P	03/29/2021	19:30	LB113739
	Potassium	126000	125000	101	90 - 110	P	03/29/2021	19:30	LB113739

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: TRC Companies, Inc. **SDG No.:** M1770

Contract: TRCE03 **Lab Code:** CHEM **Case No.:** M1770 **SAS No.:** M1770

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV29	Selenium	505	500	101	90 - 110	P	03/29/2021	19:30	LB113739
	Silver	495	500	99	90 - 110	P	03/29/2021	19:30	LB113739
	Sodium	257000	250000	103	90 - 110	P	03/29/2021	19:30	LB113739
	Thallium	522	500	104	90 - 110	P	03/29/2021	19:30	LB113739
	Vanadium	511	500	102	90 - 110	P	03/29/2021	19:30	LB113739
	Zinc	4980	5000	100	90 - 110	P	03/29/2021	19:30	LB113739

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Metals

- 2b -

CRDL STANDARD FOR AA & ICP

Client: TRC Companies, Inc. **SDG No.:** M1770

Contract: TRCE03 **Lab Code:** CHEM **Case No.:** M1770 **SAS No.:** M1770

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRA	Mercury	0.18	0.2	91	40 - 160	CV	03/25/2021	10:28	LB113664
CRA	Mercury	0.22	0.2	110	40 - 160	CV	03/26/2021	12:10	LB113693
CRI	Aluminum	16.6	20.0	83	70 - 130	P	03/29/2021	14:20	LB113739
	Antimony	2.01	2.0	100	70 - 130	P	03/29/2021	14:20	LB113739
	Arsenic	0.96	1.0	96	70 - 130	P	03/29/2021	14:20	LB113739
	Barium	10.2	10.0	102	70 - 130	P	03/29/2021	14:20	LB113739
	Beryllium	0.98	1.0	98	70 - 130	P	03/29/2021	14:20	LB113739
	Cadmium	1.01	1.0	101	70 - 130	P	03/29/2021	14:20	LB113739
	Calcium	462	500	92	70 - 130	P	03/29/2021	14:20	LB113739
	Chromium	1.92	2.0	96	70 - 130	P	03/29/2021	14:20	LB113739
	Cobalt	1.03	1.0	103	50 - 150	P	03/29/2021	14:20	LB113739
	Copper	2.21	2.0	110	70 - 130	P	03/29/2021	14:20	LB113739
	Iron	44.9	50.0	90	70 - 130	P	03/29/2021	14:20	LB113739
	Lead	1.06	1.0	106	70 - 130	P	03/29/2021	14:20	LB113739
	Magnesium	507	500	102	70 - 130	P	03/29/2021	14:20	LB113739
	Manganese	1.06	1.0	106	50 - 150	P	03/29/2021	14:20	LB113739
	Nickel	1.02	1.0	102	70 - 130	P	03/29/2021	14:20	LB113739
	Potassium	492	500	98	70 - 130	P	03/29/2021	14:20	LB113739
	Selenium	4.87	5.0	97	70 - 130	P	03/29/2021	14:20	LB113739
	Silver	0.94	1.0	94	70 - 130	P	03/29/2021	14:20	LB113739
	Sodium	553	500	111	70 - 130	P	03/29/2021	14:20	LB113739
	Thallium	0.99	1.0	99	70 - 130	P	03/29/2021	14:20	LB113739
	Vanadium	5.06	5.0	101	70 - 130	P	03/29/2021	14:20	LB113739
	Zinc	2.38	2.0	119	50 - 150	P	03/29/2021	14:20	LB113739

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: TRC Companies, Inc. **SDG No.:** M1770

Contract: TRCE03 **Lab Code:** CHEM **Case No.:** M1770 **SAS No.:** M1770

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB52	Mercury	0.20	+/-0.20	U	0.20	CV	03/25/2021	10:22	LB113664

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: TRC Companies, Inc. **SDG No.:** M1770

Contract: TRCE03 **Lab Code:** CHEM **Case No.:** M1770 **SAS No.:** M1770

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB76	Mercury	0.20	+/-0.20	U	0.20	CV	03/25/2021	10:26	LB113664
CCB77	Mercury	0.20	+/-0.20	U	0.20	CV	03/25/2021	10:53	LB113664
CCB78	Mercury	0.20	+/-0.20	U	0.20	CV	03/25/2021	11:20	LB113664
CCB79	Mercury	0.20	+/-0.20	U	0.20	CV	03/25/2021	12:01	LB113664
CCB80	Mercury	0.20	+/-0.20	U	0.20	CV	03/25/2021	12:28	LB113664
CCB81	Mercury	0.20	+/-0.20	U	0.20	CV	03/25/2021	12:53	LB113664
CCB82	Mercury	0.20	+/-0.20	U	0.20	CV	03/25/2021	13:11	LB113664

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: TRC Companies, Inc. **SDG No.:** M1770

Contract: TRCE03 **Lab Code:** CHEM **Case No.:** M1770 **SAS No.:** M1770

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB54	Mercury	0.20	+/-0.20	U	0.20	CV	03/26/2021	12:01	LB113693

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: TRC Companies, Inc. **SDG No.:** M1770

Contract: TRCE03 **Lab Code:** CHEM **Case No.:** M1770 **SAS No.:** M1770

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB86	Mercury	0.20	+/-0.20	U	0.20	CV	03/26/2021	12:08	LB113693
CCB87	Mercury	0.20	+/-0.20	U	0.20	CV	03/26/2021	12:35	LB113693
CCB88	Mercury	0.20	+/-0.20	U	0.20	CV	03/26/2021	13:02	LB113693
CCB89	Mercury	0.20	+/-0.20	U	0.20	CV	03/26/2021	13:22	LB113693
CCB90	Mercury	0.20	+/-0.20	U	0.20	CV	03/26/2021	13:36	LB113693

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: TRC Companies, Inc. **SDG No.:** M1770

Contract: TRCE03 **Lab Code:** CHEM **Case No.:** M1770 **SAS No.:** M1770

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	20.0	+/-20.0	U	20.0	P	03/29/2021	13:58	LB113739
	Antimony	2.00	+/-2.00	U	2.00	P	03/29/2021	13:58	LB113739
	Arsenic	1.00	+/-1.00	U	1.00	P	03/29/2021	13:58	LB113739
	Barium	10.0	+/-10.0	U	10.0	P	03/29/2021	13:58	LB113739
	Beryllium	1.00	+/-1.00	U	1.00	P	03/29/2021	13:58	LB113739
	Cadmium	1.00	+/-1.00	U	1.00	P	03/29/2021	13:58	LB113739
	Calcium	500	+/-500	U	500	P	03/29/2021	13:58	LB113739
	Chromium	2.00	+/-2.00	U	2.00	P	03/29/2021	13:58	LB113739
	Cobalt	1.00	+/-1.00	U	1.00	P	03/29/2021	13:58	LB113739
	Copper	2.00	+/-2.00	U	2.00	P	03/29/2021	13:58	LB113739
	Iron	50.0	+/-50.0	U	50.0	P	03/29/2021	13:58	LB113739
	Lead	1.00	+/-1.00	U	1.00	P	03/29/2021	13:58	LB113739
	Magnesium	500	+/-500	U	500	P	03/29/2021	13:58	LB113739
	Manganese	1.00	+/-1.00	U	1.00	P	03/29/2021	13:58	LB113739
	Nickel	1.00	+/-1.00	U	1.00	P	03/29/2021	13:58	LB113739
	Potassium	500	+/-500	U	500	P	03/29/2021	13:58	LB113739
	Selenium	5.00	+/-5.00	U	5.00	P	03/29/2021	13:58	LB113739
	Silver	1.00	+/-1.00	U	1.00	P	03/29/2021	13:58	LB113739
	Sodium	500	+/-500	U	500	P	03/29/2021	13:58	LB113739
	Thallium	1.00	+/-1.00	U	1.00	P	03/29/2021	13:58	LB113739
	Vanadium	5.00	+/-5.00	U	5.00	P	03/29/2021	13:58	LB113739
	Zinc	2.00	+/-2.00	U	2.00	P	03/29/2021	13:58	LB113739

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: TRC Companies, Inc. **SDG No.:** M1770

Contract: TRCE03 **Lab Code:** CHEM **Case No.:** M1770 **SAS No.:** M1770

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB22	Aluminum	20.0	+/-20.0	U	20.0	P	03/29/2021	14:17	LB113739
	Antimony	2.00	+/-2.00	U	2.00	P	03/29/2021	14:17	LB113739
	Arsenic	1.00	+/-1.00	U	1.00	P	03/29/2021	14:17	LB113739
	Barium	10.0	+/-10.0	U	10.0	P	03/29/2021	14:17	LB113739
	Beryllium	1.00	+/-1.00	U	1.00	P	03/29/2021	14:17	LB113739
	Cadmium	1.00	+/-1.00	U	1.00	P	03/29/2021	14:17	LB113739
	Calcium	500	+/-500	U	500	P	03/29/2021	14:17	LB113739
	Chromium	2.00	+/-2.00	U	2.00	P	03/29/2021	14:17	LB113739
	Cobalt	1.00	+/-1.00	U	1.00	P	03/29/2021	14:17	LB113739
	Copper	2.00	+/-2.00	U	2.00	P	03/29/2021	14:17	LB113739
	Iron	50.0	+/-50.0	U	50.0	P	03/29/2021	14:17	LB113739
	Lead	1.00	+/-1.00	U	1.00	P	03/29/2021	14:17	LB113739
	Magnesium	500	+/-500	U	500	P	03/29/2021	14:17	LB113739
	Manganese	1.00	+/-1.00	U	1.00	P	03/29/2021	14:17	LB113739
	Nickel	1.00	+/-1.00	U	1.00	P	03/29/2021	14:17	LB113739
	Potassium	500	+/-500	U	500	P	03/29/2021	14:17	LB113739
	Selenium	5.00	+/-5.00	U	5.00	P	03/29/2021	14:17	LB113739
	Silver	1.00	+/-1.00	U	1.00	P	03/29/2021	14:17	LB113739
	Sodium	53.0	+/-500	J	500	P	03/29/2021	14:17	LB113739
	Thallium	1.00	+/-1.00	U	1.00	P	03/29/2021	14:17	LB113739
	Vanadium	5.00	+/-5.00	U	5.00	P	03/29/2021	14:17	LB113739
	Zinc	2.00	+/-2.00	U	2.00	P	03/29/2021	14:17	LB113739
CCB23	Aluminum	20.0	+/-20.0	U	20.0	P	03/29/2021	15:20	LB113739
	Antimony	2.00	+/-2.00	U	2.00	P	03/29/2021	15:20	LB113739
	Arsenic	1.00	+/-1.00	U	1.00	P	03/29/2021	15:20	LB113739
	Barium	10.0	+/-10.0	U	10.0	P	03/29/2021	15:20	LB113739
	Beryllium	1.00	+/-1.00	U	1.00	P	03/29/2021	15:20	LB113739
	Cadmium	1.00	+/-1.00	U	1.00	P	03/29/2021	15:20	LB113739
	Calcium	500	+/-500	U	500	P	03/29/2021	15:20	LB113739
	Chromium	2.00	+/-2.00	U	2.00	P	03/29/2021	15:20	LB113739
	Cobalt	1.00	+/-1.00	U	1.00	P	03/29/2021	15:20	LB113739
	Copper	2.00	+/-2.00	U	2.00	P	03/29/2021	15:20	LB113739
	Iron	50.0	+/-50.0	U	50.0	P	03/29/2021	15:20	LB113739
	Lead	0.49	+/-1.00	J	1.00	P	03/29/2021	15:20	LB113739
	Magnesium	500	+/-500	U	500	P	03/29/2021	15:20	LB113739
	Manganese	1.00	+/-1.00	U	1.00	P	03/29/2021	15:20	LB113739
	Nickel	1.00	+/-1.00	U	1.00	P	03/29/2021	15:20	LB113739
	Potassium	500	+/-500	U	500	P	03/29/2021	15:20	LB113739
	Selenium	5.00	+/-5.00	U	5.00	P	03/29/2021	15:20	LB113739
	Silver	1.00	+/-1.00	U	1.00	P	03/29/2021	15:20	LB113739

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: TRC Companies, Inc. **SDG No.:** M1770

Contract: TRCE03 **Lab Code:** CHEM **Case No.:** M1770 **SAS No.:** M1770

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB23	Sodium	143	+/-500	J	500	P	03/29/2021	15:20	LB113739
	Thallium	1.00	+/-1.00	U	1.00	P	03/29/2021	15:20	LB113739
	Vanadium	5.00	+/-5.00	U	5.00	P	03/29/2021	15:20	LB113739
	Zinc	2.00	+/-2.00	U	2.00	P	03/29/2021	15:20	LB113739
CCB24	Aluminum	20.0	+/-20.0	U	20.0	P	03/29/2021	16:04	LB113739
	Antimony	2.00	+/-2.00	U	2.00	P	03/29/2021	16:04	LB113739
	Arsenic	1.00	+/-1.00	U	1.00	P	03/29/2021	16:04	LB113739
	Barium	10.0	+/-10.0	U	10.0	P	03/29/2021	16:04	LB113739
	Beryllium	1.00	+/-1.00	U	1.00	P	03/29/2021	16:04	LB113739
	Cadmium	1.00	+/-1.00	U	1.00	P	03/29/2021	16:04	LB113739
	Calcium	500	+/-500	U	500	P	03/29/2021	16:04	LB113739
	Chromium	2.00	+/-2.00	U	2.00	P	03/29/2021	16:04	LB113739
	Cobalt	1.00	+/-1.00	U	1.00	P	03/29/2021	16:04	LB113739
	Copper	2.00	+/-2.00	U	2.00	P	03/29/2021	16:04	LB113739
	Iron	50.0	+/-50.0	U	50.0	P	03/29/2021	16:04	LB113739
	Lead	1.00	+/-1.00	U	1.00	P	03/29/2021	16:04	LB113739
	Magnesium	500	+/-500	U	500	P	03/29/2021	16:04	LB113739
	Manganese	1.00	+/-1.00	U	1.00	P	03/29/2021	16:04	LB113739
	Nickel	1.00	+/-1.00	U	1.00	P	03/29/2021	16:04	LB113739
	Potassium	500	+/-500	U	500	P	03/29/2021	16:04	LB113739
	Selenium	5.00	+/-5.00	U	5.00	P	03/29/2021	16:04	LB113739
	Silver	1.00	+/-1.00	U	1.00	P	03/29/2021	16:04	LB113739
	Sodium	360	+/-500	J	500	P	03/29/2021	16:04	LB113739
	Thallium	1.00	+/-1.00	U	1.00	P	03/29/2021	16:04	LB113739
	Vanadium	5.00	+/-5.00	U	5.00	P	03/29/2021	16:04	LB113739
	Zinc	2.00	+/-2.00	U	2.00	P	03/29/2021	16:04	LB113739
CCB25	Aluminum	20.0	+/-20.0	U	20.0	P	03/29/2021	16:52	LB113739
	Antimony	2.00	+/-2.00	U	2.00	P	03/29/2021	16:52	LB113739
	Arsenic	1.00	+/-1.00	U	1.00	P	03/29/2021	16:52	LB113739
	Barium	10.0	+/-10.0	U	10.0	P	03/29/2021	16:52	LB113739
	Beryllium	1.00	+/-1.00	U	1.00	P	03/29/2021	16:52	LB113739
	Cadmium	1.00	+/-1.00	U	1.00	P	03/29/2021	16:52	LB113739
	Calcium	500	+/-500	U	500	P	03/29/2021	16:52	LB113739
	Chromium	2.00	+/-2.00	U	2.00	P	03/29/2021	16:52	LB113739
	Cobalt	1.00	+/-1.00	U	1.00	P	03/29/2021	16:52	LB113739
	Copper	2.00	+/-2.00	U	2.00	P	03/29/2021	16:52	LB113739
	Iron	50.0	+/-50.0	U	50.0	P	03/29/2021	16:52	LB113739
	Lead	1.00	+/-1.00	U	1.00	P	03/29/2021	16:52	LB113739
	Magnesium	500	+/-500	U	500	P	03/29/2021	16:52	LB113739
	Manganese	1.00	+/-1.00	U	1.00	P	03/29/2021	16:52	LB113739

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: TRC Companies, Inc. **SDG No.:** M1770

Contract: TRCE03 **Lab Code:** CHEM **Case No.:** M1770 **SAS No.:** M1770

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB25	Nickel	1.00	+/-1.00	U	1.00	P	03/29/2021	16:52	LB113739
	Potassium	500	+/-500	U	500	P	03/29/2021	16:52	LB113739
	Selenium	5.00	+/-5.00	U	5.00	P	03/29/2021	16:52	LB113739
	Silver	1.00	+/-1.00	U	1.00	P	03/29/2021	16:52	LB113739
	Sodium	436	+/-500	J	500	P	03/29/2021	16:52	LB113739
	Thallium	1.00	+/-1.00	U	1.00	P	03/29/2021	16:52	LB113739
	Vanadium	5.00	+/-5.00	U	5.00	P	03/29/2021	16:52	LB113739
	Zinc	2.00	+/-2.00	U	2.00	P	03/29/2021	16:52	LB113739
CCB26	Aluminum	20.0	+/-20.0	U	20.0	P	03/29/2021	18:17	LB113739
	Antimony	2.00	+/-2.00	U	2.00	P	03/29/2021	18:17	LB113739
	Arsenic	1.00	+/-1.00	U	1.00	P	03/29/2021	18:17	LB113739
	Barium	10.0	+/-10.0	U	10.0	P	03/29/2021	18:17	LB113739
	Beryllium	1.00	+/-1.00	U	1.00	P	03/29/2021	18:17	LB113739
	Cadmium	1.00	+/-1.00	U	1.00	P	03/29/2021	18:17	LB113739
	Calcium	500	+/-500	U	500	P	03/29/2021	18:17	LB113739
	Chromium	2.00	+/-2.00	U	2.00	P	03/29/2021	18:17	LB113739
	Cobalt	1.00	+/-1.00	U	1.00	P	03/29/2021	18:17	LB113739
	Copper	2.00	+/-2.00	U	2.00	P	03/29/2021	18:17	LB113739
	Iron	50.0	+/-50.0	U	50.0	P	03/29/2021	18:17	LB113739
	Lead	1.00	+/-1.00	U	1.00	P	03/29/2021	18:17	LB113739
	Magnesium	500	+/-500	U	500	P	03/29/2021	18:17	LB113739
	Manganese	1.00	+/-1.00	U	1.00	P	03/29/2021	18:17	LB113739
	Nickel	1.00	+/-1.00	U	1.00	P	03/29/2021	18:17	LB113739
	Potassium	500	+/-500	U	500	P	03/29/2021	18:17	LB113739
	Selenium	5.00	+/-5.00	U	5.00	P	03/29/2021	18:17	LB113739
	Silver	1.00	+/-1.00	U	1.00	P	03/29/2021	18:17	LB113739
	Sodium	470	+/-500	J	500	P	03/29/2021	18:17	LB113739
	Thallium	1.00	+/-1.00	U	1.00	P	03/29/2021	18:17	LB113739
	Vanadium	5.00	+/-5.00	U	5.00	P	03/29/2021	18:17	LB113739
	Zinc	2.00	+/-2.00	U	2.00	P	03/29/2021	18:17	LB113739
CCB27	Aluminum	20.0	+/-20.0	U	20.0	P	03/29/2021	18:42	LB113739
	Antimony	2.00	+/-2.00	U	2.00	P	03/29/2021	18:42	LB113739
	Arsenic	1.00	+/-1.00	U	1.00	P	03/29/2021	18:42	LB113739
	Barium	10.0	+/-10.0	U	10.0	P	03/29/2021	18:42	LB113739
	Beryllium	1.00	+/-1.00	U	1.00	P	03/29/2021	18:42	LB113739
	Cadmium	1.00	+/-1.00	U	1.00	P	03/29/2021	18:42	LB113739
	Calcium	500	+/-500	U	500	P	03/29/2021	18:42	LB113739
	Chromium	2.00	+/-2.00	U	2.00	P	03/29/2021	18:42	LB113739
	Cobalt	1.00	+/-1.00	U	1.00	P	03/29/2021	18:42	LB113739
	Copper	2.00	+/-2.00	U	2.00	P	03/29/2021	18:42	LB113739

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: TRC Companies, Inc. **SDG No.:** M1770

Contract: TRCE03 **Lab Code:** CHEM **Case No.:** M1770 **SAS No.:** M1770

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB27	Iron	50.0	+/-50.0	U	50.0	P	03/29/2021	18:42	LB113739
	Lead	1.00	+/-1.00	U	1.00	P	03/29/2021	18:42	LB113739
	Magnesium	500	+/-500	U	500	P	03/29/2021	18:42	LB113739
	Manganese	1.00	+/-1.00	U	1.00	P	03/29/2021	18:42	LB113739
	Nickel	1.00	+/-1.00	U	1.00	P	03/29/2021	18:42	LB113739
	Potassium	17.1	+/-500	J	500	P	03/29/2021	18:42	LB113739
	Selenium	5.00	+/-5.00	U	5.00	P	03/29/2021	18:42	LB113739
	Silver	1.00	+/-1.00	U	1.00	P	03/29/2021	18:42	LB113739
	Sodium	483	+/-500	J	500	P	03/29/2021	18:42	LB113739
	Thallium	1.00	+/-1.00	U	1.00	P	03/29/2021	18:42	LB113739
	Vanadium	5.00	+/-5.00	U	5.00	P	03/29/2021	18:42	LB113739
	Zinc	2.00	+/-2.00	U	2.00	P	03/29/2021	18:42	LB113739
CCB28	Aluminum	20.0	+/-20.0	U	20.0	P	03/29/2021	19:22	LB113739
	Antimony	2.00	+/-2.00	U	2.00	P	03/29/2021	19:22	LB113739
	Arsenic	1.00	+/-1.00	U	1.00	P	03/29/2021	19:22	LB113739
	Barium	10.0	+/-10.0	U	10.0	P	03/29/2021	19:22	LB113739
	Beryllium	1.00	+/-1.00	U	1.00	P	03/29/2021	19:22	LB113739
	Cadmium	1.00	+/-1.00	U	1.00	P	03/29/2021	19:22	LB113739
	Calcium	500	+/-500	U	500	P	03/29/2021	19:22	LB113739
	Chromium	2.00	+/-2.00	U	2.00	P	03/29/2021	19:22	LB113739
	Cobalt	1.00	+/-1.00	U	1.00	P	03/29/2021	19:22	LB113739
	Copper	2.00	+/-2.00	U	2.00	P	03/29/2021	19:22	LB113739
	Iron	50.0	+/-50.0	U	50.0	P	03/29/2021	19:22	LB113739
	Lead	0.53	+/-1.00	J	1.00	P	03/29/2021	19:22	LB113739
	Magnesium	500	+/-500	U	500	P	03/29/2021	19:22	LB113739
	Manganese	1.00	+/-1.00	U	1.00	P	03/29/2021	19:22	LB113739
	Nickel	1.00	+/-1.00	U	1.00	P	03/29/2021	19:22	LB113739
	Potassium	500	+/-500	U	500	P	03/29/2021	19:22	LB113739
	Selenium	5.00	+/-5.00	U	5.00	P	03/29/2021	19:22	LB113739
	Silver	1.00	+/-1.00	U	1.00	P	03/29/2021	19:22	LB113739
	Sodium	399	+/-500	J	500	P	03/29/2021	19:22	LB113739
	Thallium	1.00	+/-1.00	U	1.00	P	03/29/2021	19:22	LB113739
	Vanadium	5.00	+/-5.00	U	5.00	P	03/29/2021	19:22	LB113739
	Zinc	2.00	+/-2.00	U	2.00	P	03/29/2021	19:22	LB113739
CCB29	Aluminum	20.0	+/-20.0	U	20.0	P	03/29/2021	19:40	LB113739
	Antimony	2.00	+/-2.00	U	2.00	P	03/29/2021	19:40	LB113739
	Arsenic	1.00	+/-1.00	U	1.00	P	03/29/2021	19:40	LB113739
	Barium	10.0	+/-10.0	U	10.0	P	03/29/2021	19:40	LB113739
	Beryllium	1.00	+/-1.00	U	1.00	P	03/29/2021	19:40	LB113739
	Cadmium	1.00	+/-1.00	U	1.00	P	03/29/2021	19:40	LB113739

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: TRC Companies, Inc. **SDG No.:** M1770

Contract: TRCE03 **Lab Code:** CHEM **Case No.:** M1770 **SAS No.:** M1770

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB29	Calcium	500	+/-500	U	500	P	03/29/2021	19:40	LB113739
	Chromium	2.00	+/-2.00	U	2.00	P	03/29/2021	19:40	LB113739
	Cobalt	1.00	+/-1.00	U	1.00	P	03/29/2021	19:40	LB113739
	Copper	2.00	+/-2.00	U	2.00	P	03/29/2021	19:40	LB113739
	Iron	50.0	+/-50.0	U	50.0	P	03/29/2021	19:40	LB113739
	Lead	1.00	+/-1.00	U	1.00	P	03/29/2021	19:40	LB113739
	Magnesium	500	+/-500	U	500	P	03/29/2021	19:40	LB113739
	Manganese	1.00	+/-1.00	U	1.00	P	03/29/2021	19:40	LB113739
	Nickel	1.00	+/-1.00	U	1.00	P	03/29/2021	19:40	LB113739
	Potassium	26.6	+/-500	J	500	P	03/29/2021	19:40	LB113739
	Selenium	5.00	+/-5.00	U	5.00	P	03/29/2021	19:40	LB113739
	Silver	1.00	+/-1.00	U	1.00	P	03/29/2021	19:40	LB113739
	Sodium	391	+/-500	J	500	P	03/29/2021	19:40	LB113739
	Thallium	1.00	+/-1.00	U	1.00	P	03/29/2021	19:40	LB113739
	Vanadium	5.00	+/-5.00	U	5.00	P	03/29/2021	19:40	LB113739
	Zinc	2.00	+/-2.00	U	2.00	P	03/29/2021	19:40	LB113739

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: TRC Companies, Inc. **SDG No.:** M1770

Instrument: CV1

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB135337BL		**WATER**		**Batch Number:**	**PB135337**		**Prep Date:**	**03/24/2021**	
	Mercury	0.20	<0.20	U	0.20	CV	03/25/2021	11:34	LB113664

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB135365BL		**WATER**		**Batch Number:**	**PB135365**		**Prep Date:**	**03/25/2021**	
	Mercury	0.20	<0.20	U	0.20	CV	03/26/2021	12:48	LB113693

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: TRC Companies, Inc. **SDG No.:** M1770

Instrument: P8

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB135338BL		**WATER**		**Batch Number:**	**PB135338**		**Prep Date:**	**03/24/2021**	
	Aluminum	20.0	<20.0	U	20.0	P	03/29/2021	14:23	LB113739
	Antimony	2.00	<2.00	U	2.00	P	03/29/2021	14:23	LB113739
	Arsenic	1.00	<1.00	U	1.00	P	03/29/2021	14:23	LB113739
	Barium	10.0	<10.0	U	10.0	P	03/29/2021	14:23	LB113739
	Beryllium	1.00	<1.00	U	1.00	P	03/29/2021	14:23	LB113739
	Cadmium	1.00	<1.00	U	1.00	P	03/29/2021	14:23	LB113739
	Calcium	500	<500	U	500	P	03/29/2021	14:23	LB113739
	Chromium	2.00	<2.00	U	2.00	P	03/29/2021	14:23	LB113739
	Cobalt	1.00	<1.00	U	1.00	P	03/29/2021	14:23	LB113739
	Copper	2.00	<2.00	U	2.00	P	03/29/2021	14:23	LB113739
	Iron	50.0	<50.0	U	50.0	P	03/29/2021	14:23	LB113739
	Lead	1.00	<1.00	U	1.00	P	03/29/2021	14:23	LB113739
	Magnesium	500	<500	U	500	P	03/29/2021	14:23	LB113739
	Manganese	1.00	<1.00	U	1.00	P	03/29/2021	14:23	LB113739
	Nickel	1.00	<1.00	U	1.00	P	03/29/2021	14:23	LB113739
	Potassium	500	<500	U	500	P	03/29/2021	14:23	LB113739
	Selenium	5.00	<5.00	U	5.00	P	03/29/2021	14:23	LB113739
	Silver	1.00	<1.00	U	1.00	P	03/29/2021	14:23	LB113739
	Sodium	41.2	<500	J	500	P	03/29/2021	14:23	LB113739
	Thallium	1.00	<1.00	U	1.00	P	03/29/2021	14:23	LB113739
	Vanadium	5.00	<5.00	U	5.00	P	03/29/2021	14:23	LB113739
	Zinc	2.00	<2.00	U	2.00	P	03/29/2021	14:23	LB113739

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB135357BL		**WATER**		**Batch Number:**	**PB135357**		**Prep Date:**	**03/25/2021**	
	Aluminum	20.0	<20.0	U	20.0	P	03/29/2021	16:58	LB113739
	Antimony	2.00	<2.00	U	2.00	P	03/29/2021	16:58	LB113739
	Arsenic	1.00	<1.00	U	1.00	P	03/29/2021	16:58	LB113739
	Barium	10.0	<10.0	U	10.0	P	03/29/2021	16:58	LB113739
	Beryllium	1.00	<1.00	U	1.00	P	03/29/2021	16:58	LB113739
	Cadmium	1.00	<1.00	U	1.00	P	03/29/2021	16:58	LB113739
	Calcium	500	<500	U	500	P	03/29/2021	16:58	LB113739
	Chromium	2.00	<2.00	U	2.00	P	03/29/2021	16:58	LB113739
	Cobalt	1.00	<1.00	U	1.00	P	03/29/2021	16:58	LB113739
	Copper	2.00	<2.00	U	2.00	P	03/29/2021	16:58	LB113739
	Iron	50.0	<50.0	U	50.0	P	03/29/2021	16:58	LB113739
	Lead	1.00	<1.00	U	1.00	P	03/29/2021	16:58	LB113739
	Magnesium	500	<500	U	500	P	03/29/2021	16:58	LB113739
	Manganese	1.00	<1.00	U	1.00	P	03/29/2021	16:58	LB113739
	Nickel	1.00	<1.00	U	1.00	P	03/29/2021	16:58	LB113739
	Potassium	500	<500	U	500	P	03/29/2021	16:58	LB113739

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: TRC Companies, Inc. **SDG No.:** M1770

Instrument: P8

Selenium	5.00	<5.00	U	5.00	P	03/29/2021	16:58	LB113739
Silver	1.00	<1.00	U	1.00	P	03/29/2021	16:58	LB113739
Sodium	378	<500	J	500	P	03/29/2021	16:58	LB113739
Thallium	1.00	<1.00	U	1.00	P	03/29/2021	16:58	LB113739
Vanadium	5.00	<5.00	U	5.00	P	03/29/2021	16:58	LB113739
Zinc	2.00	<2.00	U	2.00	P	03/29/2021	16:58	LB113739

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: TRC Companies, Inc. **SDG No.:** M1770

Contract: TRCE03 **Lab Code:** CHEM **Case No.:** M1770 **SAS No.:** M1770

ICS Source: EPA **Instrument ID:** P8

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Aluminum	94800	100000	95	0	0	03/29/2021	14:01	LB113739
	Antimony	1.05	1.5	70	-2.5	5.5	03/29/2021	14:01	LB113739
	Arsenic	0.28	0.1	280	-1.9	2.1	03/29/2021	14:01	LB113739
	Barium	1.46	1.2	122	-18.8	21.2	03/29/2021	14:01	LB113739
	Beryllium	0.33			-2	2	03/29/2021	14:01	LB113739
	Cadmium	0.26	0.7	37	-1.3	2.7	03/29/2021	14:01	LB113739
	Calcium	95700	100000	96	0	0	03/29/2021	14:01	LB113739
	Chromium	19.7	21.0	94	16.8	25.2	03/29/2021	14:01	LB113739
	Cobalt	1.17	1.0	117	-1	3	03/29/2021	14:01	LB113739
	Copper	7.92	8.0	99	4	12	03/29/2021	14:01	LB113739
	Iron	101000	100000	101	0	0	03/29/2021	14:01	LB113739
	Lead	4.35	4.0	109	2	6	03/29/2021	14:01	LB113739
	Magnesium	97600	100000	98	0	0	03/29/2021	14:01	LB113739
	Manganese	7.81	7.0	112	5	9	03/29/2021	14:01	LB113739
	Nickel	5.78	6.0	96	4	8	03/29/2021	14:01	LB113739
	Potassium	96300	100000	96	0	0	03/29/2021	14:01	LB113739
	Selenium	0	0.3		-9.7	10.3	03/29/2021	14:01	LB113739
	Silver	0.030			-2	2	03/29/2021	14:01	LB113739
	Sodium	101000	100000	101	0	0	03/29/2021	14:01	LB113739
	Thallium	0.020			-2	2	03/29/2021	14:01	LB113739
	Vanadium	0.15	0.5	30	-9.5	10.5	03/29/2021	14:01	LB113739
	Zinc	11.0	11.0	100	7	15	03/29/2021	14:01	LB113739
ICSAB01	Aluminum	94500	100000	94	0	0	03/29/2021	14:04	LB113739
	Antimony	21.2	22.0	96	17.6	26.4	03/29/2021	14:04	LB113739
	Arsenic	20.7	19.0	109	15.2	22.8	03/29/2021	14:04	LB113739
	Barium	22.5	22.0	102	2	42	03/29/2021	14:04	LB113739
	Beryllium	20.0	20.0	100	15.2	22.8	03/29/2021	14:04	LB113739
	Cadmium	20.5	20.0	102	16	24	03/29/2021	14:04	LB113739
	Calcium	94900	100000	95	0	0	03/29/2021	14:04	LB113739
	Chromium	39.4	40.0	98	32	48	03/29/2021	14:04	LB113739
	Cobalt	21.3	20.0	106	16	24	03/29/2021	14:04	LB113739
	Copper	27.3	25.0	109	20	30	03/29/2021	14:04	LB113739
	Iron	101000	100000	101	0	0	03/29/2021	14:04	LB113739
	Lead	24.1	25.0	96	20	30	03/29/2021	14:04	LB113739
	Magnesium	96400	100000	96	0	0	03/29/2021	14:04	LB113739
	Manganese	26.9	27.0	100	21.6	32.4	03/29/2021	14:04	LB113739
	Nickel	25.4	24.0	106	19.2	28.8	03/29/2021	14:04	LB113739
	Potassium	97900	100000	98	0	0	03/29/2021	14:04	LB113739
	Selenium	18.4	19.0	97	9	29	03/29/2021	14:04	LB113739
	Silver	19.9	18.0	111	14.4	21.6	03/29/2021	14:04	LB113739
	Sodium	101000	100000	101	0	0	03/29/2021	14:04	LB113739
	Thallium	20.9	21.0	100	16.8	25.2	03/29/2021	14:04	LB113739
	Vanadium	20.0	19.0	105	9	29	03/29/2021	14:04	LB113739
	Zinc	28.2	29.0	97	23.2	34.8	03/29/2021	14:04	LB113739

METAL QC DATA

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

metals
- 5a -
MATRIX SPIKE SUMMARY

client: TRC Companies, Inc. **level:** low **sdg no.:** M1770

contract: TRCE03 **lab code:** CHEM **case no.:** M1770 **sas no.:** M1770

matrix: Water **sample id:** M1770-03 **client id:** MW-106SMS

Percent Solids for Sample: NA **Spiked ID:** M1770-04 **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75 - 125	10200		7.24	J	10000	102		P
Antimony	ug/L	75 - 125	499		2.00	U	500	100		P
Arsenic	ug/L	75 - 125	512		0.20	J	500	102		P
Barium	ug/L	75 - 125	2730		130		2500	104		P
Beryllium	ug/L	75 - 125	470		1.00	U	500	94		P
Cadmium	ug/L	75 - 125	487		1.00	U	500	97		P
Calcium	ug/L	75 - 125	219000		171000		50000	96		P
Chromium	ug/L	75 - 125	491		2.00	U	500	98		P
Cobalt	ug/L	75 - 125	496		0.090	J	500	99		P
Copper	ug/L	75 - 125	5600		2.00	U	5000	112		P
Iron	ug/L	75 - 125	26100		145		25000	104		P
Lead	ug/L	75 - 125	2630		1.00	U	2500	105		P
Magnesium	ug/L	75 - 125	96300		45100		50000	102		P
Manganese	ug/L	75 - 125	5770		229		5000	111		P
Nickel	ug/L	75 - 125	485		0.54	J	500	97		P
Mercury	ug/L	75 - 125	3.39		0.20	U	4.0	85		CV
Potassium	ug/L	75 - 125	53300		27700		25000	103		P
Selenium	ug/L	75 - 125	464		5.00	U	500	93		P
Silver	ug/L	75 - 125	79.1		1.00	U	500	16	N	P
Sodium	ug/L	75 - 125	401000		352000		50000	97		P
Thallium	ug/L	75 - 125	506		1.00	U	500	101		P
Vanadium	ug/L	75 - 125	503		1.48	J	500	100		P
Zinc	ug/L	75 - 125	5350		2.97		5000	107		P

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: TRC Companies, Inc. **level:** low **sdg no.:** M1770

contract: TRCE03 **lab code:** CHEM **case no.:** M1770 **sas no.:** M1770

matrix: Water **sample id:** M1770-03 **client id:** MW-106SMSD

Percent Solids for Sample: NA **Spiked ID:** M1770-05 **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75 - 125	10100		7.24	J	10000	101		P
Antimony	ug/L	75 - 125	498		2.00	U	500	100		P
Arsenic	ug/L	75 - 125	521		0.20	J	500	104		P
Barium	ug/L	75 - 125	2840		130		2500	108		P
Beryllium	ug/L	75 - 125	468		1.00	U	500	94		P
Cadmium	ug/L	75 - 125	495		1.00	U	500	99		P
Calcium	ug/L	75 - 125	216000		171000		50000	90		P
Chromium	ug/L	75 - 125	493		2.00	U	500	99		P
Cobalt	ug/L	75 - 125	495		0.090	J	500	99		P
Copper	ug/L	75 - 125	5540		2.00	U	5000	111		P
Iron	ug/L	75 - 125	25900		145		25000	103		P
Lead	ug/L	75 - 125	2600		1.00	U	2500	104		P
Magnesium	ug/L	75 - 125	95100		45100		50000	100		P
Manganese	ug/L	75 - 125	5690		229		5000	109		P
Nickel	ug/L	75 - 125	488		0.54	J	500	97		P
Mercury	ug/L	75 - 125	3.77		0.20	U	4.0	94		CV
Potassium	ug/L	75 - 125	51900		27700		25000	97		P
Selenium	ug/L	75 - 125	388		5.00	U	500	78		P
Silver	ug/L	75 - 125	54.8		1.00	U	500	11	N	P
Sodium	ug/L	75 - 125	395000		352000		50000	86		P
Thallium	ug/L	75 - 125	505		1.00	U	500	101		P
Vanadium	ug/L	75 - 125	502		1.48	J	500	100		P
Zinc	ug/L	75 - 125	5340		2.97		5000	107		P

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

metals
- 5a -
MATRIX SPIKE SUMMARY

client: TRC Companies, Inc. **level:** low **sdg no.:** M1770

contract: TRCE03 **lab code:** CHEM **case no.:** M1770 **sas no.:** M1770

matrix: Water **sample id:** M1770-20 **client id:** MW-103SMS

Percent Solids for Sample: NA **Spiked ID:** M1770-20MS **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75 - 125	10600		114		10000	105		P
Antimony	ug/L	75 - 125	485		0.22	J	500	97		P
Arsenic	ug/L	75 - 125	495		0.97	J	500	99		P
Barium	ug/L	75 - 125	3170		485		2500	107		P
Beryllium	ug/L	75 - 125	480		1.00	U	500	96		P
Cadmium	ug/L	75 - 125	471		1.00	U	500	94		P
Calcium	ug/L	75 - 125	221000		170000		50000	101		P
Chromium	ug/L	75 - 125	505		0.97	J	500	101		P
Cobalt	ug/L	75 - 125	498		0.34	J	500	99		P
Copper	ug/L	75 - 125	5400		3.69		5000	108		P
Iron	ug/L	75 - 125	32800		6650		25000	105		P
Lead	ug/L	75 - 125	2550		3.30		2500	102		P
Magnesium	ug/L	75 - 125	228000		175000		50000	106		P
Manganese	ug/L	75 - 125	6040		679		5000	107		P
Nickel	ug/L	75 - 125	489		1.18		500	98		P
Mercury	ug/L	75 - 125	4.08		0.20	U	4.0	102		CV
Potassium	ug/L	75 - 125	115000		89700		25000	100		P
Selenium	ug/L	75 - 125	494		6.72		500	98		P
Silver	ug/L	75 - 125	468		1.00	U	500	94		P
Sodium	ug/L	75 - 125	1780000	D	1840000	D	50000	-109		P
Thallium	ug/L	75 - 125	517		1.00	U	500	103		P
Vanadium	ug/L	75 - 125	518		5.05		500	103		P
Zinc	ug/L	75 - 125	5010		6.53		5000	100		P

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: TRC Companies, Inc. **level:** low **sdg no.:** M1770

contract: TRCE03 **lab code:** CHEM **case no.:** M1770 **sas no.:** M1770

matrix: Water **sample id:** M1770-20 **client id:** MW-103SMSD

Percent Solids for Sample: NA **Spiked ID:** M1770-20MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75 - 125	10400		114		10000	103		P
Antimony	ug/L	75 - 125	484		0.22	J	500	97		P
Arsenic	ug/L	75 - 125	480		0.97	J	500	96		P
Barium	ug/L	75 - 125	3200		485		2500	109		P
Beryllium	ug/L	75 - 125	462		1.00	U	500	92		P
Cadmium	ug/L	75 - 125	469		1.00	U	500	94		P
Calcium	ug/L	75 - 125	220000		170000		50000	99		P
Chromium	ug/L	75 - 125	490		0.97	J	500	98		P
Cobalt	ug/L	75 - 125	487		0.34	J	500	97		P
Copper	ug/L	75 - 125	5300		3.69		5000	106		P
Iron	ug/L	75 - 125	31900		6650		25000	101		P
Lead	ug/L	75 - 125	2670		3.30		2500	107		P
Magnesium	ug/L	75 - 125	223000		175000		50000	95		P
Manganese	ug/L	75 - 125	5930		679		5000	105		P
Nickel	ug/L	75 - 125	479		1.18		500	96		P
Mercury	ug/L	75 - 125	4.09		0.20	U	4.0	102		CV
Potassium	ug/L	75 - 125	113000		89700		25000	93		P
Selenium	ug/L	75 - 125	493		6.72		500	97		P
Silver	ug/L	75 - 125	464		1.00	U	500	93		P
Sodium	ug/L	75 - 125	1790000	D	1840000	D	50000	-86		P
Thallium	ug/L	75 - 125	523		1.00	U	500	105		P
Vanadium	ug/L	75 - 125	508		5.05		500	100		P
Zinc	ug/L	75 - 125	4890		6.53		5000	98		P

CHEMTECH

Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client: TRC Companies, Inc. **SDG No.:** M1770

Contract: TRCE03 **Lab Code:** CHEM **Case No.:** M1770 **SAS No.:** M1770

Matrix: Water **Level:** LOW **Client ID:** MW-106SA

Sample ID: M1770-03 **Spiked ID:** M1770-03A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Silver	ug/L	75 - 125	64.0		1.00	U	500	13		P

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: TRC Companies, Inc. **Level:** LOW **SDG No.:** M1770

Contract: TRCE03 **Lab Code:** CHEM **Case No.:** M1770 **SAS No.:** M1770

Matrix: Water **Sample ID:** M1770-03 **Client ID:** MW-106SDUP

Percent Solids for Sample: NA **Duplicate ID** M1770-03DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	7.24	J	7.01	J	3		P
Antimony	ug/L	20	2.00	U	0.12	J	200.0		P
Arsenic	ug/L	20	0.20	J	0.23	J	14		P
Barium	ug/L	20	130		134		3		P
Beryllium	ug/L	20	1.00	U	1.00	U			P
Cadmium	ug/L	20	1.00	U	1.00	U			P
Calcium	ug/L	20	171000		176000		3		P
Chromium	ug/L	20	2.00	U	2.00	U			P
Cobalt	ug/L	20	0.090	J	0.070	J	25		P
Copper	ug/L	20	2.00	U	2.00	U			P
Iron	ug/L	20	145		137		6		P
Lead	ug/L	20	1.00	U	1.00	U			P
Magnesium	ug/L	20	45100		47200		5		P
Manganese	ug/L	20	229		238		4		P
Nickel	ug/L	20	0.54	J	0.47	J	14		P
Mercury	ug/L	20	0.20	U	0.20	U			CV
Potassium	ug/L	20	27700		28600		3		P
Selenium	ug/L	20	5.00	U	2.55	J	200.0		P
Silver	ug/L	20	1.00	U	1.00	U			P
Sodium	ug/L	20	352000		370000		5		P
Thallium	ug/L	20	1.00	U	1.00	U			P
Vanadium	ug/L	20	1.48	J	1.57	J	6		P
Zinc	ug/L	20	2.97		1.82	J	48		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: TRC Companies, Inc. **Level:** LOW **SDG No.:** M1770

Contract: TRCE03 **Lab Code:** CHEM **Case No.:** M1770 **SAS No.:** M1770

Matrix: Water **Sample ID:** M1770-04 **Client ID:** MW-106SMSD

Percent Solids for Sample: NA **Duplicate ID** M1770-05 **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	10200		10100		1		P
Antimony	ug/L	20	499		498		0		P
Arsenic	ug/L	20	512		521		2		P
Barium	ug/L	20	2730		2840		4		P
Beryllium	ug/L	20	470		468		0		P
Cadmium	ug/L	20	487		495		2		P
Calcium	ug/L	20	219000		216000		1		P
Chromium	ug/L	20	491		493		0		P
Cobalt	ug/L	20	496		495		0		P
Copper	ug/L	20	5600		5540		1		P
Iron	ug/L	20	26100		25900		1		P
Lead	ug/L	20	2630		2600		1		P
Magnesium	ug/L	20	96300		95100		1		P
Manganese	ug/L	20	5770		5690		1		P
Nickel	ug/L	20	485		488		1		P
Mercury	ug/L	20	3.39		3.77		11		CV
Potassium	ug/L	20	53300		51900		3		P
Selenium	ug/L	20	464		388		18		P
Silver	ug/L	20	79.1		54.8		36	*	P
Sodium	ug/L	20	401000		395000		2		P
Thallium	ug/L	20	506		505		0		P
Vanadium	ug/L	20	503		502		0		P
Zinc	ug/L	20	5350		5340		0		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: TRC Companies, Inc. **Level:** LOW **SDG No.:** M1770

Contract: TRCE03 **Lab Code:** CHEM **Case No.:** M1770 **SAS No.:** M1770

Matrix: Water **Sample ID:** M1770-20 **Client ID:** MW-103SDUP

Percent Solids for Sample: NA **Duplicate ID** M1770-20DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	114		123		8		P
Antimony	ug/L	20	0.22	J	0.30	J	31		P
Arsenic	ug/L	20	0.97	J	1.06		9		P
Barium	ug/L	20	485		516		6		P
Beryllium	ug/L	20	1.00	U	1.00	U			P
Cadmium	ug/L	20	1.00	U	1.00	U			P
Calcium	ug/L	20	170000		173000		2		P
Chromium	ug/L	20	0.97	J	0.96	J	1		P
Cobalt	ug/L	20	0.34	J	0.43	J	23		P
Copper	ug/L	20	3.69		2.87		25		P
Iron	ug/L	20	6650		7080		6		P
Lead	ug/L	20	3.30		3.51		6		P
Magnesium	ug/L	20	175000		187000		7		P
Manganese	ug/L	20	679		718		6		P
Nickel	ug/L	20	1.18		1.14		3		P
Mercury	ug/L	20	0.20	U	0.082	J	200.0		CV
Potassium	ug/L	20	89700		94800		6		P
Selenium	ug/L	20	6.72		7.27		8		P
Silver	ug/L	20	1.00	U	1.00	U			P
Sodium	ug/L	20	1840000	D	1860000	D	1		P
Thallium	ug/L	20	1.00	U	1.00	U			P
Vanadium	ug/L	20	5.05		5.42		7		P
Zinc	ug/L	20	6.53		5.47		18		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: TRC Companies, Inc. **Level:** LOW **SDG No.:** M1770

Contract: TRCE03 **Lab Code:** CHEM **Case No.:** M1770 **SAS No.:** M1770

Matrix: Water **Sample ID:** M1770-20MS **Client ID:** MW-103SMSD

Percent Solids for Sample: NA **Duplicate ID** M1770-20MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	10600		10400		2		P
Antimony	ug/L	20	485		484		0		P
Arsenic	ug/L	20	495		480		3		P
Barium	ug/L	20	3170		3200		1		P
Beryllium	ug/L	20	480		462		4		P
Cadmium	ug/L	20	471		469		0		P
Calcium	ug/L	20	221000		220000		0		P
Chromium	ug/L	20	505		490		3		P
Cobalt	ug/L	20	498		487		2		P
Copper	ug/L	20	5400		5300		2		P
Iron	ug/L	20	32800		31900		3		P
Lead	ug/L	20	2550		2670		5		P
Magnesium	ug/L	20	228000		223000		2		P
Manganese	ug/L	20	6040		5930		2		P
Nickel	ug/L	20	489		479		2		P
Mercury	ug/L	20	4.08		4.09		0		CV
Potassium	ug/L	20	115000		113000		2		P
Selenium	ug/L	20	494		493		0		P
Silver	ug/L	20	468		464		1		P
Sodium	ug/L	20	1780000	D	1790000	D	1		P
Thallium	ug/L	20	517		523		1		P
Vanadium	ug/L	20	518		508		2		P
Zinc	ug/L	20	5010		4890		2		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Metals

LABORATORY CONTROL SAMPLE SUMMARY

Client: TRC Companies, Inc. **SDG No.:** M1770

Contract: TRCE03 **Lab Code:** CHEM **Case No.:** M1770 **SAS No.:** M1770

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB135337BS							
Mercury	ug/L	4.0	3.69		92	80 - 120	CV

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Metals

LABORATORY CONTROL SAMPLE SUMMARY

Client: TRC Companies, Inc. **SDG No.:** M1770

Contract: TRCE03 **Lab Code:** CHEM **Case No.:** M1770 **SAS No.:** M1770

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB135338BS							
Aluminum	ug/L	10000	10300		103	80 - 120	P
Antimony	ug/L	500	533		107	80 - 120	P
Arsenic	ug/L	500	537		107	80 - 120	P
Barium	ug/L	2500	2740		110	80 - 120	P
Beryllium	ug/L	500	507		101	80 - 120	P
Cadmium	ug/L	500	545		109	80 - 120	P
Calcium	ug/L	50000	51000		102	80 - 120	P
Chromium	ug/L	500	529		106	80 - 120	P
Cobalt	ug/L	500	532		106	80 - 120	P
Copper	ug/L	5000	5370		107	80 - 120	P
Iron	ug/L	25000	26900		108	80 - 120	P
Lead	ug/L	2500	2620		105	80 - 120	P
Magnesium	ug/L	50000	54000		108	80 - 120	P
Manganese	ug/L	5000	5320		106	80 - 120	P
Nickel	ug/L	500	524		105	80 - 120	P
Potassium	ug/L	25000	27500		110	80 - 120	P
Selenium	ug/L	500	535		107	80 - 120	P
Silver	ug/L	500	558		112	80 - 120	P
Sodium	ug/L	50000	53300		107	80 - 120	P
Thallium	ug/L	500	517		103	80 - 120	P
Vanadium	ug/L	500	528		106	80 - 120	P
Zinc	ug/L	5000	5290		106	80 - 120	P

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Metals

LABORATORY CONTROL SAMPLE SUMMARY

Client: TRC Companies, Inc. **SDG No.:** M1770

Contract: TRCE03 **Lab Code:** CHEM **Case No.:** M1770 **SAS No.:** M1770

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB135357BS							
Aluminum	ug/L	10000	10600		106	80 - 120	P
Antimony	ug/L	500	523		105	80 - 120	P
Arsenic	ug/L	500	509		102	80 - 120	P
Barium	ug/L	2500	2700		108	80 - 120	P
Beryllium	ug/L	500	519		104	80 - 120	P
Cadmium	ug/L	500	524		105	80 - 120	P
Calcium	ug/L	50000	52400		105	80 - 120	P
Chromium	ug/L	500	538		108	80 - 120	P
Cobalt	ug/L	500	544		109	80 - 120	P
Copper	ug/L	5000	5560		111	80 - 120	P
Iron	ug/L	25000	27300		109	80 - 120	P
Lead	ug/L	2500	2660		106	80 - 120	P
Magnesium	ug/L	50000	55700		111	80 - 120	P
Manganese	ug/L	5000	5480		110	80 - 120	P
Nickel	ug/L	500	543		109	80 - 120	P
Potassium	ug/L	25000	27000		108	80 - 120	P
Selenium	ug/L	500	526		105	80 - 120	P
Silver	ug/L	500	537		107	80 - 120	P
Sodium	ug/L	50000	55000		110	80 - 120	P
Thallium	ug/L	500	532		106	80 - 120	P
Vanadium	ug/L	500	538		108	80 - 120	P
Zinc	ug/L	5000	5410		108	80 - 120	P

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Metals

LABORATORY CONTROL SAMPLE SUMMARY

Client: TRC Companies, Inc. **SDG No.:** M1770

Contract: TRCE03 **Lab Code:** CHEM **Case No.:** M1770 **SAS No.:** M1770

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB135365BS							
Mercury	ug/L	4.0	3.33		83	80 - 120	CV

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: TRC Companies, Inc. Contract: TRCE03

Lab Code: CHEM Case no.: M1770 Sas No.: M1770 SDG No.: M1770

Instrument ID: P8 Start Date : 03/29/2021

Run Number: LB113739 End Date : 03/29/2021

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Non-Collision Cell									
			Element 6Li	Q	Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q
S0	S0	1228	100		100		100		100		100	
S2	S2	1235	100		101		100		98		101	
S3	S3	1238	101		101		101		99		103	
S4	S4	1241	101		104		104		102		105	
S5	S5	1244	105		109		109		105		110	
S6	S6	1247	103		105		104		100		109	
S7	S7	1250	103		105		106		102		109	
S8	S8	1253	103		106		104		99		107	
ICV01	ICV01	1327	100		105		104		102		106	
LLICV01	LLICV01	1354	102		103		103		102		103	
ICB01	ICB01	1358	100		101		101		100		103	
ICSA01	ICSA01	1401	101		105		103		99		107	
ICSAB01	ICSAB01	1404	108		106		103		99		104	
CCV22	CCV22	1407	112		103		105		98		103	
CCB22	CCB22	1417	107		102		105		102		101	
CRI	CRI	1420	107		102		103		101		102	
PB135338BL	PB135338BL	1423	106		102		104		101		101	
PB135338BS	PB135338BS	1426	106		104		105		101		103	
M1770-02	MW-106I	1433	104		103		105		97		103	
M1770-03	MW-106S	1436	112		105		108		101		106	
M1770-03DUP	MW-106SDUP	1438	112		108		107		101		107	
M1770-03L	MW-106SL	1441	112		103		103		101		103	
M1770-04	MW-106SMS	1444	109		106		104		97		108	
M1770-05	MW-106SMSD	1447	109		105		103		98		106	
M1770-03A	MW-106SA	1450	112		108		108		101		110	
CCV23	CCV23	1510	106		106		104		98		110	
CCB23	CCB23	1520	103		103		100		99		104	
M1770-06	MW-105D	1523	107		105		105		95		105	
M1770-07	MW-105I	1525	118		109		109		104		110	
M1770-08	MW-105S	1528	113		108		105		102		109	
M1770-10	MW-106D	1531	115		107		106		103		108	
M1770-11	MW-104D	1534	108		100		95		87		98	
M1770-12	MW-104I	1537	136	*	114		111		109		111	
M1770-13	MW-103D	1539	124		106		105		103		108	
M1770-14	MW-103I	1542	122		112		110		109		114	
M1770-15	MW-101S	1545	119		113		111		108		115	
M1770-16	MW-101I	1548	118		116		113		108		117	

Internal Standard %RI Limit: 70 - 130

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: TRC Companies, Inc. Contract: TRCE03

Lab Code: CHEM Case no.: M1770 Sas No.: M1770 SDG No.: M1770

Instrument ID: P8 Start Date : 03/29/2021

Run Number: LB113739 End Date : 03/29/2021

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Non-Collision Cell									
			Element 6Li	Q	Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q
CCV24	CCV24	1554	111		111		108		102		114	
CCB24	CCB24	1604	108		110		107		106		112	
M1770-17	MW-101D	1607	108		110		109		104		112	
M1770-18	FB-03232021	1610	112		113		111		109		115	
M1770-02	MW-106I	1613	109		112		109		106		113	
M1770-06	MW-105D	1616	107		110		106		102		113	
M1770-11	MW-104D	1619	108		110		106		104		112	
M1770-12	MW-104I	1621	107		109		107		105		113	
M1770-21	MW-102D	1624	105		108		104		101		110	
M1770-20	MW-103S	1627	108		113		109		101		115	
M1770-20DUP	MW-103SDUP	1630	116		116		111		103		116	
M1770-20L	MW-103SL	1633	122		118		113		109		121	
CCV25	CCV25	1639	112		116		112		107		121	
CCB25	CCB25	1652	106		108		108		105		113	
M1770-18	FB-03232021	1655	120		126		123		122		128	
PB135357BL	PB135357BL	1658	104		105		105		104		110	
PB135357BS	PB135357BS	1701	105		111		107		104		113	
M1770-22	MW-102S	1703	107		114		111		108		117	
M1770-23	MW-102I	1706	107		114		111		108		117	
M1770-24	MW-107I	1709	110		114		112		109		121	
M1770-20MS	MW-103SMS	1727	116		117		115		105		120	
M1770-20MSD	MW-103SMSD	1730	119		117		113		104		118	
M1770-20A	MW-103SA	1733	114		109		104		96		109	
M1770-20	MW-103S	1735	117		110		105		103		110	
CCV26	CCV26	1748	103		107		101		97		108	
CCB26	CCB26	1817	99		106		104		104		107	
M1770-20DUP	MW-103SDUP	1820	101		107		104		100		107	
M1770-20L	MW-103SL	1823	99		105		101		101		107	
M1770-20MS	MW-103SMS	1826	101		107		103		101		108	
M1770-20MSD	MW-103SMSD	1829	100		105		102		100		107	
M1770-20A	MW-103SA	1832	102		107		104		101		109	
CCV27	CCV27	1835	101		108		103		98		110	
CCB27	CCB27	1842	101		106		104		102		109	

Internal Standard %RI Limit: 70 - 130

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: TRC Companies, Inc. Contract: TRCE03

Lab Code: CHEM Case no.: M1770 Sas No.: M1770 SDG No.: M1770

Instrument ID: P8 Start Date : 03/29/2021

Run Number: LB113739 End Date : 03/29/2021

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q	Element 165Ho	Q
S0	S0	1228	100		100		100		100		100	
S2	S2	1235	99		100		99		101		101	
S3	S3	1238	101		102		101		102		103	
S4	S4	1241	101		102		102		102		102	
S5	S5	1244	103		104		104		104		104	
S6	S6	1247	96		97		97		98		99	
S7	S7	1250	102		104		102		106		108	
S8	S8	1253	100		103		98		105		107	
ICV01	ICV01	1327	100		102		102		101		103	
LLICV01	LLICV01	1354	102		101		102		102		104	
ICB01	ICB01	1358	101		102		103		103		103	
ICSA01	ICSA01	1401	98		101		100		105		105	
ICSAB01	ICSAB01	1404	102		103		101		104		104	
CCV22	CCV22	1407	103		103		101		102		105	
CCB22	CCB22	1417	105		106		105		104		104	
CRI	CRI	1420	105		105		104		102		104	
PB135338BL	PB135338BL	1423	103		104		102		101		101	
PB135338BS	PB135338BS	1426	105		105		103		104		105	
M1770-02	MW-106I	1433	99		100		96		99		101	
M1770-03	MW-106S	1436	105		106		101		104		105	
M1770-03DUP	MW-106SDUP	1438	105		107		102		106		107	
M1770-03L	MW-106SL	1441	102		103		102		103		104	
M1770-04	MW-106SMS	1444	102		104		100		104		106	
M1770-05	MW-106SMSD	1447	104		104		101		108		108	
M1770-03A	MW-106SA	1450	102		104		101		107		109	
CCV23	CCV23	1510	100		104		100		107		109	
CCB23	CCB23	1520	99		103		102		104		104	
M1770-06	MW-105D	1523	100		101		95		105		104	
M1770-07	MW-105I	1525	104		108		105		110		113	
M1770-08	MW-105S	1528	102		105		102		106		108	
M1770-10	MW-106D	1531	103		106		107		109		109	
M1770-11	MW-104D	1534	98		98		91		100		99	
M1770-12	MW-104I	1537	107		111		111		111		113	
M1770-13	MW-103D	1539	106		108		109		113		114	
M1770-14	MW-103I	1542	105		108		109		112		113	
M1770-15	MW-101S	1545	107		111		109		116		117	
M1770-16	MW-101I	1548	103		109		106		112		114	

Internal Standard %RI Limit: 70 - 130

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: TRC Companies, Inc. Contract: TRCE03

Lab Code: CHEM Case no.: M1770 Sas No.: M1770 SDG No.: M1770

Instrument ID: P8 Start Date : 03/29/2021

Run Number: LB113739 End Date : 03/29/2021

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q	Element 165Ho	Q
CCV24	CCV24	1554	103		107		104		113		116	
CCB24	CCB24	1604	100		106		106		109		111	
M1770-17	MW-101D	1607	103		108		107		113		115	
M1770-18	FB-03232021	1610	102		107		108		111		113	
M1770-02	MW-106I	1613	100		104		104		110		111	
M1770-06	MW-105D	1616	99		104		104		110		112	
M1770-11	MW-104D	1619	97		102		101		106		110	
M1770-12	MW-104I	1621	98		102		103		107		110	
M1770-21	MW-102D	1624	104		111		108		115		118	
M1770-20	MW-103S	1627	103		108		104		114		115	
M1770-20DUP	MW-103SDUP	1630	109		115		109		120		123	
M1770-20L	MW-103SL	1633	108		116		114		120		123	
CCV25	CCV25	1639	105		112		108		119		120	
CCB25	CCB25	1652	99		105		108		111		111	
M1770-18	FB-03232021	1655	111		120		121		123		124	
PB135357BL	PB135357BL	1658	98		106		107		109		111	
PB135357BS	PB135357BS	1701	99		105		105		111		114	
M1770-22	MW-102S	1703	105		111		112		116		116	
M1770-23	MW-102I	1706	104		111		111		117		117	
M1770-24	MW-107I	1709	104		109		107		116		117	
M1770-20MS	MW-103SMS	1727	108		114		109		119		123	
M1770-20MSD	MW-103SMSD	1730	105		111		104		116		119	
M1770-20A	MW-103SA	1733	99		104		98		110		112	
M1770-20	MW-103S	1735	98		103		104		108		110	
CCV26	CCV26	1748	95		100		99		106		108	
CCB26	CCB26	1817	98		102		103		106		108	
M1770-20DUP	MW-103SDUP	1820	99		105		104		109		111	
M1770-20L	MW-103SL	1823	99		104		104		107		110	
M1770-20MS	MW-103SMS	1826	98		101		102		106		109	
M1770-20MSD	MW-103SMSD	1829	97		102		101		108		109	
M1770-20A	MW-103SA	1832	98		104		104		109		109	
CCV27	CCV27	1835	99		103		102		111		113	
CCB27	CCB27	1842	95		100		103		105		106	

Internal Standard %RI Limit: 70 - 130

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Lab Name: TRC Companies, Inc. Contract: TRCE03

Lab Code: CHEM Case no.: M1770 Sas No.: M1770 SDG No.: M1770

Instrument ID: P8 Start Date : 03/29/2021

Run Number: LB113739 End Date : 03/29/2021

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Non-Collision Cell									
			Element 165Ho	Q	Element 209Bi	Q	Element	Q	Element	Q	Element	Q
S0	S0	1228	100		100							
S2	S2	1235	99		99							
S3	S3	1238	100		101							
S4	S4	1241	103		102							
S5	S5	1244	108		107							
S6	S6	1247	105		105							
S7	S7	1250	106		104							
S8	S8	1253	105		101							
ICV01	ICV01	1327	104		102							
LLICV01	LLICV01	1354	103		102							
ICB01	ICB01	1358	101		100							
ICSA01	ICSA01	1401	106		102							
ICSAB01	ICSAB01	1404	102		98							
CCV22	CCV22	1407	104		98							
CCB22	CCB22	1417	100		99							
CRI	CRI	1420	99		98							
PB135338BL	PB135338BL	1423	99		97							
PB135338BS	PB135338BS	1426	101		100							
M1770-02	MW-106I	1433	99		95							
M1770-03	MW-106S	1436	103		102							
M1770-03DUP	MW-106SDUP	1438	105		101							
M1770-03L	MW-106SL	1441	101		98							
M1770-04	MW-106SMS	1444	103		99							
M1770-05	MW-106SMSD	1447	103		100							
M1770-03A	MW-106SA	1450	107		102							
CCV23	CCV23	1510	108		103							
CCB23	CCB23	1520	101		102							
M1770-06	MW-105D	1523	104		98							
M1770-07	MW-105I	1525	109		106							
M1770-08	MW-105S	1528	107		104							
M1770-10	MW-106D	1531	105		104							
M1770-11	MW-104D	1534	96		89							
M1770-12	MW-104I	1537	111		111							
M1770-13	MW-103D	1539	106		106							
M1770-14	MW-103I	1542	111		111							

Internal Standard %RI Limit: 70 -130

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Lab Name: TRC Companies, Inc. Contract: TRCE03

Lab Code: CHEM Case no.: M1770 Sas No.: M1770 SDG No.: M1770

Instrument ID: P8 Start Date : 03/29/2021

Run Number: LB113739 End Date : 03/29/2021

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Non-Collision Cell									
			Element 165Ho	Q	Element 209Bi	Q	Element	Q	Element	Q	Element	Q
M1770-15	MW-101S	1545	113		113							
M1770-16	MW-101I	1548	117		114							
CCV24	CCV24	1554	113		111							
CCB24	CCB24	1604	109		110							
M1770-17	MW-101D	1607	113		111							
M1770-18	FB-03232021	1610	115		117							
M1770-02	MW-106I	1613	113		111							
M1770-06	MW-105D	1616	112		110							
M1770-11	MW-104D	1619	112		108							
M1770-12	MW-104I	1621	109		111							
M1770-21	MW-102D	1624	109		106							
M1770-20	MW-103S	1627	112		107							
M1770-20DUP	MW-103SDUP	1630	115		109							
M1770-20L	MW-103SL	1633	117		116							
CCV25	CCV25	1639	119		117							
CCB25	CCB25	1652	112		114							
M1770-18	FB-03232021	1655	126		129							
PB135357BL	PB135357BL	1658	109		110							
PB135357BS	PB135357BS	1701	111		111							
M1770-22	MW-102S	1703	115		114							
M1770-23	MW-102I	1706	116		115							
M1770-24	MW-107I	1709	118		116							
M1770-20MS	MW-103SMS	1727	121		113							
M1770-20MSD	MW-103SMSD	1730	117		109							
M1770-20A	MW-103SA	1733	108		104							
M1770-20	MW-103S	1735	109		108							
CCV26	CCV26	1748	106		104							
CCB26	CCB26	1817	105		106							
M1770-20DUP	MW-103SDUP	1820	107		104							
M1770-20L	MW-103SL	1823	105		106							
M1770-20MS	MW-103SMS	1826	106		103							
M1770-20MSD	MW-103SMSD	1829	104		104							
M1770-20A	MW-103SA	1832	107		106							
CCV27	CCV27	1835	107		104							
CCB27	CCB27	1842	107		109							

Internal Standard %RI Limit: 70 -130

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Lab Name: TRC Companies, Inc. Contract: TRCE03

Lab Code: CHEM Case no.: M1770 Sas No.: M1770 SDG No.: M1770

Instrument ID: P8 Start Date : 03/29/2021

Run Number: LB113739 End Date : 03/29/2021

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 209Bi	Q	Element	Q	Element	Q	Element	Q	Element	Q
S0	S0	1228	100									
S2	S2	1235	100									
S3	S3	1238	101									
S4	S4	1241	101									
S5	S5	1244	102									
S6	S6	1247	97									
S7	S7	1250	104									
S8	S8	1253	100									
ICV01	ICV01	1327	103									
LLICV01	LLICV01	1354	103									
ICB01	ICB01	1358	103									
ICSA01	ICSA01	1401	101									
ICSAB01	ICSAB01	1404	100									
CCV22	CCV22	1407	98									
CCB22	CCB22	1417	102									
CRI	CRI	1420	103									
PB135338BL	PB135338BL	1423	97									
PB135338BS	PB135338BS	1426	101									
M1770-02	MW-106I	1433	94									
M1770-03	MW-106S	1436	100									
M1770-03DUP	MW-106SDUP	1438	100									
M1770-03L	MW-106SL	1441	100									
M1770-04	MW-106SMS	1444	100									
M1770-05	MW-106SMSD	1447	102									
M1770-03A	MW-106SA	1450	104									
CCV23	CCV23	1510	104									
CCB23	CCB23	1520	103									
M1770-06	MW-105D	1523	98									
M1770-07	MW-105I	1525	109									
M1770-08	MW-105S	1528	103									
M1770-10	MW-106D	1531	109									
M1770-11	MW-104D	1534	89									
M1770-12	MW-104I	1537	112									
M1770-13	MW-103D	1539	113									
M1770-14	MW-103I	1542	112									

Internal Standard %RI Limit: 70 -130

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Lab Name: TRC Companies, Inc. Contract: TRCE03

Lab Code: CHEM Case no.: M1770 Sas No.: M1770 SDG No.: M1770

Instrument ID: P8 Start Date : 03/29/2021

Run Number: LB113739 End Date : 03/29/2021

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 209Bi	Q	Element	Q	Element	Q	Element	Q	Element	Q
M1770-15	MW-101S	1545	114									
M1770-16	MW-101I	1548	110									
CCV24	CCV24	1554	110									
CCB24	CCB24	1604	113									
M1770-17	MW-101D	1607	112									
M1770-18	FB-03232021	1610	113									
M1770-02	MW-106I	1613	110									
M1770-06	MW-105D	1616	107									
M1770-11	MW-104D	1619	106									
M1770-12	MW-104I	1621	110									
M1770-21	MW-102D	1624	114									
M1770-20	MW-103S	1627	108									
M1770-20DUP	MW-103SDUP	1630	115									
M1770-20L	MW-103SL	1633	118									
CCV25	CCV25	1639	116									
CCB25	CCB25	1652	112									
M1770-18	FB-03232021	1655	128									
PB135357BL	PB135357BL	1658	111									
PB135357BS	PB135357BS	1701	112									
M1770-22	MW-102S	1703	116									
M1770-23	MW-102I	1706	116									
M1770-24	MW-107I	1709	113									
M1770-20MS	MW-103SMS	1727	113									
M1770-20MSD	MW-103SMSD	1730	109									
M1770-20A	MW-103SA	1733	104									
M1770-20	MW-103S	1735	107									
CCV26	CCV26	1748	104									
CCB26	CCB26	1817	108									
M1770-20DUP	MW-103SDUP	1820	108									
M1770-20L	MW-103SL	1823	109									
M1770-20MS	MW-103SMS	1826	106									
M1770-20MSD	MW-103SMSD	1829	105									
M1770-20A	MW-103SA	1832	106									
CCV27	CCV27	1835	107									
CCB27	CCB27	1842	106									

Internal Standard %RI Limit: 70 -130

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Metals

-9 -

ICP SERIAL DILUTIONS

SAMPLE NO.

MW-106SL

Lab Name: Chemtech Consulting Group **Contract:** TRCE03

Lab Code: CHEM **Lb No.:** lb113739 **Lab Sample ID :** M1770-03L **SDG No.:** M1770

Matrix (soil/water): Water **Level (low/med):** LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	7.24	J	100	U	100.0		P
Antimony	2.00	U	10.0	U			P
Arsenic	0.20	J	5.00	U	100.0		P
Barium	130		127		2		P
Beryllium	1.00	U	5.00	U			P
Cadmium	1.00	U	5.00	U			P
Calcium	171000		164000		4		P
Chromium	2.00	U	10.0	U			P
Cobalt	0.090	J	5.00	U	100.0		P
Copper	2.00	U	10.0	U			P
Iron	145		130	J	11		P
Lead	1.00	U	5.00	U			P
Magnesium	45100		45100		0		P
Manganese	229		223		3		P
Nickel	0.54	J	5.00	U	100.0		P
Mercury	0.20	U	1.00	U			CV
Potassium	27700		26900		3		P
Selenium	5.00	U	25.0	U			P
Silver	1.00	U	5.00	U			P
Sodium	352000		350000		1		P
Thallium	1.00	U	5.00	U			P
Vanadium	1.48	J	1.55	J	5		P
Zinc	2.97		10.0	U	100.0		P

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Metals

-9 -

ICP SERIAL DILUTIONS

SAMPLE NO.

MW-103SL

Lab Name: Chemtech Consulting Group **Contract:** TRCE03

Lab Code: CHEM **Lb No.:** lb113739 **Lab Sample ID :** M1770-20L **SDG No.:** M1770

Matrix (soil/water): Water **Level (low/med):** LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	114		87.4	J	23		P
Antimony	0.22	J	10.0	U	100.0		P
Arsenic	0.97	J	0.70	J	28		P
Barium	485		464		4		P
Beryllium	1.00	U	5.00	U			P
Cadmium	1.00	U	5.00	U			P
Calcium	170000		161000		5		P
Chromium	0.97	J	10.0	U	100.0		P
Cobalt	0.34	J	0.35	J	3		P
Copper	3.69		10.0	U	100.0		P
Iron	6650		6620		1		P
Lead	3.30		3.75	J	14		P
Magnesium	175000		175000		0		P
Manganese	679		665		2		P
Nickel	1.18		1.10	J	7		P
Mercury	0.20	U	1.00	U			CV
Potassium	89700		87900		2		P
Selenium	6.72		25.0	U	100.0		P
Silver	1.00	U	5.00	U			P
Sodium	1790000	OR	1740000		3		P
Thallium	1.00	U	5.00	U			P
Vanadium	5.05		5.35	J	6		P
Zinc	6.53		8.55	J	31		P

METAL PREPARATION & INSTRUMENT DATA

METAL PREPARATION & ANALYICAL SUMMARY

Metals
- 13 -
SAMPLE PREPARATION SUMMARY

Client: TRC Companies, Inc. **SDG No.:** M1770

Contract: TRCE03 **Lab Code:** CHEM **Method:**

Case No.: M1770 **SAS No.:** M1770

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB135337**						
M1770-02	MW-106I	SAM	WATER	03/24/2021	30.0	30.0	
M1770-03	MW-106S	SAM	WATER	03/24/2021	30.0	30.0	
M1770-03DUP	MW-106SDUP	DUP	WATER	03/24/2021	30.0	30.0	
M1770-04	MW-106SMS	MS	WATER	03/24/2021	30.0	30.0	
M1770-05	MW-106SMSD	MSD	WATER	03/24/2021	30.0	30.0	
M1770-06	MW-105D	SAM	WATER	03/24/2021	30.0	30.0	
M1770-07	MW-105I	SAM	WATER	03/24/2021	30.0	30.0	
M1770-08	MW-105S	SAM	WATER	03/24/2021	30.0	30.0	
M1770-10	MW-106D	SAM	WATER	03/24/2021	30.0	30.0	
M1770-11	MW-104D	SAM	WATER	03/24/2021	30.0	30.0	
M1770-12	MW-104I	SAM	WATER	03/24/2021	30.0	30.0	
M1770-13	MW-103D	SAM	WATER	03/24/2021	30.0	30.0	
M1770-14	MW-103I	SAM	WATER	03/24/2021	30.0	30.0	
M1770-15	MW-101S	SAM	WATER	03/24/2021	30.0	30.0	
M1770-16	MW-101I	SAM	WATER	03/24/2021	30.0	30.0	
M1770-17	MW-101D	SAM	WATER	03/24/2021	30.0	30.0	
M1770-18	FB-03232021	SAM	WATER	03/24/2021	30.0	30.0	
PB135337BL	PB135337BL	MB	WATER	03/24/2021	30.0	30.0	
PB135337BS	PB135337BS	LCS	WATER	03/24/2021	30.0	30.0	

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Metals
- 13 -
SAMPLE PREPARATION SUMMARY

Client: TRC Companies, Inc. **SDG No.:** M1770

Contract: TRCE03 **Lab Code:** CHEM **Method:**

Case No.: M1770 **SAS No.:** M1770

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB135338**						
M1770-02	MW-106I	SAM	WATER	03/24/2021	50.0	50.0	
M1770-03	MW-106S	SAM	WATER	03/24/2021	50.0	50.0	
M1770-03DUP	MW-106SDUP	DUP	WATER	03/24/2021	50.0	50.0	
M1770-04	MW-106SMS	MS	WATER	03/24/2021	50.0	50.0	
M1770-05	MW-106SMSD	MSD	WATER	03/24/2021	50.0	50.0	
M1770-06	MW-105D	SAM	WATER	03/24/2021	50.0	50.0	
M1770-07	MW-105I	SAM	WATER	03/24/2021	50.0	50.0	
M1770-08	MW-105S	SAM	WATER	03/24/2021	50.0	50.0	
M1770-10	MW-106D	SAM	WATER	03/24/2021	50.0	50.0	
M1770-11	MW-104D	SAM	WATER	03/24/2021	50.0	50.0	
M1770-12	MW-104I	SAM	WATER	03/24/2021	50.0	50.0	
M1770-13	MW-103D	SAM	WATER	03/24/2021	50.0	50.0	
M1770-14	MW-103I	SAM	WATER	03/24/2021	50.0	50.0	
M1770-15	MW-101S	SAM	WATER	03/24/2021	50.0	50.0	
M1770-16	MW-101I	SAM	WATER	03/24/2021	50.0	50.0	
M1770-17	MW-101D	SAM	WATER	03/24/2021	50.0	50.0	
M1770-18	FB-03232021	SAM	WATER	03/24/2021	50.0	50.0	
PB135338BL	PB135338BL	MB	WATER	03/24/2021	50.0	50.0	
PB135338BS	PB135338BS	LCS	WATER	03/24/2021	50.0	50.0	

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Metals
- 13 -
SAMPLE PREPARATION SUMMARY

Client: TRC Companies, Inc. **SDG No.:** M1770

Contract: TRCE03 **Lab Code:** CHEM **Method:**

Case No.: M1770 **SAS No.:** M1770

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB135357**						
M1770-20	MW-103S	SAM	WATER	03/25/2021	50.0	50.0	
M1770-20DUP	MW-103SDUP	DUP	WATER	03/25/2021	50.0	50.0	
M1770-20MS	MW-103SMS	MS	WATER	03/25/2021	50.0	50.0	
M1770-20MSD	MW-103SMSD	MSD	WATER	03/25/2021	50.0	50.0	
M1770-21	MW-102D	SAM	WATER	03/25/2021	50.0	50.0	
M1770-22	MW-102S	SAM	WATER	03/25/2021	50.0	50.0	
M1770-23	MW-102I	SAM	WATER	03/25/2021	50.0	50.0	
M1770-24	MW-107I	SAM	WATER	03/25/2021	50.0	50.0	
PB135357BL	PB135357BL	MB	WATER	03/25/2021	50.0	50.0	
PB135357BS	PB135357BS	LCS	WATER	03/25/2021	50.0	50.0	

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Metals
- 13 -
SAMPLE PREPARATION SUMMARY

Client: TRC Companies, Inc. **SDG No.:** M1770

Contract: TRCE03 **Lab Code:** CHEM **Method:**

Case No.: M1770 **SAS No.:** M1770

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB135365**						
M1770-20	MW-103S	SAM	WATER	03/25/2021	30.0	30.0	
M1770-20DUP	MW-103SDUP	DUP	WATER	03/25/2021	30.0	30.0	
M1770-20MS	MW-103SMS	MS	WATER	03/25/2021	30.0	30.0	
M1770-20MSD	MW-103SMSD	MSD	WATER	03/25/2021	30.0	30.0	
M1770-21	MW-102D	SAM	WATER	03/25/2021	30.0	30.0	
M1770-22	MW-102S	SAM	WATER	03/25/2021	30.0	30.0	
M1770-23	MW-102I	SAM	WATER	03/25/2021	30.0	30.0	
M1770-24	MW-107I	SAM	WATER	03/25/2021	30.0	30.0	
PB135365BL	PB135365BL	MB	WATER	03/25/2021	30.0	30.0	
PB135365BS	PB135365BS	LCS	WATER	03/25/2021	30.0	30.0	

metals
- 14 -
ANALYSIS RUN LOG

Client: TRC Companies, Inc. **Contract:** TRCE03

Lab code: CHEM **Case no.:** M1770 **Sas no.:** M1770 **Sdg no.:** M1770

Instrument id number: **Method:** **Run number:** LB113664

Start date: 03/25/2021 **End date:** 03/25/2021

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1003	HG
S0.2	S0.2	1	1005	HG
S2.5	S2.5	1	1007	HG
S5	S5	1	1009	HG
S7.5	S7.5	1	1012	HG
S10	S10	1	1017	HG
ICV52	ICV52	1	1019	HG
ICB52	ICB52	1	1022	HG
CCV76	CCV76	1	1024	HG
CCB76	CCB76	1	1026	HG
CRA	CRA	1	1028	HG
CCV77	CCV77	1	1051	HG
CCB77	CCB77	1	1053	HG
CCV78	CCV78	1	1118	HG
CCB78	CCB78	1	1120	HG
PB135337BL	PB135337BL	1	1134	HG
PB135337BS	PB135337BS	1	1150	HG
M1770-02	MW-106I	1	1152	HG
M1770-03	MW-106S	1	1154	HG
M1770-03DUP	MW-106SDUP	1	1156	HG
CCV79	CCV79	1	1159	HG
CCB79	CCB79	1	1201	HG
M1770-04	MW-106SMS	1	1203	HG
M1770-05	MW-106SMSD	1	1206	HG
M1770-06	MW-105D	1	1208	HG
M1770-07	MW-105I	1	1210	HG
M1770-08	MW-105S	1	1212	HG
M1770-10	MW-106D	1	1215	HG
M1770-11	MW-104D	1	1217	HG
M1770-12	MW-104I	1	1219	HG
M1770-13	MW-103D	1	1221	HG
M1770-14	MW-103I	1	1224	HG
CCV80	CCV80	1	1226	HG
CCB80	CCB80	1	1228	HG
M1770-15	MW-101S	1	1230	HG
M1770-16	MW-101I	1	1233	HG
M1770-17	MW-101D	1	1235	HG
M1770-18	FB-03232021	1	1237	HG
CCV81	CCV81	1	1251	HG
CCB81	CCB81	1	1253	HG
M1770-03L	MW-106SL	5	1304	HG
CCV82	CCV82	1	1309	HG
CCB82	CCB82	1	1311	HG

metals
- 14 -
ANALYSIS RUN LOG

Client: TRC Companies, Inc. **Contract:** TRCE03

Lab code: CHEM **Case no.:** M1770 **Sas no.:** M1770 **Sdg no.:** M1770

Instrument id number: **Method:** **Run number:** LB113693

Start date: 03/26/2021 **End date:** 03/26/2021

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1144	HG
S0.2	S0.2	1	1147	HG
S2.5	S2.5	1	1149	HG
S5	S5	1	1151	HG
S7.5	S7.5	1	1153	HG
S10	S10	1	1156	HG
ICV54	ICV54	1	1159	HG
ICB54	ICB54	1	1201	HG
CCV86	CCV86	1	1206	HG
CCB86	CCB86	1	1208	HG
CRA	CRA	1	1210	HG
CCV87	CCV87	1	1233	HG
CCB87	CCB87	1	1235	HG
PB135365BL	PB135365BL	1	1248	HG
PB135365BS	PB135365BS	1	1251	HG
M1770-20	MW-103S	1	1253	HG
M1770-20DUP	MW-103SDUP	1	1255	HG
M1770-20MS	MW-103SMS	1	1258	HG
CCV88	CCV88	1	1300	HG
CCB88	CCB88	1	1302	HG
M1770-20MSD	MW-103SMSD	1	1304	HG
M1770-21	MW-102D	1	1307	HG
M1770-22	MW-102S	1	1309	HG
M1770-23	MW-102I	1	1311	HG
M1770-24	MW-107I	1	1313	HG
CCV89	CCV89	1	1320	HG
CCB89	CCB89	1	1322	HG
M1770-20L	MW-103SL	5	1329	HG
CCV90	CCV90	1	1334	HG
CCB90	CCB90	1	1336	HG

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

metals
- 14 -
ANALYSIS RUN LOG

Client: TRC Companies, Inc. **Contract:** TRCE03

Lab code: CHEM **Case no.:** M1770 **Sas no.:** M1770 **Sdg no.:** M1770

Instrument id number: **Method:** **Run number:** LB113739

Start date: 03/29/2021 **End date:** 03/29/2021

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1228	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1235	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1238	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1241	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1244	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S6	S6	1	1247	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S7	S7	1	1250	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S8	S8	1	1253	Al,Ca,Fe,K,Mg,Na
ICV01	ICV01	1	1327	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV01	LLICV01	1	1354	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1358	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1401	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1404	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV22	CCV22	1	1407	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB22	CCB22	1	1417	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI	CRI	1	1420	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB135338BL	PB135338BL	1	1423	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB135338BS	PB135338BS	1	1426	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
M1770-02	MW-106I	1	1433	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Ni,Pb,Sb,Se,Tl,V,Zn
M1770-03	MW-106S	1	1436	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
M1770-03DUP	MW-106SDUP	1	1438	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
M1770-03L	MW-106SL	5	1441	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
M1770-04	MW-106SMS	1	1444	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
M1770-05	MW-106SMSD	1	1447	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
M1770-03A	MW-106SA	1	1450	Ag
CCV23	CCV23	1	1510	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB23	CCB23	1	1520	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
M1770-06	MW-105D	1	1523	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Ni,Pb,Sb,Se,Tl,V,Zn
M1770-07	MW-105I	1	1525	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
M1770-08	MW-105S	1	1528	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
M1770-10	MW-106D	1	1531	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
M1770-11	MW-104D	1	1534	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mn,Ni,Pb,Sb,Se,Tl,V,Zn
M1770-12	MW-104I	1	1537	Ag,Al,As,Ba,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
M1770-13	MW-103D	1	1539	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
M1770-14	MW-103I	1	1542	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
M1770-15	MW-101S	1	1545	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
M1770-16	MW-101I	1	1548	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV24	CCV24	1	1554	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB24	CCB24	1	1604	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
M1770-17	MW-101D	1	1607	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
M1770-18	FB-03232021	1	1610	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
M1770-02	MW-106I	5	1613	Na
M1770-06	MW-105D	5	1616	Na

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

metals
- 14 -
ANALYSIS RUN LOG

Client: TRC Companies, Inc. **Contract:** TRCE03

Lab code: CHEM **Case no.:** M1770 **Sas no.:** M1770 **Sdg no.:** M1770

Instrument id number: **Method:** **Run number:** LB113739

Start date: 03/29/2021 **End date:** 03/29/2021

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
M1770-11	MW-104D	20	1619	Mg,Na
M1770-12	MW-104I	5	1621	Be
M1770-21	MW-102D	1	1624	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
M1770-20	MW-103S	1	1627	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Ni,Pb,Sb,Se,Tl,V,Zn
M1770-20DUP	MW-103SDUP	1	1630	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Ni,Pb,Sb,Se,Tl,V,Zn
M1770-20L	MW-103SL	5	1633	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV25	CCV25	1	1639	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB25	CCB25	1	1652	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB135357BL	PB135357BL	1	1658	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB135357BS	PB135357BS	1	1701	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
M1770-22	MW-102S	1	1703	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
M1770-23	MW-102I	1	1706	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
M1770-24	MW-107I	1	1709	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
M1770-20MS	MW-103SMS	1	1727	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Ni,Pb,Sb,Se,Tl,V,Zn
M1770-20MSD	MW-103SMSD	1	1730	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Ni,Pb,Sb,Se,Tl,V,Zn
M1770-20	MW-103S	10	1735	Na
CCV26	CCV26	1	1748	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB26	CCB26	1	1817	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
M1770-20DUP	MW-103SDUP	10	1820	Na
M1770-20MS	MW-103SMS	10	1826	Na
M1770-20MSD	MW-103SMSD	10	1829	Na
CCV27	CCV27	1	1835	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB27	CCB27	1	1842	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV28	CCV28	1	1913	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB28	CCB28	1	1922	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV29	CCV29	1	1930	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB29	CCB29	1	1940	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

CHEMTECH

284 Sheffield Street, Mountainside, New Jersey - 07092

Phone: (908) 789 8900 Fax: (908) 789 8922

LAB CHRONICLE

OrderID:	M1770	**OrderDate:**	3/22/2021 4:40:20 PM
Client:	TRC Companies, Inc.	**Project:**	NYCDPR Bush Terminal LandFill Piers 1-4
Contact:	James Peronto, P.E., LEED AP	**Location:**	J52,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
M1770-02	**MW-106I**	**WATER**			**03/22/21 12:15**			**03/22/21**
			Anions Group1	300.0			03/23/21 11:54	
M1770-02DL	**MW-106IDL**	**WATER**			**03/22/21 12:15**			**03/22/21**
			Anions Group1	300.0			03/23/21 16:43	
M1770-03	**MW-106S**	**WATER**			**03/22/21 13:30**			**03/22/21**
			Anions Group1	300.0			03/23/21 12:26	
M1770-03DL	**MW-106SDL**	**WATER**			**03/22/21 13:30**			**03/22/21**
			Anions Group1	300.0			03/23/21 17:14	
M1770-06	**MW-105D**	**WATER**			**03/22/21 13:18**			**03/22/21**
			Anions Group1	300.0			03/23/21 12:58	
M1770-06DL	**MW-105DDL**	**WATER**			**03/22/21 13:18**			**03/22/21**
			Anions Group1	300.0			03/23/21 17:46	
M1770-07	**MW-105I**	**WATER**			**03/22/21 15:30**			**03/22/21**
			Anions Group1	300.0			03/23/21 13:30	
M1770-07DL	**MW-105IDL**	**WATER**			**03/22/21 15:30**			**03/22/21**

LAB CHRONICLE

			Anions Group1	300.0		03/23/21 18:18	
M1770-08	**MW-105S**	**WATER**			**03/22/21 15:45**		**03/22/21**
			Anions Group1	300.0		03/23/21 14:02	
M1770-08DL	**MW-105SDL**	**WATER**			**03/22/21 15:45**		**03/22/21**
			Anions Group1	300.0		03/23/21 18:50	
M1770-10	**MW-106D**	**WATER**			**03/23/21 09:40**		**03/23/21**
			Anions Group1	300.0		03/24/21 11:16	
M1770-11	**MW-104D**	**WATER**			**03/23/21 10:05**		**03/23/21**
			Anions Group1	300.0		03/24/21 11:48	
M1770-11DL	**MW-104DDL**	**WATER**			**03/23/21 10:05**		**03/23/21**
			Anions Group1	300.0		03/24/21 18:10	
M1770-12	**MW-104I**	**WATER**			**03/23/21 09:55**		**03/23/21**
			Anions Group1	300.0		03/24/21 18:42	
M1770-13	**MW-103D**	**WATER**			**03/23/21 11:50**		**03/23/21**
			Anions Group1	300.0		03/24/21 19:14	
M1770-14	**MW-103I**	**WATER**			**03/23/21 13:30**		**03/23/21**
			Anions Group1	300.0		03/24/21 19:46	
M1770-15	**MW-101S**	**WATER**			**03/23/21 15:50**		**03/23/21**
			Anions Group1	300.0		03/24/21 13:55	

CHEMTECH
284 Sheffield Street, Mountainside, New Jersey - 07092
Phone: (908) 789 8900 Fax: (908) 789 8922

LAB CHRONICLE

M1770-15DL	**MW-101SDL**	**WATER**			**03/23/21 15:50**		**03/23/21**
			Anions Group1	300.0		03/24/21 20:18	
M1770-16	**MW-101I**	**WATER**			**03/23/21 12:30**		**03/23/21**
			Anions Group1	300.0		03/24/21 14:27	
M1770-16DL	**MW-101IDL**	**WATER**			**03/23/21 12:30**		**03/23/21**
			Anions Group1	300.0		03/24/21 20:50	
M1770-17	**MW-101D**	**WATER**			**03/23/21 13:50**		**03/23/21**
			Anions Group1	300.0		03/24/21 14:59	
M1770-17DL	**MW-101DDL**	**WATER**			**03/23/21 13:50**		**03/23/21**
			Anions Group1	300.0		03/24/21 21:22	
M1770-18	**FB-03232021**	**WATER**			**03/23/21 14:45**		**03/23/21**
			Anions Group1	300.0		03/24/21 16:35	
M1770-20	**MW-103S**	**WATER**			**03/24/21 11:30**		**03/24/21**
			Anions Group1	300.0		03/25/21 16:15	
M1770-20DL	**MW-103SDL**	**WATER**			**03/24/21 11:30**		**03/24/21**
			Anions Group1	300.0		03/26/21 12:43	
M1770-21	**MW-102D**	**WATER**			**03/24/21 11:30**		**03/24/21**
			Anions Group1	300.0		03/25/21 16:47	

CHEMTECH
284 Sheffield Street, Mountainside, New Jersey - 07092
Phone: (908) 789 8900 Fax: (908) 789 8922

LAB CHRONICLE

M1770-21DL	**MW-102DDL**	**WATER**			**03/24/21 11:30**		**03/24/21**
			Anions Group1	300.0		03/26/21 13:16	
M1770-22	**MW-102S**	**WATER**			**03/24/21 13:55**		**03/24/21**
			Anions Group1	300.0		03/25/21 17:19	
M1770-23	**MW-102I**	**WATER**			**03/24/21 13:40**		**03/24/21**
			Anions Group1	300.0		03/25/21 17:50	
M1770-23DL	**MW-102IDL**	**WATER**			**03/24/21 13:40**		**03/24/21**
			Anions Group1	300.0		03/26/21 13:49	
M1770-24	**MW-107I**	**WATER**			**03/24/21 13:45**		**03/24/21**
			Anions Group1	300.0		03/25/21 18:22	
M1770-24DL	**MW-107IDL**	**WATER**			**03/24/21 13:45**		**03/24/21**
			Anions Group1	300.0		03/26/21 14:22	

SAMPLE DATA

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/22/21 12:15
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/22/21
Client Sample ID:	MW-106I	SDG No.:	M1770
Lab Sample ID:	M1770-02	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	1750	OR	1	0.070	0.60	mg/L		03/23/21 11:54	300.0

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/22/21 12:15
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/22/21
Client Sample ID:	MW-106IDL	SDG No.:	M1770
Lab Sample ID:	M1770-02DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	1050	D	400	27.9	240	mg/L		03/23/21 16:43	300.0

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time
J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/22/21 13:30
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/22/21
Client Sample ID:	MW-106S	SDG No.:	M1770
Lab Sample ID:	M1770-03	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	745	OR	1	0.070	0.60	mg/L		03/23/21 12:26	300.0

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/22/21 13:30
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/22/21
Client Sample ID:	MW-106SDL	SDG No.:	M1770
Lab Sample ID:	M1770-03DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	440	D	100	7.00	60.0	mg/L		03/23/21 17:14	300.0

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/22/21 13:18
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/22/21
Client Sample ID:	MW-105D	SDG No.:	M1770
Lab Sample ID:	M1770-06	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	2960	OR	1	0.070	0.60	mg/L		03/23/21 12:58	300.0

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/22/21 13:18
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/22/21
Client Sample ID:	MW-105DDL	SDG No.:	M1770
Lab Sample ID:	M1770-06DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	1850	D	500	34.8	300	mg/L		03/23/21 17:46	300.0

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/22/21 15:30
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/22/21
Client Sample ID:	MW-105I	SDG No.:	M1770
Lab Sample ID:	M1770-07	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	737	OR	1	0.070	0.60	mg/L		03/23/21 13:30	300.0

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/22/21 15:30
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/22/21
Client Sample ID:	MW-105IDL	SDG No.:	M1770
Lab Sample ID:	M1770-07DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	457	D	100	7.00	60.0	mg/L		03/23/21 18:18	300.0

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/22/21 15:45
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/22/21
Client Sample ID:	MW-105S	SDG No.:	M1770
Lab Sample ID:	M1770-08	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	881	OR	1	0.070	0.60	mg/L		03/23/21 14:02	300.0

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/22/21 15:45
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/22/21
Client Sample ID:	MW-105SDL	SDG No.:	M1770
Lab Sample ID:	M1770-08DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	523	D	200	13.9	120	mg/L		03/23/21 18:50	300.0

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21 09:40
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-106D	SDG No.:	M1770
Lab Sample ID:	M1770-10	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	83.6	D	20	1.40	12.0	mg/L		03/24/21 11:16	300.0

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time
J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21 10:05
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-104D	SDG No.:	M1770
Lab Sample ID:	M1770-11	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	13800	OR	20	1.40	12.0	mg/L		03/24/21 11:48	300.0

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21 10:05
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-104DDL	SDG No.:	M1770
Lab Sample ID:	M1770-11DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	8620	D	2000	139	1200	mg/L		03/24/21 18:10	300.0

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21 09:55
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-104I	SDG No.:	M1770
Lab Sample ID:	M1770-12	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	10.0	D	2	0.14	1.20	mg/L		03/24/21 18:42	300.0

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21 11:50
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-103D	SDG No.:	M1770
Lab Sample ID:	M1770-13	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	12.1	D	2	0.14	1.20	mg/L		03/24/21 19:14	300.0

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21 13:30
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-103I	SDG No.:	M1770
Lab Sample ID:	M1770-14	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	10.4	D	2	0.14	1.20	mg/L		03/24/21 19:46	300.0

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21 15:50
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-101S	SDG No.:	M1770
Lab Sample ID:	M1770-15	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	293	OR	20	1.40	12.0	mg/L		03/24/21 13:55	300.0

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21 15:50
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-101SDL	SDG No.:	M1770
Lab Sample ID:	M1770-15DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	268	D	50	3.50	30.0	mg/L		03/24/21 20:18	300.0

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21 12:30
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-101I	SDG No.:	M1770
Lab Sample ID:	M1770-16	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	347	OR	20	1.40	12.0	mg/L		03/24/21 14:27	300.0

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time
J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21 12:30
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-101IDL	SDG No.:	M1770
Lab Sample ID:	M1770-16DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	311	D	50	3.50	30.0	mg/L		03/24/21 20:50	300.0

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21 13:50
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-101D	SDG No.:	M1770
Lab Sample ID:	M1770-17	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	410	OR	20	1.40	12.0	mg/L		03/24/21 14:59	300.0

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21 13:50
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	MW-101DDL	SDG No.:	M1770
Lab Sample ID:	M1770-17DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	338	D	100	7.00	60.0	mg/L		03/24/21 21:22	300.0

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/23/21 14:45
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/23/21
Client Sample ID:	FB-03232021	SDG No.:	M1770
Lab Sample ID:	M1770-18	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	1.00		1	0.070	0.60	mg/L		03/24/21 16:35	300.0

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/24/21 11:30
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/24/21
Client Sample ID:	MW-103S	SDG No.:	M1770
Lab Sample ID:	M1770-20	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	4330	OR	5	0.35	3.00	mg/L		03/25/21 16:15	300.0

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/24/21 11:30
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/24/21
Client Sample ID:	MW-103SDL	SDG No.:	M1770
Lab Sample ID:	M1770-20DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	2660	D	1000	69.7	600	mg/L		03/26/21 12:43	300.0

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time
J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/24/21 11:30
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/24/21
Client Sample ID:	MW-102D	SDG No.:	M1770
Lab Sample ID:	M1770-21	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	334	OR	5	0.35	3.00	mg/L		03/25/21 16:47	300.0

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/24/21 11:30
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/24/21
Client Sample ID:	MW-102DDL	SDG No.:	M1770
Lab Sample ID:	M1770-21DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	258	D	50	3.50	30.0	mg/L		03/26/21 13:16	300.0

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/24/21 13:55
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/24/21
Client Sample ID:	MW-102S	SDG No.:	M1770
Lab Sample ID:	M1770-22	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	8.30	D	5	0.35	3.00	mg/L		03/25/21 17:19	300.0

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/24/21 13:40
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/24/21
Client Sample ID:	MW-102I	SDG No.:	M1770
Lab Sample ID:	M1770-23	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	346	OR	5	0.35	3.00	mg/L		03/25/21 17:50	300.0

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/24/21 13:40
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/24/21
Client Sample ID:	MW-102IDL	SDG No.:	M1770
Lab Sample ID:	M1770-23DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	261	D	50	3.50	30.0	mg/L		03/26/21 13:49	300.0

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/24/21 13:45
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/24/21
Client Sample ID:	MW-107I	SDG No.:	M1770
Lab Sample ID:	M1770-24	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	341	OR	5	0.35	3.00	mg/L		03/25/21 18:22	300.0

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time
J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	03/24/21 13:45
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	Date Received:	03/24/21
Client Sample ID:	MW-107IDL	SDG No.:	M1770
Lab Sample ID:	M1770-24DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	267	D	50	3.50	30.0	mg/L		03/26/21 14:22	300.0

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

QC RESULT SUMMARY

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Initial and Continuing Calibration Verification

Client: TRC Companies, Inc. **SDG No.:** M1770

Project: NYCDPR Bush Terminal LandFill Piers 1-4 **RunNo.:** LB113629

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1						
Bromide	mg/L	9.8	10	98	90-110	03/09/2021
Chloride	mg/L	2.9	3	97	90-110	03/09/2021
Fluoride	mg/L	2	2	100	90-110	03/09/2021
Nitrite	mg/L	2.9	3	97	90-110	03/09/2021
Nitrate	mg/L	2.4	2.5	96	90-110	03/09/2021
Sulfate	mg/L	14.5	15	97	90-110	03/09/2021
Orthophosphate as P	mg/L	5	5	100	90-110	03/09/2021
Sample ID: CCV1						
Bromide	mg/L	9.3	10	93	90-110	03/23/2021
Chloride	mg/L	2.8	3	93	90-110	03/23/2021
Fluoride	mg/L	1.9	2	95	90-110	03/23/2021
Nitrite	mg/L	2.8	3	93	90-110	03/23/2021
Nitrate	mg/L	2.3	2.5	92	90-110	03/23/2021
Sulfate	mg/L	13.7	15	91	90-110	03/23/2021
Orthophosphate as P	mg/L	5.1	5	102	90-110	03/23/2021
Sample ID: CCV2						
Bromide	mg/L	9.3	10	93	90-110	03/23/2021
Chloride	mg/L	2.8	3	93	90-110	03/23/2021
Fluoride	mg/L	1.9	2	95	90-110	03/23/2021
Nitrite	mg/L	2.8	3	93	90-110	03/23/2021
Nitrate	mg/L	2.3	2.5	92	90-110	03/23/2021
Sulfate	mg/L	13.9	15	93	90-110	03/23/2021
Orthophosphate as P	mg/L	6.4	5	128	90-110	03/23/2021
Sample ID: CCV3						
Bromide	mg/L	9.3	10	93	90-110	03/23/2021
Chloride	mg/L	2.8	3	93	90-110	03/23/2021
Fluoride	mg/L	2	2	100	90-110	03/23/2021
Nitrite	mg/L	2.8	3	93	90-110	03/23/2021
Nitrate	mg/L	2.4	2.5	96	90-110	03/23/2021
Sulfate	mg/L	14	15	93	90-110	03/23/2021
Orthophosphate as P	mg/L	5.6	5	112	90-110	03/23/2021
Sample ID: CCV4						
Bromide	mg/L	9.2	10	92	90-110	03/24/2021
Chloride	mg/L	2.8	3	93	90-110	03/24/2021
Fluoride	mg/L	2	2	100	90-110	03/24/2021
Nitrite	mg/L	2.8	3	93	90-110	03/24/2021
Nitrate	mg/L	2.3	2.5	92	90-110	03/24/2021
Sulfate	mg/L	14.1	15	94	90-110	03/24/2021
Orthophosphate as P	mg/L	5.1	5	102	90-110	03/24/2021
Sample ID: CCV5						
Bromide	mg/L	9.6	10	96	90-110	03/24/2021

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Initial and Continuing Calibration Verification

Client: TRC Companies, Inc. **SDG No.:** M1770

Project: NYCDPR Bush Terminal LandFill Piers 1-4 **RunNo.:** LB113629

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Chloride	mg/L	2.9	3	97	90-110	03/24/2021
Fluoride	mg/L	2	2	100	90-110	03/24/2021
Nitrite	mg/L	2.9	3	97	90-110	03/24/2021
Nitrate	mg/L	2.3	2.5	92	90-110	03/24/2021
Sulfate	mg/L	14	15	93	90-110	03/24/2021
Orthophosphate as P	mg/L	5.4	5	108	90-110	03/24/2021
Sample ID: CCV6						
Bromide	mg/L	9.3	10	93	90-110	03/24/2021
Chloride	mg/L	2.8	3	93	90-110	03/24/2021
Fluoride	mg/L	2	2	100	90-110	03/24/2021
Nitrite	mg/L	2.9	3	97	90-110	03/24/2021
Nitrate	mg/L	2.3	2.5	92	90-110	03/24/2021
Sulfate	mg/L	13.6	15	91	90-110	03/24/2021
Orthophosphate as P	mg/L	5.5	5	110	90-110	03/24/2021

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Initial and Continuing Calibration Verification

Client: TRC Companies, Inc. **SDG No.:** M1770

Project: NYCDPR Bush Terminal LandFill Piers 1-4 **RunNo.:** LB113684

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1						
Bromide	mg/L	9.8	10	98	90-110	03/09/2021
Chloride	mg/L	2.9	3	97	90-110	03/09/2021
Fluoride	mg/L	2	2	100	90-110	03/09/2021
Nitrite	mg/L	2.9	3	97	90-110	03/09/2021
Nitrate	mg/L	2.4	2.5	96	90-110	03/09/2021
Sulfate	mg/L	14.5	15	97	90-110	03/09/2021
Orthophosphate as P	mg/L	5	5	100	90-110	03/09/2021
Sample ID: CCV1						
Bromide	mg/L	9.1	10	91	90-110	03/25/2021
Chloride	mg/L	2.8	3	93	90-110	03/25/2021
Fluoride	mg/L	1.8	2	90	90-110	03/25/2021
Nitrite	mg/L	2.8	3	93	90-110	03/25/2021
Nitrate	mg/L	2.3	2.5	92	90-110	03/25/2021
Sulfate	mg/L	13.5	15	90	90-110	03/25/2021
Orthophosphate as P	mg/L	5.2	5	104	90-110	03/25/2021
Sample ID: CCV2						
Bromide	mg/L	9.2	10	92	90-110	03/25/2021
Chloride	mg/L	2.8	3	93	90-110	03/25/2021
Fluoride	mg/L	2	2	100	90-110	03/25/2021
Nitrite	mg/L	2.8	3	93	90-110	03/25/2021
Nitrate	mg/L	2.3	2.5	92	90-110	03/25/2021
Sulfate	mg/L	13.6	15	91	90-110	03/25/2021
Orthophosphate as P	mg/L	5.5	5	110	90-110	03/25/2021
Sample ID: CCV3						
Bromide	mg/L	9.2	10	92	90-110	03/26/2021
Chloride	mg/L	2.8	3	93	90-110	03/26/2021
Fluoride	mg/L	2	2	100	90-110	03/26/2021
Nitrite	mg/L	2.8	3	93	90-110	03/26/2021
Nitrate	mg/L	2.3	2.5	92	90-110	03/26/2021
Sulfate	mg/L	13.5	15	90	90-110	03/26/2021
Orthophosphate as P	mg/L	5	5	100	90-110	03/26/2021
Sample ID: CCV4						
Bromide	mg/L	9.3	10	93	90-110	03/26/2021
Chloride	mg/L	2.9	3	97	90-110	03/26/2021
Fluoride	mg/L	1.9	2	95	90-110	03/26/2021
Nitrite	mg/L	3.2	3	107	90-110	03/26/2021
Nitrate	mg/L	2.3	2.5	92	90-110	03/26/2021
Sulfate	mg/L	13.5	15	90	90-110	03/26/2021
Orthophosphate as P	mg/L	5	5	100	90-110	03/26/2021

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Initial and Continuing Calibration Blank Summary

Client: TRC Companies, Inc. **SDG No.:** M1770

Project: NYCDPR Bush Terminal LandFill Piers 1-4 **RunNo.:** LB113629

Analyte	Units	Result	Acceptance Limits	MDL	RDL	Analysis Date
Sample ID: ICB1						
Bromide	mg/L	< 1.0000	1.0000	0.14	2	03/09/2021
Chloride	mg/L	< 0.3000	0.3000	0.07	0.6	03/09/2021
Fluoride	mg/L	< 0.2000	0.2000	0.07	0.4	03/09/2021
Nitrite	mg/L	< 0.3000	0.3000	0.053	0.6	03/09/2021
Nitrate	mg/L	< 0.2500	0.2500	0.046	0.5	03/09/2021
Sulfate	mg/L	< 1.5000	1.5000	0.4	3	03/09/2021
Orthophosphate as P	mg/L	< 0.5000	0.5000	0.086	1	03/09/2021
Sample ID: CCB1						
Bromide	mg/L	< 1.0000	1.0000	0.14	2	03/23/2021
Chloride	mg/L	< 0.3000	0.3000	0.07	0.6	03/23/2021
Fluoride	mg/L	< 0.2000	0.2000	0.07	0.4	03/23/2021
Nitrite	mg/L	< 0.3000	0.3000	0.053	0.6	03/23/2021
Nitrate	mg/L	< 0.2500	0.2500	0.046	0.5	03/23/2021
Sulfate	mg/L	< 1.5000	1.5000	0.4	3	03/23/2021
Orthophosphate as P	mg/L	< 0.5000	0.5000	0.086	1	03/23/2021
Sample ID: CCB2						
Bromide	mg/L	< 1.0000	1.0000	0.14	2	03/23/2021
Chloride	mg/L	< 0.3000	0.3000	0.07	0.6	03/23/2021
Fluoride	mg/L	< 0.2000	0.2000	0.07	0.4	03/23/2021
Nitrite	mg/L	< 0.3000	0.3000	0.053	0.6	03/23/2021
Nitrate	mg/L	< 0.2500	0.2500	0.046	0.5	03/23/2021
Sulfate	mg/L	< 1.5000	1.5000	0.4	3	03/23/2021
Orthophosphate as P	mg/L	< 0.5000	0.5000	0.086	1	03/23/2021
Sample ID: CCB3						
Bromide	mg/L	< 1.0000	1.0000	0.14	2	03/23/2021
Chloride	mg/L	< 0.3000	0.3000	0.07	0.6	03/23/2021
Fluoride	mg/L	< 0.2000	0.2000	0.07	0.4	03/23/2021
Nitrite	mg/L	< 0.3000	0.3000	0.053	0.6	03/23/2021
Nitrate	mg/L	< 0.2500	0.2500	0.046	0.5	03/23/2021
Sulfate	mg/L	< 1.5000	1.5000	0.4	3	03/23/2021
Orthophosphate as P	mg/L	< 0.5000	0.5000	0.086	1	03/23/2021
Sample ID: CCB4						
Bromide	mg/L	< 1.0000	1.0000	0.14	2	03/24/2021
Chloride	mg/L	< 0.3000	0.3000	0.07	0.6	03/24/2021
Fluoride	mg/L	< 0.2000	0.2000	0.07	0.4	03/24/2021
Nitrite	mg/L	< 0.3000	0.3000	0.053	0.6	03/24/2021
Nitrate	mg/L	< 0.2500	0.2500	0.046	0.5	03/24/2021
Sulfate	mg/L	< 1.5000	1.5000	0.4	3	03/24/2021
Orthophosphate as P	mg/L	< 0.5000	0.5000	0.086	1	03/24/2021
Sample ID: CCB5						
Bromide	mg/L	< 1.0000	1.0000	0.14	2	03/24/2021
Chloride	mg/L	< 0.3000	0.3000	0.07	0.6	03/24/2021
Fluoride	mg/L	< 0.2000	0.2000	0.07	0.4	03/24/2021
Nitrite	mg/L	< 0.3000	0.3000	0.053	0.6	03/24/2021
Nitrate	mg/L	< 0.2500	0.2500	0.046	0.5	03/24/2021
Sulfate	mg/L	< 1.5000	1.5000	0.4	3	03/24/2021

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Initial and Continuing Calibration Blank Summary

Client: TRC Companies, Inc. **SDG No.:** M1770

Project: NYCDPR Bush Terminal LandFill Piers 1-4 **RunNo.:** LB113629

Analyte	Units	Result	Acceptance Limits	MDL	RDL	Analysis Date
Orthophosphate as P	mg/L	< 0.5000	0.5000	0.086	1	03/24/2021
Sample ID: CCB6						
Bromide	mg/L	< 1.0000	1.0000	0.14	2	03/24/2021
Chloride	mg/L	< 0.3000	0.3000	0.07	0.6	03/24/2021
Fluoride	mg/L	< 0.2000	0.2000	0.07	0.4	03/24/2021
Nitrite	mg/L	< 0.3000	0.3000	0.053	0.6	03/24/2021
Nitrate	mg/L	< 0.2500	0.2500	0.046	0.5	03/24/2021
Sulfate	mg/L	< 1.5000	1.5000	0.4	3	03/24/2021
Orthophosphate as P	mg/L	< 0.5000	0.5000	0.086	1	03/24/2021

Initial and Continuing Calibration Blank Summary

Client: TRC Companies, Inc. **SDG No.:** M1770

Project: NYCDPR Bush Terminal LandFill Piers 1-4 **RunNo.:** LB113684

Analyte	Units	Result	Acceptance Limits	MDL	RDL	Analysis Date
Sample ID: ICB1						
Bromide	mg/L	< 1.0000	1.0000	0.14	2	03/09/2021
Chloride	mg/L	< 0.3000	0.3000	0.07	0.6	03/09/2021
Fluoride	mg/L	< 0.2000	0.2000	0.07	0.4	03/09/2021
Nitrite	mg/L	< 0.3000	0.3000	0.053	0.6	03/09/2021
Nitrate	mg/L	< 0.2500	0.2500	0.046	0.5	03/09/2021
Sulfate	mg/L	< 1.5000	1.5000	0.4	3	03/09/2021
Orthophosphate as P	mg/L	< 0.5000	0.5000	0.086	1	03/09/2021
Sample ID: CCB1						
Bromide	mg/L	< 1.0000	1.0000	0.14	2	03/25/2021
Chloride	mg/L	< 0.3000	0.3000	0.07	0.6	03/25/2021
Fluoride	mg/L	< 0.2000	0.2000	0.07	0.4	03/25/2021
Nitrite	mg/L	< 0.3000	0.3000	0.053	0.6	03/25/2021
Nitrate	mg/L	< 0.2500	0.2500	0.046	0.5	03/25/2021
Sulfate	mg/L	< 1.5000	1.5000	0.4	3	03/25/2021
Orthophosphate as P	mg/L	< 0.5000	0.5000	0.086	1	03/25/2021
Sample ID: CCB2						
Bromide	mg/L	< 1.0000	1.0000	0.14	2	03/25/2021
Chloride	mg/L	< 0.3000	0.3000	0.07	0.6	03/25/2021
Fluoride	mg/L	< 0.2000	0.2000	0.07	0.4	03/25/2021
Nitrite	mg/L	< 0.3000	0.3000	0.053	0.6	03/25/2021
Nitrate	mg/L	< 0.2500	0.2500	0.046	0.5	03/25/2021
Sulfate	mg/L	< 1.5000	1.5000	0.4	3	03/25/2021
Orthophosphate as P	mg/L	< 0.5000	0.5000	0.086	1	03/25/2021
Sample ID: CCB3						
Bromide	mg/L	< 1.0000	1.0000	0.14	2	03/26/2021
Chloride	mg/L	< 0.3000	0.3000	0.07	0.6	03/26/2021
Fluoride	mg/L	< 0.2000	0.2000	0.07	0.4	03/26/2021
Nitrite	mg/L	< 0.3000	0.3000	0.053	0.6	03/26/2021
Nitrate	mg/L	< 0.2500	0.2500	0.046	0.5	03/26/2021
Sulfate	mg/L	< 1.5000	1.5000	0.4	3	03/26/2021
Orthophosphate as P	mg/L	< 0.5000	0.5000	0.086	1	03/26/2021
Sample ID: CCB4						
Bromide	mg/L	< 1.0000	1.0000	0.14	2	03/26/2021
Chloride	mg/L	< 0.3000	0.3000	0.07	0.6	03/26/2021
Fluoride	mg/L	< 0.2000	0.2000	0.07	0.4	03/26/2021
Nitrite	mg/L	< 0.3000	0.3000	0.053	0.6	03/26/2021
Nitrate	mg/L	< 0.2500	0.2500	0.046	0.5	03/26/2021
Sulfate	mg/L	< 1.5000	1.5000	0.4	3	03/26/2021
Orthophosphate as P	mg/L	< 0.5000	0.5000	0.086	1	03/26/2021

Preparation Blank Summary

Client: TRC Companies, Inc. **SDG No.:** M1770

Project: NYCDPR Bush Terminal LandFill Piers 1-4

Analyte	Units	Result	Acceptance Limits	MDL	RDL	Analysis Date
Sample ID: LB113629BLW						
Bromide	mg/L	< 1.0000	1.0000	0.14	2	03/23/2021
Chloride	mg/L	< 0.3000	0.3000	0.07	0.6	03/23/2021
Fluoride	mg/L	< 0.2000	0.2000	0.07	0.4	03/23/2021
Nitrite	mg/L	< 0.3000	0.3000	0.053	0.6	03/23/2021
Nitrate	mg/L	< 0.2500	0.2500	0.046	0.5	03/23/2021
Sulfate	mg/L	< 1.5000	1.5000	0.4	3	03/23/2021
Orthophosphate as P	mg/L	< 0.5000	0.5000	0.086	1	03/23/2021
Sample ID: LB113629BLW2						
Bromide	mg/L	< 1.0000	1.0000	0.14	2	03/24/2021
Chloride	mg/L	< 0.3000	0.3000	0.07	0.6	03/24/2021
Fluoride	mg/L	< 0.2000	0.2000	0.07	0.4	03/24/2021
Nitrite	mg/L	< 0.3000	0.3000	0.053	0.6	03/24/2021
Nitrate	mg/L	< 0.2500	0.2500	0.046	0.5	03/24/2021
Sulfate	mg/L	< 1.5000	1.5000	0.4	3	03/24/2021
Orthophosphate as P	mg/L	< 0.5000	0.5000	0.086	1	03/24/2021
Sample ID: LB113684BLW						
Bromide	mg/L	< 1.0000	1.0000	0.14	2	03/25/2021
Chloride	mg/L	< 0.3000	0.3000	0.07	0.6	03/25/2021
Fluoride	mg/L	< 0.2000	0.2000	0.07	0.4	03/25/2021
Nitrite	mg/L	< 0.3000	0.3000	0.053	0.6	03/25/2021
Nitrate	mg/L	< 0.2500	0.2500	0.046	0.5	03/25/2021
Sulfate	mg/L	< 1.5000	1.5000	0.4	3	03/25/2021
Orthophosphate as P	mg/L	< 0.5000	0.5000	0.086	1	03/25/2021
Sample ID: LB113684BLW2						
Bromide	mg/L	< 1.0000	1.0000	0.14	2	03/26/2021
Chloride	mg/L	< 0.3000	0.3000	0.07	0.6	03/26/2021
Fluoride	mg/L	< 0.2000	0.2000	0.07	0.4	03/26/2021
Nitrite	mg/L	< 0.3000	0.3000	0.053	0.6	03/26/2021
Nitrate	mg/L	< 0.2500	0.2500	0.046	0.5	03/26/2021
Sulfate	mg/L	< 1.5000	1.5000	0.4	3	03/26/2021
Orthophosphate as P	mg/L	< 0.5000	0.5000	0.086	1	03/26/2021

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Matrix Spike Summary

Client: TRC Companies, Inc. **SDG No.:** M1770

Project: NYCDPR Bush Terminal LandFill Piers 1-4 **Sample ID:** M1763-03

Client ID: EL-509-WATER-SAMPLEMS **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Bromide	mg/L	80-120	11.5		2.20		10	1	93		03/26/2021
Chloride	mg/L	80-120	1000	OR	1020	OR	3	1	-667	*	03/26/2021
Fluoride	mg/L	80-120	2.60		1.00		2	1	80		03/26/2021
Nitrite	mg/L	80-120	3.00		0.30	J	3	1	90		03/26/2021
Nitrate	mg/L	80-120	6.50	OR	4.00		2.5	1	100		03/26/2021
Sulfate	mg/L	80-120	63.8	OR	50.2	OR	15	1	91		03/26/2021
Orthophosphate as P	mg/L	80-120	1.50		0.086	U	5	1	30	*	03/26/2021

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Matrix Spike Summary

Client: TRC Companies, Inc. **SDG No.:** M1770

Project: NYCDPR Bush Terminal LandFill Piers 1-4 **Sample ID:** M1763-03

Client ID: EL-509-WATER-SAMPLEMSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Bromide	mg/L	80-120	11.4		2.20		10	1	92		03/26/2021
Chloride	mg/L	80-120	976	OR	1020	OR	3	1	-1467	*	03/26/2021
Fluoride	mg/L	80-120	2.60		1.00		2	1	80		03/26/2021
Nitrite	mg/L	80-120	3.00		0.30	J	3	1	90		03/26/2021
Nitrate	mg/L	80-120	6.50	OR	4.00		2.5	1	100		03/26/2021
Sulfate	mg/L	80-120	63.8	OR	50.2	OR	15	1	91		03/26/2021
Orthophosphate as P	mg/L	80-120	1.00		0.086	U	5	1	20	*	03/26/2021

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Matrix Spike Summary

Client: TRC Companies, Inc. **SDG No.:** M1770

Project: NYCDPR Bush Terminal LandFill Piers 1-4 **Sample ID:** M1770-03

Client ID: MW-106SMS **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Bromide	mg/L	80-120	11.0		1.90	J	10	1	91		03/23/2021
Chloride	mg/L	80-120	703	OR	745	OR	3	1	-1400	*	03/23/2021
Fluoride	mg/L	80-120	3.00		0.79		2	1	111		03/23/2021
Nitrite	mg/L	80-120	3.30		0.053	U	3	1	110		03/23/2021
Nitrate	mg/L	80-120	2.40		0.046	U	2.5	1	96		03/23/2021
Sulfate	mg/L	80-120	84.1	OR	73.1	OR	15	1	73	*	03/23/2021
Orthophosphate as P	mg/L	80-120	6.30		0.086	U	5	1	126	*	03/23/2021

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Matrix Spike Summary

Client: TRC Companies, Inc. **SDG No.:** M1770

Project: NYCDPR Bush Terminal LandFill Piers 1-4 **Sample ID:** M1770-03

Client ID: MW-106SMSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Bromide	mg/L	80-120	10.7		1.90	J	10	1	88		03/23/2021
Chloride	mg/L	80-120	692	OR	745	OR	3	1	-1767	*	03/23/2021
Fluoride	mg/L	80-120	3.00		0.79		2	1	111		03/23/2021
Nitrite	mg/L	80-120	3.20		0.053	U	3	1	107		03/23/2021
Nitrate	mg/L	80-120	2.30		0.046	U	2.5	1	92		03/23/2021
Sulfate	mg/L	80-120	83.9	OR	73.1	OR	15	1	72	*	03/23/2021
Orthophosphate as P	mg/L	80-120	6.70		0.086	U	5	1	134	*	03/23/2021

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Matrix Spike Summary

Client: TRC Companies, Inc. **SDG No.:** M1770

Project: NYCDPR Bush Terminal LandFill Piers 1-4 **Sample ID:** M1770-10

Client ID: MW-106DMS **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Bromide	mg/L	80-120	22.0	J	2.70	U	10	20	220	*	03/24/2021
Chloride	mg/L	80-120	79.7		83.6	D	3	20	-130	*	03/24/2021
Fluoride	mg/L	80-120	3.00	J	1.40	U	2	20	150	*	03/24/2021
Nitrite	mg/L	80-120	6.40	J	1.10	U	3	20	213	*	03/24/2021
Nitrate	mg/L	80-120	7.70	J	6.10	J	2.5	20	64	*	03/24/2021
Sulfate	mg/L	80-120	37.1	J	25.5	J	15	20	77	*	03/24/2021
Orthophosphate as P	mg/L	80-120	1.70	U	1.70	U	5	20	0	*	03/24/2021

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Matrix Spike Summary

Client: TRC Companies, Inc. **SDG No.:** M1770

Project: NYCDPR Bush Terminal LandFill Piers 1-4 **Sample ID:** M1770-10

Client ID: MW-106DMSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Bromide	mg/L	80-120	21.5	J	2.70	U	10	20	215	*	03/24/2021
Chloride	mg/L	80-120	79.9		83.6	D	3	20	-123	*	03/24/2021
Fluoride	mg/L	80-120	2.30	J	1.40	U	2	20	115		03/24/2021
Nitrite	mg/L	80-120	6.30	J	1.10	U	3	20	210	*	03/24/2021
Nitrate	mg/L	80-120	7.50	J	6.10	J	2.5	20	56	*	03/24/2021
Sulfate	mg/L	80-120	36.7	J	25.5	J	15	20	75	*	03/24/2021
Orthophosphate as P	mg/L	80-120	1.70	U	1.70	U	5	20	9	*	03/24/2021

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Matrix Spike Summary

Client: TRC Companies, Inc.
SDG No.: M1770
Project: NYCDPR Bush Terminal LandFill Piers 1-4
Sample ID: M1770-24
Client ID: MW-107IMS
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Bromide	mg/L	80-120	11.5		0.68	U	10	5	115		03/25/2021
Chloride	mg/L	80-120	325	OR	341	OR	3	5	-533	*	03/25/2021
Fluoride	mg/L	80-120	2.60		0.35	U	2	5	130	*	03/25/2021
Nitrite	mg/L	80-120	3.20		0.27	U	3	5	107		03/25/2021
Nitrate	mg/L	80-120	9.80		8.20	D	2.5	5	64	*	03/25/2021
Sulfate	mg/L	80-120	79.6		70.1	D	15	5	63	*	03/25/2021
Orthophosphate as P	mg/L	80-120	5.50		0.43	U	5	5	110		03/25/2021

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Matrix Spike Summary

Client: TRC Companies, Inc. **SDG No.:** M1770

Project: NYCDPR Bush Terminal LandFill Piers 1-4 **Sample ID:** M1770-24

Client ID: MW-107IMSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Bromide	mg/L	80-120	11.5		0.68	U	10	5	115		03/25/2021
Chloride	mg/L	80-120	327	OR	341	OR	3	5	-467	*	03/25/2021
Fluoride	mg/L	80-120	2.40		0.35	U	2	5	120		03/25/2021
Nitrite	mg/L	80-120	3.30		0.27	U	3	5	110		03/25/2021
Nitrate	mg/L	80-120	10.0		8.20	D	2.5	5	72	*	03/25/2021
Sulfate	mg/L	80-120	79.6		70.1	D	15	5	63	*	03/25/2021
Orthophosphate as P	mg/L	80-120	6.60		0.43	U	5	5	132	*	03/25/2021

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Duplicate Sample Summary

Client: TRC Companies, Inc.
SDG No.: M1770
Project: NYCDPR Bush Terminal LandFill Piers 1-4
Sample ID: M1763-03
Client ID: EL-509-WATER-SAMPLEMSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifie	Duplicate Result	Conc. Qualifie	Dilution Factor	RPD/ AD	Qual	Analysis Date
Fluoride	mg/L	+/-20	2.60		2.60		1	0		03/26/2021
Nitrite	mg/L	+/-20	3.00		3.00		1	0		03/26/2021
Nitrate	mg/L	+/-20	6.50	OR	6.50	OR	1	0		03/26/2021
Sulfate	mg/L	+/-20	63.8	OR	63.8	OR	1	0		03/26/2021
Bromide	mg/L	+/-20	11.5		11.4		1	1		03/26/2021
Chloride	mg/L	+/-20	1000	OR	976	OR	1	2		03/26/2021
Orthophosphate as P	mg/L	+/-20	1.50		1.00		1	40	*	03/26/2021

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Duplicate Sample Summary

Client: TRC Companies, Inc.
SDG No.: M1770
Project: NYCDPR Bush Terminal LandFill Piers 1-4
Sample ID: M1770-03
Client ID: MW-106SMSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifie	Duplicate Result	Conc. Qualifie	Dilution Factor	RPD/ AD	Qual	Analysis Date
Fluoride	mg/L	+/-20	3.00		3.00		1	0		03/23/2021
Sulfate	mg/L	+/-20	84.1	OR	83.9	OR	1	0		03/23/2021
Chloride	mg/L	+/-20	703	OR	692	OR	1	2		03/23/2021
Bromide	mg/L	+/-20	11.0		10.7		1	3		03/23/2021
Nitrite	mg/L	+/-20	3.30		3.20		1	3		03/23/2021
Nitrate	mg/L	+/-20	2.40		2.30		1	4		03/23/2021
Orthophosphate as P	mg/L	+/-20	6.30		6.70		1	6		03/23/2021

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Duplicate Sample Summary

Client: TRC Companies, Inc.
SDG No.: M1770
Project: NYCDPR Bush Terminal LandFill Piers 1-4
Sample ID: M1770-10
Client ID: MW-106DMSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifie	Duplicate Result	Conc. Qualifie	Dilution Factor	RPD/ AD	Qual	Analysis Date
Chloride	mg/L	+/-20	79.7		79.9		20	0		03/24/2021
Sulfate	mg/L	+/-20	37.1	J	36.7	J	20	1		03/24/2021
Bromide	mg/L	+/-20	22.0	J	21.5	J	20	2		03/24/2021
Nitrite	mg/L	+/-20	6.40	J	6.30	J	20	2		03/24/2021
Nitrate	mg/L	+/-20	7.70	J	7.50	J	20	3		03/24/2021
Fluoride	mg/L	+/-20	3.00	J	2.30	J	20	26	*	03/24/2021
Orthophosphate as P	mg/L	+/-20	1.70	U	1.70	U	20	51	*	03/24/2021

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Duplicate Sample Summary

Client: TRC Companies, Inc.
SDG No.: M1770
Project: NYCDPR Bush Terminal LandFill Piers 1-4
Sample ID: M1770-24
Client ID: MW-107IMSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifie	Duplicate Result	Conc. Qualifie	Dilution Factor	RPD/ AD	Qual	Analysis Date
Bromide	mg/L	+/-20	11.5		11.5		5	0		03/25/2021
Sulfate	mg/L	+/-20	79.6		79.6		5	0		03/25/2021
Chloride	mg/L	+/-20	325	OR	327	OR	5	1		03/25/2021
Orthophosphate as P	mg/L	+/-20	5.50		6.60		5	18		03/25/2021
Nitrate	mg/L	+/-20	9.80		10.0		5	2		03/25/2021
Nitrite	mg/L	+/-20	3.20		3.30		5	3		03/25/2021
Fluoride	mg/L	+/-20	2.60		2.40		5	8		03/25/2021

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Laboratory Control Sample Summary

Client: TRC Companies, Inc. **SDG No.:** M1770

Project: NYCDPR Bush Terminal LandFill Piers 1-4 **Run No.:** LB113629

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB113629BSW								
Bromide	mg/L	10	9.50		95	1	90-110	03/23/2021
Chloride	mg/L	3	2.80		93	1	90-110	03/23/2021
Fluoride	mg/L	2	2.00		100	1	90-110	03/23/2021
Nitrite	mg/L	3	2.80		93	1	90-110	03/23/2021
Nitrate	mg/L	2.5	2.40		96	1	90-110	03/23/2021
Sulfate	mg/L	15	14.0		93	1	90-110	03/23/2021
Orthophosphate as P	mg/L	5	5.40		108	1	90-110	03/23/2021

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Laboratory Control Sample Summary

Client:	TRC Companies, Inc.	**SDG No.:**	M1770
Project:	NYCDPR Bush Terminal LandFill Piers 1-4	**Run No.:**	LB113629

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB113629BSW2								
Bromide	mg/L	10	9.30		93	1	90-110	03/24/2021
Chloride	mg/L	3	2.80		93	1	90-110	03/24/2021
Fluoride	mg/L	2	2.00		100	1	90-110	03/24/2021
Nitrite	mg/L	3	2.80		93	1	90-110	03/24/2021
Nitrate	mg/L	2.5	2.30		92	1	90-110	03/24/2021
Sulfate	mg/L	15	13.7		91	1	90-110	03/24/2021
Orthophosphate as P	mg/L	5	5.40		108	1	90-110	03/24/2021

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Laboratory Control Sample Summary

Client: TRC Companies, Inc. **SDG No.:** M1770

Project: NYCDPR Bush Terminal LandFill Piers 1-4 **Run No.:** LB113684

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB113684BSW								
Bromide	mg/L	10	9.40		94	1	90-110	03/25/2021
Chloride	mg/L	3	2.70		90	1	90-110	03/25/2021
Fluoride	mg/L	2	1.90		95	1	90-110	03/25/2021
Nitrite	mg/L	3	2.80		93	1	90-110	03/25/2021
Nitrate	mg/L	2.5	2.30		92	1	90-110	03/25/2021
Sulfate	mg/L	15	13.3		89	1	90-110	03/25/2021
Orthophosphate as P	mg/L	5	5.20		104	1	90-110	03/25/2021

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Laboratory Control Sample Summary

Client: TRC Companies, Inc. **SDG No.:** M1770

Project: NYCDPR Bush Terminal LandFill Piers 1-4 **Run No.:** LB113684

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB113684BSW2								
Bromide	mg/L	10	9.20		92	1	90-110	03/26/2021
Chloride	mg/L	3	2.80		93	1	90-110	03/26/2021
Fluoride	mg/L	2	2.00		100	1	90-110	03/26/2021
Nitrite	mg/L	3	2.80		93	1	90-110	03/26/2021
Nitrate	mg/L	2.5	2.30		92	1	90-110	03/26/2021
Sulfate	mg/L	15	13.6		91	1	90-110	03/26/2021
Orthophosphate as P	mg/L	5	5.30		106	1	90-110	03/26/2021

SHIPPING DOCUMENTS

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO.
QUOTE NO. M1770
COC Number 2028407

9
9.1

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: TRC Engineers, Inc.
ADDRESS: 71 Griffin Road
CITY Windsor, STATE: CT ZIP: 06095
ATTENTION: Jim Peronto
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Bush Terminal Park
PROJECT NO.: 435627 LOCATION: Brooklyn, NY
PROJECT MANAGER: Jim Peronto
e-mail: jperonto@trcompanies.com
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: PO#:
ADDRESS: SAME
CITY STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): STD DAYS*
EDD: _____ DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ Level 4 (QC + Full Raw Data)
- ☐ NJ Reduced
- ☐ US EPA CLP
- ☐ NYS ASP A
- ☒ NYS ASP B
- ☐ Other _____
- ☒ EDD FORMAT _____

ANALYSIS

1	2	3	4	5	6	7	8	9
TCL VOCs	TCL SVOCs	TAL Metals	Total Chloride					

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES A 1	E 2	B 3	E 4	5	6	7	8	9	COMMENTS
1.	TB-03222021	AQ	-	-	3/22/21	11:00	2	X									← Specify Preservatives A-HCl D-NaOH B-HN03 E-ICE C-H2SO4 F-OTHER
2.	MW-106 I	GW		X	3/22/21	12:15	5	X	X	X	X						
3.	MW-106 S	GW		X	3/22/21	13:30	5	X	X	X	X						
4.	MW-106 S MS	GW		X	3/22/21	13:35	5	X	X	X	X						
5.	MW-106 S MSD	GW		X	3/22/21	13:40	5	X	X	X	X						
6.	MW-105 D	GW		X	3/22/21	13:13	5	X	X	X	X						
7.	MW-105 I	GW		X	3/22/21	15:30	5	X	X	X	X						
8.	MW-105 S	GW		X	3/22/21	15:45	5	X	X	X	X						
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	3/22/21 16:00	1. 1632 3-22-21
2.		2.
3.	3-22-21 1900	3. SC

Conditions of bottles or coolers at receipt: ☒ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.9°C °C
Comments: All samples should be on one report! ☒ BATCH ALL SAMPLES
NYSDEC ASP CAT B
NYS Part 375

Page 1 of 1

CLIENT: ☐ Hand Delivered ☐ Other _____
CHEMTECH: ☒ Picked Up ☐ Field Sampling

Shipment Complete ☐ YES ☐ NO

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. M1770
QUOTE NO. ~~M1790~~
COC Number 2028408

9
9.1

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: TRC Engineers, Inc.
ADDRESS: 71 Griffin Road
CITY Windsor STATE: CT ZIP: 06095
ATTENTION: Jim Peronto
PHONE: 860-298-6233 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Bush Terminal Park
PROJECT NO.: 435627 LOCATION: Brooklyn
PROJECT MANAGER: Jim Peronto
e-mail: jperonto@trcompanies.com
PHONE: 860-298-6233 FAX:

CLIENT BILLING INFORMATION

BILL TO: / PO#:
ADDRESS: SAME
CITY STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): STD DAYS*
EDD: _____ DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☒ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ Level 4 (QC + Full Raw Data)
- ☐ NJ Reduced
- ☐ NYS ASP A
- ☒ NYS ASP B
- ☐ US EPA CLP
- ☐ Other _____
- ☐ EDD FORMAT _____

ANALYSIS

1 TCL VOCs
2 TCL SVOCs
3 TAL Metals
4 Chloride (Total)
5
6
7
8
9

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES A 1	E 2	B 3	E 4	5	6	7	8	9	COMMENTS
1.	TB-03232021	AQ	—	—	3/23/21	9:00	2	X									
2.	MW-106 D	GW		X	3/23/21	9:40	5	X	X	X	X						
3.	MW-104 D	GW		X	3/23/21	10:05	5	X	X	X	X						
4.	MW-104 I	GW		X	3/23/21	9:55	5	X	X	X	X						
5.	MW-103 D	GW		X	3/23/21	11:50	5	X	X	X	X						
6.	MW-103 I	GW		X	3/23/21	13:30	5	X	X	X	X						
7.	MW-101 S	GW		X	3/23/21	15:50	5	X	X	X	X						
8.	MW-101 I	GW		X	3/23/21	12:30	5	X	X	X	X						
9.	MW-101 D	GW		X	3/23/21	13:50	5	X	X	X	X						
10.	FB-03232021	AQ	—	—	3/23/21	14:45	5	X	X	X	X						

PRESERVATIVES: A-HCl B-HN03 C-H2SO4 D-NaOH E-ICE F-OTHER

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	3/23/21 17:00	1. 1700 3-23-21
2.		2.
3.	3-23-21 1800	3. SC

Conditions of bottles or coolers at receipt: ☒ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 2.9 °C
Comments: BATCH ALL SAMPLES ON ONE REPORT!
NYSDEC ASP CAT B
NYSDEC Part 375

Page ____ of ____
CLIENT: ☐ Hand Delivered ☐ Other _____
CHEMTECH: ☒ Picked Up ☐ Field Sampling
Shipment Complete ☒ YES ☐ NO

M1770

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO.
QUOTE NO. M1770
COC Number 2028409

9
9.1

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: TRC Engineers, Inc.
ADDRESS: 71 Griffin Road
CITY Windsor STATE: CT ZIP: 06095
ATTENTION: Jim Peronto
PHONE: 860-298-6233 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Bush Terminal
PROJECT NO.: 435627 LOCATION: Brooklyn, NY
PROJECT MANAGER: Jim Peronto
e-mail: jperonto@trcompanies.com
PHONE: 860-298-6233 FAX:

CLIENT BILLING INFORMATION

BILL TO: PO#:
ADDRESS: SAME
CITY STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) DAYS*
HARDCOPY (DATA PACKAGE): STD DAYS*
EDD: DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ Level 4 (QC + Full Raw Data)
- ☐ NJ Reduced
- ☐ US EPA CLP
- ☐ NYS ASP A
- ☒ NYS ASP B
- ☐ Other
- ☐ EDD FORMAT

ANALYSIS

1 TCL VOCs; 2 TCL SVOCs; 3 TAL Metals; 4 Total Chloride; 5 6 7 8 9

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1 (A)	2 (E)	3 (B)	4 (E)	5	6	7	8	9
1.	TB-03242021	AQ	—	—	3/24/21	—	2	X								
2.	MW-103S	GW		X	3/24/21	11:30	5	X	X	X	X					
3.	MW-102D	GW		X	3/24/21	11:30	5	X	X	X	X					
4.	MW-102S	GW		X	3/24/21	13:55	5	X	X	X	X					
5.	MW-102I	GW		X	3/24/21	13:40	5	X	X	X	X					
6.	MW-107I	GW		X	3/24/21	13:45	5	X	X	X	X					
7.																
8.																
9.																
10.																

PRESERVATIVES

← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

COMMENTS

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

	DATE/TIME	RECEIVED BY
1. RELINQUISHED BY SAMPLER:	3/24/21 1546	1. 1549 3-24-21
2. RELINQUISHED BY SAMPLER:	DATE/TIME:	2. RECEIVED BY:
3. RELINQUISHED BY SAMPLER:	DATE/TIME: 1717 3-24-21	3. RECEIVED BY: SC

Conditions of bottles or coolers at receipt: ☒ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.9 °C
Comments: BATCH ALL SAMPLES ON ONE REPORT
NYSDEC CAT B
NYSDEC Part 375

Page 1 of 1

CLIENT: ☐ Hand Delivered ☐ Other
CHEMTECH: ☒ Picked Up ☐ Field Sampling

Shipment Complete ☐ YES ☐ NO

From: Steven Chaimowitz <S.Chaim@chemtech.net>
Sent: Wednesday, March 24, 2021 11:48 AM
To: 'Peronto, Jim'; CHEMTECH-Login@chemtech.net; Samantha@chemtech.net
Cc: 'Chalmers, Aine'
Subject: RE: [EXTERNAL] Login Summary Details For Project NYCDPR Bush Terminal LandFill Piers 1-4-M1790.

Hi Jim,
We will batch all samples in SDG M1770. Thanks!

Regards,

Steven Chaimowitz
Project Manager

CHEMTECH

284 Sheffield St. | Mountainside, NJ 07092
Direct: (908) 728-3147
s.chaim@chemtech.net | www.chemtech.net

Your Opinion Matters! Please Give Us Your Feedback

CHEMTECH is an equal opportunity employer

Notice: The information transmitted in this e-mail message and in any attachments is intended solely for the attention and use of the named addressee(s) and may contain confidential and/or privileged material. Any review, retransmission, dissemination or other use of, or taking of any action in reliance upon this information by persons or entities other than the intended recipient is strictly prohibited and may be unlawful. If you have received this transmission in error, please notify us immediately by return e-mail, and permanently delete this transmission, including attachments if any, from any computer.

From: Peronto, Jim [mailto:JPeronto@trccompanies.com]
Sent: Wednesday, March 24, 2021 11:27 AM
To: CHEMTECH-Login@chemtech.net; Samantha@chemtech.net
Cc: Chalmers, Aine <AChalmers@trccompanies.com>
Subject: RE: [EXTERNAL] Login Summary Details For Project NYCDPR Bush Terminal LandFill Piers 1-4-M1790.

Hi Samantha,

As indicated on the TRC COCs, please be sure to batch all of the samples received on this project into ONE batch for our data validation.

This includes the samples on the two attached login summary reports as well as the samples being picked up today from the project site.

Thanks, Jim

Jim Peronto
TRC
860-298-6233

From: CHEMTECH-Login@chemtech.net <CHEMTECH-Login@chemtech.net>
Sent: Wednesday, March 24, 2021 10:16 AM
To: Warren, Daniel <DWarren@trccompanies.com>; ggatta@trccompanies.com; Peronto, Jim <JPeronto@trccompanies.com>; jraup@trccompanies.com; Morin, Kristen <KMorin@trccompanies.com>; LKrowitz@trccompanies.com; O'Hara, Lindsay <LOHara@trccompanies.com>; O'Hara, Lindsay <LOHara@trccompanies.com>; Zhou, Ping <PZhou@trccompanies.com>
Cc: Samantha@chemtech.net
Subject: [EXTERNAL] Login Summary Details For Project NYCDPR Bush Terminal LandFill Piers 1-4-M1790.

This is an **EXTERNAL** email. Do not click links or open attachments unless you validate the sender and know the content is safe.

To James Peronto, P.e., Leed Ap;

Please see the attached Login Summary for the following project, or download the file using your login credentials from the link below.

Order ID	: M1790
Project ID	: NYCDPR Bush Terminal LandFill Piers 1-4
Download File	: https://client.chemtech.net
Order Date	: 3/24/2021 9:26:00 AM
CHEMTECH's Project Manager	: Samantha Beazley , Samantha@chemtech.net , Ext :
CHEMTECH's Sales Executive	: Kurt Hummler , khummler@chemtech.net , 908-728-3143 Ext :3143

Thank you for the opportunity to provide you with our services. For any questions please feel free to contact your project manager.

Click Here for our short online customer Survey http://chemtech.net/ClientSurvey.aspx .

Thank you,

CHEMTECH

Notice: The information transmitted in this e-mail message and in any attachments is intended Solely for the attention of the named addressee(s) and may contain confidential and/or privileged material. Any review, retransmission, dissemination or other use of, or taking of any action in reliance upon, this information by persons or entities other than the intended recipient is strictly prohibited and may be unlawful. If you have received this transmission in error, please notify us immediately by return e-mail, and permanently delete this transmission, including attachments if any, from any computer.

From: Peronto, Jim <JPeronto@trccompanies.com>
Sent: Tuesday, March 30, 2021 3:56 PM
To: CHEMTECH-Login@chemtech.net; Samantha@chemtech.net
Cc: Chalmers, Aine
Subject: RE: [EXTERNAL] Login Summary Details For Project NYCDPR Bush Terminal LandFill Piers 1-4-M1790.

Samantha,

Please do NOT report TICs with this sample data. TICs were inappropriately reported with the 2019 data.

Thanks, Jim

Jim Peronto
TRC
860-298-6233

From: Peronto, Jim
Sent: Wednesday, March 24, 2021 10:27 AM
To: CHEMTECH-Login@chemtech.net; Samantha@chemtech.net
Cc: Chalmers, Aine <AChalmers@trccompanies.com>
Subject: RE: [EXTERNAL] Login Summary Details For Project NYCDPR Bush Terminal LandFill Piers 1-4-M1790.

Hi Samantha,

As indicated on the TRC COCs, please be sure to batch all of the samples received on this project into ONE batch for our data validation.

This includes the samples on the two attached login summary reports as well as the samples being picked up today from the project site.

Thanks, Jim

Jim Peronto
TRC
860-298-6233

From: CHEMTECH-Login@chemtech.net <CHEMTECH-Login@chemtech.net>
Sent: Wednesday, March 24, 2021 10:16 AM
To: Warren, Daniel <DWarren@trccompanies.com>; ggatta@trccompanies.com; Peronto, Jim <JPeronto@trccompanies.com>; jraup@trccompanies.com; Morin, Kristen <KMorin@trccompanies.com>; LKrowitz@trccompanies.com; O'Hara, Lindsay <LOHara@trccompanies.com>; O'Hara, Lindsay <LOHara@trccompanies.com>; Zhou, Ping <PZhou@trccompanies.com>
Cc: Samantha@chemtech.net
Subject: [EXTERNAL] Login Summary Details For Project NYCDPR Bush Terminal LandFill Piers 1-4-M1790.

This is an **EXTERNAL** email. Do not click links or open attachments unless you validate the sender and know the content is safe.

To James Peronto, P.e., Leed Ap;

Please see the attached Login Summary for the following project, or download the file using your login credentials from the link below.

Order ID	: M1790
Project ID	: NYCDPR Bush Terminal LandFill Piers 1-4
Download File	: https://client.chemtech.net
Order Date	: 3/24/2021 9:26:00 AM
CHEMTECH's Project Manager	: Samantha Beazley , Samantha@chemtech.net , Ext :
CHEMTECH's Sales Executive	: Kurt Hummler , khummler@chemtech.net , 908-728-3143 Ext :3143

Thank you for the opportunity to provide you with our services. For any questions please feel free to contact your project manager.

Click Here for our short online customer Survey http://chemtech.net/ClientSurvey.aspx .

Thank you,

CHEMTECH

Notice: The information transmitted in this e-mail message and in any attachments is intended Solely for the attention of the named addressee(s) and may contain confidential and/or privileged material. Any review, retransmission, dissemination or other use of, or taking of any action in reliance upon, this information by persons or entities other than the intended recipient is strictly prohibited and may be unlawful. If you have received this transmission in error, please notify us immediately by return e-mail, and permanently delete this transmission, including attachments if any, from any computer.

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	EP-W-14-030
Connecticut	PH-0649
DOD ELAP (L-A-B)	L2219
Maine	2020021
Maryland	296
New Hampshire	255420
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	P330-18-00132
Texas	T104704488-20-13

CHEMTECH

LOGIN REPORT/SAMPLE TRANSFER

Order ID : M1770 TRCE03
Client Name : TRC Companies, Inc.
Client Contact : James Peronto, P.E., LEED
Invoice Name : TRC Companies, Inc.
Invoice Contact : James Peronto, P.E., LEED

Order Date : 3/22/2021 4:40:20 PM
Project Name : NYCDPR Bush Terminal L
Receive DateTime : 3/22/2021 7:00:00 PM
Purchase Order :

Project Mgr :
Report Type : NYS ASP B
EDD Type : NYSDEC EDD V-3
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
M1770-01	TB-03222021	Water	03/22/2021	11:00					
					VOCMS Group1		8260-Low		10 Bus. Days
M1770-02	MW-106I	Water	03/22/2021	12:15					
					VOCMS Group1		8260-Low		10 Bus. Days
M1770-03	MW-106S	Water	03/22/2021	13:30					
					VOCMS Group1		8260-Low		10 Bus. Days
M1770-04	M1770-03MS	Water	03/22/2021	13:35					
					VOCMS Group1		8260-Low		10 Bus. Days
M1770-05	M1770-03MSD	Water	03/22/2021	13:40					
					VOCMS Group1		8260-Low		10 Bus. Days
M1770-06	MW-105D	Water	03/22/2021	13:18					
					VOCMS Group1		8260-Low		10 Bus. Days
M1770-07	MW-105I	Water	03/22/2021	15:30					
					VOCMS Group1		8260-Low		10 Bus. Days
M1770-08	MW-105S	Water	03/22/2021	15:45					
					VOCMS Group1		8260-Low		10 Bus. Days

CHEMTECH

LOGIN REPORT/SAMPLE TRANSFER

Order ID :	M1770 TRCE03	**Order Date :**	3/22/2021 4:40:20 PM	**Project Mgr :**	
Client Name :	TRC Companies, Inc.	**Project Name :**	NYCDPR Bush Terminal L.	**Report Type :**	NYS ASP B
Client Contact :	James Peronto, P.E., LEED	**Receive DateTime :**	3/22/2021 7:00:00 PM	**EDD Type :**	NYSDEC EDD V-3
Invoice Name :	TRC Companies, Inc.	**Purchase Order :**		**Hard Copy Date :**	
Invoice Contact :	James Peronto, P.E., LEED			**Date Signoff :**	

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES

Relinguished By : CP
Date / Time : 3-23-21 9:35

Received By :
Date / Time : 3.23.21 9:35

Storage Area : VOA Refridgerator Room

CHEMTECH

LOGIN REPORT/SAMPLE TRANSFER

Order ID : M1770 TRCE03
Client Name : TRC Companies, Inc.
Client Contact : James Peronto, P.E., LEED
Invoice Name : TRC Companies, Inc.
Invoice Contact : James Peronto, P.E., LEED

Order Date : 3/22/2021 4:40:20 PM
Project Name : NYCDPR Bush Terminal L
Receive DateTime : 3/23/2021 6:00:00 PM
Purchase Order :

Project Mgr : Tyler
Report Type : NYS ASP B
EDD Type : NYSDEC EDD V-3
Hard Copy Date :
Date Signoff : 3/23/2021 10:01:07 AM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
M1770-09	TB-03232021	Water	03/23/2021	09:00					
					VOCMS Group1		8260-Low		10 Bus. Days
M1770-10	MW-106D	Water	03/23/2021	09:40					
					VOCMS Group1		8260-Low		10 Bus. Days
M1770-11	MW-104D	Water	03/23/2021	10:05					
					VOCMS Group1		8260-Low		10 Bus. Days
M1770-12	MW-104I	Water	03/23/2021	09:55					
					VOCMS Group1		8260-Low		10 Bus. Days
M1770-13	MW-103D	Water	03/23/2021	11:50					
					VOCMS Group1		8260-Low		10 Bus. Days
M1770-14	MW-103I	Water	03/23/2021	13:30					
					VOCMS Group1		8260-Low		10 Bus. Days
M1770-16	MW-101I	Water	03/23/2021	12:30					
					VOCMS Group1		8260-Low		10 Bus. Days
M1770-17	MW-101D	Water	03/23/2021	13:50					
					VOCMS Group1		8260-Low		10 Bus. Days
M1770-18	FB-03232021	Water	03/23/2021	14:45					

CHEMTECH

LOGIN REPORT/SAMPLE TRANSFER

Order ID : M1770 TRCE03
Client Name : TRC Companies, Inc.
Client Contact : James Peronto, P.E., LEED
Invoice Name : TRC Companies, Inc.
Invoice Contact : James Peronto, P.E., LEED

Order Date : 3/22/2021 4:40:20 PM
Project Name : NYCDPR Bush Terminal L
Receive DateTime : 3/23/2021 6:00:00 PM
Purchase Order :

Project Mgr : Tyler
Report Type : NYS ASP B
EDD Type : NYSDEC EDD V-3
Hard Copy Date :
Date Signoff : 3/23/2021 10:01:07 AM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
					VOCMS Group1		8260-Low		10 Bus. Days

Relinguished By : [signature]
Date / Time : 3-24-21 14:15

Received By : [signature]
Date / Time : 3-24-21 14:15

Storage Area : VOA Refridgerator Room

CHEMTECH

LOGIN REPORT/SAMPLE TRANSFER

Order ID :	M1770 TRCE03	**Order Date :**	3/22/2021 4:40:20 PM	**Project Mgr :**	Tyler
Client Name :	TRC Companies, Inc.	**Project Name :**	NYCDPR Bush Terminal L	**Report Type :**	NYS ASP B
Client Contact :	James Peronto, P.E., LEED	**Receive DateTime :**	3/24/2021 5:12:00 PM	**EDD Type :**	NYSDEC EDD V-3
Invoice Name :	TRC Companies, Inc.	**Purchase Order :**		**Hard Copy Date :**	
Invoice Contact :	James Peronto, P.E., LEED			**Date Signoff :**	3/23/2021 10:01:07 AM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
M1770-19	TB-03242021	Water	03/24/2021	00:00					
					VOCMS Group1		8260-Low		10 Bus. Days
M1770-20	MW-103S	Water	03/24/2021	11:30					
					VOCMS Group1		8260-Low		10 Bus. Days
M1770-21	MW-102D	Water	03/24/2021	11:30					
					VOCMS Group1		8260-Low		10 Bus. Days
M1770-22	MW-102S	Water	03/24/2021	13:55					
					VOCMS Group1		8260-Low		10 Bus. Days
M1770-23	MW-102I	Water	03/24/2021	13:40					
					VOCMS Group1		8260-Low		10 Bus. Days
M1770-24	MW-107I	Water	03/24/2021	13:45					
					VOCMS Group1		8260-Low		10 Bus. Days

Relinquished By : _____

Date / Time : 3-25-21 9:30

Received By : _____

Date / Time : 3.25.21 9:30

Storage Area : **VOA Refridgerator Room** Stored in VOA-Ref-#4