Long Island Rail Road

March 27, 2013

Mr. Raphael Ketani, CPG
New York State Department of Environmental Conservation
Region 2 Division of Environmental Remediation
47-40 21st Street, Long Island City, NY 11101-5407
Long Island City, NY 11101-5407

Re: Supplemental Investigation Letter Report
Richmond Hill Yard
189-02 89th Avenue
Richmond Hill, New York 11418
NYSDEC Spill Case No. 89-08760

Dear Mr. Ketani:

This Supplemental Investigation Letter Report (the "Report") documents the soil boring and groundwater monitoring well installation and sampling activities performed in accordance with the *Richmond Hill Yard Supplemental Investigation Work Plan for Petroleum Spill Nos. 89-08760 and 09-08574*, prepared by TRC Engineers, Inc. (TRC), dated March 2011 (the "Work Plan"). The Work Plan was approved by the New York State Department of Environmental Conservation (NYSDEC) in a letter, presented in Attachment A, dated May 4, 2012. The Report documents investigation activities performed in connection with NYSDEC Spill Case No. 89-08760, assigned to the Metropolitan Transportation Authority (MTA) Long Island Rail Road (LIRR) Richmond Hill Yard (the "Site"), located at 189-02 89th Avenue in Richmond Hill, New York. The Site location is shown in the attached Figure 1. The area of investigation, which is the Former East Fueling Yard, and nearby structures are shown in Figure 2.

As requested by NYSDEC in a meeting on February 14, 2013, this letter report has been prepared in lieu of a Remedial Investigation Report, as specified in the Work Plan. Investigation activities performed in connection with the investigation of NYSDEC Spill Case No. 09-08574 will be documented in a separate report.

Site Description

The Site is located in the Richmond Hill section of Queens, New York, bordered by 89th and 91st Avenues to the north, the LIRR Morris Park Yard to the south and west, and 126th and 132nd Streets to the east. The primary uses of the Site are inspection, maintenance, fueling, and storage of diesel train locomotives. The Site is an active LIRR operations area which encompasses a complex arrangement of tightly spaced tracks, buried utilities and other railroad infrastructure. The Former East Fueling Yard is located south of the Sheridan Shop. As described in the Work Plan, several petroleum spills have occurred at the Site, including in the Former East Fueling Yard, and remain active on the NYSDEC spill database. These spill cases have been consolidated into NYSDEC Spill Case No. 89-08760.

Site Geology and Hydrogeology

Based on the results of investigations performed by TRC on the adjacent LIRR Morris Park Yard, the upper glacial deposits at the Site consist of outwash gravels, sands and silty sands extending from land surface to the Gardiners Clay. Groundwater in the unconsolidated glacial deposits at the Site (the

"Unconsolidated Upper Aquifer") is encountered at approximately 40 to 50 feet below ground surface (bgs), and local groundwater flow direction is predominantly to the southwest, towards Jamaica Bay.

The Gardiners Clay underlying the Unconsolidated Upper Aquifer consists of greenish-gray clays and silts, with some interbedded sands, and represents a confining layer. The Gardiners Clay at the Site is generally encountered at about 140 to 160 feet bgs.

Remedial History

In 1997 STV Incorporated of New York ("STV") performed a subsurface soil investigation south of the Sheridan Shop in the Storage Yard as part of planning for the construction of an addition to the shop. As documented in the memo titled *Richmond Hill Storage Yard – UST Removal*, dated April 10, 1995, approximately 1,180 tons of petroleum-impacted material were excavated from the Storage Yard during construction activities and disposed of off-Site. In 2007 Gannet Fleming conducted a subsurface soil and groundwater investigation, which included the advancement of soil borings and installation of groundwater monitoring wells, in the Block End of the Storage Yard and an area south of the McGurl Building. As documented in the memo titled *PN-39 Richmond Hill/Morris Park Improvements – CR-04 Removal of Contaminated Soil – Back-Up Information*, dated March 8, 2007, approximately 4,200 tons of petroleum-impacted material were excavated in the vicinity of the McGurl Building, during the construction of a retaining wall, and disposed of off-Site. In 2009 LIRR conducted a subsurface soil and groundwater investigation, which included the advancement of soil borings and installation of groundwater monitoring wells in the vicinity of the McGurl Building. As documented in the report titled *Phase I Supplemental Investigation of Petroleum Contamination at the Richmond Hill and Morris Park Facilities*, dated June 2, 2009, petroleum-related compounds were not detected in soil samples at concentrations greater than applicable criteria. Buildings and the locations of existing groundwater monitoring wells are presented on Figure 2. A more detailed summary of Site remedial history, including investigation and remedial efforts associated with other NYSDEC Spill Case Nos., is presented in the Work Plan.

As described in the Work Plan, previous investigations could not be completed, due to the presence of unidentified subsurface obstacles, in the Former East Fueling Yard. Therefore, additional investigation of soil and groundwater in the Former East Fueling Yard was required to delineate impacts related to petroleum releases associated with NYSDEC Spill Case No. 89-08760. The planned scope of the Supplemental Investigation, as described in the Work Plan, consisted of the advancement of two (2) soil borings, installation of monitoring wells in the boreholes, and collection of soil and groundwater samples for laboratory analysis.

Supplemental Investigation for NYSDEC Spill Case No. 89-08760

TRC supervised the completion of utility locating and soil boring and monitoring well installation activities on July 12, September 11, 12 and 25, 2012. Photographs documenting the soil boring and monitoring well installations are presented in Attachment B. Hager-Richter Geoscinces, Inc. (Hager-Richter) was retained by TRC for utility locating services. Aquifer Drilling & Testing, Inc. (ADT) of Mineola, NY was retained by TRC as a drilling subcontractor. Site conditions and boring locations are shown on Figure 2 and 3.

Soil Sampling

On July 12, 2012, the utility locating survey was performed in the vicinity of soil boring and monitoring well locations MW-38S and MW-39S (between Tracks 6 and 7, shown on Figure 3). Groundwater monitoring well MW-38S was located in the concrete area between Tracks 6 and 7 (due to space restrictions). The effectiveness of the geophysical survey equipment was limited in this area, and other concrete areas, due to heavy steel rebar reinforcement. In addition, visual inspection of the concrete area between Tracks 6 and 7 revealed an underground drainage pipe located approximately eight (8) feet below top of concrete. Groundwater monitoring well MW-39S was located in an asphalt paved area.

On September 11, 2012, in order to advance soil borings, Tracks 6 and 7 were temporarily taken out of service by the Richmond Hill Yard Station Master. ADT attempted, utilizing a jackhammer and a 10-inch diameter diamond-tipped concrete core, to remove the concrete at monitoring well location MW-38S. One-quarter-inch diameter rebar (oriented both vertically and horizontally in the concrete) was encountered at approximately two (2) inches below the top of the concrete. Therefore, MW-38S was re-located to an asphalt covered location approximately 40 feet southwest of the original location.

ADT removed the overlying asphalt via jackhammer and hand-cleared the second attempted location to a depth of 2.5 feet below ground surface (bgs) before encountering an unidentified underground obstruction. The same obstruction was encountered at the same depth approximately five (5) feet further southwest between the gauge of Track 7 during a third attempt to hand-clear the boring for MW-38S. ADT then returned to and attempted to core the concrete at the original location. However, after approximately 3.5 hours the coring was advanced only 28 inches and ADT was directed to halt coring activities and proceed to hand-clear soil boring location MW-39S. ADT was able to remove the overlying asphalt via jackhammer at soil boring location MW-39S and hand-cleared the soil boring to approximately five (5) feet bgs.

On September 12, 2012, Tracks 6 and 7 were again temporarily taken out of service and soil boring MW-39S was advanced to total depth of 53 feet bgs via hollow stem augers. Groundwater was encountered at approximately 49 feet bgs. Soil samples were continuously collected utilizing a split spoon sampler. The characteristics of each soil sample were logged and each soil sample was screened for VOCs with a PID by TRC's field geologist. Soils primarily consisted of coarse silty sands and gravel. Elevated PID measurements were recorded at depth intervals of nine (9) to 13 feet and 21 to 31 feet bgs. The maximum PID measurement [148 parts per million (ppm)] was recorded from the soil sample collected from 25 to 27 feet bgs. Petroleum odors were detected in soil samples collected from 21 to 31 feet bgs. Neither staining nor free product were observed in any soil samples collected. A soil boring log is presented in Attachment C.

Discrete soil samples were collected and submitted for laboratory analysis, in accordance with the Work Plan. As indicated above, the interval 25 to 27 feet bgs exhibited the greatest indications of petroleum impacts and soil sample MW-39S (25-27) was submitted for laboratory analysis. Soil sample MW-39S (47-49), collected directly above the groundwater table from 47 to 49 feet bgs, was also submitted for laboratory analysis. One (1) equipment blank and one (1) duplicate sample were collected and submitted to the laboratory for quality control purposes. In addition, a trip blank provided by the laboratory was analyzed. The samples were containerized in accordance with applicable protocols. Each container was properly labeled, preserved, and placed in a cooler for transport to Chemtech Consulting Group, Inc. (Chemtech) of Mountainside, New Jersey. Chemtech is a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP)-certified analytical laboratory.

Standard chain-of-custody procedures were followed. Samples were analyzed for VOCs and semi-volatile organic compounds (SVOCs) listed in Table 3 of Commissioner Policy-51 (CP-51).

On September 25, 2012, ADT resumed coring with a 10-inch diameter core bit at soil boring location MW-38S and installed a groundwater monitoring well at soil boring location MW-39S. After approximately 6.5 hours the core was advanced to approximately 16 inches below the top of concrete and it was concluded that a soil boring could not be installed at or near location MW-38S. As a result, the planned collection of subsurface soil samples at this location, including planned matrix spike (MS) and matrix spike duplicate (MSD) soil samples, could not be performed.

Monitoring Well Installation

As indicated above, on September 25, 2012, groundwater monitoring well MW-39S was installed via hollow stem auger at the location of soil boring MW-39S to a depth of approximately 66.75 feet bgs. MW-39S was constructed with four (4)-inch diameter flush threaded Schedule 40 polyvinyl chloride (PVC) well casing (45 feet) and 10-slot well screen (21.75 feet). Clean silica sand, Morie No. 1, was placed in the annular space to an elevation approximately three (3) feet above the top of the well screen. Concrete/bentonite grout was installed above the sand and the well installation was finished with a flush-mount stainless steel protective covering. A well construction diagram for MW-39S is provided in Attachment D.

Following installation, on October 4, 2012, groundwater monitoring well MW-39S was developed using a submersible pump. Groundwater quality indicator parameters [pH, conductivity, temperature, dissolved oxygen and oxidation-reduction potential (ORP)] were monitored using a Horiba U-52 water quality meter equipped with a flow-through cell. MW-39S was developed until at least three (3) well volumes were purged and the water was reasonably free of turbidity. At the completion of development, turbidity was less than fifty nephelometric turbidity units (NTUs). Approximately 55 gallons of groundwater were purged during development activities. Purged groundwater was containerized in a 55-gallon drum and staged at the adjacent LIRR Morris Park Yard. The groundwater monitoring well development log is presented in Attachment E.

Groundwater Sampling

On December 12, 2012, TRC collected a groundwater sample, following USEPA procedures described in *Groundwater Sampling Procedure Low Stress (Low Flow) Purging and Sampling* (USEPA, January 2010), from monitoring well MW-39S. Sampling of MW-39S was performed in conjunction with the December 2012 quarterly sampling event at the Site.

Prior to sampling the "head space" in the well was screened using a PID and the depth to water was measured with an electronic oil/water interface probe. The "head-space" reading was 0.4 ppm. Non-aqueous phase liquid (NAPL) was not detected. Groundwater was purged from monitoring well MW-39S utilizing a dedicated bladder pump and groundwater quality indicator parameters were monitored using a Horiba U-52 water quality meter equipped with a flow-through cell. Groundwater was purged until indicator parameters stabilized. Purged groundwater did not exhibit a visible sheen or petroleum odors. Purged groundwater was containerized in a 55-gallon drum and staged at the adjacent LIRR Morris Park Yard. The groundwater sampling log is presented in Attachment F.

A groundwater sample was collected immediately after purging in accordance with the USEPA protocol. Groundwater was allowed to flow directly from the Teflon-lined tubing into pre-cleaned laboratory-supplied sample glassware. One (1) equipment blank, one (1) matrix spike, one (1) matrix spike duplicate, and one (1) duplicate sample were collected for quality control purposes during the quarterly sampling event. In addition, a trip blank was provided by the laboratory. Each container was properly labeled, preserved, and placed in a cooler for transport to Chemtech. Standard chain-of-custody procedures were followed.

The groundwater collected from MW-39S was analyzed for Target Compound List (TCL) VOCs by USEPA Method 8260 and TCL SVOCs by Method 8270. The groundwater was also analyzed for iron and manganese by Method 6010.

Results of Analyses

The results of analyses of soil samples were presented in *MTA Long Island Rail Road Richmond Hill Yard (Spill# 89-08760) Progress Report #24*, dated September 2012. In Progress Report #24, results of analyses of the soil samples are compared to Soil Cleanup Levels (SCLs) listed in Table 3 of NYSDEC CP-51. The results of analyses of groundwater samples were presented in *MTA Long Island Rail Road Richmond Hill Yard (Spill# 89-08760) Progress Report #25*, dated December 2012. In Progress Report #25, results of analyses of the groundwater samples are compared to New York State Groundwater Water Quality Standards and Guidance Values ("Class GA Values") in the NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1, "Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations".

Soil Sampling

Results of analyses of soil samples collected from soil boring MW-39S indicate that VOCs and SVOCs were not detected at concentrations greater than SCLs listed in NYSDEC CP-51. Results of analyses of soil samples are summarized in Table 1 and Table 2. The laboratory analytical package is presented in Attachment G.

Groundwater Sampling

Results of analyses of the groundwater sample collected from monitoring well MW-39S indicate that the only VOC detected at a concentration greater than the Class GA Value was tetrachloroethene (PCE). PCE was detected in the groundwater and duplicate groundwater sample collected from monitoring well MW-39S at a concentration of 37 ug/L, exceeding the Class GA Value of 5 ug/L. SVOCs were not detected in the groundwater sample collected from monitoring well MW-39S. Results of analyses of groundwater samples (including results of analyses of other groundwater samples collected during the December 2012 quarterly sampling event) are summarized in Tables 3, 4 and 5. The laboratory analytical package is presented in Attachment G. Figure 4 presents the results of analyses of groundwater samples collected during the December 2012 quarterly sampling event that exceed Class GA Values. Figure 5 presents groundwater surface elevation contours.

Conclusions and Recommendations

Results of analyses indicate petroleum-related compounds were not detected at concentrations greater than the SCLs in soil samples collected from soil boring MW-39S. Results of analyses also indicate petroleum-related compounds were not detected in the groundwater sample collected from monitoring well MW-39S. However, PCE was detected at a concentration greater than the Class GA Value in the groundwater sample collected from monitoring well MW-39S. Chlorinated VOCs, including PCE, have historically been detected at concentrations greater than Class GA Values in off-Site wells upgradient and cross-gradient of MW-39S. As documented in *Remedial Investigation Report – Morris Park Yard*, prepared by TRC, dated March 2009 (the "RI Report"), several potential sources of chlorinated VOCs are located upgradient of MW-39S. Attachment H presents Figure 14 from the RI Report indicating potential chlorinated VOC sources located hydraulically upgradient. As such, and considering PCE impacts to groundwater are separate from NYSDEC Spill Case No. 89-08760, LIRR seeks NYSDEC approval for no further action (i.e., no additional remedial investigation) in the East Fueling Yard in connection with NYSDEC Spill Case No. 89-08670. Surveying of the horizontal location of MW-39S, and vertical elevations of the inner casing and adjacent ground surface, will be completed. Furthermore, monitoring well MW-39S will be included in the LIRR Richmond Hill Yard groundwater monitoring well network.

Please do not hesitate to contact me at 718-558-3826 if you have any questions or require additional information.

Sincerely,

Maria T. Hall

Maria T. Hall
Project Manager

cc: Andrew Wilson (LIRR)
David Glass (TRC)
Steven Meersma (TRC)
Daniel Warren (TRC)

Enclosures:
Table 1 – Results of Analyses of Soil for VOCs
Table 2 – Results of Analyses of Soil for SVOCs
Table 3 – Results of Analyses of Groundwater for VOCs
Table 4 – Results of Analyses of Groundwater for SVOCs
Table 5 – Results of Analyses of Groundwater for Iron and Manganese
Figure 1 – Site Location
Figure 2 – Site Plan
Figure 3 – Soil Boring and Groundwater Monitoring Well Locations
Figure 4 – Groundwater Monitoring Well Locations and Compounds Detected Above Class GA Values – December 2012
Figure 5 – Groundwater Surface Elevation Contours – December 2012
Attachment A – NYSDEC Work Plan Approval Letter
Attachment B – Photographs of Soil Boring and Monitoring Well Installation
Attachment C – Soil Boring Log
Attachment D – Well Construction Log

Attachment E – Groundwater Monitoring Well Development Log
Attachment F – Groundwater Sampling Log
Attachment G – Laboratory Data Package
Attachment H – Figure 14 from RI Report

TABLES

Table 1
MTA Long Island Rail Road
Richmond Hill Yard - Spill Case No. 89-08760
189-02 89th Avenue Richmond Hill, NY
Results of Analyses of Soil for VOCs

Sample ID		MW-39S (25-27)		MW-39S (25-27) DUP		MW-39S (47-49)		FB091212		TRIP BLANK	
Lab Sample ID		D4153-01		D4153-03		D4153-02		D4153-04		D4153-05	
Sampling Date		9/12/2012		9/12/2012		9/12/2012		9/12/2012		9/6/2012	
Dilution Factor		1		1		1		1		1	
Matrix		Soil		Soil		Soil		Water		Water	
Volatile Organic Compounds (VOCs)	NYSDEC CP-51/SCL Table 3 - Fuel Oil (mg/kg)	Results (mg/kg)		Results (mg/kg)		Results (mg/kg)		Results (mg/L)		Results (mg/L)	
1,2,4-Trimethylbenzene	3.6	1.7		1.8		0.0027	U	0.0025	U	0.0025	U
1,3,5-Trimethylbenzene	8.4	0.083	J	0.075	J	0.0027	U	0.0025	U	0.0025	U
Benzene	0.06	0.265	U	0.265	U	0.0027	U	0.0025	U	0.0025	U
Ethyl Benzene	1	0.265	U	0.265	U	0.0027	U	0.0025	U	0.0025	U
Isopropylbenzene	2.3	0.051	J	0.051	J	0.0027	U	0.0025	U	0.0025	U
p- & m- Xylenes	0.26 (1)	0.550	U	0.550	U	0.0055	U	0.0050	U	0.0050	U
Methyl tert-butyl ether (MTBE)(2)	0.93	0.265	U	0.265	U	0.0027	U	0.0025	U	0.0025	U
Naphthalene	12	9.3		8.8		0.0027	U	0.0025	U	0.0025	U
n-Butylbenzene	12	0.350	J	0.360	J	0.0027	U	0.0025	U	0.0025	U
n-Propylbenzene	3.9	0.130	J	0.140	J	0.0027	U	0.0025	U	0.0025	U
o-Xylene	0.26 (1)	0.265	U	0.265	U	0.0027	U	0.0025	U	0.0025	U
p-Isopropyltoluene	10	5.2		5.1		0.0027	U	0.0025	U	0.0025	U
sec-Butylbenzene	11	0.340	J	0.430	J	0.0027	U	0.0025	U	0.0025	U
tert-Butylbenzene	5.9	0.265	U	0.265	U	0.0027	U	0.0025	U	0.0025	U
Toluene	0.7	0.265	U	0.265	U	0.0027	U	0.0025	U	0.0025	U
Xylenes (Total)(1)	0.26	0.550	U	0.550	U	0.0055	U	0.0050	U	0.0050	U

Notes:

mg/kg - milligrams per kilogram

mg/L - milligrams per liter

U - Analyte was not detected at the indicated concentration.

J - Estimated Value

NYSDEC CP-51/SCL - New York State Department of Environmental Conservation Commissioner Policy 51 (CP-51)/Soil Cleanup Level.

(1) - There is no SCL for m/p xylene or o-xylene. The SCL for total xylenes is 0.26 mg/kg. Total xylenes in this table are the sum of m/p-xylene and o-xylene.

(2) - MTBE SCL from Table 2 reported for reference.

Table 2
MTA Long Island Rail Road
Richmond Hill Yard - Spill Case No. 89-08760
189-02 89th Avenue Richmond Hill, NY
Results of Analyses of Soil for SVOCs

Sample ID		MW-39S (25-27)		MW-39S (25-27) DUP		MW-39S (47-49)		FB091212	
Lab Sample ID		D4153-01		D4153-03		D4153-02		D4153-04	
Sampling Date		9/12/2012		9/12/2012		9/12/2012		9/12/2012	
Dilution Factor		1		1		1		1	
Matrix		Soil		Soil		Soil		Water	
Semi-Volatile Organic Compounds (SVOCs)	NYSDEC CP-51/SCL Table 3 - Fuel Oil (mg/kg)	Results (mg/kg)		Results (mg/kg)		Results (mg/kg)		Results (mg/L)	
Acenaphthene	20	1.8		2.0		0.185	U	0.0055	U
Acenaphthylene	100	0.175	U	0.175	U	0.185	U	0.0055	U
Anthracene	100	1.0		1.1		0.185	U	0.0055	U
Benzo(a)anthracene	1	0.175	U	0.175	U	0.185	U	0.0055	U
Benzo(a)pyrene	1	0.175	U	0.175	U	0.185	U	0.0055	U
Benzo(b)fluoranthene	1	0.175	U	0.175	U	0.185	U	0.0055	U
Benzo(g,h,i)perylene	100	0.175	U	0.175	U	0.185	U	0.0055	U
Benzo(k)fluoranthene	0.8	0.175	U	0.175	U	0.185	U	0.0055	U
Chrysene	1	0.175	U	0.175	U	0.185	U	0.0055	U
Dibenzo(a,h)anthracene	0.33	0.175	U	0.175	U	0.185	U	0.0055	U
Fluoranthene	100	0.420		0.420		0.185	U	0.0055	U
Fluorene	30	4.7	D	4.8	D	0.185	U	0.0055	U
Indeno(1,2,3-cd)pyrene	0.5	0.175	U	0.175	U	0.185	U	0.0055	U
Phenanthrene	100	9.3	D	8.8	D	0.185	U	0.0055	U
Pyrene	100	1.5		1.5		0.185	U	0.0055	U

Notes:

mg/kg - milligrams per kilogram

mg/L - milligrams per liter

U - Analyte not detected at the indicated concentration.

D - Reported value is the result of a secondary dilution.

J - Estimated Value

NYSDEC CP-51/SCL - New York State Department of Environmental Conservation Commissioner Policy 51 (CP-51)/Soil Cleanup Level.

Table 3
MTA Long Island Rail Road
Richmond Hill Yard - Spill Case No. 89-08760
189-02 89th Avenue Richmond Hill, NY
Results of Analyses of Groundwater for VOCs

Sample ID		MW-28S		MW-34S		MW-35S		MW-36S		MW-39S		DUP-3[b]		MW-GF-6		MW-GF-7		MW-GF-9		MW-GF-15		MW-GF-16		MW-GF-17		MW-GF-18		TRIP BLANK-2		EQUIPMENT BLANK-2[c]	
Lab Sample Number		D5166-03		D5165-06		D5165-03		D5165-08		D5165-01		D5165-02		D5165-04		D5165-07		D5165-05		D5165-13		D5166-04		D5165-14		D5165-09		D5166-05		D5165-12	
Sampling Date		12/13/2012		12/12/2012		12/12/2012		12/12/2012		12/12/2012		12/12/2012		12/12/2012		12/12/2012		12/12/2012		12/13/2012		12/13/2012		12/13/2012		12/12/2012		12/13/2012		12/12/2012	
Dilution Factor		1		1		1		1		1		1		1		1		1		1		1		1		1		1		1	
Units		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
VOC	Class GA Value[a] (ug/L)																														
1,1,1,2-Tetrachloroethane	5	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1,1-Trichloroethane	5	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1,2,2-Tetrachloroethane	5	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1,2-Trichloroethane	1	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1-Dichloroethane	5	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1-Dichloroethene	5	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1-Dichloropropene	5	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2,3-Trichlorobenzene	5	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2,3-Trichloropropane	0.04	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2,4-Trichlorobenzene	5	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2,4-Trimethylbenzene	5	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dibromo-3-Chloropropane	0.04	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dibromoethane	0.0006	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dichlorobenzene	3	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dichloroethane	0.6	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dichloropropane	1	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,3,5-Trimethylbenzene	5	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,3-Dichlorobenzene	3	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,3-Dichloropropane	5	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,4-Dichlorobenzene	3	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
2,2-Dichloropropane	5	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
2-Butanone	50	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	5.1	
2-Chlorotoluene	5	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
2-Hexanone	50	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
4-Chlorotoluene	5	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
4-Methyl-2-Pentanone	NC	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Acetone	50	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.8	J
Benzene	1	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Bromobenzene	5	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Bromochloromethane	5	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Bromodichloromethane	50	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Bromoform	50	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Bromomethane	5	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Carbon Disulfide	60	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Carbon Tetrachloride	5	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Chlorobenzene	5	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Chloroethane	5	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Chloroform	7	0.42	J	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	2.0		0.50	U	0.50	U	0.50	U
Chloromethane	5	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
cis-1,2-Dichloroethene	5	0.50	U	0.50	U	0.50	U	0.50	U	2.3		2.2		0.50	U	0.50	U	0.50	U	0.42	J	**12**		0.50	U	0.50	U	0.50	U	0.50	U
cis-1,3-Dichloropropene	0.4	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Chlorodibromomethane	50	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Dibromomethane	5	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Dichlorodifluoromethane	5	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Ethylbenzene	5	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Hexachlorobutadiene	0.5	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Isopropylbenzene	5	0.50	U	0.50	U	1.8		3.4		0.50	U	0.50	U	0.50	U	4.9		0.50	U	2.1		0.50	U	0.50	U	3.6		0.50	U	0.50	U
m/p-Xylenes	5	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Iodomethane	5	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Methyl tert-butyl Ether	10	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Methylene Chloride	5	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	3.9	
Naphthalene	10	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
n-Butylbenzene	5	0.50	U	0.50	U	2.4		2.8		0.50	U	0.50	U	0.50	U	4.0		0.50	U	3.2		0.50	U	0.50	U	3.7		0.50	U	0.50	U
n-Propylbenzene	5	0.50	U	0.50	U	0.50	U	2.9		0.50	U	0.50	U	0.50	U	1.8		0.50	U	3.1		0.50	U	0.50	U	2.2		0.50	U	0.50	U
o-Xylene	5	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
p-Isopropyltoluene	5	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
sec-Butylbenzene	5	0.50	U	0.50	U	4.1		**5.9**		0.50	U	0.50	U	0.50	U	**7.6**		0.50	U	4.9		0.50	U	0.50	U	**5.3**		0.50	U	0.50	U
Styrene	5	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
trans-1,3-Dichloropropene	0.4	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
tert-Butylbenzene	5	0.50	U	0.50	U	0.94	J	1.4		0.50	U	0.50	U	0.50	U	1.2		0.50	U	0.6	J	0.50	U	0.50	U	1.4		0.50	U	0.50	U
Tetrachloroethene	5	0.50	U	0.50	U	0.50	U	0.50	U	**37**		**37**		0.50	U	0.50	U	0.50	U	0.50	U	**26**		**12**		0.50	U	0.50	U	0.50	U
Toluene	5	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
trans-1,2-Dichloroethene	5	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Trichloroethene	5	0.50	U	0.50	U	0.50	U	0.50	U	2.8		2.9		0.50	U	0.50	U	0.50	U	0.50	U	3.4		1.3		0.50	U	0.50	U	0.50	U
Trichlorofluoromethane	5	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Vinyl Acetate	NC	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Vinyl Chloride	2	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Sum of detected VOCs		0.42		0		9.24		16.40		42.10		42.10		0		19.50		0		14.32		41.40		15.30		16.20		0		11.80	

Notes:

Concentrations shaded and bold exceed standard or guidance value

[a] NYSDEC Class GA Standards and Guidance Values for Groundwater

[b] Sample labeled as DUP-A in analytical data package.

[c] Sample labeled as EQUIPMENTBLANK in analytical data package.

VOC= Volatile Organic Compound

J = Estimated value

ug/L = micrograms per liter

NC = No criteria

U = Analyte not detected at the indicated concentration

Q = Indicates laboratory controlled sample control criteria did not meet requirements

Table 4
MTA Long Island Rail Road
Richmond Hill Yard - Spill Case No. 89-08760
189-02 89th Avenue Richmond Hill, NY
Results of Analyses of Groundwater for SVOCs

Sample ID		MW-28S		MW-34S		MW-35S		MW-36S		MW-39S		DUP-3[c]		MW-GF-6		MW-GF-7		MW-GF-9		MW-GF-15		MW-GF-16		MW-GF-17		MW-GF-18		EQUIPMENT BLANK-2[d]	
Lab Sample Number		D5166-03		D5166-06		D5165-03		D5165-08		D5165-01		D5165-02		D5165-04		D5165-07		D5165-05		D5165-13		D5166-04		D5165-14		D5165-09		D5165-12	
Sampling Date		12/13/2012		12/12/2012		12/12/2012		12/12/2012		12/12/2012		12/12/2012		12/12/2012		12/12/2012		12/12/2012		12/13/2012		12/13/2012		12/13/2012		12/12/2012		12/12/2012	
Dilution Factor		1		1		1		1		1		1		1		1		1		1		1		1		1		1	
Units		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
SVOC	**Class GA Value[a] (ug/L)**																												
1,2,4-Trichlorobenzene	5	5.2	U	5.2	U	5.2	U	5.05	U	5.5	U	5.15	U	5.45	U	5.15	U	5.1	U	5.1	U	5.4	U	5.05	U	5.1	U	5.05	U
1,2-Dichlorobenzene	3	5.2	U	5.2	U	5.2	U	5.05	U	5.5	U	5.15	U	5.45	U	5.15	U	5.1	U	5.1	U	5.4	U	5.05	U	5.1	U	5.05	U
1,3-Dichlorobenzene	3	5.2	U	5.2	U	5.2	U	5.05	U	5.5	U	5.15	U	5.45	U	5.15	U	5.1	U	5.1	U	5.4	U	5.05	U	5.1	U	5.05	U
1,4-Dichlorobenzene	3	5.2	U	5.2	U	5.2	U	5.05	U	5.5	U	5.15	U	5.45	U	5.15	U	5.1	U	5.1	U	5.4	U	5.05	U	5.1	U	5.05	U
2,2-oxybis(1-Chloropropane)	5	5.2	U	5.2	U	5.2	U	5.05	U	5.5	U	5.15	U	5.45	U	5.15	U	5.1	U	5.1	U	5.4	U	5.05	U	5.1	U	5.05	U
2,4,5-Trichlorophenol[f]	1	5.2	U	5.2	U	5.2	U	5.05	U	5.5	U	5.15	U	5.45	U	5.15	U	5.1	U	5.1	U	5.4	U	5.05	U	5.1	U	5.05	U
2,4,6-Trichlorophenol[f]	1	5.2	U	5.2	U	5.2	U	5.05	U	5.5	U	5.15	U	5.45	U	5.15	U	5.1	U	5.1	U	5.4	U	5.05	U	5.1	U	5.05	U
2,4-Dichlorophenol	5	5.2	U	5.2	U	5.2	U	5.05	U	5.5	U	5.15	U	5.45	U	5.15	U	5.1	U	5.1	U	5.4	U	5.05	U	5.1	U	5.05	U
2,4-Dimethylphenol	50	5.2	U	5.2	U	5.2	U	5.05	U	5.5	U	5.15	U	5.45	U	5.15	U	5.1	U	5.1	U	5.4	U	5.05	U	5.1	U	5.05	U
2,4-Dinitrophenol	10	5.2	U	5.2	U	5.2	U	5.05	U	5.5	U	5.15	U	5.45	U	5.15	U	5.1	U	5.1	U	5.4	U	5.05	U	5.1	U	5.05	U
2,4-Dinitrotoluene	5	5.2	U	5.2	U	5.2	U	5.05	U	5.5	U	5.15	U	5.45	U	5.15	U	5.1	U	5.1	U	5.4	U	5.05	U	5.1	U	5.05	U
2,6-Dinitrotoluene	5	5.2	U	5.2	U	5.2	U	5.05	U	5.5	U	5.15	U	5.45	U	5.15	U	5.1	U	5.1	U	5.4	U	5.05	U	5.1	U	5.05	U
2-Chloronaphthalene	10	5.2	U	5.2	U	5.2	U	5.05	U	5.5	U	5.15	U	5.45	U	5.15	U	5.1	U	5.1	U	5.4	U	5.05	U	5.1	U	5.05	U
2-Chlorophenol[f]	1	5.2	U	5.2	U	5.2	U	5.05	U	5.5	U	5.15	U	5.45	U	5.15	U	5.1	U	5.1	U	5.4	U	5.05	U	5.1	U	5.05	U
2-Methylnaphthalene	NC	5.2	U	5.2	U	5.2	U	31		5.5	U	5.15	U	5.45	U	5.15	U	5.1	U	5.8	J	5.4	U	5.1	U	89	E	5.05	U
2-Methylphenol[f]	1	5.2	UQ	5.2	UQ	5.2	UQ	5.05	UQ	5.5	UQ	5.15	UQ	5.45	UQ	5.15	UQ	5.1	UQ	5.1	UQ	5.4	UQ	5.05	UQ	5.1	UQ	5.05	UQ
2-Nitroaniline	5	5.2	U	5.2	U	5.2	U	5.05	U	5.5	U	5.15	U	5.45	U	5.15	U	5.1	U	5.1	U	5.4	U	5.05	U	5.1	U	5.05	U
2-Nitrophenol	1	5.2	U	5.2	U	5.2	U	5.05	U	5.5	U	5.15	U	5.45	U	5.15	U	5.1	U	5.1	U	5.4	U	5.05	U	5.1	U	5.05	U
3,3-Dichlorobenzidine	5	5.2	U	5.2	U	5.2	U	5.05	U	5.5	U	5.15	U	5.45	U	5.15	U	5.1	U	5.1	U	5.4	U	5.05	U	5.1	U	5.05	U
3+4-Methylphenols[g]	1	5.2	UQ	5.2	UQ	5.2	UQ	5.05	UQ	5.5	UQ	5.15	UQ	5.45	UQ	5.15	UQ	5.1	UQ	5.1	UQ	5.4	UQ	5.05	UQ	5.1	UQ	5.05	UQ
3-Nitroaniline	5	5.2	U	5.2	U	5.2	U	5.05	U	5.5	U	5.15	U	5.45	U	5.15	U	5.1	U	5.1	U	5.4	U	5.05	U	5.1	U	5.05	U
4,6-Dinitro-2-methylphenol[f]	1	5.2	U	5.2	U	5.2	U	5.05	U	5.5	U	5.15	U	5.45	U	5.15	U	5.1	U	5.1	U	5.4	U	5.05	U	5.1	U	5.05	U
4-Bromophenyl-phenylether	NC	5.2	U	5.2	U	5.2	U	5.05	U	5.5	U	5.15	U	5.45	U	5.15	U	5.1	U	5.1	U	5.4	U	5.05	U	5.1	U	5.05	U
4-Chloro-3-methylphenol[f]	1	5.2	U	5.2	U	5.2	U	5.05	U	5.5	U	5.15	U	5.45	U	5.15	U	5.1	U	5.1	U	5.4	U	5.05	U	5.1	U	5.05	U
4-Chloroaniline	5	5.2	U	5.2	U	5.2	U	5.05	U	5.5	U	5.15	U	5.45	U	5.15	U	5.1	U	5.1	U	5.4	U	5.05	U	5.1	U	5.05	U
4-Chlorophenyl-phenylether	NC	5.2	U	5.2	U	5.2	U	5.05	U	5.5	U	5.15	U	5.45	U	5.15	U	5.1	U	5.1	U	5.4	U	5.05	U	5.1	U	5.05	U
4-Nitroaniline	5	5.2	U	5.2	U	5.2	U	5.05	U	5.5	U	5.15	U	5.45	U	5.15	U	5.1	U	5.1	U	5.4	U	5.05	U	5.1	U	5.05	U
4-Nitrophenol[f]	1	5.2	U	5.2	U	5.2	U	5.05	U	5.5	U	5.15	U	5.45	U	5.15	U	5.1	U	5.1	U	5.4	U	5.05	U	5.1	U	5.05	U
Acenaphthene	20	5.2	U	5.2	U	4.4	J	7.2	J	5.5	U	5.15	U	5.45	U	6.4	J	5.1	U	5.1	U	5.4	U	5.1	U	8.3	J	5.05	U
Acenaphthylene	NC	5.2	U	5.2	U	5.2	U	5.05	U	5.5	U	5.15	U	5.45	U	5.15	U	5.1	U	5.1	U	5.4	U	5.05	U	5.1	U	5.05	U
Anthracene	50	5.2	U	5.2	U	5.2	U	5.05	U	5.5	U	5.15	U	5.45	U	5.15	U	5.1	U	5.1	U	5.4	U	5.05	U	5.1	U	5.05	U
Benzo(a)anthracene	0.002	5.2	U	5.2	U	5.2	U	5.05	U	5.5	U	5.15	U	5.45	U	5.15	U	5.1	U	5.1	U	5.4	U	5.05	U	5.1	U	5.05	U
Benzo(a)pyrene	ND	5.2	U	5.2	U	5.2	U	5.05	U	5.5	U	5.15	U	5.45	U	5.15	U	5.1	U	5.1	U	5.4	U	5.05	U	5.1	U	5.05	U
Benzo(b)fluoranthene	0.002	5.2	U	5.2	U	5.2	U	5.05	U	5.5	U	5.15	U	5.45	U	5.15	U	5.1	U	5.1	U	5.4	U	5.05	U	5.1	U	5.05	U
Benzo(g,h,i)perylene	NC	5.2	U	5.2	U	5.2	U	5.05	U	5.5	U	5.15	U	5.45	U	5.15	U	5.1	U	5.1	U	5.4	U	5.05	U	5.1	U	5.05	U
Benzo(k)fluoranthene	0.002	5.2	U	5.2	U	5.2	U	5.05	U	5.5	U	5.15	U	5.45	U	5.15	U	5.1	U	5.1	U	5.4	U	5.05	U	5.1	U	5.05	U
bis(2-Chloroethoxy)methane	5	5.2	U	5.2	U	5.2	U	5.05	U	5.5	U	5.15	U	5.45	U	5.15	U	5.1	U	5.1	U	5.4	U	5.05	U	5.1	U	5.05	U
bis(2-Chloroethyl)ether	1	5.2	U	5.2	U	5.2	U	5.05	U	5.5	U	5.15	U	5.45	U	5.15	U	5.1	U	5.1	U	5.4	U	5.05	U	5.1	U	5.05	U
bis(2-Ethylhexyl)phthalate	5	5.2	U	5.2	U	5.2	U	5.05	U	5.5	U	5.15	U	5.45	U	5.15	U	5.1	U	5.1	U	5.4	U	5.05	U	5.1	U	5.05	U
Butylbenzylphthalate	50	5.2	U	5.2	U	5.2	U	5.05	U	5.5	U	5.15	U	5.45	U	5.15	U	5.1	U	5.1	U	5.4	U	5.05	U	5.1	U	5.05	U
Carbazole	NC	5.2	U	5.2	U	5.2	U	5.05	U	5.5	U	5.15	U	5.45	U	28.4		5.1	U	5.1	U	5.4	U	5.05	U	6.6	J	5.05	U
Chrysene	0.002	5.2	U	5.2	U	5.2	U	5.05	U	5.5	U	5.15	U	5.45	U	5.15	U	5.1	U	5.1	U	5.4	U	5.05	U	5.1	U	5.05	U
Dibenz(a,h)anthracene	NC	5.2	U	5.2	U	5.2	U	5.05	U	5.5	U	5.15	U	5.45	U	5.15	U	5.1	U	5.1	U	5.4	U	5.05	U	5.1	U	5.05	U
Dibenzofuran	NC	5.2	U	5.2	U	5.2	U	6.6	J	5.5	U	5.15	U	5.45	U	4.3	J	5.1	U	5.1	U	5.4	U	5.1	U	7.5	J	5.05	U
Diethylphthalate	50	5.2	U	5.2	U	5.2	U	5.05	U	5.5	U	5.15	U	5.45	U	5.15	U	5.1	U	5.1	U	5.4	U	5.05	U	5.1	U	5.05	U
Dimethylphthalate	50	5.2	U	5.2	U	5.2	U	5.05	U	5.5	U	5.15	U	5.45	U	5.15	U	5.1	U	5.1	U	5.4	U	5.05	U	5.1	U	5.05	U
Di-n-butylphthalate	50	5.2	U	5.2	U	5.2	U	5.05	U	5.5	U	5.15	U	5.45	U	5.15	U	5.1	U	5.1	U	5.4	U	5.05	U	5.1	U	5.05	U
Di-n-octyl phthalate	50	5.2	U	5.2	U	5.2	U	5.05	U	5.5	U	5.15	U	5.45	U	5.15	U	5.1	U	5.1	U	5.4	U	5.05	U	5.1	U	5.05	U
Fluoranthene	50	5.2	U	5.2	U	5.2	U	5.05	U	5.5	U	5.15	U	5.45	U	5.15	U	5.1	U	5.1	U	5.4	U	5.05	U	5.1	U	5.05	U
Fluorene	50	5.2	U	5.2	U	4.7	J	10	J	5.5	U	5.15	U	5.45	U	7.9	J	5.1	U	5.1	U	5.4	U	5.1	U	11.3		5.05	U
Hexachlorobenzene	0.04	5.2	U	5.2	U	5.2	U	5.05	U	5.5	U	5.15	U	5.45	U	5.15	U	5.1	U	5.1	U	5.4	U	5.05	U	5.1	U	5.05	U
Hexachlorobutadiene	0.5	5.2	U	5.2	U	5.2	U	5.05	U	5.5	U	5.15	U	5.45	U	5.15	U	5.1	U	5.1	U	5.4	U	5.05	U	5.1	U	5.05	U
Hexachlorocyclopentadiene	5	5.2	U	5.2	U	5.2	U	5.05	U	5.5	U	5.15	U	5.45	U	5.15	U	5.1	U	5.1	U	5.4	U	5.05	U	5.1	U	5.05	U
Hexachloroethane	5	5.2	U	5.2	U	5.2	U	5.05	U	5.5	U	5.15	U	5.45	U	5.15	U	5.1	U	5.1	U	5.4	U	5.05	U	5.1	U	5.05	U
Indeno(1,2,3-cd)pyrene	0.002	5.2	U	5.2	U	5.2	U	5.05	U	5.5	U	5.15	U	5.45	U	5.15	U	5.1	U	5.1	U	5.4	U	5.05	U	5.1	U	5.05	U
Isophorone	50	5.2	U	5.2	U	5.2	U	5.05	U	5.5	U	5.15	U	5.45	U	5.15	U	5.1	U	5.1	U	5.4	U	5.05	U	5.1	U	5.05	U
Naphthalene	10	5.2	U	5.2	U	5.2	U	5.05	U	5.5	U	5.15	U	5.45	U	5.15	U	5.1	U	5.1	U	5.4	U	5.05	U	5.1	U	5.05	U
Nitrobenzene	0.4	5.2	U	5.2	U	5.2	U	5.05	U	5.5	U	5.15	U	5.45	U	5.15	U	5.1	U	5.1	U	5.4	U	5.05	U	5.1	U	5.05	U
N-Nitroso-di-n-propylamine	NC	5.2	U	5.2	U	5.2	U	5.05	U	5.5	U	5.15	U	5.45	U	5.15	U	5.1	U	5.1	U	5.4	U	5.05	U	5.1	U	5.05	U
N-Nitrosodiphenylamine	50	5.2	U	5.2	U	5.2	U	5.05	U	5.5	U	5.15	U	5.45	U	5.15	U	5.1	U	5.1	U	5.4	U	5.05	U	5.1	U	5.05	U
Pentachlorophenol[f]	1	5.2	U	5.2	U	5.2	U	5.05	U	5.5	U	5.15	U	5.45	U	5.15	U	5.1	U	5.1	U	5.4	U	5.05	U	5.1	U	5.05	U
Phenanthrene	50	5.2	U	5.2	U	5.2	U	9.9	J	5.5	U	5.15	U	5.45	U	6.3	J	5.1	U	5.1	U	5.4	U	5.1	U	13.5		5.05	U
Phenol[f]	1	5.2	U	5.2	U	5.2	U	5.05	U	5.5	U	5.15	U	5.45	U	5.15	U	5.1	U	5.1	U	5.4	U	5.05	U	5.1	U	5.05	U
Pyrene	50	5.2	U	5.2	U	5.2	U	5.05	U	5.5	U	5.15	U	5.45	U	5.15	U	5.1	U	5.1	U	5.4	U	5.05	U	5.1	U	5.05	U
Sum of detected SVOCs	NC	0		0		9.10		64.70		0		0		0		53.30		0		5.80		0		0		136.20		0	

Concentrations shaded and bold exceed standard or guidance value

[a] NYSDEC Class GA Standards and Guidance Values for Groundwater
[f] The Class GA Standard for total phenols is 1 ug/L
[c] Sample labeled as DUP-A in analytical data package.
[d] Sample labeled as EQUIPMENTBLANK in analytical data package.
SVOC = Semi-Volatile Organic Compound
J = Estimated value
ug/L = micrograms per liter
E = Exceeded calibration range of the equipment
NC = No criteria
U = Analyte not detected at the indicated concentration
Q = Indicates laboratory controlled sample control criteria did not meet requirements

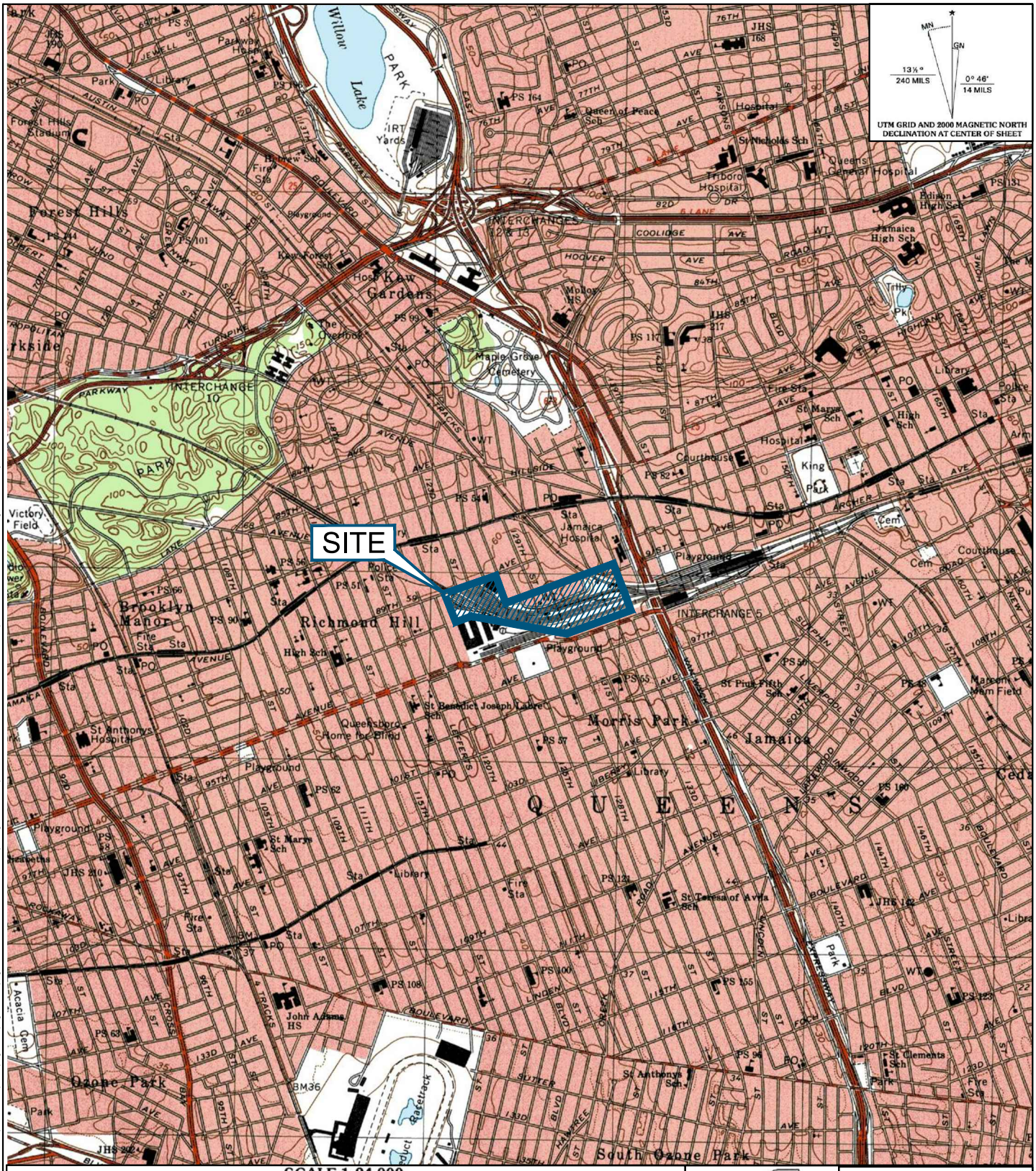
Table 5
MTA Long Island Rail Road
Richmond Hill Yard - Spill Case No. 89-08760
189-02 89th Avenue Richmond Hill, NY
Results of Analyses of Groundwater for Iron and Manganese

Sample ID		MW-39S	
Lab Sample Number		D5165-01	
Sampling Date		12/12/2012	
Dilution Factor		1	
Units		ug/L	
Metals	**Class GA Value[a] (ug/L)**		
Iron	NA	59.8	
Manganese	NA	1,580	U

[a] NYSDEC Class GA Standards and Guidance Values for Groundwater

NA = Not applicable. Iron and manganese analyses were performed in support of evaluating remedial alternatives. Therefore results are not compared to NYSDEC Class GA Values.

FIGURES



SCALE 1:24 000

1 0.5 0 KILOMETERS 1 2

1000 0 METERS 1000 2000

1 0.5 0 MILES 1

1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000 FEET

NEW YORK

QUADRANGLE LOCATION

JAMAICA, NY

1994

NIMA 6265 III NE-SERIES V821

MAP OBTAINED THROUGH USE OF MAPTECH TERRAIN NAVIGATOR PRO SOFTWARE.

TRC
1430 BROADWAY, 10TH FLOOR
NEW YORK, NEW YORK 10018
212-221-7822

DESIGNED BY: DW

DRAWN BY: HD

CHECKED BY: SM

DATE: MARCH 2013

SCALE: AS SHOWN

PROJECT NUMBER: 178983.0000.0000

PROJECT NAME:

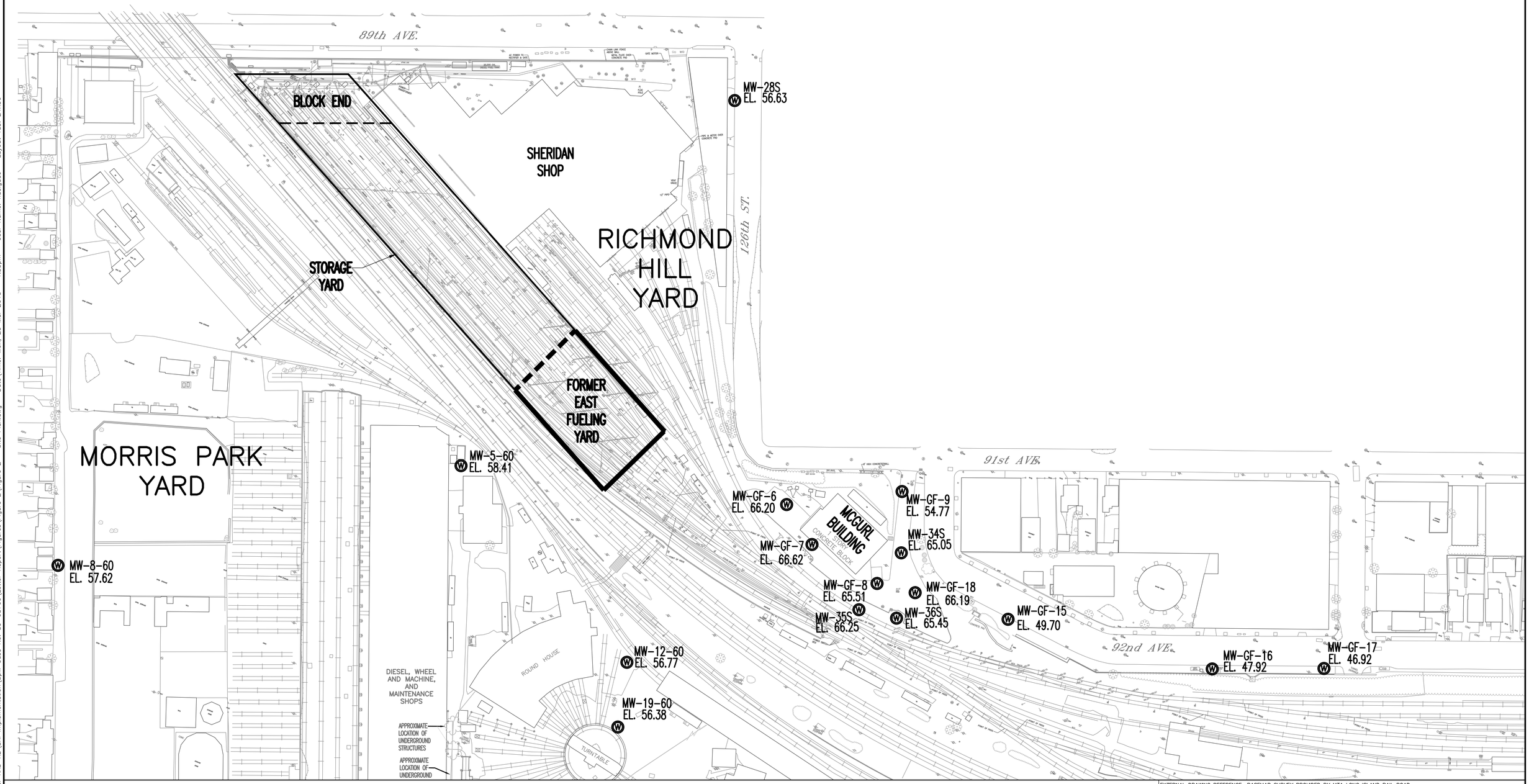
MTA LONG ISLAND RAIL ROAD
RICHMOND HILL YARD
QUEENS, NEW YORK

DRAWING TITLE:

SITE LOCATION

FIGURE
1

Path\Name: I:\Projects\178983 – LIRR Richmond Hill SI-RAS-RD\Letter Report\Figures\Figure 1\Figure 1 – Site Location Map.dwg – Date\Time: Wed, 13 Mar 2013 – 4:27pm – User Name: hdelgado – Layout Tab: 8.5X11



NOTES:

1. BASE MAP COMPILED BY AIR SURVEY PHOTOGRAMMETRIC MAPPING SERVICES, 45180 BUSINESS COURT, DULLES, VIRGINIA 20166-6706 BY PHOTOGRAMMETRIC METHODS FROM AERIAL PHOTOGRAPHY DATED 02-14-04.
2. THE LOCATIONS OF UNDERGROUND STRUCTURES AND UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE.
3. WELLS LABELED MW-GF-XX WERE SURVEYED BY NIK CONSULTING GROUP ON MAY 20 AND 21, 2007.
4. WELLS LABELED MW-34S, MW-35S AND MW-36S WERE SURVEYED BY MUNOZ ENGINEERING P.C. IN OCTOBER 2009.

HORIZONTAL DATUM: NAD 1983
VERTICAL DATUM: NAVD 1988

LEGEND:

MW-GF-6 EL. 66.20 (W) GROUNDWATER MONITORING WELL LOCATION, IDENTIFICATION NUMBER AND ELEVATION OF TOP OF CASING (SYMBOL NOT TO SCALE)

NORTH

0 60' 120'
GRAPHIC SCALE
SHEET SIZE: 24"X36"

EXTERNAL DRAWING REFERENCE: BASEMAP SURVEY PROVIDED BY MTA LONG ISLAND RAIL ROAD

NUMBER	DATE	REVISIONS	APPROVED

TRC
1430 BROADWAY, 10TH FLOOR
NEW YORK, NEW YORK 10018
212-221-7822

MTA LONG ISLAND RAIL ROAD
RICHMOND HILL YARD
QUEENS, NEW YORK

SITE PLAN

PO# 178983.000003.000000
DRAWN: HD 3/25/13
CHECKED: DSG 3/25/13
SHEET 1 OF 1
SCALE: AS SHOWN

FIG.2

Path\Name: I:\Projects\178983 - LIRR Richmond Hill SI-RAS-RD\SRI Implementation\Spill Case No. 89-08760\Letter Report\Figures\Figure 2\Figure 2 - Site Plan.dwg -- Date\Time: Mon, 25 Mar 2013 -- 1:55pm -- User Name: hdelgado -- Layout Tab: 24X36

MORRIS
PARK YARD

RICHMOND HILL YARD

STORAGE
YARD

TRACK 7

TRACK 6

FORMER EAST
FUELING YARD

MW-38S
ORIGINAL PROPOSED LOCATION

MW-38S
ATTEMPT NO. 2

MW-38S
ATTEMPT NO. 3

MW-39S

MW-5-60

MW-GF-6

NOTES:

1. BASE MAP COMPILED BY AIR SURVEY PHOTOGRAMMETRIC MAPPING SERVICES, 45180 BUSINESS COURT, DULLES, VIRGINIA 20166-6706 BY PHOTOGRAMMETRIC METHODS FROM AERIAL PHOTOGRAPHY DATED 02-14-04.
2. THE LOCATIONS OF UNDERGROUND STRUCTURES AND UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE.
3. WELLS LABELED MW-GF-XX WERE SURVEYED BY NIK CONSULTING GROUP ON MAY 20 AND 21, 2007.
4. WELLS LABELED MW-34S, MW-35S AND MW-36S WERE SURVEYED BY MUNOZ ENGINEERING P.C. IN OCTOBER 2009.
5. HORIZONTAL DATUM: NAD 1983
   VERTICAL DATUM: NAVD 1988

LEGEND (SYMBOLS NOT TO SCALE):

MW-GF-6 (W) EXISTING GROUNDWATER MONITORING WELL LOCATION AND IDENTIFICATION NUMBER

MW-X SUPPLEMENTAL INVESTIGATION SOIL BORING AND GROUNDWATER MONITORING WELL LOCATION AND IDENTIFICATION NUMBER

NORTH

0 20' 40'
GRAPHIC SCALE

SHEET SIZE: 24"X36"

EXTERNAL DRAWNG REFERENCE: BASEMAP SURVEY PROVIDED BY MTA LONG ISLAND RAIL ROAD

NUMBER	DATE	REVISIONS	APPROVED

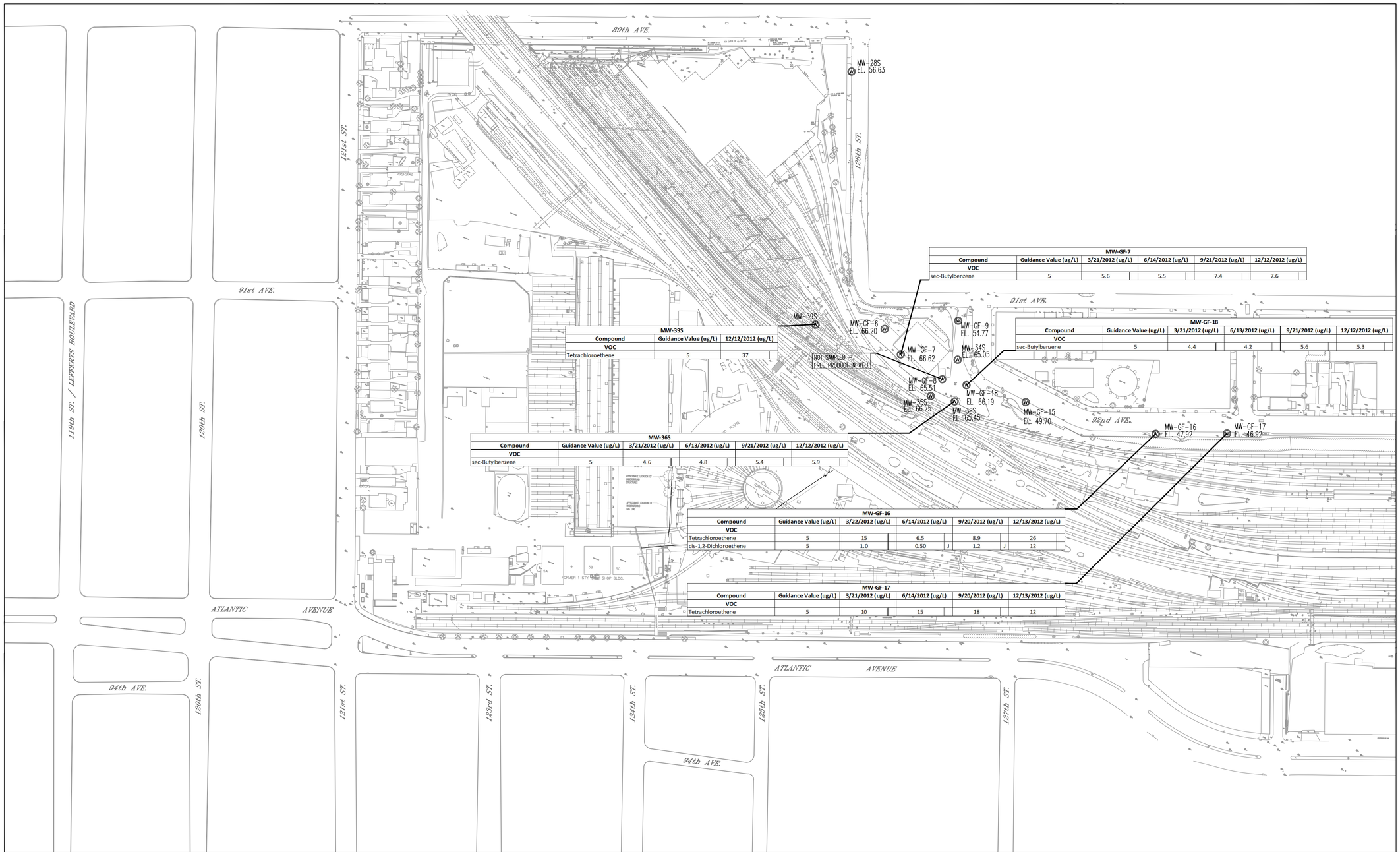
TRC
1430 BROADWAY, 10TH FLOOR
NEW YORK, NEW YORK 10018
212-221-7822

MTA LONG ISLAND RAIL ROAD
RICHMOND HILL YARD
QUEENS, NEW YORK

SOIL BORING AND
GROUNDWATER MONITORING WELL LOCATIONS

PO# 178983.000003.000000			SHEET 1 OF 1	FIG.3
DRAWN:	HD	3/25/13	SCALE: AS SHOWN	
CHECKED:	DSG	3/25/13		

Path\Name: I:\Projects\178983 - LIRR Richmond Hill SI-RAS-RD\SRI Implementation\Spill Case No. 89-08760\Letter Report\Figures\Figure 3\Figure 3 - SB & GW MW Locations.dwg - Date\Time: Mon, 25 Mar 2013 - 2:05pm - User Name: hdelgado - Layout Tab: 24X36



MW-GF-7

Compound	Guidance Value (ug/L)	3/21/2012 (ug/L)	6/14/2012 (ug/L)	9/21/2012 (ug/L)	12/12/2012 (ug/L)
VOC					
sec-Butylbenzene	5	5.6	5.5	7.4	7.6

MW-GF-18

Compound	Guidance Value (ug/L)	3/21/2012 (ug/L)	6/13/2012 (ug/L)	9/21/2012 (ug/L)	12/12/2012 (ug/L)
VOC					
sec-Butylbenzene	5	4.4	4.2	5.6	5.3

MW-39S

Compound	Guidance Value (ug/L)	12/12/2012 (ug/L)
VOC		
Tetrachloroethene	5	37

MW-36S

Compound	Guidance Value (ug/L)	3/21/2012 (ug/L)	6/13/2012 (ug/L)	9/21/2012 (ug/L)	12/12/2012 (ug/L)
VOC					
sec-Butylbenzene	5	4.6	4.8	5.4	5.9

MW-GF-16

Compound	Guidance Value (ug/L)	3/22/2012 (ug/L)	6/14/2012 (ug/L)	9/20/2012 (ug/L)	12/13/2012 (ug/L)
VOC					
Tetrachloroethene	5	15	6.5	8.9	26
cis-1,2-Dichloroethene	5	1.0	0.50 J	1.2 J	12

MW-GF-17

Compound	Guidance Value (ug/L)	3/21/2012 (ug/L)	6/14/2012 (ug/L)	9/20/2012 (ug/L)	12/13/2012 (ug/L)
VOC					
Tetrachloroethene	5	10	15	18	12

NOTES:

1. BASE MAP COMPILED BY AIR SURVEY PHOTOGRAMMETRIC MAPPING SERVICES, 45180 BUSINESS COURT, DULLES, VIRGINIA 20166-6706 USING PHOTOGRAMMETRIC METHODS FROM AERIAL PHOTOGRAPHY DATED 02-14-04.
2. THE LOCATIONS OF UNDERGROUND STRUCTURES AND UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE.
3. WELLS LABELED MW-GF-XX WERE SURVEYED BY NIK CONSULTING GROUP ON MAY 20 AND 21, 2007.
4. WELL LABELED MW-28S WAS SURVEYED BY MUNOZ ENGINEERING P.C. IN OCTOBER 2006.
5. WELLS LABELED MW-34S, MW-35S AND MW-36S WERE SURVEYED BY MUNOZ ENGINEERING P.C. IN OCTOBER 2009.
6. LOCATIONS OF STREETS SOUTH OF ATLANTIC AVENUE AND WEST OF 121ST STREET ARE APPROXIMATE AND BASED ON GOOGLE EARTH 2008 IMAGE.
7. A FIELD DUPLICATE WAS COLLECTED AT MW-39S; THE HIGHER OF THE SAMPLE AND DUPLICATE SAMPLE RESULTS IS INCLUDED ON THIS FIGURE, AS APPLICABLE.
8. COORDINATE SYSTEM: SPC-NY LONG ISLAND ZONE 3104
   HORIZONTAL DATUM: NAD 1983
   VERTICAL DATUM: NAVD 1988
   UNIT: US SURVEY FEET
9. RESULTS OF FOUR MOST RECENT SAMPLING EVENTS SHOWN.
10. LOCATION OF MW-39S IS APPROXIMATE.

LEGEND

MW-GF-6 EL. 66.20 (W) GROUNDWATER MONITORING WELL LOCATION, IDENTIFICATION NUMBER AND ELEVATION OF TOP OF CASING (SYMBOL NOT TO SCALE)

0 100' 200'
GRAPHIC SCALE

EXTERNAL DRAWING REFERENCE: BASEMAP SURVEY PROVIDED BY MTA LONG ISLAND RAIL ROAD

NUMBER	DATE	REVISIONS	APPROVED

TRC
1430 BROADWAY, 10TH FLOOR
NEW YORK, NEW YORK 10018
212-221-7822

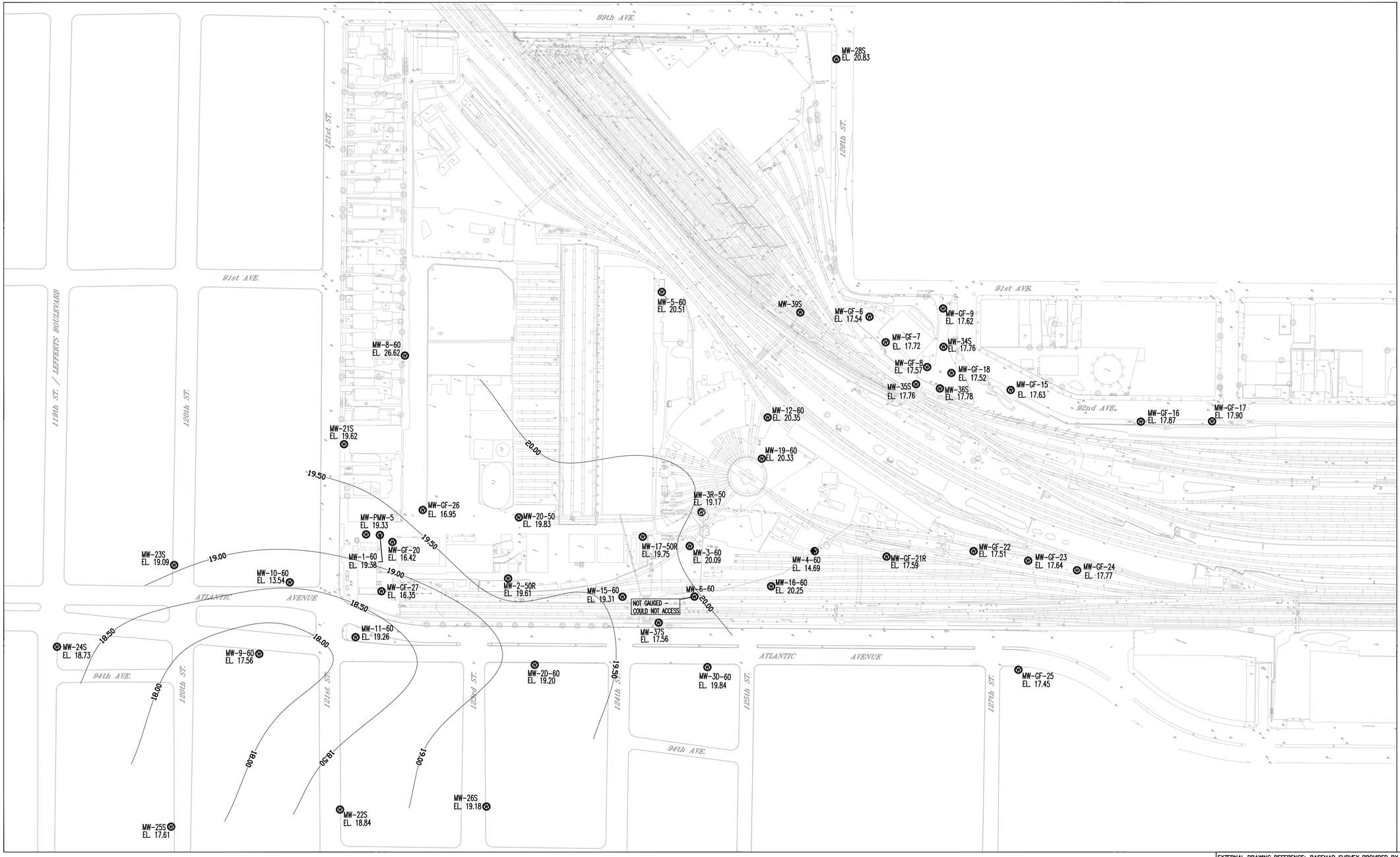
MTA LONG ISLAND RAIL ROAD
RICHMOND HILL YARD
RICHMOND HILL, NEW YORK

GROUNDWATER MONITORING WELL LOCATIONS AND COMPOUNDS DETECTED ABOVE CLASS GA VALUES
DECEMBER 2012

PO# 185138.0000.0000
DRAWN: HD 3/13/13
CHECKED: SM 3/13/13
SHEET 1 OF 1
SCALE: AS SHOWN

FIG.4

Path\Name: I:\Projects\178983 - LIRR Richmond Hill SI-RAS-RD\Letter Report\Figures\Figure 4\Figure 4 - GW MW Locations - Dec. 2012.dwg - Date\Time: Wed, 13 Mar 2013 - 4:23pm - User Name: hdelgado - Layout Tab: FIGURE 2



NOTES:

1. BASE MAP COMPILED BY AIR SURVEY PHOTOGRAMMETRIC MAPPING SERVICES, 45180 BUSINESS COURT, DULLES, VIRGINIA 20166-6706 USING PHOTOGRAMMETRIC METHODS FROM AERIAL PHOTOGRAPHY DATED 02-14-04.
2. THE LOCATIONS OF UNDERGROUND STRUCTURES AND UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE.
3. WELLS LABELED MW-GF-XX WERE SURVEYED BY NIK CONSULTING GROUP ON MAY 20 AND 21, 2007.
4. WELLS LABELED MW-XX-XXX, MW-XXX AND MW-PMW-X WERE SURVEYED BY MUNOZ ENGINEERING P.C. IN OCTOBER 2006.
5. WELLS LABELED MW-34S, MW-35S, MW-36S, MW-37S, MW-GF-21R, AND MW-3R-50 WERE SURVEYED BY MUNOZ ENGINEERING P.C. IN OCTOBER 2009.
6. LOCATIONS OF STREETS SOUTH OF ATLANTIC AVENUE AND WEST OF 121ST STREET ARE APPROXIMATE AND BASED ON GOOGLE EARTH 2008 IMAGE.
7. COORDINATE SYSTEM: SPC-NY LONG ISLAND ZONE 3104
   HORIZONTAL DATUM: NAD 1983
   VERTICAL DATUM: NAVD 1988
   UNIT: US SURVEY FEET
8. DUE TO VARIABILITY IN THE DATUMS USED TO SURVEY THE MONITORING WELLS DURING THE MULTIPLE SURVEYING EVENTS, THE WATER TABLE SURFACE ELEVATIONS MEASURED IN THE FOLLOWING WELLS WERE USED TO GENERATE THE CONTOURS SHOWN: MW-1-60, MW-2-50R, MW-2D-60, MW-3-60, MW-3D-60, MW-5-60, MW-9-60, MW-12-60, MW-16-60, MW-17-50R, MW-19-60, MW-20-50, MW-21S, MW-22S, MW-23S, MW-24S, MW-26S, MW-28S AND MW-PMW-5.

LEGEND

MW-3D-60 EL. 19.84 — GROUNDWATER MONITORING WELL LOCATION, IDENTIFICATION NUMBER AND GROUNDWATER SURFACE ELEVATION (SYMBOL NOT TO SCALE)

20.00 — GROUNDWATER SURFACE ELEVATION CONTOUR (FEET)

0 100' 200'
GRAPHIC SCALE

NORTH

EXTERNAL DRAWING REFERENCE: BASEMAP SURVEY PROVIDED BY MTA LONG ISLAND RAIL ROAD

NUMBER	DATE	REVISIONS	APPROVED

TRC
1430 BROADWAY, 10TH FLOOR
NEW YORK, NEW YORK 10018
212-221-7822

MTA LONG ISLAND RAIL ROAD
MORRIS PARK AND RICHMOND HILL YARDS
RICHMOND HILL, NEW YORK

GROUNDWATER SURFACE ELEVATION CONTOURS DECEMBER 2012

PROJECT#: 185138.0000.0000		SHEET 1 OF 1	FIG.5
DRAWN:	HD	3/26/13	SCALE: AS SHOWN
CHECKED:	DSG	3/26/13	

ATTACHMENT A

New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 2
Region 2 Office
47-40 21st Street, Long Island City, NY 11101-5407
Phone: **(718) 482-4995** • Fax: **(718) 482-4098**
Website: www.dec.ny.gov

Joe Martens
Commissioner

May 4, 2012

Maria T. Hall, Assistant Project Manager
Dept. of Program Management
Long Island Rail Road
144-41 94th Avenue, MC 1913
Jamaica, NY 11435

RE: Spill #8908760	#9212990	#0205634
Richmond Hill Yard	Morris Park Yard	Holban Yard
Richmond Hill Storage	91-53 121st Street	93-59 183rd Street
Richmond Hill, NY	Richmond Hill, NY	Hollis, NY

Dear Ms. Hall:

The New York State Department of Environmental Conservation (the Department) has reviewed and approved the following documents:

- Richmond Hill Yard March 2011 Supplemental Investigation Work Plan
- Richmond Hill and Morris Park yards Quarterly Progress Report #22
- Morris Park Yard March 2011 Revised Engineering Report
- Holban Yard Quarterly Progress Report #21

In regards to the Richmond Hill Yard March Supplemental Investigation Work Plan, staff at the Department have a number of comments concerning groundwater monitoring well construction, development and sampling. These comments are listed below:

1) After a well is constructed, the Long Island Rail Road should wait at least 48 hours before developing the well. This will give the grout time to harden sufficiently;

2) Appropriate air pressure should be used to develop a well. Otherwise, the well screen may be damaged;

3) Each well must be developed sufficiently in order to ensure that accurate results are obtained;

4) After development, the wells should sit for one month in order to allow the disturbed water with its fines to pass out of the vicinity of the well screen. Then sampling may begin;

RE: Spill #8908760	#9212990	#0205634
Richmond Hill Yard	Morris Park Yard	Holban Yard
Richmond Hill Storage	91-53 121st Street	93-59 183rd Street
Richmond Hill, NY	Richmond Hill, NY	Hollis, NY
May 4, 2012		

5) The Long Island Rail Road must insure that low flow sampling take place under conditions that allow for a minimal amount of fines to be entrained in each groundwater sample in order that the results may be more accurate.

Should you have any questions or wish to discuss the matter, please feel free to contact me at (718) 482-4634.

Sincerely,

Raphael Ketani, CPG
Engineering Geologist II

Cc: Gloria Russo, MTA-LIRR; Andrew Wilson, MTA-LIRR; Hassan Hussein, NYS DEC

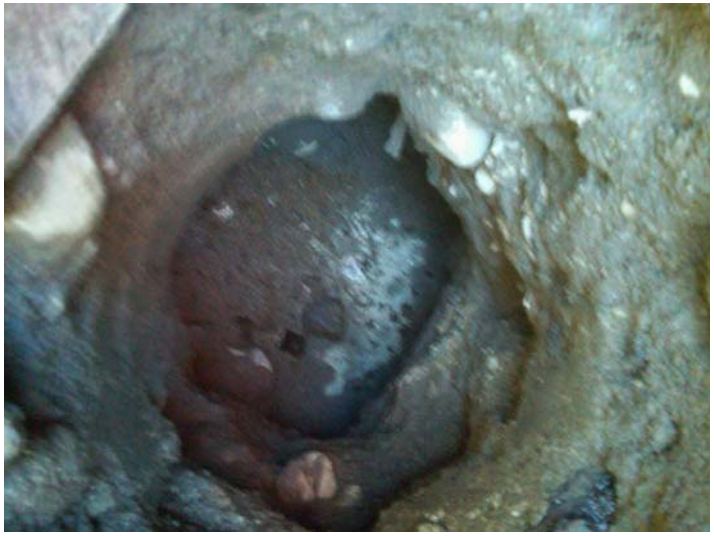
ATTACHMENT B

MTA LIRR Richmond Hill Yard Spill Case No. 89-08760
189-02 89th Avenue
Richmond Hill, NY

Photograph 1. Geophysical markout of MW-39S

Photograph 2. Concrete removal at MW-38S, note presence of rebar.

Photograph 3. Hand clearing at second attempt location for MW-38S.



Photograph 4. Subsurface structure encountered at approximately 2 feet below ground surface at second attempt location for MW-38S.

Photograph 5. Hand-clearing at third attempt location for MW-38S.

Photograph 6. Subsurface structure encountered at approximately 2 feet below ground surface at third attempt location for MW-38S.

Photograph 7. Coring at original location of MW-38S.

Photograph 8. Hand clearing at MW-39S.

Photograph 9. Advancing soil boring at MW-39S.

Photograph 10. Rebar in 10-inch coring at MW-38S.

Photograph 11. Concrete repair at MW-38S.

Photograph 12. Monitoring well installation at MW-39S.

ATTACHMENT C

TRC Engineers, Inc. 1430 Broadway, 10th Floor New York, New York 10018 Phone 212 221 7822	**BORING LOG**	**BORING MW-39S** **SHEET 1 OF 3**

JOB NAME/ CLIENT	**PROJECT NO.**	**AREA OF CONCERN**	
LIRR	178983.0000.0000	Former East Fueling Yard	
ADDRESS		**ELEVATION/DATUM**	
Richmond Hill Yard		NA	
DRILLING CONTRACTOR	**DRILLER**	**INSPECTOR**	
ADT	C. Migliore	P. Narea	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Track-mounted	4 1/4" Hollow Stem Auger	9/12/2012	9/12/2012
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH**	**WATER LEVEL**
2' Split spoon	140 lb./30 in.	53 feet bgs	50.13 feet bgs

SAMPLES					DESCRIPTION OF SOILS	REMARKS
NUMBER	RECOVERY IN FEET	BLOWS PER 6"	DEPTH	WATER	(SAA = Same As Above) f - fine m - medium c - coarse lt - light dk - dark tr - trace ltl - little	(PID, STAINING, ODORS, ETC.) FP = Free Product N/S = No Staining, N/O = No odors SO = Slight Odor, MO = Moderate Odor STO = Strong Odor
1	NA	- - - -	1			
2	NA	- - - -	3			
3	NA	- - - -	5		Hand cleared to 5' bgs.	PID = 0.0 ppm, N/S, N/O
4	0.4	5 6 3 5	7		Lt brown m-f sand, m-f gravel, tr concrete (dry) (FILL)	PID = 0.0 ppm, N/S, N/O
5	0.16	5 5 3 5	9		Lt brown c-f sand, c-f gravel (dry)	PID = 0.3 ppm, N/S, N/O
6	0.75	14 8 4 5	11		Brown c-f sand and gravel, tr asphalt (dry)	PID = 51.6 ppm, N/S, N/O
7	0.9	4 4 3 5	13		Tan c-f sand, tr gravel (dry)	PID = 28.9 ppm, N/S, N/O
8	0.25	14 5 3 3	15		Tan silt, ltl clay (dry)	PID = 0.0, N/S, N/O
9	0.5	4 4 7 4	17		Tan c-f sand, tr gravel (dry)	PID = 0.0 ppm, N/S, N/O
10	1	2 4 6 10	19		Tan silt, some clay (dry)	PID = 5.2 ppm, N/S, N/O

NA - Not available
bgs - Below ground surface
WOH - Weight of hammer

TRC Engineers, Inc. 1430 Broadway, 10th Floor New York, New York 10018 Phone 212 221 7822	**BORING LOG**	**BORING MW-39S** **SHEET 2 OF 3**

JOB NAME/ CLIENT	PROJECT NO.	AREA OF CONCERN	
LIRR	178983.0000.0000	Former East Fueling Yard	
ADDRESS		**ELEVATION/DATUM**	
Richmond Hill Yard		NA	
DRILLING CONTRACTOR	**DRILLER**	**INSPECTOR**	
ADT	C. Migliore	P. Narea	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Track-mounted	4 1/4" Hollow Stem Auger	9/12/2012	9/12/2012
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH**	**WATER LEVEL**
2' Split spoon	140 lb./30 in.	53 feet bgs	50.13 feet bgs

SAMPLES			DEPTH	WATER	DESCRIPTION OF SOILS	REMARKS
NUMBER	RECOVERY IN FEET	BLOWS PER 6"			(SAA = Same As Above) f - fine m - medium c - coarse lt - light dk - dark tr - trace ltl - little	(PID, STAINING, ODORS, ETC.) FP = Free Product N/S = No Staining, N/O = No odors SO = Slight Odor, MO = Moderate Odor STO = Strong Odor
11	1	6 8 9 10	21		Tan c-f sand, c-f gravel (dry)	PID = 0.0 ppm, N/S, N/O
12	1	19 30 20 33	23		Brown c-f sand, c-f gravel, pieces of quarts rock (dry)	PID = 58.9 ppm, N/S SO (petroleum)
13	0.25	50/5 - - -	25		Black m-f sand, tr gravel (dry)	PID = 19.2 ppm, N/S SO (petroleum)
14	1.3	8 11 17 20	27		Lt brown c-f sand, tr gravel (dry)	PID = 148 ppm, N/S, MO Samples Collected: MW-39S (25-27), DUP-1
15	1.1	10 12 18 21	29		Lt brown c-f sand, tr gravel (dry)	PID = 88.6 ppm, N/S MO (petroleum)
16	1.3	11 13 13 15	31		Lt brown c-f sand, m-f gravel (dry)	PID = 20.6 ppm, N/S SO (petroleum)
17	1.7	10 10 10 14	33		Brown-orange c-f sand, tr gravel (dry)	PID = 0.4 ppm, N/S, N/O
18	1.2	13 18 13 10	35		SAA (dry)	PID = 0.0 ppm, N/S, N/O
19	1.5	11 11 21 26	37		Brown/red c-f sand, c-f gravel (dry)	PID = 0.0 ppm, N/S, N/O
20	1.7	- - - -	39		Tan c-f sand, tr gravel (dry)	PID = 0.0 ppm, N/S, N/O

NA - Not available
bgs - Below ground surface

TRC	TRC Engineers, Inc. 1430 Broadway, 10th Floor New York, New York 10018 Phone 212 221 7822	**BORING LOG**	**BORING MW-39S** **SHEET 3 OF 3**

JOB NAME/ CLIENT	**PROJECT NO.**	**AREA OF CONCERN**	
LIRR	178983.0000.0000	Former East Fueling Yard	
ADDRESS		**ELEVATION/DATUM**	
Richmond Hill Yard		NA	
DRILLING CONTRACTOR	**DRILLER**	**INSPECTOR**	
ADT	C. Migliore	P. Narea	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Track-mounted	4 1/4" Hollow Stem Auger	9/12/2012	9/12/2012
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH**	**WATER LEVEL**
2' Split spoon	140 lb./30 in.	53 feet bgs	50.13 feet bgs

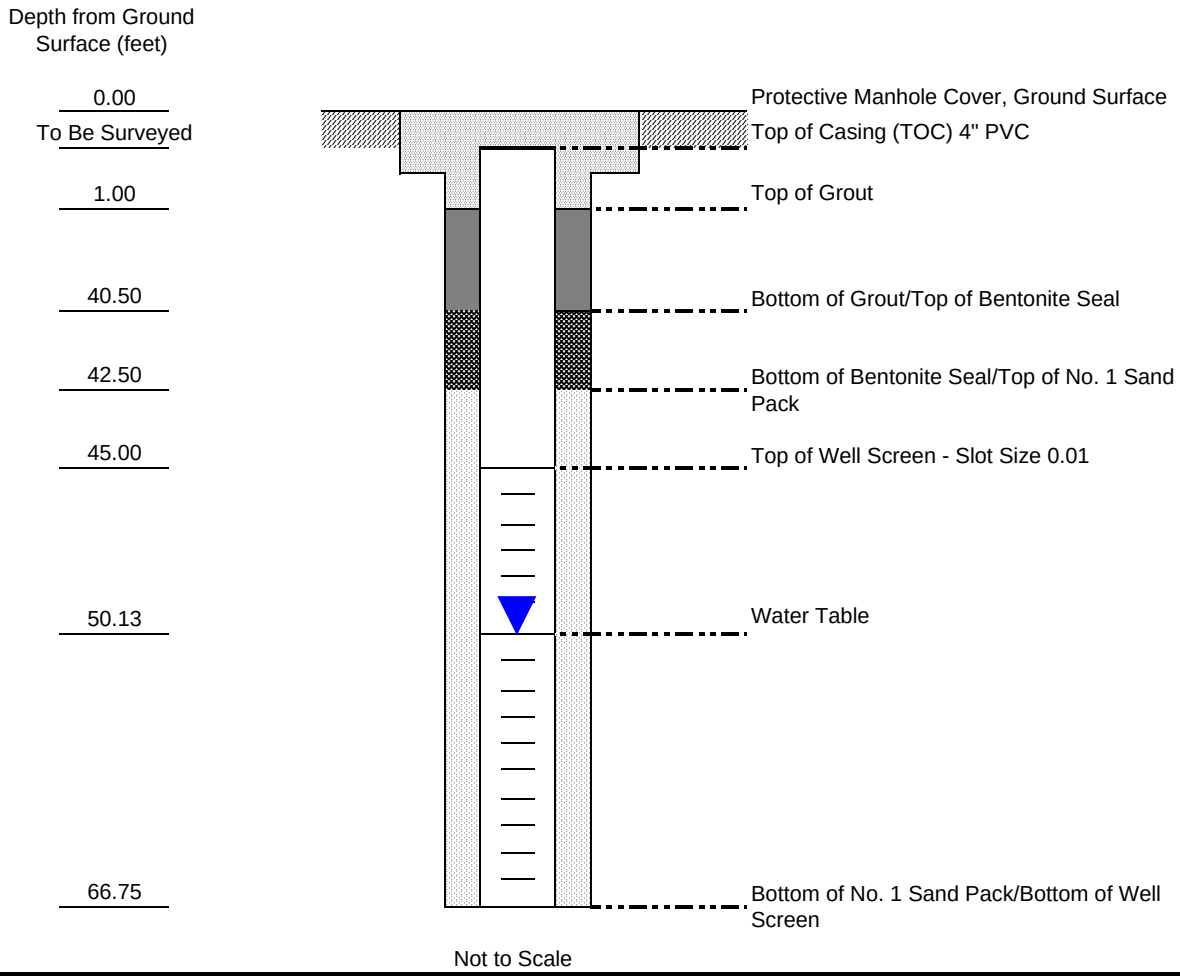
SAMPLES					DESCRIPTION OF SOILS	REMARKS
NUMBER	RECOVERY IN FEET	BLOWS PER 6"	DEPTH	WATER	(SAA = Same As Above) f - fine m - medium c - coarse lt - light dk - dark tr - trace ltl - little	(PID, STAINING, ODORS, ETC.) FP = Free Product N/S = No Staining, N/O = No odors SO = Slight Odor, MO = Moderate Odor STO = Strong Odor
21	1.3	-			SAA (dry)	PID = 0.3 ppm, N/S, N/O
		7				
		15				
		11	41			
22	1.7	7			Brown/gray c-f sand, tr gravel (dry)	PID = 0.6 ppm, N/S, N/O
		16				
		13				
		15	43			
23	1.5	WOH			Brown/orange c-f sand, tr gravel (dry)	PID = 0.0 ppm, N/S, N/O
		8				
		12				
		13	45			
24	1.5	15			SAA (dry)	PID = 0.0 ppm, N/S, N/O
		16				
		16				
		18	47			
25	2	11			SAA (dry)	PID = 0.0 ppm, N/S, N/O Sample Collected: MW-39S (47-49)
		14				
		14				
		13	49			
26	1.7	14			Gray/brown m-f sand, tr gravel (WET at 49')	PID = 0.0 ppm, N/S, N/O
		11				
		14				
		19	51			
27	1.3	8			SAA (wet)	PID = 0.0 ppm, N/S, N/O
		10				
		9				
		14	53		Boring complete at 53' bgs.	

NA - Not available
bgs - Below ground surface

ATTACHMENT D

TRC Engineers, Inc. 1430 Broadway, 10th Floor New York, New York 10018 Phone 212 221 7822	**WELL INSTALLATION LOG**	**WELL: MW-39S** **SHEET 1 OF 1**

JOB NAME:	LIRR Richmond Hill Yard	DRILLING METHOD:	Hollow Stem Auger
ADDRESS:	189-02 89th Avenue	DRILLER:	Aquifer Drilling & Testing, Inc.
	Queens, New York	INSTALLATION DATE:	9/25/2012
ELEVATION[1]:	To Be Surveyed	DEVELOPMENT DATE:	10/4/2012
INSPECTOR:	Patrick Narea	DEPTH TO WATER[1]:	50.13'
		PRODUCT THICKNESS:	None detected



Not to Scale

Notes:

[1]Feet below top of casing

ATTACHMENT E

TRC Engineers, Inc.
1430 Broadway, 10th Floor
New York, New York 10018
Phone 212 221 7822

Well Development Log

Job No.:	178983.0000.0000	**Client:**	LIRR	**Well/Boring No:**	**MW-39S**
Project Location:	Richmond Hill Yard, Queens, NY	**Developed By:**	J. Raup		
Date:	10/4/2012	**Start Time:**	9:38		

Total Depth (FT):	66.75	**Well Diameter:**	4	in.
Depth to Water (FT):	50.13	**Three Well Volumes:**	10.85	gal.
Water Column (FT):	16.62	**PID Reading:**	7.1	ppm

Purge Volumes	
Well Diameter	**Vol per Ft of WC**
2"	0.163
4"	0.653
6"	1.469

Time	Turbidity (NTU)	Temperature (°C)	Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Salinity (%)	Comments
9:38	108	19.68	2.17	8.88	4.80	323	-	
9:43	107	18.91	2.24	9.01	5.32	253	-	
9:48	55.0	17.99	2.22	9.01	5.52	205	-	
9:53	23.7	17.57	2.22	8.90	5.63	197	-	
9:58	17.50	17.45	2.20	8.61	5.74	195	-	

Total Volume Purged: 55 gal

Well Development Goals: Purge until turbidity is less than 50 NTU for three successive readings or until water quality indicators are within 10% for three successive readings. Purge a minimum of three well volumes.

ATTACHMENT F

Project:	Project No.:	Date/Time:	Sheet 1 of 1
LIRR Richmond Hill Yard	178983.0000.0000	8:30 12/12/2013	

Groundwater Sampling Data Record Form

TRC Personnel: Patrick Narea and Rachel Adams

Well Identification: MW-39S

WELL INTEGRITY

	YES	NO
Protect. Casing Secure	X	
Concrete Collar Intact	X	
PVC Stick-up Intact	X	
Well Cap Present	X	
Security Lock Present		X

Protective Casing Stick-up (ft.): NA (from Ground)

WELL DIAMETER	
	2 inch
X	4 inch
	6 inch

WELL MATERIAL

X		
PVC	SS	Steel

Reference Point:

	historical
	measured:
	notch
X	north side
	high pt
X	pen mark

Well Depth (ft.)	66.75
Depth to Water (ft)	50.54
Depth of pump (ft. TOC)	58.5
Height of water column (ft.)	16.21
Volume of Water in Well (gal)	10.5
Total Gallons Purged	3

	top of riser
X	top of casing
	_____

	.16 gal/ft (2 in.)
X	.65 gal/ft (4 in.)
	1.5 gal/ft (6 in.)
	___ gal/ft (__in.)

[Vol. = $r^2h(0.163)$]

Depth to NAPL (ft.)	ND
Thickness of NAPL (ft.)	ND

PID SCREENING (ppmV)

Background	0.1	
Well Mouth	0.4	(if required)

FIELD WATER QUALITY MEASUREMENTS

Time	9:05	9:10	9:15	9:20	9:25	9:30			
Temp. (C.)	14.76	15.28	15.46	15.52	15.55	15.55			
Conduct.(mS/cm)	1.870	1.860	1.860	1.850	1.850	1.840			
DO (mg/L)	2.83	2.52	2.40	2.29	2.28	2.39			
pH (Std.Units)	5.48	5.41	5.53	5.56	5.56	5.52			
ORP (mV)	270	271	274	275	276	278			
Turb. (NTU)	8.0	7.0	1.2	0	0	0			
DTW	50.54	50.54	50.54	50.54	50.54	50.54			
Flow (mL/min)	300	300	300	300	300	300			
Time									
Temp. (C.)									
Conduct.(mS/cm)									
DO (mg/L)									
pH (Std.Units)									
ORP (mV)									
Turb. (NTU)									
DTW									
Flow (mL/min)									

Pump Type	Purge	Sample
Peristaltic Pump		
Submersible Pump		
Bladder Pump	X	X
Other: Bailer		

Description of Sampling Equipment

Analytical Parameters	Filtered (Y/N)	Preservation	Volume/Containers	Time Collected	Sample ID
VOC	N	HCl	3 X 40 mL Vials	9:35	MW-39S
SVOC	N	Ice	2 X 1 L Ambers	9:35	MW-39S
VOC	N	HCl	3 X 40 mL Vials	9:35	DUP-3
SVOC	N	Ice	2 X 1 L Ambers	9:35	DUP-3
Fe and Mn	N	Nitric Acid	1 X 600 mL Plastic	9:35	MW-39S

NA - Not applicable

ND - Not detected

ATTACHMENT G

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

DATA PACKAGE

SEMI-VOLATILE ORGANICS
VOLATILE ORGANICS

PROJECT NAME : LIRR RICHMOND HILL

TRC COMPANIES, INC.

1430 Broadway

10th Floor

New York, NY - 10018

Phone No: 2122217822

ORDER ID : D4153

ATTENTION : Dan Warren

ACCREDITED IN ACCORDANCE WITH nelac

DoD ELAP

CHEMTECH

Table Of Contents for D4153

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

Cover Page

Order ID : D4153

Project ID : LIRR Richmond Hill

Client : TRC Companies, Inc.

Lab Sample Number	Client Sample Number
D4153-01	MW-39S(25-27)
D4153-02	MW-39S(47-49)
D4153-03	DUP-1
D4153-04	FB091212
D4153-05	TB

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 : _____ Date: 9/22/2012

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CHEMTECH

CASE NARRATIVE

TRC Companies, Inc.
Project Name: LIRR Richmond Hill
Project # N/A
Chemtech Project # D4153
Test Name: VOC-STARS

A. Number of Samples and Date of Receipt:
3 Solid samples were received on 09/12/2012.
2 Water samples were received on 09/12/2012.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Encore Kit, SVOCMS Group1, VOC-STARS and VOC-STARS. This data package contains results for VOC-STARS.

C. Analytical Techniques:
The analysis performed on instrument MSVOA_F were done using GC column RTX-VMS, which is 20 meters, 0.18 mm id, 1.0 um df, Restek Cat. #49914. The Trap was supplied by Supelco, VOCARB 3000, Tekmar 2000 Concentrator.The analysis performed on instrument MSVOA_G were done using GC column RTX-VMS which is 20 meters, 0.18 mm id, 1.0 um df, Restek Cat. #49914. The Trap was supplied by OI Analytical, OI #10 Trap , OI Eclipse 4660 Concentrator.The analysis performed on instrument MSVOA_H were done using GC column RTX-VMS which is 20 meters, 0.18 mm id, 1.0 um df, Restek Cat. #49914. The Trap was supplied BY OI Analytical, OI #10 Trap , OI Eclipse 4660 Concentrator.The analysis of VOC-STARS was based on method 8260C.

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 recoveries 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 Initial Calibration met the requirements .
The Continuous Calibration met the requirements .
The Tuning criteria met requirements.

CHEMTECH

E. Additional Comments:

F. Manual Integration Comments:

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_____

CHEMTECH

CASE NARRATIVE

TRC Companies, Inc.
Project Name: LIRR Richmond Hill
Project # N/A
Chemtech Project # D4153
Test Name: SVOCMS Group1

A. Number of Samples and Date of Receipt:
3 Solid samples were received on 09/12/2012.
2 Water samples were received on 09/12/2012.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Encore Kit, SVOCMS Group1, VOC-STARS and VOC-STARS. This data package contains results for SVOCMS Group1.

C. Analytical Techniques:
The samples were analyzed on instrument BNA_F using GC Column RTX-5 SILMS which is 20 meters, 0.18 mm ID, 0.36 um df, Catalog # 42704.The analysis of SVOCMS Group1 was based on method 8270D 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.
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 recoveries met criteria .
The Blank Spike met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .
The Continuous Calibration met the requirements .
The Tuning criteria met requirements.
Samples MW-39S(25-27), DUP-1 were diluted due to high concentrations.

E. Additional Comments:

F. Manual Integration Comments:

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_____

CHEMTECH

284 Sheffield Street Mountainside NJ 07092
Tel. 908-789-8900 Fax: 908-789-8922

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

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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: D4153

	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: HIRAL PATEL **Date:** 09/22/2012

2nd Level QA Review Signature: _____ **Date:** _____

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

LAB CHRONICLE

OrderID:	D4153	**OrderDate:**	9/12/2012 4:10:01 PM
Client:	TRC Companies, Inc.	**Project:**	LIRR Richmond Hill
Contact:	Dan Warren	**Location:**	M42

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
D4153-01	**MW-39S(25-27)**	**SOIL**			**09/12/12**			**09/12/12**
			VOC-STARS	8260C			09/20/12	
D4153-02	**MW-39S(47-49)**	**SOIL**			**09/12/12**			**09/12/12**
			VOC-STARS	8260C			09/14/12	
D4153-03	**DUP-1**	**SOIL**			**09/12/12**			**09/12/12**
			VOC-STARS	8260C			09/21/12	
D4153-04	**FB091212**	**WATER**			**09/12/12**			**09/12/12**
			VOC-STARS	8260C			09/13/12	
D4153-05	**TB**	**WATER**			**09/06/12**			**09/12/12**
			VOC-STARS	8260C			09/13/12	

CHEMTECH

Hit Summary Sheet
SW-846

SDG No.: D4153

Client: TRC Companies, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID:	**DUP-1**								
D4153-03	DUP-1	SOIL	Isopropylbenzene	51.00	J	48	265	530	ug/Kg
D4153-03	DUP-1	SOIL	n-propylbenzene	140.00	J	48	265	530	ug/Kg
D4153-03	DUP-1	SOIL	1,3,5-Trimethylbenzene	75.00	J	49	265	530	ug/Kg
D4153-03	DUP-1	SOIL	1,2,4-Trimethylbenzene	1,800.00		41	265	530	ug/Kg
D4153-03	DUP-1	SOIL	sec-Butylbenzene	430.00	J	49	265	530	ug/Kg
D4153-03	DUP-1	SOIL	p-Isopropyltoluene	5,100.00		46	265	530	ug/Kg
D4153-03	DUP-1	SOIL	n-Butylbenzene	360.00	J	44	265	530	ug/Kg
D4153-03	DUP-1	SOIL	Naphthalene	8,800.00		72	265	530	ug/Kg
			Total Voc :	**16,756.00**					
			Total Concentration:	**16,756.00**					
Client ID:	**MW-39S(25-27)**								
D4153-01	MW-39S(25-27)	SOIL	Isopropylbenzene	51.00	J	48	265	530	ug/Kg
D4153-01	MW-39S(25-27)	SOIL	n-propylbenzene	130.00	J	48	265	530	ug/Kg
D4153-01	MW-39S(25-27)	SOIL	1,3,5-Trimethylbenzene	83.00	J	49	265	530	ug/Kg
D4153-01	MW-39S(25-27)	SOIL	1,2,4-Trimethylbenzene	1,700.00		40	265	530	ug/Kg
D4153-01	MW-39S(25-27)	SOIL	sec-Butylbenzene	340.00	J	49	265	530	ug/Kg
D4153-01	MW-39S(25-27)	SOIL	p-Isopropyltoluene	5,200.00		46	265	530	ug/Kg
D4153-01	MW-39S(25-27)	SOIL	n-Butylbenzene	350.00	J	43	265	530	ug/Kg
D4153-01	MW-39S(25-27)	SOIL	Naphthalene	9,300.00		71	265	530	ug/Kg
			Total Voc :	**17,154.00**					
			Total Concentration:	**17,154.00**					

SAMPLE DATA

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	09/12/12
Project:	LIRR Richmond Hill	Date Received:	09/12/12
Client Sample ID:	MW-39S(25-27)	SDG No.:	D4153
Lab Sample ID:	D4153-01	Matrix:	SOIL
Analytical Method:	SW8260C	% Moisture:	7
Sample Wt/Vol:	5.07 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	100 uL	Test:	VOC-STARS
GC Column:	RTX-VMS ID : 0.18	Level :	MED

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VH049315.D	1		09/20/12	VH092012

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
1634-04-4	Methyl tert-butyl Ether	265	U	37	265	530	ug/Kg
71-43-2	Benzene	265	U	34	265	530	ug/Kg
108-88-3	Toluene	265	U	39	265	530	ug/Kg
100-41-4	Ethyl Benzene	265	U	56	265	530	ug/Kg
179601-23-1	m/p-Xylenes	550	U	100	550	1100	ug/Kg
95-47-6	o-Xylene	265	U	46	265	530	ug/Kg
98-82-8	Isopropylbenzene	51	J	48	265	530	ug/Kg
103-65-1	n-propylbenzene	130	J	48	265	530	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	83	J	49	265	530	ug/Kg
98-06-6	tert-Butylbenzene	265	U	47	265	530	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	1700		40	265	530	ug/Kg
135-98-8	sec-Butylbenzene	340	J	49	265	530	ug/Kg
99-87-6	p-Isopropyltoluene	5200		46	265	530	ug/Kg
104-51-8	n-Butylbenzene	350	J	43	265	530	ug/Kg
91-20-3	Naphthalene	9300		71	265	530	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	59.4		56 - 120		119%	SPK: 50
1868-53-7	Dibromofluoromethane	51.1		57 - 135		102%	SPK: 50
2037-26-5	Toluene-d8	53.6		67 - 123		107%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.4		33 - 141		101%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	175777	4.92				
540-36-3	1,4-Difluorobenzene	304773	5.63				
3114-55-4	Chlorobenzene-d5	300307	9.77				
3855-82-1	1,4-Dichlorobenzene-d4	175824	12.51				

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	09/12/12
Project:	LIRR Richmond Hill	Date Received:	09/12/12
Client Sample ID:	MW-39S(47-49)	SDG No.:	D4153
Lab Sample ID:	D4153-02	Matrix:	SOIL
Analytical Method:	SW8260C	% Moisture:	10
Sample Wt/Vol:	5.13 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-STARS
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VF035282.D	1		09/14/12	VF091412

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
1634-04-4	Methyl tert-butyl Ether	2.7	U	1	2.7	5.4	ug/Kg
71-43-2	Benzene	2.7	U	0.41	2.7	5.4	ug/Kg
108-88-3	Toluene	2.7	U	0.69	2.7	5.4	ug/Kg
100-41-4	Ethyl Benzene	2.7	U	0.67	2.7	5.4	ug/Kg
179601-23-1	m/p-Xylenes	5.5	U	0.78	5.5	11	ug/Kg
95-47-6	o-Xylene	2.7	U	0.74	2.7	5.4	ug/Kg
98-82-8	Isopropylbenzene	2.7	U	0.52	2.7	5.4	ug/Kg
103-65-1	n-propylbenzene	2.7	U	0.39	2.7	5.4	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	2.7	U	0.49	2.7	5.4	ug/Kg
98-06-6	tert-Butylbenzene	2.7	U	0.64	2.7	5.4	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	2.7	U	0.54	2.7	5.4	ug/Kg
135-98-8	sec-Butylbenzene	2.7	U	0.56	2.7	5.4	ug/Kg
99-87-6	p-Isopropyltoluene	2.7	U	0.31	2.7	5.4	ug/Kg
104-51-8	n-Butylbenzene	2.7	U	0.5	2.7	5.4	ug/Kg
91-20-3	Naphthalene	2.7	U	0.49	2.7	5.4	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	49		56 - 120		98%	SPK: 50
1868-53-7	Dibromofluoromethane	60.4		57 - 135		121%	SPK: 50
2037-26-5	Toluene-d8	48.3		67 - 123		97%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.1		33 - 141		106%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	82650	4.38				
540-36-3	1,4-Difluorobenzene	96672	5.13				
3114-55-4	Chlorobenzene-d5	101341	9.32				
3855-82-1	1,4-Dichlorobenzene-d4	60356	12.24				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	09/12/12
Project:	LIRR Richmond Hill	Date Received:	09/12/12
Client Sample ID:	DUP-1	SDG No.:	D4153
Lab Sample ID:	D4153-03	Matrix:	SOIL
Analytical Method:	SW8260C	% Moisture:	7
Sample Wt/Vol:	5.03 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	100 uL	Test:	VOC-STARS
GC Column:	RTX-VMS ID : 0.18	Level :	MED

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VH049316.D	1		09/21/12	VH092012

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
1634-04-4	Methyl tert-butyl Ether	265	U	37	265	530	ug/Kg
71-43-2	Benzene	265	U	34	265	530	ug/Kg
108-88-3	Toluene	265	U	40	265	530	ug/Kg
100-41-4	Ethyl Benzene	265	U	57	265	530	ug/Kg
179601-23-1	m/p-Xylenes	550	U	100	550	1100	ug/Kg
95-47-6	o-Xylene	265	U	46	265	530	ug/Kg
98-82-8	Isopropylbenzene	51	J	48	265	530	ug/Kg
103-65-1	n-propylbenzene	140	J	48	265	530	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	75	J	49	265	530	ug/Kg
98-06-6	tert-Butylbenzene	265	U	47	265	530	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	1800		41	265	530	ug/Kg
135-98-8	sec-Butylbenzene	430	J	49	265	530	ug/Kg
99-87-6	p-Isopropyltoluene	5100		46	265	530	ug/Kg
104-51-8	n-Butylbenzene	360	J	44	265	530	ug/Kg
91-20-3	Naphthalene	8800		72	265	530	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	48.9		56 - 120		98%	SPK: 50
1868-53-7	Dibromofluoromethane	51.2		57 - 135		102%	SPK: 50
2037-26-5	Toluene-d8	56.4		67 - 123		113%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.6		33 - 141		111%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	341461	4.91				
540-36-3	1,4-Difluorobenzene	552300	5.63				
3114-55-4	Chlorobenzene-d5	561968	9.77				
3855-82-1	1,4-Dichlorobenzene-d4	320518	12.51				

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	09/12/12
Project:	LIRR Richmond Hill	Date Received:	09/12/12
Client Sample ID:	FB091212	SDG No.:	D4153
Lab Sample ID:	D4153-04	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-STARS
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VG044144.D	1		09/13/12	VG091312

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
1634-04-4	Methyl tert-butyl Ether	2.5	U	0.35	2.5	5	ug/L
71-43-2	Benzene	2.5	U	0.32	2.5	5	ug/L
108-88-3	Toluene	2.5	U	0.37	2.5	5	ug/L
100-41-4	Ethyl Benzene	2.5	U	0.53	2.5	5	ug/L
179601-23-1	m/p-Xylenes	5	U	0.95	5	10	ug/L
95-47-6	o-Xylene	2.5	U	0.43	2.5	5	ug/L
98-82-8	Isopropylbenzene	2.5	U	0.45	2.5	5	ug/L
103-65-1	n-propylbenzene	2.5	U	0.45	2.5	5	ug/L
108-67-8	1,3,5-Trimethylbenzene	2.5	U	0.46	2.5	5	ug/L
98-06-6	tert-Butylbenzene	2.5	U	0.44	2.5	5	ug/L
95-63-6	1,2,4-Trimethylbenzene	2.5	U	0.38	2.5	5	ug/L
135-98-8	sec-Butylbenzene	2.5	U	0.46	2.5	5	ug/L
99-87-6	p-Isopropyltoluene	2.5	U	0.43	2.5	5	ug/L
104-51-8	n-Butylbenzene	2.5	U	0.41	2.5	5	ug/L
91-20-3	Naphthalene	2.5	U	0.67	2.5	5	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	52.7		61 - 141		105%	SPK: 50
1868-53-7	Dibromofluoromethane	53.9		69 - 133		108%	SPK: 50
2037-26-5	Toluene-d8	54.1		65 - 126		108%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.5		58 - 135		97%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	1044940	3.77				
540-36-3	1,4-Difluorobenzene	2230850	4.55				
3114-55-4	Chlorobenzene-d5	1699630	9.54				
3855-82-1	1,4-Dichlorobenzene-d4	605223	13.25				

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	09/06/12
Project:	LIRR Richmond Hill	Date Received:	09/12/12
Client Sample ID:	TB	SDG No.:	D4153
Lab Sample ID:	D4153-05	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-STARS
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VG044143.D	1		09/13/12	VG091312

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
1634-04-4	Methyl tert-butyl Ether	2.5	U	0.35	2.5	5	ug/L
71-43-2	Benzene	2.5	U	0.32	2.5	5	ug/L
108-88-3	Toluene	2.5	U	0.37	2.5	5	ug/L
100-41-4	Ethyl Benzene	2.5	U	0.53	2.5	5	ug/L
179601-23-1	m/p-Xylenes	5	U	0.95	5	10	ug/L
95-47-6	o-Xylene	2.5	U	0.43	2.5	5	ug/L
98-82-8	Isopropylbenzene	2.5	U	0.45	2.5	5	ug/L
103-65-1	n-propylbenzene	2.5	U	0.45	2.5	5	ug/L
108-67-8	1,3,5-Trimethylbenzene	2.5	U	0.46	2.5	5	ug/L
98-06-6	tert-Butylbenzene	2.5	U	0.44	2.5	5	ug/L
95-63-6	1,2,4-Trimethylbenzene	2.5	U	0.38	2.5	5	ug/L
135-98-8	sec-Butylbenzene	2.5	U	0.46	2.5	5	ug/L
99-87-6	p-Isopropyltoluene	2.5	U	0.43	2.5	5	ug/L
104-51-8	n-Butylbenzene	2.5	U	0.41	2.5	5	ug/L
91-20-3	Naphthalene	2.5	U	0.67	2.5	5	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	54.2		61 - 141		108%	SPK: 50
1868-53-7	Dibromofluoromethane	56.2		69 - 133		113%	SPK: 50
2037-26-5	Toluene-d8	55.4		65 - 126		111%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.5		58 - 135		103%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	1045020	3.77				
540-36-3	1,4-Difluorobenzene	2148190	4.55				
3114-55-4	Chlorobenzene-d5	1756860	9.54				
3855-82-1	1,4-Dichlorobenzene-d4	645323	13.25				

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

QC SUMMARY

Surrogate Summary

SDG No.: D4153

Client: TRC Companies, Inc.

Analytical Method: EPA SW846 8260

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits Low	Limits High
D4153-02	MW-39S(47-49)	1,2-Dichloroethane-d4	50	49.01	98		56	120
		Dibromofluoromethane	50	60.41	121		57	135
		Toluene-d8	50	48.34	97		67	123
		4-Bromofluorobenzene	50	53.13	106		33	141
D4153-04	FB091212	1,2-Dichloroethane-d4	50	52.73	105		61	141
		Dibromofluoromethane	50	53.94	108		69	133
		Toluene-d8	50	54.1	108		65	126
		4-Bromofluorobenzene	50	48.47	97		58	135
D4153-05	TB	1,2-Dichloroethane-d4	50	54.22	108		61	141
		Dibromofluoromethane	50	56.25	113		69	133
		Toluene-d8	50	55.38	111		65	126
		4-Bromofluorobenzene	50	51.5	103		58	135
D4187-01MS	HEATING-OIL-COMPOSITEWALL(6-	1,2-Dichloroethane-d4	50	54.14	108		55	158
		Dibromofluoromethane	50	59.25	119		53	156
		Toluene-d8	50	48.78	98		85	115
		4-Bromofluorobenzene	50	49.38	99		85	120
D4187-01MSD	HEATING-OIL-COMPOSITEWALL(6-	1,2-Dichloroethane-d4	50	54.62	109		55	158
		Dibromofluoromethane	50	61.54	123		53	156
		Toluene-d8	50	52.61	105		85	115
		4-Bromofluorobenzene	50	49.65	99		85	120
VF0914SBL01	VF0914SBL01	1,2-Dichloroethane-d4	50	47.01	94		55	158
		Dibromofluoromethane	50	53.2	106		53	156
		Toluene-d8	50	49.29	99		85	115
		4-Bromofluorobenzene	50	48.39	97		85	120
VF0914SBS01	VF0914SBS01	1,2-Dichloroethane-d4	50	53.91	108		55	158
		Dibromofluoromethane	50	53.91	108		53	156
		Toluene-d8	50	52.61	105		85	115
		4-Bromofluorobenzene	50	49.08	98		85	120
VG0913WBL01	VG0913WBL01	1,2-Dichloroethane-d4	50	52.41	105		70	120
		Dibromofluoromethane	50	54.47	109		85	115
		Toluene-d8	50	55.19	110		85	120
		4-Bromofluorobenzene	50	49.77	100		75	120
VG0913WBS01	VG0913WBS01	1,2-Dichloroethane-d4	50	54.7	109		70	120
		Dibromofluoromethane	50	56.69	113		85	115
		Toluene-d8	50	56.52	113		85	120
		4-Bromofluorobenzene	50	52.09	104		75	120
VG0913WBSD0	VG0913WBSD01	1,2-Dichloroethane-d4	50	54.21	108		70	120
		Dibromofluoromethane	50	55.75	112		85	115
		Toluene-d8	50	55.3	111		85	120
		4-Bromofluorobenzene	50	51.76	104		75	120

Surrogate Summary

SDG No.: D4153

Client: TRC Companies, Inc.

Analytical Method: EPA SW846 8260 - MED

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits Low	Limits High
D4153-01	MW-39S(25-27)	1,2-Dichloroethane-d4	50	59.42	119		56	120
		Dibromofluoromethane	50	51.11	102		57	135
		Toluene-d8	50	53.6	107		67	123
		4-Bromofluorobenzene	50	50.39	101		33	141
D4153-03	DUP-1	1,2-Dichloroethane-d4	50	48.87	98		56	120
		Dibromofluoromethane	50	51.24	102		57	135
		Toluene-d8	50	56.41	113		67	123
		4-Bromofluorobenzene	50	55.58	111		33	141
VH0920MBL01	VH0920MBL01	1,2-Dichloroethane-d4	50	51.05	102		56	120
		Dibromofluoromethane	50	48.55	97		57	135
		Toluene-d8	50	44.05	88		67	123
		4-Bromofluorobenzene	50	41.39	83		33	141
VH0920MBS01	VH0920MBS01	1,2-Dichloroethane-d4	50	54.99	110		56	120
		Dibromofluoromethane	50	49.01	98		57	135
		Toluene-d8	50	45.82	92		67	123
		4-Bromofluorobenzene	50	48.09	96		33	141

CHEMTECH

SOLID VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CHEMTECH **Client:** TRC Companies, Inc.

Lab Code: CHEM **Cas No:** D4153 **SAS No :** D4153 **SDG No:** D4153

Client SampleID : HEATING-OIL-COMPOSITEWA **Analytical Method:** EPA SW846 8260 **Datafile :** VF035283.D

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC#	QC LIMITS REC
Methyl tert-butyl Ether	53	0	57	108	(76-123)
Benzene	53	0	57	108	(75-125)
Toluene	53	0	53	100	(70-125)
Ethyl Benzene	53	0	56	106	(75-125)
m/p-Xylenes	106	0	110	104	(80-125)
o-Xylene	53	0	55	104	(75-125)
Isopropylbenzene	53	0	65	123	(75-130)
n-propylbenzene	53	0	63	119	(65-135)
1,3,5-Trimethylbenzene	53	0	63	119	(65-135)
tert-Butylbenzene	53	0	64	121	(65-130)
1,2,4-Trimethylbenzene	53	0	62	117	(65-135)
sec-Butylbenzene	53	0	57	108	(65-130)
p-Isopropyltoluene	53	0	62	117	(75-135)
n-Butylbenzene	53	0	55	104	(65-140)
Naphthalene	53	0	45	85	(40-125)

RPD : 0 Out of 15 outside limits

Spike Recovery : 0 Out of 15 outside limits

 # Column to be used to flag recovery and RPD values with an asterisk

*** Values outside of QC limits**

CHEMTECH

SOLID VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CHEMTECH **Client:** TRC Companies, Inc.

Lab Code: CHEM **Cas No:** D4153 **SAS No :** D4153 **SDG No:** D4153

Client SampleID : HEATING-OIL-COMPOSITEWA **Analytical Method:** EPA SW846 8260 **Datafile :** VF035284.D

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD %REC	MSD %RPD	QC LIMITS RPD	QC LIMITS REC
Methyl tert-butyl Ether	53	54	102	6	20	(76-123)
Benzene	53	55	104	4	20	(75-125)
Toluene	53	50	94	6	20	(70-125)
Ethyl Benzene	53	54	102	4	20	(75-125)
m/p-Xylenes	106	100	94	10	20	(80-125)
o-Xylene	53	50	94	10	20	(75-125)
Isopropylbenzene	53	64	121	2	20	(75-130)
n-propylbenzene	53	60	113	5	20	(65-135)
1,3,5-Trimethylbenzene	53	60	113	5	20	(65-135)
tert-Butylbenzene	53	58	109	10	20	(65-130)
1,2,4-Trimethylbenzene	53	60	113	3	20	(65-135)
sec-Butylbenzene	53	54	102	6	20	(65-130)
p-Isopropyltoluene	53	57	108	8	20	(75-135)
n-Butylbenzene	53	49	92	12	20	(65-140)
Naphthalene	53	39	74	14	20	(40-125)

RPD : 0 Out of 15 outside limits

Spike Recovery : 0 Out of 15 outside limits

 # Column to be used to flag recovery and RPD values with an asterisk

*** Values outside of QC limits**

CHEMTECH

SOIL VOLATILE LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: CHEMTECH **Client:** TRC Companies, Inc.

Lab Code: CHEM **Cas No:** D4153 **SAS No :** D4153 **SDG No:** D4153

Matrix Spike - EPA Sample No : VF0914SBS01 **Analytical Method:** EPA SW846 8260 **Datafile :** VF035262.D

COMPOUND	SPIKE ADDED (ug/Kg)	CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC#	QC LIMITS REC
Methyl tert-butyl Ether	20		21	105	(76-123)
Benzene	20		21	105	(75-125)
Toluene	20		20	100	(70-125)
Ethyl Benzene	20		21	105	(75-125)
m/p-Xylenes	40		42	105	(80-125)
o-Xylene	20		21	105	(75-125)
Isopropylbenzene	20		23	115	(75-130)
n-propylbenzene	20		22	110	(65-135)
1,3,5-Trimethylbenzene	20		22	110	(65-135)
tert-Butylbenzene	20		22	110	(65-130)
1,2,4-Trimethylbenzene	20		22	110	(65-135)
sec-Butylbenzene	20		21	105	(65-130)
p-Isopropyltoluene	20		23	115	(75-135)
n-Butylbenzene	20		23	115	(65-140)
Naphthalene	20		21	105	(40-125)

RPD : 0 Out of 15 outside limits

Spike Recovery : 0 Out of 15 outside limits

 # Column to be used to flag recovery and RPD values with an asterisk
*** Values outside of QC limits**

Comments: _____

CHEMTECH

WATER VOLATILE LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: CHEMTECH Client: TRC Companies, Inc.

Lab Code: CHEM Cas No: D4153 SAS No : D4153 SDG No: D4153

Matrix Spike - EPA Sample No : VG0913WBS01 Analytical Method: EPA SW846 8260 Datafile : VG044141.D

COMPOUND	SPIKE ADDED (ug/L)	CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC#	QC LIMITS REC
Methyl tert-butyl Ether	20		21	105	(65-125)
Benzene	20		20	100	(80-120)
Toluene	20		20	100	(75-120)
Ethyl Benzene	20		20	100	(75-125)
m/p-Xylenes	40		39	98	(75-130)
o-Xylene	20		21	105	(80-120)
Isopropylbenzene	20		21	105	(75-125)
n-propylbenzene	20		20	100	(70-130)
1,3,5-Trimethylbenzene	20		20	100	(75-130)
tert-Butylbenzene	20		20	100	(70-130)
1,2,4-Trimethylbenzene	20		20	100	(75-130)
sec-Butylbenzene	20		21	105	(70-125)
p-Isopropyltoluene	20		20	100	(75-130)
n-Butylbenzene	20		20	100	(70-135)
Naphthalene	20		19	95	(55-140)

RPD : 0 Out of 15 outside limits

Spike Recovery : 0 Out of 15 outside limits

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

Comments: _____

CHEMTECH

WATER VOLATILE LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: CHEMTECH Client: TRC Companies, Inc.

Lab Code: CHEM Cas No: D4153 SAS No : D4153 SDG No: D4153

Matrix Spike - EPA Sample No : VG0913WBSD01 Analytical Method: EPA SW846 8260 Datafile : VG044142.D

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC #	LCSD % RPD #	QC LIMITS RPD	QC LIMITS REC
Methyl tert-butyl Ether	20	21	105	0	20	(65-125)
Benzene	20	20	100	0	20	(80-120)
Toluene	20	20	100	0	20	(75-120)
Ethyl Benzene	20	20	100	0	20	(75-125)
m/p-Xylenes	40	39	98	0	20	(75-130)
o-Xylene	20	21	105	0	20	(80-120)
Isopropylbenzene	20	20	100	5	20	(75-125)
n-propylbenzene	20	21	105	5	20	(70-130)
1,3,5-Trimethylbenzene	20	20	100	0	20	(75-130)
tert-Butylbenzene	20	20	100	0	20	(70-130)
1,2,4-Trimethylbenzene	20	20	100	0	20	(75-130)
sec-Butylbenzene	20	20	100	5	20	(70-125)
p-Isopropyltoluene	20	20	100	0	20	(75-130)
n-Butylbenzene	20	20	100	0	20	(70-135)
Naphthalene	20	21	105	10	20	(55-140)

RPD : 0 Out of 15 outside limits

Spike Recovery : 0 Out of 15 outside limits

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

Comments: _____

CHEMTECH

SOIL VOLATILE LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: CHEMTECH **Client:** TRC Companies, Inc.

Lab Code: CHEM **Cas No:** D4153 **SAS No :** D4153 **SDG No:** D4153

Matrix Spike - EPA Sample No : VH0920MBS01 **Analytical Method:** EPA SW846 8260 - MED **Datafile :** VH049302.D

COMPOUND	SPIKE ADDED (ug/Kg)	CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC#	QC LIMITS REC
Methyl tert-butyl Ether	2000		2100	105	(70-131)
Benzene	2000		1900	95	(79-122)
Toluene	2000		2000	100	(78-121)
Ethyl Benzene	2000		2000	100	(77-120)
m/p-Xylenes	4000		4100	103	(78-120)
o-Xylene	2000		2000	100	(78-119)
Isopropylbenzene	2000		1900	95	(77-124)
n-propylbenzene	2000		2000	100	(77-126)
1,3,5-Trimethylbenzene	2000		2100	105	(81-122)
tert-Butylbenzene	2000		2000	100	(76-124)
1,2,4-Trimethylbenzene	2000		2100	105	(80-122)
sec-Butylbenzene	2000		2000	100	(79-124)
p-Isopropyltoluene	2000		2000	100	(78-123)
n-Butylbenzene	2000		2200	110	(77-124)
Naphthalene	2000		2100	105	(58-136)

RPD : 0 Out of 15 outside limits

Spike Recovery : 0 Out of 15 outside limits

 # Column to be used to flag recovery and RPD values with an asterisk
*** Values outside of QC limits**

Comments: _____

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VF0914SBL01

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: D4153 SAS No.: D4153 SDG NO.: D4153

Lab File ID: VF035259.D Lab Sample ID: VF0914SBL01

Date Analyzed: 09/14/2012 Time Analyzed: 12:07

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) Y

Instrument ID: MSVOA_F

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VF0914SBS01	VF0914SBS01	VF035262.D	09/14/2012
MW-39S(47-49)	D4153-02	VF035282.D	09/14/2012
HEATING-OIL-COMPOSITEWALL(6-8)MS	D4187-01MS	VF035283.D	09/14/2012
HEATING-OIL-COMPOSITEWALL(6-8)MSD	D4187-01MSD	VF035284.D	09/14/2012

COMMENTS:

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VG0913WBL01

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: D4153 SAS No.: D4153 SDG NO.: D4153

Lab File ID: VG044140.D Lab Sample ID: VG0913WBL01

Date Analyzed: 09/13/2012 Time Analyzed: 11:22

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOAG

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VG0913WBS01	VG0913WBS01	VG044141.D	09/13/2012
VG0913WBSD01	VG0913WBSD01	VG044142.D	09/13/2012
TB	D4153-05	VG044143.D	09/13/2012
FB091212	D4153-04	VG044144.D	09/13/2012

COMMENTS:

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VH0920MBL01

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: D4153 SAS No.: D4153 SDG NO.: D4153

Lab File ID: VH049299.D Lab Sample ID: VH0920MBL01

Date Analyzed: 09/20/2012 Time Analyzed: 15:05

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_H

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VH0920MBS01	VH0920MBS01	VH049302.D	09/20/2012
MW-39S(25-27)	D4153-01	VH049315.D	09/20/2012
DUP-1	D4153-03	VH049316.D	09/21/2012

COMMENTS:

CHEMTECH

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: D4153 SAS No.: D4153 SDG NO.: D4153

Lab File ID: VF035206.D BFB Injection Date: 09/12/2012

Instrument ID: MSVOA_F BFB Injection Time: 10:08

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.2
75	30.0 - 60.0% of mass 95	55.7
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	0.5 (0.6) 1
174	50.0 - 100.0% of mass 95	82.6
175	5.0 - 9.0% of mass 174	5.4 (6.5) 1
176	95.0 - 101.0% of mass 174	82.4 (99.8) 1
177	5.0 - 9.0% of mass 176	5.3 (6.4) 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
VSTDICC005	VSTDICC005	VF035207.D	09/12/2012	10:50
VSTDICC020	VSTDICC020	VF035208.D	09/12/2012	11:12
VSTDICC050	VSTDICC050	VF035209.D	09/12/2012	11:35
VSTDICC075	VSTDICC075	VF035210.D	09/12/2012	11:58
VSTDICC100	VSTDICC100	VF035211.D	09/12/2012	12:20
VSTDICC150	VSTDICC150	VF035212.D	09/12/2012	12:42

CHEMTECH

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: D4153 SAS No.: D4153 SDG NO.: D4153

Lab File ID: VF035257.D BFB Injection Date: 09/14/2012

Instrument ID: MSVOA_F BFB Injection Time: 10:04

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.4
75	30.0 - 60.0% of mass 95	54.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.3
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 100.0% of mass 95	82.8
175	5.0 - 9.0% of mass 174	6.7 (8) 1
176	95.0 - 101.0% of mass 174	81.2 (98) 1
177	5.0 - 9.0% of mass 176	4.8 (5.9) 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
VSTDCCC050	VSTDCCC050	VF035258.D	09/14/2012	11:26
VF0914SBL01	VF0914SBL01	VF035259.D	09/14/2012	12:07
VF0914SBS01	VF0914SBS01	VF035262.D	09/14/2012	13:26
MW-39S(47-49)	D4153-02	VF035282.D	09/14/2012	21:12
HEATING-OIL-COMPOSITEWALL(6-8)MS	D4187-01MS	VF035283.D	09/14/2012	21:35
HEATING-OIL-COMPOSITEWALL(6-8)MS	D4187-01MSD	VF035284.D	09/14/2012	21:57

CHEMTECH

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

A B C D E F G

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: D4153 SAS No.: D4153 SDG NO.: D4153

Lab File ID: VG044104.D BFB Injection Date: 09/07/2012

Instrument ID: MSVOAG BFB Injection Time: 13:53

GC Column: RTX-VMS 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	46.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6
173	Less than 2.0% of mass 174	0.4 (0.7) 1
174	50.0 - 100.0% of mass 95	53.9
175	5.0 - 9.0% of mass 174	3.9 (7.2) 1
176	95.0 - 101.0% of mass 174	52.6 (97.6) 1
177	5.0 - 9.0% of mass 176	2.9 (5.5) 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
VSTDICC001	VSTDICC001	VG044105.D	09/07/2012	15:24
VSTDICC005	VSTDICC005	VG044106.D	09/07/2012	15:51
VSTDICC050	VSTDICC050	VG044107.D	09/07/2012	16:47
VSTDICC100	VSTDICC100	VG044108.D	09/07/2012	17:14
VSTDICC200	VSTDICC200	VG044109.D	09/07/2012	17:42
VSTDICC020	VSTDICC020	VG044111.D	09/07/2012	19:04

CHEMTECH

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: D4153 SAS No.: D4153 SDG NO.: D4153

Lab File ID: VG044138.D BFB Injection Date: 09/13/2012

Instrument ID: MSVOAG BFB Injection Time: 09:24

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	24.4
75	30.0 - 60.0% of mass 95	47.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.3 (0.5) 1
174	50.0 - 100.0% of mass 95	51.8
175	5.0 - 9.0% of mass 174	3.6 (6.9) 1
176	95.0 - 101.0% of mass 174	49.5 (95.4) 1
177	5.0 - 9.0% of mass 176	3.2 (6.5) 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
VSTDCCC050	VSTDCCC050	VG044139.D	09/13/2012	10:09
VG0913WBL01	VG0913WBL01	VG044140.D	09/13/2012	11:22
VG0913WBS01	VG0913WBS01	VG044141.D	09/13/2012	12:05
VG0913WBSD01	VG0913WBSD01	VG044142.D	09/13/2012	12:33
TB	D4153-05	VG044143.D	09/13/2012	13:29
FB091212	D4153-04	VG044144.D	09/13/2012	13:56

CHEMTECH

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: D4153 SAS No.: D4153 SDG NO.: D4153

Lab File ID: VH049074.D BFB Injection Date: 09/13/2012

Instrument ID: MSVOA_H BFB Injection Time: 11:38

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.2
75	30.0 - 60.0% of mass 95	46.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.6 (0.7) 1
174	50.0 - 100.0% of mass 95	89.1
175	5.0 - 9.0% of mass 174	6 (6.7) 1
176	95.0 - 101.0% of mass 174	87.7 (98.4) 1
177	5.0 - 9.0% of mass 176	5.1 (5.8) 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
VSTDICC005	VSTDICC005	VH049075.D	09/13/2012	13:10
VSTDICC020	VSTDICC020	VH049076.D	09/13/2012	13:47
VSTDICC050	VSTDICC050	VH049077.D	09/13/2012	14:12
VSTDICC100	VSTDICC100	VH049078.D	09/13/2012	14:37
VSTDICC150	VSTDICC150	VH049079.D	09/13/2012	15:03
VSTDICC200	VSTDICC200	VH049080.D	09/13/2012	15:29

CHEMTECH

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: D4153 SAS No.: D4153 SDG NO.: D4153

Lab File ID: VH049297.D BFB Injection Date: 09/20/2012

Instrument ID: MSVOA_H BFB Injection Time: 13:01

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.5
75	30.0 - 60.0% of mass 95	49.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	5.6
173	Less than 2.0% of mass 174	0.1 (0.1) 1
174	50.0 - 100.0% of mass 95	92.4
175	5.0 - 9.0% of mass 174	6.4 (6.9) 1
176	95.0 - 101.0% of mass 174	89.7 (97.2) 1
177	5.0 - 9.0% of mass 176	5.6 (6.2) 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
VSTDCCC050	VSTDCCC050	VH049298.D	09/20/2012	13:41
VH0920MBL01	VH0920MBL01	VH049299.D	09/20/2012	15:05
VH0920MBS01	VH0920MBS01	VH049302.D	09/20/2012	16:25
MW-39S(25-27)	D4153-01	VH049315.D	09/20/2012	23:40
DUP-1	D4153-03	VH049316.D	09/21/2012	00:06

CHEMTECH

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: D4153 SAS No.: D4153 SDG NO.: D4153

Lab File ID: VF035258.D Date Analyzed: 09/14/2012

Instrument ID: MSVOA_F Time Analyzed: 11:26

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) Y

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	132994	4.37	173106	5.12	155566	9.32
UPPER LIMIT	265988	4.87	346212	5.62	311132	9.82
LOWER LIMIT	66497	3.87	86553	4.62	77783	8.82
EPA SAMPLE NO.						
MW-39S(47-49)	82650	4.38	96672	5.13	101341	9.32
HEATING-OIL-COMPOSITEWALL(6-8)	86936	4.37	112538	5.12	104820	9.33
HEATING-OIL-COMPOSITEWALL(6-8)	92159	4.38	118946	5.12	108490	9.33
VF0914SBL01	133857	4.38	172775	5.12	158924	9.32
VF0914SBS01	107044	4.37	149128	5.12	135644	9.32

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 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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: D4153 SAS No.: D4153 SDG NO.: D4153

Lab File ID: VF035258.D Date Analyzed: 09/14/2012

Instrument ID: MSVOA_F Time Analyzed: 11:26

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	105291	12.23				
UPPER LIMIT	210582	12.73				
LOWER LIMIT	52645.5	11.73				
EPA SAMPLE NO.						
MW-39S(47-49)	60356	12.24				
HEATING-OIL-COMPOSITEWALL(6-8	58154	12.23				
HEATING-OIL-COMPOSITEWALL(6-8	58363	12.23				
VF0914SBL01	99031	12.23				
VF0914SBS01	83584	12.23				

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 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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: D4153 SAS No.: D4153 SDG NO.: D4153

Lab File ID: VG044139.D Date Analyzed: 09/13/2012

Instrument ID: MSVOAG Time Analyzed: 10:09

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	1380045	3.78	2819042	4.55	2271513	9.54
UPPER LIMIT	2760090	4.28	5638084	5.05	4543026	10.04
LOWER LIMIT	690022.5	3.28	1409521	4.05	1135757	9.04
EPA SAMPLE NO.						
FB091212	1044942	3.77	2230851	4.55	1699632	9.54
TB	1045022	3.77	2148193	4.55	1756858	9.54
VG0913WBL01	1076121	3.77	2233449	4.55	1793290	9.54
VG0913WBS01	1276383	3.78	2659073	4.56	2064726	9.54
VG0913WBSD01	1249827	3.77	2609918	4.55	2046572	9.54

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 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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: D4153 SAS No.: D4153 SDG NO.: D4153

Lab File ID: VG044139.D Date Analyzed: 09/13/2012

Instrument ID: MSVOAG Time Analyzed: 10:09

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	883069	13.25				
UPPER LIMIT	1766138	13.75				
LOWER LIMIT	441534.5	12.75				
EPA SAMPLE NO.						
FB091212	605223	13.25				
TB	645323	13.25				
VG0913WBL01	642953	13.25				
VG0913WBS01	812346	13.26				
VG0913WBSD01	806499	13.25				

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 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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: D4153 SAS No.: D4153 SDG NO.: D4153

Lab File ID: VH049298.D Date Analyzed: 09/20/2012

Instrument ID: MSVOA_H Time Analyzed: 13:41

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	177661	4.92	303986	5.64	296025	9.77
UPPER LIMIT	355322	5.42	607972	6.14	592050	10.27
LOWER LIMIT	88830.5	4.42	151993	5.14	148012.5	9.27
EPA SAMPLE NO.						
MW-39S(25-27)	175777	4.92	304773	5.63	300307	9.77
DUP-1	341461	4.91	552300	5.63	561968	9.77
VH0920MBL01	191949	4.92	330672	5.64	307128	9.77
VH0920MBS01	169141	4.93	292441	5.64	281775	9.78

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 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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: D4153 SAS No.: D4153 SDG NO.: D4153

Lab File ID: VH049298.D Date Analyzed: 09/20/2012

Instrument ID: MSVOA_H Time Analyzed: 13:41

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	177045	12.51				
UPPER LIMIT	354090	13.01				
LOWER LIMIT	88522.5	12.01				
EPA SAMPLE NO.						
MW-39S(25-27)	175824	12.51				
DUP-1	320518	12.51				
VH0920MBL01	154465	12.51				
VH0920MBS01	169828	12.51				

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 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

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	LIRR Richmond Hill	Date Received:	
Client Sample ID:	VF0914SBL01	SDG No.:	D4153
Lab Sample ID:	VF0914SBL01	Matrix:	SOIL
Analytical Method:	SW8260C	% Moisture:	0
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-STARS
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VF035259.D	1		09/14/12	VF091412

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
1634-04-4	Methyl tert-butyl Ether	2.5	U	0.96	2.5	5	ug/Kg
71-43-2	Benzene	2.5	U	0.38	2.5	5	ug/Kg
108-88-3	Toluene	2.5	U	0.64	2.5	5	ug/Kg
100-41-4	Ethyl Benzene	2.5	U	0.62	2.5	5	ug/Kg
179601-23-1	m/p-Xylenes	5	U	0.72	5	10	ug/Kg
95-47-6	o-Xylene	2.5	U	0.68	2.5	5	ug/Kg
98-82-8	Isopropylbenzene	2.5	U	0.48	2.5	5	ug/Kg
103-65-1	n-propylbenzene	2.5	U	0.36	2.5	5	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	2.5	U	0.45	2.5	5	ug/Kg
98-06-6	tert-Butylbenzene	2.5	U	0.59	2.5	5	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	2.5	U	0.5	2.5	5	ug/Kg
135-98-8	sec-Butylbenzene	2.5	U	0.52	2.5	5	ug/Kg
99-87-6	p-Isopropyltoluene	2.5	U	0.29	2.5	5	ug/Kg
104-51-8	n-Butylbenzene	2.5	U	0.46	2.5	5	ug/Kg
91-20-3	Naphthalene	2.5	U	0.45	2.5	5	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	47		55 - 158		94%	SPK: 50
1868-53-7	Dibromofluoromethane	53.2		53 - 156		106%	SPK: 50
2037-26-5	Toluene-d8	49.3		85 - 115		99%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.4		85 - 120		97%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	133857	4.38				
540-36-3	1,4-Difluorobenzene	172775	5.12				
3114-55-4	Chlorobenzene-d5	158924	9.32				
3855-82-1	1,4-Dichlorobenzene-d4	99031	12.23				

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	LIRR Richmond Hill	Date Received:	
Client Sample ID:	VG0913WBL01	SDG No.:	D4153
Lab Sample ID:	VG0913WBL01	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-STARS
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VG044140.D	1		09/13/12	VG091312

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
1634-04-4	Methyl tert-butyl Ether	2.5	U	0.35	2.5	5	ug/L
71-43-2	Benzene	2.5	U	0.32	2.5	5	ug/L
108-88-3	Toluene	2.5	U	0.37	2.5	5	ug/L
100-41-4	Ethyl Benzene	2.5	U	0.53	2.5	5	ug/L
179601-23-1	m/p-Xylenes	5	U	0.95	5	10	ug/L
95-47-6	o-Xylene	2.5	U	0.43	2.5	5	ug/L
98-82-8	Isopropylbenzene	2.5	U	0.45	2.5	5	ug/L
103-65-1	n-propylbenzene	2.5	U	0.45	2.5	5	ug/L
108-67-8	1,3,5-Trimethylbenzene	2.5	U	0.46	2.5	5	ug/L
98-06-6	tert-Butylbenzene	2.5	U	0.44	2.5	5	ug/L
95-63-6	1,2,4-Trimethylbenzene	2.5	U	0.38	2.5	5	ug/L
135-98-8	sec-Butylbenzene	2.5	U	0.46	2.5	5	ug/L
99-87-6	p-Isopropyltoluene	2.5	U	0.43	2.5	5	ug/L
104-51-8	n-Butylbenzene	2.5	U	0.41	2.5	5	ug/L
91-20-3	Naphthalene	2.5	U	0.67	2.5	5	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	52.4		70 - 120		105%	SPK: 50
1868-53-7	Dibromofluoromethane	54.5		85 - 115		109%	SPK: 50
2037-26-5	Toluene-d8	55.2		85 - 120		110%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.8		75 - 120		100%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	1076120	3.77				
540-36-3	1,4-Difluorobenzene	2233450	4.55				
3114-55-4	Chlorobenzene-d5	1793290	9.54				
3855-82-1	1,4-Dichlorobenzene-d4	642953	13.25				

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	LIRR Richmond Hill	Date Received:	
Client Sample ID:	VH0920MBL01	SDG No.:	D4153
Lab Sample ID:	VH0920MBL01	Matrix:	SOIL
Analytical Method:	SW8260C	% Moisture:	0
Sample Wt/Vol:	5 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	100 uL	Test:	VOC-STARS
GC Column:	RTX-VMS ID : 0.18	Level :	MED

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VH049299.D	1		09/20/12	VH092012

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
1634-04-4	Methyl tert-butyl Ether	250	U	35	250	500	ug/Kg
71-43-2	Benzene	250	U	32	250	500	ug/Kg
108-88-3	Toluene	250	U	37	250	500	ug/Kg
100-41-4	Ethyl Benzene	250	U	53	250	500	ug/Kg
179601-23-1	m/p-Xylenes	500	U	95	500	1000	ug/Kg
95-47-6	o-Xylene	250	U	43	250	500	ug/Kg
98-82-8	Isopropylbenzene	250	U	45	250	500	ug/Kg
103-65-1	n-propylbenzene	250	U	45	250	500	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	250	U	46	250	500	ug/Kg
98-06-6	tert-Butylbenzene	250	U	44	250	500	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	250	U	38	250	500	ug/Kg
135-98-8	sec-Butylbenzene	250	U	46	250	500	ug/Kg
99-87-6	p-Isopropyltoluene	250	U	43	250	500	ug/Kg
104-51-8	n-Butylbenzene	250	U	41	250	500	ug/Kg
91-20-3	Naphthalene	250	U	67	250	500	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	51		56 - 120		102%	SPK: 50
1868-53-7	Dibromofluoromethane	48.6		57 - 135		97%	SPK: 50
2037-26-5	Toluene-d8	44		67 - 123		88%	SPK: 50
460-00-4	4-Bromofluorobenzene	41.4		33 - 141		83%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	191949	4.92				
540-36-3	1,4-Difluorobenzene	330672	5.64				
3114-55-4	Chlorobenzene-d5	307128	9.77				
3855-82-1	1,4-Dichlorobenzene-d4	154465	12.51				

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	LIRR Richmond Hill	Date Received:	
Client Sample ID:	VF0914SBS01	SDG No.:	D4153
Lab Sample ID:	VF0914SBS01	Matrix:	SOIL
Analytical Method:	SW8260C	% Moisture:	0
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-STARS
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VF035262.D	1		09/14/12	VF091412

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
1634-04-4	Methyl tert-butyl Ether	21		0.96	2.5	5	ug/Kg
71-43-2	Benzene	21		0.38	2.5	5	ug/Kg
108-88-3	Toluene	20		0.64	2.5	5	ug/Kg
100-41-4	Ethyl Benzene	21		0.62	2.5	5	ug/Kg
179601-23-1	m/p-Xylenes	42		0.72	5	10	ug/Kg
95-47-6	o-Xylene	21		0.68	2.5	5	ug/Kg
98-82-8	Isopropylbenzene	23		0.48	2.5	5	ug/Kg
103-65-1	n-propylbenzene	22		0.36	2.5	5	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	22		0.45	2.5	5	ug/Kg
98-06-6	tert-Butylbenzene	22		0.59	2.5	5	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	22		0.5	2.5	5	ug/Kg
135-98-8	sec-Butylbenzene	21		0.52	2.5	5	ug/Kg
99-87-6	p-Isopropyltoluene	23		0.29	2.5	5	ug/Kg
104-51-8	n-Butylbenzene	23		0.46	2.5	5	ug/Kg
91-20-3	Naphthalene	21		0.45	2.5	5	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	53.9		55 - 158		108%	SPK: 50
1868-53-7	Dibromofluoromethane	53.9		53 - 156		108%	SPK: 50
2037-26-5	Toluene-d8	52.6		85 - 115		105%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.1		85 - 120		98%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	107044	4.37				
540-36-3	1,4-Difluorobenzene	149128	5.12				
3114-55-4	Chlorobenzene-d5	135644	9.32				
3855-82-1	1,4-Dichlorobenzene-d4	83584	12.23				

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	LIRR Richmond Hill	Date Received:	
Client Sample ID:	VG0913WBS01	SDG No.:	D4153
Lab Sample ID:	VG0913WBS01	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-STARS
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VG044141.D	1		09/13/12	VG091312

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
1634-04-4	Methyl tert-butyl Ether	21		0.35	2.5	5	ug/L
71-43-2	Benzene	20		0.32	2.5	5	ug/L
108-88-3	Toluene	20		0.37	2.5	5	ug/L
100-41-4	Ethyl Benzene	20		0.53	2.5	5	ug/L
179601-23-1	m/p-Xylenes	39		0.95	5	10	ug/L
95-47-6	o-Xylene	21		0.43	2.5	5	ug/L
98-82-8	Isopropylbenzene	21		0.45	2.5	5	ug/L
103-65-1	n-propylbenzene	20		0.45	2.5	5	ug/L
108-67-8	1,3,5-Trimethylbenzene	20		0.46	2.5	5	ug/L
98-06-6	tert-Butylbenzene	20		0.44	2.5	5	ug/L
95-63-6	1,2,4-Trimethylbenzene	20		0.38	2.5	5	ug/L
135-98-8	sec-Butylbenzene	21		0.46	2.5	5	ug/L
99-87-6	p-Isopropyltoluene	20		0.43	2.5	5	ug/L
104-51-8	n-Butylbenzene	20		0.41	2.5	5	ug/L
91-20-3	Naphthalene	19		0.67	2.5	5	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	54.7		70 - 120		109%	SPK: 50
1868-53-7	Dibromofluoromethane	56.7		85 - 115		113%	SPK: 50
2037-26-5	Toluene-d8	56.5		85 - 120		113%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.1		75 - 120		104%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	1276380	3.78				
540-36-3	1,4-Difluorobenzene	2659070	4.56				
3114-55-4	Chlorobenzene-d5	2064730	9.54				
3855-82-1	1,4-Dichlorobenzene-d4	812346	13.26				

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	LIRR Richmond Hill	Date Received:	
Client Sample ID:	VH0920MBS01	SDG No.:	D4153
Lab Sample ID:	VH0920MBS01	Matrix:	SOIL
Analytical Method:	SW8260C	% Moisture:	0
Sample Wt/Vol:	5 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	100 uL	Test:	VOC-STARS
GC Column:	RTX-VMS ID : 0.18	Level :	MED

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VH049302.D	1		09/20/12	VH092012

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
1634-04-4	Methyl tert-butyl Ether	2100		35	250	500	ug/Kg
71-43-2	Benzene	1900		32	250	500	ug/Kg
108-88-3	Toluene	2000		37	250	500	ug/Kg
100-41-4	Ethyl Benzene	2000		53	250	500	ug/Kg
179601-23-1	m/p-Xylenes	4100		95	500	1000	ug/Kg
95-47-6	o-Xylene	2000		43	250	500	ug/Kg
98-82-8	Isopropylbenzene	1900		45	250	500	ug/Kg
103-65-1	n-propylbenzene	2000		45	250	500	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	2100		46	250	500	ug/Kg
98-06-6	tert-Butylbenzene	2000		44	250	500	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	2100		38	250	500	ug/Kg
135-98-8	sec-Butylbenzene	2000		46	250	500	ug/Kg
99-87-6	p-Isopropyltoluene	2000		43	250	500	ug/Kg
104-51-8	n-Butylbenzene	2200		41	250	500	ug/Kg
91-20-3	Naphthalene	2100		67	250	500	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	55		56 - 120		110%	SPK: 50
1868-53-7	Dibromofluoromethane	49		57 - 135		98%	SPK: 50
2037-26-5	Toluene-d8	45.8		67 - 123		92%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.1		33 - 141		96%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	169141	4.93				
540-36-3	1,4-Difluorobenzene	292441	5.64				
3114-55-4	Chlorobenzene-d5	281775	9.78				
3855-82-1	1,4-Dichlorobenzene-d4	169828	12.51				

U = Not Detected
LOQ = Limit of Quantitation
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LOD = Limit of Detection
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J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	LIRR Richmond Hill	Date Received:	
Client Sample ID:	VG0913WBSD01	SDG No.:	D4153
Lab Sample ID:	VG0913WBSD01	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-STARS
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VG044142.D	1		09/13/12	VG091312

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
1634-04-4	Methyl tert-butyl Ether	21		0.35	2.5	5	ug/L
71-43-2	Benzene	20		0.32	2.5	5	ug/L
108-88-3	Toluene	20		0.37	2.5	5	ug/L
100-41-4	Ethyl Benzene	20		0.53	2.5	5	ug/L
179601-23-1	m/p-Xylenes	39		0.95	5	10	ug/L
95-47-6	o-Xylene	21		0.43	2.5	5	ug/L
98-82-8	Isopropylbenzene	20		0.45	2.5	5	ug/L
103-65-1	n-propylbenzene	21		0.45	2.5	5	ug/L
108-67-8	1,3,5-Trimethylbenzene	20		0.46	2.5	5	ug/L
98-06-6	tert-Butylbenzene	20		0.44	2.5	5	ug/L
95-63-6	1,2,4-Trimethylbenzene	20		0.38	2.5	5	ug/L
135-98-8	sec-Butylbenzene	20		0.46	2.5	5	ug/L
99-87-6	p-Isopropyltoluene	20		0.43	2.5	5	ug/L
104-51-8	n-Butylbenzene	20		0.41	2.5	5	ug/L
91-20-3	Naphthalene	21		0.67	2.5	5	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	54.2		70 - 120		108%	SPK: 50
1868-53-7	Dibromofluoromethane	55.8		85 - 115		112%	SPK: 50
2037-26-5	Toluene-d8	55.3		85 - 120		111%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.8		75 - 120		104%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	1249830	3.77				
540-36-3	1,4-Difluorobenzene	2609920	4.55				
3114-55-4	Chlorobenzene-d5	2046570	9.54				
3855-82-1	1,4-Dichlorobenzene-d4	806499	13.25				

U = Not Detected
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B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
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D = Dilution

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	09/13/12
Project:	LIRR Richmond Hill	Date Received:	09/14/12
Client Sample ID:	HEATING-OIL-COMPOSITEWALL(6-8)MS	SDG No.:	D4153
Lab Sample ID:	D4187-01MS	Matrix:	SOIL
Analytical Method:	SW8260C	% Moisture:	6
Sample Wt/Vol:	5.01 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-STARS
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VF035283.D	1		09/14/12	VF091412

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
1634-04-4	Methyl tert-butyl Ether	57		1	2.65	5.3	ug/Kg
71-43-2	Benzene	57		0.4	2.65	5.3	ug/Kg
108-88-3	Toluene	53		0.68	2.65	5.3	ug/Kg
100-41-4	Ethyl Benzene	56		0.66	2.65	5.3	ug/Kg
179601-23-1	m/p-Xylenes	110		0.76	5.5	11	ug/Kg
95-47-6	o-Xylene	55		0.72	2.65	5.3	ug/Kg
98-82-8	Isopropylbenzene	65		0.51	2.65	5.3	ug/Kg
103-65-1	n-propylbenzene	63		0.38	2.65	5.3	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	63		0.48	2.65	5.3	ug/Kg
98-06-6	tert-Butylbenzene	64		0.63	2.65	5.3	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	62		0.53	2.65	5.3	ug/Kg
135-98-8	sec-Butylbenzene	57		0.55	2.65	5.3	ug/Kg
99-87-6	p-Isopropyltoluene	62		0.31	2.65	5.3	ug/Kg
104-51-8	n-Butylbenzene	55		0.49	2.65	5.3	ug/Kg
91-20-3	Naphthalene	45		0.48	2.65	5.3	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	54.1		55 - 158		108%	SPK: 50
1868-53-7	Dibromofluoromethane	59.2		53 - 156		119%	SPK: 50
2037-26-5	Toluene-d8	48.8		85 - 115		98%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.4		85 - 120		99%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	86936	4.37				
540-36-3	1,4-Difluorobenzene	112538	5.12				
3114-55-4	Chlorobenzene-d5	104820	9.33				
3855-82-1	1,4-Dichlorobenzene-d4	58154	12.23				

U = Not Detected
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Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	09/13/12
Project:	LIRR Richmond Hill	Date Received:	09/14/12
Client Sample ID:	HEATING-OIL-COMPOSITEWALL(6-8)MSD	SDG No.:	D4153
Lab Sample ID:	D4187-01MSD	Matrix:	SOIL
Analytical Method:	SW8260C	% Moisture:	6
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-STARS
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VF035284.D	1		09/14/12	VF091412

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
1634-04-4	Methyl tert-butyl Ether	54		1	2.65	5.3	ug/Kg
71-43-2	Benzene	55		0.4	2.65	5.3	ug/Kg
108-88-3	Toluene	50		0.68	2.65	5.3	ug/Kg
100-41-4	Ethyl Benzene	54		0.66	2.65	5.3	ug/Kg
179601-23-1	m/p-Xylenes	100		0.77	5.5	11	ug/Kg
95-47-6	o-Xylene	50		0.72	2.65	5.3	ug/Kg
98-82-8	Isopropylbenzene	64		0.51	2.65	5.3	ug/Kg
103-65-1	n-propylbenzene	60		0.38	2.65	5.3	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	60		0.48	2.65	5.3	ug/Kg
98-06-6	tert-Butylbenzene	58		0.63	2.65	5.3	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	60		0.53	2.65	5.3	ug/Kg
135-98-8	sec-Butylbenzene	54		0.55	2.65	5.3	ug/Kg
99-87-6	p-Isopropyltoluene	57		0.31	2.65	5.3	ug/Kg
104-51-8	n-Butylbenzene	49		0.49	2.65	5.3	ug/Kg
91-20-3	Naphthalene	39		0.48	2.65	5.3	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	54.6		55 - 158		109%	SPK: 50
1868-53-7	Dibromofluoromethane	61.5		53 - 156		123%	SPK: 50
2037-26-5	Toluene-d8	52.6		85 - 115		105%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.6		85 - 120		99%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	92159	4.38				
540-36-3	1,4-Difluorobenzene	118946	5.12				
3114-55-4	Chlorobenzene-d5	108490	9.33				
3855-82-1	1,4-Dichlorobenzene-d4	58363	12.23				

U = Not Detected
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CALIBRATION SUMMURY

CHEMTECH

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: D4153 SAS No.: D4153 SDG No.: D4153

Instrument ID: MSVOA_F Calibration Date(s): 09/12/2012 09/12/2012

Heated Purge: (Y/N) Y Calibration Time(s): 10:50 12:42

GC Column: RTX-VMS ID: 0.18 (mm)

LAB FILE ID: RRF005 = VF035207.D RRF020 = VF035208.D RRF050 = VF035209.D
RRF075 = VF035210.D RRF100 = VF035211.D RRF150 = VF035212.D

COMPOUND	RRF005	RRF020	RRF050	RRF075	RRF100	RRF150	$\overline{RRF}$	% RSD
Methyl tert-butyl Ether	1.233	1.222	1.471	1.296	1.241	1.249	1.285	7.4
Benzene	1.024	0.964	1.007	1.008	0.934	0.972	0.985	3.5
Toluene	0.776	0.735	0.804	0.773	0.726	0.739	0.759	4
Ethyl Benzene	1.896	1.919	1.982	1.892	1.868	1.810	1.894	3
m/p-Xylenes	0.753	0.690	0.742	0.679	0.688	0.652	0.701	5.6
o-Xylene	0.748	0.703	0.773	0.692	0.709	0.689	0.719	4.7
Isopropylbenzene	3.490	3.334	3.773	3.596	3.484	3.440	3.519	4.3
n-propylbenzene	4.179	3.885	4.142	4.020	3.898	3.816	3.99	3.7
1,3,5-Trimethylbenzene	3.109	3.029	3.234	3.057	3.043	2.997	3.078	2.8
tert-Butylbenzene	3.347	2.998	3.290	3.100	3.027	3.007	3.128	4.9
1,2,4-Trimethylbenzene	3.206	3.009	3.343	3.097	3.065	3.018	3.123	4.1
sec-Butylbenzene	4.364	4.038	4.224	4.004	3.885	3.812	4.055	5.1
p-Isopropyltoluene	3.514	3.384	3.682	3.398	3.268	3.194	3.407	5.1
n-Butylbenzene	3.236	3.060	3.273	3.162	3.079	3.004	3.135	3.4
Naphthalene	1.154	1.251	1.454	1.355	1.139	1.258	1.268	9.5
1,2-Dichloroethane-d4	0.701	0.636	0.782	0.707	0.648	0.668	0.69	7.7
Dibromofluoromethane	0.478	0.434	0.459	0.478	0.433	0.434	0.453	4.8
Toluene-d8	1.103	1.037	1.071	1.091	1.014	1.021	1.056	3.6
4-Bromofluorobenzene	0.639	0.573	0.609	0.606	0.524	0.506	0.576	9

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

CHEMTECH

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: D4153 SAS No.: D4153 SDG No.: D4153

Instrument ID: MSVOAG Calibration Date(s): 09/07/2012 09/07/2012

Heated Purge: (Y/N) N Calibration Time(s): 15:24 19:04

GC Column: RTX-VMS ID: 0.18 (mm)

LAB FILE ID: RRF005 = VG044106.D RRF001 = VG044105.D RRF020 = VG044111.D
RRF050 = VG044107.D RRF100 = VG044108.D RRF200 = VG044109.D

COMPOUND	RRF005	RRF001	RRF020	RRF050	RRF100	RRF200	$\overline{RRF}$	% RSD
Methyl tert-butyl Ether	1.816	2.371	1.726	1.722	1.659	1.372	1.778	18.5
Benzene	1.371	1.769	1.344	1.279	1.233	0.997	1.332	18.9
Toluene	0.756	0.962	0.794	0.747	0.758	0.680	0.783	12.2
Ethyl Benzene	1.897	2.361	1.796	1.810	1.603	1.111	1.763	23.1
m/p-Xylenes	0.707	0.766	0.695	0.687	0.641	0.470	0.661	15.4
o-Xylene	0.661	0.766	0.681	0.686	0.669	0.578	0.673	8.9
Isopropylbenzene	4.610	5.715	4.387	4.223	3.891	2.746	4.262	22.7
n-propylbenzene	6.048	7.205	5.640	5.267	4.521	2.960	5.274	27.3
1,3,5-Trimethylbenzene	3.447	4.119	3.400	3.279	3.071	2.262	3.263	18.5
tert-Butylbenzene	3.312	4.129	3.286	3.149	3.031	2.406	3.219	17.3
1,2,4-Trimethylbenzene	3.717	4.224	3.514	3.259	3.056	2.289	3.343	19.6
sec-Butylbenzene	4.854	5.857	4.577	4.388	3.953	2.662	4.382	24.1
p-Isopropyltoluene	3.485	4.068	3.369	3.334	3.119	2.338	3.285	17.1
n-Butylbenzene	3.918	4.707	3.615	3.596	3.362	2.306	3.584	21.8
Naphthalene	2.171	2.773	2.404	2.359	2.489	2.027	2.37	10.9
1,2-Dichloroethane-d4	0.858	1.294	0.769	0.788	0.791	0.690	0.865	25.1
Dibromofluoromethane	0.377	0.553	0.401	0.374	0.396	0.354	0.409	17.7
Toluene-d8	0.961	1.333	1.079	0.951	0.995	0.853	1.029	16.1
4-Bromofluorobenzene	0.383	0.608	0.431	0.399	0.421	0.396	0.44	19.1

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

CHEMTECH

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: D4153 SAS No.: D4153 SDG No.: D4153

Instrument ID: MSVOA_H Calibration Date(s): 09/13/2012 09/13/2012

Heated Purge: (Y/N) N Calibration Time(s): 13:10 15:29

GC Column: RTX-VMS ID: 0.18 (mm)

LAB FILE ID: RRF005 = VH049075.D RRF020 = VH049076.D RRF050 = VH049077.D
RRF100 = VH049078.D RRF150 = VH049079.D RRF200 = VH049080.D

COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF150	RRF200	$\overline{RRF}$	% RSD
Methyl tert-butyl Ether	1.276	1.499	1.508	1.655	1.819	1.566	1.554	11.6
Benzene	1.131	1.232	1.308	1.208	1.275	1.252	1.234	5
Toluene	0.625	0.788	0.797	0.792	0.836	0.816	0.776	9.8
Ethyl Benzene	0.418	0.452	0.473	0.440	0.459	0.443	0.447	4.2
m/p-Xylenes	0.503	0.575	0.610	0.569	0.609	0.572	0.573	6.8
o-Xylene	0.509	0.619	0.655	0.583	0.609	0.584	0.593	8.3
Isopropylbenzene	2.079	2.533	2.501	2.573	2.793	2.635	2.519	9.5
n-propylbenzene	2.554	3.055	3.016	3.041	3.195	3.045	2.984	7.4
1,3,5-Trimethylbenzene	1.692	2.036	2.061	2.039	2.141	2.036	2.001	7.8
tert-Butylbenzene	1.642	2.094	2.044	2.095	2.236	2.083	2.032	10
1,2,4-Trimethylbenzene	1.868	2.217	2.238	2.144	2.293	2.201	2.16	7
sec-Butylbenzene	2.011	2.361	2.368	2.379	2.421	2.271	2.302	6.5
p-Isopropyltoluene	1.773	1.948	2.041	1.957	1.904	1.860	1.914	4.8
n-Butylbenzene	1.635	1.762	1.795	1.785	1.897	1.750	1.771	4.8
Naphthalene	1.339	1.895	1.950	1.845	1.946	1.828	1.801	12.9
1,2-Dichloroethane-d4	0.668	0.597	0.663	0.649	0.633	0.620	0.638	4.3
Dibromofluoromethane	0.423	0.416	0.435	0.417	0.434	0.428	0.426	1.9
Toluene-d8	1.015	0.991	1.100	1.065	1.120	1.082	1.062	4.7
4-Bromofluorobenzene	0.419	0.440	0.530	0.495	0.488	0.473	0.474	8.4

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

CHEMTECH

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: D4153 SAS No.: D4153 SDG No.: D4153

Instrument ID: MSVOA_F Calibration Date/Time: 09/14/2012 11:26

Lab File ID: VF035258.D Init. Calib. Date(s): 09/12/2012 09/12/2012

Heated Purge: (Y/N) Y Init. Calib. Time(s): 10:50 12:42

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Methyl tert-butyl Ether	1.285	1.438		11.91	
Benzene	0.985	0.973		-1.22	
Toluene	0.759	0.693		-8.7	20
Ethyl Benzene	1.894	1.774		-6.34	20
m/p-Xylenes	0.701	0.665		-5.14	
o-Xylene	0.719	0.690		-4.03	
Isopropylbenzene	3.519	3.070		-12.76	
n-propylbenzene	3.99	3.467		-13.11	
1,3,5-Trimethylbenzene	3.078	2.729		-11.34	
tert-Butylbenzene	3.128	2.785		-10.97	
1,2,4-Trimethylbenzene	3.123	2.712		-13.16	
sec-Butylbenzene	4.055	3.416		-15.76	
p-Isopropyltoluene	3.407	3.037		-10.86	
n-Butylbenzene	3.135	2.716		-13.37	
Naphthalene	1.268	1.176		-7.26	
1,2-Dichloroethane-d4	0.69	0.735		6.52	
Dibromofluoromethane	0.453	0.508		12.14	
Toluene-d8	1.056	1.054		-0.19	
4-Bromofluorobenzene	0.576	0.567		-1.56	

All other compounds must meet a minimum RRF of 0.010.

CHEMTECH

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: D4153 SAS No.: D4153 SDG No.: D4153

Instrument ID: MSVOAG Calibration Date/Time: 09/13/2012 10:09

Lab File ID: VG044139.D Init. Calib. Date(s): 09/07/2012 09/07/2012

Heated Purge: (Y/N) N Init. Calib. Time(s): 15:24 19:04

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Methyl tert-butyl Ether	1.778	1.784		0.34	
Benzene	1.332	1.362		2.25	
Toluene	0.783	0.794		1.4	20
Ethyl Benzene	1.763	1.853		5.1	20
m/p-Xylenes	0.661	0.704		6.51	
o-Xylene	0.673	0.707		5.05	
Isopropylbenzene	4.262	4.600		7.93	
n-propylbenzene	5.274	5.700		8.08	
1,3,5-Trimethylbenzene	3.263	3.507		7.48	
tert-Butylbenzene	3.219	3.310		2.83	
1,2,4-Trimethylbenzene	3.343	3.496		4.58	
sec-Butylbenzene	4.382	4.711		7.51	
p-Isopropyltoluene	3.285	3.398		3.44	
n-Butylbenzene	3.584	3.776		5.36	
Naphthalene	2.37	2.195		-7.38	
1,2-Dichloroethane-d4	0.865	0.835		-3.47	
Dibromofluoromethane	0.409	0.416		1.71	
Toluene-d8	1.029	1.059		2.92	
4-Bromofluorobenzene	0.44	0.442		0.45	

All other compounds must meet a minimum RRF of 0.010.

CHEMTECH

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: D4153 SAS No.: D4153 SDG No.: D4153

Instrument ID: MSVOA_H Calibration Date/Time: 09/20/2012 13:41

Lab File ID: VH049298.D Init. Calib. Date(s): 09/13/2012 09/13/2012

Heated Purge: (Y/N) N Init. Calib. Time(s): 13:10 15:29

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Methyl tert-butyl Ether	1.554	1.618		4.12	
Benzene	1.234	1.220		-1.13	
Toluene	0.776	0.754		-2.84	20
Ethyl Benzene	0.447	0.474		6.04	20
m/p-Xylenes	0.573	0.589		2.79	
o-Xylene	0.593	0.641		8.09	
Isopropylbenzene	2.519	2.659		5.56	
n-propylbenzene	2.984	3.038		1.81	
1,3,5-Trimethylbenzene	2.001	2.038		1.85	
tert-Butylbenzene	2.032	2.184		7.48	
1,2,4-Trimethylbenzene	2.16	2.341		8.38	
sec-Butylbenzene	2.302	2.473		7.43	
p-Isopropyltoluene	1.914	2.198		14.84	
n-Butylbenzene	1.771	2.000		12.93	
Naphthalene	1.801	1.955		8.55	
1,2-Dichloroethane-d4	0.638	0.742		16.3	
Dibromofluoromethane	0.426	0.463		8.69	
Toluene-d8	1.062	1.042		-1.88	
4-Bromofluorobenzene	0.474	0.490		3.38	

All other compounds must meet a minimum RRF of 0.010.

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LAB CHRONICLE

OrderID:	D4153	**OrderDate:**	9/12/2012 4:10:01 PM
Client:	TRC Companies, Inc.	**Project:**	LIRR Richmond Hill
Contact:	Dan Warren	**Location:**	M42

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
D4153-01	**MW-39S(25-27)**	**SOIL**			**09/12/12**			**09/12/12**
			SVOCMS Group1	8270D		09/13/12	09/14/12	
D4153-01DL	**MW-39S(25-27)DL**	**SOIL**			**09/12/12**			**09/12/12**
			SVOCMS Group1	8270D		09/13/12	09/17/12	
D4153-02	**MW-39S(47-49)**	**SOIL**			**09/12/12**			**09/12/12**
			SVOCMS Group1	8270D		09/13/12	09/14/12	
D4153-03	**DUP-1**	**SOIL**			**09/12/12**			**09/12/12**
			SVOCMS Group1	8270D		09/13/12	09/14/12	
D4153-03DL	**DUP-1DL**	**SOIL**			**09/12/12**			**09/12/12**
			SVOCMS Group1	8270D		09/13/12	09/17/12	
D4153-04	**FB091212**	**WATER**			**09/12/12**			**09/12/12**
			SVOCMS Group1	8270D		09/13/12	09/14/12	

CHEMTECH

Hit Summary Sheet
SW-846

SDG No.: D4153

Client: TRC Companies, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : DUP-1									
D4153-03	DUP-1	SOIL	Acenaphthene	2,000.000		10	175	350	ug/Kg
D4153-03	DUP-1	SOIL	Fluorene	4,000.000	E	14	175	350	ug/Kg
D4153-03	DUP-1	SOIL	Phenanthrene	7,100.000	E	9.6	175	350	ug/Kg
D4153-03	DUP-1	SOIL	Anthracene	1,100.000		7.3	175	350	ug/Kg
D4153-03	DUP-1	SOIL	Fluoranthene	420.000		7.2	175	350	ug/Kg
D4153-03	DUP-1	SOIL	Pyrene	1,500.000		8.6	175	350	ug/Kg
			Total Svoc :	**16,120.00**					
			Total Concentration:	**16,120.00**					
Client ID : DUP-1DL									
D4153-03DL	DUP-1DL	SOIL	Acenaphthene	2,600.000	D	50	900	1800	ug/Kg
D4153-03DL	DUP-1DL	SOIL	Fluorene	4,800.000	D	68	900	1800	ug/Kg
D4153-03DL	DUP-1DL	SOIL	Phenanthrene	8,800.000	D	48	900	1800	ug/Kg
D4153-03DL	DUP-1DL	SOIL	Anthracene	1,100.000	JD	36	900	1800	ug/Kg
D4153-03DL	DUP-1DL	SOIL	Pyrene	1,800.000	D	43	900	1800	ug/Kg
			Total Svoc :	**19,100.00**					
			Total Concentration:	**19,100.00**					
Client ID : MW-39S(25-27)									
D4153-01	MW-39S(25-27)	SOIL	Acenaphthene	1,800.000		10	175	350	ug/Kg
D4153-01	MW-39S(25-27)	SOIL	Fluorene	3,500.000	E	14	175	350	ug/Kg
D4153-01	MW-39S(25-27)	SOIL	Phenanthrene	7,100.000	E	9.7	175	350	ug/Kg
D4153-01	MW-39S(25-27)	SOIL	Anthracene	1,000.000		7.3	175	350	ug/Kg
D4153-01	MW-39S(25-27)	SOIL	Fluoranthene	420.000		7.2	175	350	ug/Kg
D4153-01	MW-39S(25-27)	SOIL	Pyrene	1,500.000		8.6	175	350	ug/Kg
			Total Svoc :	**15,320.00**					
			Total Concentration:	**15,320.00**					
Client ID : MW-39S(25-27)DL									
D4153-01DL	MW-39S(25-27)DL	SOIL	Acenaphthene	2,600.000	D	50	900	1800	ug/Kg
D4153-01DL	MW-39S(25-27)DL	SOIL	Fluorene	4,700.000	D	68	900	1800	ug/Kg
D4153-01DL	MW-39S(25-27)DL	SOIL	Phenanthrene	9,300.000	D	48	900	1800	ug/Kg
D4153-01DL	MW-39S(25-27)DL	SOIL	Anthracene	1,100.000	JD	36	900	1800	ug/Kg
D4153-01DL	MW-39S(25-27)DL	SOIL	Pyrene	1,800.000	D	43	900	1800	ug/Kg
			Total Svoc :	**19,500.00**					
			Total Concentration:	**19,500.00**					

SAMPLE DATA

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	09/12/12
Project:	LIRR Richmond Hill	Date Received:	09/12/12
Client Sample ID:	MW-39S(25-27)	SDG No.:	D4153
Lab Sample ID:	D4153-01	Matrix:	SOIL
Analytical Method:	SW8270D	% Moisture:	7
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	SOXH Decanted : N	Level :	LOW
Injection Volume :	1 GPC Factor : 1.0	GPC Cleanup :	N PH : N/A

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF058626.D	1	09/13/12	09/14/12	PB65675

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
208-96-8	Acenaphthylene	175	U	9	175	350	ug/Kg
83-32-9	Acenaphthene	1800		10	175	350	ug/Kg
86-73-7	Fluorene	3500	E	14	175	350	ug/Kg
85-01-8	Phenanthrene	7100	E	9.7	175	350	ug/Kg
120-12-7	Anthracene	1000		7.3	175	350	ug/Kg
206-44-0	Fluoranthene	420		7.2	175	350	ug/Kg
129-00-0	Pyrene	1500		8.6	175	350	ug/Kg
56-55-3	Benzo(a)anthracene	175	U	17	175	350	ug/Kg
218-01-9	Chrysene	175	U	16	175	350	ug/Kg
205-99-2	Benzo(b)fluoranthene	175	U	12	175	350	ug/Kg
207-08-9	Benzo(k)fluoranthene	175	U	17	175	350	ug/Kg
50-32-8	Benzo(a)pyrene	175	U	7.7	175	350	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	175	U	12	175	350	ug/Kg
53-70-3	Dibenz(a,h)anthracene	175	U	10	175	350	ug/Kg
191-24-2	Benzo(g,h,i)perylene	175	U	14	175	350	ug/Kg
SURROGATES							
4165-60-0	Nitrobenzene-d5	79.1		31 - 132		79%	SPK: 100
321-60-8	2-Fluorobiphenyl	60.1		39 - 123		60%	SPK: 100
1718-51-0	Terphenyl-d14	67.2		37 - 115		67%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	125653	4.86				
1146-65-2	Naphthalene-d8	379312	6.35				
15067-26-2	Acenaphthene-d10	208847	8.13				
1517-22-2	Phenanthrene-d10	315555	10.04				
1719-03-5	Chrysene-d12	331919	14.02				
1520-96-3	Perylene-d12	325340	16.1				

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Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	09/12/12
Project:	LIRR Richmond Hill	Date Received:	09/12/12
Client Sample ID:	MW-39S(25-27)	SDG No.:	D4153
Lab Sample ID:	D4153-01	Matrix:	SOIL
Analytical Method:	SW8270D	% Moisture:	7
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	SOXH Decanted : N	Level :	LOW
Injection Volume :	1 GPC Factor : 1.0	GPC Cleanup :	N PH : N/A

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF058626.D	1	09/13/12	09/14/12	PB65675

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	09/12/12
Project:	LIRR Richmond Hill	Date Received:	09/12/12
Client Sample ID:	MW-39S(25-27)DL	SDG No.:	D4153
Lab Sample ID:	D4153-01DL	Matrix:	SOIL
Analytical Method:	SW8270D	% Moisture:	7
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	SOXH Decanted : N	Level :	LOW
Injection Volume :	1 GPC Factor : 1.0	GPC Cleanup :	N PH : N/A

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF058670.D	5	09/13/12	09/17/12	PB65675

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
208-96-8	Acenaphthylene	900	UD	45	900	1800	ug/Kg
83-32-9	Acenaphthene	2600	D	50	900	1800	ug/Kg
86-73-7	Fluorene	4700	D	68	900	1800	ug/Kg
85-01-8	Phenanthrene	9300	D	48	900	1800	ug/Kg
120-12-7	Anthracene	1100	JD	36	900	1800	ug/Kg
206-44-0	Fluoranthene	900	UD	36	900	1800	ug/Kg
129-00-0	Pyrene	1800	D	43	900	1800	ug/Kg
56-55-3	Benzo(a)anthracene	900	UD	85	900	1800	ug/Kg
218-01-9	Chrysene	900	UD	81	900	1800	ug/Kg
205-99-2	Benzo(b)fluoranthene	900	UD	59	900	1800	ug/Kg
207-08-9	Benzo(k)fluoranthene	900	UD	84	900	1800	ug/Kg
50-32-8	Benzo(a)pyrene	900	UD	39	900	1800	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	UD	60	900	1800	ug/Kg
53-70-3	Dibenz(a,h)anthracene	900	UD	52	900	1800	ug/Kg
191-24-2	Benzo(g,h,i)perylene	900	UD	72	900	1800	ug/Kg
SURROGATES							
4165-60-0	Nitrobenzene-d5	90.8		31 - 132		91%	SPK: 100
321-60-8	2-Fluorobiphenyl	90.2		39 - 123		90%	SPK: 100
1718-51-0	Terphenyl-d14	80.7		37 - 115		81%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	134705	4.82				
1146-65-2	Naphthalene-d8	415091	6.32				
15067-26-2	Acenaphthene-d10	195947	8.08				
1517-22-2	Phenanthrene-d10	332988	9.97				
1719-03-5	Chrysene-d12	302863	13.97				
1520-96-3	Perylene-d12	286105	16.07				

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Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	09/12/12
Project:	LIRR Richmond Hill	Date Received:	09/12/12
Client Sample ID:	MW-39S(25-27)DL	SDG No.:	D4153
Lab Sample ID:	D4153-01DL	Matrix:	SOIL
Analytical Method:	SW8270D	% Moisture:	7
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	SOXH Decanted : N	Level :	LOW
Injection Volume :	1 GPC Factor : 1.0	GPC Cleanup :	N PH : N/A

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF058670.D	5	09/13/12	09/17/12	PB65675

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	09/12/12
Project:	LIRR Richmond Hill	Date Received:	09/12/12
Client Sample ID:	MW-39S(47-49)	SDG No.:	D4153
Lab Sample ID:	D4153-02	Matrix:	SOIL
Analytical Method:	SW8270D	% Moisture:	10
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	SOXH Decanted : N	Level :	LOW
Injection Volume :	1 GPC Factor : 1.0	GPC Cleanup :	N PH : N/A

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF058627.D	1	09/13/12	09/14/12	PB65675

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
208-96-8	Acenaphthylene	185	U	9.3	185	370	ug/Kg
83-32-9	Acenaphthene	185	U	10	185	370	ug/Kg
86-73-7	Fluorene	185	U	14	185	370	ug/Kg
85-01-8	Phenanthrene	185	U	10	185	370	ug/Kg
120-12-7	Anthracene	185	U	7.5	185	370	ug/Kg
206-44-0	Fluoranthene	185	U	7.4	185	370	ug/Kg
129-00-0	Pyrene	185	U	8.9	185	370	ug/Kg
56-55-3	Benzo(a)anthracene	185	U	18	185	370	ug/Kg
218-01-9	Chrysene	185	U	17	185	370	ug/Kg
205-99-2	Benzo(b)fluoranthene	185	U	12	185	370	ug/Kg
207-08-9	Benzo(k)fluoranthene	185	U	17	185	370	ug/Kg
50-32-8	Benzo(a)pyrene	185	U	8	185	370	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	185	U	12	185	370	ug/Kg
53-70-3	Dibenz(a,h)anthracene	185	U	11	185	370	ug/Kg
191-24-2	Benzo(g,h,i)perylene	185	U	15	185	370	ug/Kg
SURROGATES							
4165-60-0	Nitrobenzene-d5	67.6		31 - 132		68%	SPK: 100
321-60-8	2-Fluorobiphenyl	76.8		39 - 123		77%	SPK: 100
1718-51-0	Terphenyl-d14	73.9		37 - 115		74%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	145385	4.85				
1146-65-2	Naphthalene-d8	526408	6.34				
15067-26-2	Acenaphthene-d10	269848	8.09				
1517-22-2	Phenanthrene-d10	460411	9.98				
1719-03-5	Chrysene-d12	397847	14				
1520-96-3	Perylene-d12	361023	16.1				

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Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	09/12/12
Project:	LIRR Richmond Hill	Date Received:	09/12/12
Client Sample ID:	MW-39S(47-49)	SDG No.:	D4153
Lab Sample ID:	D4153-02	Matrix:	SOIL
Analytical Method:	SW8270D	% Moisture:	10
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	SOXH Decanted : N	Level :	LOW
Injection Volume :	1 GPC Factor : 1.0	GPC Cleanup :	N PH : N/A

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF058627.D	1	09/13/12	09/14/12	PB65675

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	09/12/12
Project:	LIRR Richmond Hill	Date Received:	09/12/12
Client Sample ID:	DUP-1	SDG No.:	D4153
Lab Sample ID:	D4153-03	Matrix:	SOIL
Analytical Method:	SW8270D	% Moisture:	7
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	SOXH Decanted : N	Level :	LOW
Injection Volume :	1 GPC Factor : 1.0	GPC Cleanup :	N PH : N/A

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF058628.D	1	09/13/12	09/14/12	PB65675

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
208-96-8	Acenaphthylene	175	U	9	175	350	ug/Kg
83-32-9	Acenaphthene	2000		10	175	350	ug/Kg
86-73-7	Fluorene	4000	E	14	175	350	ug/Kg
85-01-8	Phenanthrene	7100	E	9.6	175	350	ug/Kg
120-12-7	Anthracene	1100		7.3	175	350	ug/Kg
206-44-0	Fluoranthene	420		7.2	175	350	ug/Kg
129-00-0	Pyrene	1500		8.6	175	350	ug/Kg
56-55-3	Benzo(a)anthracene	175	U	17	175	350	ug/Kg
218-01-9	Chrysene	175	U	16	175	350	ug/Kg
205-99-2	Benzo(b)fluoranthene	175	U	12	175	350	ug/Kg
207-08-9	Benzo(k)fluoranthene	175	U	17	175	350	ug/Kg
50-32-8	Benzo(a)pyrene	175	U	7.7	175	350	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	175	U	12	175	350	ug/Kg
53-70-3	Dibenz(a,h)anthracene	175	U	10	175	350	ug/Kg
191-24-2	Benzo(g,h,i)perylene	175	U	14	175	350	ug/Kg
SURROGATES							
4165-60-0	Nitrobenzene-d5	90.5		31 - 132		90%	SPK: 100
321-60-8	2-Fluorobiphenyl	78.2		39 - 123		78%	SPK: 100
1718-51-0	Terphenyl-d14	80.6		37 - 115		81%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	124800	4.86				
1146-65-2	Naphthalene-d8	363075	6.35				
15067-26-2	Acenaphthene-d10	182190	8.13				
1517-22-2	Phenanthrene-d10	310853	10.04				
1719-03-5	Chrysene-d12	319094	14.02				
1520-96-3	Perylene-d12	312713	16.1				

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Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	09/12/12
Project:	LIRR Richmond Hill	Date Received:	09/12/12
Client Sample ID:	DUP-1	SDG No.:	D4153
Lab Sample ID:	D4153-03	Matrix:	SOIL
Analytical Method:	SW8270D	% Moisture:	7
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	SOXH Decanted : N	Level :	LOW
Injection Volume :	1 GPC Factor : 1.0	GPC Cleanup :	N PH : N/A

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF058628.D	1	09/13/12	09/14/12	PB65675

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	09/12/12
Project:	LIRR Richmond Hill	Date Received:	09/12/12
Client Sample ID:	DUP-1DL	SDG No.:	D4153
Lab Sample ID:	D4153-03DL	Matrix:	SOIL
Analytical Method:	SW8270D	% Moisture:	7
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	SOXH Decanted : N	Level :	LOW
Injection Volume :	1 GPC Factor : 1.0	GPC Cleanup :	N PH : N/A

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF058672.D	5	09/13/12	09/17/12	PB65675

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
208-96-8	Acenaphthylene	900	UD	45	900	1800	ug/Kg
83-32-9	Acenaphthene	2600	D	50	900	1800	ug/Kg
86-73-7	Fluorene	4800	D	68	900	1800	ug/Kg
85-01-8	Phenanthrene	8800	D	48	900	1800	ug/Kg
120-12-7	Anthracene	1100	JD	36	900	1800	ug/Kg
206-44-0	Fluoranthene	900	UD	36	900	1800	ug/Kg
129-00-0	Pyrene	1800	D	43	900	1800	ug/Kg
56-55-3	Benzo(a)anthracene	900	UD	85	900	1800	ug/Kg
218-01-9	Chrysene	900	UD	81	900	1800	ug/Kg
205-99-2	Benzo(b)fluoranthene	900	UD	58	900	1800	ug/Kg
207-08-9	Benzo(k)fluoranthene	900	UD	84	900	1800	ug/Kg
50-32-8	Benzo(a)pyrene	900	UD	39	900	1800	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	900	UD	59	900	1800	ug/Kg
53-70-3	Dibenz(a,h)anthracene	900	UD	51	900	1800	ug/Kg
191-24-2	Benzo(g,h,i)perylene	900	UD	72	900	1800	ug/Kg
SURROGATES							
4165-60-0	Nitrobenzene-d5	96.7		31 - 132		97%	SPK: 100
321-60-8	2-Fluorobiphenyl	98.3		39 - 123		98%	SPK: 100
1718-51-0	Terphenyl-d14	91.4		37 - 115		91%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	140013	4.82				
1146-65-2	Naphthalene-d8	421345	6.32				
15067-26-2	Acenaphthene-d10	197810	8.08				
1517-22-2	Phenanthrene-d10	338850	9.97				
1719-03-5	Chrysene-d12	302282	13.98				
1520-96-3	Perylene-d12	287912	16.06				

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Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	09/12/12
Project:	LIRR Richmond Hill	Date Received:	09/12/12
Client Sample ID:	DUP-1DL	SDG No.:	D4153
Lab Sample ID:	D4153-03DL	Matrix:	SOIL
Analytical Method:	SW8270D	% Moisture:	7
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	SOXH Decanted : N	Level :	LOW
Injection Volume :	1 GPC Factor : 1.0	GPC Cleanup :	N PH : N/A

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF058672.D	5	09/13/12	09/17/12	PB65675

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	09/12/12
Project:	LIRR Richmond Hill	Date Received:	09/12/12
Client Sample ID:	FB091212	SDG No.:	D4153
Lab Sample ID:	D4153-04	Matrix:	WATER
Analytical Method:	SW8270D	% Moisture:	100
Sample Wt/Vol:	910 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	SEPF Decanted : N	Level :	LOW
Injection Volume :	1 GPC Factor : 1.0	GPC Cleanup :	N PH : 5

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF058629.D	1	09/13/12	09/14/12	PB65670

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
208-96-8	Acenaphthylene	5.5	U	0.77	5.5	11	ug/L
83-32-9	Acenaphthene	5.5	U	0.23	5.5	11	ug/L
86-73-7	Fluorene	5.5	U	0.34	5.5	11	ug/L
85-01-8	Phenanthrene	5.5	U	0.29	5.5	11	ug/L
120-12-7	Anthracene	5.5	U	0.18	5.5	11	ug/L
206-44-0	Fluoranthene	5.5	U	0.44	5.5	11	ug/L
129-00-0	Pyrene	5.5	U	0.22	5.5	11	ug/L
56-55-3	Benzo(a)anthracene	5.5	U	0.18	5.5	11	ug/L
218-01-9	Chrysene	5.5	U	0.2	5.5	11	ug/L
205-99-2	Benzo(b)fluoranthene	5.5	U	0.32	5.5	11	ug/L
207-08-9	Benzo(k)fluoranthene	5.5	U	0.2	5.5	11	ug/L
50-32-8	Benzo(a)pyrene	5.5	U	0.15	5.5	11	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.5	U	0.16	5.5	11	ug/L
53-70-3	Dibenz(a,h)anthracene	5.5	U	0.46	5.5	11	ug/L
191-24-2	Benzo(g,h,i)perylene	5.5	U	0.32	5.5	11	ug/L
SURROGATES							
4165-60-0	Nitrobenzene-d5	85.7		36 - 131		86%	SPK: 100
321-60-8	2-Fluorobiphenyl	98.6		39 - 131		99%	SPK: 100
1718-51-0	Terphenyl-d14	100		23 - 130		101%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	142500	4.86				
1146-65-2	Naphthalene-d8	517799	6.34				
15067-26-2	Acenaphthene-d10	268319	8.09				
1517-22-2	Phenanthrene-d10	481534	9.98				
1719-03-5	Chrysene-d12	421076	14				
1520-96-3	Perylene-d12	376501	16.1				

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Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	09/12/12
Project:	LIRR Richmond Hill	Date Received:	09/12/12
Client Sample ID:	FB091212	SDG No.:	D4153
Lab Sample ID:	D4153-04	Matrix:	WATER
Analytical Method:	SW8270D	% Moisture:	100
Sample Wt/Vol:	910 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	SEPF Decanted : N	Level :	LOW
Injection Volume :	1 GPC Factor : 1.0	GPC Cleanup :	N PH : 5

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF058629.D	1	09/13/12	09/14/12	PB65670

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

QC SUMMARY

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Surrogate Summary

SW-846

SDG No.: D4153

Client: TRC Companies, Inc.

Analytical Method: EPA SW-846 8270

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
D4140-04MS	SS-1MS	Nitrobenzene-d5	100	85.20	85		36	131
		2-Fluorobiphenyl	100	91.92	92		39	131
		Terphenyl-d14	100	97.73	98		23	130
D4140-04MSD	SS-1MSD	Nitrobenzene-d5	100	84.98	85		36	131
		2-Fluorobiphenyl	100	90.72	91		39	131
		Terphenyl-d14	100	97.40	97		23	130
D4153-04	FB091212	Nitrobenzene-d5	100	85.69	86		36	131
		2-Fluorobiphenyl	100	98.58	99		39	131
		Terphenyl-d14	100	100.67	101		23	130
PB65670BL	PB65670BL	Nitrobenzene-d5	100	70.94	71		36	131
		2-Fluorobiphenyl	100	78.25	78		39	131
		Terphenyl-d14	100	80.93	81		23	130
PB65670BS	PB65670BS	Nitrobenzene-d5	100	74.82	75		36	131
		2-Fluorobiphenyl	100	77.99	78		39	131
		Terphenyl-d14	100	80.70	81		23	130

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Surrogate Summary

SW-846

SDG No.: D4153

Client: TRC Companies, Inc.

Analytical Method: EPA SW-846 8270

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
D4153-01	MW-39S(25-27)	Nitrobenzene-d5	100	79.14	79		31	132
		2-Fluorobiphenyl	100	60.13	60		39	123
		Terphenyl-d14	100	67.17	67		37	115
D4153-01DL	MW-39S(25-27)DL	Nitrobenzene-d5	100	90.80	91		31	132
		2-Fluorobiphenyl	100	90.15	90		39	123
		Terphenyl-d14	100	80.70	81		37	115
D4153-02	MW-39S(47-49)	Nitrobenzene-d5	100	67.58	68		31	132
		2-Fluorobiphenyl	100	76.75	77		39	123
		Terphenyl-d14	100	73.86	74		37	115
D4153-02MS	MW-39S(47-49)MS	Nitrobenzene-d5	100	63.74	64		31	132
		2-Fluorobiphenyl	100	71.72	72		39	123
		Terphenyl-d14	100	67.60	68		37	115
D4153-02MSD	MW-39S(47-49)MSD	Nitrobenzene-d5	100	71.81	72		31	132
		2-Fluorobiphenyl	100	75.74	76		39	123
		Terphenyl-d14	100	72.42	72		37	115
D4153-03	DUP-1	Nitrobenzene-d5	100	90.49	90		31	132
		2-Fluorobiphenyl	100	78.18	78		39	123
		Terphenyl-d14	100	80.65	81		37	115
D4153-03DL	DUP-1DL	Nitrobenzene-d5	100	96.70	97		31	132
		2-Fluorobiphenyl	100	98.30	98		39	123
		Terphenyl-d14	100	91.45	91		37	115
PB65675BL	PB65675BL	Nitrobenzene-d5	100	69.53	70		31	132
		2-Fluorobiphenyl	100	77.00	77		39	123
		Terphenyl-d14	100	77.04	77		37	115
PB65675BS	PB65675BS	Nitrobenzene-d5	100	68.32	68		31	132
		2-Fluorobiphenyl	100	71.91	72		39	123
		Terphenyl-d14	100	69.91	70		37	115

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Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: D4153

Client: TRC Companies, Inc.

Analytical Method: EPA SW-846 8270

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: D4153-02MS		**Client Sample ID: MW-39S(47-49)MS**									
Acenaphthylene	1900	0	1200		63				45	117	
Acenaphthene	1900	0	1200		63				45	118	
Fluorene	1900	0	1200		63				41	121	
Phenanthrene	1900	0	1100		58				29	138	
Anthracene	1900	0	1200		63				45	120	
Fluoranthene	1900	0	1200		63				33	133	
Pyrene	1900	0	1100		58				31	135	
Benzo(a)anthracene	1900	0	1200		63				35	132	
Chrysene	1900	0	1100		58				34	131	
Benzo(b)fluoranthene	1900	0	1200		63				35	128	
Benzo(k)fluoranthene	1900	0	1100		58				39	117	
Benzo(a)pyrene	1900	0	1200		63				35	129	
Indeno(1,2,3-cd)pyrene	1900	0	1300		68				30	140	
Dibenz(a,h)anthracene	1900	0	1300		68				18	147	
Benzo(g,h,i)perylene	1900	0	1200		63				31	132	

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Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: D4153

Client: TRC Companies, Inc.

Analytical Method: EPA SW-846 8270

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: D4153-02MSD		**Client Sample ID:**	**MW-39S(47-49)MSD**								
Acenaphthylene	1900	0	1300		68		8		45	117	20
Acenaphthene	1900	0	1300		68		8		45	118	20
Fluorene	1900	0	1300		68		8		41	121	20
Phenanthrene	1900	0	1300		68		16		29	138	20
Anthracene	1900	0	1300		68		8		45	120	20
Fluoranthene	1900	0	1300		68		8		33	133	20
Pyrene	1900	0	1300		68		16		31	135	20
Benzo(a)anthracene	1900	0	1400		74		16		35	132	20
Chrysene	1900	0	1300		68		16		34	131	20
Benzo(b)fluoranthene	1900	0	1400		74		16		35	128	20
Benzo(k)fluoranthene	1900	0	1200		63		8		39	117	20
Benzo(a)pyrene	1900	0	1400		74		16		35	129	20
Indeno(1,2,3-cd)pyrene	1900	0	1500		79		15		30	140	20
Dibenz(a,h)anthracene	1900	0	1400		74		8		18	147	20
Benzo(g,h,i)perylene	1900	0	1400		74		16		31	132	20

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Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: D4153

Client: TRC Companies, Inc.

Analytical Method: EPA SW-846 8270

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: D4140-04MS	**Client Sample ID: SS-1MS**										
Acenaphthylene	500	0	420		84				40	141	
Acenaphthene	500	0	430		86				37	146	
Fluorene	500	0	440		88				39	144	
Phenanthrene	500	0	430		86				40	147	
Anthracene	500	0	440		88				41	146	
Fluoranthene	500	0	440		88				42	146	
Pyrene	500	0	430		86				41	149	
Benzo(a)anthracene	500	0	470		94				41	147	
Chrysene	500	0	440		88				44	144	
Benzo(b)fluoranthene	500	0	470		94				40	150	
Benzo(k)fluoranthene	500	0	450		90				40	147	
Benzo(a)pyrene	500	0	490		98				42	147	
Indeno(1,2,3-cd)pyrene	500	0	510		102				30	166	
Dibenz(a,h)anthracene	500	0	510		102				23	172	
Benzo(g,h,i)perylene	500	0	480		96				27	167	

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Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: D4153

Client: TRC Companies, Inc.

Analytical Method: EPA SW-846 8270

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: D4140-04MSD	**Client Sample ID: SS-1MSD**										
Acenaphthylene	500	0	420		84	0			40	141	20
Acenaphthene	500	0	420		84	2			37	146	20
Fluorene	500	0	440		88	0			39	144	20
Phenanthrene	500	0	430		86	0			40	147	20
Anthracene	500	0	450		90	2			41	146	20
Fluoranthene	500	0	450		90	2			42	146	20
Pyrene	500	0	440		88	2			41	149	20
Benzo(a)anthracene	500	0	480		96	2			41	147	20
Chrysene	500	0	440		88	0			44	144	20
Benzo(b)fluoranthene	500	0	460		92	2			40	150	20
Benzo(k)fluoranthene	500	0	430		86	5			40	147	20
Benzo(a)pyrene	500	0	480		96	2			42	147	20
Indeno(1,2,3-cd)pyrene	500	0	520		104	2			30	166	20
Dibenz(a,h)anthracene	500	0	490		98	4			23	172	20
Benzo(g,h,i)perylene	500	0	480		96	0			27	167	20

CHEMTECH

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

SDG No.: D4153

Client: TRC Companies, Inc.

Analytical Method: EPA SW-846 8270

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB65670BS	Acenaphthylene	50	34	ug/L	68				65	110	
	Acenaphthene	50	34	ug/L	68				66	114	
	Fluorene	50	35	ug/L	70				66	112	
	Phenanthrene	50	35	ug/L	70				68	112	
	Anthracene	50	36	ug/L	72				69	112	
	Fluoranthene	50	36	ug/L	72				67	115	
	Pyrene	50	35	ug/L	70				67	116	
	Benzo(a)anthracene	50	37	ug/L	74				64	117	
	Chrysene	50	35	ug/L	70				65	116	
	Benzo(b)fluoranthene	50	36	ug/L	72				62	122	
	Benzo(k)fluoranthene	50	36	ug/L	72				60	123	
	Benzo(a)pyrene	50	37	ug/L	74				65	118	
	Indeno(1,2,3-cd)pyrene	50	37	ug/L	74				50	133	
	Dibenz(a,h)anthracene	50	37	ug/L	74				45	150	
	Benzo(g,h,i)perylene	50	37	ug/L	74				64	123	

CHEMTECH

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

SDG No.: D4153

Client: TRC Companies, Inc.

Analytical Method: EPA SW-846 8270

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB65675BS	Acenaphthylene	1700	1100	ug/Kg	65				57	101	
	Acenaphthene	1700	1000	ug/Kg	59				57	102	
	Fluorene	1700	1100	ug/Kg	65				57	101	
	Phenanthrene	1700	1000	ug/Kg	59				58	101	
	Anthracene	1700	1100	ug/Kg	65				57	102	
	Fluoranthene	1700	1000	ug/Kg	59				56	102	
	Pyrene	1700	1100	ug/Kg	65				56	106	
	Benzo(a)anthracene	1700	1100	ug/Kg	65				56	103	
	Chrysene	1700	1100	ug/Kg	65				58	102	
	Benzo(b)fluoranthene	1700	1000	ug/Kg	59				56	103	
	Benzo(k)fluoranthene	1700	1100	ug/Kg	65				55	102	
	Benzo(a)pyrene	1700	1100	ug/Kg	65				57	103	
	Indeno(1,2,3-cd)pyrene	1700	1100	ug/Kg	65				50	113	
	Dibenz(a,h)anthracene	1700	1100	ug/Kg	65				52	119	
	Benzo(g,h,i)perylene	1700	1100	ug/Kg	65				56	105	

CHEMTECH

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB65670BL

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: D4153 SAS No.: D4153 SDG NO.: D4153

Lab File ID: BF058637.D Lab Sample ID: PB65670BL

Instrument ID: BNA_F Date Extracted: 09/13/2012

Matrix: (soil/water) WATER Date Analyzed: 09/14/2012

Level: (low/med) LOW Time Analyzed: 18:12

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB65670BS	PB65670BS	BF058639.D	09/14/2012
SS-1MSD	D4140-04MSD	BF058633.D	09/14/2012
SS-1MS	D4140-04MS	BF058632.D	09/14/2012
FB091212	D4153-04	BF058629.D	09/14/2012

COMMENTS:

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB65675BL

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: D4153 SAS No.: D4153 SDG NO.: D4153

Lab File ID: BF058641.D Lab Sample ID: PB65675BL

Instrument ID: BNA_F Date Extracted: 09/13/2012

Matrix: (soil/water) SOIL Date Analyzed: 09/14/2012

Level: (low/med) LOW Time Analyzed: 20:11

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB65675BS	PB65675BS	BF058642.D	09/14/2012
MW-39S(47-49)MSD	D4153-02MSD	BF058631.D	09/14/2012
MW-39S(47-49)MS	D4153-02MS	BF058630.D	09/14/2012
DUP-1	D4153-03	BF058628.D	09/14/2012
MW-39S(47-49)	D4153-02	BF058627.D	09/14/2012
MW-39S(25-27)	D4153-01	BF058626.D	09/14/2012

COMMENTS:

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM SAS No.: D4153 SDG NO.: D4153

Lab File ID: BF058599.D DFTPP Injection Date: 09/13/2012

Instrument ID: BNA_F DFTPP Injection Time: 18:01

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	54.3
68	Less than 2.0% of mass 69	0.8 (1.5) 1
69	Mass 69 relative abundance	53.4
70	Less than 2.0% of mass 69	0.2 (0.4) 1
127	10.0 - 80.0% of mass 198	57.1
197	Less than 2.0% of mass 198	0.3
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	22.6
365	Greater than 1% of mass 198	3.2
441	Present, but less than mass 443	8.3
442	Greater than 50% of mass 198	51.9
443	15.0 - 24.0% of mass 442	9.6 (18.4) 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
01	SSTDICC080	SSTDICC080	BF058607.D	09/13/2012	22:00
02	SSTDICC060	SSTDICC060	BF058608.D	09/13/2012	22:30
03	SSTDICC050	SSTDICC050	BF058609.D	09/13/2012	23:00
04	SSTDICCC040	SSTDICCC040	BF058610.D	09/13/2012	23:30
05	SSTDICC025	SSTDICC025	BF058611.D	09/13/2012	23:59
06	SSTDICC010	SSTDICC010	BF058612.D	09/14/2012	00:29

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM SAS No.: D4153 SDG NO.: D4153

Lab File ID: BF058620.D DFTPP Injection Date: 09/14/2012

Instrument ID: BNA_F DFTPP Injection Time: 09:49

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	49.7
68	Less than 2.0% of mass 69	0.9 (1.6) 1
69	Mass 69 relative abundance	56.2
70	Less than 2.0% of mass 69	0.4 (0.6) 1
127	10.0 - 80.0% of mass 198	60.2
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	6.9
275	10.0 - 60.0% of mass 198	21.6
365	Greater than 1% of mass 198	2.8
441	Present, but less than mass 443	7.8
442	Greater than 50% of mass 198	55.5
443	15.0 - 24.0% of mass 442	9.1 (16.3) 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
01	SSTDCCC040	SSTDCCC040	BF058621.D	09/14/2012	10:18
02	MW-39S(25-27)	D4153-01	BF058626.D	09/14/2012	12:47
03	MW-39S(47-49)	D4153-02	BF058627.D	09/14/2012	13:16
04	DUP-1	D4153-03	BF058628.D	09/14/2012	13:45
05	FB091212	D4153-04	BF058629.D	09/14/2012	14:14
06	MW-39S(47-49)MS	D4153-02MS	BF058630.D	09/14/2012	14:44
07	MW-39S(47-49)MSD	D4153-02MSD	BF058631.D	09/14/2012	15:14
08	SS-1MS	D4140-04MS	BF058632.D	09/14/2012	15:42
09	SS-1MSD	D4140-04MSD	BF058633.D	09/14/2012	16:12
10	PB65670BL	PB65670BL	BF058637.D	09/14/2012	18:12
11	PB65670BS	PB65670BS	BF058639.D	09/14/2012	19:11
12	PB65675BL	PB65675BL	BF058641.D	09/14/2012	20:11
13	PB65675BS	PB65675BS	BF058642.D	09/14/2012	20:41

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM SAS No.: D4153 SDG NO.: D4153

Lab File ID: BF058666.D DFTPP Injection Date: 09/17/2012

Instrument ID: BNA_F DFTPP Injection Time: 16:06

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	48.1
68	Less than 2.0% of mass 69	0.5 (0.9) 1
69	Mass 69 relative abundance	53.6
70	Less than 2.0% of mass 69	0.3 (0.6) 1
127	10.0 - 80.0% of mass 198	60.4
197	Less than 2.0% of mass 198	1.1
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	25.3
365	Greater than 1% of mass 198	3.2
441	Present, but less than mass 443	9.1
442	Greater than 50% of mass 198	55.1
443	15.0 - 24.0% of mass 442	10.6 (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
01	SSTDCCC040	SSTDCCC040	BF058667.D	09/17/2012	16:58
02	MW-39S(25-27)DL	D4153-01DL	BF058670.D	09/17/2012	18:28
03	DUP-1DL	D4153-03DL	BF058672.D	09/17/2012	19:28

CHEMTECH

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: D4153 SAS No.: D4153 SDG NO.: D4153

EPA Sample No.: SSTDCCC040 Date Analyzed: 09/14/2012

Lab File ID: BF058621.D Time Analyzed: 10:18

Instrument ID: BNA_F GC Column: RTX-5 ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	124644	4.85	437359	6.34	226430	8.09
	UPPER LIMIT	249288	5.35	874718	6.84	452860	8.59
	LOWER LIMIT	62322	4.35	218679.5	5.84	113215	7.59
	EPA SAMPLE NO.						
01	MW-39S(25-27)	125653	4.86	379312	6.35	208847	8.13
02	MW-39S(47-49)	145385	4.85	526408	6.34	269848	8.09
03	DUP-1	124800	4.86	363075	6.35	182190	8.13
04	FB091212	142500	4.86	517799	6.34	268319	8.09
05	MW-39S(47-49)MS	151438	4.85	533795	6.34	273847	8.09
06	MW-39S(47-49)MSD	153155	4.85	528353	6.34	275864	8.09
07	SS-1MS	154132	4.86	534836	6.34	283379	8.09
08	SS-1MSD	148266	4.85	510300	6.34	274500	8.09
09	PB65670BL	158331	4.85	567623	6.34	291647	8.09
10	PB65670BS	138141	4.86	480753	6.34	252438	8.09
11	PB65675BL	139287	4.85	512376	6.34	259304	8.09
12	PB65675BS	141006	4.85	495913	6.34	251795	8.09

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

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: D4153 SAS No.: D4153 SDG NO.: D4153

EPA Sample No.: SSTDCCC040 Date Analyzed: 09/14/2012

Lab File ID: BF058621.D Time Analyzed: 10:18

Instrument ID: BNA_F GC Column: RTX-5 ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	395471	9.98	335941	14.01	274951	16.1
	UPPER LIMIT	790942	10.48	671882	14.51	549902	16.6
	LOWER LIMIT	197735.5	9.48	167970.5	13.51	137475.5	15.6
	EPA SAMPLE NO.						
01	MW-39S(25-27)	315555	10.04	331919	14.02	325340	16.10
02	MW-39S(47-49)	460411	9.98	397847	14.00	361023	16.10
03	DUP-1	310853	10.04	319094	14.02	312713	16.10
04	FB091212	481534	9.98	421076	14.00	376501	16.10
05	MW-39S(47-49)MS	471158	9.98	416138	14.01	369618	16.10
06	MW-39S(47-49)MSD	478231	9.98	422702	14.01	372446	16.10
07	SS-1MS	496248	9.98	430710	14.01	371038	16.10
08	SS-1MSD	480340	9.98	414087	14.01	376855	16.10
09	PB65670BL	495566	9.98	414645	14.00	356478	16.10
10	PB65670BS	429516	9.98	370109	14.01	317392	16.10
11	PB65675BL	444797	9.98	361307	14.00	306500	16.10
12	PB65675BS	439165	9.98	371409	14.01	319642	16.10

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

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: D4153 SAS No.: D4153 SDG NO.: D4153

EPA Sample No.: SSTDCCC040 Date Analyzed: 09/17/2012

Lab File ID: BF058667.D Time Analyzed: 16:58

Instrument ID: BNA_F GC Column: RTX-5 ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	147878	4.82	488764	6.32	242570	8.07
	UPPER LIMIT	295756	5.32	977528	6.82	485140	8.57
	LOWER LIMIT	73939	4.32	244382	5.82	121285	7.57
	EPA SAMPLE NO.						
01	MW-39S(25-27)DL	134705	4.82	415091	6.32	195947	8.08
02	DUP-1DL	140013	4.82	421345	6.32	197810	8.08

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

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: D4153 SAS No.: D4153 SDG NO.: D4153

EPA Sample No.: SSTDCCC040 Date Analyzed: 09/17/2012

Lab File ID: BF058667.D Time Analyzed: 16:58

Instrument ID: BNA_F GC Column: RTX-5 ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	407310	9.95	347573	13.98	304080	16.07
	UPPER LIMIT	814620	10.45	695146	14.48	608160	16.57
	LOWER LIMIT	203655	9.45	173786.5	13.48	152040	15.57
	EPA SAMPLE NO.						
01	MW-39S(25-27)DL	332988	9.97	302863	13.97	286105	16.07
02	DUP-1DL	338850	9.97	302282	13.98	287912	16.06

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

Report of Analysis

Client:	TRC Companies, Inc.			Date Collected:	
Project:	LIRR Richmond Hill			Date Received:	
Client Sample ID:	PB65670BL			SDG No.:	D4153
Lab Sample ID:	PB65670BL			Matrix:	WATER
Analytical Method:	SW8270D			% Moisture:	100
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS Group1
Extraction Type :	SEPF		Decanted : N	Level :	LOW
Injection Volume :	1		GPC Factor : 1.0	GPC Cleanup : N	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF058637.D	1	09/13/12	09/14/12	PB65670

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
208-96-8	Acenaphthylene	5	U	0.7	5	10	ug/L
83-32-9	Acenaphthene	5	U	0.21	5	10	ug/L
86-73-7	Fluorene	5	U	0.31	5	10	ug/L
85-01-8	Phenanthrene	5	U	0.26	5	10	ug/L
120-12-7	Anthracene	5	U	0.16	5	10	ug/L
206-44-0	Fluoranthene	5	U	0.4	5	10	ug/L
129-00-0	Pyrene	5	U	0.2	5	10	ug/L
56-55-3	Benzo(a)anthracene	5	U	0.16	5	10	ug/L
218-01-9	Chrysene	5	U	0.18	5	10	ug/L
205-99-2	Benzo(b)fluoranthene	5	U	0.29	5	10	ug/L
207-08-9	Benzo(k)fluoranthene	5	U	0.18	5	10	ug/L
50-32-8	Benzo(a)pyrene	5	U	0.14	5	10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5	U	0.15	5	10	ug/L
53-70-3	Dibenz(a,h)anthracene	5	U	0.42	5	10	ug/L
191-24-2	Benzo(g,h,i)perylene	5	U	0.29	5	10	ug/L
SURROGATES							
4165-60-0	Nitrobenzene-d5	70.9		36 - 131		71%	SPK: 100
321-60-8	2-Fluorobiphenyl	78.2		39 - 131		78%	SPK: 100
1718-51-0	Terphenyl-d14	80.9		23 - 130		81%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	158331	4.85				
1146-65-2	Naphthalene-d8	567623	6.34				
15067-26-2	Acenaphthene-d10	291647	8.09				
1517-22-2	Phenanthrene-d10	495566	9.98				
1719-03-5	Chrysene-d12	414645	14				
1520-96-3	Perylene-d12	356478	16.1				

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Report of Analysis

Client:	TRC Companies, Inc.			Date Collected:	
Project:	LIRR Richmond Hill			Date Received:	
Client Sample ID:	PB65670BL			SDG No.:	D4153
Lab Sample ID:	PB65670BL			Matrix:	WATER
Analytical Method:	SW8270D			% Moisture:	100
Sample Wt/Vol:	1000 Units:	mL		Final Vol:	1000 uL
Soil Aliquot Vol:		uL		Test:	SVOCMS Group1
Extraction Type :	SEPF	Decanted :	N	Level :	LOW
Injection Volume :	1	GPC Factor :	1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF058637.D	1	09/13/12	09/14/12	PB65670

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	LIRR Richmond Hill	Date Received:	
Client Sample ID:	PB65675BL	SDG No.:	D4153
Lab Sample ID:	PB65675BL	Matrix:	SOIL
Analytical Method:	SW8270D	% Moisture:	0
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	SOXH Decanted : N	Level :	LOW
Injection Volume :	1 GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF058641.D	1	09/13/12	09/14/12	PB65675

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
208-96-8	Acenaphthylene	165	U	8.4	165	330	ug/Kg
83-32-9	Acenaphthene	165	U	9.4	165	330	ug/Kg
86-73-7	Fluorene	165	U	13	165	330	ug/Kg
85-01-8	Phenanthrene	165	U	9	165	330	ug/Kg
120-12-7	Anthracene	165	U	6.8	165	330	ug/Kg
206-44-0	Fluoranthene	165	U	6.7	165	330	ug/Kg
129-00-0	Pyrene	165	U	8	165	330	ug/Kg
56-55-3	Benzo(a)anthracene	165	U	16	165	330	ug/Kg
218-01-9	Chrysene	165	U	15	165	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	165	U	11	165	330	ug/Kg
207-08-9	Benzo(k)fluoranthene	165	U	16	165	330	ug/Kg
50-32-8	Benzo(a)pyrene	165	U	7.2	165	330	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	165	U	11	165	330	ug/Kg
53-70-3	Dibenz(a,h)anthracene	165	U	9.6	165	330	ug/Kg
191-24-2	Benzo(g,h,i)perylene	165	U	13	165	330	ug/Kg
SURROGATES							
4165-60-0	Nitrobenzene-d5	69.5		31 - 132		70%	SPK: 100
321-60-8	2-Fluorobiphenyl	77		39 - 123		77%	SPK: 100
1718-51-0	Terphenyl-d14	77		37 - 115		77%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	139287	4.85				
1146-65-2	Naphthalene-d8	512376	6.34				
15067-26-2	Acenaphthene-d10	259304	8.09				
1517-22-2	Phenanthrene-d10	444797	9.98				
1719-03-5	Chrysene-d12	361307	14				
1520-96-3	Perylene-d12	306500	16.1				

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Report of Analysis

Client:	TRC Companies, Inc.			Date Collected:	
Project:	LIRR Richmond Hill			Date Received:	
Client Sample ID:	PB65675BL			SDG No.:	D4153
Lab Sample ID:	PB65675BL			Matrix:	SOIL
Analytical Method:	SW8270D			% Moisture:	0
Sample Wt/Vol:	30.02	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS Group1
Extraction Type :	SOXH		Decanted : N	Level :	LOW
Injection Volume :	1		GPC Factor : 1.0	GPC Cleanup : N	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF058641.D	1	09/13/12	09/14/12	PB65675

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	TRC Companies, Inc.			Date Collected:	
Project:	LIRR Richmond Hill			Date Received:	
Client Sample ID:	PB65670BS			SDG No.:	D4153
Lab Sample ID:	PB65670BS			Matrix:	WATER
Analytical Method:	SW8270D			% Moisture:	100
Sample Wt/Vol:	1000 Units:	mL		Final Vol:	1000 uL
Soil Aliquot Vol:		uL		Test:	SVOCMS Group1
Extraction Type :	SEPF	Decanted :	N	Level :	LOW
Injection Volume :	1	GPC Factor :	1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF058639.D	1	09/13/12	09/14/12	PB65670

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
208-96-8	Acenaphthylene	34		0.7	5	10	ug/L
83-32-9	Acenaphthene	34		0.21	5	10	ug/L
86-73-7	Fluorene	35		0.31	5	10	ug/L
85-01-8	Phenanthrene	35		0.26	5	10	ug/L
120-12-7	Anthracene	36		0.16	5	10	ug/L
206-44-0	Fluoranthene	36		0.4	5	10	ug/L
129-00-0	Pyrene	35		0.2	5	10	ug/L
56-55-3	Benzo(a)anthracene	37		0.16	5	10	ug/L
218-01-9	Chrysene	35		0.18	5	10	ug/L
205-99-2	Benzo(b)fluoranthene	36		0.29	5	10	ug/L
207-08-9	Benzo(k)fluoranthene	36		0.18	5	10	ug/L
50-32-8	Benzo(a)pyrene	37		0.14	5	10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	37		0.15	5	10	ug/L
53-70-3	Dibenz(a,h)anthracene	37		0.42	5	10	ug/L
191-24-2	Benzo(g,h,i)perylene	37		0.29	5	10	ug/L
SURROGATES							
4165-60-0	Nitrobenzene-d5	74.8		36 - 131		75%	SPK: 100
321-60-8	2-Fluorobiphenyl	78		39 - 131		78%	SPK: 100
1718-51-0	Terphenyl-d14	80.7		23 - 130		81%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	138141	4.86				
1146-65-2	Naphthalene-d8	480753	6.34				
15067-26-2	Acenaphthene-d10	252438	8.09				
1517-22-2	Phenanthrene-d10	429516	9.98				
1719-03-5	Chrysene-d12	370109	14.01				
1520-96-3	Perylene-d12	317392	16.1				

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Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	LIRR Richmond Hill	Date Received:	
Client Sample ID:	PB65670BS	SDG No.:	D4153
Lab Sample ID:	PB65670BS	Matrix:	WATER
Analytical Method:	SW8270D	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	SEPF Decanted : N	Level :	LOW
Injection Volume :	1 GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF058639.D	1	09/13/12	09/14/12	PB65670

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	LIRR Richmond Hill	Date Received:	
Client Sample ID:	PB65675BS	SDG No.:	D4153
Lab Sample ID:	PB65675BS	Matrix:	SOIL
Analytical Method:	SW8270D	% Moisture:	0
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	SOXH Decanted : N	Level :	LOW
Injection Volume :	1 GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF058642.D	1	09/13/12	09/14/12	PB65675

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
208-96-8	Acenaphthylene	1100		8.4	165	330	ug/Kg
83-32-9	Acenaphthene	1000		9.4	165	330	ug/Kg
86-73-7	Fluorene	1100		13	165	330	ug/Kg
85-01-8	Phenanthrene	1000		9	165	330	ug/Kg
120-12-7	Anthracene	1100		6.8	165	330	ug/Kg
206-44-0	Fluoranthene	1000		6.7	165	330	ug/Kg
129-00-0	Pyrene	1100		8	165	330	ug/Kg
56-55-3	Benzo(a)anthracene	1100		16	165	330	ug/Kg
218-01-9	Chrysene	1100		15	165	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	1000		11	165	330	ug/Kg
207-08-9	Benzo(k)fluoranthene	1100		16	165	330	ug/Kg
50-32-8	Benzo(a)pyrene	1100		7.2	165	330	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1100		11	165	330	ug/Kg
53-70-3	Dibenz(a,h)anthracene	1100		9.6	165	330	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1100		13	165	330	ug/Kg
SURROGATES							
4165-60-0	Nitrobenzene-d5	68.3		31 - 132		68%	SPK: 100
321-60-8	2-Fluorobiphenyl	71.9		39 - 123		72%	SPK: 100
1718-51-0	Terphenyl-d14	69.9		37 - 115		70%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	141006	4.85				
1146-65-2	Naphthalene-d8	495913	6.34				
15067-26-2	Acenaphthene-d10	251795	8.09				
1517-22-2	Phenanthrene-d10	439165	9.98				
1719-03-5	Chrysene-d12	371409	14.01				
1520-96-3	Perylene-d12	319642	16.1				

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Report of Analysis

Client:	TRC Companies, Inc.			Date Collected:	
Project:	LIRR Richmond Hill			Date Received:	
Client Sample ID:	PB65675BS			SDG No.:	D4153
Lab Sample ID:	PB65675BS			Matrix:	SOIL
Analytical Method:	SW8270D			% Moisture:	0
Sample Wt/Vol:	30.03	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS Group1
Extraction Type :	SOXH		Decanted : N	Level :	LOW
Injection Volume :	1		GPC Factor : 1.0	GPC Cleanup : N	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF058642.D	1	09/13/12	09/14/12	PB65675

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	09/11/12
Project:	LIRR Richmond Hill	Date Received:	09/12/12
Client Sample ID:	SS-1MS	SDG No.:	D4153
Lab Sample ID:	D4140-04MS	Matrix:	WATER
Analytical Method:	SW8270D	% Moisture:	100
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	SEPF Decanted : N	Level :	LOW
Injection Volume :	1 GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF058632.D	1	09/13/12	09/14/12	PB65670

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
208-96-8	Acenaphthylene	420		7	50	100	ug/L
83-32-9	Acenaphthene	430		2.1	50	100	ug/L
86-73-7	Fluorene	440		3.1	50	100	ug/L
85-01-8	Phenanthrene	430		2.6	50	100	ug/L
120-12-7	Anthracene	440		1.6	50	100	ug/L
206-44-0	Fluoranthene	440		4	50	100	ug/L
129-00-0	Pyrene	430		2	50	100	ug/L
56-55-3	Benzo(a)anthracene	470		1.6	50	100	ug/L
218-01-9	Chrysene	440		1.8	50	100	ug/L
205-99-2	Benzo(b)fluoranthene	470		2.9	50	100	ug/L
207-08-9	Benzo(k)fluoranthene	450		1.8	50	100	ug/L
50-32-8	Benzo(a)pyrene	490		1.4	50	100	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	510		1.5	50	100	ug/L
53-70-3	Dibenz(a,h)anthracene	510		4.2	50	100	ug/L
191-24-2	Benzo(g,h,i)perylene	480		2.9	50	100	ug/L
SURROGATES							
4165-60-0	Nitrobenzene-d5	85.2		36 - 131		85%	SPK: 100
321-60-8	2-Fluorobiphenyl	91.9		39 - 131		92%	SPK: 100
1718-51-0	Terphenyl-d14	97.7		23 - 130		98%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	154132	4.86				
1146-65-2	Naphthalene-d8	534836	6.34				
15067-26-2	Acenaphthene-d10	283379	8.09				
1517-22-2	Phenanthrene-d10	496248	9.98				
1719-03-5	Chrysene-d12	430710	14.01				
1520-96-3	Perylene-d12	371038	16.1				

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Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	09/11/12
Project:	LIRR Richmond Hill	Date Received:	09/12/12
Client Sample ID:	SS-1MS	SDG No.:	D4153
Lab Sample ID:	D4140-04MS	Matrix:	WATER
Analytical Method:	SW8270D	% Moisture:	100
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	SEPF Decanted : N	Level :	LOW
Injection Volume :	1 GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF058632.D	1	09/13/12	09/14/12	PB65670

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	09/12/12
Project:	LIRR Richmond Hill	Date Received:	09/12/12
Client Sample ID:	MW-39S(47-49)MS	SDG No.:	D4153
Lab Sample ID:	D4153-02MS	Matrix:	SOIL
Analytical Method:	SW8270D	% Moisture:	10
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	SOXH Decanted : N	Level :	LOW
Injection Volume :	1 GPC Factor : 1.0	GPC Cleanup :	N PH : N/A

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF058630.D	1	09/13/12	09/14/12	PB65675

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
208-96-8	Acenaphthylene	1200		9.3	185	370	ug/Kg
83-32-9	Acenaphthene	1200		10	185	370	ug/Kg
86-73-7	Fluorene	1200		14	185	370	ug/Kg
85-01-8	Phenanthrene	1100		10	185	370	ug/Kg
120-12-7	Anthracene	1200		7.6	185	370	ug/Kg
206-44-0	Fluoranthene	1200		7.4	185	370	ug/Kg
129-00-0	Pyrene	1100		8.9	185	370	ug/Kg
56-55-3	Benzo(a)anthracene	1200		18	185	370	ug/Kg
218-01-9	Chrysene	1100		17	185	370	ug/Kg
205-99-2	Benzo(b)fluoranthene	1200		12	185	370	ug/Kg
207-08-9	Benzo(k)fluoranthene	1100		17	185	370	ug/Kg
50-32-8	Benzo(a)pyrene	1200		8	185	370	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1300		12	185	370	ug/Kg
53-70-3	Dibenz(a,h)anthracene	1300		11	185	370	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1200		15	185	370	ug/Kg
SURROGATES							
4165-60-0	Nitrobenzene-d5	63.7		31 - 132		64%	SPK: 100
321-60-8	2-Fluorobiphenyl	71.7		39 - 123		72%	SPK: 100
1718-51-0	Terphenyl-d14	67.6		37 - 115		68%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	151438	4.85				
1146-65-2	Naphthalene-d8	533795	6.34				
15067-26-2	Acenaphthene-d10	273847	8.09				
1517-22-2	Phenanthrene-d10	471158	9.98				
1719-03-5	Chrysene-d12	416138	14.01				
1520-96-3	Perylene-d12	369618	16.1				

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Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	09/12/12
Project:	LIRR Richmond Hill	Date Received:	09/12/12
Client Sample ID:	MW-39S(47-49)MS	SDG No.:	D4153
Lab Sample ID:	D4153-02MS	Matrix:	SOIL
Analytical Method:	SW8270D	% Moisture:	10
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	SOXH Decanted : N	Level :	LOW
Injection Volume :	1 GPC Factor : 1.0	GPC Cleanup :	N PH : N/A

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF058630.D	1	09/13/12	09/14/12	PB65675

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	09/11/12
Project:	LIRR Richmond Hill	Date Received:	09/12/12
Client Sample ID:	SS-1MSD	SDG No.:	D4153
Lab Sample ID:	D4140-04MSD	Matrix:	WATER
Analytical Method:	SW8270D	% Moisture:	100
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	SEPF Decanted : N	Level :	LOW
Injection Volume :	1 GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF058633.D	1	09/13/12	09/14/12	PB65670

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
208-96-8	Acenaphthylene	420		7	50	100	ug/L
83-32-9	Acenaphthene	420		2.1	50	100	ug/L
86-73-7	Fluorene	440		3.1	50	100	ug/L
85-01-8	Phenanthrene	430		2.6	50	100	ug/L
120-12-7	Anthracene	450		1.6	50	100	ug/L
206-44-0	Fluoranthene	450		4	50	100	ug/L
129-00-0	Pyrene	440		2	50	100	ug/L
56-55-3	Benzo(a)anthracene	480		1.6	50	100	ug/L
218-01-9	Chrysene	440		1.8	50	100	ug/L
205-99-2	Benzo(b)fluoranthene	460		2.9	50	100	ug/L
207-08-9	Benzo(k)fluoranthene	430		1.8	50	100	ug/L
50-32-8	Benzo(a)pyrene	480		1.4	50	100	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	520		1.5	50	100	ug/L
53-70-3	Dibenz(a,h)anthracene	490		4.2	50	100	ug/L
191-24-2	Benzo(g,h,i)perylene	480		2.9	50	100	ug/L
SURROGATES							
4165-60-0	Nitrobenzene-d5	85		36 - 131		85%	SPK: 100
321-60-8	2-Fluorobiphenyl	90.7		39 - 131		91%	SPK: 100
1718-51-0	Terphenyl-d14	97.4		23 - 130		97%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	148266	4.85				
1146-65-2	Naphthalene-d8	510300	6.34				
15067-26-2	Acenaphthene-d10	274500	8.09				
1517-22-2	Phenanthrene-d10	480340	9.98				
1719-03-5	Chrysene-d12	414087	14.01				
1520-96-3	Perylene-d12	376855	16.1				

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Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	09/11/12
Project:	LIRR Richmond Hill	Date Received:	09/12/12
Client Sample ID:	SS-1MSD	SDG No.:	D4153
Lab Sample ID:	D4140-04MSD	Matrix:	WATER
Analytical Method:	SW8270D	% Moisture:	100
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	SEPF Decanted : N	Level :	LOW
Injection Volume :	1 GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF058633.D	1	09/13/12	09/14/12	PB65670

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	09/12/12
Project:	LIRR Richmond Hill	Date Received:	09/12/12
Client Sample ID:	MW-39S(47-49)MSD	SDG No.:	D4153
Lab Sample ID:	D4153-02MSD	Matrix:	SOIL
Analytical Method:	SW8270D	% Moisture:	10
Sample Wt/Vol:	30.12 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	SOXH Decanted : N	Level :	LOW
Injection Volume :	1 GPC Factor : 1.0	GPC Cleanup :	N PH : N/A

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF058631.D	1	09/13/12	09/14/12	PB65675

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
208-96-8	Acenaphthylene	1300		9.3	185	370	ug/Kg
83-32-9	Acenaphthene	1300		10	185	370	ug/Kg
86-73-7	Fluorene	1300		14	185	370	ug/Kg
85-01-8	Phenanthrene	1300		10	185	370	ug/Kg
120-12-7	Anthracene	1300		7.5	185	370	ug/Kg
206-44-0	Fluoranthene	1300		7.4	185	370	ug/Kg
129-00-0	Pyrene	1300		8.9	185	370	ug/Kg
56-55-3	Benzo(a)anthracene	1400		18	185	370	ug/Kg
218-01-9	Chrysene	1300		17	185	370	ug/Kg
205-99-2	Benzo(b)fluoranthene	1400		12	185	370	ug/Kg
207-08-9	Benzo(k)fluoranthene	1200		17	185	370	ug/Kg
50-32-8	Benzo(a)pyrene	1400		8	185	370	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1500		12	185	370	ug/Kg
53-70-3	Dibenz(a,h)anthracene	1400		11	185	370	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1400		15	185	370	ug/Kg
SURROGATES							
4165-60-0	Nitrobenzene-d5	71.8		31 - 132		72%	SPK: 100
321-60-8	2-Fluorobiphenyl	75.7		39 - 123		76%	SPK: 100
1718-51-0	Terphenyl-d14	72.4		37 - 115		72%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	153155	4.85				
1146-65-2	Naphthalene-d8	528353	6.34				
15067-26-2	Acenaphthene-d10	275864	8.09				
1517-22-2	Phenanthrene-d10	478231	9.98				
1719-03-5	Chrysene-d12	422702	14.01				
1520-96-3	Perylene-d12	372446	16.1				

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Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	09/12/12
Project:	LIRR Richmond Hill	Date Received:	09/12/12
Client Sample ID:	MW-39S(47-49)MSD	SDG No.:	D4153
Lab Sample ID:	D4153-02MSD	Matrix:	SOIL
Analytical Method:	SW8270D	% Moisture:	10
Sample Wt/Vol:	30.12 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	SOXH Decanted : N	Level :	LOW
Injection Volume :	1 GPC Factor : 1.0	GPC Cleanup :	N PH : N/A

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF058631.D	1	09/13/12	09/14/12	PB65675

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

CALIBRATION SUMMURY

CHEMTECH

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: D4153 SAS No.: D4153 SDG No.: D4153

Instrument ID: BNA_F Calibration Date(s): 09/13/2012 09/14/2012

Calibration Time(s): 22:00 00:29

LAB FILE ID: RRF010 = BF058612.D RRF025 = BF058611.D RRF040 = BF058610.D
RRF050 = BF058609.D RRF060 = BF058608.D RRF080 = BF058607.D

COMPOUND	RRF010	RRF025	RRF040	RRF050	RRF060	RRF080	RRF	% RSD
Acenaphthylene	1.999	2.041	2.000	1.928	1.838	1.862	1.945	4.2
Acenaphthene	1.204	1.229	1.207	1.184	1.120	1.138	1.180	3.6
Fluorene	1.419	1.463	1.455	1.434	1.357	1.355	1.414	3.3
Phenanthrene	1.127	1.130	1.093	1.072	1.064	1.047	1.089	3.1
Anthracene	1.085	1.092	1.071	1.048	1.033	1.024	1.059	2.6
Fluoranthene	1.150	1.214	1.191	1.172	1.180	1.162	1.178	1.9
Pyrene	1.431	1.431	1.426	1.383	1.355	1.360	1.398	2.6
Benzo(a)anthracene	1.077	1.152	1.164	1.135	1.151	1.161	1.140	2.8
Chrysene	1.147	1.157	1.181	1.128	1.125	1.113	1.142	2.2
Benzo(b)fluoranthene	0.931	1.122	1.158	1.182	1.138	1.179	1.118	8.5
Benzo(k)fluoranthene	1.283	1.315	1.359	1.306	1.294	1.326	1.314	2.0
Benzo(a)pyrene	0.930	1.078	1.122	1.115	1.098	1.142	1.081	7.1
Indeno(1,2,3-cd)pyrene	0.768	0.997	1.090	1.083	1.109	1.133	1.030	13.2
Dibenzo(a,h)anthracene	0.726	0.910	0.987	1.023	1.023	1.086	0.959	13.3
Benzo(g,h,i)perylene	0.897	0.984	1.047	1.091	1.086	1.134	1.040	8.3
2-Fluorophenol	1.480	1.626	1.514	1.460	1.472	1.421	1.495	4.7
Phenol-d6	1.882	2.041	1.877	1.809	1.804	1.747	1.860	5.5
Nitrobenzene-d5	0.547	0.531	0.539	0.504	0.494	0.500	0.519	4.3
2-Fluorobiphenyl	1.448	1.414	1.377	1.318	1.222	1.217	1.333	7.3
2,4,6-Tribromophenol	0.135	0.148	0.153	0.150	0.150	0.151	0.148	4.3
Terphenyl-d14	0.880	0.888	0.875	0.837	0.845	0.832	0.860	2.8

All other compounds must meet a minimum RRF of 0.010.

CHEMTECH

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: D4153 SAS No.: D4153 SDG No.: D4153

Instrument ID: BNA_F Calibration Date/Time: 09/14/2012 10:18

Lab File ID: BF058621.D Init. Calib. Date(s): 09/13/2012 09/14/2012

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 22:00 00:29

GC Column: RTX-5 ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Acenaphthylene	1.945	1.950		0.2	
Acenaphthene	1.180	1.196		1.3	20.0
Fluorene	1.414	1.446		2.3	
Phenanthrene	1.089	1.106		1.6	
Anthracene	1.059	1.073		1.4	
Fluoranthene	1.178	1.209		2.7	20.0
Pyrene	1.398	1.437		2.8	
Benzo(a)anthracene	1.140	1.178		3.4	
Chrysene	1.142	1.175		2.9	
Benzo(b)fluoranthene	1.118	1.166		4.3	
Benzo(k)fluoranthene	1.314	1.371		4.3	
Benzo(a)pyrene	1.081	1.116		3.2	20.0
Indeno(1,2,3-cd)pyrene	1.030	1.073		4.2	
Dibenzo(a,h)anthracene	0.959	1.025		6.9	
Benzo(g,h,i)perylene	1.040	1.085		4.4	
2-Fluorophenol	1.495	1.531		2.4	
Phenol-d6	1.860	1.897		2.0	
Nitrobenzene-d5	0.519	0.525		1.1	
2-Fluorobiphenyl	1.333	1.328		0.4	
2,4,6-Tribromophenol	0.148	0.148		0.2	
Terphenyl-d14	0.860	0.891		3.6	

All other compounds must meet a minimum RRF of 0.010.

CHEMTECH

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: D4153 SAS No.: D4153 SDG No.: D4153

Instrument ID: BNA_F Calibration Date/Time: 09/17/2012 16:58

Lab File ID: BF058667.D Init. Calib. Date(s): 09/13/2012 09/14/2012

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 22:00 00:29

GC Column: RTX-5 ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Acenaphthylene	1.945	1.910		1.8	
Acenaphthene	1.180	1.154		2.2	20.0
Fluorene	1.414	1.388		1.9	
Phenanthrene	1.089	1.077		1.1	
Anthracene	1.059	1.049		0.9	
Fluoranthene	1.178	1.168		0.8	20.0
Pyrene	1.398	1.384		1.0	
Benzo(a)anthracene	1.140	1.174		3.0	
Chrysene	1.142	1.147		0.4	
Benzo(b)fluoranthene	1.118	1.149		2.8	
Benzo(k)fluoranthene	1.314	1.245		5.2	
Benzo(a)pyrene	1.081	1.113		3.0	20.0
Indeno(1,2,3-cd)pyrene	1.030	1.165		13.1	
Dibenzo(a,h)anthracene	0.959	0.989		3.1	
Benzo(g,h,i)perylene	1.040	1.092		5.0	
2-Fluorophenol	1.495	1.508		0.9	
Phenol-d6	1.860	1.783		4.2	
Nitrobenzene-d5	0.519	0.497		4.2	
2-Fluorobiphenyl	1.333	1.331		0.2	
2,4,6-Tribromophenol	0.148	0.147		1.0	
Terphenyl-d14	0.860	0.865		0.6	

All other compounds must meet a minimum RRF of 0.010.

SHIPPING DOCUMENTS

CHEMTECH
CHAIN OF CUSTODY RECORD

B1209016

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. D4153
QUOTE NO.
COC Number 024453

7

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: TRC
ADDRESS: 1430 Broadway
CITY: New York STATE: NY ZIP: 10018
ATTENTION: D. Warren
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: MTA-LIRR Richmond Hill Yard
PROJECT NO.: 178903 LOCATION: Richmond Hill Queens, NY
PROJECT MANAGER: Dan Warren
e-mail: dwarren@trcsolutions.com
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: PO#:
ADDRESS:
CITY: STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX: 10 DAYS *
HARD COPY: 10 DAYS *
EDD: 10 DAYS *
PREAPPROVED TAT: ☐ YES ☐ NO
* STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ LEVEL 1: Results only ☐ Others
☐ LEVEL 2: Results + QC
☐ LEVEL 3: Results (plus results raw data) + QC
☐ LEVEL 4: Results + QC (all raw data)
☐ EDD Format:

ANALYSIS

1 CP-51 VOC
2 CP-51 SVOC
3
4
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	2	3	4	5	6	7	8	9	COMMENTS
1.	MW-39S (25-27)	S		X	9.12.12	1000		X	X								
2.	MW-39S (47-49)	S		X		1200		X	X								
3.	DUP-1	S		X		1500		X	X								
4.	FB091212	W		X		1330		X	X								
5.	TB	W		X	9/12	—	2	X									
6.																	
7.																	
8.																	
9.																	
10.																	

PRESERVATIVES: ← Specify Preservatives
A – HCl B – HNO_3 C – H_2SO_4 D – NaOH E – ICE F – Other

COMMENTS

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	9/12/12 1415	1.
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:
2.		2.
RELINQUISHED BY:	DATE/TIME:	RECEIVED FOR LAB BY:
3.	9.12.12 1550	3.

Conditions of bottles or coolers at receipt: ☒ Compliant ☐ Non Compliant
Cooler Temp. 5c
MeOH extraction requires an additional 4 oz jar for percent solid.
Comments:
Ice in Cooler?: Yes

Page 1 of 1

SHIPPED VIA: CLIENT: ☐ HAND DELIVERED ☐ OVERNIGHT
CHEMTECH: ☒ PICKED UP ☐ OVERNIGHT

Shipment Complete: ☒ YES ☐ NO

Revision 8/2007

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

CHEMTECH 284 Sheffield Street Mountainside NJ 07092 Tel

Laboratory Certification

State	License No.
New Jersey	20012
New York	11376
Connecticut	PH-0649
Florida	E87935
Maryland	296
Massachusetts	M-NJ503
Oklahoma	9705
Pennsylvania	68-548
Rhode Island	LAO00259
Virginia	460220
Texas	T10470448-10-1

Other:

DOD ELAP	L2219
Soil Permit	P330-11-00012
CLP Inorganic Contract	EPW09038
CLP Organic Contract	EPW11030

QA Control Code: A2070148

CHEMTECH

LOGIN REPORT/SAMPLE TRANSFER

Order ID:	D4153 TRCE03	**Order Date:**	9/12/2012	**Project Mgr:**	Palak
Client Name:	TRC Companies, Inc.	**Project Name:**	LIRR Richmond Hill	**Report Type:**	NYS ASP A
Client Contact:	Dan Warren	**Rec DateTime**	9/12/2012 3:50:00 PM	**EDD:**	Equis EQNYDEC/Excel
Invoice Name:	TRC Companies, Inc.	**Purchase Order:**		**Hard Copy Date:**	
Invoice Contact:	Dan Warren	**Login Tech:**	Nikul	**Date Signoff:**	9/12/2012 5:18:56 PM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	QTY	TEST	TEST GROUP	METHOD	COMMENT	FAX DATE	Due Dates
D4153-01	MW-39S(25-27)	Solid	9/12/2012	10:00	4	VOC-STARS		8260C	10 Bus.	9/26/2012	9/26/20
D4153-02	MW-39S(47-49)	Solid	9/12/2012	12:00	4	VOC-STARS		8260C	10 Bus.	9/26/2012	9/26/20
D4153-03	DUP-1	Solid	9/12/2012	15:00	4	VOC-STARS		8260C	10 Bus.	9/26/2012	9/26/20
D4153-04	FB091212	Water	9/12/2012	13:30	4	VOC-STARS		8260C	10 Bus.	9/26/2012	9/26/20
D4153-05	TB	Water	9/6/2012	0:00	2	VOC-STARS		8260C	10 Bus.	9/20/2012	9/20/20

CHEMTECH

LOGIN REPORT/SAMPLE TRANSFER

Order ID:	D4153 TRCE03	**Order Date:**	9/12/2012	**Project Mgr:**	Palak
Client Name:	TRC Companies, Inc.	**Project Name:**	LIRR Richmond Hill	**Report Type:**	NYS ASP A
Client Contact:	Dan Warren	**Rec DateTime**	9/12/2012 3:50:00 PM	**EDD:**	Equis_EQNYDEC/Excel
Invoice Name:	TRC Companies, Inc.	**Purchase Order:**		**Hard Copy Date:**	
Invoice Contact:	Dan Warren	**Login Tech:**	Nikul	**Date Signoff:**	9/12/2012 5:18:56 PM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	QTY	TEST	TEST GROUP	METHOD	COMMENT	FAX DATE	Due Dates

SAMPLE CONDITION RECORD

Are samples submitted with a chain of custody?	Yes
Are the number of samples the same as stated on the chain of custody?	Yes
Are bottle caps tight and securely in place?	Yes
Were all containers intact when received?	Yes
Were samples submitted in an ice chest?	Yes
Were samples received cold?	Yes
Were samples within the holding time for the requested test(s)?	Yes
Is the volume of sample submitted sufficient for the requested test(s)?	Yes
Are all samples for volatile organic analyses free of headspace?	Yes

Relinguished By: Palak Shah

Date / Time: 9/12/12 1725

Received By:

Date / Time: 09-12-12 17:25

Storage Area: VOA Refridgerator Room

ORDER COMMENT

SVOCMS Group1=CP51 (stars+acenaphtlyene).

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DATA PACKAGE

METALS
SEMI-VOLATILE ORGANICS
VOLATILE ORGANICS

PROJECT NAME : MORRIS PARK & RICHMOND HILL YARDS

TRC COMPANIES, INC.

1430 Broadway

10th Floor

New York, NY - 10018

Phone No: 212-221-7822

ORDER ID : D5165

ATTENTION : Dan Warren

ACCREDITED IN ACCORDANCE WITH nelac

DoD ELAP

CHEMTECH

Table Of Contents for D5165

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

Cover Page

Order ID : D5165

Project ID : Morris Park & Richmond Hill Yards

Client : TRC Companies, Inc.

Lab Sample Number	Client Sample Number
D5165-01	MW-39S
D5165-02	DUP-A
D5165-03	MW-35S
D5165-04	MW-GF-6
D5165-05	MW-GF-9
D5165-06	MW-34S
D5165-07	MW-GF-7
D5165-08	MW-36S
D5165-09	MW-GF-18
D5165-10	D5165-09MS
D5165-11	D5165-09MSD
D5165-12	EQUIPMENTBLANK
D5165-13	MW-GF-15
D5165-14	MW-GF-17
D5165-15	MW-1-60
D5165-16	D5165-15MS
D5165-17	D5165-15MSD
D5165-18	DMW-5
D5165-19	EQUIPMENTBLANK

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 : _____ Date: 12/27/2012

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: Morris Park & Richmond Hill Yards
Project # N/A
Chemtech Project # D5165
Test Name: VOCMS Group1

A. Number of Samples and Date of Receipt:
19 Water samples were received on 12/13/2012.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Metals Group3, SVOCMS Group1 and VOCMS Group1. This data package contains results for VOCMS Group1.

C. Analytical Techniques:
The analysis performed on instrument MSVOA_N were done using GC column RXI-624SIL MS 30m 0.25mm 1.4 um. Cat#13868.The 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 recoveries met criteria .
The Blank Spike met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .
The Continuous Calibration met the requirements .
The Tuning criteria met requirements.

E. Additional Comments:
F. Manual Integration Comments:

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_____

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

CASE NARRATIVE

TRC Companies, Inc.
Project Name: Morris Park & Richmond Hill Yards
Project # N/A
Chemtech Project # D5165
Test Name: SVOCMS Group1

A. Number of Samples and Date of Receipt:
19 Water samples were received on 12/13/2012.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Metals Group3, SVOCMS Group1 and VOCMS Group1. This data package contains results for SVOCMS Group1.

C. Analytical Techniques:
The samples were analyzed on instrument BNA_E using GC Column RXI-5 SILMS which is 30 meters, 0.25 mm ID, 0.50 um df, Catalog # 13638-124.The samples were analyzed on instrument BNA_F using GC Column ZB-5MS which is 20 meters, 0.18 mm ID, 0.36 um df, Catalog # 7FD-G010-53.The samples were analyzed on instrument BNA_G using GC Column RXI-5 SILMS which is 30 meters, 0.25 mm ID, 0.50 um df, Catalog # 13638-124.The analysis of SVOCMS Group1 was based on method 8270D 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.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The MS recoveries for {D5165-10MS} with File ID: BE080793.D met requirements for all samples except for Phenol[26%], 3+4-Methylphenols[56%], 4-Chloroaniline[46%], 3-Nitroaniline[58%], 4-Nitrophenol[32%], N-Nitrosodiphenylamine[141%] and 3,3-Dichlorobenzidine[56%] .The MS recoveries for {D5165-16MS} with File ID: BE080797.D met requirements for all samples except for Phenol[26%], 3+4-Methylphenols[58%], 4-Chloroaniline[50%], 3-Nitroaniline[56%] and 4-Nitrophenol[29%] .
The MSD recoveries for {D5165-10MSD} with File ID: BE080794.D met requirements for all samples except for Phenol[23%], 3+4-Methylphenols[55%], 4-Chloroaniline[41%], 3-Nitroaniline[53%], 4-Nitrophenol[34%] and 3,3-Dichlorobenzidine[54%] .The MSD recoveries for {D5165-16MSD} with File ID: BE080798.D met requirements for all samples except for Phenol[24%], 3+4-Methylphenols[54%], 4-Chloroaniline[45%], 3-Nitroaniline[50%] and 4-Nitrophenol[30%] .
The RPD recoveries met criteria .

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The Blank Spike for {PB67493BS} with File ID: BE080800.D met requirements for all samples except for 2-Methylphenol[106%], 3+4-Methylphenols[99%],4-Chloroaniline[24%], 3-Nitroaniline[37%] and 3,3-Dichlorobenzidine[39%] .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .
The Continuous Calibration File ID BG008959.D met the requirements except for 2,4-Dinitrophenol but it was not detected in any sample.
The Tuning criteria met requirements.
Sample MW-GF-18 was diluted due to high concentration.

E. Additional Comments:

F. Manual Integration Comments:

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_____

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

CASE NARRATIVE

TRC Companies, Inc.
Project Name: Morris Park & Richmond Hill Yards
Project # N/A
Chemtech Project # D5165
Test Name: Metals Group3

A. Number of Samples and Date of Receipt:
19 Water samples were received on 12/13/2012.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Metals Group3, SVOCMS Group1 and VOCMS Group1. This data package contains results for Metals Group3.

C. Analytical Techniques:
The analysis of Metals Group3 was based on method 6010B and digestion based on method 3010 (waters).

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Blank Spike met requirements for all samples.
The Duplicate analysis met criteria for all samples.
The Matrix Spike analysis met criteria for all samples except for Iron.
The Matrix Spike Duplicate analysis met criteria for all samples except for Iron.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.
The Serial Dilution met criteria for all samples except for Iron.

E. Additional Comments:

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_____

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

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 #: D5165

	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: HIRAL PATEL **Date:** 12/27/2012

2nd Level QA Review Signature: _____ **Date:** _____

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

LAB CHRONICLE

OrderID:	D5165	**OrderDate:**	12/13/2012 6:14:15 PM
Client:	TRC Companies, Inc.	**Project:**	Morris Park & Richmond Hill Yards
Contact:	Dan Warren	**Location:**	M43

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
D5165-01	**MW-39S**	**WATER**			**12/12/12**			**12/13/12**
			VOCMS Group1	8260-Low			12/15/12	
D5165-02	**DUP-A**	**WATER**			**12/12/12**			**12/13/12**
			VOCMS Group1	8260-Low			12/15/12	
D5165-03	**MW-35S**	**WATER**			**12/12/12**			**12/13/12**
			VOCMS Group1	8260-Low			12/15/12	
D5165-04	**MW-GF-6**	**WATER**			**12/12/12**			**12/13/12**
			VOCMS Group1	8260-Low			12/15/12	
D5165-05	**MW-GF-9**	**WATER**			**12/12/12**			**12/13/12**
			VOCMS Group1	8260-Low			12/15/12	
D5165-06	**MW-34S**	**WATER**			**12/12/12**			**12/13/12**
			VOCMS Group1	8260-Low			12/15/12	
D5165-07	**MW-GF-7**	**WATER**			**12/12/12**			**12/13/12**
			VOCMS Group1	8260-Low			12/15/12	
D5165-08	**MW-36S**	**WATER**			**12/12/12**			**12/13/12**
			VOCMS Group1	8260-Low			12/15/12	
D5165-09	**MW-GF-18**	**WATER**			**12/12/12**			**12/13/12**
			VOCMS Group1	8260-Low			12/17/12	
D5165-12	**EQUIPMENTBLANK**	**WATER**			**12/12/12**			**12/13/12**
			VOCMS Group1	8260-Low			12/15/12	
D5165-13	**MW-GF-15**	**WATER**			**12/13/12**			**12/13/12**
			VOCMS Group1	8260-Low			12/15/12	
D5165-14	**MW-GF-17**	**WATER**			**12/13/12**			**12/13/12**
			VOCMS Group1	8260-Low			12/15/12	

LAB CHRONICLE

D5165-15	**MW-1-60**	**WATER**			**12/13/12**		**12/13/12**
			VOCMS Group1	8260-Low		12/15/12	
D5165-18	**DMW-5**	**WATER**			**12/13/12**		**12/13/12**
			VOCMS Group1	8260-Low		12/15/12	
D5165-19	**EQUIPMENTBLANK**	**WATER**			**12/13/12**		**12/13/12**
			VOCMS Group1	8260-Low		12/15/12	

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Hit Summary Sheet
SW-846

SDG No.: D5165

Client: TRC Companies, Inc.

Sample ID	Client ID		Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID:	**DMW-5**								
D5165-18	DMW-5	WATER	Trichlorofluoromethane	1.10		0.35	0.5	1.0	ug/L
D5165-18	DMW-5	WATER	Tetrachloroethene	2.40		0.27	0.5	1.0	ug/L
			Total Voc :		**3.50**				
			Total Concentration:		**3.50**				
Client ID:	**DUP-A**								
D5165-02	DUP-A	WATER	cis-1,2-Dichloroethene	2.20		0.35	0.5	1.0	ug/L
D5165-02	DUP-A	WATER	Trichloroethene	2.90		0.28	0.5	1.0	ug/L
D5165-02	DUP-A	WATER	Tetrachloroethene	37.00		0.27	0.5	1.0	ug/L
			Total Voc :		**42.10**				
			Total Concentration:		**42.10**				
Client ID:	**EQUIPMENTBLANK**								
D5165-12	EQUIPMENTBLANK	WATER	Acetone	2.80	J	0.50	2.5	5.0	ug/L
D5165-12	EQUIPMENTBLANK	WATER	Methylene Chloride	3.90		0.41	0.5	1.0	ug/L
D5165-12	EQUIPMENTBLANK	WATER	2-Butanone	5.10		1.3	2.5	5.0	ug/L
			Total Voc :		**11.80**				
			Total Concentration:		**11.80**				
Client ID:	**MW-1-60**								
D5165-15	MW-1-60	WATER	Trichlorofluoromethane	0.99	J	0.35	0.5	1.0	ug/L
D5165-15	MW-1-60	WATER	Tetrachloroethene	3.20		0.27	0.5	1.0	ug/L
			Total Voc :		**4.19**				
			Total Concentration:		**4.19**				
Client ID:	**MW-35S**								
D5165-03	MW-35S	WATER	Isopropylbenzene	1.80		0.45	0.5	1.0	ug/L
D5165-03	MW-35S	WATER	tert-Butylbenzene	0.94	J	0.44	0.5	1.0	ug/L
D5165-03	MW-35S	WATER	sec-Butylbenzene	4.10		0.46	0.5	1.0	ug/L
D5165-03	MW-35S	WATER	n-Butylbenzene	2.40		0.41	0.5	1.0	ug/L
			Total Voc :		**9.24**				
			Total Concentration:		**9.24**				
Client ID:	**MW-36S**								
D5165-08	MW-36S	WATER	Isopropylbenzene	3.40		0.45	0.5	1.0	ug/L
D5165-08	MW-36S	WATER	n-propylbenzene	2.90		0.45	0.5	1.0	ug/L
D5165-08	MW-36S	WATER	tert-Butylbenzene	1.40		0.44	0.5	1.0	ug/L
D5165-08	MW-36S	WATER	sec-Butylbenzene	5.90		0.46	0.5	1.0	ug/L
D5165-08	MW-36S	WATER	n-Butylbenzene	2.80		0.41	0.5	1.0	ug/L
			Total Voc :		**16.40**				
			Total Concentration:		**16.40**				
Client ID:	**MW-39S**								
D5165-01	MW-39S	WATER	cis-1,2-Dichloroethene	2.30		0.35	0.5	1.0	ug/L
D5165-01	MW-39S	WATER	Trichloroethene	2.80		0.28	0.5	1.0	ug/L

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Hit Summary Sheet
SW-846

SDG No.: D5165

Client: TRC Companies, Inc.

Sample ID	Client ID		Parameter	Concentration	C	MDL	LOD	RDL	Units
D5165-01	MW-39S	WATER	Tetrachloroethene	37.00		0.27	0.5	1.0	ug/L
			Total Voc :	**42.10**					
			Total Concentration:	**42.10**					
Client ID:	**MW-GF-15**								
D5165-13	MW-GF-15	WATER	cis-1,2-Dichloroethene	0.42	J	0.35	0.5	1.0	ug/L
D5165-13	MW-GF-15	WATER	Isopropylbenzene	2.10		0.45	0.5	1.0	ug/L
D5165-13	MW-GF-15	WATER	n-propylbenzene	3.10		0.45	0.5	1.0	ug/L
D5165-13	MW-GF-15	WATER	tert-Butylbenzene	0.60	J	0.44	0.5	1.0	ug/L
D5165-13	MW-GF-15	WATER	sec-Butylbenzene	4.90		0.46	0.5	1.0	ug/L
D5165-13	MW-GF-15	WATER	n-Butylbenzene	3.20		0.41	0.5	1.0	ug/L
			Total Voc :	**14.32**					
			Total Concentration:	**14.32**					
Client ID:	**MW-GF-17**								
D5165-14	MW-GF-17	WATER	Chloroform	2.00		0.34	0.5	1.0	ug/L
D5165-14	MW-GF-17	WATER	Trichloroethene	1.30		0.28	0.5	1.0	ug/L
D5165-14	MW-GF-17	WATER	Tetrachloroethene	12.00		0.27	0.5	1.0	ug/L
			Total Voc :	**15.30**					
			Total Concentration:	**15.30**					
Client ID:	**MW-GF-18**								
D5165-09	MW-GF-18	WATER	Isopropylbenzene	3.60		0.45	0.5	1.0	ug/L
D5165-09	MW-GF-18	WATER	n-propylbenzene	2.20		0.45	0.5	1.0	ug/L
D5165-09	MW-GF-18	WATER	tert-Butylbenzene	1.40		0.44	0.5	1.0	ug/L
D5165-09	MW-GF-18	WATER	sec-Butylbenzene	5.30		0.46	0.5	1.0	ug/L
D5165-09	MW-GF-18	WATER	n-Butylbenzene	3.70		0.41	0.5	1.0	ug/L
			Total Voc :	**16.20**					
			Total Concentration:	**16.20**					
Client ID:	**MW-GF-7**								
D5165-07	MW-GF-7	WATER	Isopropylbenzene	4.90		0.45	0.5	1.0	ug/L
D5165-07	MW-GF-7	WATER	n-propylbenzene	1.80		0.45	0.5	1.0	ug/L
D5165-07	MW-GF-7	WATER	tert-Butylbenzene	1.20		0.44	0.5	1.0	ug/L
D5165-07	MW-GF-7	WATER	sec-Butylbenzene	7.60		0.46	0.5	1.0	ug/L
D5165-07	MW-GF-7	WATER	n-Butylbenzene	4.00		0.41	0.5	1.0	ug/L
			Total Voc :	**19.50**					
			Total Concentration:	**19.50**					

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Hit Summary Sheet
SW-846

SDG No.: D5165

Client: TRC Companies, Inc.

Sample ID	Client ID	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID:	**EQUIPMENTBLANK**							
D5165-19	EQUIPMENTBLANK WATER	Acetone	4.90	J	0.50	2.5	5.0	ug/L
		Total Voc :	**4.90**					
		Total Concentration:	**4.90**					

SAMPLE DATA

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/12/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-39S	SDG No.:	D5165
Lab Sample ID:	D5165-01	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003309.D	1		12/15/12	vn121512

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.5	U	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.5	U	0.47	0.5	1	ug/L
67-64-1	Acetone	2.5	U	0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.5	U	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
108-05-4	Vinyl Acetate	2.5	U	1	2.5	5	ug/L
75-34-3	1,1-Dichloroethane	0.5	U	0.36	0.5	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
594-20-7	2,2-Dichloropropane	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	2.3		0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.5	U	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
563-58-6	1,1-Dichloropropene	0.5	U	0.39	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	2.8		0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
74-95-3	Dibromomethane	0.5	U	0.44	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/12/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-39S	SDG No.:	D5165
Lab Sample ID:	D5165-01	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003309.D	1		12/15/12	vn121512

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
142-28-9	1,3-Dichloropropane	0.5	U	0.35	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.2	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	37		0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	0.5	U	0.43	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
96-18-4	1,2,3-Trichloropropane	0.5	U	0.5	0.5	1	ug/L
108-86-1	Bromobenzene	0.5	U	0.2	0.5	1	ug/L
103-65-1	n-propylbenzene	0.5	U	0.45	0.5	1	ug/L
95-49-8	2-Chlorotoluene	0.5	U	0.43	0.5	1	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.5	U	0.46	0.5	1	ug/L
106-43-4	4-Chlorotoluene	0.5	U	0.42	0.5	1	ug/L
98-06-6	tert-Butylbenzene	0.5	U	0.44	0.5	1	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.5	U	0.38	0.5	1	ug/L
135-98-8	sec-Butylbenzene	0.5	U	0.46	0.5	1	ug/L
99-87-6	p-Isopropyltoluene	0.5	U	0.43	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
104-51-8	n-Butylbenzene	0.5	U	0.41	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/12/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-39S	SDG No.:	D5165
Lab Sample ID:	D5165-01	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003309.D	1		12/15/12	vn121512

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
87-68-3	Hexachlorobutadiene	0.5	U	0.2	0.5	1	ug/L
91-20-3	Naphthalene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
74-88-4	Methyl Iodide	0.5	U	0.2	0.5	1	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	47		61 - 141		94%	SPK: 50
1868-53-7	Dibromofluoromethane	47.3		69 - 133		95%	SPK: 50
2037-26-5	Toluene-d8	47.8		65 - 126		96%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.9		58 - 135		94%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	721168	7.87				
540-36-3	1,4-Difluorobenzene	1125660	8.79				
3114-55-4	Chlorobenzene-d5	1019710	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	516615	13.57				

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/12/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	DUP-A	SDG No.:	D5165
Lab Sample ID:	D5165-02	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003310.D	1		12/15/12	vn121512

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.5	U	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.5	U	0.47	0.5	1	ug/L
67-64-1	Acetone	2.5	U	0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.5	U	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
108-05-4	Vinyl Acetate	2.5	U	1	2.5	5	ug/L
75-34-3	1,1-Dichloroethane	0.5	U	0.36	0.5	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
594-20-7	2,2-Dichloropropane	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	2.2		0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.5	U	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
563-58-6	1,1-Dichloropropene	0.5	U	0.39	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	2.9		0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
74-95-3	Dibromomethane	0.5	U	0.44	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/12/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	DUP-A	SDG No.:	D5165
Lab Sample ID:	D5165-02	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003310.D	1		12/15/12	vn121512

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
142-28-9	1,3-Dichloropropane	0.5	U	0.35	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.2	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	37		0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	0.5	U	0.43	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
96-18-4	1,2,3-Trichloropropane	0.5	U	0.5	0.5	1	ug/L
108-86-1	Bromobenzene	0.5	U	0.2	0.5	1	ug/L
103-65-1	n-propylbenzene	0.5	U	0.45	0.5	1	ug/L
95-49-8	2-Chlorotoluene	0.5	U	0.43	0.5	1	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.5	U	0.46	0.5	1	ug/L
106-43-4	4-Chlorotoluene	0.5	U	0.42	0.5	1	ug/L
98-06-6	tert-Butylbenzene	0.5	U	0.44	0.5	1	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.5	U	0.38	0.5	1	ug/L
135-98-8	sec-Butylbenzene	0.5	U	0.46	0.5	1	ug/L
99-87-6	p-Isopropyltoluene	0.5	U	0.43	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
104-51-8	n-Butylbenzene	0.5	U	0.41	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	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:	12/12/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	DUP-A	SDG No.:	D5165
Lab Sample ID:	D5165-02	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003310.D	1		12/15/12	vn121512

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
87-68-3	Hexachlorobutadiene	0.5	U	0.2	0.5	1	ug/L
91-20-3	Naphthalene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
74-88-4	Methyl Iodide	0.5	U	0.2	0.5	1	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	46.7		61 - 141		93%	SPK: 50
1868-53-7	Dibromofluoromethane	47.8		69 - 133		96%	SPK: 50
2037-26-5	Toluene-d8	47.9		65 - 126		96%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.1		58 - 135		92%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	734927	7.87				
540-36-3	1,4-Difluorobenzene	1136510	8.79				
3114-55-4	Chlorobenzene-d5	1035700	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	524741	13.57				

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/12/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-35S	SDG No.:	D5165
Lab Sample ID:	D5165-03	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003311.D	1		12/15/12	vn121512

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.5	U	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.5	U	0.47	0.5	1	ug/L
67-64-1	Acetone	2.5	U	0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.5	U	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
108-05-4	Vinyl Acetate	2.5	U	1	2.5	5	ug/L
75-34-3	1,1-Dichloroethane	0.5	U	0.36	0.5	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
594-20-7	2,2-Dichloropropane	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.5	U	0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.5	U	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
563-58-6	1,1-Dichloropropene	0.5	U	0.39	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	0.5	U	0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
74-95-3	Dibromomethane	0.5	U	0.44	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/12/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-35S	SDG No.:	D5165
Lab Sample ID:	D5165-03	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003311.D	1		12/15/12	vn121512

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
142-28-9	1,3-Dichloropropane	0.5	U	0.35	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.2	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	0.5	U	0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	0.5	U	0.43	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	1.8		0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
96-18-4	1,2,3-Trichloropropane	0.5	U	0.5	0.5	1	ug/L
108-86-1	Bromobenzene	0.5	U	0.2	0.5	1	ug/L
103-65-1	n-propylbenzene	0.5	U	0.45	0.5	1	ug/L
95-49-8	2-Chlorotoluene	0.5	U	0.43	0.5	1	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.5	U	0.46	0.5	1	ug/L
106-43-4	4-Chlorotoluene	0.5	U	0.42	0.5	1	ug/L
98-06-6	tert-Butylbenzene	0.94	J	0.44	0.5	1	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.5	U	0.38	0.5	1	ug/L
135-98-8	sec-Butylbenzene	4.1		0.46	0.5	1	ug/L
99-87-6	p-Isopropyltoluene	0.5	U	0.43	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
104-51-8	n-Butylbenzene	2.4		0.41	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/12/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-35S	SDG No.:	D5165
Lab Sample ID:	D5165-03	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003311.D	1		12/15/12	vn121512

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
87-68-3	Hexachlorobutadiene	0.5	U	0.2	0.5	1	ug/L
91-20-3	Naphthalene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
74-88-4	Methyl Iodide	0.5	U	0.2	0.5	1	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	46.8		61 - 141		94%	SPK: 50
1868-53-7	Dibromofluoromethane	47.3		69 - 133		95%	SPK: 50
2037-26-5	Toluene-d8	47.6		65 - 126		95%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.8		58 - 135		94%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	730516	7.87				
540-36-3	1,4-Difluorobenzene	1139350	8.79				
3114-55-4	Chlorobenzene-d5	1031420	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	536332	13.57				

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/12/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-GF-6	SDG No.:	D5165
Lab Sample ID:	D5165-04	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003312.D	1		12/15/12	vn121512

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.5	U	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.5	U	0.47	0.5	1	ug/L
67-64-1	Acetone	2.5	U	0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.5	U	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
108-05-4	Vinyl Acetate	2.5	U	1	2.5	5	ug/L
75-34-3	1,1-Dichloroethane	0.5	U	0.36	0.5	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
594-20-7	2,2-Dichloropropane	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.5	U	0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.5	U	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
563-58-6	1,1-Dichloropropene	0.5	U	0.39	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	0.5	U	0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
74-95-3	Dibromomethane	0.5	U	0.44	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/12/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-GF-6	SDG No.:	D5165
Lab Sample ID:	D5165-04	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003312.D	1		12/15/12	vn121512

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
142-28-9	1,3-Dichloropropane	0.5	U	0.35	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.2	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	0.5	U	0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	0.5	U	0.43	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
96-18-4	1,2,3-Trichloropropane	0.5	U	0.5	0.5	1	ug/L
108-86-1	Bromobenzene	0.5	U	0.2	0.5	1	ug/L
103-65-1	n-propylbenzene	0.5	U	0.45	0.5	1	ug/L
95-49-8	2-Chlorotoluene	0.5	U	0.43	0.5	1	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.5	U	0.46	0.5	1	ug/L
106-43-4	4-Chlorotoluene	0.5	U	0.42	0.5	1	ug/L
98-06-6	tert-Butylbenzene	0.5	U	0.44	0.5	1	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.5	U	0.38	0.5	1	ug/L
135-98-8	sec-Butylbenzene	0.5	U	0.46	0.5	1	ug/L
99-87-6	p-Isopropyltoluene	0.5	U	0.43	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
104-51-8	n-Butylbenzene	0.5	U	0.41	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/12/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-GF-6	SDG No.:	D5165
Lab Sample ID:	D5165-04	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003312.D	1		12/15/12	vn121512

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
87-68-3	Hexachlorobutadiene	0.5	U	0.2	0.5	1	ug/L
91-20-3	Naphthalene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
74-88-4	Methyl Iodide	0.5	U	0.2	0.5	1	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	47.5		61 - 141		95%	SPK: 50
1868-53-7	Dibromofluoromethane	47		69 - 133		94%	SPK: 50
2037-26-5	Toluene-d8	47.5		65 - 126		95%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.5		58 - 135		93%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	721610	7.87				
540-36-3	1,4-Difluorobenzene	1144030	8.79				
3114-55-4	Chlorobenzene-d5	1039990	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	531642	13.57				

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/12/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-GF-9	SDG No.:	D5165
Lab Sample ID:	D5165-05	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003313.D	1		12/15/12	vn121512

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.5	U	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.5	U	0.47	0.5	1	ug/L
67-64-1	Acetone	2.5	U	0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.5	U	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
108-05-4	Vinyl Acetate	2.5	U	1	2.5	5	ug/L
75-34-3	1,1-Dichloroethane	0.5	U	0.36	0.5	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
594-20-7	2,2-Dichloropropane	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.5	U	0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.5	U	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
563-58-6	1,1-Dichloropropene	0.5	U	0.39	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	0.5	U	0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
74-95-3	Dibromomethane	0.5	U	0.44	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/12/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-GF-9	SDG No.:	D5165
Lab Sample ID:	D5165-05	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003313.D	1		12/15/12	vn121512

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
142-28-9	1,3-Dichloropropane	0.5	U	0.35	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.2	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	0.5	U	0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	0.5	U	0.43	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
96-18-4	1,2,3-Trichloropropane	0.5	U	0.5	0.5	1	ug/L
108-86-1	Bromobenzene	0.5	U	0.2	0.5	1	ug/L
103-65-1	n-propylbenzene	0.5	U	0.45	0.5	1	ug/L
95-49-8	2-Chlorotoluene	0.5	U	0.43	0.5	1	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.5	U	0.46	0.5	1	ug/L
106-43-4	4-Chlorotoluene	0.5	U	0.42	0.5	1	ug/L
98-06-6	tert-Butylbenzene	0.5	U	0.44	0.5	1	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.5	U	0.38	0.5	1	ug/L
135-98-8	sec-Butylbenzene	0.5	U	0.46	0.5	1	ug/L
99-87-6	p-Isopropyltoluene	0.5	U	0.43	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
104-51-8	n-Butylbenzene	0.5	U	0.41	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/12/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-GF-9	SDG No.:	D5165
Lab Sample ID:	D5165-05	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003313.D	1		12/15/12	vn121512

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
87-68-3	Hexachlorobutadiene	0.5	U	0.2	0.5	1	ug/L
91-20-3	Naphthalene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
74-88-4	Methyl Iodide	0.5	U	0.2	0.5	1	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	46.6		61 - 141		93%	SPK: 50
1868-53-7	Dibromofluoromethane	47.4		69 - 133		95%	SPK: 50
2037-26-5	Toluene-d8	48.2		65 - 126		96%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.5		58 - 135		93%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	734732	7.87				
540-36-3	1,4-Difluorobenzene	1141610	8.79				
3114-55-4	Chlorobenzene-d5	1046270	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	529141	13.57				

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/12/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-34S	SDG No.:	D5165
Lab Sample ID:	D5165-06	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003314.D	1		12/15/12	vn121512

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.5	U	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.5	U	0.47	0.5	1	ug/L
67-64-1	Acetone	2.5	U	0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.5	U	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
108-05-4	Vinyl Acetate	2.5	U	1	2.5	5	ug/L
75-34-3	1,1-Dichloroethane	0.5	U	0.36	0.5	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
594-20-7	2,2-Dichloropropane	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.5	U	0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.5	U	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
563-58-6	1,1-Dichloropropene	0.5	U	0.39	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	0.5	U	0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
74-95-3	Dibromomethane	0.5	U	0.44	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/12/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-34S	SDG No.:	D5165
Lab Sample ID:	D5165-06	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003314.D	1		12/15/12	vn121512

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
142-28-9	1,3-Dichloropropane	0.5	U	0.35	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.2	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	0.5	U	0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	0.5	U	0.43	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
96-18-4	1,2,3-Trichloropropane	0.5	U	0.5	0.5	1	ug/L
108-86-1	Bromobenzene	0.5	U	0.2	0.5	1	ug/L
103-65-1	n-propylbenzene	0.5	U	0.45	0.5	1	ug/L
95-49-8	2-Chlorotoluene	0.5	U	0.43	0.5	1	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.5	U	0.46	0.5	1	ug/L
106-43-4	4-Chlorotoluene	0.5	U	0.42	0.5	1	ug/L
98-06-6	tert-Butylbenzene	0.5	U	0.44	0.5	1	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.5	U	0.38	0.5	1	ug/L
135-98-8	sec-Butylbenzene	0.5	U	0.46	0.5	1	ug/L
99-87-6	p-Isopropyltoluene	0.5	U	0.43	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
104-51-8	n-Butylbenzene	0.5	U	0.41	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/12/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-34S	SDG No.:	D5165
Lab Sample ID:	D5165-06	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003314.D	1		12/15/12	vn121512

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
87-68-3	Hexachlorobutadiene	0.5	U	0.2	0.5	1	ug/L
91-20-3	Naphthalene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
74-88-4	Methyl Iodide	0.5	U	0.2	0.5	1	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	47.4		61 - 141		95%	SPK: 50
1868-53-7	Dibromofluoromethane	47.8		69 - 133		96%	SPK: 50
2037-26-5	Toluene-d8	48.5		65 - 126		97%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.3		58 - 135		95%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	727916	7.87				
540-36-3	1,4-Difluorobenzene	1132830	8.79				
3114-55-4	Chlorobenzene-d5	1049250	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	530537	13.57				

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/12/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-GF-7	SDG No.:	D5165
Lab Sample ID:	D5165-07	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003315.D	1		12/15/12	vn121512

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.5	U	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.5	U	0.47	0.5	1	ug/L
67-64-1	Acetone	2.5	U	0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.5	U	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
108-05-4	Vinyl Acetate	2.5	U	1	2.5	5	ug/L
75-34-3	1,1-Dichloroethane	0.5	U	0.36	0.5	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
594-20-7	2,2-Dichloropropane	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.5	U	0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.5	U	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
563-58-6	1,1-Dichloropropene	0.5	U	0.39	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	0.5	U	0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
74-95-3	Dibromomethane	0.5	U	0.44	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/12/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-GF-7	SDG No.:	D5165
Lab Sample ID:	D5165-07	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003315.D	1		12/15/12	vn121512

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
142-28-9	1,3-Dichloropropane	0.5	U	0.35	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.2	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	0.5	U	0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	0.5	U	0.43	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	4.9		0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
96-18-4	1,2,3-Trichloropropane	0.5	U	0.5	0.5	1	ug/L
108-86-1	Bromobenzene	0.5	U	0.2	0.5	1	ug/L
103-65-1	n-propylbenzene	1.8		0.45	0.5	1	ug/L
95-49-8	2-Chlorotoluene	0.5	U	0.43	0.5	1	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.5	U	0.46	0.5	1	ug/L
106-43-4	4-Chlorotoluene	0.5	U	0.42	0.5	1	ug/L
98-06-6	tert-Butylbenzene	1.2		0.44	0.5	1	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.5	U	0.38	0.5	1	ug/L
135-98-8	sec-Butylbenzene	7.6		0.46	0.5	1	ug/L
99-87-6	p-Isopropyltoluene	0.5	U	0.43	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
104-51-8	n-Butylbenzene	4		0.41	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/12/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-GF-7	SDG No.:	D5165
Lab Sample ID:	D5165-07	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003315.D	1		12/15/12	vn121512

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
87-68-3	Hexachlorobutadiene	0.5	U	0.2	0.5	1	ug/L
91-20-3	Naphthalene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
74-88-4	Methyl Iodide	0.5	U	0.2	0.5	1	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	46.9		61 - 141		94%	SPK: 50
1868-53-7	Dibromofluoromethane	47.3		69 - 133		95%	SPK: 50
2037-26-5	Toluene-d8	48		65 - 126		96%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.3		58 - 135		95%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	714693	7.87				
540-36-3	1,4-Difluorobenzene	1111480	8.79				
3114-55-4	Chlorobenzene-d5	1010410	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	528428	13.57				

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/12/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-36S	SDG No.:	D5165
Lab Sample ID:	D5165-08	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003316.D	1		12/15/12	vn121512

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.5	U	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.5	U	0.47	0.5	1	ug/L
67-64-1	Acetone	2.5	U	0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.5	U	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
108-05-4	Vinyl Acetate	2.5	U	1	2.5	5	ug/L
75-34-3	1,1-Dichloroethane	0.5	U	0.36	0.5	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
594-20-7	2,2-Dichloropropane	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.5	U	0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.5	U	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
563-58-6	1,1-Dichloropropene	0.5	U	0.39	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	0.5	U	0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
74-95-3	Dibromomethane	0.5	U	0.44	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/12/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-36S	SDG No.:	D5165
Lab Sample ID:	D5165-08	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003316.D	1		12/15/12	vn121512

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
142-28-9	1,3-Dichloropropane	0.5	U	0.35	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.2	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	0.5	U	0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	0.5	U	0.43	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	3.4		0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
96-18-4	1,2,3-Trichloropropane	0.5	U	0.5	0.5	1	ug/L
108-86-1	Bromobenzene	0.5	U	0.2	0.5	1	ug/L
103-65-1	n-propylbenzene	2.9		0.45	0.5	1	ug/L
95-49-8	2-Chlorotoluene	0.5	U	0.43	0.5	1	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.5	U	0.46	0.5	1	ug/L
106-43-4	4-Chlorotoluene	0.5	U	0.42	0.5	1	ug/L
98-06-6	tert-Butylbenzene	1.4		0.44	0.5	1	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.5	U	0.38	0.5	1	ug/L
135-98-8	sec-Butylbenzene	5.9		0.46	0.5	1	ug/L
99-87-6	p-Isopropyltoluene	0.5	U	0.43	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
104-51-8	n-Butylbenzene	2.8		0.41	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/12/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-36S	SDG No.:	D5165
Lab Sample ID:	D5165-08	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003316.D	1		12/15/12	vn121512

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
87-68-3	Hexachlorobutadiene	0.5	U	0.2	0.5	1	ug/L
91-20-3	Naphthalene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
74-88-4	Methyl Iodide	0.5	U	0.2	0.5	1	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	46.6		61 - 141		93%	SPK: 50
1868-53-7	Dibromofluoromethane	47.2		69 - 133		94%	SPK: 50
2037-26-5	Toluene-d8	47.6		65 - 126		95%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.3		58 - 135		95%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	755583	7.87				
540-36-3	1,4-Difluorobenzene	1192880	8.79				
3114-55-4	Chlorobenzene-d5	1099060	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	583595	13.57				

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/12/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-GF-18	SDG No.:	D5165
Lab Sample ID:	D5165-09	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003361.D	1		12/17/12	VN121712

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.5	U	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.5	U	0.47	0.5	1	ug/L
67-64-1	Acetone	2.5	U	0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.5	U	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
108-05-4	Vinyl Acetate	2.5	U	1	2.5	5	ug/L
75-34-3	1,1-Dichloroethane	0.5	U	0.36	0.5	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
594-20-7	2,2-Dichloropropane	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.5	U	0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.5	U	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
563-58-6	1,1-Dichloropropene	0.5	U	0.39	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	0.5	U	0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
74-95-3	Dibromomethane	0.5	U	0.44	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/12/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-GF-18	SDG No.:	D5165
Lab Sample ID:	D5165-09	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003361.D	1		12/17/12	VN121712

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
142-28-9	1,3-Dichloropropane	0.5	U	0.35	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.2	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	0.5	U	0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	0.5	U	0.43	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	3.6		0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
96-18-4	1,2,3-Trichloropropane	0.5	U	0.5	0.5	1	ug/L
108-86-1	Bromobenzene	0.5	U	0.2	0.5	1	ug/L
103-65-1	n-propylbenzene	2.2		0.45	0.5	1	ug/L
95-49-8	2-Chlorotoluene	0.5	U	0.43	0.5	1	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.5	U	0.46	0.5	1	ug/L
106-43-4	4-Chlorotoluene	0.5	U	0.42	0.5	1	ug/L
98-06-6	tert-Butylbenzene	1.4		0.44	0.5	1	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.5	U	0.38	0.5	1	ug/L
135-98-8	sec-Butylbenzene	5.3		0.46	0.5	1	ug/L
99-87-6	p-Isopropyltoluene	0.5	U	0.43	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
104-51-8	n-Butylbenzene	3.7		0.41	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/12/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-GF-18	SDG No.:	D5165
Lab Sample ID:	D5165-09	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003361.D	1		12/17/12	VN121712

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
87-68-3	Hexachlorobutadiene	0.5	U	0.2	0.5	1	ug/L
91-20-3	Naphthalene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
74-88-4	Methyl Iodide	0.5	U	0.2	0.5	1	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	47		61 - 141		94%	SPK: 50
1868-53-7	Dibromofluoromethane	47		69 - 133		94%	SPK: 50
2037-26-5	Toluene-d8	47.4		65 - 126		95%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.2		58 - 135		94%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	871743	7.87				
540-36-3	1,4-Difluorobenzene	1398970	8.79				
3114-55-4	Chlorobenzene-d5	1270320	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	632310	13.57				

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/12/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	EQUIPMENTBLANK	SDG No.:	D5165
Lab Sample ID:	D5165-12	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003307.D	1		12/15/12	vn121512

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.5	U	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.5	U	0.47	0.5	1	ug/L
67-64-1	Acetone	2.8	J	0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.5	U	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
75-09-2	Methylene Chloride	3.9		0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
108-05-4	Vinyl Acetate	2.5	U	1	2.5	5	ug/L
75-34-3	1,1-Dichloroethane	0.5	U	0.36	0.5	1	ug/L
78-93-3	2-Butanone	5.1		1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
594-20-7	2,2-Dichloropropane	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.5	U	0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.5	U	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
563-58-6	1,1-Dichloropropene	0.5	U	0.39	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	0.5	U	0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
74-95-3	Dibromomethane	0.5	U	0.44	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/12/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	EQUIPMENTBLANK	SDG No.:	D5165
Lab Sample ID:	D5165-12	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003307.D	1		12/15/12	vn121512

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
142-28-9	1,3-Dichloropropane	0.5	U	0.35	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.2	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	0.5	U	0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	0.5	U	0.43	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
96-18-4	1,2,3-Trichloropropane	0.5	U	0.5	0.5	1	ug/L
108-86-1	Bromobenzene	0.5	U	0.2	0.5	1	ug/L
103-65-1	n-propylbenzene	0.5	U	0.45	0.5	1	ug/L
95-49-8	2-Chlorotoluene	0.5	U	0.43	0.5	1	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.5	U	0.46	0.5	1	ug/L
106-43-4	4-Chlorotoluene	0.5	U	0.42	0.5	1	ug/L
98-06-6	tert-Butylbenzene	0.5	U	0.44	0.5	1	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.5	U	0.38	0.5	1	ug/L
135-98-8	sec-Butylbenzene	0.5	U	0.46	0.5	1	ug/L
99-87-6	p-Isopropyltoluene	0.5	U	0.43	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
104-51-8	n-Butylbenzene	0.5	U	0.41	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	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:	12/12/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	EQUIPMENTBLANK	SDG No.:	D5165
Lab Sample ID:	D5165-12	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003307.D	1		12/15/12	vn121512

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
87-68-3	Hexachlorobutadiene	0.5	U	0.2	0.5	1	ug/L
91-20-3	Naphthalene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
74-88-4	Methyl Iodide	0.5	U	0.2	0.5	1	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	46.6		61 - 141		93%	SPK: 50
1868-53-7	Dibromofluoromethane	47.2		69 - 133		94%	SPK: 50
2037-26-5	Toluene-d8	48.2		65 - 126		97%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.8		58 - 135		92%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	763264	7.87				
540-36-3	1,4-Difluorobenzene	1191600	8.79				
3114-55-4	Chlorobenzene-d5	1086670	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	542543	13.57				

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/13/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-GF-15	SDG No.:	D5165
Lab Sample ID:	D5165-13	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003317.D	1		12/15/12	vn121512

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.5	U	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.5	U	0.47	0.5	1	ug/L
67-64-1	Acetone	2.5	U	0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.5	U	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
108-05-4	Vinyl Acetate	2.5	U	1	2.5	5	ug/L
75-34-3	1,1-Dichloroethane	0.5	U	0.36	0.5	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
594-20-7	2,2-Dichloropropane	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.42	J	0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.5	U	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
563-58-6	1,1-Dichloropropene	0.5	U	0.39	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	0.5	U	0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
74-95-3	Dibromomethane	0.5	U	0.44	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/13/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-GF-15	SDG No.:	D5165
Lab Sample ID:	D5165-13	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003317.D	1		12/15/12	vn121512

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
142-28-9	1,3-Dichloropropane	0.5	U	0.35	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.2	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	0.5	U	0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	0.5	U	0.43	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	2.1		0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
96-18-4	1,2,3-Trichloropropane	0.5	U	0.5	0.5	1	ug/L
108-86-1	Bromobenzene	0.5	U	0.2	0.5	1	ug/L
103-65-1	n-propylbenzene	3.1		0.45	0.5	1	ug/L
95-49-8	2-Chlorotoluene	0.5	U	0.43	0.5	1	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.5	U	0.46	0.5	1	ug/L
106-43-4	4-Chlorotoluene	0.5	U	0.42	0.5	1	ug/L
98-06-6	tert-Butylbenzene	0.6	J	0.44	0.5	1	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.5	U	0.38	0.5	1	ug/L
135-98-8	sec-Butylbenzene	4.9		0.46	0.5	1	ug/L
99-87-6	p-Isopropyltoluene	0.5	U	0.43	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
104-51-8	n-Butylbenzene	3.2		0.41	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/13/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-GF-15	SDG No.:	D5165
Lab Sample ID:	D5165-13	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003317.D	1		12/15/12	vn121512

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
87-68-3	Hexachlorobutadiene	0.5	U	0.2	0.5	1	ug/L
91-20-3	Naphthalene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
74-88-4	Methyl Iodide	0.5	U	0.2	0.5	1	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	46.7		61 - 141		93%	SPK: 50
1868-53-7	Dibromofluoromethane	47.8		69 - 133		96%	SPK: 50
2037-26-5	Toluene-d8	48		65 - 126		96%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.6		58 - 135		95%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	769432	7.87				
540-36-3	1,4-Difluorobenzene	1220400	8.79				
3114-55-4	Chlorobenzene-d5	1114610	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	639583	13.57				

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/13/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-GF-17	SDG No.:	D5165
Lab Sample ID:	D5165-14	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003318.D	1		12/15/12	vn121512

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.5	U	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.5	U	0.47	0.5	1	ug/L
67-64-1	Acetone	2.5	U	0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.5	U	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
108-05-4	Vinyl Acetate	2.5	U	1	2.5	5	ug/L
75-34-3	1,1-Dichloroethane	0.5	U	0.36	0.5	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
594-20-7	2,2-Dichloropropane	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.5	U	0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	2		0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
563-58-6	1,1-Dichloropropene	0.5	U	0.39	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	1.3		0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
74-95-3	Dibromomethane	0.5	U	0.44	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/13/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-GF-17	SDG No.:	D5165
Lab Sample ID:	D5165-14	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003318.D	1		12/15/12	vn121512

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
142-28-9	1,3-Dichloropropane	0.5	U	0.35	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.2	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	12		0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	0.5	U	0.43	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
96-18-4	1,2,3-Trichloropropane	0.5	U	0.5	0.5	1	ug/L
108-86-1	Bromobenzene	0.5	U	0.2	0.5	1	ug/L
103-65-1	n-propylbenzene	0.5	U	0.45	0.5	1	ug/L
95-49-8	2-Chlorotoluene	0.5	U	0.43	0.5	1	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.5	U	0.46	0.5	1	ug/L
106-43-4	4-Chlorotoluene	0.5	U	0.42	0.5	1	ug/L
98-06-6	tert-Butylbenzene	0.5	U	0.44	0.5	1	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.5	U	0.38	0.5	1	ug/L
135-98-8	sec-Butylbenzene	0.5	U	0.46	0.5	1	ug/L
99-87-6	p-Isopropyltoluene	0.5	U	0.43	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
104-51-8	n-Butylbenzene	0.5	U	0.41	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/13/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-GF-17	SDG No.:	D5165
Lab Sample ID:	D5165-14	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003318.D	1		12/15/12	vn121512

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
87-68-3	Hexachlorobutadiene	0.5	U	0.2	0.5	1	ug/L
91-20-3	Naphthalene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
74-88-4	Methyl Iodide	0.5	U	0.2	0.5	1	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	47.3		61 - 141		95%	SPK: 50
1868-53-7	Dibromofluoromethane	47.2		69 - 133		94%	SPK: 50
2037-26-5	Toluene-d8	48.2		65 - 126		96%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.6		58 - 135		97%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	820248	7.87				
540-36-3	1,4-Difluorobenzene	1312190	8.79				
3114-55-4	Chlorobenzene-d5	1208370	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	640971	13.57				

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/13/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-1-60	SDG No.:	D5165
Lab Sample ID:	D5165-15	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003292.D	1		12/15/12	VN121412

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.5	U	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.99	J	0.35	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.5	U	0.47	0.5	1	ug/L
67-64-1	Acetone	2.5	U	0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.5	U	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
108-05-4	Vinyl Acetate	2.5	U	1	2.5	5	ug/L
75-34-3	1,1-Dichloroethane	0.5	U	0.36	0.5	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
594-20-7	2,2-Dichloropropane	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.5	U	0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.5	U	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
563-58-6	1,1-Dichloropropene	0.5	U	0.39	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	0.5	U	0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
74-95-3	Dibromomethane	0.5	U	0.44	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/13/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-1-60	SDG No.:	D5165
Lab Sample ID:	D5165-15	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003292.D	1		12/15/12	VN121412

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
142-28-9	1,3-Dichloropropane	0.5	U	0.35	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.2	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	3.2		0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	0.5	U	0.43	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
96-18-4	1,2,3-Trichloropropane	0.5	U	0.5	0.5	1	ug/L
108-86-1	Bromobenzene	0.5	U	0.2	0.5	1	ug/L
103-65-1	n-propylbenzene	0.5	U	0.45	0.5	1	ug/L
95-49-8	2-Chlorotoluene	0.5	U	0.43	0.5	1	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.5	U	0.46	0.5	1	ug/L
106-43-4	4-Chlorotoluene	0.5	U	0.42	0.5	1	ug/L
98-06-6	tert-Butylbenzene	0.5	U	0.44	0.5	1	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.5	U	0.38	0.5	1	ug/L
135-98-8	sec-Butylbenzene	0.5	U	0.46	0.5	1	ug/L
99-87-6	p-Isopropyltoluene	0.5	U	0.43	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
104-51-8	n-Butylbenzene	0.5	U	0.41	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/13/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-1-60	SDG No.:	D5165
Lab Sample ID:	D5165-15	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003292.D	1		12/15/12	VN121412

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
87-68-3	Hexachlorobutadiene	0.5	U	0.2	0.5	1	ug/L
91-20-3	Naphthalene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
74-88-4	Methyl Iodide	0.5	U	0.2	0.5	1	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	45.9		61 - 141		92%	SPK: 50
1868-53-7	Dibromofluoromethane	48.4		69 - 133		97%	SPK: 50
2037-26-5	Toluene-d8	48		65 - 126		96%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.8		58 - 135		92%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	639054	7.87				
540-36-3	1,4-Difluorobenzene	987221	8.79				
3114-55-4	Chlorobenzene-d5	904254	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	452579	13.57				

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/13/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	DMW-5	SDG No.:	D5165
Lab Sample ID:	D5165-18	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003319.D	1		12/15/12	vn121512

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.5	U	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	1.1		0.35	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.5	U	0.47	0.5	1	ug/L
67-64-1	Acetone	2.5	U	0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.5	U	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
108-05-4	Vinyl Acetate	2.5	U	1	2.5	5	ug/L
75-34-3	1,1-Dichloroethane	0.5	U	0.36	0.5	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
594-20-7	2,2-Dichloropropane	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.5	U	0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.5	U	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
563-58-6	1,1-Dichloropropene	0.5	U	0.39	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	0.5	U	0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
74-95-3	Dibromomethane	0.5	U	0.44	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/13/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	DMW-5	SDG No.:	D5165
Lab Sample ID:	D5165-18	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003319.D	1		12/15/12	vn121512

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
142-28-9	1,3-Dichloropropane	0.5	U	0.35	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.2	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	2.4		0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	0.5	U	0.43	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
96-18-4	1,2,3-Trichloropropane	0.5	U	0.5	0.5	1	ug/L
108-86-1	Bromobenzene	0.5	U	0.2	0.5	1	ug/L
103-65-1	n-propylbenzene	0.5	U	0.45	0.5	1	ug/L
95-49-8	2-Chlorotoluene	0.5	U	0.43	0.5	1	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.5	U	0.46	0.5	1	ug/L
106-43-4	4-Chlorotoluene	0.5	U	0.42	0.5	1	ug/L
98-06-6	tert-Butylbenzene	0.5	U	0.44	0.5	1	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.5	U	0.38	0.5	1	ug/L
135-98-8	sec-Butylbenzene	0.5	U	0.46	0.5	1	ug/L
99-87-6	p-Isopropyltoluene	0.5	U	0.43	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
104-51-8	n-Butylbenzene	0.5	U	0.41	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	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:	12/13/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	DMW-5	SDG No.:	D5165
Lab Sample ID:	D5165-18	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003319.D	1		12/15/12	vn121512

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
87-68-3	Hexachlorobutadiene	0.5	U	0.2	0.5	1	ug/L
91-20-3	Naphthalene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
74-88-4	Methyl Iodide	0.5	U	0.2	0.5	1	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	47		61 - 141		94%	SPK: 50
1868-53-7	Dibromofluoromethane	47.5		69 - 133		95%	SPK: 50
2037-26-5	Toluene-d8	48.1		65 - 126		96%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.9		58 - 135		94%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	809859	7.87				
540-36-3	1,4-Difluorobenzene	1287410	8.79				
3114-55-4	Chlorobenzene-d5	1162150	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	588512	13.57				

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/13/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	EQUIPMENTBLANK	SDG No.:	D5165
Lab Sample ID:	D5165-19	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003308.D	1		12/15/12	vn121512

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.5	U	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.5	U	0.47	0.5	1	ug/L
67-64-1	Acetone	4.9	J	0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.5	U	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
108-05-4	Vinyl Acetate	2.5	U	1	2.5	5	ug/L
75-34-3	1,1-Dichloroethane	0.5	U	0.36	0.5	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
594-20-7	2,2-Dichloropropane	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.5	U	0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.5	U	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
563-58-6	1,1-Dichloropropene	0.5	U	0.39	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	0.5	U	0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
74-95-3	Dibromomethane	0.5	U	0.44	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/13/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	EQUIPMENTBLANK	SDG No.:	D5165
Lab Sample ID:	D5165-19	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003308.D	1		12/15/12	vn121512

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
142-28-9	1,3-Dichloropropane	0.5	U	0.35	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.2	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	0.5	U	0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	0.5	U	0.43	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
96-18-4	1,2,3-Trichloropropane	0.5	U	0.5	0.5	1	ug/L
108-86-1	Bromobenzene	0.5	U	0.2	0.5	1	ug/L
103-65-1	n-propylbenzene	0.5	U	0.45	0.5	1	ug/L
95-49-8	2-Chlorotoluene	0.5	U	0.43	0.5	1	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.5	U	0.46	0.5	1	ug/L
106-43-4	4-Chlorotoluene	0.5	U	0.42	0.5	1	ug/L
98-06-6	tert-Butylbenzene	0.5	U	0.44	0.5	1	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.5	U	0.38	0.5	1	ug/L
135-98-8	sec-Butylbenzene	0.5	U	0.46	0.5	1	ug/L
99-87-6	p-Isopropyltoluene	0.5	U	0.43	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
104-51-8	n-Butylbenzene	0.5	U	0.41	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/13/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	EQUIPMENTBLANK	SDG No.:	D5165
Lab Sample ID:	D5165-19	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003308.D	1		12/15/12	vn121512

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
87-68-3	Hexachlorobutadiene	0.5	U	0.2	0.5	1	ug/L
91-20-3	Naphthalene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
74-88-4	Methyl Iodide	0.5	U	0.2	0.5	1	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	46.3		61 - 141		93%	SPK: 50
1868-53-7	Dibromofluoromethane	47.1		69 - 133		94%	SPK: 50
2037-26-5	Toluene-d8	47.4		65 - 126		95%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.8		58 - 135		92%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	717665	7.87				
540-36-3	1,4-Difluorobenzene	1124110	8.79				
3114-55-4	Chlorobenzene-d5	1015910	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	500685	13.57				

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

QC SUMMARY

Surrogate Summary

SDG No.: D5165

Client: TRC Companies, Inc.

Analytical Method: EPA SW846 8260

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits Low	Limits High
D5165-01	MW-39S	1,2-Dichloroethane-d4	50	46.96	94		61	141
		Dibromofluoromethane	50	47.31	95		69	133
		Toluene-d8	50	47.82	96		65	126
		4-Bromofluorobenzene	50	46.87	94		58	135
D5165-02	DUP-A	1,2-Dichloroethane-d4	50	46.66	93		61	141
		Dibromofluoromethane	50	47.75	96		69	133
		Toluene-d8	50	47.93	96		65	126
		4-Bromofluorobenzene	50	46.1	92		58	135
D5165-03	MW-35S	1,2-Dichloroethane-d4	50	46.78	94		61	141
		Dibromofluoromethane	50	47.3	95		69	133
		Toluene-d8	50	47.6	95		65	126
		4-Bromofluorobenzene	50	46.76	94		58	135
D5165-04	MW-GF-6	1,2-Dichloroethane-d4	50	47.49	95		61	141
		Dibromofluoromethane	50	47.05	94		69	133
		Toluene-d8	50	47.5	95		65	126
		4-Bromofluorobenzene	50	46.5	93		58	135
D5165-05	MW-GF-9	1,2-Dichloroethane-d4	50	46.63	93		61	141
		Dibromofluoromethane	50	47.43	95		69	133
		Toluene-d8	50	48.24	96		65	126
		4-Bromofluorobenzene	50	46.46	93		58	135
D5165-06	MW-34S	1,2-Dichloroethane-d4	50	47.37	95		61	141
		Dibromofluoromethane	50	47.79	96		69	133
		Toluene-d8	50	48.5	97		65	126
		4-Bromofluorobenzene	50	47.33	95		58	135
D5165-07	MW-GF-7	1,2-Dichloroethane-d4	50	46.86	94		61	141
		Dibromofluoromethane	50	47.34	95		69	133
		Toluene-d8	50	48.04	96		65	126
		4-Bromofluorobenzene	50	47.3	95		58	135
D5165-08	MW-36S	1,2-Dichloroethane-d4	50	46.64	93		61	141
		Dibromofluoromethane	50	47.22	94		69	133
		Toluene-d8	50	47.63	95		65	126
		4-Bromofluorobenzene	50	47.33	95		58	135
D5165-09	MW-GF-18	1,2-Dichloroethane-d4	50	47.03	94		61	141
		Dibromofluoromethane	50	46.95	94		69	133
		Toluene-d8	50	47.42	95		65	126
		4-Bromofluorobenzene	50	47.2	94		58	135
D5165-10MS	MW-GF-18MS	1,2-Dichloroethane-d4	50	50.89	102		70	120
		Dibromofluoromethane	50	49.8	100		85	115
		Toluene-d8	50	48.36	97		85	120
		4-Bromofluorobenzene	50	48.88	98		75	120
D5165-11MSD	MW-GF-18MSD	1,2-Dichloroethane-d4	50	51.45	103		70	120
		Dibromofluoromethane	50	50.13	100		85	115
		Toluene-d8	50	49	98		85	120
		4-Bromofluorobenzene	50	48.74	97		75	120
D5165-12	EQUIPMENTBLANK	1,2-Dichloroethane-d4	50	46.55	93		61	141
		Dibromofluoromethane	50	47.16	94		69	133
		Toluene-d8	50	48.25	97		65	126
		4-Bromofluorobenzene	50	45.79	92		58	135
D5165-13	MW-GF-15	1,2-Dichloroethane-d4	50	46.7	93		61	141
		Dibromofluoromethane	50	47.85	96		69	133
		Toluene-d8	50	47.97	96		65	126
		4-Bromofluorobenzene	50	47.64	95		58	135

Surrogate Summary

SDG No.: D5165

Client: TRC Companies, Inc.

Analytical Method: EPA SW846 8260

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits Low	Limits High
D5165-14	MW-GF-17	1,2-Dichloroethane-d4	50	47.34	95		61	141
		Dibromofluoromethane	50	47.21	94		69	133
		Toluene-d8	50	48.18	96		65	126
		4-Bromofluorobenzene	50	48.65	97		58	135
D5165-15	MW-1-60	1,2-Dichloroethane-d4	50	45.89	92		61	141
		Dibromofluoromethane	50	48.41	97		69	133
		Toluene-d8	50	48.02	96		65	126
		4-Bromofluorobenzene	50	45.78	92		58	135
D5165-16MS	MW-1-60MS	1,2-Dichloroethane-d4	50	50.36	101		61	141
		Dibromofluoromethane	50	50.8	102		69	133
		Toluene-d8	50	50.43	101		65	126
		4-Bromofluorobenzene	50	49.7	99		58	135
D5165-17MSD	MW-1-60MSD	1,2-Dichloroethane-d4	50	51.11	102		61	141
		Dibromofluoromethane	50	51.22	102		69	133
		Toluene-d8	50	50.68	101		65	126
		4-Bromofluorobenzene	50	49.76	100		58	135
D5165-18	DMW-5	1,2-Dichloroethane-d4	50	47.01	94		61	141
		Dibromofluoromethane	50	47.46	95		69	133
		Toluene-d8	50	48.06	96		65	126
		4-Bromofluorobenzene	50	46.9	94		58	135
D5165-19	EQUIPMENTBLANK	1,2-Dichloroethane-d4	50	46.28	93		61	141
		Dibromofluoromethane	50	47.14	94		69	133
		Toluene-d8	50	47.42	95		65	126
		4-Bromofluorobenzene	50	45.84	92		58	135
VN1214WBL01	VN1214WBL01	1,2-Dichloroethane-d4	50	46.25	93		70	120
		Dibromofluoromethane	50	47.77	96		85	115
		Toluene-d8	50	47.62	95		85	120
		4-Bromofluorobenzene	50	45.16	90		75	120
VN1214WBS01	VN1214WBS01	1,2-Dichloroethane-d4	50	51.59	103		70	120
		Dibromofluoromethane	50	51.56	103		85	115
		Toluene-d8	50	50.24	100		85	120
		4-Bromofluorobenzene	50	48.06	96		75	120
VN1215WBL01	VN1215WBL01	1,2-Dichloroethane-d4	50	46.37	93		70	120
		Dibromofluoromethane	50	46.5	93		85	115
		Toluene-d8	50	47.53	95		85	120
		4-Bromofluorobenzene	50	45.7	91		75	120
VN1215WBS01	VN1215WBS01	1,2-Dichloroethane-d4	50	55.7	111		70	120
		Dibromofluoromethane	50	51.6	103		85	115
		Toluene-d8	50	50.98	102		85	120
		4-Bromofluorobenzene	50	48.78	98		75	120
VN1217WBL01	VN1217WBL01	1,2-Dichloroethane-d4	50	46.26	93		70	120
		Dibromofluoromethane	50	47.74	95		85	115
		Toluene-d8	50	47.24	94		85	120
		4-Bromofluorobenzene	50	45.87	92		75	120
VN1217WBS01	VN1217WBS01	1,2-Dichloroethane-d4	50	48.99	98		70	120
		Dibromofluoromethane	50	50.09	100		85	115
		Toluene-d8	50	48.84	98		85	120
		4-Bromofluorobenzene	50	48.41	97		75	120

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

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CHEMTECH **Client:** TRC Companies, Inc.

Lab Code: CHEM **Cas No:** D5165 **SAS No :** D5165 **SDG No:** D5165

Client SampleID : MW-1-60MS **Analytical Method:** EPA SW846 8260 **Datafile :** VN003281.D

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC#	QC LIMITS REC
Dichlorodifluoromethane	50	0	52	104	(47-161)
Chloromethane	50	0	52	104	(53-157)
Vinyl Chloride	50	0	52	104	(57-149)
Bromomethane	50	0	53	106	(45-165)
Chloroethane	50	0	50	100	(47-166)
Trichlorofluoromethane	50	0.99	49	96	(51-165)
1,1-Dichloroethene	50	0	50	100	(55-148)
Acetone	250	0	190	76	(11-159)
Carbon Disulfide	50	0	50	100	(13-149)
Methyl tert-butyl Ether	50	0	49	98	(60-145)
Methylene Chloride	50	0	50	100	(56-146)
trans-1,2-Dichloroethene	50	0	49	98	(60-141)
Vinyl Acetate	250	0	260	104	(50-176)
1,1-Dichloroethane	50	0	50	100	(61-144)
2-Butanone	250	0	220	88	(42-145)
Carbon Tetrachloride	50	0	50	100	(60-140)
2,2-Dichloropropane	50	0	53	106	(39-146)
cis-1,2-Dichloroethene	50	0	49	98	(48-156)
Bromochloromethane	50	0	52	104	(59-146)
Chloroform	50	0	50	100	(63-140)
1,1,1-Trichloroethane	50	0	50	100	(65-140)
1,1-Dichloropropene	50	0	49	98	(64-132)
Benzene	50	0	49	98	(62-134)
1,2-Dichloroethane	50	0	49	98	(67-136)
Trichloroethene	50	0	48	96	(64-131)
1,2-Dichloropropane	50	0	49	98	(69-130)
Dibromomethane	50	0	49	98	(71-132)
Bromodichloromethane	50	0	51	102	(66-132)
4-Methyl-2-Pentanone	250	0	240	96	(57-148)
Toluene	50	0	50	100	(68-129)
t-1,3-Dichloropropene	50	0	50	100	(54-136)
cis-1,3-Dichloropropene	50	0	51	102	(56-133)
1,1,2-Trichloroethane	50	0	48	96	(68-134)

 # Column to be used to flag recovery and RPD values with an asterisk
*** Values outside of QC limits**

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

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CHEMTECH **Client:** TRC Companies, Inc.

Lab Code: CHEM **Cas No:** D5165 **SAS No :** D5165 **SDG No:** D5165

Client SampleID : MW-1-60MS **Analytical Method:** EPA SW846 8260 **Datafile :** VN003281.D

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC#	QC LIMITS REC
1,3-Dichloropropane	50	0	49	98	(71-132)
2-Hexanone	250	0	240	96	(46-158)
Dibromochloromethane	50	0	49	98	(59-136)
1,2-Dibromoethane	50	0	48	96	(65-138)
Tetrachloroethene	50	3.2	53	100	(29-137)
Chlorobenzene	50	0	49	98	(68-126)
1,1,1,2-Tetrachloroethane	50	0	50	100	(69-129)
Ethyl Benzene	50	0	50	100	(61-131)
m/p-Xylenes	100	0	100	100	(64-125)
o-Xylene	50	0	51	102	(65-126)
Styrene	50	0	51	102	(40-140)
Bromoform	50	0	50	100	(42-134)
Isopropylbenzene	50	0	49	98	(58-132)
1,1,2,2-Tetrachloroethane	50	0	49	98	(61-136)
1,2,3-Trichloropropane	50	0	47	94	(68-128)
Bromobenzene	50	0	48	96	(65-126)
n-propylbenzene	50	0	50	100	(64-126)
2-Chlorotoluene	50	0	50	100	(63-125)
1,3,5-Trimethylbenzene	50	0	50	100	(59-127)
4-Chlorotoluene	50	0	50	100	(63-126)
tert-Butylbenzene	50	0	49	98	(65-138)
1,2,4-Trimethylbenzene	50	0	51	102	(54-133)
sec-Butylbenzene	50	0	50	100	(65-125)
p-Isopropyltoluene	50	0	51	102	(64-124)
1,3-Dichlorobenzene	50	0	48	96	(63-125)
1,4-Dichlorobenzene	50	0	48	96	(64-124)
n-Butylbenzene	50	0	51	102	(62-127)
1,2-Dichlorobenzene	50	0	49	98	(64-126)
1,2-Dibromo-3-Chloropropane	50	0	45	90	(57-139)
1,2,4-Trichlorobenzene	50	0	48	96	(57-130)
Hexachlorobutadiene	50	0	46	92	(53-127)
Naphthalene	50	0	49	98	(56-136)
1,2,3-Trichlorobenzene	50	0	47	94	(57-131)

 # Column to be used to flag recovery and RPD values with an asterisk

*** Values outside of QC limits**

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

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CHEMTECH **Client:** TRC Companies, Inc.

Lab Code: CHEM **Cas No:** D5165 **SAS No :** D5165 **SDG No:** D5165

Client SampleID : MW-1-60MS **Analytical Method:** EPA SW846 8260 **Datafile :** VN003281.D

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC#	QC LIMITS REC
Methyl Iodide	50	0	49	98	(77-120)

RPD : 0 Out of 67 outside limits

Spike Recovery : 0 Out of 67 outside limits

 # Column to be used to flag recovery and RPD values with an asterisk
*** Values outside of QC limits**

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

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CHEMTECH **Client:** TRC Companies, Inc.

Lab Code: CHEM **Cas No:** D5165 **SAS No :** D5165 **SDG No:** D5165

Client SampleID : MW-1-60MSD **Analytical Method:** EPA SW846 8260 **Datafile :** VN003282.D

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD %REC	MSD %RPD	QC LIMITS RPD	QC LIMITS REC
Dichlorodifluoromethane	50	51	102	2	20	(47-161)
Chloromethane	50	52	104	0	20	(53-157)
Vinyl Chloride	50	54	108	4	20	(57-149)
Bromomethane	50	55	110	4	20	(45-165)
Chloroethane	50	51	102	2	20	(47-166)
Trichlorofluoromethane	50	49	96	0	20	(51-165)
1,1-Dichloroethene	50	51	102	2	20	(55-148)
Acetone	250	190	76	0	20	(11-159)
Carbon Disulfide	50	50	100	0	20	(13-149)
Methyl tert-butyl Ether	50	50	100	2	20	(60-145)
Methylene Chloride	50	50	100	0	20	(56-146)
trans-1,2-Dichloroethene	50	50	100	2	20	(60-141)
Vinyl Acetate	250	260	104	0	20	(50-176)
1,1-Dichloroethane	50	51	102	2	20	(61-144)
2-Butanone	250	220	88	0	20	(42-145)
Carbon Tetrachloride	50	49	98	2	20	(60-140)
2,2-Dichloropropane	50	53	106	0	20	(39-146)
cis-1,2-Dichloroethene	50	50	100	2	20	(48-156)
Bromochloromethane	50	53	106	2	20	(59-146)
Chloroform	50	51	102	2	20	(63-140)
1,1,1-Trichloroethane	50	50	100	0	20	(65-140)
1,1-Dichloropropene	50	49	98	0	20	(64-132)
Benzene	50	49	98	0	20	(62-134)
1,2-Dichloroethane	50	49	98	0	20	(67-136)
Trichloroethene	50	48	96	0	20	(64-131)
1,2-Dichloropropane	50	50	100	2	20	(69-130)
Dibromomethane	50	49	98	0	20	(71-132)
Bromodichloromethane	50	50	100	2	20	(66-132)
4-Methyl-2-Pentanone	250	240	96	0	20	(57-148)
Toluene	50	50	100	0	20	(68-129)
t-1,3-Dichloropropene	50	51	102	2	20	(54-136)
cis-1,3-Dichloropropene	50	51	102	0	20	(56-133)
1,1,2-Trichloroethane	50	49	98	2	20	(68-134)

 # Column to be used to flag recovery and RPD values with an asterisk

*** Values outside of QC limits**

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

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CHEMTECH **Client:** TRC Companies, Inc.

Lab Code: CHEM **Cas No:** D5165 **SAS No :** D5165 **SDG No:** D5165

Client SampleID : MW-1-60MSD **Analytical Method:** EPA SW846 8260 **Datafile :** VN003282.D

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD %REC	MSD %RPD	QC LIMITS RPD	QC LIMITS REC
1,3-Dichloropropane	50	49	98	0	20	(71-132)
2-Hexanone	250	240	96	0	20	(46-158)
Dibromochloromethane	50	50	100	2	20	(59-136)
1,2-Dibromoethane	50	48	96	0	20	(65-138)
Tetrachloroethene	50	55	104	4	20	(29-137)
Chlorobenzene	50	50	100	2	20	(68-126)
1,1,1,2-Tetrachloroethane	50	50	100	0	20	(69-129)
Ethyl Benzene	50	50	100	0	20	(61-131)
m/p-Xylenes	100	100	100	0	20	(64-125)
o-Xylene	50	50	100	2	20	(65-126)
Styrene	50	51	102	0	20	(40-140)
Bromoform	50	50	100	0	20	(42-134)
Isopropylbenzene	50	50	100	2	20	(58-132)
1,1,2,2-Tetrachloroethane	50	49	98	0	20	(61-136)
1,2,3-Trichloropropane	50	48	96	2	20	(68-128)
Bromobenzene	50	49	98	2	20	(65-126)
n-propylbenzene	50	50	100	0	20	(64-126)
2-Chlorotoluene	50	51	102	2	20	(63-125)
1,3,5-Trimethylbenzene	50	51	102	2	20	(59-127)
4-Chlorotoluene	50	50	100	0	20	(63-126)
tert-Butylbenzene	50	51	102	4	20	(65-138)
1,2,4-Trimethylbenzene	50	51	102	0	20	(54-133)
sec-Butylbenzene	50	51	102	2	20	(65-125)
p-Isopropyltoluene	50	51	102	0	20	(64-124)
1,3-Dichlorobenzene	50	49	98	2	20	(63-125)
1,4-Dichlorobenzene	50	49	98	2	20	(64-124)
n-Butylbenzene	50	51	102	0	20	(62-127)
1,2-Dichlorobenzene	50	49	98	0	20	(64-126)
1,2-Dibromo-3-Chloropropane	50	46	92	2	20	(57-139)
1,2,4-Trichlorobenzene	50	49	98	2	20	(57-130)
Hexachlorobutadiene	50	46	92	0	20	(53-127)
Naphthalene	50	50	100	2	20	(56-136)
1,2,3-Trichlorobenzene	50	48	96	2	20	(57-131)

 # Column to be used to flag recovery and RPD values with an asterisk

*** Values outside of QC limits**

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

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CHEMTECH **Client:** TRC Companies, Inc.

Lab Code: CHEM **Cas No:** D5165 **SAS No :** D5165 **SDG No:** D5165

Client SampleID : MW-1-60MSD **Analytical Method:** EPA SW846 8260 **Datafile :** VN003282.D

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD %REC	MSD %RPD	QC LIMITS RPD	QC LIMITS REC
Methyl Iodide	50	51	102	4	20	(77-120)

RPD : 0 Out of 67 outside limits

Spike Recovery : 0 Out of 67 outside limits

 # Column to be used to flag recovery and RPD values with an asterisk
*** Values outside of QC limits**

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

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CHEMTECH **Client:** TRC Companies, Inc.

Lab Code: CHEM **Cas No:** D5165 **SAS No :** D5165 **SDG No:** D5165

Client SampleID : MW-GF-18MS **Analytical Method:** EPA SW846 8260 **Datafile :** VN003351.D

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC#	QC LIMITS REC
Dichlorodifluoromethane	50	0	49	98	(30-155)
Chloromethane	50	0	51	102	(40-125)
Vinyl Chloride	50	0	53	106	(50-145)
Bromomethane	50	0	53	106	(30-145)
Chloroethane	50	0	51	102	(60-135)
Trichlorofluoromethane	50	0	48	96	(60-145)
1,1-Dichloroethene	50	0	51	102	(70-130)
Acetone	250	0	230	92	(40-140)
Carbon Disulfide	50	0	51	102	(35-160)
Methyl tert-butyl Ether	50	0	52	104	(65-125)
Methylene Chloride	50	0	50	100	(55-140)
trans-1,2-Dichloroethene	50	0	49	98	(60-140)
Vinyl Acetate	250	0	260	104	(47-166)
1,1-Dichloroethane	50	0	51	102	(70-135)
2-Butanone	250	0	270	108	(30-150)
Carbon Tetrachloride	50	0	48	96	(65-140)
2,2-Dichloropropane	50	0	50	100	(70-135)
cis-1,2-Dichloroethene	50	0	49	98	(70-125)
Bromochloromethane	50	0	53	106	(65-130)
Chloroform	50	0	51	102	(65-135)
1,1,1-Trichloroethane	50	0	48	96	(65-130)
1,1-Dichloropropene	50	0	48	96	(75-130)
Benzene	50	0	48	96	(80-120)
1,2-Dichloroethane	50	0	49	98	(70-130)
Trichloroethene	50	0	46	92	(70-125)
1,2-Dichloropropane	50	0	50	100	(75-125)
Dibromomethane	50	0	50	100	(75-125)
Bromodichloromethane	50	0	50	100	(75-120)
4-Methyl-2-Pentanone	250	0	290	116	(60-135)
Toluene	50	0	49	98	(75-120)
t-1,3-Dichloropropene	50	0	49	98	(55-140)
cis-1,3-Dichloropropene	50	0	50	100	(70-130)
1,1,2-Trichloroethane	50	0	49	98	(75-125)

 # Column to be used to flag recovery and RPD values with an asterisk
*** Values outside of QC limits**

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

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CHEMTECH **Client:** TRC Companies, Inc.

Lab Code: CHEM **Cas No:** D5165 **SAS No :** D5165 **SDG No:** D5165

Client SampleID : MW-GF-18MS **Analytical Method:** EPA SW846 8260 **Datafile :** VN003351.D

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC#	QC LIMITS REC
1,3-Dichloropropane	50	0	49	98	(75-125)
2-Hexanone	250	0	290	116	(55-130)
Dibromochloromethane	50	0	49	98	(60-135)
1,2-Dibromoethane	50	0	49	98	(80-120)
Tetrachloroethene	50	0	46	92	(45-150)
Chlorobenzene	50	0	48	96	(80-120)
1,1,1,2-Tetrachloroethane	50	0	49	98	(80-130)
Ethyl Benzene	50	0	49	98	(75-125)
m/p-Xylenes	100	0	96	96	(75-130)
o-Xylene	50	0	49	98	(80-120)
Styrene	50	0	51	102	(65-135)
Bromoform	50	0	54	108	(70-130)
Isopropylbenzene	50	3.6	53	99	(75-125)
1,1,2,2-Tetrachloroethane	50	0	54	108	(65-130)
1,2,3-Trichloropropane	50	0	54	108	(75-125)
Bromobenzene	50	0	48	96	(75-125)
n-propylbenzene	50	2.2	53	102	(70-130)
2-Chlorotoluene	50	0	51	102	(75-125)
1,3,5-Trimethylbenzene	50	0	51	102	(75-130)
4-Chlorotoluene	50	0	51	102	(75-130)
tert-Butylbenzene	50	1.4	51	99	(70-130)
1,2,4-Trimethylbenzene	50	0	52	104	(75-130)
sec-Butylbenzene	50	5.3	56	101	(70-125)
p-Isopropyltoluene	50	0	51	102	(75-130)
1,3-Dichlorobenzene	50	0	49	98	(75-125)
1,4-Dichlorobenzene	50	0	49	98	(75-125)
n-Butylbenzene	50	3.7	55	103	(70-135)
1,2-Dichlorobenzene	50	0	50	100	(70-120)
1,2-Dibromo-3-Chloropropane	50	0	55	110	(50-130)
1,2,4-Trichlorobenzene	50	0	47	94	(65-135)
Hexachlorobutadiene	50	0	44	88	(50-140)
Naphthalene	50	0	53	106	(55-140)
1,2,3-Trichlorobenzene	50	0	47	94	(55-140)

 # Column to be used to flag recovery and RPD values with an asterisk

*** Values outside of QC limits**

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

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CHEMTECH **Client:** TRC Companies, Inc.

Lab Code: CHEM **Cas No:** D5165 **SAS No :** D5165 **SDG No:** D5165

Client SampleID : MW-GF-18MS **Analytical Method:** EPA SW846 8260 **Datafile :** VN003351.D

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC#	QC LIMITS REC
Methyl Iodide	50	0	46	92	(70-130)

RPD : 0 Out of 67 outside limits

Spike Recovery : 0 Out of 67 outside limits

 # Column to be used to flag recovery and RPD values with an asterisk
*** Values outside of QC limits**

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

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CHEMTECH **Client:** TRC Companies, Inc.

Lab Code: CHEM **Cas No:** D5165 **SAS No :** D5165 **SDG No:** D5165

Client SampleID : MW-GF-18MSD **Analytical Method:** EPA SW846 8260 **Datafile :** VN003352.D

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD %REC	MSD %RPD	QC LIMITS RPD	QC LIMITS REC
Dichlorodifluoromethane	50	50	100	2	20	(30-155)
Chloromethane	50	55	110	8	20	(40-125)
Vinyl Chloride	50	58	116	9	20	(50-145)
Bromomethane	50	57	114	7	20	(30-145)
Chloroethane	50	54	108	6	20	(60-135)
Trichlorofluoromethane	50	49	98	2	20	(60-145)
1,1-Dichloroethene	50	53	106	4	20	(70-130)
Acetone	250	230	92	0	20	(40-140)
Carbon Disulfide	50	53	106	4	20	(35-160)
Methyl tert-butyl Ether	50	52	104	0	20	(65-125)
Methylene Chloride	50	52	104	4	20	(55-140)
trans-1,2-Dichloroethene	50	50	100	2	20	(60-140)
Vinyl Acetate	250	270	108	4	20	(47-166)
1,1-Dichloroethane	50	53	106	4	20	(70-135)
2-Butanone	250	270	108	0	20	(30-150)
Carbon Tetrachloride	50	48	96	0	20	(65-140)
2,2-Dichloropropane	50	50	100	0	20	(70-135)
cis-1,2-Dichloroethene	50	51	102	4	20	(70-125)
Bromochloromethane	50	56	112	6	20	(65-130)
Chloroform	50	52	104	2	20	(65-135)
1,1,1-Trichloroethane	50	49	98	2	20	(65-130)
1,1-Dichloropropene	50	48	96	0	20	(75-130)
Benzene	50	49	98	2	20	(80-120)
1,2-Dichloroethane	50	48	96	2	20	(70-130)
Trichloroethene	50	46	92	0	20	(70-125)
1,2-Dichloropropane	50	51	102	2	20	(75-125)
Dibromomethane	50	49	98	2	20	(75-125)
Bromodichloromethane	50	51	102	2	20	(75-120)
4-Methyl-2-Pentanone	250	290	116	0	20	(60-135)
Toluene	50	49	98	0	20	(75-120)
t-1,3-Dichloropropene	50	50	100	2	20	(55-140)
cis-1,3-Dichloropropene	50	51	102	2	20	(70-130)
1,1,2-Trichloroethane	50	49	98	0	20	(75-125)

 # Column to be used to flag recovery and RPD values with an asterisk

*** Values outside of QC limits**

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

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CHEMTECH **Client:** TRC Companies, Inc.

Lab Code: CHEM **Cas No:** D5165 **SAS No :** D5165 **SDG No:** D5165

Client SampleID : MW-GF-18MSD **Analytical Method:** EPA SW846 8260 **Datafile :** VN003352.D

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD %REC	MSD %RPD	QC LIMITS RPD	QC LIMITS REC
1,3-Dichloropropane	50	50	100	2	20	(75-125)
2-Hexanone	250	290	116	0	20	(55-130)
Dibromochloromethane	50	50	100	2	20	(60-135)
1,2-Dibromoethane	50	49	98	0	20	(80-120)
Tetrachloroethene	50	45	90	2	20	(45-150)
Chlorobenzene	50	48	96	0	20	(80-120)
1,1,1,2-Tetrachloroethane	50	50	100	2	20	(80-130)
Ethyl Benzene	50	50	100	2	20	(75-125)
m/p-Xylenes	100	97	97	1	20	(75-130)
o-Xylene	50	50	100	2	20	(80-120)
Styrene	50	52	104	2	20	(65-135)
Bromoform	50	54	108	0	20	(70-130)
Isopropylbenzene	50	47	87	13	20	(75-125)
1,1,2,2-Tetrachloroethane	50	48	96	12	20	(65-130)
1,2,3-Trichloropropane	50	47	94	14	20	(75-125)
Bromobenzene	50	45	90	6	20	(75-125)
n-propylbenzene	50	47	90	13	20	(70-130)
2-Chlorotoluene	50	46	92	10	20	(75-125)
1,3,5-Trimethylbenzene	50	44	88	15	20	(75-130)
4-Chlorotoluene	50	46	92	10	20	(75-130)
tert-Butylbenzene	50	44	85	15	20	(70-130)
1,2,4-Trimethylbenzene	50	46	92	12	20	(75-130)
sec-Butylbenzene	50	49	87	15	20	(70-125)
p-Isopropyltoluene	50	44	88	15	20	(75-130)
1,3-Dichlorobenzene	50	43	86	13	20	(75-125)
1,4-Dichlorobenzene	50	44	88	11	20	(75-125)
n-Butylbenzene	50	48	89	15	20	(70-135)
1,2-Dichlorobenzene	50	45	90	11	20	(70-120)
1,2-Dibromo-3-Chloropropane	50	48	96	14	20	(50-130)
1,2,4-Trichlorobenzene	50	42	84	11	20	(65-135)
Hexachlorobutadiene	50	36	72	20	20	(50-140)
Naphthalene	50	48	96	10	20	(55-140)
1,2,3-Trichlorobenzene	50	42	84	11	20	(55-140)

 # Column to be used to flag recovery and RPD values with an asterisk

*** Values outside of QC limits**

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

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CHEMTECH **Client:** TRC Companies, Inc.

Lab Code: CHEM **Cas No:** D5165 **SAS No :** D5165 **SDG No:** D5165

Client SampleID : MW-GF-18MSD **Analytical Method:** EPA SW846 8260 **Datafile :** VN003352.D

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD %REC	MSD %RPD	QC LIMITS RPD	QC LIMITS REC
Methyl Iodide	50	49	98	6	20	(70-130)

RPD : 0 Out of 67 outside limits

Spike Recovery : 0 Out of 67 outside limits

 # Column to be used to flag recovery and RPD values with an asterisk

*** Values outside of QC limits**

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

WATER VOLATILE LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: CHEMTECH **Client:** TRC Companies, Inc.

Lab Code: CHEM **Cas No:** D5165 **SAS No :** D5165 **SDG No:** D5165

Matrix Spike - EPA Sample No : VN1214WBS01 **Analytical Method:** EPA SW846 8260 **Datafile :** VN003280.D

COMPOUND	SPIKE ADDED (ug/L)	CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC#	QC LIMITS REC
Dichlorodifluoromethane	20		21	105	(30-155)
Chloromethane	20		20	100	(40-125)
Vinyl Chloride	20		21	105	(50-145)
Bromomethane	20		22	110	(30-145)
Chloroethane	20		21	105	(60-135)
Trichlorofluoromethane	20		20	100	(60-145)
1,1-Dichloroethene	20		21	105	(70-130)
Acetone	100		84	84	(40-140)
Carbon Disulfide	20		20	100	(35-160)
Methyl tert-butyl Ether	20		20	100	(65-125)
Methylene Chloride	20		21	105	(55-140)
trans-1,2-Dichloroethene	20		20	100	(60-140)
Vinyl Acetate	100		100	100	(47-166)
1,1-Dichloroethane	20		21	105	(70-135)
2-Butanone	100		92	92	(30-150)
Carbon Tetrachloride	20		20	100	(65-140)
2,2-Dichloropropane	20		20	100	(70-135)
cis-1,2-Dichloroethene	20		21	105	(70-125)
Bromochloromethane	20		22	110	(65-130)
Chloroform	20		21	105	(65-135)
1,1,1-Trichloroethane	20		20	100	(65-130)
1,1-Dichloropropene	20		20	100	(75-130)
Benzene	20		20	100	(80-120)
1,2-Dichloroethane	20		20	100	(70-130)
Trichloroethene	20		20	100	(70-125)
1,2-Dichloropropane	20		20	100	(75-125)
Dibromomethane	20		20	100	(75-125)
Bromodichloromethane	20		20	100	(75-120)
4-Methyl-2-Pentanone	100		95	95	(60-135)
Toluene	20		20	100	(75-120)
t-1,3-Dichloropropene	20		19	95	(55-140)
cis-1,3-Dichloropropene	20		20	100	(70-130)
1,1,2-Trichloroethane	20		20	100	(75-125)
1,3-Dichloropropane	20		20	100	(75-125)

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

Comments: _____

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

WATER VOLATILE LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: CHEMTECH **Client:** TRC Companies, Inc.

Lab Code: CHEM **Cas No:** D5165 **SAS No :** D5165 **SDG No:** D5165

Matrix Spike - EPA Sample No : VN1214WBS01 **Analytical Method:** EPA SW846 8260 **Datafile :** VN003280.D

COMPOUND	SPIKE ADDED (ug/L)	CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC#	QC LIMITS REC
2-Hexanone	100		92	92	(55-130)
Dibromochloromethane	20		19	95	(60-135)
1,2-Dibromoethane	20		19	95	(80-120)
Tetrachloroethene	20		21	105	(45-150)
Chlorobenzene	20		20	100	(80-120)
1,1,1,2-Tetrachloroethane	20		20	100	(80-130)
Ethyl Benzene	20		20	100	(75-125)
m/p-Xylenes	40		40	100	(75-130)
o-Xylene	20		20	100	(80-120)
Styrene	20		20	100	(65-135)
Bromoform	20		20	100	(70-130)
Isopropylbenzene	20		20	100	(75-125)
1,1,2,2-Tetrachloroethane	20		20	100	(65-130)
1,2,3-Trichloropropane	20		20	100	(75-125)
Bromobenzene	20		20	100	(75-125)
n-propylbenzene	20		20	100	(70-130)
2-Chlorotoluene	20		21	105	(75-125)
1,3,5-Trimethylbenzene	20		20	100	(75-130)
4-Chlorotoluene	20		20	100	(75-130)
tert-Butylbenzene	20		21	105	(70-130)
1,2,4-Trimethylbenzene	20		21	105	(75-130)
sec-Butylbenzene	20		21	105	(70-125)
p-Isopropyltoluene	20		20	100	(75-130)
1,3-Dichlorobenzene	20		20	100	(75-125)
1,4-Dichlorobenzene	20		20	100	(75-125)
n-Butylbenzene	20		20	100	(70-135)
1,2-Dichlorobenzene	20		20	100	(70-120)
1,2-Dibromo-3-Chloropropane	20		19	95	(50-130)
1,2,4-Trichlorobenzene	20		21	105	(65-135)
Hexachlorobutadiene	20		20	100	(50-140)
Naphthalene	20		21	105	(55-140)
1,2,3-Trichlorobenzene	20		21	105	(55-140)
Methyl Iodide	20		19	95	(70-130)

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

Comments: _____

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

WATER VOLATILE LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: CHEMTECH **Client:** TRC Companies, Inc.

Lab Code: CHEM **Cas No:** D5165 **SAS No :** D5165 **SDG No:** D5165

Matrix Spike - EPA Sample No : VN1214WBS01 **Analytical Method:** EPA SW846 8260 **Datafile :** VN003280.D

COMPOUND	SPIKE ADDED (ug/L)	CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC#	QC LIMITS REC

RPD : 0 Out of 67 outside limits

Spike Recovery : 0 Out of 67 outside limits

 # Column to be used to flag recovery and RPD values with an asterisk

*** Values outside of QC limits**

Comments: _____

WATER VOLATILE LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: CHEMTECH **Client:** TRC Companies, Inc.

Lab Code: CHEM **Cas No:** D5165 **SAS No :** D5165 **SDG No:** D5165

Matrix Spike - EPA Sample No : VN1215WBS01 **Analytical Method:** EPA SW846 8260 **Datafile :** VN003304.D

COMPOUND	SPIKE ADDED (ug/L)	CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC#	QC LIMITS REC
Dichlorodifluoromethane	20		20	100	(30-155)
Chloromethane	20		23	115	(40-125)
Vinyl Chloride	20		25	125	(50-145)
Bromomethane	20		21	105	(30-145)
Chloroethane	20		24	120	(60-135)
Trichlorofluoromethane	20		21	105	(60-145)
1,1-Dichloroethene	20		23	115	(70-130)
Acetone	100		98	98	(40-140)
Carbon Disulfide	20		22	110	(35-160)
Methyl tert-butyl Ether	20		23	115	(65-125)
Methylene Chloride	20		22	110	(55-140)
trans-1,2-Dichloroethene	20		21	105	(60-140)
Vinyl Acetate	100		110	110	(47-166)
1,1-Dichloroethane	20		23	115	(70-135)
2-Butanone	100		110	110	(30-150)
Carbon Tetrachloride	20		20	100	(65-140)
2,2-Dichloropropane	20		16	80	(70-135)
cis-1,2-Dichloroethene	20		22	110	(70-125)
Bromochloromethane	20		25	125	(65-130)
Chloroform	20		22	110	(65-135)
1,1,1-Trichloroethane	20		22	110	(65-130)
1,1-Dichloropropene	20		20	100	(75-130)
Benzene	20		20	100	(80-120)
1,2-Dichloroethane	20		20	100	(70-130)
Trichloroethene	20		20	100	(70-125)
1,2-Dichloropropane	20		21	105	(75-125)
Dibromomethane	20		21	105	(75-125)
Bromodichloromethane	20		20	100	(75-120)
4-Methyl-2-Pentanone	100		110	110	(60-135)
Toluene	20		20	100	(75-120)
t-1,3-Dichloropropene	20		19	95	(55-140)
cis-1,3-Dichloropropene	20		20	100	(70-130)
1,1,2-Trichloroethane	20		21	105	(75-125)
1,3-Dichloropropane	20		21	105	(75-125)

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

Comments: _____

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

WATER VOLATILE LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: CHEMTECH **Client:** TRC Companies, Inc.

Lab Code: CHEM **Cas No:** D5165 **SAS No :** D5165 **SDG No:** D5165

Matrix Spike - EPA Sample No : VN1215WBS01 **Analytical Method:** EPA SW846 8260 **Datafile :** VN003304.D

COMPOUND	SPIKE ADDED (ug/L)	CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC#	QC LIMITS REC
2-Hexanone	100		110	110	(55-130)
Dibromochloromethane	20		20	100	(60-135)
1,2-Dibromoethane	20		20	100	(80-120)
Tetrachloroethene	20		21	105	(45-150)
Chlorobenzene	20		20	100	(80-120)
1,1,1,2-Tetrachloroethane	20		20	100	(80-130)
Ethyl Benzene	20		20	100	(75-125)
m/p-Xylenes	40		41	103	(75-130)
o-Xylene	20		21	105	(80-120)
Styrene	20		21	105	(65-135)
Bromoform	20		21	105	(70-130)
Isopropylbenzene	20		21	105	(75-125)
1,1,2,2-Tetrachloroethane	20		23	115	(65-130)
1,2,3-Trichloropropane	20		21	105	(75-125)
Bromobenzene	20		21	105	(75-125)
n-propylbenzene	20		21	105	(70-130)
2-Chlorotoluene	20		22	110	(75-125)
1,3,5-Trimethylbenzene	20		21	105	(75-130)
4-Chlorotoluene	20		21	105	(75-130)
tert-Butylbenzene	20		21	105	(70-130)
1,2,4-Trimethylbenzene	20		22	110	(75-130)
sec-Butylbenzene	20		21	105	(70-125)
p-Isopropyltoluene	20		21	105	(75-130)
1,3-Dichlorobenzene	20		20	100	(75-125)
1,4-Dichlorobenzene	20		21	105	(75-125)
n-Butylbenzene	20		20	100	(70-135)
1,2-Dichlorobenzene	20		21	105	(70-120)
1,2-Dibromo-3-Chloropropane	20		21	105	(50-130)
1,2,4-Trichlorobenzene	20		20	100	(65-135)
Hexachlorobutadiene	20		19	95	(50-140)
Naphthalene	20		23	115	(55-140)
1,2,3-Trichlorobenzene	20		21	105	(55-140)
Methyl Iodide	20		17	85	(70-130)

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

Comments: _____

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WATER VOLATILE LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: CHEMTECH **Client:** TRC Companies, Inc.

Lab Code: CHEM **Cas No:** D5165 **SAS No :** D5165 **SDG No:** D5165

Matrix Spike - EPA Sample No : VN1215WBS01 **Analytical Method:** EPA SW846 8260 **Datafile :** VN003304.D

COMPOUND	SPIKE ADDED (ug/L)	CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC#	QC LIMITS REC

RPD : 0 Out of 67 outside limits

Spike Recovery : 0 Out of 67 outside limits

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

Comments: _____

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WATER VOLATILE LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: CHEMTECH **Client:** TRC Companies, Inc.

Lab Code: CHEM **Cas No:** D5165 **SAS No :** D5165 **SDG No:** D5165

Matrix Spike - EPA Sample No : VN1217WBS01 **Analytical Method:** EPA SW846 8260 **Datafile :** VN003350.D

COMPOUND	SPIKE ADDED (ug/L)	CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC#	QC LIMITS REC
Dichlorodifluoromethane	20		19	95	(30-155)
Chloromethane	20		19	95	(40-125)
Vinyl Chloride	20		20	100	(50-145)
Bromomethane	20		21	105	(30-145)
Chloroethane	20		20	100	(60-135)
Trichlorofluoromethane	20		19	95	(60-145)
1,1-Dichloroethene	20		20	100	(70-130)
Acetone	100		100	100	(40-140)
Carbon Disulfide	20		20	100	(35-160)
Methyl tert-butyl Ether	20		19	95	(65-125)
Methylene Chloride	20		20	100	(55-140)
trans-1,2-Dichloroethene	20		20	100	(60-140)
Vinyl Acetate	100		91	91	(47-166)
1,1-Dichloroethane	20		20	100	(70-135)
2-Butanone	100		100	100	(30-150)
Carbon Tetrachloride	20		19	95	(65-140)
2,2-Dichloropropane	20		19	95	(70-135)
cis-1,2-Dichloroethene	20		19	95	(70-125)
Bromochloromethane	20		23	115	(65-130)
Chloroform	20		20	100	(65-135)
1,1,1-Trichloroethane	20		19	95	(65-130)
1,1-Dichloropropene	20		20	100	(75-130)
Benzene	20		20	100	(80-120)
1,2-Dichloroethane	20		20	100	(70-130)
Trichloroethene	20		19	95	(70-125)
1,2-Dichloropropane	20		20	100	(75-125)
Dibromomethane	20		20	100	(75-125)
Bromodichloromethane	20		20	100	(75-120)
4-Methyl-2-Pentanone	100		100	100	(60-135)
Toluene	20		20	100	(75-120)
t-1,3-Dichloropropene	20		19	95	(55-140)
cis-1,3-Dichloropropene	20		20	100	(70-130)
1,1,2-Trichloroethane	20		20	100	(75-125)
1,3-Dichloropropane	20		20	100	(75-125)

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

Comments: _____

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WATER VOLATILE LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: CHEMTECH **Client:** TRC Companies, Inc.

Lab Code: CHEM **Cas No:** D5165 **SAS No :** D5165 **SDG No:** D5165

Matrix Spike - EPA Sample No : VN1217WBS01 **Analytical Method:** EPA SW846 8260 **Datafile :** VN003350.D

COMPOUND	SPIKE ADDED (ug/L)	CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC#	QC LIMITS REC
2-Hexanone	100		100	100	(55-130)
Dibromochloromethane	20		20	100	(60-135)
1,2-Dibromoethane	20		19	95	(80-120)
Tetrachloroethene	20		20	100	(45-150)
Chlorobenzene	20		19	95	(80-120)
1,1,1,2-Tetrachloroethane	20		20	100	(80-130)
Ethyl Benzene	20		20	100	(75-125)
m/p-Xylenes	40		40	100	(75-130)
o-Xylene	20		20	100	(80-120)
Styrene	20		20	100	(65-135)
Bromoform	20		21	105	(70-130)
Isopropylbenzene	20		20	100	(75-125)
1,1,2,2-Tetrachloroethane	20		21	105	(65-130)
1,2,3-Trichloropropane	20		20	100	(75-125)
Bromobenzene	20		20	100	(75-125)
n-propylbenzene	20		21	105	(70-130)
2-Chlorotoluene	20		21	105	(75-125)
1,3,5-Trimethylbenzene	20		21	105	(75-130)
4-Chlorotoluene	20		20	100	(75-130)
tert-Butylbenzene	20		20	100	(70-130)
1,2,4-Trimethylbenzene	20		21	105	(75-130)
sec-Butylbenzene	20		20	100	(70-125)
p-Isopropyltoluene	20		21	105	(75-130)
1,3-Dichlorobenzene	20		20	100	(75-125)
1,4-Dichlorobenzene	20		20	100	(75-125)
n-Butylbenzene	20		21	105	(70-135)
1,2-Dichlorobenzene	20		20	100	(70-120)
1,2-Dibromo-3-Chloropropane	20		19	95	(50-130)
1,2,4-Trichlorobenzene	20		20	100	(65-135)
Hexachlorobutadiene	20		20	100	(50-140)
Naphthalene	20		20	100	(55-140)
1,2,3-Trichlorobenzene	20		21	105	(55-140)
Methyl Iodide	20		17	85	(70-130)

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

Comments: _____

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WATER VOLATILE LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: CHEMTECH **Client:** TRC Companies, Inc.

Lab Code: CHEM **Cas No:** D5165 **SAS No :** D5165 **SDG No:** D5165

Matrix Spike - EPA Sample No : VN1217WBS01 **Analytical Method:** EPA SW846 8260 **Datafile :** VN003350.D

COMPOUND	SPIKE ADDED (ug/L)	CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC#	QC LIMITS REC

RPD : 0 Out of 67 outside limits

Spike Recovery : 0 Out of 67 outside limits

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

Comments: _____

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
VN1214WBL01

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: D5165 SAS No.: D5165 SDG NO.: D5165

Lab File ID: VN003279.D Lab Sample ID: VN1214WBL01

Date Analyzed: 12/14/2012 Time Analyzed: 19:07

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_N

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VN1214WBS01	VN1214WBS01	VN003280.D	12/14/2012
MW-1-60MS	D5165-16MS	VN003281.D	12/14/2012
MW-1-60MSD	D5165-17MSD	VN003282.D	12/14/2012
MW-1-60	D5165-15	VN003292.D	12/15/2012

COMMENTS:

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN1215WBL01

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: D5165 SAS No.: D5165 SDG NO.: D5165

Lab File ID: VN003303.D Lab Sample ID: VN1215WBL01

Date Analyzed: 12/15/2012 Time Analyzed: 08:14

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_N

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VN1215WBS01	VN1215WBS01	VN003304.D	12/15/2012
EQUIPMENTBLANK	D5165-12	VN003307.D	12/15/2012
EQUIPMENTBLANK	D5165-19	VN003308.D	12/15/2012
MW-39S	D5165-01	VN003309.D	12/15/2012
DUP-A	D5165-02	VN003310.D	12/15/2012
MW-35S	D5165-03	VN003311.D	12/15/2012
MW-GF-6	D5165-04	VN003312.D	12/15/2012
MW-GF-9	D5165-05	VN003313.D	12/15/2012
MW-34S	D5165-06	VN003314.D	12/15/2012
MW-GF-7	D5165-07	VN003315.D	12/15/2012
MW-36S	D5165-08	VN003316.D	12/15/2012
MW-GF-15	D5165-13	VN003317.D	12/15/2012
MW-GF-17	D5165-14	VN003318.D	12/15/2012
DMW-5	D5165-18	VN003319.D	12/15/2012

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN1217WBL01

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: D5165 SAS No.: D5165 SDG NO.: D5165

Lab File ID: VN003349.D Lab Sample ID: VN1217WBL01

Date Analyzed: 12/17/2012 Time Analyzed: 12:19

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_N

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VN1217WBS01	VN1217WBS01	VN003350.D	12/17/2012
MW-GF-18MS	D5165-10MS	VN003351.D	12/17/2012
MW-GF-18MSD	D5165-11MSD	VN003352.D	12/17/2012
MW-GF-18	D5165-09	VN003361.D	12/17/2012

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: D5165 SAS No.: D5165 SDG NO.: D5165

Lab File ID: VN003269.D BFB Injection Date: 12/14/2012

Instrument ID: MSVOA_N BFB Injection Time: 11:53

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.2
75	30.0 - 60.0% of mass 95	49.1
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	0.0 (0.0) 1
174	50.0 - 100.0% of mass 95	88.1
175	5.0 - 9.0% of mass 174	6.5 (7.4) 1
176	95.0 - 101.0% of mass 174	84.6 (96) 1
177	5.0 - 9.0% of mass 176	5.9 (6.9) 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
VSTDICC001	VSTDICC001	VN003270.D	12/14/2012	12:28
VSTDICC005	VSTDICC005	VN003271.D	12/14/2012	13:11
VSTDICC020	VSTDICC020	VN003272.D	12/14/2012	13:39
VSTDICC050	VSTDICC050	VN003273.D	12/14/2012	14:07
VSTDICC100	VSTDICC100	VN003274.D	12/14/2012	14:35
VSTDICC200	VSTDICC200	VN003275.D	12/14/2012	15:03

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: D5165 SAS No.: D5165 SDG NO.: D5165

Lab File ID: VN003277.D BFB Injection Date: 12/14/2012

Instrument ID: MSVOA_N BFB Injection Time: 17:00

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.4
75	30.0 - 60.0% of mass 95	52.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.3
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 100.0% of mass 95	88.6
175	5.0 - 9.0% of mass 174	6.6 (7.4) 1
176	95.0 - 101.0% of mass 174	84.8 (95.7) 1
177	5.0 - 9.0% of mass 176	5.3 (6.2) 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
VSTDCCC050	VSTDCCC050	VN003278.D	12/14/2012	17:39
VN1214WBL01	VN1214WBL01	VN003279.D	12/14/2012	19:07
VN1214WBS01	VN1214WBS01	VN003280.D	12/14/2012	19:35
MW-1-60MS	D5165-16MS	VN003281.D	12/14/2012	20:03
MW-1-60MSD	D5165-17MSD	VN003282.D	12/14/2012	20:31
MW-1-60	D5165-15	VN003292.D	12/15/2012	01:10

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: D5165 SAS No.: D5165 SDG NO.: D5165

Lab File ID: VN003301.D BFB Injection Date: 12/15/2012

Instrument ID: MSVOA_N BFB Injection Time: 06:22

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.1
75	30.0 - 60.0% of mass 95	49.8
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 100.0% of mass 95	83.7
175	5.0 - 9.0% of mass 174	6.4 (7.7) 1
176	95.0 - 101.0% of mass 174	81.6 (97.5) 1
177	5.0 - 9.0% of mass 176	5.3 (6.5) 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
VSTDCCC050	VSTDCCC050	VN003302.D	12/15/2012	07:18
VN1215WBL01	VN1215WBL01	VN003303.D	12/15/2012	08:14
VN1215WBS01	VN1215WBS01	VN003304.D	12/15/2012	08:46
EQUIPMENTBLANK	D5165-12	VN003307.D	12/15/2012	10:10
EQUIPMENTBLANK	D5165-19	VN003308.D	12/15/2012	10:38
MW-39S	D5165-01	VN003309.D	12/15/2012	11:06
DUP-A	D5165-02	VN003310.D	12/15/2012	11:34
MW-35S	D5165-03	VN003311.D	12/15/2012	12:02
MW-GF-6	D5165-04	VN003312.D	12/15/2012	12:30
MW-GF-9	D5165-05	VN003313.D	12/15/2012	12:58
MW-34S	D5165-06	VN003314.D	12/15/2012	13:26
MW-GF-7	D5165-07	VN003315.D	12/15/2012	13:54
MW-36S	D5165-08	VN003316.D	12/15/2012	14:22
MW-GF-15	D5165-13	VN003317.D	12/15/2012	14:51
MW-GF-17	D5165-14	VN003318.D	12/15/2012	15:19
DMW-5	D5165-18	VN003319.D	12/15/2012	15:47

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: D5165 SAS No.: D5165 SDG NO.: D5165

Lab File ID: VN003347.D BFB Injection Date: 12/17/2012

Instrument ID: MSVOA_N BFB Injection Time: 10:50

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.9
75	30.0 - 60.0% of mass 95	50.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.6 (0.7) 1
174	50.0 - 100.0% of mass 95	84.7
175	5.0 - 9.0% of mass 174	5.8 (6.9) 1
176	95.0 - 101.0% of mass 174	83.3 (98.3) 1
177	5.0 - 9.0% of mass 176	5.6 (6.8) 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
VSTDCCC050	VSTDCCC050	VN003348.D	12/17/2012	11:29
VN1217WBL01	VN1217WBL01	VN003349.D	12/17/2012	12:19
VN1217WBS01	VN1217WBS01	VN003350.D	12/17/2012	12:57
MW-GF-18MS	D5165-10MS	VN003351.D	12/17/2012	13:25
MW-GF-18MSD	D5165-11MSD	VN003352.D	12/17/2012	13:53
MW-GF-18	D5165-09	VN003361.D	12/17/2012	18:34

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: D5165 SAS No.: D5165 SDG NO.: D5165

Lab File ID: VN003278.D Date Analyzed: 12/14/2012

Instrument ID: MSVOA_N Time Analyzed: 17:39

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	799288	7.87	1248217	8.79	1164204	11.61
UPPER LIMIT	1598576	8.37	2496434	9.29	2328408	12.11
LOWER LIMIT	399644	7.37	624108.5	8.29	582102	11.11
EPA SAMPLE NO.						
MW-1-60	639054	7.87	987221	8.79	904254	11.61
MW-1-60MS	782079	7.87	1250936	8.79	1164685	11.61
MW-1-60MSD	780632	7.87	1259777	8.79	1166147	11.61
VN1214WBL01	682196	7.87	1069020	8.79	965551	11.61
VN1214WBS01	734881	7.87	1192958	8.79	1093558	11.61

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.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: D5165 SAS No.: D5165 SDG NO.: D5165

Lab File ID: VN003278.D Date Analyzed: 12/14/2012

Instrument ID: MSVOA_N Time Analyzed: 17:39

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	609542	13.57				
UPPER LIMIT	1219084	14.07				
LOWER LIMIT	304771	13.07				
EPA SAMPLE NO.						
MW-1-60	452579	13.57				
MW-1-60MS	613035	13.57				
MW-1-60MSD	605757	13.57				
VN1214WBL01	478638	13.57				
VN1214WBS01	555414	13.57				

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.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: D5165 SAS No.: D5165 SDG NO.: D5165

Lab File ID: VN003302.D Date Analyzed: 12/15/2012

Instrument ID: MSVOA_N Time Analyzed: 07:18

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	855657	7.87	1448323	8.79	1317002	11.61
UPPER LIMIT	1711314	8.37	2896646	9.29	2634004	12.11
LOWER LIMIT	427828.5	7.37	724161.5	8.29	658501	11.11
EPA SAMPLE NO.						
MW-39S	721168	7.87	1125661	8.79	1019705	11.61
DUP-A	734927	7.87	1136509	8.79	1035698	11.61
MW-35S	730516	7.87	1139354	8.79	1031420	11.61
MW-GF-6	721610	7.87	1144032	8.79	1039992	11.61
MW-GF-9	734732	7.87	1141613	8.79	1046268	11.61
MW-34S	727916	7.87	1132825	8.79	1049246	11.61
MW-GF-7	714693	7.87	1111475	8.79	1010408	11.61
MW-36S	755583	7.87	1192876	8.79	1099055	11.61
EQUIPMENTBLANK	763264	7.87	1191600	8.79	1086665	11.61
MW-GF-15	769432	7.87	1220403	8.79	1114607	11.61
MW-GF-17	820248	7.87	1312193	8.79	1208365	11.61
DMW-5	809859	7.87	1287409	8.79	1162147	11.61
EQUIPMENTBLANK	717665	7.87	1124110	8.79	1015910	11.61
VN1215WBL01	775838	7.87	1221550	8.79	1102730	11.61
VN1215WBS01	803462	7.87	1377160	8.79	1257488	11.61

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.: D5165 SAS No.: D5165 SDG NO.: D5165

Lab File ID: VN003302.D Date Analyzed: 12/15/2012

Instrument ID: MSVOA_N Time Analyzed: 07:18

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	677769	13.57				
UPPER LIMIT	1355538	14.07				
LOWER LIMIT	338884.5	13.07				
EPA SAMPLE NO.						
MW-39S	516615	13.57				
DUP-A	524741	13.57				
MW-35S	536332	13.57				
MW-GF-6	531642	13.57				
MW-GF-9	529141	13.57				
MW-34S	530537	13.57				
MW-GF-7	528428	13.57				
MW-36S	583595	13.57				
EQUIPMENTBLANK	542543	13.57				
MW-GF-15	639583	13.57				
MW-GF-17	640971	13.57				
DMW-5	588512	13.57				
EQUIPMENTBLANK	500685	13.57				
VN1215WBL01	546256	13.57				
VN1215WBS01	614729	13.57				

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.: D5165 SAS No.: D5165 SDG NO.: D5165

Lab File ID: VN003348.D Date Analyzed: 12/17/2012

Instrument ID: MSVOA_N Time Analyzed: 11:29

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	818067	7.87	1284084	8.79	1191682	11.61
UPPER LIMIT	1636134	8.37	2568168	9.29	2383364	12.11
LOWER LIMIT	409033.5	7.37	642042	8.29	595841	11.11
EPA SAMPLE NO.						
MW-GF-18	871743	7.87	1398972	8.79	1270322	11.61
MW-GF-18MS	820942	7.87	1345924	8.79	1245506	11.61
MW-GF-18MSD	854704	7.87	1418787	8.79	1307329	11.61
VN1217WBL01	752394	7.87	1176542	8.79	1075044	11.61
VN1217WBS01	824317	7.87	1299200	8.79	1188292	11.61

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.: D5165 SAS No.: D5165 SDG NO.: D5165

Lab File ID: VN003348.D Date Analyzed: 12/17/2012

Instrument ID: MSVOA_N Time Analyzed: 11:29

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	619011	13.57				
UPPER LIMIT	1238022	14.07				
LOWER LIMIT	309505.5	13.07				
EPA SAMPLE NO.						
MW-GF-18	632310	13.57				
MW-GF-18MS	628557	13.57				
MW-GF-18MSD	740821	13.57				
VN1217WBL01	518737	13.57				
VN1217WBS01	607692	13.57				

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:	Morris Park & Richmond Hill Yards	Date Received:	
Client Sample ID:	VN1214WBL01	SDG No.:	D5165
Lab Sample ID:	VN1214WBL01	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003279.D	1		12/14/12	VN121412

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.5	U	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.5	U	0.47	0.5	1	ug/L
67-64-1	Acetone	2.5	U	0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.5	U	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
108-05-4	Vinyl Acetate	2.5	U	1	2.5	5	ug/L
75-34-3	1,1-Dichloroethane	0.5	U	0.36	0.5	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
594-20-7	2,2-Dichloropropane	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.5	U	0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.5	U	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
563-58-6	1,1-Dichloropropene	0.5	U	0.39	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	0.5	U	0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
74-95-3	Dibromomethane	0.5	U	0.44	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	Morris Park & Richmond Hill Yards	Date Received:	
Client Sample ID:	VN1214WBL01	SDG No.:	D5165
Lab Sample ID:	VN1214WBL01	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003279.D	1		12/14/12	VN121412

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
142-28-9	1,3-Dichloropropane	0.5	U	0.35	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.52	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	0.5	U	0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	0.5	U	0.43	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
96-18-4	1,2,3-Trichloropropane	0.5	U	0.5	0.5	1	ug/L
108-86-1	Bromobenzene	0.5	U	0.2	0.5	1	ug/L
103-65-1	n-propylbenzene	0.5	U	0.45	0.5	1	ug/L
95-49-8	2-Chlorotoluene	0.5	U	0.43	0.5	1	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.5	U	0.46	0.5	1	ug/L
106-43-4	4-Chlorotoluene	0.5	U	0.42	0.5	1	ug/L
98-06-6	tert-Butylbenzene	0.5	U	0.44	0.5	1	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.5	U	0.38	0.5	1	ug/L
135-98-8	sec-Butylbenzene	0.5	U	0.46	0.5	1	ug/L
99-87-6	p-Isopropyltoluene	0.5	U	0.43	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
104-51-8	n-Butylbenzene	0.5	U	0.41	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	Morris Park & Richmond Hill Yards	Date Received:	
Client Sample ID:	VN1214WBL01	SDG No.:	D5165
Lab Sample ID:	VN1214WBL01	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003279.D	1		12/14/12	VN121412

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
87-68-3	Hexachlorobutadiene	0.5	U	0.2	0.5	1	ug/L
91-20-3	Naphthalene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
74-88-4	Methyl Iodide	0.5	U	0.2	0.5	1	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	46.2		70 - 120		93%	SPK: 50
1868-53-7	Dibromofluoromethane	47.8		85 - 115		96%	SPK: 50
2037-26-5	Toluene-d8	47.6		85 - 120		95%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.2		75 - 120		90%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	682196	7.87				
540-36-3	1,4-Difluorobenzene	1069020	8.79				
3114-55-4	Chlorobenzene-d5	965551	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	478638	13.57				

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	Morris Park & Richmond Hill Yards	Date Received:	
Client Sample ID:	VN1215WBL01	SDG No.:	D5165
Lab Sample ID:	VN1215WBL01	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003303.D	1		12/15/12	vn121512

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.5	U	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.5	U	0.47	0.5	1	ug/L
67-64-1	Acetone	2.5	U	0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.5	U	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
108-05-4	Vinyl Acetate	2.5	U	1	2.5	5	ug/L
75-34-3	1,1-Dichloroethane	0.5	U	0.36	0.5	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
594-20-7	2,2-Dichloropropane	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.5	U	0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.5	U	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
563-58-6	1,1-Dichloropropene	0.5	U	0.39	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	0.5	U	0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
74-95-3	Dibromomethane	0.5	U	0.44	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	Morris Park & Richmond Hill Yards	Date Received:	
Client Sample ID:	VN1215WBL01	SDG No.:	D5165
Lab Sample ID:	VN1215WBL01	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003303.D	1		12/15/12	vn121512

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
142-28-9	1,3-Dichloropropane	0.5	U	0.35	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.52	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	0.5	U	0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	0.5	U	0.43	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
96-18-4	1,2,3-Trichloropropane	0.5	U	0.5	0.5	1	ug/L
108-86-1	Bromobenzene	0.5	U	0.2	0.5	1	ug/L
103-65-1	n-propylbenzene	0.5	U	0.45	0.5	1	ug/L
95-49-8	2-Chlorotoluene	0.5	U	0.43	0.5	1	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.5	U	0.46	0.5	1	ug/L
106-43-4	4-Chlorotoluene	0.5	U	0.42	0.5	1	ug/L
98-06-6	tert-Butylbenzene	0.5	U	0.44	0.5	1	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.5	U	0.38	0.5	1	ug/L
135-98-8	sec-Butylbenzene	0.5	U	0.46	0.5	1	ug/L
99-87-6	p-Isopropyltoluene	0.5	U	0.43	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
104-51-8	n-Butylbenzene	0.5	U	0.41	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L

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Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	Morris Park & Richmond Hill Yards	Date Received:	
Client Sample ID:	VN1215WBL01	SDG No.:	D5165
Lab Sample ID:	VN1215WBL01	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003303.D	1		12/15/12	vn121512

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
87-68-3	Hexachlorobutadiene	0.5	U	0.2	0.5	1	ug/L
91-20-3	Naphthalene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
74-88-4	Methyl Iodide	0.5	U	0.2	0.5	1	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	46.4		70 - 120		93%	SPK: 50
1868-53-7	Dibromofluoromethane	46.5		85 - 115		93%	SPK: 50
2037-26-5	Toluene-d8	47.5		85 - 120		95%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.7		75 - 120		91%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	775838	7.87				
540-36-3	1,4-Difluorobenzene	1221550	8.79				
3114-55-4	Chlorobenzene-d5	1102730	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	546256	13.57				

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	Morris Park & Richmond Hill Yards	Date Received:	
Client Sample ID:	VN1217WBL01	SDG No.:	D5165
Lab Sample ID:	VN1217WBL01	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003349.D	1		12/17/12	VN121712

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.5	U	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.5	U	0.47	0.5	1	ug/L
67-64-1	Acetone	2.5	U	0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.5	U	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
108-05-4	Vinyl Acetate	2.5	U	1	2.5	5	ug/L
75-34-3	1,1-Dichloroethane	0.5	U	0.36	0.5	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
594-20-7	2,2-Dichloropropane	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.5	U	0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.5	U	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
563-58-6	1,1-Dichloropropene	0.5	U	0.39	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	0.5	U	0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
74-95-3	Dibromomethane	0.5	U	0.44	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	Morris Park & Richmond Hill Yards	Date Received:	
Client Sample ID:	VN1217WBL01	SDG No.:	D5165
Lab Sample ID:	VN1217WBL01	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003349.D	1		12/17/12	VN121712

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
142-28-9	1,3-Dichloropropane	0.5	U	0.35	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.52	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	0.5	U	0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	0.5	U	0.43	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
96-18-4	1,2,3-Trichloropropane	0.5	U	0.5	0.5	1	ug/L
108-86-1	Bromobenzene	0.5	U	0.2	0.5	1	ug/L
103-65-1	n-propylbenzene	0.5	U	0.45	0.5	1	ug/L
95-49-8	2-Chlorotoluene	0.5	U	0.43	0.5	1	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.5	U	0.46	0.5	1	ug/L
106-43-4	4-Chlorotoluene	0.5	U	0.42	0.5	1	ug/L
98-06-6	tert-Butylbenzene	0.5	U	0.44	0.5	1	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.5	U	0.38	0.5	1	ug/L
135-98-8	sec-Butylbenzene	0.5	U	0.46	0.5	1	ug/L
99-87-6	p-Isopropyltoluene	0.5	U	0.43	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
104-51-8	n-Butylbenzene	0.5	U	0.41	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L

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Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	Morris Park & Richmond Hill Yards	Date Received:	
Client Sample ID:	VN1217WBL01	SDG No.:	D5165
Lab Sample ID:	VN1217WBL01	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003349.D	1		12/17/12	VN121712

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
87-68-3	Hexachlorobutadiene	0.5	U	0.2	0.5	1	ug/L
91-20-3	Naphthalene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
74-88-4	Methyl Iodide	0.5	U	0.2	0.5	1	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	46.3		70 - 120		93%	SPK: 50
1868-53-7	Dibromofluoromethane	47.7		85 - 115		95%	SPK: 50
2037-26-5	Toluene-d8	47.2		85 - 120		94%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.9		75 - 120		92%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	752394	7.87				
540-36-3	1,4-Difluorobenzene	1176540	8.79				
3114-55-4	Chlorobenzene-d5	1075040	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	518737	13.57				

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	Morris Park & Richmond Hill Yards	Date Received:	
Client Sample ID:	VN1214WBS01	SDG No.:	D5165
Lab Sample ID:	VN1214WBS01	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003280.D	1		12/14/12	VN121412

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	21		0.2	0.5	1	ug/L
74-87-3	Chloromethane	20		0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	21		0.34	0.5	1	ug/L
74-83-9	Bromomethane	22		0.2	0.5	1	ug/L
75-00-3	Chloroethane	21		0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	20		0.35	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	21		0.47	0.5	1	ug/L
67-64-1	Acetone	84		0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	20		0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	20		0.35	0.5	1	ug/L
75-09-2	Methylene Chloride	21		0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	20		0.41	0.5	1	ug/L
108-05-4	Vinyl Acetate	100		1	2.5	5	ug/L
75-34-3	1,1-Dichloroethane	21		0.36	0.5	1	ug/L
78-93-3	2-Butanone	92		1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	20		0.2	0.5	1	ug/L
594-20-7	2,2-Dichloropropane	20		0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	21		0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	22		0.2	0.5	1	ug/L
67-66-3	Chloroform	21		0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	20		0.4	0.5	1	ug/L
563-58-6	1,1-Dichloropropene	20		0.39	0.5	1	ug/L
71-43-2	Benzene	20		0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	20		0.48	0.5	1	ug/L
79-01-6	Trichloroethene	20		0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	20		0.46	0.5	1	ug/L
74-95-3	Dibromomethane	20		0.44	0.5	1	ug/L
75-27-4	Bromodichloromethane	20		0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	95		2.1	2.5	5	ug/L
108-88-3	Toluene	20		0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	19		0.29	0.5	1	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	Morris Park & Richmond Hill Yards	Date Received:	
Client Sample ID:	VN1214WBS01	SDG No.:	D5165
Lab Sample ID:	VN1214WBS01	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003280.D	1		12/14/12	VN121412

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	20		0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	20		0.38	0.5	1	ug/L
142-28-9	1,3-Dichloropropane	20		0.35	0.5	1	ug/L
591-78-6	2-Hexanone	92		1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	19		0.52	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	19		0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	21		0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	20		0.49	0.5	1	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	20		0.43	0.5	1	ug/L
100-41-4	Ethyl Benzene	20		0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	40		0.95	1	2	ug/L
95-47-6	o-Xylene	20		0.43	0.5	1	ug/L
100-42-5	Styrene	20		0.36	0.5	1	ug/L
75-25-2	Bromoform	20		0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	20		0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	20		0.31	0.5	1	ug/L
96-18-4	1,2,3-Trichloropropane	20		0.5	0.5	1	ug/L
108-86-1	Bromobenzene	20		0.2	0.5	1	ug/L
103-65-1	n-propylbenzene	20		0.45	0.5	1	ug/L
95-49-8	2-Chlorotoluene	21		0.43	0.5	1	ug/L
108-67-8	1,3,5-Trimethylbenzene	20		0.46	0.5	1	ug/L
106-43-4	4-Chlorotoluene	20		0.42	0.5	1	ug/L
98-06-6	tert-Butylbenzene	21		0.44	0.5	1	ug/L
95-63-6	1,2,4-Trimethylbenzene	21		0.38	0.5	1	ug/L
135-98-8	sec-Butylbenzene	21		0.46	0.5	1	ug/L
99-87-6	p-Isopropyltoluene	20		0.43	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	20		0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	20		0.32	0.5	1	ug/L
104-51-8	n-Butylbenzene	20		0.41	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	20		0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	19		0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	21		0.2	0.5	1	ug/L

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Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	Morris Park & Richmond Hill Yards	Date Received:	
Client Sample ID:	VN1214WBS01	SDG No.:	D5165
Lab Sample ID:	VN1214WBS01	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003280.D	1		12/14/12	VN121412

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
87-68-3	Hexachlorobutadiene	20		0.2	0.5	1	ug/L
91-20-3	Naphthalene	21		0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	21		0.2	0.5	1	ug/L
74-88-4	Methyl Iodide	19		0.2	0.5	1	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	51.6		70 - 120		103%	SPK: 50
1868-53-7	Dibromofluoromethane	51.6		85 - 115		103%	SPK: 50
2037-26-5	Toluene-d8	50.2		85 - 120		100%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.1		75 - 120		96%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	734881	7.87				
540-36-3	1,4-Difluorobenzene	1192960	8.79				
3114-55-4	Chlorobenzene-d5	1093560	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	555414	13.57				

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	Morris Park & Richmond Hill Yards	Date Received:	
Client Sample ID:	VN1215WBS01	SDG No.:	D5165
Lab Sample ID:	VN1215WBS01	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003304.D	1		12/15/12	vn121512

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	20		0.2	0.5	1	ug/L
74-87-3	Chloromethane	23		0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	25		0.34	0.5	1	ug/L
74-83-9	Bromomethane	21		0.2	0.5	1	ug/L
75-00-3	Chloroethane	24		0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	21		0.35	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	23		0.47	0.5	1	ug/L
67-64-1	Acetone	98		0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	22		0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	23		0.35	0.5	1	ug/L
75-09-2	Methylene Chloride	22		0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	21		0.41	0.5	1	ug/L
108-05-4	Vinyl Acetate	110		1	2.5	5	ug/L
75-34-3	1,1-Dichloroethane	23		0.36	0.5	1	ug/L
78-93-3	2-Butanone	110		1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	20		0.2	0.5	1	ug/L
594-20-7	2,2-Dichloropropane	16		0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	22		0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	25		0.2	0.5	1	ug/L
67-66-3	Chloroform	22		0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	22		0.4	0.5	1	ug/L
563-58-6	1,1-Dichloropropene	20		0.39	0.5	1	ug/L
71-43-2	Benzene	20		0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	20		0.48	0.5	1	ug/L
79-01-6	Trichloroethene	20		0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	21		0.46	0.5	1	ug/L
74-95-3	Dibromomethane	21		0.44	0.5	1	ug/L
75-27-4	Bromodichloromethane	20		0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	110		2.1	2.5	5	ug/L
108-88-3	Toluene	20		0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	19		0.29	0.5	1	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	Morris Park & Richmond Hill Yards	Date Received:	
Client Sample ID:	VN1215WBS01	SDG No.:	D5165
Lab Sample ID:	VN1215WBS01	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003304.D	1		12/15/12	vn121512

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	20		0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	21		0.38	0.5	1	ug/L
142-28-9	1,3-Dichloropropane	21		0.35	0.5	1	ug/L
591-78-6	2-Hexanone	110		1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	20		0.52	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	20		0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	21		0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	20		0.49	0.5	1	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	20		0.43	0.5	1	ug/L
100-41-4	Ethyl Benzene	20		0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	41		0.95	1	2	ug/L
95-47-6	o-Xylene	21		0.43	0.5	1	ug/L
100-42-5	Styrene	21		0.36	0.5	1	ug/L
75-25-2	Bromoform	21		0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	21		0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	23		0.31	0.5	1	ug/L
96-18-4	1,2,3-Trichloropropane	21		0.5	0.5	1	ug/L
108-86-1	Bromobenzene	21		0.2	0.5	1	ug/L
103-65-1	n-propylbenzene	21		0.45	0.5	1	ug/L
95-49-8	2-Chlorotoluene	22		0.43	0.5	1	ug/L
108-67-8	1,3,5-Trimethylbenzene	21		0.46	0.5	1	ug/L
106-43-4	4-Chlorotoluene	21		0.42	0.5	1	ug/L
98-06-6	tert-Butylbenzene	21		0.44	0.5	1	ug/L
95-63-6	1,2,4-Trimethylbenzene	22		0.38	0.5	1	ug/L
135-98-8	sec-Butylbenzene	21		0.46	0.5	1	ug/L
99-87-6	p-Isopropyltoluene	21		0.43	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	20		0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	21		0.32	0.5	1	ug/L
104-51-8	n-Butylbenzene	20		0.41	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	21		0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	21		0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	20		0.2	0.5	1	ug/L

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Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	Morris Park & Richmond Hill Yards	Date Received:	
Client Sample ID:	VN1215WBS01	SDG No.:	D5165
Lab Sample ID:	VN1215WBS01	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003304.D	1		12/15/12	vn121512

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
87-68-3	Hexachlorobutadiene	19		0.2	0.5	1	ug/L
91-20-3	Naphthalene	23		0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	21		0.2	0.5	1	ug/L
74-88-4	Methyl Iodide	17		0.2	0.5	1	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	55.7		70 - 120		111%	SPK: 50
1868-53-7	Dibromofluoromethane	51.6		85 - 115		103%	SPK: 50
2037-26-5	Toluene-d8	51		85 - 120		102%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.8		75 - 120		98%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	803462	7.87				
540-36-3	1,4-Difluorobenzene	1377160	8.79				
3114-55-4	Chlorobenzene-d5	1257490	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	614729	13.57				

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	Morris Park & Richmond Hill Yards	Date Received:	
Client Sample ID:	VN1217WBS01	SDG No.:	D5165
Lab Sample ID:	VN1217WBS01	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003350.D	1		12/17/12	VN121712

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	19		0.2	0.5	1	ug/L
74-87-3	Chloromethane	19		0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	20		0.34	0.5	1	ug/L
74-83-9	Bromomethane	21		0.2	0.5	1	ug/L
75-00-3	Chloroethane	20		0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	19		0.35	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	20		0.47	0.5	1	ug/L
67-64-1	Acetone	100		0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	20		0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	19		0.35	0.5	1	ug/L
75-09-2	Methylene Chloride	20		0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	20		0.41	0.5	1	ug/L
108-05-4	Vinyl Acetate	91		1	2.5	5	ug/L
75-34-3	1,1-Dichloroethane	20		0.36	0.5	1	ug/L
78-93-3	2-Butanone	100		1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	19		0.2	0.5	1	ug/L
594-20-7	2,2-Dichloropropane	19		0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	19		0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	23		0.2	0.5	1	ug/L
67-66-3	Chloroform	20		0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	19		0.4	0.5	1	ug/L
563-58-6	1,1-Dichloropropene	20		0.39	0.5	1	ug/L
71-43-2	Benzene	20		0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	20		0.48	0.5	1	ug/L
79-01-6	Trichloroethene	19		0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	20		0.46	0.5	1	ug/L
74-95-3	Dibromomethane	20		0.44	0.5	1	ug/L
75-27-4	Bromodichloromethane	20		0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	100		2.1	2.5	5	ug/L
108-88-3	Toluene	20		0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	19		0.29	0.5	1	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	Morris Park & Richmond Hill Yards	Date Received:	
Client Sample ID:	VN1217WBS01	SDG No.:	D5165
Lab Sample ID:	VN1217WBS01	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003350.D	1		12/17/12	VN121712

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	20		0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	20		0.38	0.5	1	ug/L
142-28-9	1,3-Dichloropropane	20		0.35	0.5	1	ug/L
591-78-6	2-Hexanone	100		1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	20		0.52	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	19		0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	20		0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	19		0.49	0.5	1	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	20		0.43	0.5	1	ug/L
100-41-4	Ethyl Benzene	20		0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	40		0.95	1	2	ug/L
95-47-6	o-Xylene	20		0.43	0.5	1	ug/L
100-42-5	Styrene	20		0.36	0.5	1	ug/L
75-25-2	Bromoform	21		0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	20		0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	21		0.31	0.5	1	ug/L
96-18-4	1,2,3-Trichloropropane	20		0.5	0.5	1	ug/L
108-86-1	Bromobenzene	20		0.2	0.5	1	ug/L
103-65-1	n-propylbenzene	21		0.45	0.5	1	ug/L
95-49-8	2-Chlorotoluene	21		0.43	0.5	1	ug/L
108-67-8	1,3,5-Trimethylbenzene	21		0.46	0.5	1	ug/L
106-43-4	4-Chlorotoluene	20		0.42	0.5	1	ug/L
98-06-6	tert-Butylbenzene	20		0.44	0.5	1	ug/L
95-63-6	1,2,4-Trimethylbenzene	21		0.38	0.5	1	ug/L
135-98-8	sec-Butylbenzene	20		0.46	0.5	1	ug/L
99-87-6	p-Isopropyltoluene	21		0.43	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	20		0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	20		0.32	0.5	1	ug/L
104-51-8	n-Butylbenzene	21		0.41	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	20		0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	19		0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	20		0.2	0.5	1	ug/L

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Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	Morris Park & Richmond Hill Yards	Date Received:	
Client Sample ID:	VN1217WBS01	SDG No.:	D5165
Lab Sample ID:	VN1217WBS01	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003350.D	1		12/17/12	VN121712

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
87-68-3	Hexachlorobutadiene	20		0.2	0.5	1	ug/L
91-20-3	Naphthalene	20		0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	21		0.2	0.5	1	ug/L
74-88-4	Methyl Iodide	17		0.2	0.5	1	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	49		70 - 120		98%	SPK: 50
1868-53-7	Dibromofluoromethane	50.1		85 - 115		100%	SPK: 50
2037-26-5	Toluene-d8	48.8		85 - 120		98%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.4		75 - 120		97%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	824317	7.87				
540-36-3	1,4-Difluorobenzene	1299200	8.79				
3114-55-4	Chlorobenzene-d5	1188290	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	607692	13.57				

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/12/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-GF-18MS	SDG No.:	D5165
Lab Sample ID:	D5165-10MS	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003351.D	1		12/17/12	VN121712

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	49		0.2	0.5	1	ug/L
74-87-3	Chloromethane	51		0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	53		0.34	0.5	1	ug/L
74-83-9	Bromomethane	53		0.2	0.5	1	ug/L
75-00-3	Chloroethane	51		0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	48		0.35	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	51		0.47	0.5	1	ug/L
67-64-1	Acetone	230		0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	51		0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	52		0.35	0.5	1	ug/L
75-09-2	Methylene Chloride	50		0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	49		0.41	0.5	1	ug/L
108-05-4	Vinyl Acetate	260		1	2.5	5	ug/L
75-34-3	1,1-Dichloroethane	51		0.36	0.5	1	ug/L
78-93-3	2-Butanone	270		1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	48		0.2	0.5	1	ug/L
594-20-7	2,2-Dichloropropane	50		0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	49		0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	53		0.2	0.5	1	ug/L
67-66-3	Chloroform	51		0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	48		0.4	0.5	1	ug/L
563-58-6	1,1-Dichloropropene	48		0.39	0.5	1	ug/L
71-43-2	Benzene	48		0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	49		0.48	0.5	1	ug/L
79-01-6	Trichloroethene	46		0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	50		0.46	0.5	1	ug/L
74-95-3	Dibromomethane	50		0.44	0.5	1	ug/L
75-27-4	Bromodichloromethane	50		0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	290		2.1	2.5	5	ug/L
108-88-3	Toluene	49		0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	49		0.29	0.5	1	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/12/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-GF-18MS	SDG No.:	D5165
Lab Sample ID:	D5165-10MS	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003351.D	1		12/17/12	VN121712

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	50		0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	49		0.38	0.5	1	ug/L
142-28-9	1,3-Dichloropropane	49		0.35	0.5	1	ug/L
591-78-6	2-Hexanone	290		1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	49		0.52	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	49		0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	46		0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	48		0.49	0.5	1	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	49		0.43	0.5	1	ug/L
100-41-4	Ethyl Benzene	49		0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	96		0.95	1	2	ug/L
95-47-6	o-Xylene	49		0.43	0.5	1	ug/L
100-42-5	Styrene	51		0.36	0.5	1	ug/L
75-25-2	Bromoform	54		0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	53		0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	54		0.31	0.5	1	ug/L
96-18-4	1,2,3-Trichloropropane	54		0.5	0.5	1	ug/L
108-86-1	Bromobenzene	48		0.2	0.5	1	ug/L
103-65-1	n-propylbenzene	53		0.45	0.5	1	ug/L
95-49-8	2-Chlorotoluene	51		0.43	0.5	1	ug/L
108-67-8	1,3,5-Trimethylbenzene	51		0.46	0.5	1	ug/L
106-43-4	4-Chlorotoluene	51		0.42	0.5	1	ug/L
98-06-6	tert-Butylbenzene	51		0.44	0.5	1	ug/L
95-63-6	1,2,4-Trimethylbenzene	52		0.38	0.5	1	ug/L
135-98-8	sec-Butylbenzene	56		0.46	0.5	1	ug/L
99-87-6	p-Isopropyltoluene	51		0.43	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	49		0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	49		0.32	0.5	1	ug/L
104-51-8	n-Butylbenzene	55		0.41	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	50		0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	55		0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	47		0.2	0.5	1	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/12/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-GF-18MS	SDG No.:	D5165
Lab Sample ID:	D5165-10MS	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003351.D	1		12/17/12	VN121712

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
87-68-3	Hexachlorobutadiene	44		0.2	0.5	1	ug/L
91-20-3	Naphthalene	53		0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	47		0.2	0.5	1	ug/L
74-88-4	Methyl Iodide	46		0.2	0.5	1	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	50.9		70 - 120		102%	SPK: 50
1868-53-7	Dibromofluoromethane	49.8		85 - 115		100%	SPK: 50
2037-26-5	Toluene-d8	48.4		85 - 120		97%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.9		75 - 120		98%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	820942	7.87				
540-36-3	1,4-Difluorobenzene	1345920	8.79				
3114-55-4	Chlorobenzene-d5	1245510	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	628557	13.57				

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/13/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-1-60MS	SDG No.:	D5165
Lab Sample ID:	D5165-16MS	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003281.D	1		12/14/12	VN121412

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	52		0.2	0.5	1	ug/L
74-87-3	Chloromethane	52		0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	52		0.34	0.5	1	ug/L
74-83-9	Bromomethane	53		0.2	0.5	1	ug/L
75-00-3	Chloroethane	50		0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	49		0.35	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	50		0.47	0.5	1	ug/L
67-64-1	Acetone	190		0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	50		0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	49		0.35	0.5	1	ug/L
75-09-2	Methylene Chloride	50		0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	49		0.41	0.5	1	ug/L
108-05-4	Vinyl Acetate	260		1	2.5	5	ug/L
75-34-3	1,1-Dichloroethane	50		0.36	0.5	1	ug/L
78-93-3	2-Butanone	220		1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	50		0.2	0.5	1	ug/L
594-20-7	2,2-Dichloropropane	53		0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	49		0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	52		0.2	0.5	1	ug/L
67-66-3	Chloroform	50		0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	50		0.4	0.5	1	ug/L
563-58-6	1,1-Dichloropropene	49		0.39	0.5	1	ug/L
71-43-2	Benzene	49		0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	49		0.48	0.5	1	ug/L
79-01-6	Trichloroethene	48		0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	49		0.46	0.5	1	ug/L
74-95-3	Dibromomethane	49		0.44	0.5	1	ug/L
75-27-4	Bromodichloromethane	51		0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	240		2.1	2.5	5	ug/L
108-88-3	Toluene	50		0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	50		0.29	0.5	1	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/13/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-1-60MS	SDG No.:	D5165
Lab Sample ID:	D5165-16MS	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003281.D	1		12/14/12	VN121412

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	51		0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	48		0.38	0.5	1	ug/L
142-28-9	1,3-Dichloropropane	49		0.35	0.5	1	ug/L
591-78-6	2-Hexanone	240		1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	49		0.2	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	48		0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	53		0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	49		0.49	0.5	1	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	50		0.43	0.5	1	ug/L
100-41-4	Ethyl Benzene	50		0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	100		0.95	1	2	ug/L
95-47-6	o-Xylene	51		0.43	0.5	1	ug/L
100-42-5	Styrene	51		0.36	0.5	1	ug/L
75-25-2	Bromoform	50		0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	49		0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	49		0.31	0.5	1	ug/L
96-18-4	1,2,3-Trichloropropane	47		0.5	0.5	1	ug/L
108-86-1	Bromobenzene	48		0.2	0.5	1	ug/L
103-65-1	n-propylbenzene	50		0.45	0.5	1	ug/L
95-49-8	2-Chlorotoluene	50		0.43	0.5	1	ug/L
108-67-8	1,3,5-Trimethylbenzene	50		0.46	0.5	1	ug/L
106-43-4	4-Chlorotoluene	50		0.42	0.5	1	ug/L
98-06-6	tert-Butylbenzene	49		0.44	0.5	1	ug/L
95-63-6	1,2,4-Trimethylbenzene	51		0.38	0.5	1	ug/L
135-98-8	sec-Butylbenzene	50		0.46	0.5	1	ug/L
99-87-6	p-Isopropyltoluene	51		0.43	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	48		0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	48		0.32	0.5	1	ug/L
104-51-8	n-Butylbenzene	51		0.41	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	49		0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	45		0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	48		0.2	0.5	1	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/13/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-1-60MS	SDG No.:	D5165
Lab Sample ID:	D5165-16MS	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003281.D	1		12/14/12	VN121412

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
87-68-3	Hexachlorobutadiene	46		0.2	0.5	1	ug/L
91-20-3	Naphthalene	49		0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	47		0.2	0.5	1	ug/L
74-88-4	Methyl Iodide	49		0.2	0.5	1	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	50.4		61 - 141		101%	SPK: 50
1868-53-7	Dibromofluoromethane	50.8		69 - 133		102%	SPK: 50
2037-26-5	Toluene-d8	50.4		65 - 126		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.7		58 - 135		99%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	782079	7.87				
540-36-3	1,4-Difluorobenzene	1250940	8.79				
3114-55-4	Chlorobenzene-d5	1164690	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	613035	13.57				

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/12/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-GF-18MSD	SDG No.:	D5165
Lab Sample ID:	D5165-11MSD	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003352.D	1		12/17/12	VN121712

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	50		0.2	0.5	1	ug/L
74-87-3	Chloromethane	55		0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	58		0.34	0.5	1	ug/L
74-83-9	Bromomethane	57		0.2	0.5	1	ug/L
75-00-3	Chloroethane	54		0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	49		0.35	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	53		0.47	0.5	1	ug/L
67-64-1	Acetone	230		0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	53		0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	52		0.35	0.5	1	ug/L
75-09-2	Methylene Chloride	52		0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	50		0.41	0.5	1	ug/L
108-05-4	Vinyl Acetate	270		1	2.5	5	ug/L
75-34-3	1,1-Dichloroethane	53		0.36	0.5	1	ug/L
78-93-3	2-Butanone	270		1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	48		0.2	0.5	1	ug/L
594-20-7	2,2-Dichloropropane	50		0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	51		0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	56		0.2	0.5	1	ug/L
67-66-3	Chloroform	52		0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	49		0.4	0.5	1	ug/L
563-58-6	1,1-Dichloropropene	48		0.39	0.5	1	ug/L
71-43-2	Benzene	49		0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	48		0.48	0.5	1	ug/L
79-01-6	Trichloroethene	46		0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	51		0.46	0.5	1	ug/L
74-95-3	Dibromomethane	49		0.44	0.5	1	ug/L
75-27-4	Bromodichloromethane	51		0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	290		2.1	2.5	5	ug/L
108-88-3	Toluene	49		0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	50		0.29	0.5	1	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/12/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-GF-18MSD	SDG No.:	D5165
Lab Sample ID:	D5165-11MSD	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003352.D	1		12/17/12	VN121712

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	51		0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	49		0.38	0.5	1	ug/L
142-28-9	1,3-Dichloropropane	50		0.35	0.5	1	ug/L
591-78-6	2-Hexanone	290		1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	50		0.52	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	49		0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	45		0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	48		0.49	0.5	1	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	50		0.43	0.5	1	ug/L
100-41-4	Ethyl Benzene	50		0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	97		0.95	1	2	ug/L
95-47-6	o-Xylene	50		0.43	0.5	1	ug/L
100-42-5	Styrene	52		0.36	0.5	1	ug/L
75-25-2	Bromoform	54		0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	47		0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	48		0.31	0.5	1	ug/L
96-18-4	1,2,3-Trichloropropane	47		0.5	0.5	1	ug/L
108-86-1	Bromobenzene	45		0.2	0.5	1	ug/L
103-65-1	n-propylbenzene	47		0.45	0.5	1	ug/L
95-49-8	2-Chlorotoluene	46		0.43	0.5	1	ug/L
108-67-8	1,3,5-Trimethylbenzene	44		0.46	0.5	1	ug/L
106-43-4	4-Chlorotoluene	46		0.42	0.5	1	ug/L
98-06-6	tert-Butylbenzene	44		0.44	0.5	1	ug/L
95-63-6	1,2,4-Trimethylbenzene	46		0.38	0.5	1	ug/L
135-98-8	sec-Butylbenzene	49		0.46	0.5	1	ug/L
99-87-6	p-Isopropyltoluene	44		0.43	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	43		0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	44		0.32	0.5	1	ug/L
104-51-8	n-Butylbenzene	48		0.41	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	45		0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	48		0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	42		0.2	0.5	1	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/12/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-GF-18MSD	SDG No.:	D5165
Lab Sample ID:	D5165-11MSD	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003352.D	1		12/17/12	VN121712

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
87-68-3	Hexachlorobutadiene	36		0.2	0.5	1	ug/L
91-20-3	Naphthalene	48		0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	42		0.2	0.5	1	ug/L
74-88-4	Methyl Iodide	49		0.2	0.5	1	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	51.4		70 - 120		103%	SPK: 50
1868-53-7	Dibromofluoromethane	50.1		85 - 115		100%	SPK: 50
2037-26-5	Toluene-d8	49		85 - 120		98%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.7		75 - 120		97%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	854704	7.87				
540-36-3	1,4-Difluorobenzene	1418790	8.79				
3114-55-4	Chlorobenzene-d5	1307330	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	740821	13.57				

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/13/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-1-60MSD	SDG No.:	D5165
Lab Sample ID:	D5165-17MSD	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003282.D	1		12/14/12	VN121412

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	51		0.2	0.5	1	ug/L
74-87-3	Chloromethane	52		0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	54		0.34	0.5	1	ug/L
74-83-9	Bromomethane	55		0.2	0.5	1	ug/L
75-00-3	Chloroethane	51		0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	49		0.35	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	51		0.47	0.5	1	ug/L
67-64-1	Acetone	190		0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	50		0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	50		0.35	0.5	1	ug/L
75-09-2	Methylene Chloride	50		0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	50		0.41	0.5	1	ug/L
108-05-4	Vinyl Acetate	260		1	2.5	5	ug/L
75-34-3	1,1-Dichloroethane	51		0.36	0.5	1	ug/L
78-93-3	2-Butanone	220		1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	49		0.2	0.5	1	ug/L
594-20-7	2,2-Dichloropropane	53		0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	50		0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	53		0.2	0.5	1	ug/L
67-66-3	Chloroform	51		0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	50		0.4	0.5	1	ug/L
563-58-6	1,1-Dichloropropene	49		0.39	0.5	1	ug/L
71-43-2	Benzene	49		0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	49		0.48	0.5	1	ug/L
79-01-6	Trichloroethene	48		0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	50		0.46	0.5	1	ug/L
74-95-3	Dibromomethane	49		0.44	0.5	1	ug/L
75-27-4	Bromodichloromethane	50		0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	240		2.1	2.5	5	ug/L
108-88-3	Toluene	50		0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	51		0.29	0.5	1	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/13/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-1-60MSD	SDG No.:	D5165
Lab Sample ID:	D5165-17MSD	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003282.D	1		12/14/12	VN121412

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	51		0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	49		0.38	0.5	1	ug/L
142-28-9	1,3-Dichloropropane	49		0.35	0.5	1	ug/L
591-78-6	2-Hexanone	240		1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	50		0.2	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	48		0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	55		0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	50		0.49	0.5	1	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	50		0.43	0.5	1	ug/L
100-41-4	Ethyl Benzene	50		0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	100		0.95	1	2	ug/L
95-47-6	o-Xylene	50		0.43	0.5	1	ug/L
100-42-5	Styrene	51		0.36	0.5	1	ug/L
75-25-2	Bromoform	50		0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	50		0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	49		0.31	0.5	1	ug/L
96-18-4	1,2,3-Trichloropropane	48		0.5	0.5	1	ug/L
108-86-1	Bromobenzene	49		0.2	0.5	1	ug/L
103-65-1	n-propylbenzene	50		0.45	0.5	1	ug/L
95-49-8	2-Chlorotoluene	51		0.43	0.5	1	ug/L
108-67-8	1,3,5-Trimethylbenzene	51		0.46	0.5	1	ug/L
106-43-4	4-Chlorotoluene	50		0.42	0.5	1	ug/L
98-06-6	tert-Butylbenzene	51		0.44	0.5	1	ug/L
95-63-6	1,2,4-Trimethylbenzene	51		0.38	0.5	1	ug/L
135-98-8	sec-Butylbenzene	51		0.46	0.5	1	ug/L
99-87-6	p-Isopropyltoluene	51		0.43	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	49		0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	49		0.32	0.5	1	ug/L
104-51-8	n-Butylbenzene	51		0.41	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	49		0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	46		0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	49		0.2	0.5	1	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/13/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-1-60MSD	SDG No.:	D5165
Lab Sample ID:	D5165-17MSD	Matrix:	WATER
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN003282.D	1		12/14/12	VN121412

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
87-68-3	Hexachlorobutadiene	46		0.2	0.5	1	ug/L
91-20-3	Naphthalene	50		0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	48		0.2	0.5	1	ug/L
74-88-4	Methyl Iodide	51		0.2	0.5	1	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	51.1		61 - 141		102%	SPK: 50
1868-53-7	Dibromofluoromethane	51.2		69 - 133		102%	SPK: 50
2037-26-5	Toluene-d8	50.7		65 - 126		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.8		58 - 135		100%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	780632	7.87				
540-36-3	1,4-Difluorobenzene	1259780	8.79				
3114-55-4	Chlorobenzene-d5	1166150	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	605757	13.57				

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

CALIBRATION SUMMURY

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.: D5165 SAS No.: D5165 SDG No.: D5165

Instrument ID: MSVOA_N Calibration Date(s): 12/14/2012 12/14/2012

Heated Purge: (Y/N) N Calibration Time(s): 12:28 15:03

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF005 = VN003271.D RRF001 = VN003270.D RRF020 = VN003272.D
RRF050 = VN003273.D RRF100 = VN003274.D RRF200 = VN003275.D

COMPOUND	RRF005	RRF001	RRF020	RRF050	RRF100	RRF200	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.456	0.474	0.460	0.445	0.460	0.457	0.459	2
Chloromethane	0.500	0.553	0.489	0.482	0.524	0.566	0.519	6.7
Vinyl Chloride	0.445	0.533	0.465	0.466	0.487	0.506	0.484	6.6
Bromomethane	0.214	0.235	0.241	0.241	0.255	0.263	0.242	7
Chloroethane	0.307	0.325	0.315	0.298	0.312	0.313	0.312	2.9
Trichlorofluoromethane	0.704	0.805	0.685	0.659	0.659	0.659	0.695	8.2
1,1-Dichloroethene	0.389	0.372	0.386	0.371	0.388	0.388	0.383	2.2
Acetone	0.158	0.186	0.169	0.157	0.157	0.159	0.165	7.1
Carbon Disulfide	1.174	1.328	1.206	1.188	1.239	1.259	1.232	4.6
Methyl tert-butyl Ether	1.288	1.422	1.322	1.298	1.358	1.376	1.344	3.8
Methylene Chloride	0.455	0.497	0.466	0.445	0.461	0.463	0.465	3.8
trans-1,2-Dichloroethene	0.441	0.519	0.447	0.427	0.439	0.440	0.452	7.4
Vinyl Acetate	0.358	0.378	0.405	0.416	0.439	0.462	0.410	9.4
1,1-Dichloroethane	0.821	0.882	0.852	0.812	0.842	0.846	0.842	2.9
2-Butanone	0.231	0.252	0.245	0.238	0.246	0.252	0.244	3.4
Carbon Tetrachloride	0.391	0.390	0.402	0.388	0.404	0.402	0.396	1.9
2,2-Dichloropropane	0.668	0.701	0.683	0.645	0.667	0.675	0.673	2.8
cis-1,2-Dichloroethene	0.492	0.619	0.518	0.483	0.508	0.509	0.522	9.4
Bromochloromethane	0.411	0.474	0.486	0.462	0.458	0.448	0.457	5.7
Chloroform	0.807	0.866	0.822	0.807	0.833	0.838	0.829	2.7
1,1,1-Trichloroethane	0.713	0.768	0.721	0.700	0.728	0.727	0.726	3.1
1,1-Dichloropropene	0.421	0.457	0.412	0.399	0.413	0.413	0.419	4.8
Benzene	1.218	1.379	1.211	1.171	1.208	1.206	1.232	6
1,2-Dichloroethane	0.408	0.446	0.413	0.402	0.410	0.405	0.414	3.9
Trichloroethene	0.338	0.371	0.319	0.306	0.313	0.313	0.327	7.4
1,2-Dichloropropane	0.343	0.374	0.336	0.327	0.342	0.344	0.344	4.6
Dibromomethane	0.207	0.199	0.209	0.195	0.205	0.204	0.203	2.5
Bromodichloromethane	0.386	0.380	0.389	0.386	0.405	0.408	0.392	3
4-Methyl-2-Pentanone	0.286	0.290	0.309	0.317	0.333	0.341	0.313	7.1
Toluene	0.739	0.776	0.763	0.738	0.773	0.780	0.762	2.4
t-1,3-Dichloropropene	0.442	0.447	0.462	0.451	0.484	0.498	0.464	4.8
cis-1,3-Dichloropropene	0.472	0.483	0.494	0.489	0.518	0.526	0.497	4.2
1,1,2-Trichloroethane	0.286	0.308	0.295	0.285	0.296	0.299	0.295	3

* Compounds with required minimum RRF and maximum %RSD values.
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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: D5165 SAS No.: D5165 SDG No.: D5165

Instrument ID: MSVOA_N Calibration Date(s): 12/14/2012 12/14/2012

Heated Purge: (Y/N) N Calibration Time(s): 12:28 15:03

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF005 = VN003271.D RRF001 = VN003270.D RRF020 = VN003272.D
RRF050 = VN003273.D RRF100 = VN003274.D RRF200 = VN003275.D

COMPOUND	RRF005	RRF001	RRF020	RRF050	RRF100	RRF200	$\overline{RRF}$	% RSD
1,3-Dichloropropane	0.494	0.539	0.514	0.492	0.519	0.520	0.513	3.4
2-Hexanone	0.198	0.192	0.224	0.223	0.237	0.240	0.219	9.2
Dibromochloromethane	0.303	0.308	0.314	0.323	0.340	0.345	0.322	5.3
1,2-Dibromoethane	0.270	0.329	0.298	0.292	0.306	0.309	0.301	6.4
Tetrachloroethene	0.360	0.462	0.329	0.300	0.293	0.287	0.339	19.6
Chlorobenzene	0.937	1.000	0.927	0.884	0.922	0.915	0.931	4.1
1,1,1,2-Tetrachloroethane	0.312	0.340	0.322	0.311	0.322	0.322	0.321	3.2
Ethyl Benzene	1.533	1.611	1.541	1.501	1.564	1.574	1.554	2.4
m/p-Xylenes	0.577	0.622	0.592	0.577	0.599	0.602	0.595	2.8
o-Xylene	0.562	0.606	0.581	0.582	0.596	0.601	0.588	2.7
Styrene	0.869	0.900	0.929	0.941	0.988	1.002	0.938	5.4
Bromoform	0.229	0.215	0.243	0.251	0.262	0.262	0.244	7.7
Isopropylbenzene	2.877	3.089	2.996	2.865	3.014	3.146	2.998	3.7
1,1,2,2-Tetrachloroethane	0.807	0.790	0.836	0.796	0.829	0.835	0.815	2.5
1,2,3-Trichloropropane	0.711	0.772	0.760	0.718	0.744	0.762	0.745	3.4
Bromobenzene	0.751	0.837	0.783	0.731	0.754	0.757	0.769	4.9
n-propylbenzene	3.314	3.585	3.487	3.338	3.526	3.694	3.491	4.2
2-Chlorotoluene	2.019	2.060	2.060	1.976	2.064	2.125	2.051	2.4
1,3,5-Trimethylbenzene	2.208	2.341	2.371	2.291	2.397	2.485	2.349	4
4-Chlorotoluene	2.058	2.136	2.035	1.969	2.061	2.131	2.065	3
tert-Butylbenzene	2.037	2.120	2.150	2.059	2.169	2.202	2.123	3
1,2,4-Trimethylbenzene	2.302	2.233	2.405	2.352	2.446	2.507	2.374	4.2
sec-Butylbenzene	2.918	2.847	3.012	2.901	3.054	3.154	2.981	3.8
p-Isopropyltoluene	2.381	2.256	2.484	2.415	2.568	2.608	2.452	5.3
1,3-Dichlorobenzene	1.485	1.525	1.431	1.374	1.410	1.417	1.440	3.8
1,4-Dichlorobenzene	1.496	1.615	1.440	1.360	1.419	1.419	1.458	6.1
n-Butylbenzene	2.153	2.192	2.228	2.157	2.288	2.356	2.229	3.6
1,2-Dichlorobenzene	1.418	1.458	1.408	1.335	1.370	1.336	1.387	3.6
1,2-Dibromo-3-Chloropropane	0.144	0.188	0.158	0.159	0.160	0.154	0.160	9.3
1,2,4-Trichlorobenzene	0.939	1.042	0.929	0.892	0.900	0.864	0.928	6.7
Hexachlorobutadiene	0.482	0.514	0.435	0.412	0.421	0.386	0.442	10.8
Naphthalene	2.317	2.422	2.538	2.453	2.486	2.427	2.440	3
1,2,3-Trichlorobenzene	0.908	0.940	0.927	0.871	0.872	0.840	0.893	4.3

* Compounds with required minimum RRF and maximum %RSD values.
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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: D5165 SAS No.: D5165 SDG No.: D5165

Instrument ID: MSVOA_N Calibration Date(s): 12/14/2012 12/14/2012

Heated Purge: (Y/N) N Calibration Time(s): 12:28 15:03

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF005 = VN003271.D RRF001 = VN003270.D RRF020 = VN003272.D
RRF050 = VN003273.D RRF100 = VN003274.D RRF200 = VN003275.D

COMPOUND	RRF005	RRF001	RRF020	RRF050	RRF100	RRF200	$\overline{RRF}$	% RSD
1,2-Dichloroethane-d4	0.549	0.625	0.594	0.605	0.596	0.599	0.595	4.2
Dibromofluoromethane	0.280	0.284	0.300	0.308	0.307	0.304	0.297	4
Toluene-d8	1.197	1.217	1.212	1.240	1.253	1.254	1.229	1.9
4-Bromofluorobenzene	0.429	0.476	0.432	0.445	0.457	0.458	0.449	4
Methyl Iodide	0.173	0.119	0.279	0.364	0.424	0.451	0.302	44.7

* Compounds with required minimum RRF and maximum %RSD values.
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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: D5165 SAS No.: D5165 SDG No.: D5165

Instrument ID: MSVOA_N Calibration Date/Time: 12/14/2012 17:39

Lab File ID: VN003278.D Init. Calib. Date(s): 12/14/2012 12/14/2012

Heated Purge: (Y/N) N Init. Calib. Time(s): 12:28 15:03

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.459	0.447		-2.61	
Chloromethane	0.519	0.522	0.1	0.58	
Vinyl Chloride	0.484	0.485		0.21	20
Bromomethane	0.242	0.241		-0.41	
Chloroethane	0.312	0.301		-3.53	
Trichlorofluoromethane	0.695	0.641		-7.77	
1,1-Dichloroethene	0.383	0.381		-0.52	20
Acetone	0.165	0.143		-13.33	
Carbon Disulfide	1.232	1.203		-2.35	
Methyl tert-butyl Ether	1.344	1.271		-5.43	
Methylene Chloride	0.465	0.445		-4.3	
trans-1,2-Dichloroethene	0.452	0.428		-5.31	
Vinyl Acetate	0.410	0.410		0	
1,1-Dichloroethane	0.842	0.810	0.1	-3.8	
2-Butanone	0.244	0.217		-11.07	
Carbon Tetrachloride	0.396	0.389		-1.77	
2,2-Dichloropropane	0.673	0.674		0.15	
cis-1,2-Dichloroethene	0.522	0.494		-5.36	
Bromochloromethane	0.457	0.462		1.09	
Chloroform	0.829	0.810		-2.29	20
1,1,1-Trichloroethane	0.726	0.690		-4.96	
1,1-Dichloropropene	0.419	0.412		-1.67	
Benzene	1.232	1.194		-3.08	
1,2-Dichloroethane	0.414	0.399		-3.62	
Trichloroethene	0.327	0.316		-3.36	
1,2-Dichloropropane	0.344	0.336		-2.33	20
Dibromomethane	0.203	0.198		-2.46	
Bromodichloromethane	0.392	0.389		-0.77	
4-Methyl-2-Pentanone	0.313	0.293		-6.39	
Toluene	0.762	0.760		-0.26	20
t-1,3-Dichloropropene	0.464	0.461		-0.65	
cis-1,3-Dichloropropene	0.497	0.509		2.41	
1,1,2-Trichloroethane	0.295	0.285		-3.39	
1,3-Dichloropropane	0.513	0.496		-3.31	
2-Hexanone	0.219	0.208		-5.02	
Dibromochloromethane	0.322	0.315		-2.17	
1,2-Dibromoethane	0.301	0.290		-3.65	
Tetrachloroethene	0.339	0.308		-9.14	
Chlorobenzene	0.931	0.916	0.3	-1.61	
1,1,1,2-Tetrachloroethane	0.321	0.315		-1.87	
Ethyl Benzene	1.554	1.562		0.51	20
m/p-Xylenes	0.595	0.597		0.34	

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: D5165 SAS No.: D5165 SDG No.: D5165

Instrument ID: MSVOA_N Calibration Date/Time: 12/14/2012 17:39

Lab File ID: VN003278.D Init. Calib. Date(s): 12/14/2012 12/14/2012

Heated Purge: (Y/N) N Init. Calib. Time(s): 12:28 15:03

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
o-Xylene	0.588	0.587		-0.17	
Styrene	0.938	0.963		2.67	
Bromoform	0.244	0.242	0.1	-0.82	
Isopropylbenzene	2.998	2.996		-0.07	
1,1,2,2-Tetrachloroethane	0.815	0.785	0.3	-3.68	
1,2,3-Trichloropropane	0.745	0.682		-8.46	
Bromobenzene	0.769	0.745		-3.12	
n-propylbenzene	3.491	3.545		1.55	
2-Chlorotoluene	2.051	2.069		0.88	
1,3,5-Trimethylbenzene	2.349	2.389		1.7	
4-Chlorotoluene	2.065	2.074		0.44	
tert-Butylbenzene	2.123	2.157		1.6	
1,2,4-Trimethylbenzene	2.374	2.412		1.6	
sec-Butylbenzene	2.981	3.077		3.22	
p-Isopropyltoluene	2.452	2.548		3.92	
1,3-Dichlorobenzene	1.440	1.431		-0.63	
1,4-Dichlorobenzene	1.458	1.433		-1.71	
n-Butylbenzene	2.229	2.366		6.15	
1,2-Dichlorobenzene	1.387	1.370		-1.23	
1,2-Dibromo-3-Chloropropane	0.160	0.143		-10.63	
1,2,4-Trichlorobenzene	0.928	0.921		-0.75	
Hexachlorobutadiene	0.442	0.440		-0.45	
Naphthalene	2.440	2.321		-4.88	
1,2,3-Trichlorobenzene	0.893	0.872		-2.35	
1,2-Dichloroethane-d4	0.595	0.582		-2.18	
Dibromofluoromethane	0.297	0.305		2.69	
Toluene-d8	1.229	1.235		0.49	
4-Bromofluorobenzene	0.449	0.450		0.22	
Methyl Iodide	0.302	0.363		20.2	

All other compounds must meet a minimum RRF of 0.010.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: D5165 SAS No.: D5165 SDG No.: D5165

Instrument ID: MSVOA_N Calibration Date/Time: 12/15/2012 07:18

Lab File ID: VN003302.D Init. Calib. Date(s): 12/14/2012 12/14/2012

Heated Purge: (Y/N) N Init. Calib. Time(s): 12:28 15:03

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.459	0.470		2.4	
Chloromethane	0.519	0.576	0.1	10.98	
Vinyl Chloride	0.484	0.570		17.77	20
Bromomethane	0.242	0.253		4.55	
Chloroethane	0.312	0.345		10.58	
Trichlorofluoromethane	0.695	0.690		-0.72	
1,1-Dichloroethene	0.383	0.414		8.09	20
Acetone	0.165	0.162		-1.82	
Carbon Disulfide	1.232	1.286		4.38	
Methyl tert-butyl Ether	1.344	1.492		11.01	
Methylene Chloride	0.465	0.495		6.45	
trans-1,2-Dichloroethene	0.452	0.465		2.88	
Vinyl Acetate	0.410	0.484		18.05	
1,1-Dichloroethane	0.842	0.928	0.1	10.21	
2-Butanone	0.244	0.275		12.7	
Carbon Tetrachloride	0.396	0.384		-3.03	
2,2-Dichloropropane	0.673	0.653		-2.97	
cis-1,2-Dichloroethene	0.522	0.546		4.6	
Bromochloromethane	0.457	0.506		10.72	
Chloroform	0.829	0.888		7.12	20
1,1,1-Trichloroethane	0.726	0.752		3.58	
1,1-Dichloropropene	0.419	0.409		-2.39	
Benzene	1.232	1.217		-1.22	
1,2-Dichloroethane	0.414	0.407		-1.69	
Trichloroethene	0.327	0.308		-5.81	
1,2-Dichloropropane	0.344	0.351		2.03	20
Dibromomethane	0.203	0.207		1.97	
Bromodichloromethane	0.392	0.400		2.04	
4-Methyl-2-Pentanone	0.313	0.353		12.78	
Toluene	0.762	0.765		0.39	20
t-1,3-Dichloropropene	0.464	0.469		1.08	
cis-1,3-Dichloropropene	0.497	0.508		2.21	
1,1,2-Trichloroethane	0.295	0.295		0	
1,3-Dichloropropane	0.513	0.526		2.53	
2-Hexanone	0.219	0.246		12.33	
Dibromochloromethane	0.322	0.322		0	
1,2-Dibromoethane	0.301	0.302		0.33	
Tetrachloroethene	0.339	0.299		-11.8	
Chlorobenzene	0.931	0.935	0.3	0.43	
1,1,1,2-Tetrachloroethane	0.321	0.326		1.56	
Ethyl Benzene	1.554	1.574		1.29	20
m/p-Xylenes	0.595	0.601		1.01	

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: D5165 SAS No.: D5165 SDG No.: D5165

Instrument ID: MSVOA_N Calibration Date/Time: 12/15/2012 07:18

Lab File ID: VN003302.D Init. Calib. Date(s): 12/14/2012 12/14/2012

Heated Purge: (Y/N) N Init. Calib. Time(s): 12:28 15:03

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
o-Xylene	0.588	0.602		2.38	
Styrene	0.938	0.981		4.58	
Bromoform	0.244	0.254	0.1	4.1	
Isopropylbenzene	2.998	3.068		2.33	
1,1,2,2-Tetrachloroethane	0.815	0.892	0.3	9.45	
1,2,3-Trichloropropane	0.745	0.805		8.05	
Bromobenzene	0.769	0.760		-1.17	
n-propylbenzene	3.491	3.551		1.72	
2-Chlorotoluene	2.051	2.103		2.54	
1,3,5-Trimethylbenzene	2.349	2.426		3.28	
4-Chlorotoluene	2.065	2.109		2.13	
tert-Butylbenzene	2.123	2.181		2.73	
1,2,4-Trimethylbenzene	2.374	2.500		5.31	
sec-Butylbenzene	2.981	3.071		3.02	
p-Isopropyltoluene	2.452	2.517		2.65	
1,3-Dichlorobenzene	1.440	1.410		-2.08	
1,4-Dichlorobenzene	1.458	1.423		-2.4	
n-Butylbenzene	2.229	2.271		1.88	
1,2-Dichlorobenzene	1.387	1.393		0.43	
1,2-Dibromo-3-Chloropropane	0.160	0.172		7.5	
1,2,4-Trichlorobenzene	0.928	0.926		-0.22	
Hexachlorobutadiene	0.442	0.412		-6.79	
Naphthalene	2.440	2.645		8.4	
1,2,3-Trichlorobenzene	0.893	0.903		1.12	
1,2-Dichloroethane-d4	0.595	0.634		6.55	
Dibromofluoromethane	0.297	0.302		1.68	
Toluene-d8	1.229	1.238		0.73	
4-Bromofluorobenzene	0.449	0.434		-3.34	
Methyl Iodide	0.302	0.330		9.27	

All other compounds must meet a minimum RRF of 0.010.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: D5165 SAS No.: D5165 SDG No.: D5165

Instrument ID: MSVOA_N Calibration Date/Time: 12/17/2012 11:29

Lab File ID: VN003348.D Init. Calib. Date(s): 12/14/2012 12/14/2012

Heated Purge: (Y/N) N Init. Calib. Time(s): 12:28 15:03

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.459	0.452		-1.53	
Chloromethane	0.519	0.500	0.1	-3.66	
Vinyl Chloride	0.484	0.470		-2.89	20
Bromomethane	0.242	0.227		-6.2	
Chloroethane	0.312	0.304		-2.56	
Trichlorofluoromethane	0.695	0.647		-6.91	
1,1-Dichloroethene	0.383	0.372		-2.87	20
Acetone	0.165	0.166		0.61	
Carbon Disulfide	1.232	1.202		-2.44	
Methyl tert-butyl Ether	1.344	1.242		-7.59	
Methylene Chloride	0.465	0.441		-5.16	
trans-1,2-Dichloroethene	0.452	0.421		-6.86	
Vinyl Acetate	0.410	0.385		-6.1	
1,1-Dichloroethane	0.842	0.817	0.1	-2.97	
2-Butanone	0.244	0.236		-3.28	
Carbon Tetrachloride	0.396	0.386		-2.53	
2,2-Dichloropropane	0.673	0.652		-3.12	
cis-1,2-Dichloroethene	0.522	0.487		-6.7	
Bromochloromethane	0.457	0.475		3.94	
Chloroform	0.829	0.791		-4.58	20
1,1,1-Trichloroethane	0.726	0.677		-6.75	
1,1-Dichloropropene	0.419	0.409		-2.39	
Benzene	1.232	1.190		-3.41	
1,2-Dichloroethane	0.414	0.389		-6.04	
Trichloroethene	0.327	0.306		-6.42	
1,2-Dichloropropane	0.344	0.337		-2.03	20
Dibromomethane	0.203	0.192		-5.42	
Bromodichloromethane	0.392	0.397		1.28	
4-Methyl-2-Pentanone	0.313	0.302		-3.51	
Toluene	0.762	0.744		-2.36	20
t-1,3-Dichloropropene	0.464	0.453		-2.37	
cis-1,3-Dichloropropene	0.497	0.499		0.4	
1,1,2-Trichloroethane	0.295	0.278		-5.76	
1,3-Dichloropropane	0.513	0.493		-3.9	
2-Hexanone	0.219	0.218		-0.46	
Dibromochloromethane	0.322	0.316		-1.86	
1,2-Dibromoethane	0.301	0.282		-6.31	
Tetrachloroethene	0.339	0.300		-11.5	
Chlorobenzene	0.931	0.895	0.3	-3.87	
1,1,1,2-Tetrachloroethane	0.321	0.314		-2.18	
Ethyl Benzene	1.554	1.543		-0.71	20
m/p-Xylenes	0.595	0.583		-2.02	

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: D5165 SAS No.: D5165 SDG No.: D5165

Instrument ID: MSVOA_N Calibration Date/Time: 12/17/2012 11:29

Lab File ID: VN003348.D Init. Calib. Date(s): 12/14/2012 12/14/2012

Heated Purge: (Y/N) N Init. Calib. Time(s): 12:28 15:03

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
o-Xylene	0.588	0.578		-1.7	
Styrene	0.938	0.951		1.39	
Bromoform	0.244	0.253	0.1	3.69	
Isopropylbenzene	2.998	2.981		-0.57	
1,1,2,2-Tetrachloroethane	0.815	0.793	0.3	-2.7	
1,2,3-Trichloropropane	0.745	0.701		-5.91	
Bromobenzene	0.769	0.736		-4.29	
n-propylbenzene	3.491	3.591		2.86	
2-Chlorotoluene	2.051	2.087		1.76	
1,3,5-Trimethylbenzene	2.349	2.391		1.79	
4-Chlorotoluene	2.065	2.115		2.42	
tert-Butylbenzene	2.123	2.106		-0.8	
1,2,4-Trimethylbenzene	2.374	2.452		3.29	
sec-Butylbenzene	2.981	3.106		4.19	
p-Isopropyltoluene	2.452	2.562		4.49	
1,3-Dichlorobenzene	1.440	1.421		-1.32	
1,4-Dichlorobenzene	1.458	1.432		-1.78	
n-Butylbenzene	2.229	2.408		8.03	
1,2-Dichlorobenzene	1.387	1.360		-1.95	
1,2-Dibromo-3-Chloropropane	0.160	0.142		-11.25	
1,2,4-Trichlorobenzene	0.928	0.939		1.19	
Hexachlorobutadiene	0.442	0.442		0	
Naphthalene	2.440	2.307		-5.45	
1,2,3-Trichlorobenzene	0.893	0.875		-2.02	
1,2-Dichloroethane-d4	0.595	0.563		-5.38	
Dibromofluoromethane	0.297	0.295		-0.67	
Toluene-d8	1.229	1.197		-2.6	
4-Bromofluorobenzene	0.449	0.444		-1.11	
Methyl Iodide	0.302	0.322		6.62	

All other compounds must meet a minimum RRF of 0.010.

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LAB CHRONICLE

OrderID:	D5165	**OrderDate:**	12/13/2012 6:14:15 PM
Client:	TRC Companies, Inc.	**Project:**	Morris Park & Richmond Hill Yards
Contact:	Dan Warren	**Location:**	M43

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
D5165-01	**MW-39S**	**Water**			**12/12/12**			**12/13/12**
			SVOCMS Group1	8270D		12/17/12	12/22/12	
D5165-02	**DUP-A**	**Water**			**12/12/12**			**12/13/12**
			SVOCMS Group1	8270D		12/17/12	12/22/12	
D5165-03	**MW-35S**	**Water**			**12/12/12**			**12/13/12**
			SVOCMS Group1	8270D		12/17/12	12/23/12	
D5165-04	**MW-GF-6**	**Water**			**12/12/12**			**12/13/12**
			SVOCMS Group1	8270D		12/17/12	12/22/12	
D5165-05	**MW-GF-9**	**Water**			**12/12/12**			**12/13/12**
			SVOCMS Group1	8270D		12/17/12	12/23/12	
D5165-06	**MW-34S**	**Water**			**12/12/12**			**12/13/12**
			SVOCMS Group1	8270D		12/17/12	12/22/12	
D5165-07	**MW-GF-7**	**Water**			**12/12/12**			**12/13/12**
			SVOCMS Group1	8270D		12/17/12	12/23/12	
D5165-08	**MW-36S**	**Water**			**12/12/12**			**12/13/12**
			SVOCMS Group1	8270D		12/17/12	12/22/12	
D5165-09	**MW-GF-18**	**Water**			**12/12/12**			**12/13/12**
			SVOCMS Group1	8270D		12/17/12	12/22/12	
D5165-09DL	**MW-GF-18DL**	**Water**			**12/12/12**			**12/13/12**
			SVOCMS Group1	8270D		12/17/12	12/25/12	
D5165-12	**EQUIPMENTBLANK**	**Water**			**12/12/12**			**12/13/12**
			SVOCMS Group1	8270D		12/17/12	12/22/12	
D5165-13	**MW-GF-15**	**Water**			**12/13/12**			**12/13/12**
			SVOCMS Group1	8270D		12/17/12	12/22/12	

LAB CHRONICLE

D5165-14	**MW-GF-17**	**Water**			**12/13/12**			**12/13/12**
			SVOCMS Group1	8270D		12/17/12	12/23/12	
D5165-15	**MW-1-60**	**Water**			**12/13/12**			**12/13/12**
			SVOCMS Group1	8270D		12/17/12	12/22/12	
D5165-18	**DMW-5**	**Water**			**12/13/12**			**12/13/12**
			SVOCMS Group1	8270D		12/17/12	12/23/12	
D5165-19	**EQUIPMENTBLANK**	**Water**			**12/13/12**			**12/13/12**
			SVOCMS Group1	8270D		12/17/12	12/23/12	

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Hit Summary Sheet
SW-846

SDG No.: D5165

Client: TRC Companies, Inc.

Sample ID	Client ID		Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : MW-35S									
D5165-03	MW-35S	WATER	Acenaphthene	4.400	J	0.22	5.2	10.4	ug/L
D5165-03	MW-35S	WATER	Fluorene	4.700	J	0.32	5.2	10.4	ug/L
			Total Svoc :		**9.10**				
			Total Concentration:		**9.10**				
Client ID : MW-36S									
D5165-08	MW-36S	WATER	2-Methylnaphthalene	31.000		0.32	5.05	10.1	ug/L
D5165-08	MW-36S	WATER	Acenaphthene	7.200	J	0.21	5.05	10.1	ug/L
D5165-08	MW-36S	WATER	Dibenzofuran	6.600	J	0.24	5.05	10.1	ug/L
D5165-08	MW-36S	WATER	Fluorene	10.000	J	0.31	5.05	10.1	ug/L
D5165-08	MW-36S	WATER	Phenanthrene	9.900	J	0.26	5.05	10.1	ug/L
			Total Svoc :		**64.70**				
			Total Concentration:		**64.70**				
Client ID : MW-GF-15									
D5165-13	MW-GF-15	WATER	2-Methylnaphthalene	5.800	J	0.33	5.1	10.2	ug/L
			Total Svoc :		**5.80**				
			Total Concentration:		**5.80**				
Client ID : MW-GF-18									
D5165-09	MW-GF-18	WATER	2-Methylnaphthalene	89.000	E	0.33	5.1	10.2	ug/L
D5165-09	MW-GF-18	WATER	Acenaphthene	8.300	J	0.21	5.1	10.2	ug/L
D5165-09	MW-GF-18	WATER	Dibenzofuran	7.500	J	0.24	5.1	10.2	ug/L
D5165-09	MW-GF-18	WATER	Fluorene	11.300		0.32	5.1	10.2	ug/L
D5165-09	MW-GF-18	WATER	Phenanthrene	13.500		0.27	5.1	10.2	ug/L
D5165-09	MW-GF-18	WATER	Carbazole	6.600	J	0.22	5.1	10.2	ug/L
			Total Svoc :		**136.20**				
			Total Concentration:		**136.20**				
Client ID : MW-GF-18DL									
D5165-09DL	MW-GF-18DL	WATER	2-Methylnaphthalene	86.300	D	0.65	10.2	20.4	ug/L
D5165-09DL	MW-GF-18DL	WATER	Acenaphthene	8.200	JD	0.43	10.2	20.4	ug/L
D5165-09DL	MW-GF-18DL	WATER	Fluorene	10.700	JD	0.63	10.2	20.4	ug/L
D5165-09DL	MW-GF-18DL	WATER	Phenanthrene	13.200	JD	0.53	10.2	20.4	ug/L
			Total Svoc :		**118.40**				
			Total Concentration:		**118.40**				
Client ID : MW-GF-7									
D5165-07	MW-GF-7	WATER	Acenaphthene	6.400	J	0.22	5.15	10.3	ug/L
D5165-07	MW-GF-7	WATER	Dibenzofuran	4.300	J	0.25	5.15	10.3	ug/L
D5165-07	MW-GF-7	WATER	Fluorene	7.900	J	0.32	5.15	10.3	ug/L
D5165-07	MW-GF-7	WATER	Phenanthrene	6.300	J	0.27	5.15	10.3	ug/L

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Hit Summary Sheet
SW-846

SDG No.: D5165

Client: TRC Companies, Inc.

Sample ID	Client ID		Parameter	Concentration	C	MDL	LOD	RDL	Units
D5165-07	MW-GF-7	WATER	Carbazole	28.400		0.23	5.15	10.3	ug/L
			Total Svoc :		**53.30**				
			Total Concentration:		**53.30**				

SAMPLE DATA

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/12/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-39S	SDG No.:	D5165
Lab Sample ID:	D5165-01	Matrix:	Water
Analytical Method:	SW8270D	% Moisture:	100
Sample Wt/Vol:	910 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
BE080787.D	1	12/17/12	12/22/12	PB67493

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
108-95-2	Phenol	5.5	U	0.23	5.5	11	ug/L
111-44-4	bis(2-Chloroethyl)ether	5.5	U	0.6	5.5	11	ug/L
95-57-8	2-Chlorophenol	5.5	U	0.59	5.5	11	ug/L
95-50-1	1,2-Dichlorobenzene	5.5	U	0.29	5.5	11	ug/L
541-73-1	1,3-Dichlorobenzene	5.5	U	0.14	5.5	11	ug/L
106-46-7	1,4-Dichlorobenzene	5.5	U	0.22	5.5	11	ug/L
95-48-7	2-Methylphenol	5.5	UQ	0.26	5.5	11	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	5.5	U	0.19	5.5	11	ug/L
65794-96-9	3+4-Methylphenols	5.5	UQ	0.42	5.5	11	ug/L
621-64-7	n-Nitroso-di-n-propylamine	5.5	U	0.22	5.5	11	ug/L
67-72-1	Hexachloroethane	5.5	U	0.27	5.5	11	ug/L
98-95-3	Nitrobenzene	5.5	U	0.75	5.5	11	ug/L
78-59-1	Isophorone	5.5	U	0.33	5.5	11	ug/L
88-75-5	2-Nitrophenol	5.5	U	0.57	5.5	11	ug/L
105-67-9	2,4-Dimethylphenol	5.5	U	0.78	5.5	11	ug/L
111-91-1	bis(2-Chloroethoxy)methane	5.5	U	0.6	5.5	11	ug/L
120-83-2	2,4-Dichlorophenol	5.5	U	0.73	5.5	11	ug/L
120-82-1	1,2,4-Trichlorobenzene	5.5	U	0.16	5.5	11	ug/L
91-20-3	Naphthalene	5.5	U	0.13	5.5	11	ug/L
106-47-8	4-Chloroaniline	5.5	U	3.1	5.5	11	ug/L
87-68-3	Hexachlorobutadiene	5.5	U	0.27	5.5	11	ug/L
59-50-7	4-Chloro-3-methylphenol	5.5	U	0.44	5.5	11	ug/L
91-57-6	2-Methylnaphthalene	5.5	U	0.35	5.5	11	ug/L
77-47-4	Hexachlorocyclopentadiene	5.5	U	0.26	5.5	11	ug/L
88-06-2	2,4,6-Trichlorophenol	5.5	U	0.62	5.5	11	ug/L
95-95-4	2,4,5-Trichlorophenol	5.5	U	0.44	5.5	11	ug/L
91-58-7	2-Chloronaphthalene	5.5	U	0.18	5.5	11	ug/L
88-74-4	2-Nitroaniline	5.5	U	0.54	5.5	11	ug/L
131-11-3	Dimethylphthalate	5.5	U	0.24	5.5	11	ug/L
208-96-8	Acenaphthylene	5.5	U	0.77	5.5	11	ug/L
606-20-2	2,6-Dinitrotoluene	5.5	U	0.35	5.5	11	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/12/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-39S	SDG No.:	D5165
Lab Sample ID:	D5165-01	Matrix:	Water
Analytical Method:	SW8270D	% Moisture:	100
Sample Wt/Vol:	910 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
BE080787.D	1	12/17/12	12/22/12	PB67493

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	5.5	U	1.2	5.5	11	ug/L
83-32-9	Acenaphthene	5.5	U	0.23	5.5	11	ug/L
51-28-5	2,4-Dinitrophenol	5.5	U	2.3	5.5	11	ug/L
100-02-7	4-Nitrophenol	5.5	U	2.2	5.5	11	ug/L
132-64-9	Dibenzofuran	5.5	U	0.26	5.5	11	ug/L
121-14-2	2,4-Dinitrotoluene	5.5	U	1.1	5.5	11	ug/L
84-66-2	Diethylphthalate	5.5	U	0.42	5.5	11	ug/L
7005-72-3	4-Chlorophenyl-phenylether	5.5	U	0.23	5.5	11	ug/L
86-73-7	Fluorene	5.5	U	0.34	5.5	11	ug/L
100-01-6	4-Nitroaniline	5.5	U	1.5	5.5	11	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	5.5	U	0.81	5.5	11	ug/L
86-30-6	n-Nitrosodiphenylamine	5.5	U	0.66	5.5	11	ug/L
101-55-3	4-Bromophenyl-phenylether	5.5	U	0.25	5.5	11	ug/L
118-74-1	Hexachlorobenzene	5.5	U	0.2	5.5	11	ug/L
87-86-5	Pentachlorophenol	5.5	U	1.9	5.5	11	ug/L
85-01-8	Phenanthrene	5.5	U	0.29	5.5	11	ug/L
120-12-7	Anthracene	5.5	U	0.18	5.5	11	ug/L
86-74-8	Carbazole	5.5	U	0.24	5.5	11	ug/L
84-74-2	Di-n-butylphthalate	5.5	U	2.2	5.5	11	ug/L
206-44-0	Fluoranthene	5.5	U	0.44	5.5	11	ug/L
129-00-0	Pyrene	5.5	U	0.22	5.5	11	ug/L
85-68-7	Butylbenzylphthalate	5.5	U	0.21	5.5	11	ug/L
91-94-1	3,3-Dichlorobenzidine	5.5	U	2.2	5.5	11	ug/L
56-55-3	Benzo(a)anthracene	5.5	U	0.18	5.5	11	ug/L
218-01-9	Chrysene	5.5	U	0.2	5.5	11	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	5.5	U	0.18	5.5	11	ug/L
117-84-0	Di-n-octyl phthalate	5.5	U	0.56	5.5	11	ug/L
205-99-2	Benzo(b)fluoranthene	5.5	U	0.32	5.5	11	ug/L
207-08-9	Benzo(k)fluoranthene	5.5	U	0.2	5.5	11	ug/L
50-32-8	Benzo(a)pyrene	5.5	U	0.15	5.5	11	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.5	U	0.16	5.5	11	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.5	U	0.46	5.5	11	ug/L
191-24-2	Benzo(g,h,i)perylene	5.5	U	0.32	5.5	11	ug/L

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Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/12/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-39S	SDG No.:	D5165
Lab Sample ID:	D5165-01	Matrix:	Water
Analytical Method:	SW8270D	% Moisture:	100
Sample Wt/Vol:	910 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
BE080787.D	1	12/17/12	12/22/12	PB67493

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
SURROGATES							
367-12-4	2-Fluorophenol	50.4		10 - 130		34%	SPK: 150
13127-88-3	Phenol-d6	27.3		10 - 130		18%	SPK: 150
4165-60-0	Nitrobenzene-d5	93.5		36 - 131		93%	SPK: 100
321-60-8	2-Fluorobiphenyl	96.6		39 - 131		97%	SPK: 100
118-79-6	2,4,6-Tribromophenol	120		25 - 155		80%	SPK: 150
1718-51-0	Terphenyl-d14	85.3		23 - 130		85%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	46245	7.54				
1146-65-2	Naphthalene-d8	188498	9.72				
15067-26-2	Acenaphthene-d10	118026	12.65				
1517-22-2	Phenanthrene-d10	217088	15.09				
1719-03-5	Chrysene-d12	218107	19.4				
1520-96-3	Perylene-d12	208449	22.07				

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/12/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	DUP-A	SDG No.:	D5165
Lab Sample ID:	D5165-02	Matrix:	Water
Analytical Method:	SW8270D	% Moisture:	100
Sample Wt/Vol:	970 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
BE080788.D	1	12/17/12	12/22/12	PB67493

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
108-95-2	Phenol	5.15	U	0.22	5.15	10.3	ug/L
111-44-4	bis(2-Chloroethyl)ether	5.15	U	0.57	5.15	10.3	ug/L
95-57-8	2-Chlorophenol	5.15	U	0.56	5.15	10.3	ug/L
95-50-1	1,2-Dichlorobenzene	5.15	U	0.27	5.15	10.3	ug/L
541-73-1	1,3-Dichlorobenzene	5.15	U	0.13	5.15	10.3	ug/L
106-46-7	1,4-Dichlorobenzene	5.15	U	0.21	5.15	10.3	ug/L
95-48-7	2-Methylphenol	5.15	UQ	0.25	5.15	10.3	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	5.15	U	0.18	5.15	10.3	ug/L
65794-96-9	3+4-Methylphenols	5.15	UQ	0.39	5.15	10.3	ug/L
621-64-7	n-Nitroso-di-n-propylamine	5.15	U	0.21	5.15	10.3	ug/L
67-72-1	Hexachloroethane	5.15	U	0.26	5.15	10.3	ug/L
98-95-3	Nitrobenzene	5.15	U	0.7	5.15	10.3	ug/L
78-59-1	Isophorone	5.15	U	0.31	5.15	10.3	ug/L
88-75-5	2-Nitrophenol	5.15	U	0.54	5.15	10.3	ug/L
105-67-9	2,4-Dimethylphenol	5.15	U	0.73	5.15	10.3	ug/L
111-91-1	bis(2-Chloroethoxy)methane	5.15	U	0.57	5.15	10.3	ug/L
120-83-2	2,4-Dichlorophenol	5.15	U	0.68	5.15	10.3	ug/L
120-82-1	1,2,4-Trichlorobenzene	5.15	U	0.15	5.15	10.3	ug/L
91-20-3	Naphthalene	5.15	U	0.12	5.15	10.3	ug/L
106-47-8	4-Chloroaniline	5.15	U	2.9	5.15	10.3	ug/L
87-68-3	Hexachlorobutadiene	5.15	U	0.26	5.15	10.3	ug/L
59-50-7	4-Chloro-3-methylphenol	5.15	U	0.41	5.15	10.3	ug/L
91-57-6	2-Methylnaphthalene	5.15	U	0.33	5.15	10.3	ug/L
77-47-4	Hexachlorocyclopentadiene	5.15	U	0.25	5.15	10.3	ug/L
88-06-2	2,4,6-Trichlorophenol	5.15	U	0.58	5.15	10.3	ug/L
95-95-4	2,4,5-Trichlorophenol	5.15	U	0.41	5.15	10.3	ug/L
91-58-7	2-Chloronaphthalene	5.15	U	0.16	5.15	10.3	ug/L
88-74-4	2-Nitroaniline	5.15	U	0.51	5.15	10.3	ug/L
131-11-3	Dimethylphthalate	5.15	U	0.23	5.15	10.3	ug/L
208-96-8	Acenaphthylene	5.15	U	0.72	5.15	10.3	ug/L
606-20-2	2,6-Dinitrotoluene	5.15	U	0.33	5.15	10.3	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/12/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	DUP-A	SDG No.:	D5165
Lab Sample ID:	D5165-02	Matrix:	Water
Analytical Method:	SW8270D	% Moisture:	100
Sample Wt/Vol:	970 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
BE080788.D	1	12/17/12	12/22/12	PB67493

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	5.15	U	1.1	5.15	10.3	ug/L
83-32-9	Acenaphthene	5.15	U	0.22	5.15	10.3	ug/L
51-28-5	2,4-Dinitrophenol	5.15	U	2.2	5.15	10.3	ug/L
100-02-7	4-Nitrophenol	5.15	U	2.1	5.15	10.3	ug/L
132-64-9	Dibenzofuran	5.15	U	0.25	5.15	10.3	ug/L
121-14-2	2,4-Dinitrotoluene	5.15	U	1.1	5.15	10.3	ug/L
84-66-2	Diethylphthalate	5.15	U	0.39	5.15	10.3	ug/L
7005-72-3	4-Chlorophenyl-phenylether	5.15	U	0.22	5.15	10.3	ug/L
86-73-7	Fluorene	5.15	U	0.32	5.15	10.3	ug/L
100-01-6	4-Nitroaniline	5.15	U	1.4	5.15	10.3	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	5.15	U	0.76	5.15	10.3	ug/L
86-30-6	n-Nitrosodiphenylamine	5.15	U	0.62	5.15	10.3	ug/L
101-55-3	4-Bromophenyl-phenylether	5.15	U	0.24	5.15	10.3	ug/L
118-74-1	Hexachlorobenzene	5.15	U	0.19	5.15	10.3	ug/L
87-86-5	Pentachlorophenol	5.15	U	1.8	5.15	10.3	ug/L
85-01-8	Phenanthrene	5.15	U	0.27	5.15	10.3	ug/L
120-12-7	Anthracene	5.15	U	0.16	5.15	10.3	ug/L
86-74-8	Carbazole	5.15	U	0.23	5.15	10.3	ug/L
84-74-2	Di-n-butylphthalate	5.15	U	2.1	5.15	10.3	ug/L
206-44-0	Fluoranthene	5.15	U	0.41	5.15	10.3	ug/L
129-00-0	Pyrene	5.15	U	0.21	5.15	10.3	ug/L
85-68-7	Butylbenzylphthalate	5.15	U	0.2	5.15	10.3	ug/L
91-94-1	3,3-Dichlorobenzidine	5.15	U	2.1	5.15	10.3	ug/L
56-55-3	Benzo(a)anthracene	5.15	U	0.16	5.15	10.3	ug/L
218-01-9	Chrysene	5.15	U	0.19	5.15	10.3	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	5.15	U	0.16	5.15	10.3	ug/L
117-84-0	Di-n-octyl phthalate	5.15	U	0.53	5.15	10.3	ug/L
205-99-2	Benzo(b)fluoranthene	5.15	U	0.3	5.15	10.3	ug/L
207-08-9	Benzo(k)fluoranthene	5.15	U	0.19	5.15	10.3	ug/L
50-32-8	Benzo(a)pyrene	5.15	U	0.14	5.15	10.3	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.15	U	0.15	5.15	10.3	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.15	U	0.43	5.15	10.3	ug/L
191-24-2	Benzo(g,h,i)perylene	5.15	U	0.3	5.15	10.3	ug/L

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Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/12/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	DUP-A	SDG No.:	D5165
Lab Sample ID:	D5165-02	Matrix:	Water
Analytical Method:	SW8270D	% Moisture:	100
Sample Wt/Vol:	970 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
BE080788.D	1	12/17/12	12/22/12	PB67493

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
SURROGATES							
367-12-4	2-Fluorophenol	50		10 - 130		33%	SPK: 150
13127-88-3	Phenol-d6	29.6		10 - 130		20%	SPK: 150
4165-60-0	Nitrobenzene-d5	90.6		36 - 131		91%	SPK: 100
321-60-8	2-Fluorobiphenyl	97.2		39 - 131		97%	SPK: 100
118-79-6	2,4,6-Tribromophenol	120		25 - 155		82%	SPK: 150
1718-51-0	Terphenyl-d14	83		23 - 130		83%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	51423	7.54				
1146-65-2	Naphthalene-d8	206148	9.72				
15067-26-2	Acenaphthene-d10	126178	12.65				
1517-22-2	Phenanthrene-d10	229355	15.09				
1719-03-5	Chrysene-d12	242333	19.4				
1520-96-3	Perylene-d12	226688	22.08				

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Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/12/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-35S	SDG No.:	D5165
Lab Sample ID:	D5165-03	Matrix:	Water
Analytical Method:	SW8270D	% Moisture:	100
Sample Wt/Vol:	960 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
BF059871.D	1	12/17/12	12/23/12	PB67493

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
108-95-2	Phenol	5.2	U	0.22	5.2	10.4	ug/L
111-44-4	bis(2-Chloroethyl)ether	5.2	U	0.57	5.2	10.4	ug/L
95-57-8	2-Chlorophenol	5.2	U	0.56	5.2	10.4	ug/L
95-50-1	1,2-Dichlorobenzene	5.2	U	0.27	5.2	10.4	ug/L
541-73-1	1,3-Dichlorobenzene	5.2	U	0.14	5.2	10.4	ug/L
106-46-7	1,4-Dichlorobenzene	5.2	U	0.21	5.2	10.4	ug/L
95-48-7	2-Methylphenol	5.2	UQ	0.25	5.2	10.4	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	5.2	U	0.18	5.2	10.4	ug/L
65794-96-9	3+4-Methylphenols	5.2	UQ	0.4	5.2	10.4	ug/L
621-64-7	n-Nitroso-di-n-propylamine	5.2	U	0.21	5.2	10.4	ug/L
67-72-1	Hexachloroethane	5.2	U	0.26	5.2	10.4	ug/L
98-95-3	Nitrobenzene	5.2	U	0.71	5.2	10.4	ug/L
78-59-1	Isophorone	5.2	U	0.31	5.2	10.4	ug/L
88-75-5	2-Nitrophenol	5.2	U	0.54	5.2	10.4	ug/L
105-67-9	2,4-Dimethylphenol	5.2	U	0.74	5.2	10.4	ug/L
111-91-1	bis(2-Chloroethoxy)methane	5.2	U	0.57	5.2	10.4	ug/L
120-83-2	2,4-Dichlorophenol	5.2	U	0.69	5.2	10.4	ug/L
120-82-1	1,2,4-Trichlorobenzene	5.2	U	0.16	5.2	10.4	ug/L
91-20-3	Naphthalene	5.2	U	0.13	5.2	10.4	ug/L
106-47-8	4-Chloroaniline	5.2	U	3	5.2	10.4	ug/L
87-68-3	Hexachlorobutadiene	5.2	U	0.26	5.2	10.4	ug/L
59-50-7	4-Chloro-3-methylphenol	5.2	U	0.42	5.2	10.4	ug/L
91-57-6	2-Methylnaphthalene	5.2	U	0.33	5.2	10.4	ug/L
77-47-4	Hexachlorocyclopentadiene	5.2	U	0.25	5.2	10.4	ug/L
88-06-2	2,4,6-Trichlorophenol	5.2	U	0.58	5.2	10.4	ug/L
95-95-4	2,4,5-Trichlorophenol	5.2	U	0.42	5.2	10.4	ug/L
91-58-7	2-Chloronaphthalene	5.2	U	0.17	5.2	10.4	ug/L
88-74-4	2-Nitroaniline	5.2	U	0.51	5.2	10.4	ug/L
131-11-3	Dimethylphthalate	5.2	U	0.23	5.2	10.4	ug/L
208-96-8	Acenaphthylene	5.2	U	0.73	5.2	10.4	ug/L
606-20-2	2,6-Dinitrotoluene	5.2	U	0.33	5.2	10.4	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/12/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-35S	SDG No.:	D5165
Lab Sample ID:	D5165-03	Matrix:	Water
Analytical Method:	SW8270D	% Moisture:	100
Sample Wt/Vol:	960 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
BF059871.D	1	12/17/12	12/23/12	PB67493

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	5.2	U	1.1	5.2	10.4	ug/L
83-32-9	Acenaphthene	4.4	J	0.22	5.2	10.4	ug/L
51-28-5	2,4-Dinitrophenol	5.2	U	2.2	5.2	10.4	ug/L
100-02-7	4-Nitrophenol	5.2	U	2.1	5.2	10.4	ug/L
132-64-9	Dibenzofuran	5.2	U	0.25	5.2	10.4	ug/L
121-14-2	2,4-Dinitrotoluene	5.2	U	1.1	5.2	10.4	ug/L
84-66-2	Diethylphthalate	5.2	U	0.4	5.2	10.4	ug/L
7005-72-3	4-Chlorophenyl-phenylether	5.2	U	0.22	5.2	10.4	ug/L
86-73-7	Fluorene	4.7	J	0.32	5.2	10.4	ug/L
100-01-6	4-Nitroaniline	5.2	U	1.4	5.2	10.4	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	5.2	U	0.77	5.2	10.4	ug/L
86-30-6	n-Nitrosodiphenylamine	5.2	U	0.63	5.2	10.4	ug/L
101-55-3	4-Bromophenyl-phenylether	5.2	U	0.24	5.2	10.4	ug/L
118-74-1	Hexachlorobenzene	5.2	U	0.19	5.2	10.4	ug/L
87-86-5	Pentachlorophenol	5.2	U	1.8	5.2	10.4	ug/L
85-01-8	Phenanthrene	5.2	U	0.27	5.2	10.4	ug/L
120-12-7	Anthracene	5.2	U	0.17	5.2	10.4	ug/L
86-74-8	Carbazole	5.2	U	0.23	5.2	10.4	ug/L
84-74-2	Di-n-butylphthalate	5.2	U	2.1	5.2	10.4	ug/L
206-44-0	Fluoranthene	5.2	U	0.42	5.2	10.4	ug/L
129-00-0	Pyrene	5.2	U	0.21	5.2	10.4	ug/L
85-68-7	Butylbenzylphthalate	5.2	U	0.2	5.2	10.4	ug/L
91-94-1	3,3-Dichlorobenzidine	5.2	U	2.1	5.2	10.4	ug/L
56-55-3	Benzo(a)anthracene	5.2	U	0.17	5.2	10.4	ug/L
218-01-9	Chrysene	5.2	U	0.19	5.2	10.4	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	5.2	U	0.17	5.2	10.4	ug/L
117-84-0	Di-n-octyl phthalate	5.2	U	0.53	5.2	10.4	ug/L
205-99-2	Benzo(b)fluoranthene	5.2	U	0.3	5.2	10.4	ug/L
207-08-9	Benzo(k)fluoranthene	5.2	U	0.19	5.2	10.4	ug/L
50-32-8	Benzo(a)pyrene	5.2	U	0.15	5.2	10.4	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.2	U	0.16	5.2	10.4	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.2	U	0.44	5.2	10.4	ug/L
191-24-2	Benzo(g,h,i)perylene	5.2	U	0.3	5.2	10.4	ug/L

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Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/12/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-35S	SDG No.:	D5165
Lab Sample ID:	D5165-03	Matrix:	Water
Analytical Method:	SW8270D	% Moisture:	100
Sample Wt/Vol:	960 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
BF059871.D	1	12/17/12	12/23/12	PB67493

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
SURROGATES							
367-12-4	2-Fluorophenol	52.3		10 - 130		35%	SPK: 150
13127-88-3	Phenol-d6	34.7		10 - 130		23%	SPK: 150
4165-60-0	Nitrobenzene-d5	90.6		36 - 131		91%	SPK: 100
321-60-8	2-Fluorobiphenyl	99.4		39 - 131		99%	SPK: 100
118-79-6	2,4,6-Tribromophenol	120		25 - 155		81%	SPK: 150
1718-51-0	Terphenyl-d14	79.2		23 - 130		79%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	223113	3.87				
1146-65-2	Naphthalene-d8	793365	5.45				
15067-26-2	Acenaphthene-d10	398263	7.91				
1517-22-2	Phenanthrene-d10	606264	9.63				
1719-03-5	Chrysene-d12	465528	12.49				
1520-96-3	Perylene-d12	490234	14.59				

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/12/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-GF-6	SDG No.:	D5165
Lab Sample ID:	D5165-04	Matrix:	Water
Analytical Method:	SW8270D	% Moisture:	100
Sample Wt/Vol:	920 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
BE080789.D	1	12/17/12	12/22/12	PB67493

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
108-95-2	Phenol	5.45	U	0.23	5.45	10.9	ug/L
111-44-4	bis(2-Chloroethyl)ether	5.45	U	0.6	5.45	10.9	ug/L
95-57-8	2-Chlorophenol	5.45	U	0.59	5.45	10.9	ug/L
95-50-1	1,2-Dichlorobenzene	5.45	U	0.28	5.45	10.9	ug/L
541-73-1	1,3-Dichlorobenzene	5.45	U	0.14	5.45	10.9	ug/L
106-46-7	1,4-Dichlorobenzene	5.45	U	0.22	5.45	10.9	ug/L
95-48-7	2-Methylphenol	5.45	UQ	0.26	5.45	10.9	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	5.45	U	0.18	5.45	10.9	ug/L
65794-96-9	3+4-Methylphenols	5.45	UQ	0.41	5.45	10.9	ug/L
621-64-7	n-Nitroso-di-n-propylamine	5.45	U	0.22	5.45	10.9	ug/L
67-72-1	Hexachloroethane	5.45	U	0.27	5.45	10.9	ug/L
98-95-3	Nitrobenzene	5.45	U	0.74	5.45	10.9	ug/L
78-59-1	Isophorone	5.45	U	0.33	5.45	10.9	ug/L
88-75-5	2-Nitrophenol	5.45	U	0.57	5.45	10.9	ug/L
105-67-9	2,4-Dimethylphenol	5.45	U	0.77	5.45	10.9	ug/L
111-91-1	bis(2-Chloroethoxy)methane	5.45	U	0.6	5.45	10.9	ug/L
120-83-2	2,4-Dichlorophenol	5.45	U	0.72	5.45	10.9	ug/L
120-82-1	1,2,4-Trichlorobenzene	5.45	U	0.16	5.45	10.9	ug/L
91-20-3	Naphthalene	5.45	U	0.13	5.45	10.9	ug/L
106-47-8	4-Chloroaniline	5.45	U	3.1	5.45	10.9	ug/L
87-68-3	Hexachlorobutadiene	5.45	U	0.27	5.45	10.9	ug/L
59-50-7	4-Chloro-3-methylphenol	5.45	U	0.43	5.45	10.9	ug/L
91-57-6	2-Methylnaphthalene	5.45	U	0.35	5.45	10.9	ug/L
77-47-4	Hexachlorocyclopentadiene	5.45	U	0.26	5.45	10.9	ug/L
88-06-2	2,4,6-Trichlorophenol	5.45	U	0.61	5.45	10.9	ug/L
95-95-4	2,4,5-Trichlorophenol	5.45	U	0.43	5.45	10.9	ug/L
91-58-7	2-Chloronaphthalene	5.45	U	0.17	5.45	10.9	ug/L
88-74-4	2-Nitroaniline	5.45	U	0.53	5.45	10.9	ug/L
131-11-3	Dimethylphthalate	5.45	U	0.24	5.45	10.9	ug/L
208-96-8	Acenaphthylene	5.45	U	0.76	5.45	10.9	ug/L
606-20-2	2,6-Dinitrotoluene	5.45	U	0.35	5.45	10.9	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/12/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-GF-6	SDG No.:	D5165
Lab Sample ID:	D5165-04	Matrix:	Water
Analytical Method:	SW8270D	% Moisture:	100
Sample Wt/Vol:	920 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
BE080789.D	1	12/17/12	12/22/12	PB67493

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	5.45	U	1.2	5.45	10.9	ug/L
83-32-9	Acenaphthene	5.45	U	0.23	5.45	10.9	ug/L
51-28-5	2,4-Dinitrophenol	5.45	U	2.3	5.45	10.9	ug/L
100-02-7	4-Nitrophenol	5.45	U	2.2	5.45	10.9	ug/L
132-64-9	Dibenzofuran	5.45	U	0.26	5.45	10.9	ug/L
121-14-2	2,4-Dinitrotoluene	5.45	U	1.1	5.45	10.9	ug/L
84-66-2	Diethylphthalate	5.45	U	0.41	5.45	10.9	ug/L
7005-72-3	4-Chlorophenyl-phenylether	5.45	U	0.23	5.45	10.9	ug/L
86-73-7	Fluorene	5.45	U	0.34	5.45	10.9	ug/L
100-01-6	4-Nitroaniline	5.45	U	1.5	5.45	10.9	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	5.45	U	0.8	5.45	10.9	ug/L
86-30-6	n-Nitrosodiphenylamine	5.45	U	0.65	5.45	10.9	ug/L
101-55-3	4-Bromophenyl-phenylether	5.45	U	0.25	5.45	10.9	ug/L
118-74-1	Hexachlorobenzene	5.45	U	0.2	5.45	10.9	ug/L
87-86-5	Pentachlorophenol	5.45	U	1.9	5.45	10.9	ug/L
85-01-8	Phenanthrene	5.45	U	0.28	5.45	10.9	ug/L
120-12-7	Anthracene	5.45	U	0.17	5.45	10.9	ug/L
86-74-8	Carbazole	5.45	U	0.24	5.45	10.9	ug/L
84-74-2	Di-n-butylphthalate	5.45	U	2.2	5.45	10.9	ug/L
206-44-0	Fluoranthene	5.45	U	0.43	5.45	10.9	ug/L
129-00-0	Pyrene	5.45	U	0.22	5.45	10.9	ug/L
85-68-7	Butylbenzylphthalate	5.45	U	0.21	5.45	10.9	ug/L
91-94-1	3,3-Dichlorobenzidine	5.45	U	2.2	5.45	10.9	ug/L
56-55-3	Benzo(a)anthracene	5.45	U	0.17	5.45	10.9	ug/L
218-01-9	Chrysene	5.45	U	0.2	5.45	10.9	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	5.45	U	0.17	5.45	10.9	ug/L
117-84-0	Di-n-octyl phthalate	5.45	U	0.55	5.45	10.9	ug/L
205-99-2	Benzo(b)fluoranthene	5.45	U	0.32	5.45	10.9	ug/L
207-08-9	Benzo(k)fluoranthene	5.45	U	0.2	5.45	10.9	ug/L
50-32-8	Benzo(a)pyrene	5.45	U	0.15	5.45	10.9	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.45	U	0.16	5.45	10.9	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.45	U	0.46	5.45	10.9	ug/L
191-24-2	Benzo(g,h,i)perylene	5.45	U	0.32	5.45	10.9	ug/L

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Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/12/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-GF-6	SDG No.:	D5165
Lab Sample ID:	D5165-04	Matrix:	Water
Analytical Method:	SW8270D	% Moisture:	100
Sample Wt/Vol:	920 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
BE080789.D	1	12/17/12	12/22/12	PB67493

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
SURROGATES							
367-12-4	2-Fluorophenol	51.3		10 - 130		34%	SPK: 150
13127-88-3	Phenol-d6	28.8		10 - 130		19%	SPK: 150
4165-60-0	Nitrobenzene-d5	90.1		36 - 131		90%	SPK: 100
321-60-8	2-Fluorobiphenyl	95.1		39 - 131		95%	SPK: 100
118-79-6	2,4,6-Tribromophenol	120		25 - 155		79%	SPK: 150
1718-51-0	Terphenyl-d14	90.4		23 - 130		90%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	49372	7.54				
1146-65-2	Naphthalene-d8	198917	9.72				
15067-26-2	Acenaphthene-d10	123337	12.65				
1517-22-2	Phenanthrene-d10	221175	15.09				
1719-03-5	Chrysene-d12	229627	19.4				
1520-96-3	Perylene-d12	216112	22.07				

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/12/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-GF-9	SDG No.:	D5165
Lab Sample ID:	D5165-05	Matrix:	Water
Analytical Method:	SW8270D	% Moisture:	100
Sample Wt/Vol:	980 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
BF059866.D	1	12/17/12	12/23/12	PB67493

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
108-95-2	Phenol	5.1	U	0.21	5.1	10.2	ug/L
111-44-4	bis(2-Chloroethyl)ether	5.1	U	0.56	5.1	10.2	ug/L
95-57-8	2-Chlorophenol	5.1	U	0.55	5.1	10.2	ug/L
95-50-1	1,2-Dichlorobenzene	5.1	U	0.27	5.1	10.2	ug/L
541-73-1	1,3-Dichlorobenzene	5.1	U	0.13	5.1	10.2	ug/L
106-46-7	1,4-Dichlorobenzene	5.1	U	0.2	5.1	10.2	ug/L
95-48-7	2-Methylphenol	5.1	UQ	0.24	5.1	10.2	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	5.1	U	0.17	5.1	10.2	ug/L
65794-96-9	3+4-Methylphenols	5.1	UQ	0.39	5.1	10.2	ug/L
621-64-7	n-Nitroso-di-n-propylamine	5.1	U	0.2	5.1	10.2	ug/L
67-72-1	Hexachloroethane	5.1	U	0.26	5.1	10.2	ug/L
98-95-3	Nitrobenzene	5.1	U	0.69	5.1	10.2	ug/L
78-59-1	Isophorone	5.1	U	0.31	5.1	10.2	ug/L
88-75-5	2-Nitrophenol	5.1	U	0.53	5.1	10.2	ug/L
105-67-9	2,4-Dimethylphenol	5.1	U	0.72	5.1	10.2	ug/L
111-91-1	bis(2-Chloroethoxy)methane	5.1	U	0.56	5.1	10.2	ug/L
120-83-2	2,4-Dichlorophenol	5.1	U	0.67	5.1	10.2	ug/L
120-82-1	1,2,4-Trichlorobenzene	5.1	U	0.15	5.1	10.2	ug/L
91-20-3	Naphthalene	5.1	U	0.12	5.1	10.2	ug/L
106-47-8	4-Chloroaniline	5.1	U	2.9	5.1	10.2	ug/L
87-68-3	Hexachlorobutadiene	5.1	U	0.26	5.1	10.2	ug/L
59-50-7	4-Chloro-3-methylphenol	5.1	U	0.41	5.1	10.2	ug/L
91-57-6	2-Methylnaphthalene	5.1	U	0.33	5.1	10.2	ug/L
77-47-4	Hexachlorocyclopentadiene	5.1	U	0.24	5.1	10.2	ug/L
88-06-2	2,4,6-Trichlorophenol	5.1	U	0.57	5.1	10.2	ug/L
95-95-4	2,4,5-Trichlorophenol	5.1	U	0.41	5.1	10.2	ug/L
91-58-7	2-Chloronaphthalene	5.1	U	0.16	5.1	10.2	ug/L
88-74-4	2-Nitroaniline	5.1	U	0.5	5.1	10.2	ug/L
131-11-3	Dimethylphthalate	5.1	U	0.22	5.1	10.2	ug/L
208-96-8	Acenaphthylene	5.1	U	0.71	5.1	10.2	ug/L
606-20-2	2,6-Dinitrotoluene	5.1	U	0.33	5.1	10.2	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/12/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-GF-9	SDG No.:	D5165
Lab Sample ID:	D5165-05	Matrix:	Water
Analytical Method:	SW8270D	% Moisture:	100
Sample Wt/Vol:	980 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
BF059866.D	1	12/17/12	12/23/12	PB67493

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	5.1	U	1.1	5.1	10.2	ug/L
83-32-9	Acenaphthene	5.1	U	0.21	5.1	10.2	ug/L
51-28-5	2,4-Dinitrophenol	5.1	U	2.1	5.1	10.2	ug/L
100-02-7	4-Nitrophenol	5.1	U	2	5.1	10.2	ug/L
132-64-9	Dibenzofuran	5.1	U	0.24	5.1	10.2	ug/L
121-14-2	2,4-Dinitrotoluene	5.1	U	1.1	5.1	10.2	ug/L
84-66-2	Diethylphthalate	5.1	U	0.39	5.1	10.2	ug/L
7005-72-3	4-Chlorophenyl-phenylether	5.1	U	0.21	5.1	10.2	ug/L
86-73-7	Fluorene	5.1	U	0.32	5.1	10.2	ug/L
100-01-6	4-Nitroaniline	5.1	U	1.4	5.1	10.2	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	5.1	U	0.76	5.1	10.2	ug/L
86-30-6	n-Nitrosodiphenylamine	5.1	U	0.61	5.1	10.2	ug/L
101-55-3	4-Bromophenyl-phenylether	5.1	U	0.23	5.1	10.2	ug/L
118-74-1	Hexachlorobenzene	5.1	U	0.18	5.1	10.2	ug/L
87-86-5	Pentachlorophenol	5.1	U	1.8	5.1	10.2	ug/L
85-01-8	Phenanthrene	5.1	U	0.27	5.1	10.2	ug/L
120-12-7	Anthracene	5.1	U	0.16	5.1	10.2	ug/L
86-74-8	Carbazole	5.1	U	0.22	5.1	10.2	ug/L
84-74-2	Di-n-butylphthalate	5.1	U	2	5.1	10.2	ug/L
206-44-0	Fluoranthene	5.1	U	0.41	5.1	10.2	ug/L
129-00-0	Pyrene	5.1	U	0.2	5.1	10.2	ug/L
85-68-7	Butylbenzylphthalate	5.1	U	0.19	5.1	10.2	ug/L
91-94-1	3,3-Dichlorobenzidine	5.1	U	2	5.1	10.2	ug/L
56-55-3	Benzo(a)anthracene	5.1	U	0.16	5.1	10.2	ug/L
218-01-9	Chrysene	5.1	U	0.18	5.1	10.2	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	5.1	U	0.16	5.1	10.2	ug/L
117-84-0	Di-n-octyl phthalate	5.1	U	0.52	5.1	10.2	ug/L
205-99-2	Benzo(b)fluoranthene	5.1	U	0.3	5.1	10.2	ug/L
207-08-9	Benzo(k)fluoranthene	5.1	U	0.18	5.1	10.2	ug/L
50-32-8	Benzo(a)pyrene	5.1	U	0.14	5.1	10.2	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.1	U	0.15	5.1	10.2	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.1	U	0.43	5.1	10.2	ug/L
191-24-2	Benzo(g,h,i)perylene	5.1	U	0.3	5.1	10.2	ug/L

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

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/12/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-GF-9	SDG No.:	D5165
Lab Sample ID:	D5165-05	Matrix:	Water
Analytical Method:	SW8270D	% Moisture:	100
Sample Wt/Vol:	980 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
BF059866.D	1	12/17/12	12/23/12	PB67493

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
SURROGATES							
367-12-4	2-Fluorophenol	51.5		10 - 130		34%	SPK: 150
13127-88-3	Phenol-d6	34.8		10 - 130		23%	SPK: 150
4165-60-0	Nitrobenzene-d5	88.7		36 - 131		89%	SPK: 100
321-60-8	2-Fluorobiphenyl	100		39 - 131		100%	SPK: 100
118-79-6	2,4,6-Tribromophenol	120		25 - 155		78%	SPK: 150
1718-51-0	Terphenyl-d14	72.2		23 - 130		72%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	216086	3.87				
1146-65-2	Naphthalene-d8	823944	5.45				
15067-26-2	Acenaphthene-d10	395726	7.91				
1517-22-2	Phenanthrene-d10	641371	9.62				
1719-03-5	Chrysene-d12	534086	12.44				
1520-96-3	Perylene-d12	479434	14.52				

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Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/12/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-34S	SDG No.:	D5165
Lab Sample ID:	D5165-06	Matrix:	Water
Analytical Method:	SW8270D	% Moisture:	100
Sample Wt/Vol:	960 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
BE080790.D	1	12/17/12	12/22/12	PB67493

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
108-95-2	Phenol	5.2	U	0.22	5.2	10.4	ug/L
111-44-4	bis(2-Chloroethyl)ether	5.2	U	0.57	5.2	10.4	ug/L
95-57-8	2-Chlorophenol	5.2	U	0.56	5.2	10.4	ug/L
95-50-1	1,2-Dichlorobenzene	5.2	U	0.27	5.2	10.4	ug/L
541-73-1	1,3-Dichlorobenzene	5.2	U	0.14	5.2	10.4	ug/L
106-46-7	1,4-Dichlorobenzene	5.2	U	0.21	5.2	10.4	ug/L
95-48-7	2-Methylphenol	5.2	UQ	0.25	5.2	10.4	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	5.2	U	0.18	5.2	10.4	ug/L
65794-96-9	3+4-Methylphenols	5.2	UQ	0.4	5.2	10.4	ug/L
621-64-7	n-Nitroso-di-n-propylamine	5.2	U	0.21	5.2	10.4	ug/L
67-72-1	Hexachloroethane	5.2	U	0.26	5.2	10.4	ug/L
98-95-3	Nitrobenzene	5.2	U	0.71	5.2	10.4	ug/L
78-59-1	Isophorone	5.2	U	0.31	5.2	10.4	ug/L
88-75-5	2-Nitrophenol	5.2	U	0.54	5.2	10.4	ug/L
105-67-9	2,4-Dimethylphenol	5.2	U	0.74	5.2	10.4	ug/L
111-91-1	bis(2-Chloroethoxy)methane	5.2	U	0.57	5.2	10.4	ug/L
120-83-2	2,4-Dichlorophenol	5.2	U	0.69	5.2	10.4	ug/L
120-82-1	1,2,4-Trichlorobenzene	5.2	U	0.16	5.2	10.4	ug/L
91-20-3	Naphthalene	5.2	U	0.13	5.2	10.4	ug/L
106-47-8	4-Chloroaniline	5.2	U	3	5.2	10.4	ug/L
87-68-3	Hexachlorobutadiene	5.2	U	0.26	5.2	10.4	ug/L
59-50-7	4-Chloro-3-methylphenol	5.2	U	0.42	5.2	10.4	ug/L
91-57-6	2-Methylnaphthalene	5.2	U	0.33	5.2	10.4	ug/L
77-47-4	Hexachlorocyclopentadiene	5.2	U	0.25	5.2	10.4	ug/L
88-06-2	2,4,6-Trichlorophenol	5.2	U	0.58	5.2	10.4	ug/L
95-95-4	2,4,5-Trichlorophenol	5.2	U	0.42	5.2	10.4	ug/L
91-58-7	2-Chloronaphthalene	5.2	U	0.17	5.2	10.4	ug/L
88-74-4	2-Nitroaniline	5.2	U	0.51	5.2	10.4	ug/L
131-11-3	Dimethylphthalate	5.2	U	0.23	5.2	10.4	ug/L
208-96-8	Acenaphthylene	5.2	U	0.73	5.2	10.4	ug/L
606-20-2	2,6-Dinitrotoluene	5.2	U	0.33	5.2	10.4	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/12/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-34S	SDG No.:	D5165
Lab Sample ID:	D5165-06	Matrix:	Water
Analytical Method:	SW8270D	% Moisture:	100
Sample Wt/Vol:	960 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
BE080790.D	1	12/17/12	12/22/12	PB67493

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	5.2	U	1.1	5.2	10.4	ug/L
83-32-9	Acenaphthene	5.2	U	0.22	5.2	10.4	ug/L
51-28-5	2,4-Dinitrophenol	5.2	U	2.2	5.2	10.4	ug/L
100-02-7	4-Nitrophenol	5.2	U	2.1	5.2	10.4	ug/L
132-64-9	Dibenzofuran	5.2	U	0.25	5.2	10.4	ug/L
121-14-2	2,4-Dinitrotoluene	5.2	U	1.1	5.2	10.4	ug/L
84-66-2	Diethylphthalate	5.2	U	0.4	5.2	10.4	ug/L
7005-72-3	4-Chlorophenyl-phenylether	5.2	U	0.22	5.2	10.4	ug/L
86-73-7	Fluorene	5.2	U	0.32	5.2	10.4	ug/L
100-01-6	4-Nitroaniline	5.2	U	1.4	5.2	10.4	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	5.2	U	0.77	5.2	10.4	ug/L
86-30-6	n-Nitrosodiphenylamine	5.2	U	0.63	5.2	10.4	ug/L
101-55-3	4-Bromophenyl-phenylether	5.2	U	0.24	5.2	10.4	ug/L
118-74-1	Hexachlorobenzene	5.2	U	0.19	5.2	10.4	ug/L
87-86-5	Pentachlorophenol	5.2	U	1.8	5.2	10.4	ug/L
85-01-8	Phenanthrene	5.2	U	0.27	5.2	10.4	ug/L
120-12-7	Anthracene	5.2	U	0.17	5.2	10.4	ug/L
86-74-8	Carbazole	5.2	U	0.23	5.2	10.4	ug/L
84-74-2	Di-n-butylphthalate	5.2	U	2.1	5.2	10.4	ug/L
206-44-0	Fluoranthene	5.2	U	0.42	5.2	10.4	ug/L
129-00-0	Pyrene	5.2	U	0.21	5.2	10.4	ug/L
85-68-7	Butylbenzylphthalate	5.2	U	0.2	5.2	10.4	ug/L
91-94-1	3,3-Dichlorobenzidine	5.2	U	2.1	5.2	10.4	ug/L
56-55-3	Benzo(a)anthracene	5.2	U	0.17	5.2	10.4	ug/L
218-01-9	Chrysene	5.2	U	0.19	5.2	10.4	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	5.2	U	0.17	5.2	10.4	ug/L
117-84-0	Di-n-octyl phthalate	5.2	U	0.53	5.2	10.4	ug/L
205-99-2	Benzo(b)fluoranthene	5.2	U	0.3	5.2	10.4	ug/L
207-08-9	Benzo(k)fluoranthene	5.2	U	0.19	5.2	10.4	ug/L
50-32-8	Benzo(a)pyrene	5.2	U	0.15	5.2	10.4	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.2	U	0.16	5.2	10.4	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.2	U	0.44	5.2	10.4	ug/L
191-24-2	Benzo(g,h,i)perylene	5.2	U	0.3	5.2	10.4	ug/L

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Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/12/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-34S	SDG No.:	D5165
Lab Sample ID:	D5165-06	Matrix:	Water
Analytical Method:	SW8270D	% Moisture:	100
Sample Wt/Vol:	960 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
BE080790.D	1	12/17/12	12/22/12	PB67493

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
SURROGATES							
367-12-4	2-Fluorophenol	48.3		10 - 130		32%	SPK: 150
13127-88-3	Phenol-d6	28.9		10 - 130		19%	SPK: 150
4165-60-0	Nitrobenzene-d5	92		36 - 131		92%	SPK: 100
321-60-8	2-Fluorobiphenyl	95.5		39 - 131		96%	SPK: 100
118-79-6	2,4,6-Tribromophenol	120		25 - 155		79%	SPK: 150
1718-51-0	Terphenyl-d14	86.7		23 - 130		87%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	50935	7.54				
1146-65-2	Naphthalene-d8	199473	9.72				
15067-26-2	Acenaphthene-d10	119430	12.65				
1517-22-2	Phenanthrene-d10	214743	15.09				
1719-03-5	Chrysene-d12	229808	19.4				
1520-96-3	Perylene-d12	218702	22.07				

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/12/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-GF-7	SDG No.:	D5165
Lab Sample ID:	D5165-07	Matrix:	Water
Analytical Method:	SW8270D	% Moisture:	100
Sample Wt/Vol:	970 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
BF059872.D	1	12/17/12	12/23/12	PB67493

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
108-95-2	Phenol	5.15	U	0.22	5.15	10.3	ug/L
111-44-4	bis(2-Chloroethyl)ether	5.15	U	0.57	5.15	10.3	ug/L
95-57-8	2-Chlorophenol	5.15	U	0.56	5.15	10.3	ug/L
95-50-1	1,2-Dichlorobenzene	5.15	U	0.27	5.15	10.3	ug/L
541-73-1	1,3-Dichlorobenzene	5.15	U	0.13	5.15	10.3	ug/L
106-46-7	1,4-Dichlorobenzene	5.15	U	0.21	5.15	10.3	ug/L
95-48-7	2-Methylphenol	5.15	UQ	0.25	5.15	10.3	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	5.15	U	0.18	5.15	10.3	ug/L
65794-96-9	3+4-Methylphenols	5.15	UQ	0.39	5.15	10.3	ug/L
621-64-7	n-Nitroso-di-n-propylamine	5.15	U	0.21	5.15	10.3	ug/L
67-72-1	Hexachloroethane	5.15	U	0.26	5.15	10.3	ug/L
98-95-3	Nitrobenzene	5.15	U	0.7	5.15	10.3	ug/L
78-59-1	Isophorone	5.15	U	0.31	5.15	10.3	ug/L
88-75-5	2-Nitrophenol	5.15	U	0.54	5.15	10.3	ug/L
105-67-9	2,4-Dimethylphenol	5.15	U	0.73	5.15	10.3	ug/L
111-91-1	bis(2-Chloroethoxy)methane	5.15	U	0.57	5.15	10.3	ug/L
120-83-2	2,4-Dichlorophenol	5.15	U	0.68	5.15	10.3	ug/L
120-82-1	1,2,4-Trichlorobenzene	5.15	U	0.15	5.15	10.3	ug/L
91-20-3	Naphthalene	5.15	U	0.12	5.15	10.3	ug/L
106-47-8	4-Chloroaniline	5.15	U	2.9	5.15	10.3	ug/L
87-68-3	Hexachlorobutadiene	5.15	U	0.26	5.15	10.3	ug/L
59-50-7	4-Chloro-3-methylphenol	5.15	U	0.41	5.15	10.3	ug/L
91-57-6	2-Methylnaphthalene	5.15	U	0.33	5.15	10.3	ug/L
77-47-4	Hexachlorocyclopentadiene	5.15	U	0.25	5.15	10.3	ug/L
88-06-2	2,4,6-Trichlorophenol	5.15	U	0.58	5.15	10.3	ug/L
95-95-4	2,4,5-Trichlorophenol	5.15	U	0.41	5.15	10.3	ug/L
91-58-7	2-Chloronaphthalene	5.15	U	0.16	5.15	10.3	ug/L
88-74-4	2-Nitroaniline	5.15	U	0.51	5.15	10.3	ug/L
131-11-3	Dimethylphthalate	5.15	U	0.23	5.15	10.3	ug/L
208-96-8	Acenaphthylene	5.15	U	0.72	5.15	10.3	ug/L
606-20-2	2,6-Dinitrotoluene	5.15	U	0.33	5.15	10.3	ug/L

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Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/12/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-GF-7	SDG No.:	D5165
Lab Sample ID:	D5165-07	Matrix:	Water
Analytical Method:	SW8270D	% Moisture:	100
Sample Wt/Vol:	970 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
BF059872.D	1	12/17/12	12/23/12	PB67493

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	5.15	U	1.1	5.15	10.3	ug/L
83-32-9	Acenaphthene	6.4	J	0.22	5.15	10.3	ug/L
51-28-5	2,4-Dinitrophenol	5.15	U	2.2	5.15	10.3	ug/L
100-02-7	4-Nitrophenol	5.15	U	2.1	5.15	10.3	ug/L
132-64-9	Dibenzofuran	4.3	J	0.25	5.15	10.3	ug/L
121-14-2	2,4-Dinitrotoluene	5.15	U	1.1	5.15	10.3	ug/L
84-66-2	Diethylphthalate	5.15	U	0.39	5.15	10.3	ug/L
7005-72-3	4-Chlorophenyl-phenylether	5.15	U	0.22	5.15	10.3	ug/L
86-73-7	Fluorene	7.9	J	0.32	5.15	10.3	ug/L
100-01-6	4-Nitroaniline	5.15	U	1.4	5.15	10.3	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	5.15	U	0.76	5.15	10.3	ug/L
86-30-6	n-Nitrosodiphenylamine	5.15	U	0.62	5.15	10.3	ug/L
101-55-3	4-Bromophenyl-phenylether	5.15	U	0.24	5.15	10.3	ug/L
118-74-1	Hexachlorobenzene	5.15	U	0.19	5.15	10.3	ug/L
87-86-5	Pentachlorophenol	5.15	U	1.8	5.15	10.3	ug/L
85-01-8	Phenanthrene	6.3	J	0.27	5.15	10.3	ug/L
120-12-7	Anthracene	5.15	U	0.16	5.15	10.3	ug/L
86-74-8	Carbazole	28.4		0.23	5.15	10.3	ug/L
84-74-2	Di-n-butylphthalate	5.15	U	2.1	5.15	10.3	ug/L
206-44-0	Fluoranthene	5.15	U	0.41	5.15	10.3	ug/L
129-00-0	Pyrene	5.15	U	0.21	5.15	10.3	ug/L
85-68-7	Butylbenzylphthalate	5.15	U	0.2	5.15	10.3	ug/L
91-94-1	3,3-Dichlorobenzidine	5.15	U	2.1	5.15	10.3	ug/L
56-55-3	Benzo(a)anthracene	5.15	U	0.16	5.15	10.3	ug/L
218-01-9	Chrysene	5.15	U	0.19	5.15	10.3	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	5.15	U	0.16	5.15	10.3	ug/L
117-84-0	Di-n-octyl phthalate	5.15	U	0.53	5.15	10.3	ug/L
205-99-2	Benzo(b)fluoranthene	5.15	U	0.3	5.15	10.3	ug/L
207-08-9	Benzo(k)fluoranthene	5.15	U	0.19	5.15	10.3	ug/L
50-32-8	Benzo(a)pyrene	5.15	U	0.14	5.15	10.3	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.15	U	0.15	5.15	10.3	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.15	U	0.43	5.15	10.3	ug/L
191-24-2	Benzo(g,h,i)perylene	5.15	U	0.3	5.15	10.3	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/12/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-GF-7	SDG No.:	D5165
Lab Sample ID:	D5165-07	Matrix:	Water
Analytical Method:	SW8270D	% Moisture:	100
Sample Wt/Vol:	970 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
BF059872.D	1	12/17/12	12/23/12	PB67493

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
SURROGATES							
367-12-4	2-Fluorophenol	54.3		10 - 130		36%	SPK: 150
13127-88-3	Phenol-d6	36.1		10 - 130		24%	SPK: 150
4165-60-0	Nitrobenzene-d5	88.8		36 - 131		89%	SPK: 100
321-60-8	2-Fluorobiphenyl	95.1		39 - 131		95%	SPK: 100
118-79-6	2,4,6-Tribromophenol	120		25 - 155		78%	SPK: 150
1718-51-0	Terphenyl-d14	73.1		23 - 130		73%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	222058	3.87				
1146-65-2	Naphthalene-d8	797979	5.45				
15067-26-2	Acenaphthene-d10	402979	7.91				
1517-22-2	Phenanthrene-d10	638544	9.63				
1719-03-5	Chrysene-d12	544896	12.46				
1520-96-3	Perylene-d12	495205	14.54				

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Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/12/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-36S	SDG No.:	D5165
Lab Sample ID:	D5165-08	Matrix:	Water
Analytical Method:	SW8270D	% Moisture:	100
Sample Wt/Vol:	990 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
BE080791.D	1	12/17/12	12/22/12	PB67493

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
108-95-2	Phenol	5.05	U	0.21	5.05	10.1	ug/L
111-44-4	bis(2-Chloroethyl)ether	5.05	U	0.56	5.05	10.1	ug/L
95-57-8	2-Chlorophenol	5.05	U	0.55	5.05	10.1	ug/L
95-50-1	1,2-Dichlorobenzene	5.05	U	0.26	5.05	10.1	ug/L
541-73-1	1,3-Dichlorobenzene	5.05	U	0.13	5.05	10.1	ug/L
106-46-7	1,4-Dichlorobenzene	5.05	U	0.2	5.05	10.1	ug/L
95-48-7	2-Methylphenol	5.05	UQ	0.24	5.05	10.1	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	5.05	U	0.17	5.05	10.1	ug/L
65794-96-9	3+4-Methylphenols	5.05	UQ	0.38	5.05	10.1	ug/L
621-64-7	n-Nitroso-di-n-propylamine	5.05	U	0.2	5.05	10.1	ug/L
67-72-1	Hexachloroethane	5.05	U	0.25	5.05	10.1	ug/L
98-95-3	Nitrobenzene	5.05	U	0.69	5.05	10.1	ug/L
78-59-1	Isophorone	5.05	U	0.3	5.05	10.1	ug/L
88-75-5	2-Nitrophenol	5.05	U	0.53	5.05	10.1	ug/L
105-67-9	2,4-Dimethylphenol	5.05	U	0.72	5.05	10.1	ug/L
111-91-1	bis(2-Chloroethoxy)methane	5.05	U	0.56	5.05	10.1	ug/L
120-83-2	2,4-Dichlorophenol	5.05	U	0.67	5.05	10.1	ug/L
120-82-1	1,2,4-Trichlorobenzene	5.05	U	0.15	5.05	10.1	ug/L
91-20-3	Naphthalene	5.05	U	0.12	5.05	10.1	ug/L
106-47-8	4-Chloroaniline	5.05	U	2.9	5.05	10.1	ug/L
87-68-3	Hexachlorobutadiene	5.05	U	0.25	5.05	10.1	ug/L
59-50-7	4-Chloro-3-methylphenol	5.05	U	0.4	5.05	10.1	ug/L
91-57-6	2-Methylnaphthalene	31		0.32	5.05	10.1	ug/L
77-47-4	Hexachlorocyclopentadiene	5.05	U	0.24	5.05	10.1	ug/L
88-06-2	2,4,6-Trichlorophenol	5.05	U	0.57	5.05	10.1	ug/L
95-95-4	2,4,5-Trichlorophenol	5.05	U	0.4	5.05	10.1	ug/L
91-58-7	2-Chloronaphthalene	5.05	U	0.16	5.05	10.1	ug/L
88-74-4	2-Nitroaniline	5.05	U	0.49	5.05	10.1	ug/L
131-11-3	Dimethylphthalate	5.05	U	0.22	5.05	10.1	ug/L
208-96-8	Acenaphthylene	5.05	U	0.71	5.05	10.1	ug/L
606-20-2	2,6-Dinitrotoluene	5.05	U	0.32	5.05	10.1	ug/L

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Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/12/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-36S	SDG No.:	D5165
Lab Sample ID:	D5165-08	Matrix:	Water
Analytical Method:	SW8270D	% Moisture:	100
Sample Wt/Vol:	990 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
BE080791.D	1	12/17/12	12/22/12	PB67493

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	5.05	U	1.1	5.05	10.1	ug/L
83-32-9	Acenaphthene	7.2	J	0.21	5.05	10.1	ug/L
51-28-5	2,4-Dinitrophenol	5.05	U	2.1	5.05	10.1	ug/L
100-02-7	4-Nitrophenol	5.05	U	2	5.05	10.1	ug/L
132-64-9	Dibenzofuran	6.6	J	0.24	5.05	10.1	ug/L
121-14-2	2,4-Dinitrotoluene	5.05	U	1	5.05	10.1	ug/L
84-66-2	Diethylphthalate	5.05	U	0.38	5.05	10.1	ug/L
7005-72-3	4-Chlorophenyl-phenylether	5.05	U	0.21	5.05	10.1	ug/L
86-73-7	Fluorene	10	J	0.31	5.05	10.1	ug/L
100-01-6	4-Nitroaniline	5.05	U	1.4	5.05	10.1	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	5.05	U	0.75	5.05	10.1	ug/L
86-30-6	n-Nitrosodiphenylamine	5.05	U	0.61	5.05	10.1	ug/L
101-55-3	4-Bromophenyl-phenylether	5.05	U	0.23	5.05	10.1	ug/L
118-74-1	Hexachlorobenzene	5.05	U	0.18	5.05	10.1	ug/L
87-86-5	Pentachlorophenol	5.05	U	1.7	5.05	10.1	ug/L
85-01-8	Phenanthrene	9.9	J	0.26	5.05	10.1	ug/L
120-12-7	Anthracene	5.05	U	0.16	5.05	10.1	ug/L
86-74-8	Carbazole	5.05	U	0.22	5.05	10.1	ug/L
84-74-2	Di-n-butylphthalate	5.05	U	2	5.05	10.1	ug/L
206-44-0	Fluoranthene	5.05	U	0.4	5.05	10.1	ug/L
129-00-0	Pyrene	5.05	U	0.2	5.05	10.1	ug/L
85-68-7	Butylbenzylphthalate	5.05	U	0.19	5.05	10.1	ug/L
91-94-1	3,3-Dichlorobenzidine	5.05	U	2	5.05	10.1	ug/L
56-55-3	Benzo(a)anthracene	5.05	U	0.16	5.05	10.1	ug/L
218-01-9	Chrysene	5.05	U	0.18	5.05	10.1	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	5.05	U	0.16	5.05	10.1	ug/L
117-84-0	Di-n-octyl phthalate	5.05	U	0.52	5.05	10.1	ug/L
205-99-2	Benzo(b)fluoranthene	5.05	U	0.29	5.05	10.1	ug/L
207-08-9	Benzo(k)fluoranthene	5.05	U	0.18	5.05	10.1	ug/L
50-32-8	Benzo(a)pyrene	5.05	U	0.14	5.05	10.1	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.05	U	0.15	5.05	10.1	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.05	U	0.42	5.05	10.1	ug/L
191-24-2	Benzo(g,h,i)perylene	5.05	U	0.29	5.05	10.1	ug/L

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Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/12/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-36S	SDG No.:	D5165
Lab Sample ID:	D5165-08	Matrix:	Water
Analytical Method:	SW8270D	% Moisture:	100
Sample Wt/Vol:	990 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
BE080791.D	1	12/17/12	12/22/12	PB67493

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
SURROGATES							
367-12-4	2-Fluorophenol	46.8		10 - 130		31%	SPK: 150
13127-88-3	Phenol-d6	27.8		10 - 130		19%	SPK: 150
4165-60-0	Nitrobenzene-d5	93.2		36 - 131		93%	SPK: 100
321-60-8	2-Fluorobiphenyl	95.3		39 - 131		95%	SPK: 100
118-79-6	2,4,6-Tribromophenol	110		25 - 155		75%	SPK: 150
1718-51-0	Terphenyl-d14	87.9		23 - 130		88%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	49665	7.54				
1146-65-2	Naphthalene-d8	193319	9.72				
15067-26-2	Acenaphthene-d10	114815	12.66				
1517-22-2	Phenanthrene-d10	203114	15.09				
1719-03-5	Chrysene-d12	216760	19.4				
1520-96-3	Perylene-d12	213230	22.07				

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/12/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-GF-18	SDG No.:	D5165
Lab Sample ID:	D5165-09	Matrix:	Water
Analytical Method:	SW8270D	% Moisture:	100
Sample Wt/Vol:	980 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
BE080792.D	1	12/17/12	12/22/12	PB67493

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
108-95-2	Phenol	5.1	U	0.21	5.1	10.2	ug/L
111-44-4	bis(2-Chloroethyl)ether	5.1	U	0.56	5.1	10.2	ug/L
95-57-8	2-Chlorophenol	5.1	U	0.55	5.1	10.2	ug/L
95-50-1	1,2-Dichlorobenzene	5.1	U	0.27	5.1	10.2	ug/L
541-73-1	1,3-Dichlorobenzene	5.1	U	0.13	5.1	10.2	ug/L
106-46-7	1,4-Dichlorobenzene	5.1	U	0.2	5.1	10.2	ug/L
95-48-7	2-Methylphenol	5.1	UQ	0.24	5.1	10.2	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	5.1	U	0.17	5.1	10.2	ug/L
65794-96-9	3+4-Methylphenols	5.1	UQ	0.39	5.1	10.2	ug/L
621-64-7	n-Nitroso-di-n-propylamine	5.1	U	0.2	5.1	10.2	ug/L
67-72-1	Hexachloroethane	5.1	U	0.26	5.1	10.2	ug/L
98-95-3	Nitrobenzene	5.1	U	0.69	5.1	10.2	ug/L
78-59-1	Isophorone	5.1	U	0.31	5.1	10.2	ug/L
88-75-5	2-Nitrophenol	5.1	U	0.53	5.1	10.2	ug/L
105-67-9	2,4-Dimethylphenol	5.1	U	0.72	5.1	10.2	ug/L
111-91-1	bis(2-Chloroethoxy)methane	5.1	U	0.56	5.1	10.2	ug/L
120-83-2	2,4-Dichlorophenol	5.1	U	0.67	5.1	10.2	ug/L
120-82-1	1,2,4-Trichlorobenzene	5.1	U	0.15	5.1	10.2	ug/L
91-20-3	Naphthalene	5.1	U	0.12	5.1	10.2	ug/L
106-47-8	4-Chloroaniline	5.1	U	2.9	5.1	10.2	ug/L
87-68-3	Hexachlorobutadiene	5.1	U	0.26	5.1	10.2	ug/L
59-50-7	4-Chloro-3-methylphenol	5.1	U	0.41	5.1	10.2	ug/L
91-57-6	2-Methylnaphthalene	89	E	0.33	5.1	10.2	ug/L
77-47-4	Hexachlorocyclopentadiene	5.1	U	0.24	5.1	10.2	ug/L
88-06-2	2,4,6-Trichlorophenol	5.1	U	0.57	5.1	10.2	ug/L
95-95-4	2,4,5-Trichlorophenol	5.1	U	0.41	5.1	10.2	ug/L
91-58-7	2-Chloronaphthalene	5.1	U	0.16	5.1	10.2	ug/L
88-74-4	2-Nitroaniline	5.1	U	0.5	5.1	10.2	ug/L
131-11-3	Dimethylphthalate	5.1	U	0.22	5.1	10.2	ug/L
208-96-8	Acenaphthylene	5.1	U	0.71	5.1	10.2	ug/L
606-20-2	2,6-Dinitrotoluene	5.1	U	0.33	5.1	10.2	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/12/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-GF-18	SDG No.:	D5165
Lab Sample ID:	D5165-09	Matrix:	Water
Analytical Method:	SW8270D	% Moisture:	100
Sample Wt/Vol:	980 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
BE080792.D	1	12/17/12	12/22/12	PB67493

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	5.1	U	1.1	5.1	10.2	ug/L
83-32-9	Acenaphthene	8.3	J	0.21	5.1	10.2	ug/L
51-28-5	2,4-Dinitrophenol	5.1	U	2.1	5.1	10.2	ug/L
100-02-7	4-Nitrophenol	5.1	U	2	5.1	10.2	ug/L
132-64-9	Dibenzofuran	7.5	J	0.24	5.1	10.2	ug/L
121-14-2	2,4-Dinitrotoluene	5.1	U	1.1	5.1	10.2	ug/L
84-66-2	Diethylphthalate	5.1	U	0.39	5.1	10.2	ug/L
7005-72-3	4-Chlorophenyl-phenylether	5.1	U	0.21	5.1	10.2	ug/L
86-73-7	Fluorene	11.3		0.32	5.1	10.2	ug/L
100-01-6	4-Nitroaniline	5.1	U	1.4	5.1	10.2	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	5.1	U	0.76	5.1	10.2	ug/L
86-30-6	n-Nitrosodiphenylamine	5.1	U	0.61	5.1	10.2	ug/L
101-55-3	4-Bromophenyl-phenylether	5.1	U	0.23	5.1	10.2	ug/L
118-74-1	Hexachlorobenzene	5.1	U	0.18	5.1	10.2	ug/L
87-86-5	Pentachlorophenol	5.1	U	1.8	5.1	10.2	ug/L
85-01-8	Phenanthrene	13.5		0.27	5.1	10.2	ug/L
120-12-7	Anthracene	5.1	U	0.16	5.1	10.2	ug/L
86-74-8	Carbazole	6.6	J	0.22	5.1	10.2	ug/L
84-74-2	Di-n-butylphthalate	5.1	U	2	5.1	10.2	ug/L
206-44-0	Fluoranthene	5.1	U	0.41	5.1	10.2	ug/L
129-00-0	Pyrene	5.1	U	0.2	5.1	10.2	ug/L
85-68-7	Butylbenzylphthalate	5.1	U	0.19	5.1	10.2	ug/L
91-94-1	3,3-Dichlorobenzidine	5.1	U	2	5.1	10.2	ug/L
56-55-3	Benzo(a)anthracene	5.1	U	0.16	5.1	10.2	ug/L
218-01-9	Chrysene	5.1	U	0.18	5.1	10.2	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	5.1	U	0.16	5.1	10.2	ug/L
117-84-0	Di-n-octyl phthalate	5.1	U	0.52	5.1	10.2	ug/L
205-99-2	Benzo(b)fluoranthene	5.1	U	0.3	5.1	10.2	ug/L
207-08-9	Benzo(k)fluoranthene	5.1	U	0.18	5.1	10.2	ug/L
50-32-8	Benzo(a)pyrene	5.1	U	0.14	5.1	10.2	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.1	U	0.15	5.1	10.2	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.1	U	0.43	5.1	10.2	ug/L
191-24-2	Benzo(g,h,i)perylene	5.1	U	0.3	5.1	10.2	ug/L

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Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/12/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-GF-18	SDG No.:	D5165
Lab Sample ID:	D5165-09	Matrix:	Water
Analytical Method:	SW8270D	% Moisture:	100
Sample Wt/Vol:	980 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
BE080792.D	1	12/17/12	12/22/12	PB67493

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
SURROGATES							
367-12-4	2-Fluorophenol	51.5		10 - 130		34%	SPK: 150
13127-88-3	Phenol-d6	30.7		10 - 130		20%	SPK: 150
4165-60-0	Nitrobenzene-d5	94.4		36 - 131		94%	SPK: 100
321-60-8	2-Fluorobiphenyl	93.6		39 - 131		94%	SPK: 100
118-79-6	2,4,6-Tribromophenol	120		25 - 155		77%	SPK: 150
1718-51-0	Terphenyl-d14	87.2		23 - 130		87%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	50514	7.54				
1146-65-2	Naphthalene-d8	197526	9.72				
15067-26-2	Acenaphthene-d10	121189	12.66				
1517-22-2	Phenanthrene-d10	206459	15.09				
1719-03-5	Chrysene-d12	223361	19.4				
1520-96-3	Perylene-d12	213731	22.07				

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/12/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-GF-18DL	SDG No.:	D5165
Lab Sample ID:	D5165-09DL	Matrix:	Water
Analytical Method:	SW8270D	% Moisture:	100
Sample Wt/Vol:	980 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
BE080837.D	2	12/17/12	12/25/12	PB67493

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
108-95-2	Phenol	10.2	UD	0.43	10.2	20.4	ug/L
111-44-4	bis(2-Chloroethyl)ether	10.2	UD	1.1	10.2	20.4	ug/L
95-57-8	2-Chlorophenol	10.2	UD	1.1	10.2	20.4	ug/L
95-50-1	1,2-Dichlorobenzene	10.2	UD	0.53	10.2	20.4	ug/L
541-73-1	1,3-Dichlorobenzene	10.2	UD	0.27	10.2	20.4	ug/L
106-46-7	1,4-Dichlorobenzene	10.2	UD	0.41	10.2	20.4	ug/L
95-48-7	2-Methylphenol	10.2	UDQ	0.49	10.2	20.4	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	10.2	UD	0.35	10.2	20.4	ug/L
65794-96-9	3+4-Methylphenols	10.2	UDQ	0.78	10.2	20.4	ug/L
621-64-7	n-Nitroso-di-n-propylamine	10.2	UD	0.41	10.2	20.4	ug/L
67-72-1	Hexachloroethane	10.2	UD	0.51	10.2	20.4	ug/L
98-95-3	Nitrobenzene	10.2	UD	1.4	10.2	20.4	ug/L
78-59-1	Isophorone	10.2	UD	0.61	10.2	20.4	ug/L
88-75-5	2-Nitrophenol	10.2	UD	1.1	10.2	20.4	ug/L
105-67-9	2,4-Dimethylphenol	10.2	UD	1.4	10.2	20.4	ug/L
111-91-1	bis(2-Chloroethoxy)methane	10.2	UD	1.1	10.2	20.4	ug/L
120-83-2	2,4-Dichlorophenol	10.2	UD	1.3	10.2	20.4	ug/L
120-82-1	1,2,4-Trichlorobenzene	10.2	UD	0.31	10.2	20.4	ug/L
91-20-3	Naphthalene	10.2	UD	0.24	10.2	20.4	ug/L
106-47-8	4-Chloroaniline	10.2	UD	5.8	10.2	20.4	ug/L
87-68-3	Hexachlorobutadiene	10.2	UD	0.51	10.2	20.4	ug/L
59-50-7	4-Chloro-3-methylphenol	10.2	UD	0.82	10.2	20.4	ug/L
91-57-6	2-Methylnaphthalene	86.3	D	0.65	10.2	20.4	ug/L
77-47-4	Hexachlorocyclopentadiene	10.2	UD	0.49	10.2	20.4	ug/L
88-06-2	2,4,6-Trichlorophenol	10.2	UD	1.1	10.2	20.4	ug/L
95-95-4	2,4,5-Trichlorophenol	10.2	UD	0.82	10.2	20.4	ug/L
91-58-7	2-Chloronaphthalene	10.2	UD	0.33	10.2	20.4	ug/L
88-74-4	2-Nitroaniline	10.2	UD	1	10.2	20.4	ug/L
131-11-3	Dimethylphthalate	10.2	UD	0.45	10.2	20.4	ug/L
208-96-8	Acenaphthylene	10.2	UD	1.4	10.2	20.4	ug/L
606-20-2	2,6-Dinitrotoluene	10.2	UD	0.65	10.2	20.4	ug/L

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Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/12/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-GF-18DL	SDG No.:	D5165
Lab Sample ID:	D5165-09DL	Matrix:	Water
Analytical Method:	SW8270D	% Moisture:	100
Sample Wt/Vol:	980 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
BE080837.D	2	12/17/12	12/25/12	PB67493

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	10.2	UD	2.2	10.2	20.4	ug/L
83-32-9	Acenaphthene	8.2	JD	0.43	10.2	20.4	ug/L
51-28-5	2,4-Dinitrophenol	10.2	UD	4.3	10.2	20.4	ug/L
100-02-7	4-Nitrophenol	10.2	UD	4.1	10.2	20.4	ug/L
132-64-9	Dibenzofuran	10.2	UD	0.49	10.2	20.4	ug/L
121-14-2	2,4-Dinitrotoluene	10.2	UD	2.1	10.2	20.4	ug/L
84-66-2	Diethylphthalate	10.2	UD	0.78	10.2	20.4	ug/L
7005-72-3	4-Chlorophenyl-phenylether	10.2	UD	0.43	10.2	20.4	ug/L
86-73-7	Fluorene	10.7	JD	0.63	10.2	20.4	ug/L
100-01-6	4-Nitroaniline	10.2	UD	2.8	10.2	20.4	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.2	UD	1.5	10.2	20.4	ug/L
86-30-6	n-Nitrosodiphenylamine	10.2	UD	1.2	10.2	20.4	ug/L
101-55-3	4-Bromophenyl-phenylether	10.2	UD	0.47	10.2	20.4	ug/L
118-74-1	Hexachlorobenzene	10.2	UD	0.37	10.2	20.4	ug/L
87-86-5	Pentachlorophenol	10.2	UD	3.5	10.2	20.4	ug/L
85-01-8	Phenanthrene	13.2	JD	0.53	10.2	20.4	ug/L
120-12-7	Anthracene	10.2	UD	0.33	10.2	20.4	ug/L
86-74-8	Carbazole	10.2	UD	0.45	10.2	20.4	ug/L
84-74-2	Di-n-butylphthalate	10.2	UD	4.1	10.2	20.4	ug/L
206-44-0	Fluoranthene	10.2	UD	0.82	10.2	20.4	ug/L
129-00-0	Pyrene	10.2	UD	0.41	10.2	20.4	ug/L
85-68-7	Butylbenzylphthalate	10.2	UD	0.39	10.2	20.4	ug/L
91-94-1	3,3-Dichlorobenzidine	10.2	UD	4.1	10.2	20.4	ug/L
56-55-3	Benzo(a)anthracene	10.2	UD	0.33	10.2	20.4	ug/L
218-01-9	Chrysene	10.2	UD	0.37	10.2	20.4	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	10.2	UD	0.33	10.2	20.4	ug/L
117-84-0	Di-n-octyl phthalate	10.2	UD	1	10.2	20.4	ug/L
205-99-2	Benzo(b)fluoranthene	10.2	UD	0.59	10.2	20.4	ug/L
207-08-9	Benzo(k)fluoranthene	10.2	UD	0.37	10.2	20.4	ug/L
50-32-8	Benzo(a)pyrene	10.2	UD	0.29	10.2	20.4	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	10.2	UD	0.31	10.2	20.4	ug/L
53-70-3	Dibenzo(a,h)anthracene	10.2	UD	0.86	10.2	20.4	ug/L
191-24-2	Benzo(g,h,i)perylene	10.2	UD	0.59	10.2	20.4	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/12/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-GF-18DL	SDG No.:	D5165
Lab Sample ID:	D5165-09DL	Matrix:	Water
Analytical Method:	SW8270D	% Moisture:	100
Sample Wt/Vol:	980 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
BE080837.D	2	12/17/12	12/25/12	PB67493

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
SURROGATES							
367-12-4	2-Fluorophenol	47.5		10 - 130		32%	SPK: 150
13127-88-3	Phenol-d6	23.9		10 - 130		16%	SPK: 150
4165-60-0	Nitrobenzene-d5	86.9		36 - 131		87%	SPK: 100
321-60-8	2-Fluorobiphenyl	93.5		39 - 131		94%	SPK: 100
118-79-6	2,4,6-Tribromophenol	110		25 - 155		75%	SPK: 150
1718-51-0	Terphenyl-d14	86.7		23 - 130		87%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	56061	7.51				
1146-65-2	Naphthalene-d8	218104	9.69				
15067-26-2	Acenaphthene-d10	127962	12.62				
1517-22-2	Phenanthrene-d10	220625	15.05				
1719-03-5	Chrysene-d12	228164	19.36				
1520-96-3	Perylene-d12	216793	22				

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Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/12/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	EQUIPMENTBLANK	SDG No.:	D5165
Lab Sample ID:	D5165-12	Matrix:	Water
Analytical Method:	SW8270D	% Moisture:	100
Sample Wt/Vol:	990 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
BE080801.D	1	12/17/12	12/22/12	PB67493

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
108-95-2	Phenol	5.05	U	0.21	5.05	10.1	ug/L
111-44-4	bis(2-Chloroethyl)ether	5.05	U	0.56	5.05	10.1	ug/L
95-57-8	2-Chlorophenol	5.05	U	0.55	5.05	10.1	ug/L
95-50-1	1,2-Dichlorobenzene	5.05	U	0.26	5.05	10.1	ug/L
541-73-1	1,3-Dichlorobenzene	5.05	U	0.13	5.05	10.1	ug/L
106-46-7	1,4-Dichlorobenzene	5.05	U	0.2	5.05	10.1	ug/L
95-48-7	2-Methylphenol	5.05	UQ	0.24	5.05	10.1	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	5.05	U	0.17	5.05	10.1	ug/L
65794-96-9	3+4-Methylphenols	5.05	UQ	0.38	5.05	10.1	ug/L
621-64-7	n-Nitroso-di-n-propylamine	5.05	U	0.2	5.05	10.1	ug/L
67-72-1	Hexachloroethane	5.05	U	0.25	5.05	10.1	ug/L
98-95-3	Nitrobenzene	5.05	U	0.69	5.05	10.1	ug/L
78-59-1	Isophorone	5.05	U	0.3	5.05	10.1	ug/L
88-75-5	2-Nitrophenol	5.05	U	0.53	5.05	10.1	ug/L
105-67-9	2,4-Dimethylphenol	5.05	U	0.72	5.05	10.1	ug/L
111-91-1	bis(2-Chloroethoxy)methane	5.05	U	0.56	5.05	10.1	ug/L
120-83-2	2,4-Dichlorophenol	5.05	U	0.67	5.05	10.1	ug/L
120-82-1	1,2,4-Trichlorobenzene	5.05	U	0.15	5.05	10.1	ug/L
91-20-3	Naphthalene	5.05	U	0.12	5.05	10.1	ug/L
106-47-8	4-Chloroaniline	5.05	U	2.9	5.05	10.1	ug/L
87-68-3	Hexachlorobutadiene	5.05	U	0.25	5.05	10.1	ug/L
59-50-7	4-Chloro-3-methylphenol	5.05	U	0.4	5.05	10.1	ug/L
91-57-6	2-Methylnaphthalene	5.05	U	0.32	5.05	10.1	ug/L
77-47-4	Hexachlorocyclopentadiene	5.05	U	0.24	5.05	10.1	ug/L
88-06-2	2,4,6-Trichlorophenol	5.05	U	0.57	5.05	10.1	ug/L
95-95-4	2,4,5-Trichlorophenol	5.05	U	0.4	5.05	10.1	ug/L
91-58-7	2-Chloronaphthalene	5.05	U	0.16	5.05	10.1	ug/L
88-74-4	2-Nitroaniline	5.05	U	0.49	5.05	10.1	ug/L
131-11-3	Dimethylphthalate	5.05	U	0.22	5.05	10.1	ug/L
208-96-8	Acenaphthylene	5.05	U	0.71	5.05	10.1	ug/L
606-20-2	2,6-Dinitrotoluene	5.05	U	0.32	5.05	10.1	ug/L

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Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/12/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	EQUIPMENTBLANK	SDG No.:	D5165
Lab Sample ID:	D5165-12	Matrix:	Water
Analytical Method:	SW8270D	% Moisture:	100
Sample Wt/Vol:	990 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
BE080801.D	1	12/17/12	12/22/12	PB67493

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	5.05	U	1.1	5.05	10.1	ug/L
83-32-9	Acenaphthene	5.05	U	0.21	5.05	10.1	ug/L
51-28-5	2,4-Dinitrophenol	5.05	U	2.1	5.05	10.1	ug/L
100-02-7	4-Nitrophenol	5.05	U	2	5.05	10.1	ug/L
132-64-9	Dibenzofuran	5.05	U	0.24	5.05	10.1	ug/L
121-14-2	2,4-Dinitrotoluene	5.05	U	1	5.05	10.1	ug/L
84-66-2	Diethylphthalate	5.05	U	0.38	5.05	10.1	ug/L
7005-72-3	4-Chlorophenyl-phenylether	5.05	U	0.21	5.05	10.1	ug/L
86-73-7	Fluorene	5.05	U	0.31	5.05	10.1	ug/L
100-01-6	4-Nitroaniline	5.05	U	1.4	5.05	10.1	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	5.05	U	0.75	5.05	10.1	ug/L
86-30-6	n-Nitrosodiphenylamine	5.05	U	0.61	5.05	10.1	ug/L
101-55-3	4-Bromophenyl-phenylether	5.05	U	0.23	5.05	10.1	ug/L
118-74-1	Hexachlorobenzene	5.05	U	0.18	5.05	10.1	ug/L
87-86-5	Pentachlorophenol	5.05	U	1.7	5.05	10.1	ug/L
85-01-8	Phenanthrene	5.05	U	0.26	5.05	10.1	ug/L
120-12-7	Anthracene	5.05	U	0.16	5.05	10.1	ug/L
86-74-8	Carbazole	5.05	U	0.22	5.05	10.1	ug/L
84-74-2	Di-n-butylphthalate	5.05	U	2	5.05	10.1	ug/L
206-44-0	Fluoranthene	5.05	U	0.4	5.05	10.1	ug/L
129-00-0	Pyrene	5.05	U	0.2	5.05	10.1	ug/L
85-68-7	Butylbenzylphthalate	5.05	U	0.19	5.05	10.1	ug/L
91-94-1	3,3-Dichlorobenzidine	5.05	U	2	5.05	10.1	ug/L
56-55-3	Benzo(a)anthracene	5.05	U	0.16	5.05	10.1	ug/L
218-01-9	Chrysene	5.05	U	0.18	5.05	10.1	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	5.05	U	0.16	5.05	10.1	ug/L
117-84-0	Di-n-octyl phthalate	5.05	U	0.52	5.05	10.1	ug/L
205-99-2	Benzo(b)fluoranthene	5.05	U	0.29	5.05	10.1	ug/L
207-08-9	Benzo(k)fluoranthene	5.05	U	0.18	5.05	10.1	ug/L
50-32-8	Benzo(a)pyrene	5.05	U	0.14	5.05	10.1	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.05	U	0.15	5.05	10.1	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.05	U	0.42	5.05	10.1	ug/L
191-24-2	Benzo(g,h,i)perylene	5.05	U	0.29	5.05	10.1	ug/L

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Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/12/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	EQUIPMENTBLANK	SDG No.:	D5165
Lab Sample ID:	D5165-12	Matrix:	Water
Analytical Method:	SW8270D	% Moisture:	100
Sample Wt/Vol:	990 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
BE080801.D	1	12/17/12	12/22/12	PB67493

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
SURROGATES							
367-12-4	2-Fluorophenol	48.2		10 - 130		32%	SPK: 150
13127-88-3	Phenol-d6	30.7		10 - 130		20%	SPK: 150
4165-60-0	Nitrobenzene-d5	92.2		36 - 131		92%	SPK: 100
321-60-8	2-Fluorobiphenyl	94		39 - 131		94%	SPK: 100
118-79-6	2,4,6-Tribromophenol	120		25 - 155		80%	SPK: 150
1718-51-0	Terphenyl-d14	97		23 - 130		97%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	48917	7.54				
1146-65-2	Naphthalene-d8	190228	9.72				
15067-26-2	Acenaphthene-d10	118517	12.66				
1517-22-2	Phenanthrene-d10	211094	15.09				
1719-03-5	Chrysene-d12	220143	19.4				
1520-96-3	Perylene-d12	207287	22.07				

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Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/13/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-GF-15	SDG No.:	D5165
Lab Sample ID:	D5165-13	Matrix:	Water
Analytical Method:	SW8270D	% Moisture:	100
Sample Wt/Vol:	980 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
BE080795.D	1	12/17/12	12/22/12	PB67493

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
108-95-2	Phenol	5.1	U	0.21	5.1	10.2	ug/L
111-44-4	bis(2-Chloroethyl)ether	5.1	U	0.56	5.1	10.2	ug/L
95-57-8	2-Chlorophenol	5.1	U	0.55	5.1	10.2	ug/L
95-50-1	1,2-Dichlorobenzene	5.1	U	0.27	5.1	10.2	ug/L
541-73-1	1,3-Dichlorobenzene	5.1	U	0.13	5.1	10.2	ug/L
106-46-7	1,4-Dichlorobenzene	5.1	U	0.2	5.1	10.2	ug/L
95-48-7	2-Methylphenol	5.1	UQ	0.24	5.1	10.2	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	5.1	U	0.17	5.1	10.2	ug/L
65794-96-9	3+4-Methylphenols	5.1	UQ	0.39	5.1	10.2	ug/L
621-64-7	n-Nitroso-di-n-propylamine	5.1	U	0.2	5.1	10.2	ug/L
67-72-1	Hexachloroethane	5.1	U	0.26	5.1	10.2	ug/L
98-95-3	Nitrobenzene	5.1	U	0.69	5.1	10.2	ug/L
78-59-1	Isophorone	5.1	U	0.31	5.1	10.2	ug/L
88-75-5	2-Nitrophenol	5.1	U	0.53	5.1	10.2	ug/L
105-67-9	2,4-Dimethylphenol	5.1	U	0.72	5.1	10.2	ug/L
111-91-1	bis(2-Chloroethoxy)methane	5.1	U	0.56	5.1	10.2	ug/L
120-83-2	2,4-Dichlorophenol	5.1	U	0.67	5.1	10.2	ug/L
120-82-1	1,2,4-Trichlorobenzene	5.1	U	0.15	5.1	10.2	ug/L
91-20-3	Naphthalene	5.1	U	0.12	5.1	10.2	ug/L
106-47-8	4-Chloroaniline	5.1	U	2.9	5.1	10.2	ug/L
87-68-3	Hexachlorobutadiene	5.1	U	0.26	5.1	10.2	ug/L
59-50-7	4-Chloro-3-methylphenol	5.1	U	0.41	5.1	10.2	ug/L
91-57-6	2-Methylnaphthalene	5.8	J	0.33	5.1	10.2	ug/L
77-47-4	Hexachlorocyclopentadiene	5.1	U	0.24	5.1	10.2	ug/L
88-06-2	2,4,6-Trichlorophenol	5.1	U	0.57	5.1	10.2	ug/L
95-95-4	2,4,5-Trichlorophenol	5.1	U	0.41	5.1	10.2	ug/L
91-58-7	2-Chloronaphthalene	5.1	U	0.16	5.1	10.2	ug/L
88-74-4	2-Nitroaniline	5.1	U	0.5	5.1	10.2	ug/L
131-11-3	Dimethylphthalate	5.1	U	0.22	5.1	10.2	ug/L
208-96-8	Acenaphthylene	5.1	U	0.71	5.1	10.2	ug/L
606-20-2	2,6-Dinitrotoluene	5.1	U	0.33	5.1	10.2	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/13/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-GF-15	SDG No.:	D5165
Lab Sample ID:	D5165-13	Matrix:	Water
Analytical Method:	SW8270D	% Moisture:	100
Sample Wt/Vol:	980 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
BE080795.D	1	12/17/12	12/22/12	PB67493

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	5.1	U	1.1	5.1	10.2	ug/L
83-32-9	Acenaphthene	5.1	U	0.21	5.1	10.2	ug/L
51-28-5	2,4-Dinitrophenol	5.1	U	2.1	5.1	10.2	ug/L
100-02-7	4-Nitrophenol	5.1	U	2	5.1	10.2	ug/L
132-64-9	Dibenzofuran	5.1	U	0.24	5.1	10.2	ug/L
121-14-2	2,4-Dinitrotoluene	5.1	U	1.1	5.1	10.2	ug/L
84-66-2	Diethylphthalate	5.1	U	0.39	5.1	10.2	ug/L
7005-72-3	4-Chlorophenyl-phenylether	5.1	U	0.21	5.1	10.2	ug/L
86-73-7	Fluorene	5.1	U	0.32	5.1	10.2	ug/L
100-01-6	4-Nitroaniline	5.1	U	1.4	5.1	10.2	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	5.1	U	0.76	5.1	10.2	ug/L
86-30-6	n-Nitrosodiphenylamine	5.1	U	0.61	5.1	10.2	ug/L
101-55-3	4-Bromophenyl-phenylether	5.1	U	0.23	5.1	10.2	ug/L
118-74-1	Hexachlorobenzene	5.1	U	0.18	5.1	10.2	ug/L
87-86-5	Pentachlorophenol	5.1	U	1.8	5.1	10.2	ug/L
85-01-8	Phenanthrene	5.1	U	0.27	5.1	10.2	ug/L
120-12-7	Anthracene	5.1	U	0.16	5.1	10.2	ug/L
86-74-8	Carbazole	5.1	U	0.22	5.1	10.2	ug/L
84-74-2	Di-n-butylphthalate	5.1	U	2	5.1	10.2	ug/L
206-44-0	Fluoranthene	5.1	U	0.41	5.1	10.2	ug/L
129-00-0	Pyrene	5.1	U	0.2	5.1	10.2	ug/L
85-68-7	Butylbenzylphthalate	5.1	U	0.19	5.1	10.2	ug/L
91-94-1	3,3-Dichlorobenzidine	5.1	U	2	5.1	10.2	ug/L
56-55-3	Benzo(a)anthracene	5.1	U	0.16	5.1	10.2	ug/L
218-01-9	Chrysene	5.1	U	0.18	5.1	10.2	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	5.1	U	0.16	5.1	10.2	ug/L
117-84-0	Di-n-octyl phthalate	5.1	U	0.52	5.1	10.2	ug/L
205-99-2	Benzo(b)fluoranthene	5.1	U	0.3	5.1	10.2	ug/L
207-08-9	Benzo(k)fluoranthene	5.1	U	0.18	5.1	10.2	ug/L
50-32-8	Benzo(a)pyrene	5.1	U	0.14	5.1	10.2	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.1	U	0.15	5.1	10.2	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.1	U	0.43	5.1	10.2	ug/L
191-24-2	Benzo(g,h,i)perylene	5.1	U	0.3	5.1	10.2	ug/L

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Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/13/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-GF-15	SDG No.:	D5165
Lab Sample ID:	D5165-13	Matrix:	Water
Analytical Method:	SW8270D	% Moisture:	100
Sample Wt/Vol:	980 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
BE080795.D	1	12/17/12	12/22/12	PB67493

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
SURROGATES							
367-12-4	2-Fluorophenol	55.8		10 - 130		37%	SPK: 150
13127-88-3	Phenol-d6	31		10 - 130		21%	SPK: 150
4165-60-0	Nitrobenzene-d5	92		36 - 131		92%	SPK: 100
321-60-8	2-Fluorobiphenyl	95.8		39 - 131		96%	SPK: 100
118-79-6	2,4,6-Tribromophenol	120		25 - 155		83%	SPK: 150
1718-51-0	Terphenyl-d14	95.7		23 - 130		96%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	47384	7.54				
1146-65-2	Naphthalene-d8	196767	9.72				
15067-26-2	Acenaphthene-d10	117428	12.65				
1517-22-2	Phenanthrene-d10	215892	15.09				
1719-03-5	Chrysene-d12	227955	19.4				
1520-96-3	Perylene-d12	216244	22.07				

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Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/13/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-GF-17	SDG No.:	D5165
Lab Sample ID:	D5165-14	Matrix:	Water
Analytical Method:	SW8270D	% Moisture:	100
Sample Wt/Vol:	990 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
BE080805.D	1	12/17/12	12/23/12	PB67493

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
108-95-2	Phenol	5.05	U	0.21	5.05	10.1	ug/L
111-44-4	bis(2-Chloroethyl)ether	5.05	U	0.56	5.05	10.1	ug/L
95-57-8	2-Chlorophenol	5.05	U	0.55	5.05	10.1	ug/L
95-50-1	1,2-Dichlorobenzene	5.05	U	0.26	5.05	10.1	ug/L
541-73-1	1,3-Dichlorobenzene	5.05	U	0.13	5.05	10.1	ug/L
106-46-7	1,4-Dichlorobenzene	5.05	U	0.2	5.05	10.1	ug/L
95-48-7	2-Methylphenol	5.05	UQ	0.24	5.05	10.1	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	5.05	U	0.17	5.05	10.1	ug/L
65794-96-9	3+4-Methylphenols	5.05	UQ	0.38	5.05	10.1	ug/L
621-64-7	n-Nitroso-di-n-propylamine	5.05	U	0.2	5.05	10.1	ug/L
67-72-1	Hexachloroethane	5.05	U	0.25	5.05	10.1	ug/L
98-95-3	Nitrobenzene	5.05	U	0.69	5.05	10.1	ug/L
78-59-1	Isophorone	5.05	U	0.3	5.05	10.1	ug/L
88-75-5	2-Nitrophenol	5.05	U	0.53	5.05	10.1	ug/L
105-67-9	2,4-Dimethylphenol	5.05	U	0.72	5.05	10.1	ug/L
111-91-1	bis(2-Chloroethoxy)methane	5.05	U	0.56	5.05	10.1	ug/L
120-83-2	2,4-Dichlorophenol	5.05	U	0.67	5.05	10.1	ug/L
120-82-1	1,2,4-Trichlorobenzene	5.05	U	0.15	5.05	10.1	ug/L
91-20-3	Naphthalene	5.05	U	0.12	5.05	10.1	ug/L
106-47-8	4-Chloroaniline	5.05	U	2.9	5.05	10.1	ug/L
87-68-3	Hexachlorobutadiene	5.05	U	0.25	5.05	10.1	ug/L
59-50-7	4-Chloro-3-methylphenol	5.05	U	0.4	5.05	10.1	ug/L
91-57-6	2-Methylnaphthalene	5.05	U	0.32	5.05	10.1	ug/L
77-47-4	Hexachlorocyclopentadiene	5.05	U	0.24	5.05	10.1	ug/L
88-06-2	2,4,6-Trichlorophenol	5.05	U	0.57	5.05	10.1	ug/L
95-95-4	2,4,5-Trichlorophenol	5.05	U	0.4	5.05	10.1	ug/L
91-58-7	2-Chloronaphthalene	5.05	U	0.16	5.05	10.1	ug/L
88-74-4	2-Nitroaniline	5.05	U	0.49	5.05	10.1	ug/L
131-11-3	Dimethylphthalate	5.05	U	0.22	5.05	10.1	ug/L
208-96-8	Acenaphthylene	5.05	U	0.71	5.05	10.1	ug/L
606-20-2	2,6-Dinitrotoluene	5.05	U	0.32	5.05	10.1	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/13/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-GF-17	SDG No.:	D5165
Lab Sample ID:	D5165-14	Matrix:	Water
Analytical Method:	SW8270D	% Moisture:	100
Sample Wt/Vol:	990 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
BE080805.D	1	12/17/12	12/23/12	PB67493

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	5.05	U	1.1	5.05	10.1	ug/L
83-32-9	Acenaphthene	5.05	U	0.21	5.05	10.1	ug/L
51-28-5	2,4-Dinitrophenol	5.05	U	2.1	5.05	10.1	ug/L
100-02-7	4-Nitrophenol	5.05	U	2	5.05	10.1	ug/L
132-64-9	Dibenzofuran	5.05	U	0.24	5.05	10.1	ug/L
121-14-2	2,4-Dinitrotoluene	5.05	U	1	5.05	10.1	ug/L
84-66-2	Diethylphthalate	5.05	U	0.38	5.05	10.1	ug/L
7005-72-3	4-Chlorophenyl-phenylether	5.05	U	0.21	5.05	10.1	ug/L
86-73-7	Fluorene	5.05	U	0.31	5.05	10.1	ug/L
100-01-6	4-Nitroaniline	5.05	U	1.4	5.05	10.1	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	5.05	U	0.75	5.05	10.1	ug/L
86-30-6	n-Nitrosodiphenylamine	5.05	U	0.61	5.05	10.1	ug/L
101-55-3	4-Bromophenyl-phenylether	5.05	U	0.23	5.05	10.1	ug/L
118-74-1	Hexachlorobenzene	5.05	U	0.18	5.05	10.1	ug/L
87-86-5	Pentachlorophenol	5.05	U	1.7	5.05	10.1	ug/L
85-01-8	Phenanthrene	5.05	U	0.26	5.05	10.1	ug/L
120-12-7	Anthracene	5.05	U	0.16	5.05	10.1	ug/L
86-74-8	Carbazole	5.05	U	0.22	5.05	10.1	ug/L
84-74-2	Di-n-butylphthalate	5.05	U	2	5.05	10.1	ug/L
206-44-0	Fluoranthene	5.05	U	0.4	5.05	10.1	ug/L
129-00-0	Pyrene	5.05	U	0.2	5.05	10.1	ug/L
85-68-7	Butylbenzylphthalate	5.05	U	0.19	5.05	10.1	ug/L
91-94-1	3,3-Dichlorobenzidine	5.05	U	2	5.05	10.1	ug/L
56-55-3	Benzo(a)anthracene	5.05	U	0.16	5.05	10.1	ug/L
218-01-9	Chrysene	5.05	U	0.18	5.05	10.1	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	5.05	U	0.16	5.05	10.1	ug/L
117-84-0	Di-n-octyl phthalate	5.05	U	0.52	5.05	10.1	ug/L
205-99-2	Benzo(b)fluoranthene	5.05	U	0.29	5.05	10.1	ug/L
207-08-9	Benzo(k)fluoranthene	5.05	U	0.18	5.05	10.1	ug/L
50-32-8	Benzo(a)pyrene	5.05	U	0.14	5.05	10.1	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.05	U	0.15	5.05	10.1	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.05	U	0.42	5.05	10.1	ug/L
191-24-2	Benzo(g,h,i)perylene	5.05	U	0.29	5.05	10.1	ug/L

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Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/13/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-GF-17	SDG No.:	D5165
Lab Sample ID:	D5165-14	Matrix:	Water
Analytical Method:	SW8270D	% Moisture:	100
Sample Wt/Vol:	990 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
BE080805.D	1	12/17/12	12/23/12	PB67493

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
SURROGATES							
367-12-4	2-Fluorophenol	49.3		10 - 130		33%	SPK: 150
13127-88-3	Phenol-d6	31.3		10 - 130		21%	SPK: 150
4165-60-0	Nitrobenzene-d5	91.7		36 - 131		92%	SPK: 100
321-60-8	2-Fluorobiphenyl	94.1		39 - 131		94%	SPK: 100
118-79-6	2,4,6-Tribromophenol	120		25 - 155		81%	SPK: 150
1718-51-0	Terphenyl-d14	91.3		23 - 130		91%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	48650	7.54				
1146-65-2	Naphthalene-d8	191533	9.72				
15067-26-2	Acenaphthene-d10	118329	12.65				
1517-22-2	Phenanthrene-d10	211831	15.09				
1719-03-5	Chrysene-d12	218156	19.4				
1520-96-3	Perylene-d12	209378	22.07				

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Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/13/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-1-60	SDG No.:	D5165
Lab Sample ID:	D5165-15	Matrix:	Water
Analytical Method:	SW8270D	% Moisture:	100
Sample Wt/Vol:	990 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
BE080796.D	1	12/17/12	12/22/12	PB67493

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
108-95-2	Phenol	5.05	U	0.21	5.05	10.1	ug/L
111-44-4	bis(2-Chloroethyl)ether	5.05	U	0.56	5.05	10.1	ug/L
95-57-8	2-Chlorophenol	5.05	U	0.55	5.05	10.1	ug/L
95-50-1	1,2-Dichlorobenzene	5.05	U	0.26	5.05	10.1	ug/L
541-73-1	1,3-Dichlorobenzene	5.05	U	0.13	5.05	10.1	ug/L
106-46-7	1,4-Dichlorobenzene	5.05	U	0.2	5.05	10.1	ug/L
95-48-7	2-Methylphenol	5.05	UQ	0.24	5.05	10.1	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	5.05	U	0.17	5.05	10.1	ug/L
65794-96-9	3+4-Methylphenols	5.05	UQ	0.38	5.05	10.1	ug/L
621-64-7	n-Nitroso-di-n-propylamine	5.05	U	0.2	5.05	10.1	ug/L
67-72-1	Hexachloroethane	5.05	U	0.25	5.05	10.1	ug/L
98-95-3	Nitrobenzene	5.05	U	0.69	5.05	10.1	ug/L
78-59-1	Isophorone	5.05	U	0.3	5.05	10.1	ug/L
88-75-5	2-Nitrophenol	5.05	U	0.53	5.05	10.1	ug/L
105-67-9	2,4-Dimethylphenol	5.05	U	0.72	5.05	10.1	ug/L
111-91-1	bis(2-Chloroethoxy)methane	5.05	U	0.56	5.05	10.1	ug/L
120-83-2	2,4-Dichlorophenol	5.05	U	0.67	5.05	10.1	ug/L
120-82-1	1,2,4-Trichlorobenzene	5.05	U	0.15	5.05	10.1	ug/L
91-20-3	Naphthalene	5.05	U	0.12	5.05	10.1	ug/L
106-47-8	4-Chloroaniline	5.05	U	2.9	5.05	10.1	ug/L
87-68-3	Hexachlorobutadiene	5.05	U	0.25	5.05	10.1	ug/L
59-50-7	4-Chloro-3-methylphenol	5.05	U	0.4	5.05	10.1	ug/L
91-57-6	2-Methylnaphthalene	5.05	U	0.32	5.05	10.1	ug/L
77-47-4	Hexachlorocyclopentadiene	5.05	U	0.24	5.05	10.1	ug/L
88-06-2	2,4,6-Trichlorophenol	5.05	U	0.57	5.05	10.1	ug/L
95-95-4	2,4,5-Trichlorophenol	5.05	U	0.4	5.05	10.1	ug/L
91-58-7	2-Chloronaphthalene	5.05	U	0.16	5.05	10.1	ug/L
88-74-4	2-Nitroaniline	5.05	U	0.49	5.05	10.1	ug/L
131-11-3	Dimethylphthalate	5.05	U	0.22	5.05	10.1	ug/L
208-96-8	Acenaphthylene	5.05	U	0.71	5.05	10.1	ug/L
606-20-2	2,6-Dinitrotoluene	5.05	U	0.32	5.05	10.1	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/13/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-1-60	SDG No.:	D5165
Lab Sample ID:	D5165-15	Matrix:	Water
Analytical Method:	SW8270D	% Moisture:	100
Sample Wt/Vol:	990 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
BE080796.D	1	12/17/12	12/22/12	PB67493

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	5.05	U	1.1	5.05	10.1	ug/L
83-32-9	Acenaphthene	5.05	U	0.21	5.05	10.1	ug/L
51-28-5	2,4-Dinitrophenol	5.05	U	2.1	5.05	10.1	ug/L
100-02-7	4-Nitrophenol	5.05	U	2	5.05	10.1	ug/L
132-64-9	Dibenzofuran	5.05	U	0.24	5.05	10.1	ug/L
121-14-2	2,4-Dinitrotoluene	5.05	U	1	5.05	10.1	ug/L
84-66-2	Diethylphthalate	5.05	U	0.38	5.05	10.1	ug/L
7005-72-3	4-Chlorophenyl-phenylether	5.05	U	0.21	5.05	10.1	ug/L
86-73-7	Fluorene	5.05	U	0.31	5.05	10.1	ug/L
100-01-6	4-Nitroaniline	5.05	U	1.4	5.05	10.1	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	5.05	U	0.75	5.05	10.1	ug/L
86-30-6	n-Nitrosodiphenylamine	5.05	U	0.61	5.05	10.1	ug/L
101-55-3	4-Bromophenyl-phenylether	5.05	U	0.23	5.05	10.1	ug/L
118-74-1	Hexachlorobenzene	5.05	U	0.18	5.05	10.1	ug/L
87-86-5	Pentachlorophenol	5.05	U	1.7	5.05	10.1	ug/L
85-01-8	Phenanthrene	5.05	U	0.26	5.05	10.1	ug/L
120-12-7	Anthracene	5.05	U	0.16	5.05	10.1	ug/L
86-74-8	Carbazole	5.05	U	0.22	5.05	10.1	ug/L
84-74-2	Di-n-butylphthalate	5.05	U	2	5.05	10.1	ug/L
206-44-0	Fluoranthene	5.05	U	0.4	5.05	10.1	ug/L
129-00-0	Pyrene	5.05	U	0.2	5.05	10.1	ug/L
85-68-7	Butylbenzylphthalate	5.05	U	0.19	5.05	10.1	ug/L
91-94-1	3,3-Dichlorobenzidine	5.05	U	2	5.05	10.1	ug/L
56-55-3	Benzo(a)anthracene	5.05	U	0.16	5.05	10.1	ug/L
218-01-9	Chrysene	5.05	U	0.18	5.05	10.1	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	5.05	U	0.16	5.05	10.1	ug/L
117-84-0	Di-n-octyl phthalate	5.05	U	0.52	5.05	10.1	ug/L
205-99-2	Benzo(b)fluoranthene	5.05	U	0.29	5.05	10.1	ug/L
207-08-9	Benzo(k)fluoranthene	5.05	U	0.18	5.05	10.1	ug/L
50-32-8	Benzo(a)pyrene	5.05	U	0.14	5.05	10.1	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.05	U	0.15	5.05	10.1	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.05	U	0.42	5.05	10.1	ug/L
191-24-2	Benzo(g,h,i)perylene	5.05	U	0.29	5.05	10.1	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/13/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-1-60	SDG No.:	D5165
Lab Sample ID:	D5165-15	Matrix:	Water
Analytical Method:	SW8270D	% Moisture:	100
Sample Wt/Vol:	990 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
BE080796.D	1	12/17/12	12/22/12	PB67493

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
SURROGATES							
367-12-4	2-Fluorophenol	49.7		10 - 130		33%	SPK: 150
13127-88-3	Phenol-d6	25.9		10 - 130		17%	SPK: 150
4165-60-0	Nitrobenzene-d5	90.2		36 - 131		90%	SPK: 100
321-60-8	2-Fluorobiphenyl	94.6		39 - 131		95%	SPK: 100
118-79-6	2,4,6-Tribromophenol	120		25 - 155		83%	SPK: 150
1718-51-0	Terphenyl-d14	85.6		23 - 130		86%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	49221	7.54				
1146-65-2	Naphthalene-d8	191500	9.72				
15067-26-2	Acenaphthene-d10	119703	12.65				
1517-22-2	Phenanthrene-d10	215844	15.09				
1719-03-5	Chrysene-d12	225418	19.4				
1520-96-3	Perylene-d12	202082	22.07				

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/13/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	DMW-5	SDG No.:	D5165
Lab Sample ID:	D5165-18	Matrix:	Water
Analytical Method:	SW8270D	% Moisture:	100
Sample Wt/Vol:	990 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
BE080809.D	1	12/17/12	12/23/12	PB67493

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
108-95-2	Phenol	5.05	U	0.21	5.05	10.1	ug/L
111-44-4	bis(2-Chloroethyl)ether	5.05	U	0.56	5.05	10.1	ug/L
95-57-8	2-Chlorophenol	5.05	U	0.55	5.05	10.1	ug/L
95-50-1	1,2-Dichlorobenzene	5.05	U	0.26	5.05	10.1	ug/L
541-73-1	1,3-Dichlorobenzene	5.05	U	0.13	5.05	10.1	ug/L
106-46-7	1,4-Dichlorobenzene	5.05	U	0.2	5.05	10.1	ug/L
95-48-7	2-Methylphenol	5.05	UQ	0.24	5.05	10.1	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	5.05	U	0.17	5.05	10.1	ug/L
65794-96-9	3+4-Methylphenols	5.05	UQ	0.38	5.05	10.1	ug/L
621-64-7	n-Nitroso-di-n-propylamine	5.05	U	0.2	5.05	10.1	ug/L
67-72-1	Hexachloroethane	5.05	U	0.25	5.05	10.1	ug/L
98-95-3	Nitrobenzene	5.05	U	0.69	5.05	10.1	ug/L
78-59-1	Isophorone	5.05	U	0.3	5.05	10.1	ug/L
88-75-5	2-Nitrophenol	5.05	U	0.53	5.05	10.1	ug/L
105-67-9	2,4-Dimethylphenol	5.05	U	0.72	5.05	10.1	ug/L
111-91-1	bis(2-Chloroethoxy)methane	5.05	U	0.56	5.05	10.1	ug/L
120-83-2	2,4-Dichlorophenol	5.05	U	0.67	5.05	10.1	ug/L
120-82-1	1,2,4-Trichlorobenzene	5.05	U	0.15	5.05	10.1	ug/L
91-20-3	Naphthalene	5.05	U	0.12	5.05	10.1	ug/L
106-47-8	4-Chloroaniline	5.05	U	2.9	5.05	10.1	ug/L
87-68-3	Hexachlorobutadiene	5.05	U	0.25	5.05	10.1	ug/L
59-50-7	4-Chloro-3-methylphenol	5.05	U	0.4	5.05	10.1	ug/L
91-57-6	2-Methylnaphthalene	5.05	U	0.32	5.05	10.1	ug/L
77-47-4	Hexachlorocyclopentadiene	5.05	U	0.24	5.05	10.1	ug/L
88-06-2	2,4,6-Trichlorophenol	5.05	U	0.57	5.05	10.1	ug/L
95-95-4	2,4,5-Trichlorophenol	5.05	U	0.4	5.05	10.1	ug/L
91-58-7	2-Chloronaphthalene	5.05	U	0.16	5.05	10.1	ug/L
88-74-4	2-Nitroaniline	5.05	U	0.49	5.05	10.1	ug/L
131-11-3	Dimethylphthalate	5.05	U	0.22	5.05	10.1	ug/L
208-96-8	Acenaphthylene	5.05	U	0.71	5.05	10.1	ug/L
606-20-2	2,6-Dinitrotoluene	5.05	U	0.32	5.05	10.1	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/13/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	DMW-5	SDG No.:	D5165
Lab Sample ID:	D5165-18	Matrix:	Water
Analytical Method:	SW8270D	% Moisture:	100
Sample Wt/Vol:	990 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
BE080809.D	1	12/17/12	12/23/12	PB67493

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	5.05	U	1.1	5.05	10.1	ug/L
83-32-9	Acenaphthene	5.05	U	0.21	5.05	10.1	ug/L
51-28-5	2,4-Dinitrophenol	5.05	U	2.1	5.05	10.1	ug/L
100-02-7	4-Nitrophenol	5.05	U	2	5.05	10.1	ug/L
132-64-9	Dibenzofuran	5.05	U	0.24	5.05	10.1	ug/L
121-14-2	2,4-Dinitrotoluene	5.05	U	1	5.05	10.1	ug/L
84-66-2	Diethylphthalate	5.05	U	0.38	5.05	10.1	ug/L
7005-72-3	4-Chlorophenyl-phenylether	5.05	U	0.21	5.05	10.1	ug/L
86-73-7	Fluorene	5.05	U	0.31	5.05	10.1	ug/L
100-01-6	4-Nitroaniline	5.05	U	1.4	5.05	10.1	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	5.05	U	0.75	5.05	10.1	ug/L
86-30-6	n-Nitrosodiphenylamine	5.05	U	0.61	5.05	10.1	ug/L
101-55-3	4-Bromophenyl-phenylether	5.05	U	0.23	5.05	10.1	ug/L
118-74-1	Hexachlorobenzene	5.05	U	0.18	5.05	10.1	ug/L
87-86-5	Pentachlorophenol	5.05	U	1.7	5.05	10.1	ug/L
85-01-8	Phenanthrene	5.05	U	0.26	5.05	10.1	ug/L
120-12-7	Anthracene	5.05	U	0.16	5.05	10.1	ug/L
86-74-8	Carbazole	5.05	U	0.22	5.05	10.1	ug/L
84-74-2	Di-n-butylphthalate	5.05	U	2	5.05	10.1	ug/L
206-44-0	Fluoranthene	5.05	U	0.4	5.05	10.1	ug/L
129-00-0	Pyrene	5.05	U	0.2	5.05	10.1	ug/L
85-68-7	Butylbenzylphthalate	5.05	U	0.19	5.05	10.1	ug/L
91-94-1	3,3-Dichlorobenzidine	5.05	U	2	5.05	10.1	ug/L
56-55-3	Benzo(a)anthracene	5.05	U	0.16	5.05	10.1	ug/L
218-01-9	Chrysene	5.05	U	0.18	5.05	10.1	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	5.05	U	0.16	5.05	10.1	ug/L
117-84-0	Di-n-octyl phthalate	5.05	U	0.52	5.05	10.1	ug/L
205-99-2	Benzo(b)fluoranthene	5.05	U	0.29	5.05	10.1	ug/L
207-08-9	Benzo(k)fluoranthene	5.05	U	0.18	5.05	10.1	ug/L
50-32-8	Benzo(a)pyrene	5.05	U	0.14	5.05	10.1	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.05	U	0.15	5.05	10.1	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.05	U	0.42	5.05	10.1	ug/L
191-24-2	Benzo(g,h,i)perylene	5.05	U	0.29	5.05	10.1	ug/L

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Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/13/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	DMW-5	SDG No.:	D5165
Lab Sample ID:	D5165-18	Matrix:	Water
Analytical Method:	SW8270D	% Moisture:	100
Sample Wt/Vol:	990 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
BE080809.D	1	12/17/12	12/23/12	PB67493

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
SURROGATES							
367-12-4	2-Fluorophenol	48.4		10 - 130		32%	SPK: 150
13127-88-3	Phenol-d6	29.7		10 - 130		20%	SPK: 150
4165-60-0	Nitrobenzene-d5	88.5		36 - 131		89%	SPK: 100
321-60-8	2-Fluorobiphenyl	96		39 - 131		96%	SPK: 100
118-79-6	2,4,6-Tribromophenol	120		25 - 155		77%	SPK: 150
1718-51-0	Terphenyl-d14	81.5		23 - 130		81%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	49394	7.54				
1146-65-2	Naphthalene-d8	198167	9.72				
15067-26-2	Acenaphthene-d10	115875	12.65				
1517-22-2	Phenanthrene-d10	204321	15.09				
1719-03-5	Chrysene-d12	196005	19.4				
1520-96-3	Perylene-d12	192549	22.07				

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Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/13/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	EQUIPMENTBLANK	SDG No.:	D5165
Lab Sample ID:	D5165-19	Matrix:	Water
Analytical Method:	SW8270D	% Moisture:	100
Sample Wt/Vol:	910 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
BG008974.D	1	12/17/12	12/23/12	PB67493

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
108-95-2	Phenol	5.5	U	0.23	5.5	11	ug/L
111-44-4	bis(2-Chloroethyl)ether	5.5	U	0.6	5.5	11	ug/L
95-57-8	2-Chlorophenol	5.5	U	0.59	5.5	11	ug/L
95-50-1	1,2-Dichlorobenzene	5.5	U	0.29	5.5	11	ug/L
541-73-1	1,3-Dichlorobenzene	5.5	U	0.14	5.5	11	ug/L
106-46-7	1,4-Dichlorobenzene	5.5	U	0.22	5.5	11	ug/L
95-48-7	2-Methylphenol	5.5	UQ	0.26	5.5	11	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	5.5	U	0.19	5.5	11	ug/L
65794-96-9	3+4-Methylphenols	5.5	UQ	0.42	5.5	11	ug/L
621-64-7	n-Nitroso-di-n-propylamine	5.5	U	0.22	5.5	11	ug/L
67-72-1	Hexachloroethane	5.5	U	0.27	5.5	11	ug/L
98-95-3	Nitrobenzene	5.5	U	0.75	5.5	11	ug/L
78-59-1	Isophorone	5.5	U	0.33	5.5	11	ug/L
88-75-5	2-Nitrophenol	5.5	U	0.57	5.5	11	ug/L
105-67-9	2,4-Dimethylphenol	5.5	U	0.78	5.5	11	ug/L
111-91-1	bis(2-Chloroethoxy)methane	5.5	U	0.6	5.5	11	ug/L
120-83-2	2,4-Dichlorophenol	5.5	U	0.73	5.5	11	ug/L
120-82-1	1,2,4-Trichlorobenzene	5.5	U	0.16	5.5	11	ug/L
91-20-3	Naphthalene	5.5	U	0.13	5.5	11	ug/L
106-47-8	4-Chloroaniline	5.5	U	3.1	5.5	11	ug/L
87-68-3	Hexachlorobutadiene	5.5	U	0.27	5.5	11	ug/L
59-50-7	4-Chloro-3-methylphenol	5.5	U	0.44	5.5	11	ug/L
91-57-6	2-Methylnaphthalene	5.5	U	0.35	5.5	11	ug/L
77-47-4	Hexachlorocyclopentadiene	5.5	U	0.26	5.5	11	ug/L
88-06-2	2,4,6-Trichlorophenol	5.5	U	0.62	5.5	11	ug/L
95-95-4	2,4,5-Trichlorophenol	5.5	U	0.44	5.5	11	ug/L
91-58-7	2-Chloronaphthalene	5.5	U	0.18	5.5	11	ug/L
88-74-4	2-Nitroaniline	5.5	U	0.54	5.5	11	ug/L
131-11-3	Dimethylphthalate	5.5	U	0.24	5.5	11	ug/L
208-96-8	Acenaphthylene	5.5	U	0.77	5.5	11	ug/L
606-20-2	2,6-Dinitrotoluene	5.5	U	0.35	5.5	11	ug/L

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Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/13/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	EQUIPMENTBLANK	SDG No.:	D5165
Lab Sample ID:	D5165-19	Matrix:	Water
Analytical Method:	SW8270D	% Moisture:	100
Sample Wt/Vol:	910 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
BG008974.D	1	12/17/12	12/23/12	PB67493

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	5.5	U	1.2	5.5	11	ug/L
83-32-9	Acenaphthene	5.5	U	0.23	5.5	11	ug/L
51-28-5	2,4-Dinitrophenol	5.5	U	2.3	5.5	11	ug/L
100-02-7	4-Nitrophenol	5.5	U	2.2	5.5	11	ug/L
132-64-9	Dibenzofuran	5.5	U	0.26	5.5	11	ug/L
121-14-2	2,4-Dinitrotoluene	5.5	U	1.1	5.5	11	ug/L
84-66-2	Diethylphthalate	5.5	U	0.42	5.5	11	ug/L
7005-72-3	4-Chlorophenyl-phenylether	5.5	U	0.23	5.5	11	ug/L
86-73-7	Fluorene	5.5	U	0.34	5.5	11	ug/L
100-01-6	4-Nitroaniline	5.5	U	1.5	5.5	11	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	5.5	U	0.81	5.5	11	ug/L
86-30-6	n-Nitrosodiphenylamine	5.5	U	0.66	5.5	11	ug/L
101-55-3	4-Bromophenyl-phenylether	5.5	U	0.25	5.5	11	ug/L
118-74-1	Hexachlorobenzene	5.5	U	0.2	5.5	11	ug/L
87-86-5	Pentachlorophenol	5.5	U	1.9	5.5	11	ug/L
85-01-8	Phenanthrene	5.5	U	0.29	5.5	11	ug/L
120-12-7	Anthracene	5.5	U	0.18	5.5	11	ug/L
86-74-8	Carbazole	5.5	U	0.24	5.5	11	ug/L
84-74-2	Di-n-butylphthalate	5.5	U	2.2	5.5	11	ug/L
206-44-0	Fluoranthene	5.5	U	0.44	5.5	11	ug/L
129-00-0	Pyrene	5.5	U	0.22	5.5	11	ug/L
85-68-7	Butylbenzylphthalate	5.5	U	0.21	5.5	11	ug/L
91-94-1	3,3-Dichlorobenzidine	5.5	U	2.2	5.5	11	ug/L
56-55-3	Benzo(a)anthracene	5.5	U	0.18	5.5	11	ug/L
218-01-9	Chrysene	5.5	U	0.2	5.5	11	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	5.5	U	0.18	5.5	11	ug/L
117-84-0	Di-n-octyl phthalate	5.5	U	0.56	5.5	11	ug/L
205-99-2	Benzo(b)fluoranthene	5.5	U	0.32	5.5	11	ug/L
207-08-9	Benzo(k)fluoranthene	5.5	U	0.2	5.5	11	ug/L
50-32-8	Benzo(a)pyrene	5.5	U	0.15	5.5	11	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.5	U	0.16	5.5	11	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.5	U	0.46	5.5	11	ug/L
191-24-2	Benzo(g,h,i)perylene	5.5	U	0.32	5.5	11	ug/L

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Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/13/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	EQUIPMENTBLANK	SDG No.:	D5165
Lab Sample ID:	D5165-19	Matrix:	Water
Analytical Method:	SW8270D	% Moisture:	100
Sample Wt/Vol:	910 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
BG008974.D	1	12/17/12	12/23/12	PB67493

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
SURROGATES							
367-12-4	2-Fluorophenol	53.7		10 - 130		36%	SPK: 150
13127-88-3	Phenol-d6	32.1		10 - 130		21%	SPK: 150
4165-60-0	Nitrobenzene-d5	86.6		36 - 131		87%	SPK: 100
321-60-8	2-Fluorobiphenyl	95.4		39 - 131		95%	SPK: 100
118-79-6	2,4,6-Tribromophenol	140		25 - 155		92%	SPK: 150
1718-51-0	Terphenyl-d14	110		23 - 130		107%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	145269	8.64				
1146-65-2	Naphthalene-d8	511522	10.81				
15067-26-2	Acenaphthene-d10	333979	13.79				
1517-22-2	Phenanthrene-d10	624484	16.27				
1719-03-5	Chrysene-d12	628144	20.76				
1520-96-3	Perylene-d12	516037	24.55				

QC SUMMARY

Surrogate Summary

SW-846

SDG No.: D5165

Client: TRC Companies, Inc.

Analytical Method: 8270D

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	High
D5165-01	MW-39S	2-Fluorophenol	150	50.36	34		10	130
		Phenol-d6	150	27.29	18		10	130
		Nitrobenzene-d5	100	93.48	93		36	131
		2-Fluorobiphenyl	100	96.59	97		39	131
		2,4,6-Tribromophenol	150	119.87	80		25	155
		Terphenyl-d14	100	85.32	85		23	130
D5165-02	DUP-A	2-Fluorophenol	150	50.02	33		10	130
		Phenol-d6	150	29.62	20		10	130
		Nitrobenzene-d5	100	90.60	91		36	131
		2-Fluorobiphenyl	100	97.19	97		39	131
		2,4,6-Tribromophenol	150	122.26	82		25	155
		Terphenyl-d14	100	83.04	83		23	130
D5165-03	MW-35S	2-Fluorophenol	150	52.27	35		10	130
		Phenol-d6	150	34.68	23		10	130
		Nitrobenzene-d5	100	90.57	91		36	131
		2-Fluorobiphenyl	100	99.35	99		39	131
		2,4,6-Tribromophenol	150	120.87	81		25	155
		Terphenyl-d14	100	79.18	79		23	130
D5165-04	MW-GF-6	2-Fluorophenol	150	51.32	34		10	130
		Phenol-d6	150	28.80	19		10	130
		Nitrobenzene-d5	100	90.13	90		36	131
		2-Fluorobiphenyl	100	95.09	95		39	131
		2,4,6-Tribromophenol	150	117.84	79		25	155
		Terphenyl-d14	100	90.35	90		23	130
D5165-05	MW-GF-9	2-Fluorophenol	150	51.49	34		10	130
		Phenol-d6	150	34.83	23		10	130
		Nitrobenzene-d5	100	88.72	89		36	131
		2-Fluorobiphenyl	100	100.27	100		39	131
		2,4,6-Tribromophenol	150	117.43	78		25	155
		Terphenyl-d14	100	72.20	72		23	130
D5165-06	MW-34S	2-Fluorophenol	150	48.26	32		10	130
		Phenol-d6	150	28.85	19		10	130
		Nitrobenzene-d5	100	92.03	92		36	131
		2-Fluorobiphenyl	100	95.52	96		39	131
		2,4,6-Tribromophenol	150	118.36	79		25	155
		Terphenyl-d14	100	86.69	87		23	130
D5165-07	MW-GF-7	2-Fluorophenol	150	54.28	36		10	130
		Phenol-d6	150	36.13	24		10	130
		Nitrobenzene-d5	100	88.80	89		36	131
		2-Fluorobiphenyl	100	95.10	95		39	131
		2,4,6-Tribromophenol	150	117.49	78		25	155
		Terphenyl-d14	100	73.09	73		23	130
D5165-08	MW-36S	2-Fluorophenol	150	46.75	31		10	130
		Phenol-d6	150	27.79	19		10	130
		Nitrobenzene-d5	100	93.21	93		36	131
		2-Fluorobiphenyl	100	95.29	95		39	131
		2,4,6-Tribromophenol	150	112.12	75		25	155
		Terphenyl-d14	100	87.92	88		23	130
D5165-09	MW-GF-18	2-Fluorophenol	150	51.50	34		10	130
		Phenol-d6	150	30.69	20		10	130
		Nitrobenzene-d5	100	94.38	94		36	131
		2-Fluorobiphenyl	100	93.64	94		39	131

Surrogate Summary

SW-846

SDG No.: D5165

Client: TRC Companies, Inc.

Analytical Method: 8270D

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	High
D5165-09	MW-GF-18	2,4,6-Tribromophenol	150	115.74	77		25	155
		Terphenyl-d14	100	87.20	87		23	130
D5165-09DL	MW-GF-18DL	2-Fluorophenol	150	47.50	32		10	130
		Phenol-d6	150	23.90	16		10	130
		Nitrobenzene-d5	100	86.90	87		36	131
		2-Fluorobiphenyl	100	93.52	94		39	131
		2,4,6-Tribromophenol	150	112.80	75		25	155
		Terphenyl-d14	100	86.68	87		23	130
D5165-10MS	MW-GF-18MS	2-Fluorophenol	150	52.68	35		10	130
		Phenol-d6	150	34.04	23		10	130
		Nitrobenzene-d5	100	94.00	94		36	131
		2-Fluorobiphenyl	100	92.10	92		39	131
		2,4,6-Tribromophenol	150	113.03	75		25	155
		Terphenyl-d14	100	82.14	82		23	130
D5165-11MSD	MW-GF-18MSD	2-Fluorophenol	150	50.02	33		10	130
		Phenol-d6	150	30.09	20		10	130
		Nitrobenzene-d5	100	93.31	93		36	131
		2-Fluorobiphenyl	100	88.73	89		39	131
		2,4,6-Tribromophenol	150	108.79	73		25	155
		Terphenyl-d14	100	72.82	73		23	130
D5165-12	EQUIPMENTBLANK	2-Fluorophenol	150	48.24	32		10	130
		Phenol-d6	150	30.68	20		10	130
		Nitrobenzene-d5	100	92.20	92		36	131
		2-Fluorobiphenyl	100	93.98	94		39	131
		2,4,6-Tribromophenol	150	120.49	80		25	155
		Terphenyl-d14	100	97.02	97		23	130
D5165-13	MW-GF-15	2-Fluorophenol	150	55.76	37		10	130
		Phenol-d6	150	31.01	21		10	130
		Nitrobenzene-d5	100	92.03	92		36	131
		2-Fluorobiphenyl	100	95.81	96		39	131
		2,4,6-Tribromophenol	150	124.05	83		25	155
		Terphenyl-d14	100	95.68	96		23	130
D5165-14	MW-GF-17	2-Fluorophenol	150	49.33	33		10	130
		Phenol-d6	150	31.34	21		10	130
		Nitrobenzene-d5	100	91.71	92		36	131
		2-Fluorobiphenyl	100	94.12	94		39	131
		2,4,6-Tribromophenol	150	121.67	81		25	155
		Terphenyl-d14	100	91.31	91		23	130
D5165-15	MW-1-60	2-Fluorophenol	150	49.70	33		10	130
		Phenol-d6	150	25.85	17		10	130
		Nitrobenzene-d5	100	90.19	90		36	131
		2-Fluorobiphenyl	100	94.58	95		39	131
		2,4,6-Tribromophenol	150	123.86	83		25	155
		Terphenyl-d14	100	85.63	86		23	130
D5165-16MS	MW-1-60MS	2-Fluorophenol	150	47.86	32		10	130
		Phenol-d6	150	33.35	22		10	130
		Nitrobenzene-d5	100	91.51	92		36	131
		2-Fluorobiphenyl	100	99.08	99		39	131
		2,4,6-Tribromophenol	150	128.26	86		25	155
		Terphenyl-d14	100	87.70	88		23	130
D5165-17MSD	MW-1-60MSD	2-Fluorophenol	150	49.31	33		10	130
		Phenol-d6	150	29.95	20		10	130

Surrogate Summary

SW-846

SDG No.: D5165

Client: TRC Companies, Inc.

Analytical Method: 8270D

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
D5165-17MSD	MW-1-60MSD	Nitrobenzene-d5	100	91.45	91		36	131
		2-Fluorobiphenyl	100	97.01	97		39	131
		2,4,6-Tribromophenol	150	128.91	86		25	155
		Terphenyl-d14	100	82.09	82		23	130
D5165-18	DMW-5	2-Fluorophenol	150	48.39	32		10	130
		Phenol-d6	150	29.73	20		10	130
		Nitrobenzene-d5	100	88.52	89		36	131
		2-Fluorobiphenyl	100	95.98	96		39	131
		2,4,6-Tribromophenol	150	115.15	77		25	155
		Terphenyl-d14	100	81.45	81		23	130
D5165-19	EQUIPMENTBLANK	2-Fluorophenol	150	53.70	36		10	130
		Phenol-d6	150	32.07	21		10	130
		Nitrobenzene-d5	100	86.57	87		36	131
		2-Fluorobiphenyl	100	95.43	95		39	131
		2,4,6-Tribromophenol	150	138.49	92		25	155
		Terphenyl-d14	100	107.18	107		23	130
PB67493BL	PB67493BL	2-Fluorophenol	150	138.97	93		10	130
		Phenol-d6	150	141.30	94		10	130
		Nitrobenzene-d5	100	89.79	90		36	131
		2-Fluorobiphenyl	100	95.02	95		39	131
		2,4,6-Tribromophenol	150	123.04	82		25	155
		Terphenyl-d14	100	98.32	98		23	130
PB67493BS	PB67493BS	2-Fluorophenol	150	125.16	83		10	130
		Phenol-d6	150	132.64	88		10	130
		Nitrobenzene-d5	100	88.92	89		36	131
		2-Fluorobiphenyl	100	95.60	96		39	131
		2,4,6-Tribromophenol	150	125.19	83		25	155
		Terphenyl-d14	100	98.76	99		23	130

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Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: D5165

Client: TRC Companies, Inc.

Analytical Method: 8270D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: D5165-10MS	**Client Sample ID: MW-GF-18MS**						**DataFile: BE080793.D**				
Phenol	52.6		13.8	ug/L	26				10	130	
bis(2-Chloroethyl)ether	52.6		46.6	ug/L	89				29	141	
2-Chlorophenol	52.6		40	ug/L	76				23	127	
1,2-Dichlorobenzene	52.6		46.9	ug/L	89				61	114	
1,3-Dichlorobenzene	52.6		46.4	ug/L	88				65	106	
1,4-Dichlorobenzene	52.6		47.1	ug/L	90				19	137	
2-Methylphenol	52.6		36	ug/L	68				14	118	
2,2-oxybis(1-Chloropropane)	52.6		54.1	ug/L	103				36	141	
3+4-Methylphenols	52.6		29.5	ug/L	56				12	109	
N-Nitroso-di-n-propylamine	52.6		54.1	ug/L	103				36	147	
Hexachloroethane	52.6		48.1	ug/L	91				19	149	
Nitrobenzene	52.6		47.4	ug/L	90				30	150	
Isophorone	52.6		46.7	ug/L	89				39	146	
2-Nitrophenol	52.6		48.9	ug/L	93				30	148	
2,4-Dimethylphenol	52.6		47.5	ug/L	90				17	143	
bis(2-Chloroethoxy)methane	52.6		51.9	ug/L	99				39	143	
2,4-Dichlorophenol	52.6		46.2	ug/L	88				22	146	
1,2,4-Trichlorobenzene	52.6		46.5	ug/L	88				66	110	
Naphthalene	52.6		50.5	ug/L	96				17	157	
4-Chloroaniline	52.6		24.3	ug/L	46				10	95	
Hexachlorobutadiene	52.6		45.3	ug/L	86				20	150	
4-Chloro-3-methylphenol	52.6		42.2	ug/L	80				17	148	
2-Methylnaphthalene	52.6	89	150	ug/L	116				38	146	
Hexachlorocyclopentadiene	110		110	ug/L	100				20	153	
2,4,6-Trichlorophenol	52.6		46.9	ug/L	89				24	155	
2,4,5-Trichlorophenol	52.6		42.7	ug/L	81				26	154	
2-Chloronaphthalene	52.6		47.3	ug/L	90				41	145	
2-Nitroaniline	52.6		54.1	ug/L	103				39	151	
Dimethylphthalate	52.6		46.8	ug/L	89				42	147	
Acenaphthylene	52.6		49.2	ug/L	94				40	141	
2,6-Dinitrotoluene	52.6		41.3	ug/L	79				43	148	
3-Nitroaniline	52.6		30.7	ug/L	58				10	111	
Acenaphthene	52.6	8.3	58.6	ug/L	96				37	146	
2,4-Dinitrophenol	110		90.9	ug/L	83				14	167	
4-Nitrophenol	110		35.7	ug/L	32				10	130	
Dibenzofuran	52.6	7.5	57.3	ug/L	95				41	145	
2,4-Dinitrotoluene	52.6		43.7	ug/L	83				41	152	
Diethylphthalate	52.6		48.3	ug/L	92				41	148	
4-Chlorophenyl-phenylether	52.6		44.8	ug/L	85				38	149	
Fluorene	52.6	11.3	64.7	ug/L	102				39	144	
4-Nitroaniline	52.6		39.9	ug/L	76				27	138	
4,6-Dinitro-2-methylphenol	52.6		48.3	ug/L	92				32	175	
N-Nitrosodiphenylamine	52.6		74.4	ug/L	141				40	150	
4-Bromophenyl-phenylether	52.6		47.2	ug/L	90				42	151	
Hexachlorobenzene	52.6		43.4	ug/L	83				33	154	
Pentachlorophenol	110		100	ug/L	91				28	171	
Phenanthrene	52.6	13.5	71	ug/L	109				40	147	

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Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: D5165

Client: TRC Companies, Inc.

Analytical Method: 8270D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Anthracene	52.6		50.5	ug/L	96				41	146	
Carbazole	52.6	6.6	56.8	ug/L	95				37	154	
Di-n-butylphthalate	52.6		51.1	ug/L	97				40	151	
Fluoranthene	52.6		48.5	ug/L	92				42	146	
Pyrene	52.6		49.8	ug/L	95				41	149	
Butylbenzylphthalate	52.6		52.3	ug/L	99				39	155	
3,3-Dichlorobenzidine	52.6		29.5	ug/L	56				10	114	
Benzo(a)anthracene	52.6		50	ug/L	95				41	147	
Chrysene	52.6		50.7	ug/L	96				44	144	
bis(2-Ethylhexyl)phthalate	52.6		53.8	ug/L	102				33	160	
Di-n-octyl phthalate	52.6		56.9	ug/L	108				36	158	
Benzo(b)fluoranthene	52.6		49.2	ug/L	94				40	150	
Benzo(k)fluoranthene	52.6		50.4	ug/L	96				40	147	
Benzo(a)pyrene	52.6		53.4	ug/L	102				42	147	
Indeno(1,2,3-cd)pyrene	52.6		53.3	ug/L	101				30	166	
Dibenz(a,h)anthracene	52.6		50.7	ug/L	96				23	172	
Benzo(g,h,i)perylene	52.6		51.3	ug/L	98				27	167	

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

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: D5165

Client: TRC Companies, Inc.

Analytical Method: 8270D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: D5165-11MSD	**Client Sample ID: MW-GF-18MSD**						**DataFile: BE080794.D**				
Phenol	52.1		12.2	ug/L	23		12		10	130	20
bis(2-Chloroethyl)ether	52.1		47	ug/L	90		1		29	141	20
2-Chlorophenol	52.1		37.2	ug/L	71		7		23	127	20
1,2-Dichlorobenzene	52.1		43.8	ug/L	84		6		61	114	20
1,3-Dichlorobenzene	52.1		44	ug/L	84		5		65	106	20
1,4-Dichlorobenzene	52.1		44.7	ug/L	86		5		19	137	20
2-Methylphenol	52.1		34.5	ug/L	66		3		14	118	20
2,2-oxybis(1-Chloropropane)	52.1		49.6	ug/L	95		8		36	141	20
3+4-Methylphenols	52.1		28.6	ug/L	55		2		12	109	20
N-Nitroso-di-n-propylamine	52.1		49.8	ug/L	96		7		36	147	20
Hexachloroethane	52.1		45.1	ug/L	87		4		19	149	20
Nitrobenzene	52.1		44.8	ug/L	86		5		30	150	20
Isophorone	52.1		44	ug/L	84		6		39	146	20
2-Nitrophenol	52.1		46.2	ug/L	89		4		30	148	20
2,4-Dimethylphenol	52.1		45.3	ug/L	87		3		17	143	20
bis(2-Chloroethoxy)methane	52.1		51	ug/L	98		1		39	143	20
2,4-Dichlorophenol	52.1		45.3	ug/L	87		1		22	146	20
1,2,4-Trichlorobenzene	52.1		44.5	ug/L	85		3		66	110	20
Naphthalene	52.1		49.3	ug/L	95		1		17	157	20
4-Chloroaniline	52.1		21.6	ug/L	41		11		10	95	20
Hexachlorobutadiene	52.1		42.3	ug/L	81		6		20	150	20
4-Chloro-3-methylphenol	52.1		40.2	ug/L	77		4		17	148	20
2-Methylnaphthalene	52.1	89	140	ug/L	98		17		38	146	20
Hexachlorocyclopentadiene	100		110	ug/L	110		10		20	153	20
2,4,6-Trichlorophenol	52.1		44.6	ug/L	86		3		24	155	20
2,4,5-Trichlorophenol	52.1		39.6	ug/L	76		6		26	154	20
2-Chloronaphthalene	52.1		45	ug/L	86		5		41	145	20
2-Nitroaniline	52.1		49.1	ug/L	94		9		39	151	20
Dimethylphthalate	52.1		44.7	ug/L	86		3		42	147	20
Acenaphthylene	52.1		46.7	ug/L	90		4		40	141	20
2,6-Dinitrotoluene	52.1		38.8	ug/L	74		7		43	148	20
3-Nitroaniline	52.1		27.8	ug/L	53		9		10	111	20
Acenaphthene	52.1	8.3	55.1	ug/L	90		6		37	146	20
2,4-Dinitrophenol	100		88.1	ug/L	88		6		14	167	20
4-Nitrophenol	100		33.5	ug/L	34		6		10	130	20
Dibenzofuran	52.1	7.5	53.6	ug/L	88		8		41	145	20
2,4-Dinitrotoluene	52.1		44.3	ug/L	85		2		41	152	20
Diethylphthalate	52.1		45.7	ug/L	88		4		41	148	20
4-Chlorophenyl-phenylether	52.1		42.4	ug/L	81		5		38	149	20
Fluorene	52.1	11.3	59.1	ug/L	92		10		39	144	20
4-Nitroaniline	52.1		37.1	ug/L	71		7		27	138	20
4,6-Dinitro-2-methylphenol	52.1		51.2	ug/L	98		6		32	175	20
N-Nitrosodiphenylamine	52.1		63.8	ug/L	122		14		40	150	20
4-Bromophenyl-phenylether	52.1		45.8	ug/L	88		2		42	151	20
Hexachlorobenzene	52.1		43.6	ug/L	84		1		33	154	20
Pentachlorophenol	100		100	ug/L	100		9		28	171	20
Phenanthrene	52.1	13.5	63.8	ug/L	97		12		40	147	20

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Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: D5165

Client: TRC Companies, Inc.

Analytical Method: 8270D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Anthracene	52.1		49.4	ug/L	95		1		41	146	20
Carbazole	52.1	6.6	57.3	ug/L	97		2		37	154	20
Di-n-butylphthalate	52.1		50.4	ug/L	97		0		40	151	20
Fluoranthene	52.1		48.4	ug/L	93		1		42	146	20
Pyrene	52.1		46.5	ug/L	89		7		41	149	20
Butylbenzylphthalate	52.1		49.8	ug/L	96		3		39	155	20
3,3-Dichlorobenzidine	52.1		28.2	ug/L	54		4		10	114	20
Benzo(a)anthracene	52.1		47.1	ug/L	90		5		41	147	20
Chrysene	52.1		47.8	ug/L	92		4		44	144	20
bis(2-Ethylhexyl)phthalate	52.1		51.1	ug/L	98		4		33	160	20
Di-n-octyl phthalate	52.1		54.6	ug/L	105		3		36	158	20
Benzo(b)fluoranthene	52.1		48.4	ug/L	93		1		40	150	20
Benzo(k)fluoranthene	52.1		48.8	ug/L	94		2		40	147	20
Benzo(a)pyrene	52.1		51.1	ug/L	98		4		42	147	20
Indeno(1,2,3-cd)pyrene	52.1		50.4	ug/L	97		4		30	166	20
Dibenz(a,h)anthracene	52.1		48.8	ug/L	94		2		23	172	20
Benzo(g,h,i)perylene	52.1		49.5	ug/L	95		3		27	167	20

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: D5165

Client: TRC Companies, Inc.

Analytical Method: 8270D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: D5165-16MS	**Client Sample ID: MW-1-60MS**						**DataFile: BE080797.D**				
Phenol	51		13.1	ug/L	26				10	130	
bis(2-Chloroethyl)ether	51		47.4	ug/L	93				29	141	
2-Chlorophenol	51		38.5	ug/L	75				23	127	
1,2-Dichlorobenzene	51		43.5	ug/L	85				61	114	
1,3-Dichlorobenzene	51		43	ug/L	84				65	106	
1,4-Dichlorobenzene	51		42.2	ug/L	83				19	137	
2-Methylphenol	51		32.2	ug/L	63				14	118	
2,2-oxybis(1-Chloropropane)	51		50.1	ug/L	98				36	141	
3+4-Methylphenols	51		29.5	ug/L	58				12	109	
N-Nitroso-di-n-propylamine	51		51.2	ug/L	100				36	147	
Hexachloroethane	51		42	ug/L	82				19	149	
Nitrobenzene	51		41.6	ug/L	82				30	150	
Isophorone	51		41.4	ug/L	81				39	146	
2-Nitrophenol	51		44.8	ug/L	88				30	148	
2,4-Dimethylphenol	51		41.8	ug/L	82				17	143	
bis(2-Chloroethoxy)methane	51		45.9	ug/L	90				39	143	
2,4-Dichlorophenol	51		44.3	ug/L	87				22	146	
1,2,4-Trichlorobenzene	51		41.5	ug/L	81				66	110	
Naphthalene	51		44	ug/L	86				17	157	
4-Chloroaniline	51		25.5	ug/L	50				10	95	
Hexachlorobutadiene	51		41	ug/L	80				20	150	
4-Chloro-3-methylphenol	51		39.4	ug/L	77				17	148	
2-Methylnaphthalene	51		48.4	ug/L	95				38	146	
Hexachlorocyclopentadiene	100		110	ug/L	110				20	153	
2,4,6-Trichlorophenol	51		46.6	ug/L	91				24	155	
2,4,5-Trichlorophenol	51		40.7	ug/L	80				26	154	
2-Chloronaphthalene	51		46.4	ug/L	91				41	145	
2-Nitroaniline	51		50.5	ug/L	99				39	151	
Dimethylphthalate	51		46.9	ug/L	92				42	147	
Acenaphthylene	51		47	ug/L	92				40	141	
2,6-Dinitrotoluene	51		41.4	ug/L	81				43	148	
3-Nitroaniline	51		28.4	ug/L	56				10	111	
Acenaphthene	51		49.1	ug/L	96				37	146	
2,4-Dinitrophenol	100		87.2	ug/L	87				14	167	
4-Nitrophenol	100		28.5	ug/L	29				10	130	
Dibenzofuran	51		48.4	ug/L	95				41	145	
2,4-Dinitrotoluene	51		41.6	ug/L	82				41	152	
Diethylphthalate	51		51.1	ug/L	100				41	148	
4-Chlorophenyl-phenylether	51		46.9	ug/L	92				38	149	
Fluorene	51		49.7	ug/L	97				39	144	
4-Nitroaniline	51		43	ug/L	84				27	138	
4,6-Dinitro-2-methylphenol	51		47.2	ug/L	93				32	175	
N-Nitrosodiphenylamine	51		50.1	ug/L	98				40	150	
4-Bromophenyl-phenylether	51		46.7	ug/L	92				42	151	
Hexachlorobenzene	51		46.8	ug/L	92				33	154	
Pentachlorophenol	100		96.2	ug/L	96				28	171	
Phenanthrene	51		48.5	ug/L	95				40	147	

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Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: D5165

Client: TRC Companies, Inc.

Analytical Method: 8270D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Anthracene	51		50.6	ug/L	99				41	146	
Carbazole	51		47.9	ug/L	94				37	154	
Di-n-butylphthalate	51		49.9	ug/L	98				40	151	
Fluoranthene	51		49	ug/L	96				42	146	
Pyrene	51		51.5	ug/L	101				41	149	
Butylbenzylphthalate	51		48.6	ug/L	95				39	155	
3,3-Dichlorobenzidine	51		35.5	ug/L	70				10	114	
Benzo(a)anthracene	51		48.1	ug/L	94				41	147	
Chrysene	51		48.4	ug/L	95				44	144	
bis(2-Ethylhexyl)phthalate	51		48.1	ug/L	94				33	160	
Di-n-octyl phthalate	51		51.9	ug/L	102				36	158	
Benzo(b)fluoranthene	51		47.4	ug/L	93				40	150	
Benzo(k)fluoranthene	51		49.3	ug/L	97				40	147	
Benzo(a)pyrene	51		51.3	ug/L	101				42	147	
Indeno(1,2,3-cd)pyrene	51		48.8	ug/L	96				30	166	
Dibenz(a,h)anthracene	51		48.3	ug/L	95				23	172	
Benzo(g,h,i)perylene	51		48	ug/L	94				27	167	

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: D5165

Client: TRC Companies, Inc.

Analytical Method: 8270D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: D5165-17MSD	**Client Sample ID: MW-1-60MSD**					**DataFile: BE080798.D**					
Phenol	52.1		12.6	ug/L	24		8		10	130	20
bis(2-Chloroethyl)ether	52.1		45.3	ug/L	87		7		29	141	20
2-Chlorophenol	52.1		37.8	ug/L	73		3		23	127	20
1,2-Dichlorobenzene	52.1		42.8	ug/L	82		4		61	114	20
1,3-Dichlorobenzene	52.1		42.4	ug/L	81		4		65	106	20
1,4-Dichlorobenzene	52.1		41.7	ug/L	80		4		19	137	20
2-Methylphenol	52.1		33	ug/L	63		0		14	118	20
2,2-oxybis(1-Chloropropane)	52.1		51.6	ug/L	99		1		36	141	20
3+4-Methylphenols	52.1		28.3	ug/L	54		7		12	109	20
N-Nitroso-di-n-propylamine	52.1		51.4	ug/L	99		1		36	147	20
Hexachloroethane	52.1		43	ug/L	83		1		19	149	20
Nitrobenzene	52.1		41.8	ug/L	80		2		30	150	20
Isophorone	52.1		43.2	ug/L	83		2		39	146	20
2-Nitrophenol	52.1		46.7	ug/L	90		2		30	148	20
2,4-Dimethylphenol	52.1		42.2	ug/L	81		1		17	143	20
bis(2-Chloroethoxy)methane	52.1		48.5	ug/L	93		3		39	143	20
2,4-Dichlorophenol	52.1		43.1	ug/L	83		5		22	146	20
1,2,4-Trichlorobenzene	52.1		43.1	ug/L	83		2		66	110	20
Naphthalene	52.1		45.2	ug/L	87		1		17	157	20
4-Chloroaniline	52.1		23.3	ug/L	45		11		10	95	20
Hexachlorobutadiene	52.1		41.4	ug/L	79		1		20	150	20
4-Chloro-3-methylphenol	52.1		40.4	ug/L	78		1		17	148	20
2-Methylnaphthalene	52.1		48.7	ug/L	93		2		38	146	20
Hexachlorocyclopentadiene	100		110	ug/L	110		0		20	153	20
2,4,6-Trichlorophenol	52.1		47.2	ug/L	91		0		24	155	20
2,4,5-Trichlorophenol	52.1		43.8	ug/L	84		5		26	154	20
2-Chloronaphthalene	52.1		46.9	ug/L	90		1		41	145	20
2-Nitroaniline	52.1		49.7	ug/L	95		4		39	151	20
Dimethylphthalate	52.1		47.6	ug/L	91		1		42	147	20
Acenaphthylene	52.1		46.3	ug/L	89		3		40	141	20
2,6-Dinitrotoluene	52.1		40.9	ug/L	79		3		43	148	20
3-Nitroaniline	52.1		26.3	ug/L	50		11		10	111	20
Acenaphthene	52.1		49.1	ug/L	94		2		37	146	20
2,4-Dinitrophenol	100		88	ug/L	88		1		14	167	20
4-Nitrophenol	100		30.1	ug/L	30		3		10	130	20
Dibenzofuran	52.1		48.1	ug/L	92		3		41	145	20
2,4-Dinitrotoluene	52.1		41.9	ug/L	80		2		41	152	20
Diethylphthalate	52.1		48.3	ug/L	93		7		41	148	20
4-Chlorophenyl-phenylether	52.1		47.4	ug/L	91		1		38	149	20
Fluorene	52.1		49.9	ug/L	96		1		39	144	20
4-Nitroaniline	52.1		43.7	ug/L	84		0		27	138	20
4,6-Dinitro-2-methylphenol	52.1		47.7	ug/L	92		1		32	175	20
N-Nitrosodiphenylamine	52.1		51.1	ug/L	98		0		40	150	20
4-Bromophenyl-phenylether	52.1		49.8	ug/L	96		4		42	151	20
Hexachlorobenzene	52.1		47.6	ug/L	91		1		33	154	20
Pentachlorophenol	100		100	ug/L	100		4		28	171	20
Phenanthrene	52.1		49.1	ug/L	94		1		40	147	20

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Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: D5165

Client: TRC Companies, Inc.

Analytical Method: 8270D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Anthracene	52.1		50.8	ug/L	98		1		41	146	20
Carbazole	52.1		50.1	ug/L	96		2		37	154	20
Di-n-butylphthalate	52.1		50.1	ug/L	96		2		40	151	20
Fluoranthene	52.1		50.2	ug/L	96		0		42	146	20
Pyrene	52.1		50.8	ug/L	98		3		41	149	20
Butylbenzylphthalate	52.1		51.4	ug/L	99		4		39	155	20
3,3-Dichlorobenzidine	52.1		32.5	ug/L	62		12		10	114	20
Benzo(a)anthracene	52.1		49.6	ug/L	95		1		41	147	20
Chrysene	52.1		48.9	ug/L	94		1		44	144	20
bis(2-Ethylhexyl)phthalate	52.1		49.8	ug/L	96		2		33	160	20
Di-n-octyl phthalate	52.1		55.6	ug/L	107		5		36	158	20
Benzo(b)fluoranthene	52.1		49.8	ug/L	96		3		40	150	20
Benzo(k)fluoranthene	52.1		52	ug/L	100		3		40	147	20
Benzo(a)pyrene	52.1		51.5	ug/L	99		2		42	147	20
Indeno(1,2,3-cd)pyrene	52.1		49.4	ug/L	95		1		30	166	20
Dibenz(a,h)anthracene	52.1		49.8	ug/L	96		1		23	172	20
Benzo(g,h,i)perylene	52.1		49.4	ug/L	95		1		27	167	20

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

SDG No.: D5165

Client: TRC Companies, Inc.

Analytical Method: 8270D **DataFile:** BE080800.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB67493BS	Phenol	50	43.8	ug/L	88				10	130	
	bis(2-Chloroethyl)ether	50	44.4	ug/L	89				46	116	
	2-Chlorophenol	50	47.2	ug/L	94				40	105	
	1,2-Dichlorobenzene	50	44.9	ug/L	90				55	102	
	1,3-Dichlorobenzene	50	43.6	ug/L	87				54	100	
	1,4-Dichlorobenzene	50	44.1	ug/L	88				55	101	
	2-Methylphenol	50	53.1	ug/L	106		*		32	94	
	2,2-oxybis(1-Chloropropane)	50	47.7	ug/L	95				60	113	
	3+4-Methylphenols	50	49.6	ug/L	99		*		24	91	
	N-Nitroso-di-n-propylamine	50	49.1	ug/L	98				61	115	
	Hexachloroethane	50	45.8	ug/L	92				52	104	
	Nitrobenzene	50	40	ug/L	80				49	120	
	Isophorone	50	40.2	ug/L	80				65	114	
	2-Nitrophenol	50	47.2	ug/L	94				57	116	
	2,4-Dimethylphenol	50	50.5	ug/L	101				43	108	
	bis(2-Chloroethoxy)methane	50	46	ug/L	92				65	111	
	2,4-Dichlorophenol	50	47.5	ug/L	95				49	113	
	1,2,4-Trichlorobenzene	50	41.6	ug/L	83				41	115	
	Naphthalene	50	44.8	ug/L	90				61	107	
	4-Chloroaniline	50	12	ug/L	24				10	93	
	Hexachlorobutadiene	50	42.6	ug/L	85				35	120	
	4-Chloro-3-methylphenol	50	45.1	ug/L	90				51	109	
	2-Methylnaphthalene	50	46	ug/L	92				63	110	
	Hexachlorocyclopentadiene	100	110	ug/L	110				42	121	
	2,4,6-Trichlorophenol	50	45.9	ug/L	92				62	114	
	2,4,5-Trichlorophenol	50	41.3	ug/L	83				58	116	
	2-Chloronaphthalene	50	45.7	ug/L	91				65	111	
	2-Nitroaniline	50	49.1	ug/L	98				63	119	
	Dimethylphthalate	50	45.1	ug/L	90				68	112	
	Acenaphthylene	50	46.3	ug/L	93				65	110	
	2,6-Dinitrotoluene	50	38.8	ug/L	78				68	115	
	3-Nitroaniline	50	18.4	ug/L	37				16	104	
	Acenaphthene	50	47.1	ug/L	94				66	114	
	2,4-Dinitrophenol	100	84.2	ug/L	84				35	129	
	4-Nitrophenol	100	90.1	ug/L	90				10	130	
	Dibenzofuran	50	46.7	ug/L	93				66	111	
	2,4-Dinitrotoluene	50	41.6	ug/L	83				65	119	
	Diethylphthalate	50	46.6	ug/L	93				66	116	
	4-Chlorophenyl-phenylether	50	45.9	ug/L	92				66	113	
	Fluorene	50	49.3	ug/L	99				66	112	
	4-Nitroaniline	50	43.6	ug/L	87				53	115	
	4,6-Dinitro-2-methylphenol	50	45.3	ug/L	91				47	137	
	N-Nitrosodiphenylamine	50	47.4	ug/L	95				65	116	
	4-Bromophenyl-phenylether	50	43.8	ug/L	88				66	119	
	Hexachlorobenzene	50	44	ug/L	88				57	121	
	Pentachlorophenol	100	93	ug/L	93				51	128	

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

SDG No.: D5165

Client: TRC Companies, Inc.

Analytical Method: 8270D **DataFile:** BE080800.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB67493BS	Phenanthrene	50	45.7	ug/L	91				68	112	
	Anthracene	50	47.7	ug/L	95				69	112	
	Carbazole	50	46.5	ug/L	93				65	115	
	Di-n-butylphthalate	50	45.2	ug/L	90				67	117	
	Fluoranthene	50	45.7	ug/L	91				67	115	
	Pyrene	50	48	ug/L	96				67	116	
	Butylbenzylphthalate	50	47.7	ug/L	95				66	121	
	3,3-Dichlorobenzidine	50	19.7	ug/L	39				13	119	
	Benzo(a)anthracene	50	47.7	ug/L	95				64	117	
	Chrysene	50	47.4	ug/L	95				65	116	
	bis(2-Ethylhexyl)phthalate	50	47.5	ug/L	95				61	123	
	Di-n-octyl phthalate	50	51.9	ug/L	104				63	123	
	Benzo(b)fluoranthene	50	47.9	ug/L	96				62	122	
	Benzo(k)fluoranthene	50	46.9	ug/L	94				60	123	
	Benzo(a)pyrene	50	49.8	ug/L	100				65	118	
	Indeno(1,2,3-cd)pyrene	50	48.5	ug/L	97				50	133	
	Dibenz(a,h)anthracene	50	47.4	ug/L	95				45	150	
	Benzo(g,h,i)perylene	50	48.2	ug/L	96				64	123	

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB67493BL

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: D5165 SAS No.: D5165 SDG NO.: D5165

Lab File ID: BE080799.D Lab Sample ID: PB67493BL

Instrument ID: BNA_E Date Extracted: 12/17/2012

Matrix: (soil/water) Water Date Analyzed: 12/22/2012

Level: (low/med) LOW Time Analyzed: 21:45

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB67493BS	PB67493BS	BE080800.D	12/22/2012
DMW-5	D5165-18	BE080809.D	12/23/2012
MW-GF-9	D5165-05	BF059866.D	12/23/2012
MW-35S	D5165-03	BF059871.D	12/23/2012
MW-GF-7	D5165-07	BF059872.D	12/23/2012
EQUIPMENTBLANK	D5165-19	BG008974.D	12/23/2012
MW-39S	D5165-01	BE080787.D	12/22/2012
DUP-A	D5165-02	BE080788.D	12/22/2012
MW-GF-6	D5165-04	BE080789.D	12/22/2012
MW-34S	D5165-06	BE080790.D	12/22/2012
MW-36S	D5165-08	BE080791.D	12/22/2012
MW-GF-18	D5165-09	BE080792.D	12/22/2012
MW-GF-18MS	D5165-10MS	BE080793.D	12/22/2012
MW-GF-18MSD	D5165-11MSD	BE080794.D	12/22/2012
MW-GF-15	D5165-13	BE080795.D	12/22/2012
MW-1-60	D5165-15	BE080796.D	12/22/2012
MW-1-60MS	D5165-16MS	BE080797.D	12/22/2012
MW-1-60MSD	D5165-17MSD	BE080798.D	12/22/2012
EQUIPMENTBLANK	D5165-12	BE080801.D	12/22/2012
MW-GF-17	D5165-14	BE080805.D	12/23/2012

COMMENTS:

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM SAS No.: D5165 SDG NO.: D5165

Lab File ID: BE080700.D DFTPP Injection Date: 12/19/2012

Instrument ID: BNA_E DFTPP Injection Time: 16:57

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	33.4
68	Less than 2.0% of mass 69	0.5 (1.6) 1
69	Mass 69 relative abundance	32.6
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	44.2
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	6.7
275	10.0 - 60.0% of mass 198	26.2
365	Greater than 1% of mass 198	4.1
441	Present, but less than mass 443	14.1
442	Greater than 50% of mass 198	91.4
443	15.0 - 24.0% of mass 442	16.6 (18.2) 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
SSTDICC010	SSTDICC010	BE080709.D	12/19/2012	22:43
SSTDICC025	SSTDICC025	BE080710.D	12/19/2012	23:22
SSTDICCC040	SSTDICCC040	BE080711.D	12/19/2012	23:58
SSTDICC050	SSTDICC050	BE080712.D	12/20/2012	00:37
SSTDICC060	SSTDICC060	BE080713.D	12/20/2012	01:16
SSTDICC080	SSTDICC080	BE080714.D	12/20/2012	01:54

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM SAS No.: D5165 SDG NO.: D5165

Lab File ID: BE080785.D DFTPP Injection Date: 12/22/2012

Instrument ID: BNA_E DFTPP Injection Time: 12:48

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	32.9
68	Less than 2.0% of mass 69	0.5 (1.7) 1
69	Mass 69 relative abundance	31.6
70	Less than 2.0% of mass 69	0.2 (0.8) 1
127	10.0 - 80.0% of mass 198	44
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	6.8
275	10.0 - 60.0% of mass 198	26.4
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	14.3
442	Greater than 50% of mass 198	87.6
443	15.0 - 24.0% of mass 442	16.1 (18.4) 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	BE080786.D	12/22/2012	13:27
MW-39S	D5165-01	BE080787.D	12/22/2012	14:05
DUP-A	D5165-02	BE080788.D	12/22/2012	14:44
MW-GF-6	D5165-04	BE080789.D	12/22/2012	15:23
MW-34S	D5165-06	BE080790.D	12/22/2012	16:02
MW-36S	D5165-08	BE080791.D	12/22/2012	16:38
MW-GF-18	D5165-09	BE080792.D	12/22/2012	17:16
MW-GF-18MS	D5165-10MS	BE080793.D	12/22/2012	17:55
MW-GF-18MSD	D5165-11MSD	BE080794.D	12/22/2012	18:34
MW-GF-15	D5165-13	BE080795.D	12/22/2012	19:13
MW-1-60	D5165-15	BE080796.D	12/22/2012	19:48
MW-1-60MS	D5165-16MS	BE080797.D	12/22/2012	20:27
MW-1-60MSD	D5165-17MSD	BE080798.D	12/22/2012	21:06
PB67493BL	PB67493BL	BE080799.D	12/22/2012	21:45
PB67493BS	PB67493BS	BE080800.D	12/22/2012	22:24
EQUIPMENTBLANK	D5165-12	BE080801.D	12/22/2012	23:02

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM SAS No.: D5165 SDG NO.: D5165

Lab File ID: BE080803.D DFTPP Injection Date: 12/23/2012

Instrument ID: BNA_E DFTPP Injection Time: 00:17

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	38.2
68	Less than 2.0% of mass 69	0.5 (1.5) 1
69	Mass 69 relative abundance	35.5
70	Less than 2.0% of mass 69	0.0 (0.1) 1
127	10.0 - 80.0% of mass 198	43.1
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	6.3
275	10.0 - 60.0% of mass 198	24
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	12.5
442	Greater than 50% of mass 198	83.5
443	15.0 - 24.0% of mass 442	15.8 (18.9) 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	BE080804.D	12/23/2012	00:56
MW-GF-17	D5165-14	BE080805.D	12/23/2012	01:35
DMW-5	D5165-18	BE080809.D	12/23/2012	04:07

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM SAS No.: D5165 SDG NO.: D5165

Lab File ID: BE080832.D DFTPP Injection Date: 12/24/2012

Instrument ID: BNA_E DFTPP Injection Time: 21:25

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	35.5
68	Less than 2.0% of mass 69	0.6 (1.8) 1
69	Mass 69 relative abundance	35.3
70	Less than 2.0% of mass 69	0.2 (0.7) 1
127	10.0 - 80.0% of mass 198	46.8
197	Less than 2.0% of mass 198	0.3
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7.2
275	10.0 - 60.0% of mass 198	26.9
365	Greater than 1% of mass 198	4.2
441	Present, but less than mass 443	13.7
442	Greater than 50% of mass 198	88
443	15.0 - 24.0% of mass 442	18.2 (20.7) 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
SSTDCCC040	SSTDCCC040	BE080833.D	12/24/2012	22:01
MW-GF-18DL	D5165-09DL	BE080837.D	12/25/2012	00:36

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM SAS No.: D5165 SDG NO.: D5165

Lab File ID: BF059856.D DFTPP Injection Date: 12/23/2012

Instrument ID: BNA_F DFTPP Injection Time: 16:08

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	57.7
68	Less than 2.0% of mass 69	0.8 (1.7) 1
69	Mass 69 relative abundance	47.1
70	Less than 2.0% of mass 69	0.3 (0.5) 1
127	10.0 - 80.0% of mass 198	57.1
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	6.6
275	10.0 - 60.0% of mass 198	20.9
365	Greater than 1% of mass 198	2
441	Present, but less than mass 443	9.6
442	Greater than 50% of mass 198	56.7
443	15.0 - 24.0% of mass 442	11 (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
SSTDICC010	SSTDICC010	BF059858.D	12/23/2012	17:05
SSTDICC025	SSTDICC025	BF059859.D	12/23/2012	17:30
SSTDICCC040	SSTDICCC040	BF059860.D	12/23/2012	17:55
SSTDICC050	SSTDICC050	BF059861.D	12/23/2012	18:20
SSTDICC060	SSTDICC060	BF059862.D	12/23/2012	18:46
SSTDICC080	SSTDICC080	BF059863.D	12/23/2012	19:11
MW-GF-9	D5165-05	BF059866.D	12/23/2012	20:27
MW-35S	D5165-03	BF059871.D	12/23/2012	22:32
MW-GF-7	D5165-07	BF059872.D	12/23/2012	22:57

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SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM SAS No.: D5165 SDG NO.: D5165

Lab File ID: BG008827.D DFTPP Injection Date: 12/18/2012

Instrument ID: BNA_G DFTPP Injection Time: 13:24

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	42.4
68	Less than 2.0% of mass 69	0.6 (1.1) 1
69	Mass 69 relative abundance	53.9
70	Less than 2.0% of mass 69	0.3 (0.5) 1
127	10.0 - 80.0% of mass 198	47.9
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	6.1
275	10.0 - 60.0% of mass 198	20.7
365	Greater than 1% of mass 198	2.5
441	Present, but less than mass 443	9.2
442	Greater than 50% of mass 198	57.8
443	15.0 - 24.0% of mass 442	11.6 (20.1) 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
SSTDICC080	SSTDICC080	BG008829.D	12/18/2012	14:54
SSTDICC060	SSTDICC060	BG008830.D	12/18/2012	15:40
SSTDICC050	SSTDICC050	BG008831.D	12/18/2012	16:25
SSTDICCC040	SSTDICCC040	BG008832.D	12/18/2012	17:11
SSTDICC025	SSTDICC025	BG008833.D	12/18/2012	17:56
SSTDICC010	SSTDICC010	BG008834.D	12/18/2012	18:42

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM SAS No.: D5165 SDG NO.: D5165

Lab File ID: BG008958.D DFTPP Injection Date: 12/22/2012

Instrument ID: BNA_G DFTPP Injection Time: 17:07

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	40.4
68	Less than 2.0% of mass 69	0.8 (1.5) 1
69	Mass 69 relative abundance	55.1
70	Less than 2.0% of mass 69	0.1 (0.3) 1
127	10.0 - 80.0% of mass 198	46.2
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	5.5
275	10.0 - 60.0% of mass 198	22
365	Greater than 1% of mass 198	3
441	Present, but less than mass 443	10.9
442	Greater than 50% of mass 198	71.7
443	15.0 - 24.0% of mass 442	15.1 (21) 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	BG008959.D	12/22/2012	17:50
EQUIPMENTBLANK	D5165-19	BG008974.D	12/23/2012	04:26

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: D5165 SAS No.: D5165 SDG NO.: D5165

EPA Sample No.: SSTDCCC040 Date Analyzed: 12/22/2012

Lab File ID: BE080786.D Time Analyzed: 13:27

Instrument ID: BNA_E GC Column: RXI-5 ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	56364	7.53	224285	9.72	138006	12.66
	UPPER LIMIT	112728	8.03	448570	10.22	276012	13.16
	LOWER LIMIT	28182	7.03	112143	9.22	69003	12.16
	EPA SAMPLE NO.						
01	MW-GF-6	49372	7.54	198917	9.72	123337	12.65
02	MW-34S	50935	7.54	199473	9.72	119430	12.65
03	MW-36S	49665	7.54	193319	9.72	114815	12.66
04	MW-GF-18	50514	7.54	197526	9.72	121189	12.66
05	MW-GF-18MS	50605	7.54	196259	9.72	119596	12.66
06	MW-GF-18MSD	52637	7.54	200430	9.72	122600	12.66
07	EQUIPMENTBLANK	48917	7.54	190228	9.72	118517	12.66
08	MW-GF-15	47384	7.54	196767	9.72	117428	12.65
09	MW-1-60	49221	7.54	191500	9.72	119703	12.65
10	MW-1-60MS	48795	7.54	194550	9.72	114733	12.66
11	MW-1-60MSD	49430	7.54	193566	9.72	117602	12.65
12	PB67493BL	46708	7.54	189408	9.72	118894	12.65
13	PB67493BS	53921	7.54	213562	9.72	127871	12.65
14	MW-39S	46245	7.54	188498	9.72	118026	12.65
15	DUP-A	51423	7.54	206148	9.72	126178	12.65

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.: D5165 SAS No.: D5165 SDG NO.: D5165

EPA Sample No.: SSTDCCC040 Date Analyzed: 12/22/2012

Lab File ID: BE080786.D Time Analyzed: 13:27

Instrument ID: BNA_E GC Column: RXI-5 ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	255235	15.09	269908	19.4	240942	22.07
	UPPER LIMIT	510470	15.59	539816	19.9	481884	22.57
	LOWER LIMIT	127618	14.59	134954	18.9	120471	21.57
	EPA SAMPLE NO.						
01	MW-GF-6	221175	15.09	229627	19.40	216112	22.07
02	MW-34S	214743	15.09	229808	19.40	218702	22.07
03	MW-36S	203114	15.09	216760	19.40	213230	22.07
04	MW-GF-18	206459	15.09	223361	19.40	213731	22.07
05	MW-GF-18MS	209332	15.09	219044	19.40	204578	22.07
06	MW-GF-18MSD	204594	15.09	225896	19.40	206350	22.07
07	EQUIPMENTBLANK	211094	15.09	220143	19.40	207287	22.07
08	MW-GF-15	215892	15.09	227955	19.40	216244	22.07
09	MW-1-60	215844	15.09	225418	19.40	202082	22.07
10	MW-1-60MS	211167	15.09	220328	19.40	196311	22.07
11	MW-1-60MSD	209259	15.09	219874	19.40	196210	22.07
12	PB67493BL	212052	15.09	226048	19.40	206638	22.07
13	PB67493BS	240053	15.09	240047	19.40	216042	22.07
14	MW-39S	217088	15.09	218107	19.40	208449	22.07
15	DUP-A	229355	15.09	242333	19.40	226688	22.08

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.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: D5165 SAS No.: D5165 SDG NO.: D5165

EPA Sample No.: SSTDCCC040 Date Analyzed: 12/23/2012

Lab File ID: BE080804.D Time Analyzed: 00:56

Instrument ID: BNA_E GC Column: RXI-5 ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	56740	7.54	227592	9.72	134862	12.65
	UPPER LIMIT	113480	8.04	455184	10.22	269724	13.15
	LOWER LIMIT	28370	7.04	113796	9.22	67431	12.15
	EPA SAMPLE NO.						
01	MW-GF-17	48650	7.54	191533	9.72	118329	12.65
02	DMW-5	49394	7.54	198167	9.72	115875	12.65

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.: D5165 SAS No.: D5165 SDG NO.: D5165

EPA Sample No.: SSTDCCC040 Date Analyzed: 12/23/2012

Lab File ID: BE080804.D Time Analyzed: 00:56

Instrument ID: BNA_E GC Column: RXI-5 ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	245244	15.09	268242	19.4	225031	22.07
	UPPER LIMIT	490488	15.59	536484	19.9	450062	22.57
	LOWER LIMIT	122622	14.59	134121	18.9	112516	21.57
	EPA SAMPLE NO.						
01	MW-GF-17	211831	15.09	218156	19.40	209378	22.07
02	DMW-5	204321	15.09	196005	19.40	192549	22.07

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.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: D5165 SAS No.: D5165 SDG NO.: D5165

EPA Sample No.: SSTDCCC040 Date Analyzed: 12/24/2012

Lab File ID: BE080833.D Time Analyzed: 22:01

Instrument ID: BNA_E GC Column: RXI-5 ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	67832	7.5	252854	9.68	143266	12.62
	UPPER LIMIT	135664	8	505708	10.18	286532	13.12
	LOWER LIMIT	33916	7	126427	9.18	71633	12.12
	EPA SAMPLE NO.						
01	MW-GF-18DL	56061	7.51	218104	9.69	127962	12.62

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.: D5165 SAS No.: D5165 SDG NO.: D5165

EPA Sample No.: SSTDCCC040 Date Analyzed: 12/24/2012

Lab File ID: BE080833.D Time Analyzed: 22:01

Instrument ID: BNA_E GC Column: RXI-5 ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	256426	15.05	273619	19.36	237499	22
	UPPER LIMIT	512852	15.55	547238	19.86	474998	22.5
	LOWER LIMIT	128213	14.55	136810	18.86	118750	21.5
	EPA SAMPLE NO.						
01	MW-GF-18DL	220625	15.05	228164	19.36	216793	22.00

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.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: D5165 SAS No.: D5165 SDG NO.: D5165

EPA Sample No.: SSTDICCC040 Date Analyzed: 12/23/2012

Lab File ID: BF059860.D Time Analyzed: 17:55

Instrument ID: BNA_F GC Column: RTX-5 ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	240152	3.87	891114	5.45	439536	7.92
	UPPER LIMIT	480304	4.37	1782230	5.95	879072	8.42
	LOWER LIMIT	120076	3.37	445557	4.95	219768	7.42
	EPA SAMPLE NO.						
01	MW-35S	223113	3.87	793365	5.45	398263	7.91
02	MW-GF-9	216086	3.87	823944	5.45	395726	7.91
03	MW-GF-7	222058	3.87	797979	5.45	402979	7.91

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.: D5165 SAS No.: D5165 SDG NO.: D5165

EPA Sample No.: SSTDICCC040 Date Analyzed: 12/23/2012

Lab File ID: BF059860.D Time Analyzed: 17:55

Instrument ID: BNA_F GC Column: RTX-5 ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	707949	9.63	496784	12.51	546456	14.61
	UPPER LIMIT	1415900	10.13	993568	13.01	1092910	15.11
	LOWER LIMIT	353975	9.13	248392	12.01	273228	14.11
	EPA SAMPLE NO.						
01	MW-35S	606264	9.63	465528	12.49	490234	14.59
02	MW-GF-9	641371	9.62	534086	12.44	479434	14.52
03	MW-GF-7	638544	9.63	544896	12.46	495205	14.54

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.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: D5165 SAS No.: D5165 SDG NO.: D5165

EPA Sample No.: SSTDCCC040 Date Analyzed: 12/22/2012

Lab File ID: BG008959.D Time Analyzed: 17:50

Instrument ID: BNA_G GC Column: RXI-5 ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	144245	8.64	521965	10.81	343193	13.79
	UPPER LIMIT	288490	9.14	1043930	11.31	686386	14.29
	LOWER LIMIT	72122.5	8.14	260983	10.31	171597	13.29
	EPA SAMPLE NO.						
01	EQUIPMENTBLANK	145269	8.64	511522	10.81	333979	13.79

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.: D5165 SAS No.: D5165 SDG NO.: D5165

EPA Sample No.: SSTDCCC040 Date Analyzed: 12/22/2012

Lab File ID: BG008959.D Time Analyzed: 17:50

Instrument ID: BNA_G GC Column: RXI-5 ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	674226	16.27	743073	20.76	618423	24.56
	UPPER LIMIT	1348450	16.77	1486150	21.26	1236850	25.06
	LOWER LIMIT	337113	15.77	371537	20.26	309212	24.06
	EPA SAMPLE NO.						
01	EQUIPMENTBLANK	624484	16.27	628144	20.76	516037	24.55

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

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Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	Morris Park & Richmond Hill Yards	Date Received:	
Client Sample ID:	PB67493BL	SDG No.:	D5165
Lab Sample ID:	PB67493BL	Matrix:	Water
Analytical Method:	SW8270D	% 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
BE080799.D	1	12/17/12	12/22/12	PB67493

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
108-95-2	Phenol	5	U	0.21	5	10	ug/L
111-44-4	bis(2-Chloroethyl)ether	5	U	0.55	5	10	ug/L
95-57-8	2-Chlorophenol	5	U	0.54	5	10	ug/L
95-50-1	1,2-Dichlorobenzene	5	U	0.26	5	10	ug/L
541-73-1	1,3-Dichlorobenzene	5	U	0.13	5	10	ug/L
106-46-7	1,4-Dichlorobenzene	5	U	0.2	5	10	ug/L
95-48-7	2-Methylphenol	5	U	0.24	5	10	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	5	U	0.17	5	10	ug/L
65794-96-9	3+4-Methylphenols	5	U	0.38	5	10	ug/L
621-64-7	n-Nitroso-di-n-propylamine	5	U	0.2	5	10	ug/L
67-72-1	Hexachloroethane	5	U	0.25	5	10	ug/L
98-95-3	Nitrobenzene	5	U	0.68	5	10	ug/L
78-59-1	Isophorone	5	U	0.3	5	10	ug/L
88-75-5	2-Nitrophenol	5	U	0.52	5	10	ug/L
105-67-9	2,4-Dimethylphenol	5	U	0.71	5	10	ug/L
111-91-1	bis(2-Chloroethoxy)methane	5	U	0.55	5	10	ug/L
120-83-2	2,4-Dichlorophenol	5	U	0.66	5	10	ug/L
120-82-1	1,2,4-Trichlorobenzene	5	U	0.15	5	10	ug/L
91-20-3	Naphthalene	5	U	0.12	5	10	ug/L
106-47-8	4-Chloroaniline	5	U	2.9	5	10	ug/L
87-68-3	Hexachlorobutadiene	5	U	0.25	5	10	ug/L
59-50-7	4-Chloro-3-methylphenol	5	U	0.4	5	10	ug/L
91-57-6	2-Methylnaphthalene	5	U	0.32	5	10	ug/L
77-47-4	Hexachlorocyclopentadiene	5	U	0.24	5	10	ug/L
88-06-2	2,4,6-Trichlorophenol	5	U	0.56	5	10	ug/L
95-95-4	2,4,5-Trichlorophenol	5	U	0.4	5	10	ug/L
91-58-7	2-Chloronaphthalene	5	U	0.16	5	10	ug/L
88-74-4	2-Nitroaniline	5	U	0.49	5	10	ug/L
131-11-3	Dimethylphthalate	5	U	0.22	5	10	ug/L
208-96-8	Acenaphthylene	5	U	0.7	5	10	ug/L
606-20-2	2,6-Dinitrotoluene	5	U	0.32	5	10	ug/L

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Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	Morris Park & Richmond Hill Yards	Date Received:	
Client Sample ID:	PB67493BL	SDG No.:	D5165
Lab Sample ID:	PB67493BL	Matrix:	Water
Analytical Method:	SW8270D	% 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
BE080799.D	1	12/17/12	12/22/12	PB67493

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	5	U	1.1	5	10	ug/L
83-32-9	Acenaphthene	5	U	0.21	5	10	ug/L
51-28-5	2,4-Dinitrophenol	5	U	2.1	5	10	ug/L
100-02-7	4-Nitrophenol	5	U	2	5	10	ug/L
132-64-9	Dibenzofuran	5	U	0.24	5	10	ug/L
121-14-2	2,4-Dinitrotoluene	5	U	1	5	10	ug/L
84-66-2	Diethylphthalate	5	U	0.38	5	10	ug/L
7005-72-3	4-Chlorophenyl-phenylether	5	U	0.21	5	10	ug/L
86-73-7	Fluorene	5	U	0.31	5	10	ug/L
100-01-6	4-Nitroaniline	5	U	1.4	5	10	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	5	U	0.74	5	10	ug/L
86-30-6	n-Nitrosodiphenylamine	5	U	0.6	5	10	ug/L
101-55-3	4-Bromophenyl-phenylether	5	U	0.23	5	10	ug/L
118-74-1	Hexachlorobenzene	5	U	0.18	5	10	ug/L
87-86-5	Pentachlorophenol	5	U	1.7	5	10	ug/L
85-01-8	Phenanthrene	5	U	0.26	5	10	ug/L
120-12-7	Anthracene	5	U	0.16	5	10	ug/L
86-74-8	Carbazole	5	U	0.22	5	10	ug/L
84-74-2	Di-n-butylphthalate	5	U	2	5	10	ug/L
206-44-0	Fluoranthene	5	U	0.4	5	10	ug/L
129-00-0	Pyrene	5	U	0.2	5	10	ug/L
85-68-7	Butylbenzylphthalate	5	U	0.19	5	10	ug/L
91-94-1	3,3-Dichlorobenzidine	5	U	2	5	10	ug/L
56-55-3	Benzo(a)anthracene	5	U	0.16	5	10	ug/L
218-01-9	Chrysene	5	U	0.18	5	10	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	5	U	0.16	5	10	ug/L
117-84-0	Di-n-octyl phthalate	5	U	0.51	5	10	ug/L
205-99-2	Benzo(b)fluoranthene	5	U	0.29	5	10	ug/L
207-08-9	Benzo(k)fluoranthene	5	U	0.18	5	10	ug/L
50-32-8	Benzo(a)pyrene	5	U	0.14	5	10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5	U	0.15	5	10	ug/L
53-70-3	Dibenzo(a,h)anthracene	5	U	0.42	5	10	ug/L
191-24-2	Benzo(g,h,i)perylene	5	U	0.29	5	10	ug/L

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Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	Morris Park & Richmond Hill Yards	Date Received:	
Client Sample ID:	PB67493BL	SDG No.:	D5165
Lab Sample ID:	PB67493BL	Matrix:	Water
Analytical Method:	SW8270D	% 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
BE080799.D	1	12/17/12	12/22/12	PB67493

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
SURROGATES							
367-12-4	2-Fluorophenol	140		10 - 130		93%	SPK: 150
13127-88-3	Phenol-d6	140		10 - 130		94%	SPK: 150
4165-60-0	Nitrobenzene-d5	89.8		36 - 131		90%	SPK: 100
321-60-8	2-Fluorobiphenyl	95		39 - 131		95%	SPK: 100
118-79-6	2,4,6-Tribromophenol	120		25 - 155		82%	SPK: 150
1718-51-0	Terphenyl-d14	98.3		23 - 130		98%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	46708	7.54				
1146-65-2	Naphthalene-d8	189408	9.72				
15067-26-2	Acenaphthene-d10	118894	12.65				
1517-22-2	Phenanthrene-d10	212052	15.09				
1719-03-5	Chrysene-d12	226048	19.4				
1520-96-3	Perylene-d12	206638	22.07				

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	Morris Park & Richmond Hill Yards	Date Received:	
Client Sample ID:	PB67493BS	SDG No.:	D5165
Lab Sample ID:	PB67493BS	Matrix:	Water
Analytical Method:	SW8270D	% 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
BE080800.D	1	12/17/12	12/22/12	PB67493

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
108-95-2	Phenol	43.8		0.21	5	10	ug/L
111-44-4	bis(2-Chloroethyl)ether	44.4		0.55	5	10	ug/L
95-57-8	2-Chlorophenol	47.2		0.54	5	10	ug/L
95-50-1	1,2-Dichlorobenzene	44.9		0.26	5	10	ug/L
541-73-1	1,3-Dichlorobenzene	43.6		0.13	5	10	ug/L
106-46-7	1,4-Dichlorobenzene	44.1		0.2	5	10	ug/L
95-48-7	2-Methylphenol	53.1		0.24	5	10	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	47.7		0.17	5	10	ug/L
65794-96-9	3+4-Methylphenols	49.6		0.38	5	10	ug/L
621-64-7	n-Nitroso-di-n-propylamine	49.1		0.2	5	10	ug/L
67-72-1	Hexachloroethane	45.8		0.25	5	10	ug/L
98-95-3	Nitrobenzene	40		0.68	5	10	ug/L
78-59-1	Isophorone	40.2		0.3	5	10	ug/L
88-75-5	2-Nitrophenol	47.2		0.52	5	10	ug/L
105-67-9	2,4-Dimethylphenol	50.5		0.71	5	10	ug/L
111-91-1	bis(2-Chloroethoxy)methane	46		0.55	5	10	ug/L
120-83-2	2,4-Dichlorophenol	47.5		0.66	5	10	ug/L
120-82-1	1,2,4-Trichlorobenzene	41.6		0.15	5	10	ug/L
91-20-3	Naphthalene	44.8		0.12	5	10	ug/L
106-47-8	4-Chloroaniline	12		2.9	5	10	ug/L
87-68-3	Hexachlorobutadiene	42.6		0.25	5	10	ug/L
59-50-7	4-Chloro-3-methylphenol	45.1		0.4	5	10	ug/L
91-57-6	2-Methylnaphthalene	46		0.32	5	10	ug/L
77-47-4	Hexachlorocyclopentadiene	110	E	0.24	5	10	ug/L
88-06-2	2,4,6-Trichlorophenol	45.9		0.56	5	10	ug/L
95-95-4	2,4,5-Trichlorophenol	41.3		0.4	5	10	ug/L
91-58-7	2-Chloronaphthalene	45.7		0.16	5	10	ug/L
88-74-4	2-Nitroaniline	49.1		0.49	5	10	ug/L
131-11-3	Dimethylphthalate	45.1		0.22	5	10	ug/L
208-96-8	Acenaphthylene	46.3		0.7	5	10	ug/L
606-20-2	2,6-Dinitrotoluene	38.8		0.32	5	10	ug/L

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Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	Morris Park & Richmond Hill Yards	Date Received:	
Client Sample ID:	PB67493BS	SDG No.:	D5165
Lab Sample ID:	PB67493BS	Matrix:	Water
Analytical Method:	SW8270D	% 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
BE080800.D	1	12/17/12	12/22/12	PB67493

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	18.4		1.1	5	10	ug/L
83-32-9	Acenaphthene	47.1		0.21	5	10	ug/L
51-28-5	2,4-Dinitrophenol	84.2	E	2.1	5	10	ug/L
100-02-7	4-Nitrophenol	90.1	E	2	5	10	ug/L
132-64-9	Dibenzofuran	46.7		0.24	5	10	ug/L
121-14-2	2,4-Dinitrotoluene	41.6		1	5	10	ug/L
84-66-2	Diethylphthalate	46.6		0.38	5	10	ug/L
7005-72-3	4-Chlorophenyl-phenylether	45.9		0.21	5	10	ug/L
86-73-7	Fluorene	49.3		0.31	5	10	ug/L
100-01-6	4-Nitroaniline	43.6		1.4	5	10	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	45.3		0.74	5	10	ug/L
86-30-6	n-Nitrosodiphenylamine	47.4		0.6	5	10	ug/L
101-55-3	4-Bromophenyl-phenylether	43.8		0.23	5	10	ug/L
118-74-1	Hexachlorobenzene	44		0.18	5	10	ug/L
87-86-5	Pentachlorophenol	93	E	1.7	5	10	ug/L
85-01-8	Phenanthrene	45.7		0.26	5	10	ug/L
120-12-7	Anthracene	47.7		0.16	5	10	ug/L
86-74-8	Carbazole	46.5		0.22	5	10	ug/L
84-74-2	Di-n-butylphthalate	45.2		2	5	10	ug/L
206-44-0	Fluoranthene	45.7		0.4	5	10	ug/L
129-00-0	Pyrene	48		0.2	5	10	ug/L
85-68-7	Butylbenzylphthalate	47.7		0.19	5	10	ug/L
91-94-1	3,3-Dichlorobenzidine	19.7		2	5	10	ug/L
56-55-3	Benzo(a)anthracene	47.7		0.16	5	10	ug/L
218-01-9	Chrysene	47.4		0.18	5	10	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	47.5		0.16	5	10	ug/L
117-84-0	Di-n-octyl phthalate	51.9		0.51	5	10	ug/L
205-99-2	Benzo(b)fluoranthene	47.9		0.29	5	10	ug/L
207-08-9	Benzo(k)fluoranthene	46.9		0.18	5	10	ug/L
50-32-8	Benzo(a)pyrene	49.8		0.14	5	10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	48.5		0.15	5	10	ug/L
53-70-3	Dibenzo(a,h)anthracene	47.4		0.42	5	10	ug/L
191-24-2	Benzo(g,h,i)perylene	48.2		0.29	5	10	ug/L

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Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	
Project:	Morris Park & Richmond Hill Yards	Date Received:	
Client Sample ID:	PB67493BS	SDG No.:	D5165
Lab Sample ID:	PB67493BS	Matrix:	Water
Analytical Method:	SW8270D	% 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
BE080800.D	1	12/17/12	12/22/12	PB67493

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
SURROGATES							
367-12-4	2-Fluorophenol	130		10 - 130		83%	SPK: 150
13127-88-3	Phenol-d6	130		10 - 130		88%	SPK: 150
4165-60-0	Nitrobenzene-d5	88.9		36 - 131		89%	SPK: 100
321-60-8	2-Fluorobiphenyl	95.6		39 - 131		96%	SPK: 100
118-79-6	2,4,6-Tribromophenol	130		25 - 155		83%	SPK: 150
1718-51-0	Terphenyl-d14	98.8		23 - 130		99%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	53921	7.54				
1146-65-2	Naphthalene-d8	213562	9.72				
15067-26-2	Acenaphthene-d10	127871	12.65				
1517-22-2	Phenanthrene-d10	240053	15.09				
1719-03-5	Chrysene-d12	240047	19.4				
1520-96-3	Perylene-d12	216042	22.07				

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/17/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/17/12
Client Sample ID:	MW-GF-18MS	SDG No.:	D5165
Lab Sample ID:	D5165-10MS	Matrix:	Water
Analytical Method:	SW8270D	% 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
BE080793.D	1	12/17/12	12/22/12	PB67493

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
108-95-2	Phenol	13.8		0.22	5.25	10.5	ug/L
111-44-4	bis(2-Chloroethyl)ether	46.6		0.58	5.25	10.5	ug/L
95-57-8	2-Chlorophenol	40		0.57	5.25	10.5	ug/L
95-50-1	1,2-Dichlorobenzene	46.9		0.27	5.25	10.5	ug/L
541-73-1	1,3-Dichlorobenzene	46.4		0.14	5.25	10.5	ug/L
106-46-7	1,4-Dichlorobenzene	47.1		0.21	5.25	10.5	ug/L
95-48-7	2-Methylphenol	36		0.25	5.25	10.5	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	54.1		0.18	5.25	10.5	ug/L
65794-96-9	3+4-Methylphenols	29.5		0.4	5.25	10.5	ug/L
621-64-7	n-Nitroso-di-n-propylamine	54.1		0.21	5.25	10.5	ug/L
67-72-1	Hexachloroethane	48.1		0.26	5.25	10.5	ug/L
98-95-3	Nitrobenzene	47.4		0.72	5.25	10.5	ug/L
78-59-1	Isophorone	46.7		0.32	5.25	10.5	ug/L
88-75-5	2-Nitrophenol	48.9		0.55	5.25	10.5	ug/L
105-67-9	2,4-Dimethylphenol	47.5		0.75	5.25	10.5	ug/L
111-91-1	bis(2-Chloroethoxy)methane	51.9		0.58	5.25	10.5	ug/L
120-83-2	2,4-Dichlorophenol	46.2		0.69	5.25	10.5	ug/L
120-82-1	1,2,4-Trichlorobenzene	46.5		0.16	5.25	10.5	ug/L
91-20-3	Naphthalene	50.5		0.13	5.25	10.5	ug/L
106-47-8	4-Chloroaniline	24.3		3	5.25	10.5	ug/L
87-68-3	Hexachlorobutadiene	45.3		0.26	5.25	10.5	ug/L
59-50-7	4-Chloro-3-methylphenol	42.2		0.42	5.25	10.5	ug/L
91-57-6	2-Methylnaphthalene	150	E	0.34	5.25	10.5	ug/L
77-47-4	Hexachlorocyclopentadiene	110	E	0.25	5.25	10.5	ug/L
88-06-2	2,4,6-Trichlorophenol	46.9		0.59	5.25	10.5	ug/L
95-95-4	2,4,5-Trichlorophenol	42.7		0.42	5.25	10.5	ug/L
91-58-7	2-Chloronaphthalene	47.3		0.17	5.25	10.5	ug/L
88-74-4	2-Nitroaniline	54.1		0.52	5.25	10.5	ug/L
131-11-3	Dimethylphthalate	46.8		0.23	5.25	10.5	ug/L
208-96-8	Acenaphthylene	49.2		0.74	5.25	10.5	ug/L
606-20-2	2,6-Dinitrotoluene	41.3		0.34	5.25	10.5	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/17/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/17/12
Client Sample ID:	MW-GF-18MS	SDG No.:	D5165
Lab Sample ID:	D5165-10MS	Matrix:	Water
Analytical Method:	SW8270D	% 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
BE080793.D	1	12/17/12	12/22/12	PB67493

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	30.7		1.1	5.25	10.5	ug/L
83-32-9	Acenaphthene	58.6		0.22	5.25	10.5	ug/L
51-28-5	2,4-Dinitrophenol	90.9	E	2.2	5.25	10.5	ug/L
100-02-7	4-Nitrophenol	35.7		2.1	5.25	10.5	ug/L
132-64-9	Dibenzofuran	57.3		0.25	5.25	10.5	ug/L
121-14-2	2,4-Dinitrotoluene	43.7		1.1	5.25	10.5	ug/L
84-66-2	Diethylphthalate	48.3		0.4	5.25	10.5	ug/L
7005-72-3	4-Chlorophenyl-phenylether	44.8		0.22	5.25	10.5	ug/L
86-73-7	Fluorene	64.7		0.33	5.25	10.5	ug/L
100-01-6	4-Nitroaniline	39.9		1.4	5.25	10.5	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	48.3		0.78	5.25	10.5	ug/L
86-30-6	n-Nitrosodiphenylamine	74.4		0.63	5.25	10.5	ug/L
101-55-3	4-Bromophenyl-phenylether	47.2		0.24	5.25	10.5	ug/L
118-74-1	Hexachlorobenzene	43.4		0.19	5.25	10.5	ug/L
87-86-5	Pentachlorophenol	100	E	1.8	5.25	10.5	ug/L
85-01-8	Phenanthrene	71		0.27	5.25	10.5	ug/L
120-12-7	Anthracene	50.5		0.17	5.25	10.5	ug/L
86-74-8	Carbazole	56.8		0.23	5.25	10.5	ug/L
84-74-2	Di-n-butylphthalate	51.1		2.1	5.25	10.5	ug/L
206-44-0	Fluoranthene	48.5		0.42	5.25	10.5	ug/L
129-00-0	Pyrene	49.8		0.21	5.25	10.5	ug/L
85-68-7	Butylbenzylphthalate	52.3		0.2	5.25	10.5	ug/L
91-94-1	3,3-Dichlorobenzidine	29.5		2.1	5.25	10.5	ug/L
56-55-3	Benzo(a)anthracene	50		0.17	5.25	10.5	ug/L
218-01-9	Chrysene	50.7		0.19	5.25	10.5	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	53.8		0.17	5.25	10.5	ug/L
117-84-0	Di-n-octyl phthalate	56.9		0.54	5.25	10.5	ug/L
205-99-2	Benzo(b)fluoranthene	49.2		0.31	5.25	10.5	ug/L
207-08-9	Benzo(k)fluoranthene	50.4		0.19	5.25	10.5	ug/L
50-32-8	Benzo(a)pyrene	53.4		0.15	5.25	10.5	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	53.3		0.16	5.25	10.5	ug/L
53-70-3	Dibenzo(a,h)anthracene	50.7		0.44	5.25	10.5	ug/L
191-24-2	Benzo(g,h,i)perylene	51.3		0.31	5.25	10.5	ug/L

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

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/17/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/17/12
Client Sample ID:	MW-GF-18MS	SDG No.:	D5165
Lab Sample ID:	D5165-10MS	Matrix:	Water
Analytical Method:	SW8270D	% 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
BE080793.D	1	12/17/12	12/22/12	PB67493

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
SURROGATES							
367-12-4	2-Fluorophenol	52.7		10 - 130		35%	SPK: 150
13127-88-3	Phenol-d6	34		10 - 130		23%	SPK: 150
4165-60-0	Nitrobenzene-d5	94		36 - 131		94%	SPK: 100
321-60-8	2-Fluorobiphenyl	92.1		39 - 131		92%	SPK: 100
118-79-6	2,4,6-Tribromophenol	110		25 - 155		75%	SPK: 150
1718-51-0	Terphenyl-d14	82.1		23 - 130		82%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	50605	7.54				
1146-65-2	Naphthalene-d8	196259	9.72				
15067-26-2	Acenaphthene-d10	119596	12.66				
1517-22-2	Phenanthrene-d10	209332	15.09				
1719-03-5	Chrysene-d12	219044	19.4				
1520-96-3	Perylene-d12	204578	22.07				

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/17/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/17/12
Client Sample ID:	MW-1-60MS	SDG No.:	D5165
Lab Sample ID:	D5165-16MS	Matrix:	Water
Analytical Method:	SW8270D	% Moisture:	100
Sample Wt/Vol:	980 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
BE080797.D	1	12/17/12	12/22/12	PB67493

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
108-95-2	Phenol	13.1		0.21	5.1	10.2	ug/L
111-44-4	bis(2-Chloroethyl)ether	47.4		0.56	5.1	10.2	ug/L
95-57-8	2-Chlorophenol	38.5		0.55	5.1	10.2	ug/L
95-50-1	1,2-Dichlorobenzene	43.5		0.27	5.1	10.2	ug/L
541-73-1	1,3-Dichlorobenzene	43		0.13	5.1	10.2	ug/L
106-46-7	1,4-Dichlorobenzene	42.2		0.2	5.1	10.2	ug/L
95-48-7	2-Methylphenol	32.2		0.24	5.1	10.2	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	50.1		0.17	5.1	10.2	ug/L
65794-96-9	3+4-Methylphenols	29.5		0.39	5.1	10.2	ug/L
621-64-7	n-Nitroso-di-n-propylamine	51.2		0.2	5.1	10.2	ug/L
67-72-1	Hexachloroethane	42		0.26	5.1	10.2	ug/L
98-95-3	Nitrobenzene	41.6		0.69	5.1	10.2	ug/L
78-59-1	Isophorone	41.4		0.31	5.1	10.2	ug/L
88-75-5	2-Nitrophenol	44.8		0.53	5.1	10.2	ug/L
105-67-9	2,4-Dimethylphenol	41.8		0.72	5.1	10.2	ug/L
111-91-1	bis(2-Chloroethoxy)methane	45.9		0.56	5.1	10.2	ug/L
120-83-2	2,4-Dichlorophenol	44.3		0.67	5.1	10.2	ug/L
120-82-1	1,2,4-Trichlorobenzene	41.5		0.15	5.1	10.2	ug/L
91-20-3	Naphthalene	44		0.12	5.1	10.2	ug/L
106-47-8	4-Chloroaniline	25.5		2.9	5.1	10.2	ug/L
87-68-3	Hexachlorobutadiene	41		0.26	5.1	10.2	ug/L
59-50-7	4-Chloro-3-methylphenol	39.4		0.41	5.1	10.2	ug/L
91-57-6	2-Methylnaphthalene	48.4		0.33	5.1	10.2	ug/L
77-47-4	Hexachlorocyclopentadiene	110	E	0.24	5.1	10.2	ug/L
88-06-2	2,4,6-Trichlorophenol	46.6		0.57	5.1	10.2	ug/L
95-95-4	2,4,5-Trichlorophenol	40.7		0.41	5.1	10.2	ug/L
91-58-7	2-Chloronaphthalene	46.4		0.16	5.1	10.2	ug/L
88-74-4	2-Nitroaniline	50.5		0.5	5.1	10.2	ug/L
131-11-3	Dimethylphthalate	46.9		0.22	5.1	10.2	ug/L
208-96-8	Acenaphthylene	47		0.71	5.1	10.2	ug/L
606-20-2	2,6-Dinitrotoluene	41.4		0.33	5.1	10.2	ug/L

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/17/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/17/12
Client Sample ID:	MW-1-60MS	SDG No.:	D5165
Lab Sample ID:	D5165-16MS	Matrix:	Water
Analytical Method:	SW8270D	% Moisture:	100
Sample Wt/Vol:	980 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
BE080797.D	1	12/17/12	12/22/12	PB67493

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	28.4		1.1	5.1	10.2	ug/L
83-32-9	Acenaphthene	49.1		0.21	5.1	10.2	ug/L
51-28-5	2,4-Dinitrophenol	87.2	E	2.1	5.1	10.2	ug/L
100-02-7	4-Nitrophenol	28.5		2	5.1	10.2	ug/L
132-64-9	Dibenzofuran	48.4		0.24	5.1	10.2	ug/L
121-14-2	2,4-Dinitrotoluene	41.6		1.1	5.1	10.2	ug/L
84-66-2	Diethylphthalate	51.1		0.39	5.1	10.2	ug/L
7005-72-3	4-Chlorophenyl-phenylether	46.9		0.21	5.1	10.2	ug/L
86-73-7	Fluorene	49.7		0.32	5.1	10.2	ug/L
100-01-6	4-Nitroaniline	43		1.4	5.1	10.2	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	47.2		0.76	5.1	10.2	ug/L
86-30-6	n-Nitrosodiphenylamine	50.1		0.61	5.1	10.2	ug/L
101-55-3	4-Bromophenyl-phenylether	46.7		0.23	5.1	10.2	ug/L
118-74-1	Hexachlorobenzene	46.8		0.18	5.1	10.2	ug/L
87-86-5	Pentachlorophenol	96.2	E	1.8	5.1	10.2	ug/L
85-01-8	Phenanthrene	48.5		0.27	5.1	10.2	ug/L
120-12-7	Anthracene	50.6		0.16	5.1	10.2	ug/L
86-74-8	Carbazole	47.9		0.22	5.1	10.2	ug/L
84-74-2	Di-n-butylphthalate	49.9		2	5.1	10.2	ug/L
206-44-0	Fluoranthene	49		0.41	5.1	10.2	ug/L
129-00-0	Pyrene	51.5		0.2	5.1	10.2	ug/L
85-68-7	Butylbenzylphthalate	48.6		0.19	5.1	10.2	ug/L
91-94-1	3,3-Dichlorobenzidine	35.5		2	5.1	10.2	ug/L
56-55-3	Benzo(a)anthracene	48.1		0.16	5.1	10.2	ug/L
218-01-9	Chrysene	48.4		0.18	5.1	10.2	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	48.1		0.16	5.1	10.2	ug/L
117-84-0	Di-n-octyl phthalate	51.9		0.52	5.1	10.2	ug/L
205-99-2	Benzo(b)fluoranthene	47.4		0.3	5.1	10.2	ug/L
207-08-9	Benzo(k)fluoranthene	49.3		0.18	5.1	10.2	ug/L
50-32-8	Benzo(a)pyrene	51.3		0.14	5.1	10.2	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	48.8		0.15	5.1	10.2	ug/L
53-70-3	Dibenzo(a,h)anthracene	48.3		0.43	5.1	10.2	ug/L
191-24-2	Benzo(g,h,i)perylene	48		0.3	5.1	10.2	ug/L

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Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/17/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/17/12
Client Sample ID:	MW-1-60MS	SDG No.:	D5165
Lab Sample ID:	D5165-16MS	Matrix:	Water
Analytical Method:	SW8270D	% Moisture:	100
Sample Wt/Vol:	980 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
BE080797.D	1	12/17/12	12/22/12	PB67493

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
SURROGATES							
367-12-4	2-Fluorophenol	47.9		10 - 130		32%	SPK: 150
13127-88-3	Phenol-d6	33.4		10 - 130		22%	SPK: 150
4165-60-0	Nitrobenzene-d5	91.5		36 - 131		92%	SPK: 100
321-60-8	2-Fluorobiphenyl	99.1		39 - 131		99%	SPK: 100
118-79-6	2,4,6-Tribromophenol	130		25 - 155		86%	SPK: 150
1718-51-0	Terphenyl-d14	87.7		23 - 130		88%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	48795	7.54				
1146-65-2	Naphthalene-d8	194550	9.72				
15067-26-2	Acenaphthene-d10	114733	12.66				
1517-22-2	Phenanthrene-d10	211167	15.09				
1719-03-5	Chrysene-d12	220328	19.4				
1520-96-3	Perylene-d12	196311	22.07				

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/17/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/17/12
Client Sample ID:	MW-GF-18MSD	SDG No.:	D5165
Lab Sample ID:	D5165-11MSD	Matrix:	Water
Analytical Method:	SW8270D	% Moisture:	100
Sample Wt/Vol:	960 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
BE080794.D	1	12/17/12	12/22/12	PB67493

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
108-95-2	Phenol	12.2		0.22	5.2	10.4	ug/L
111-44-4	bis(2-Chloroethyl)ether	47		0.57	5.2	10.4	ug/L
95-57-8	2-Chlorophenol	37.2		0.56	5.2	10.4	ug/L
95-50-1	1,2-Dichlorobenzene	43.8		0.27	5.2	10.4	ug/L
541-73-1	1,3-Dichlorobenzene	44		0.14	5.2	10.4	ug/L
106-46-7	1,4-Dichlorobenzene	44.7		0.21	5.2	10.4	ug/L
95-48-7	2-Methylphenol	34.5		0.25	5.2	10.4	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	49.6		0.18	5.2	10.4	ug/L
65794-96-9	3+4-Methylphenols	28.6		0.4	5.2	10.4	ug/L
621-64-7	n-Nitroso-di-n-propylamine	49.8		0.21	5.2	10.4	ug/L
67-72-1	Hexachloroethane	45.1		0.26	5.2	10.4	ug/L
98-95-3	Nitrobenzene	44.8		0.71	5.2	10.4	ug/L
78-59-1	Isophorone	44		0.31	5.2	10.4	ug/L
88-75-5	2-Nitrophenol	46.2		0.54	5.2	10.4	ug/L
105-67-9	2,4-Dimethylphenol	45.3		0.74	5.2	10.4	ug/L
111-91-1	bis(2-Chloroethoxy)methane	51		0.57	5.2	10.4	ug/L
120-83-2	2,4-Dichlorophenol	45.3		0.69	5.2	10.4	ug/L
120-82-1	1,2,4-Trichlorobenzene	44.5		0.16	5.2	10.4	ug/L
91-20-3	Naphthalene	49.3		0.13	5.2	10.4	ug/L
106-47-8	4-Chloroaniline	21.6		3	5.2	10.4	ug/L
87-68-3	Hexachlorobutadiene	42.3		0.26	5.2	10.4	ug/L
59-50-7	4-Chloro-3-methylphenol	40.2		0.42	5.2	10.4	ug/L
91-57-6	2-Methylnaphthalene	140	E	0.33	5.2	10.4	ug/L
77-47-4	Hexachlorocyclopentadiene	110	E	0.25	5.2	10.4	ug/L
88-06-2	2,4,6-Trichlorophenol	44.6		0.58	5.2	10.4	ug/L
95-95-4	2,4,5-Trichlorophenol	39.6		0.42	5.2	10.4	ug/L
91-58-7	2-Chloronaphthalene	45		0.17	5.2	10.4	ug/L
88-74-4	2-Nitroaniline	49.1		0.51	5.2	10.4	ug/L
131-11-3	Dimethylphthalate	44.7		0.23	5.2	10.4	ug/L
208-96-8	Acenaphthylene	46.7		0.73	5.2	10.4	ug/L
606-20-2	2,6-Dinitrotoluene	38.8		0.33	5.2	10.4	ug/L

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

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/17/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/17/12
Client Sample ID:	MW-GF-18MSD	SDG No.:	D5165
Lab Sample ID:	D5165-11MSD	Matrix:	Water
Analytical Method:	SW8270D	% Moisture:	100
Sample Wt/Vol:	960 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
BE080794.D	1	12/17/12	12/22/12	PB67493

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	27.8		1.1	5.2	10.4	ug/L
83-32-9	Acenaphthene	55.1		0.22	5.2	10.4	ug/L
51-28-5	2,4-Dinitrophenol	88.1	E	2.2	5.2	10.4	ug/L
100-02-7	4-Nitrophenol	33.5		2.1	5.2	10.4	ug/L
132-64-9	Dibenzofuran	53.6		0.25	5.2	10.4	ug/L
121-14-2	2,4-Dinitrotoluene	44.3		1.1	5.2	10.4	ug/L
84-66-2	Diethylphthalate	45.7		0.4	5.2	10.4	ug/L
7005-72-3	4-Chlorophenyl-phenylether	42.4		0.22	5.2	10.4	ug/L
86-73-7	Fluorene	59.1		0.32	5.2	10.4	ug/L
100-01-6	4-Nitroaniline	37.1		1.4	5.2	10.4	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	51.2		0.77	5.2	10.4	ug/L
86-30-6	n-Nitrosodiphenylamine	63.8		0.63	5.2	10.4	ug/L
101-55-3	4-Bromophenyl-phenylether	45.8		0.24	5.2	10.4	ug/L
118-74-1	Hexachlorobenzene	43.6		0.19	5.2	10.4	ug/L
87-86-5	Pentachlorophenol	100	E	1.8	5.2	10.4	ug/L
85-01-8	Phenanthrene	63.8		0.27	5.2	10.4	ug/L
120-12-7	Anthracene	49.4		0.17	5.2	10.4	ug/L
86-74-8	Carbazole	57.3		0.23	5.2	10.4	ug/L
84-74-2	Di-n-butylphthalate	50.4		2.1	5.2	10.4	ug/L
206-44-0	Fluoranthene	48.4		0.42	5.2	10.4	ug/L
129-00-0	Pyrene	46.5		0.21	5.2	10.4	ug/L
85-68-7	Butylbenzylphthalate	49.8		0.2	5.2	10.4	ug/L
91-94-1	3,3-Dichlorobenzidine	28.2		2.1	5.2	10.4	ug/L
56-55-3	Benzo(a)anthracene	47.1		0.17	5.2	10.4	ug/L
218-01-9	Chrysene	47.8		0.19	5.2	10.4	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	51.1		0.17	5.2	10.4	ug/L
117-84-0	Di-n-octyl phthalate	54.6		0.53	5.2	10.4	ug/L
205-99-2	Benzo(b)fluoranthene	48.4		0.3	5.2	10.4	ug/L
207-08-9	Benzo(k)fluoranthene	48.8		0.19	5.2	10.4	ug/L
50-32-8	Benzo(a)pyrene	51.1		0.15	5.2	10.4	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	50.4		0.16	5.2	10.4	ug/L
53-70-3	Dibenzo(a,h)anthracene	48.8		0.44	5.2	10.4	ug/L
191-24-2	Benzo(g,h,i)perylene	49.5		0.3	5.2	10.4	ug/L

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

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/17/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/17/12
Client Sample ID:	MW-GF-18MSD	SDG No.:	D5165
Lab Sample ID:	D5165-11MSD	Matrix:	Water
Analytical Method:	SW8270D	% Moisture:	100
Sample Wt/Vol:	960 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
BE080794.D	1	12/17/12	12/22/12	PB67493

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
SURROGATES							
367-12-4	2-Fluorophenol	50		10 - 130		33%	SPK: 150
13127-88-3	Phenol-d6	30.1		10 - 130		20%	SPK: 150
4165-60-0	Nitrobenzene-d5	93.3		36 - 131		93%	SPK: 100
321-60-8	2-Fluorobiphenyl	88.7		39 - 131		89%	SPK: 100
118-79-6	2,4,6-Tribromophenol	110		25 - 155		73%	SPK: 150
1718-51-0	Terphenyl-d14	72.8		23 - 130		73%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	52637	7.54				
1146-65-2	Naphthalene-d8	200430	9.72				
15067-26-2	Acenaphthene-d10	122600	12.66				
1517-22-2	Phenanthrene-d10	204594	15.09				
1719-03-5	Chrysene-d12	225896	19.4				
1520-96-3	Perylene-d12	206350	22.07				

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/17/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/17/12
Client Sample ID:	MW-1-60MSD	SDG No.:	D5165
Lab Sample ID:	D5165-17MSD	Matrix:	Water
Analytical Method:	SW8270D	% Moisture:	100
Sample Wt/Vol:	960 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
BE080798.D	1	12/17/12	12/22/12	PB67493

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
108-95-2	Phenol	12.6		0.22	5.2	10.4	ug/L
111-44-4	bis(2-Chloroethyl)ether	45.3		0.57	5.2	10.4	ug/L
95-57-8	2-Chlorophenol	37.8		0.56	5.2	10.4	ug/L
95-50-1	1,2-Dichlorobenzene	42.8		0.27	5.2	10.4	ug/L
541-73-1	1,3-Dichlorobenzene	42.4		0.14	5.2	10.4	ug/L
106-46-7	1,4-Dichlorobenzene	41.7		0.21	5.2	10.4	ug/L
95-48-7	2-Methylphenol	33		0.25	5.2	10.4	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	51.6		0.18	5.2	10.4	ug/L
65794-96-9	3+4-Methylphenols	28.3		0.4	5.2	10.4	ug/L
621-64-7	n-Nitroso-di-n-propylamine	51.4		0.21	5.2	10.4	ug/L
67-72-1	Hexachloroethane	43		0.26	5.2	10.4	ug/L
98-95-3	Nitrobenzene	41.8		0.71	5.2	10.4	ug/L
78-59-1	Isophorone	43.2		0.31	5.2	10.4	ug/L
88-75-5	2-Nitrophenol	46.7		0.54	5.2	10.4	ug/L
105-67-9	2,4-Dimethylphenol	42.2		0.74	5.2	10.4	ug/L
111-91-1	bis(2-Chloroethoxy)methane	48.5		0.57	5.2	10.4	ug/L
120-83-2	2,4-Dichlorophenol	43.1		0.69	5.2	10.4	ug/L
120-82-1	1,2,4-Trichlorobenzene	43.1		0.16	5.2	10.4	ug/L
91-20-3	Naphthalene	45.2		0.13	5.2	10.4	ug/L
106-47-8	4-Chloroaniline	23.3		3	5.2	10.4	ug/L
87-68-3	Hexachlorobutadiene	41.4		0.26	5.2	10.4	ug/L
59-50-7	4-Chloro-3-methylphenol	40.4		0.42	5.2	10.4	ug/L
91-57-6	2-Methylnaphthalene	48.7		0.33	5.2	10.4	ug/L
77-47-4	Hexachlorocyclopentadiene	110	E	0.25	5.2	10.4	ug/L
88-06-2	2,4,6-Trichlorophenol	47.2		0.58	5.2	10.4	ug/L
95-95-4	2,4,5-Trichlorophenol	43.8		0.42	5.2	10.4	ug/L
91-58-7	2-Chloronaphthalene	46.9		0.17	5.2	10.4	ug/L
88-74-4	2-Nitroaniline	49.7		0.51	5.2	10.4	ug/L
131-11-3	Dimethylphthalate	47.6		0.23	5.2	10.4	ug/L
208-96-8	Acenaphthylene	46.3		0.73	5.2	10.4	ug/L
606-20-2	2,6-Dinitrotoluene	40.9		0.33	5.2	10.4	ug/L

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Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/17/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/17/12
Client Sample ID:	MW-1-60MSD	SDG No.:	D5165
Lab Sample ID:	D5165-17MSD	Matrix:	Water
Analytical Method:	SW8270D	% Moisture:	100
Sample Wt/Vol:	960 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
BE080798.D	1	12/17/12	12/22/12	PB67493

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	26.3		1.1	5.2	10.4	ug/L
83-32-9	Acenaphthene	49.1		0.22	5.2	10.4	ug/L
51-28-5	2,4-Dinitrophenol	88	E	2.2	5.2	10.4	ug/L
100-02-7	4-Nitrophenol	30.1		2.1	5.2	10.4	ug/L
132-64-9	Dibenzofuran	48.1		0.25	5.2	10.4	ug/L
121-14-2	2,4-Dinitrotoluene	41.9		1.1	5.2	10.4	ug/L
84-66-2	Diethylphthalate	48.3		0.4	5.2	10.4	ug/L
7005-72-3	4-Chlorophenyl-phenylether	47.4		0.22	5.2	10.4	ug/L
86-73-7	Fluorene	49.9		0.32	5.2	10.4	ug/L
100-01-6	4-Nitroaniline	43.7		1.4	5.2	10.4	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	47.7		0.77	5.2	10.4	ug/L
86-30-6	n-Nitrosodiphenylamine	51.1		0.63	5.2	10.4	ug/L
101-55-3	4-Bromophenyl-phenylether	49.8		0.24	5.2	10.4	ug/L
118-74-1	Hexachlorobenzene	47.6		0.19	5.2	10.4	ug/L
87-86-5	Pentachlorophenol	100	E	1.8	5.2	10.4	ug/L
85-01-8	Phenanthrene	49.1		0.27	5.2	10.4	ug/L
120-12-7	Anthracene	50.8		0.17	5.2	10.4	ug/L
86-74-8	Carbazole	50.1		0.23	5.2	10.4	ug/L
84-74-2	Di-n-butylphthalate	50.1		2.1	5.2	10.4	ug/L
206-44-0	Fluoranthene	50.2		0.42	5.2	10.4	ug/L
129-00-0	Pyrene	50.8		0.21	5.2	10.4	ug/L
85-68-7	Butylbenzylphthalate	51.4		0.2	5.2	10.4	ug/L
91-94-1	3,3-Dichlorobenzidine	32.5		2.1	5.2	10.4	ug/L
56-55-3	Benzo(a)anthracene	49.6		0.17	5.2	10.4	ug/L
218-01-9	Chrysene	48.9		0.19	5.2	10.4	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	49.8		0.17	5.2	10.4	ug/L
117-84-0	Di-n-octyl phthalate	55.6		0.53	5.2	10.4	ug/L
205-99-2	Benzo(b)fluoranthene	49.8		0.3	5.2	10.4	ug/L
207-08-9	Benzo(k)fluoranthene	52		0.19	5.2	10.4	ug/L
50-32-8	Benzo(a)pyrene	51.5		0.15	5.2	10.4	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	49.4		0.16	5.2	10.4	ug/L
53-70-3	Dibenzo(a,h)anthracene	49.8		0.44	5.2	10.4	ug/L
191-24-2	Benzo(g,h,i)perylene	49.4		0.3	5.2	10.4	ug/L

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

Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/17/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/17/12
Client Sample ID:	MW-1-60MSD	SDG No.:	D5165
Lab Sample ID:	D5165-17MSD	Matrix:	Water
Analytical Method:	SW8270D	% Moisture:	100
Sample Wt/Vol:	960 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
BE080798.D	1	12/17/12	12/22/12	PB67493

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
SURROGATES							
367-12-4	2-Fluorophenol	49.3		10 - 130		33%	SPK: 150
13127-88-3	Phenol-d6	30		10 - 130		20%	SPK: 150
4165-60-0	Nitrobenzene-d5	91.5		36 - 131		91%	SPK: 100
321-60-8	2-Fluorobiphenyl	97		39 - 131		97%	SPK: 100
118-79-6	2,4,6-Tribromophenol	130		25 - 155		86%	SPK: 150
1718-51-0	Terphenyl-d14	82.1		23 - 130		82%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	49430	7.54				
1146-65-2	Naphthalene-d8	193566	9.72				
15067-26-2	Acenaphthene-d10	117602	12.65				
1517-22-2	Phenanthrene-d10	209259	15.09				
1719-03-5	Chrysene-d12	219874	19.4				
1520-96-3	Perylene-d12	196210	22.07				

CALIBRATION SUMMURY

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

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: D5165 SAS No.: D5165 SDG No.: D5165

Instrument ID: BNA_E Calibration Date(s): 12/19/2012 12/19/2012

Calibration Time(s): 22:43 23:58

LAB FILE ID: RRF010 = BE080709.D RRF025 = BE080710.D RRF040 = BE080711.D
RRF050 = BE080712.D RRF060 = BE080713.D RRF080 = BE080714.D

COMPOUND	RRF010	RRF025	RRF040	RRF050	RRF060	RRF080	RRF	% RSD
2-Fluorophenol	1.330	1.333	1.445	1.408	1.355	1.362	1.372	3.3
Phenol-d6	1.525	1.584	1.647	1.672	1.612	1.629	1.612	3.2
Phenol	1.731	1.758	1.858	1.861	1.786	1.765	1.793	3.0
bis(2-Chloroethyl)ether	1.332	1.327	1.363	1.383	1.346	1.355	1.351	1.5
2-Chlorophenol	1.378	1.358	1.408	1.429	1.390	1.423	1.398	2.0
1,2-Dichlorobenzene	1.650	1.590	1.630	1.609	1.512	1.533	1.587	3.4
1,3-Dichlorobenzene	1.674	1.623	1.651	1.659	1.607	1.592	1.634	2.0
1,4-Dichlorobenzene	1.644	1.635	1.605	1.626	1.604	1.578	1.615	1.5
2-Methylphenol	0.991	0.978	1.010	1.008	0.977	0.971	0.989	1.7
2,2-oxybis(1-Chloropropane)	2.467	2.281	2.361	2.356	2.172	2.199	2.306	4.8
3+4-Methylphenols	1.298	1.334	1.374	1.351	1.319	1.280	1.326	2.6
n-Nitroso-di-n-propylamine	1.125	1.076	1.065	1.062	0.993	1.012	1.055	4.5
Nitrobenzene-d5	0.351	0.362	0.380	0.388	0.381	0.385	0.375	3.9
Hexachloroethane	0.648	0.642	0.636	0.646	0.625	0.606	0.634	2.5
Nitrobenzene	0.414	0.398	0.440	0.447	0.431	0.451	0.430	4.8
Isophorone	0.837	0.800	0.818	0.820	0.803	0.817	0.816	1.6
2-Nitrophenol	0.172	0.178	0.180	0.186	0.188	0.196	0.183	4.5
2,4-Dimethylphenol	0.296	0.287	0.294	0.298	0.299	0.301	0.296	1.7
bis(2-Chloroethoxy)methane	0.391	0.393	0.402	0.404	0.407	0.413	0.402	2.1
2,4-Dichlorophenol	0.284	0.285	0.298	0.294	0.303	0.304	0.295	2.9
1,2,4-Trichlorobenzene	0.368	0.362	0.368	0.373	0.371	0.376	0.370	1.4
Naphthalene	1.110	1.059	1.051	1.079	1.070	1.060	1.072	2.0
4-Chloroaniline	0.359	0.375	0.396	0.401	0.408	0.408	0.391	5.1
Hexachlorobutadiene	0.262	0.251	0.252	0.248	0.248	0.256	0.253	2.3
4-Chloro-3-methylphenol	0.312	0.320	0.331	0.334	0.328	0.343	0.328	3.3
2-Methylnaphthalene	0.741	0.705	0.713	0.717	0.715	0.722	0.719	1.7
Hexachlorocyclopentadiene	0.178	0.214	0.246	0.264	0.278	0.283	0.244	16.7
2,4,6-Trichlorophenol	0.400	0.399	0.413	0.414	0.430	0.420	0.413	2.9
2-Fluorobiphenyl	1.353	1.368	1.370	1.371	1.423	1.350	1.373	1.9
2,4,5-Trichlorophenol	0.457	0.456	0.460	0.474	0.475	0.460	0.464	1.8
2-Chloronaphthalene	1.188	1.193	1.221	1.212	1.246	1.199	1.210	1.8
2-Nitroaniline	0.290	0.303	0.324	0.330	0.334	0.335	0.319	5.9
Dimethylphthalate	1.465	1.448	1.484	1.489	1.503	1.443	1.472	1.6
Acenaphthylene	1.870	1.849	1.930	1.897	1.941	1.857	1.891	2.0
2,6-Dinitrotoluene	0.375	0.377	0.385	0.375	0.403	0.373	0.381	3.0
3-Nitroaniline	0.237	0.246	0.280	0.287	0.300	0.298	0.275	9.8

All other compounds must meet a minimum RRF of 0.010.

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6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: D5165 SAS No.: D5165 SDG No.: D5165

Instrument ID: BNA_E Calibration Date(s): 12/19/2012 12/19/2012

Calibration Time(s): 22:43 23:58

LAB FILE ID: RRF010 = BE080709.D RRF025 = BE080710.D RRF040 = BE080711.D
RRF050 = BE080712.D RRF060 = BE080713.D RRF080 = BE080714.D

COMPOUND	RRF010	RRF025	RRF040	RRF050	RRF060	RRF080	RRF	% RSD
Acenaphthene	1.095	1.076	1.099	1.089	1.122	1.074	1.092	1.6
2,4-Dinitrophenol	0.058	0.088	0.117	0.127	0.149	0.161	0.116	33.0
4-Nitrophenol	0.115	0.150	0.180	0.194	0.193	0.212	0.174	20.5
Dibenzofuran	1.668	1.631	1.667	1.683	1.741	1.661	1.675	2.2
2,4-Dinitrotoluene	0.433	0.449	0.491	0.498	0.499	0.495	0.477	6.1
Diethylphthalate	1.459	1.426	1.488	1.480	1.515	1.452	1.470	2.1
4-Chlorophenyl-phenylether	0.755	0.732	0.759	0.775	0.793	0.769	0.764	2.7
Fluorene	1.362	1.352	1.398	1.416	1.432	1.369	1.388	2.3
4-Nitroaniline	0.225	0.261	0.298	0.284	0.320	0.314	0.284	12.6
4,6-Dinitro-2-methylphenol	0.100	0.107	0.133	0.136	0.148	0.147	0.129	15.9
n-Nitrosodiphenylamine	0.629	0.629	0.654	0.642	0.657	0.648	0.643	1.9
2,4,6-Tribromophenol	0.212	0.218	0.230	0.238	0.238	0.236	0.229	4.9
4-Bromophenyl-phenylether	0.250	0.242	0.244	0.246	0.251	0.251	0.247	1.5
Hexachlorobenzene	0.278	0.260	0.270	0.271	0.268	0.271	0.270	2.1
Pentachlorophenol	0.146	0.155	0.166	0.169	0.171	0.171	0.163	6.5
Phenanthrene	1.091	1.059	1.089	1.095	1.099	1.082	1.086	1.3
Anthracene	1.043	1.057	1.095	1.102	1.107	1.090	1.082	2.4
Carbazole	0.961	0.937	0.983	0.984	1.005	1.001	0.978	2.6
Di-n-butylphthalate	1.261	1.246	1.304	1.299	1.306	1.276	1.282	2.0
Fluoranthene	1.213	1.214	1.263	1.259	1.258	1.252	1.243	1.9
Pyrene	1.204	1.177	1.210	1.192	1.219	1.186	1.198	1.3
Terphenyl-d14	0.893	0.865	0.900	0.885	0.913	0.898	0.892	1.8
Butylbenzylphthalate	0.506	0.516	0.529	0.532	0.539	0.532	0.526	2.3
3,3-Dichlorobenzidine	0.407	0.417	0.426	0.417	0.432	0.428	0.421	2.2
Benzo(a)anthracene	1.102	1.085	1.125	1.118	1.138	1.114	1.114	1.7
Chrysene	1.055	1.021	1.051	1.039	1.087	1.025	1.046	2.3
Bis(2-ethylhexyl)phthalate	0.723	0.719	0.753	0.744	0.763	0.736	0.740	2.3
Di-n-octyl phthalate	1.087	1.121	1.165	1.170	1.195	1.173	1.152	3.5
Benzo(b)fluoranthene	1.123	1.145	1.215	1.215	1.232	1.193	1.187	3.7
Benzo(k)fluoranthene	1.237	1.130	1.257	1.243	1.244	1.218	1.221	3.8
Benzo(a)pyrene	1.035	1.059	1.119	1.105	1.128	1.093	1.090	3.3
Indeno(1,2,3-cd)pyrene	1.073	1.088	1.130	1.158	1.176	1.161	1.131	3.7
Dibenzo(a,h)anthracene	0.995	1.035	1.090	1.095	1.128	1.099	1.074	4.6
Benzo(g,h,i)perylene	1.023	1.011	1.072	1.065	1.102	1.068	1.057	3.2

All other compounds must meet a minimum RRF of 0.010.

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6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: D5165 SAS No.: D5165 SDG No.: D5165

Instrument ID: BNA_F Calibration Date(s): 12/23/2012 12/23/2012

Calibration Time(s): 17:05 19:11

LAB FILE ID: RRF010 = BF059858.D RRF025 = BF059859.D RRF040 = BF059860.D
RRF050 = BF059861.D RRF060 = BF059862.D RRF080 = BF059863.D

COMPOUND	RRF010	RRF025	RRF040	RRF050	RRF060	RRF080	RRF	% RSD
2-Fluorophenol	1.600	1.467	1.385	1.351	1.322	1.204	1.388	9.7
Phenol-d6	1.949	1.719	1.592	1.526	1.475	1.362	1.604	12.9
Phenol	2.050	1.845	1.721	1.662	1.619	1.473	1.728	11.5
bis(2-Chloroethyl)ether	1.702	1.538	1.478	1.420	1.393	1.285	1.470	9.7
2-Chlorophenol	1.588	1.432	1.355	1.288	1.259	1.136	1.343	11.6
1,2-Dichlorobenzene	1.609	1.423	1.343	1.299	1.253	1.127	1.342	12.2
1,3-Dichlorobenzene	1.733	1.615	1.557	1.495	1.475	1.359	1.539	8.3
1,4-Dichlorobenzene	1.747	1.589	1.524	1.467	1.444	1.319	1.515	9.6
2-Methylphenol	1.206	1.110	1.096	1.077	1.057	0.999	1.091	6.3
2,2-oxybis(1-Chloropropane)	3.090	2.836	2.737	2.642	2.595	2.381	2.713	8.8
3+4-Methylphenols	1.625	1.491	1.449	1.409	1.386	1.282	1.440	8.0
n-Nitroso-di-n-propylamine	1.117	0.984	0.914	0.902	0.870	0.818	0.934	11.2
Nitrobenzene-d5	0.397	0.363	0.350	0.338	0.333	0.313	0.349	8.3
Hexachloroethane	0.601	0.578	0.568	0.558	0.557	0.524	0.564	4.5
Nitrobenzene	0.505	0.453	0.442	0.429	0.417	0.387	0.439	9.0
Isophorone	0.888	0.798	0.779	0.749	0.729	0.688	0.772	8.9
2-Nitrophenol	0.195	0.189	0.196	0.193	0.193	0.187	0.192	1.9
2,4-Dimethylphenol	0.349	0.320	0.311	0.308	0.304	0.288	0.314	6.5
bis(2-Chloroethoxy)methane	0.495	0.455	0.446	0.428	0.414	0.388	0.438	8.4
2,4-Dichlorophenol	0.290	0.272	0.271	0.263	0.259	0.245	0.267	5.7
1,2,4-Trichlorobenzene	0.330	0.294	0.295	0.281	0.278	0.261	0.290	8.0
Naphthalene	1.179	1.029	0.967	0.915	0.868	0.788	0.958	14.2
4-Chloroaniline	0.471	0.431	0.427	0.409	0.400	0.378	0.419	7.6
Hexachlorobutadiene	0.152	0.145	0.140	0.136	0.133	0.127	0.139	6.4
4-Chloro-3-methylphenol	0.336	0.316	0.316	0.313	0.308	0.296	0.314	4.1
2-Methylnaphthalene	0.778	0.707	0.671	0.646	0.625	0.578	0.668	10.4
Hexachlorocyclopentadiene	0.126	0.147	0.163	0.171	0.176	0.177	0.160	12.6
2,4,6-Trichlorophenol	0.369	0.342	0.352	0.342	0.340	0.328	0.345	4.0
2-Fluorobiphenyl	1.362	1.123	1.021	0.953	0.902	0.808	1.028	19.0
2,4,5-Trichlorophenol	0.399	0.371	0.370	0.364	0.365	0.350	0.370	4.4
2-Chloronaphthalene	1.341	1.173	1.106	1.064	1.036	0.952	1.112	12.0
2-Nitroaniline	0.417	0.402	0.414	0.412	0.415	0.400	0.410	1.8
Dimethylphthalate	1.472	1.331	1.278	1.233	1.201	1.107	1.270	9.8
Acenaphthylene	2.210	1.883	1.737	1.646	1.569	1.429	1.746	15.7
2,6-Dinitrotoluene	0.371	0.352	0.359	0.352	0.351	0.333	0.353	3.4
3-Nitroaniline	0.409	0.392	0.403	0.400	0.402	0.390	0.399	1.8

All other compounds must meet a minimum RRF of 0.010.

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6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: D5165 SAS No.: D5165 SDG No.: D5165

Instrument ID: BNA_F Calibration Date(s): 12/23/2012 12/23/2012

Calibration Time(s): 17:05 19:11

LAB FILE ID: RRF010 = BF059858.D RRF025 = BF059859.D RRF040 = BF059860.D
RRF050 = BF059861.D RRF060 = BF059862.D RRF080 = BF059863.D

COMPOUND	RRF010	RRF025	RRF040	RRF050	RRF060	RRF080	RRF	% RSD
Acenaphthene	1.281	1.106	1.081	1.023	0.999	0.918	1.068	11.6
2,4-Dinitrophenol	0.013	0.038	0.063	0.078	0.097	0.113	0.067	55.0
4-Nitrophenol	0.283	0.287	0.302	0.309	0.314	0.303	0.300	4.1
Dibenzofuran	1.822	1.530	1.404	1.325	1.278	1.139	1.416	16.8
2,4-Dinitrotoluene	0.443	0.425	0.416	0.407	0.400	0.374	0.411	5.7
Diethylphthalate	1.474	1.332	1.298	1.254	1.231	1.151	1.290	8.5
4-Chlorophenyl-phenylether	0.642	0.552	0.515	0.486	0.466	0.420	0.514	15.0
Fluorene	1.469	1.250	1.151	1.093	1.047	0.937	1.158	16.0
4-Nitroaniline	0.402	0.373	0.383	0.382	0.384	0.375	0.383	2.7
4,6-Dinitro-2-methylphenol	0.031	0.061	0.081	0.091	0.098	0.101	0.077	35.0
n-Nitrosodiphenylamine	0.758	0.679	0.643	0.612	0.586	0.541	0.637	11.9
2,4,6-Tribromophenol	0.130	0.122	0.122	0.116	0.115	0.109	0.119	6.2
4-Bromophenyl-phenylether	0.210	0.194	0.190	0.180	0.175	0.161	0.185	9.1
Hexachlorobenzene	0.212	0.196	0.187	0.182	0.177	0.166	0.187	8.6
Pentachlorophenol	0.079	0.098	0.109	0.111	0.111	0.107	0.102	12.4
Phenanthrene	1.249	1.102	1.003	0.963	0.904	0.805	1.004	15.5
Anthracene	1.248	1.108	1.008	0.962	0.902	0.813	1.007	15.3
Carbazole	1.235	1.116	1.014	0.967	0.920	0.833	1.014	14.1
Di-n-butylphthalate	1.480	1.324	1.210	1.152	1.098	0.973	1.206	14.7
Fluoranthene	1.196	1.063	0.996	0.946	0.902	0.825	0.988	13.2
Pyrene	1.536	1.422	1.432	1.407	1.370	1.331	1.416	4.9
Terphenyl-d14	0.880	0.773	0.763	0.745	0.701	0.683	0.758	9.2
Butylbenzylphthalate	0.776	0.777	0.810	0.810	0.793	0.794	0.793	1.9
3,3-Dichlorobenzidine	0.453	0.455	0.484	0.487	0.473	0.467	0.470	3.1
Benzo(a)anthracene	1.295	1.223	1.230	1.189	1.125	1.102	1.194	6.0
Chrysene	1.221	1.129	1.141	1.124	1.081	1.067	1.127	4.8
Bis(2-ethylhexyl)phthalate	0.981	0.964	0.969	0.933	0.896	0.875	0.936	4.6
Di-n-octyl phthalate	1.697	1.724	1.822	1.835	1.809	1.774	1.777	3.1
Benzo(b)fluoranthene	1.236	1.182	1.152	1.112	1.129	1.046	1.143	5.7
Benzo(k)fluoranthene	1.252	1.156	1.101	1.088	1.051	0.943	1.098	9.4
Benzo(a)pyrene	1.158	1.113	1.098	1.067	1.080	0.999	1.086	4.9
Indeno(1,2,3-cd)pyrene	1.219	1.255	1.391	1.426	1.445	1.486	1.370	7.9
Dibenzo(a,h)anthracene	1.062	1.047	1.055	1.044	1.011	0.957	1.029	3.8
Benzo(g,h,i)perylene	1.050	1.036	1.064	1.055	1.084	1.024	1.052	2.0

All other compounds must meet a minimum RRF of 0.010.

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6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: D5165 SAS No.: D5165 SDG No.: D5165

Instrument ID: BNA_G Calibration Date(s): 12/18/2012 12/18/2012

Calibration Time(s): 14:54 18:42

LAB FILE ID: RRF080 = BG008829.D RRF060 = BG008830.D RRF050 = BG008831.D
RRF040 = BG008832.D RRF025 = BG008833.D RRF010 = BG008834.D

COMPOUND	RRF080	RRF060	RRF050	RRF040	RRF025	RRF010	RRF	% RSD
2-Fluorophenol	1.339	1.391	1.402	1.419	1.383	1.425	1.393	2.2
Phenol-d6	1.775	1.879	1.921	1.948	1.904	1.963	1.899	3.6
Phenol	1.928	2.048	2.054	2.073	2.012	2.117	2.039	3.1
bis(2-Chloroethyl)ether	1.591	1.650	1.702	1.714	1.672	1.783	1.685	3.8
2-Chlorophenol	1.297	1.356	1.394	1.384	1.340	1.296	1.344	3.1
1,2-Dichlorobenzene	1.407	1.463	1.463	1.509	1.487	1.561	1.482	3.5
1,3-Dichlorobenzene	1.454	1.517	1.536	1.540	1.543	1.599	1.531	3.1
1,4-Dichlorobenzene	1.487	1.551	1.582	1.582	1.528	1.567	1.550	2.4
2-Methylphenol	1.136	1.186	1.188	1.227	1.155	1.163	1.176	2.7
2,2-oxybis(1-Chloropropane)	1.386	1.449	1.449	1.422	1.419	1.496	1.437	2.6
3+4-Methylphenols	1.582	1.641	1.629	1.672	1.608	1.648	1.630	1.9
n-Nitroso-di-n-propylamine	1.219	1.245	1.255	1.238	1.196	1.214	1.228	1.8
Nitrobenzene-d5	0.478	0.482	0.489	0.488	0.475	0.473	0.481	1.3
Hexachloroethane	0.597	0.628	0.648	0.631	0.597	0.631	0.622	3.3
Nitrobenzene	0.550	0.562	0.575	0.566	0.554	0.566	0.562	1.6
Isophorone	0.961	0.972	1.001	0.994	0.955	0.955	0.973	2.1
2-Nitrophenol	0.205	0.206	0.214	0.208	0.197	0.191	0.204	4.0
2,4-Dimethylphenol	0.336	0.335	0.341	0.336	0.329	0.316	0.332	2.6
bis(2-Chloroethoxy)methane	0.537	0.546	0.561	0.542	0.547	0.553	0.548	1.5
2,4-Dichlorophenol	0.342	0.337	0.341	0.346	0.325	0.312	0.334	3.8
1,2,4-Trichlorobenzene	0.398	0.398	0.405	0.400	0.390	0.381	0.395	2.2
Naphthalene	1.039	1.061	1.098	1.096	1.072	1.104	1.079	2.4
4-Chloroaniline	0.467	0.458	0.470	0.465	0.441	0.427	0.455	3.8
Hexachlorobutadiene	0.231	0.229	0.238	0.230	0.218	0.228	0.229	2.9
4-Chloro-3-methylphenol	0.361	0.362	0.365	0.367	0.354	0.325	0.356	4.4
2-Methylnaphthalene	0.753	0.756	0.771	0.763	0.757	0.760	0.760	0.8
Hexachlorocyclopentadiene	0.315	0.306	0.299	0.289	0.266	0.237	0.285	10.2
2,4,6-Trichlorophenol	0.426	0.424	0.429	0.427	0.404	0.390	0.417	3.9
2-Fluorobiphenyl	1.198	1.247	1.285	1.309	1.324	1.361	1.287	4.5
2,4,5-Trichlorophenol	0.461	0.473	0.461	0.466	0.432	0.437	0.455	3.6
2-Chloronaphthalene	1.203	1.220	1.214	1.236	1.212	1.238	1.220	1.2
2-Nitroaniline	0.370	0.360	0.366	0.365	0.336	0.325	0.354	5.2
Dimethylphthalate	1.353	1.365	1.386	1.381	1.355	1.368	1.368	1.0
Acenaphthylene	1.772	1.798	1.846	1.861	1.863	1.822	1.827	2.0
2,6-Dinitrotoluene	0.385	0.397	0.386	0.390	0.363	0.352	0.379	4.6
3-Nitroaniline	0.343	0.341	0.333	0.341	0.322	0.308	0.331	4.2

All other compounds must meet a minimum RRF of 0.010.

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6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: D5165 SAS No.: D5165 SDG No.: D5165

Instrument ID: BNA_G Calibration Date(s): 12/18/2012 12/18/2012

Calibration Time(s): 14:54 18:42

LAB FILE ID: RRF080 = BG008829.D RRF060 = BG008830.D RRF050 = BG008831.D
RRF040 = BG008832.D RRF025 = BG008833.D RRF010 = BG008834.D

COMPOUND	RRF080	RRF060	RRF050	RRF040	RRF025	RRF010	RRF	% RSD
Acenaphthene	1.136	1.151	1.164	1.158	1.098	1.106	1.135	2.4
2,4-Dinitrophenol	0.160	0.147	0.141	0.133	0.102	0.063	0.124	28.9
4-Nitrophenol	0.278	0.288	0.288	0.288	0.261	0.241	0.274	7.1
Dibenzofuran	1.618	1.633	1.672	1.700	1.689	1.709	1.670	2.2
2,4-Dinitrotoluene	0.489	0.496	0.502	0.506	0.461	0.459	0.485	4.3
Diethylphthalate	1.243	1.248	1.280	1.280	1.234	1.277	1.260	1.6
4-Chlorophenyl-phenylether	0.761	0.753	0.763	0.775	0.728	0.756	0.756	2.1
Fluorene	1.381	1.391	1.413	1.428	1.378	1.366	1.393	1.7
4-Nitroaniline	0.372	0.360	0.381	0.369	0.348	0.348	0.363	3.8
4,6-Dinitro-2-methylphenol	0.136	0.134	0.129	0.126	0.107	0.089	0.120	15.4
n-Nitrosodiphenylamine	0.622	0.633	0.631	0.634	0.625	0.626	0.628	0.8
2,4,6-Tribromophenol	0.200	0.195	0.194	0.192	0.188	0.170	0.190	5.4
4-Bromophenyl-phenylether	0.241	0.242	0.240	0.241	0.232	0.246	0.240	1.9
Hexachlorobenzene	0.233	0.234	0.230	0.229	0.221	0.245	0.232	3.4
Pentachlorophenol	0.158	0.154	0.153	0.148	0.126	0.117	0.143	11.9
Phenanthrene	1.055	1.085	1.097	1.079	1.066	1.173	1.093	3.9
Anthracene	1.044	1.085	1.087	1.086	1.059	1.111	1.079	2.2
Carbazole	1.000	1.045	1.044	1.035	1.032	1.038	1.032	1.6
Di-n-butylphthalate	1.114	1.143	1.145	1.147	1.128	1.135	1.135	1.1
Fluoranthene	1.199	1.222	1.232	1.250	1.237	1.329	1.245	3.6
Pyrene	1.087	1.186	1.171	1.176	1.171	1.161	1.158	3.1
Terphenyl-d14	0.703	0.777	0.775	0.792	0.804	0.823	0.779	5.3
Butylbenzylphthalate	0.479	0.490	0.476	0.477	0.434	0.432	0.465	5.4
3,3-Dichlorobenzidine	0.385	0.413	0.385	0.380	0.374	0.352	0.381	5.1
Benzo(a)anthracene	1.065	1.138	1.114	1.114	1.088	1.133	1.109	2.5
Chrysene	0.971	1.048	1.006	1.029	1.013	1.054	1.020	3.0
Bis(2-ethylhexyl)phthalate	0.669	0.686	0.672	0.669	0.641	0.632	0.662	3.1
Di-n-octyl phthalate	1.003	1.059	1.011	0.999	0.980	1.049	1.017	3.0
Benzo(b)fluoranthene	1.210	1.237	1.238	1.225	1.211	1.286	1.235	2.3
Benzo(k)fluoranthene	1.198	1.249	1.230	1.208	1.227	1.355	1.245	4.6
Benzo(a)pyrene	1.134	1.156	1.156	1.144	1.140	1.201	1.155	2.1
Indeno(1,2,3-cd)pyrene	1.053	1.089	1.041	1.032	0.997	1.022	1.039	3.0
Dibenzo(a,h)anthracene	1.049	1.062	1.053	1.033	1.017	0.957	1.029	3.8
Benzo(g,h,i)perylene	1.048	1.052	1.046	1.017	1.018	0.979	1.027	2.7

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: D5165 SAS No.: D5165 SDG No.: D5165

Instrument ID: BNA_E Calibration Date/Time: 12/22/2012 13:27

Lab File ID: BE080786.D Init. Calib. Date(s): 12/19/2012 12/19/2012

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 18:15 23:58

GC Column: RXI-5 ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.372	1.354		-1.3	
Phenol-d6	1.612	1.703		5.6	
Phenol	1.793	1.888		5.3	20.0
bis(2-Chloroethyl)ether	1.351	1.421		5.2	
2-Chlorophenol	1.398	1.476		5.6	
1,2-Dichlorobenzene	1.587	1.627		2.5	
1,3-Dichlorobenzene	1.634	1.703		4.2	
1,4-Dichlorobenzene	1.615	1.631		1.0	20.0
2-Methylphenol	0.989	1.052		6.4	
2,2-oxybis(1-Chloropropane)	2.306	2.516		9.1	
3+4-Methylphenols	1.326	1.419		7.0	
n-Nitroso-di-n-propylamine	1.055	1.153	0.050	9.3	
Nitrobenzene-d5	0.375	0.377		0.5	
Hexachloroethane	0.634	0.666		5.0	
Nitrobenzene	0.430	0.451		4.9	
Isophorone	0.816	0.859		5.3	
2-Nitrophenol	0.183	0.178		-2.7	20.0
2,4-Dimethylphenol	0.296	0.303		2.4	
bis(2-Chloroethoxy)methane	0.402	0.404		0.5	
2,4-Dichlorophenol	0.295	0.297		0.7	20.0
1,2,4-Trichlorobenzene	0.370	0.362		-2.2	
Naphthalene	1.072	1.092		1.9	
4-Chloroaniline	0.391	0.411		5.1	
Hexachlorobutadiene	0.253	0.241		-4.7	20.0
4-Chloro-3-methylphenol	0.328	0.335		2.1	20.0
2-Methylnaphthalene	0.719	0.751		4.5	
Hexachlorocyclopentadiene	0.244	0.212	0.050	-13.1	
2,4,6-Trichlorophenol	0.413	0.409		-1.0	20.0
2-Fluorobiphenyl	1.373	1.391		1.3	
2,4,5-Trichlorophenol	0.464	0.446		-3.9	
2-Chloronaphthalene	1.210	1.211		0.1	
2-Nitroaniline	0.319	0.335		5.0	
Dimethylphthalate	1.472	1.489		1.2	
Acenaphthylene	1.891	1.942		2.7	
2,6-Dinitrotoluene	0.381	0.374		-1.8	
3-Nitroaniline	0.275	0.294		6.9	
Acenaphthene	1.092	1.121		2.7	20.0
2,4-Dinitrophenol	0.116	0.092	0.050	-20.7	
4-Nitrophenol	0.174	0.166	0.050	-4.6	
Dibenzofuran	1.675	1.706		1.9	
2,4-Dinitrotoluene	0.477	0.505		5.9	

Form VII SV-1

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: D5165 SAS No.: D5165 SDG No.: D5165

Instrument ID: BNA_E Calibration Date/Time: 12/22/2012 13:27

Lab File ID: BE080786.D Init. Calib. Date(s): 12/19/2012 12/19/2012

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 18:15 23:58

GC Column: RXI-5 ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Diethylphthalate	1.470	1.577		7.3	
4-Chlorophenyl-phenylether	0.764	0.759		-0.7	
Fluorene	1.388	1.424		2.6	
4-Nitroaniline	0.284	0.310		9.2	
4,6-Dinitro-2-methylphenol	0.129	0.119		-7.8	
n-Nitrosodiphenylamine	0.643	0.662		3.0	20.0
2,4,6-Tribromophenol	0.229	0.230		0.4	
4-Bromophenyl-phenylether	0.247	0.247		0.0	
Hexachlorobenzene	0.270	0.265		-1.9	
Pentachlorophenol	0.163	0.153		-6.1	20.0
Phenanthrene	1.086	1.104		1.7	
Anthracene	1.082	1.126		4.1	
Carbazole	0.978	1.025		4.8	
Di-n-butylphthalate	1.282	1.341		4.6	
Fluoranthene	1.243	1.274		2.5	20.0
Pyrene	1.198	1.221		1.9	
Terphenyl-d14	0.892	0.894		0.2	
Butylbenzylphthalate	0.526	0.560		6.5	
3,3-Dichlorobenzidine	0.421	0.438		4.0	
Benzo(a)anthracene	1.114	1.139		2.2	
Chrysene	1.046	1.053		0.7	
Bis(2-ethylhexyl)phthalate	0.740	0.770		4.1	
Di-n-octyl phthalate	1.152	1.249		8.4	20.0
Benzo(b)fluoranthene	1.187	1.204		1.4	
Benzo(k)fluoranthene	1.221	1.230		0.7	
Benzo(a)pyrene	1.090	1.123		3.0	20.0
Indeno(1,2,3-cd)pyrene	1.131	1.139		0.7	
Dibenzo(a,h)anthracene	1.074	1.080		0.6	
Benzo(g,h,i)perylene	1.057	1.047		-0.9	

All other compounds must meet a minimum RRF of 0.010.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: D5165 SAS No.: D5165 SDG No.: D5165

Instrument ID: BNA_E Calibration Date/Time: 12/23/2012 00:56

Lab File ID: BE080804.D Init. Calib. Date(s): 12/19/2012 12/19/2012

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 18:15 23:58

GC Column: RXI-5 ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.372	1.395		1.7	
Phenol-d6	1.612	1.710		6.1	
Phenol	1.793	1.854		3.4	20.0
bis(2-Chloroethyl)ether	1.351	1.445		7.0	
2-Chlorophenol	1.398	1.426		2.0	
1,2-Dichlorobenzene	1.587	1.633		2.9	
1,3-Dichlorobenzene	1.634	1.683		3.0	
1,4-Dichlorobenzene	1.615	1.594		-1.3	20.0
2-Methylphenol	0.989	1.087		9.9	
2,2-oxybis(1-Chloropropane)	2.306	2.641		14.5	
3+4-Methylphenols	1.326	1.405		6.0	
n-Nitroso-di-n-propylamine	1.055	1.155	0.050	9.5	
Nitrobenzene-d5	0.375	0.378		0.8	
Hexachloroethane	0.634	0.662		4.4	
Nitrobenzene	0.430	0.440		2.3	
Isophorone	0.816	0.857		5.0	
2-Nitrophenol	0.183	0.179		-2.2	20.0
2,4-Dimethylphenol	0.296	0.296		0.0	
bis(2-Chloroethoxy)methane	0.402	0.406		1.0	
2,4-Dichlorophenol	0.295	0.287		-2.7	20.0
1,2,4-Trichlorobenzene	0.370	0.353		-4.6	
Naphthalene	1.072	1.078		0.6	
4-Chloroaniline	0.391	0.377		-3.6	
Hexachlorobutadiene	0.253	0.237		-6.3	20.0
4-Chloro-3-methylphenol	0.328	0.334		1.8	20.0
2-Methylnaphthalene	0.719	0.717		-0.3	
Hexachlorocyclopentadiene	0.244	0.211	0.050	-13.5	
2,4,6-Trichlorophenol	0.413	0.372		-9.9	20.0
2-Fluorobiphenyl	1.373	1.379		0.4	
2,4,5-Trichlorophenol	0.464	0.430		-7.3	
2-Chloronaphthalene	1.210	1.226		1.3	
2-Nitroaniline	0.319	0.316		-0.9	
Dimethylphthalate	1.472	1.489		1.2	
Acenaphthylene	1.891	1.926		1.9	
2,6-Dinitrotoluene	0.381	0.386		1.3	
3-Nitroaniline	0.275	0.289		5.1	
Acenaphthene	1.092	1.105		1.2	20.0
2,4-Dinitrophenol	0.116	0.099	0.050	-14.7	
4-Nitrophenol	0.174	0.160	0.050	-8.0	
Dibenzofuran	1.675	1.697		1.3	
2,4-Dinitrotoluene	0.477	0.489		2.5	

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: D5165 SAS No.: D5165 SDG No.: D5165

Instrument ID: BNA_E Calibration Date/Time: 12/23/2012 00:56

Lab File ID: BE080804.D Init. Calib. Date(s): 12/19/2012 12/19/2012

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 18:15 23:58

GC Column: RXI-5 ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Diethylphthalate	1.470	1.513		2.9	
4-Chlorophenyl-phenylether	0.764	0.748		-2.1	
Fluorene	1.388	1.411		1.7	
4-Nitroaniline	0.284	0.300		5.6	
4,6-Dinitro-2-methylphenol	0.129	0.126		-2.3	
n-Nitrosodiphenylamine	0.643	0.676		5.1	20.0
2,4,6-Tribromophenol	0.229	0.217		-5.2	
4-Bromophenyl-phenylether	0.247	0.245		-0.8	
Hexachlorobenzene	0.270	0.263		-2.6	
Pentachlorophenol	0.163	0.148		-9.2	20.0
Phenanthrene	1.086	1.096		0.9	
Anthracene	1.082	1.111		2.7	
Carbazole	0.978	1.012		3.5	
Di-n-butylphthalate	1.282	1.326		3.4	
Fluoranthene	1.243	1.262		1.5	20.0
Pyrene	1.198	1.175		-1.9	
Terphenyl-d14	0.892	0.868		-2.7	
Butylbenzylphthalate	0.526	0.527		0.2	
3,3-Dichlorobenzidine	0.421	0.399		-5.2	
Benzo(a)anthracene	1.114	1.097		-1.5	
Chrysene	1.046	1.050		0.4	
Bis(2-ethylhexyl)phthalate	0.740	0.770		4.1	
Di-n-octyl phthalate	1.152	1.163		1.0	20.0
Benzo(b)fluoranthene	1.187	1.218		2.6	
Benzo(k)fluoranthene	1.221	1.366		11.9	
Benzo(a)pyrene	1.090	1.155		6.0	20.0
Indeno(1,2,3-cd)pyrene	1.131	1.120		-1.0	
Dibenzo(a,h)anthracene	1.074	1.123		4.6	
Benzo(g,h,i)perylene	1.057	1.109		4.9	

All other compounds must meet a minimum RRF of 0.010.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: D5165 SAS No.: D5165 SDG No.: D5165

Instrument ID: BNA_E Calibration Date/Time: 12/24/2012 22:01

Lab File ID: BE080833.D Init. Calib. Date(s): 12/19/2012 12/19/2012

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 18:15 23:58

GC Column: RXI-5 ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.372	1.378		0.4	
Phenol-d6	1.612	1.675		3.9	
Phenol	1.793	1.877		4.7	20.0
bis(2-Chloroethyl)ether	1.351	1.351		0.0	
2-Chlorophenol	1.398	1.432		2.4	
1,2-Dichlorobenzene	1.587	1.609		1.4	
1,3-Dichlorobenzene	1.634	1.663		1.8	
1,4-Dichlorobenzene	1.615	1.625		0.6	20.0
2-Methylphenol	0.989	0.995		0.6	
2,2-oxybis(1-Chloropropane)	2.306	2.525		9.5	
3+4-Methylphenols	1.326	1.317		-0.7	
n-Nitroso-di-n-propylamine	1.055	1.057	0.050	0.2	
Nitrobenzene-d5	0.375	0.386		2.9	
Hexachloroethane	0.634	0.674		6.3	
Nitrobenzene	0.430	0.449		4.4	
Isophorone	0.816	0.832		2.0	
2-Nitrophenol	0.183	0.175		-4.4	20.0
2,4-Dimethylphenol	0.296	0.294		-0.7	
bis(2-Chloroethoxy)methane	0.402	0.408		1.5	
2,4-Dichlorophenol	0.295	0.288		-2.4	20.0
1,2,4-Trichlorobenzene	0.370	0.363		-1.9	
Naphthalene	1.072	1.098		2.4	
4-Chloroaniline	0.391	0.387		-1.0	
Hexachlorobutadiene	0.253	0.245		-3.2	20.0
4-Chloro-3-methylphenol	0.328	0.322		-1.8	20.0
2-Methylnaphthalene	0.719	0.701		-2.5	
Hexachlorocyclopentadiene	0.244	0.236	0.050	-3.3	
2,4,6-Trichlorophenol	0.413	0.399		-3.4	20.0
2-Fluorobiphenyl	1.373	1.383		0.7	
2,4,5-Trichlorophenol	0.464	0.447		-3.7	
2-Chloronaphthalene	1.210	1.233		1.9	
2-Nitroaniline	0.319	0.345		8.1	
Dimethylphthalate	1.472	1.477		0.3	
Acenaphthylene	1.891	1.930		2.1	
2,6-Dinitrotoluene	0.381	0.384		0.8	
3-Nitroaniline	0.275	0.284		3.3	
Acenaphthene	1.092	1.093		0.1	20.0
2,4-Dinitrophenol	0.116	0.108	0.050	-6.9	
4-Nitrophenol	0.174	0.158	0.050	-9.2	
Dibenzofuran	1.675	1.713		2.3	
2,4-Dinitrotoluene	0.477	0.478		0.2	

Form VII SV-1

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: D5165 SAS No.: D5165 SDG No.: D5165

Instrument ID: BNA_E Calibration Date/Time: 12/24/2012 22:01

Lab File ID: BE080833.D Init. Calib. Date(s): 12/19/2012 12/19/2012

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 18:15 23:58

GC Column: RXI-5 ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Diethylphthalate	1.470	1.475		0.3	
4-Chlorophenyl-phenylether	0.764	0.745		-2.5	
Fluorene	1.388	1.401		0.9	
4-Nitroaniline	0.284	0.281		-1.1	
4,6-Dinitro-2-methylphenol	0.129	0.127		-1.5	
n-Nitrosodiphenylamine	0.643	0.669		4.0	20.0
2,4,6-Tribromophenol	0.229	0.217		-5.2	
4-Bromophenyl-phenylether	0.247	0.248		0.4	
Hexachlorobenzene	0.270	0.268		-0.7	
Pentachlorophenol	0.163	0.155		-4.9	20.0
Phenanthrene	1.086	1.101		1.4	
Anthracene	1.082	1.098		1.5	
Carbazole	0.978	1.041		6.4	
Di-n-butylphthalate	1.282	1.333		4.0	
Fluoranthene	1.243	1.253		0.8	20.0
Pyrene	1.198	1.251		4.4	
Terphenyl-d14	0.892	0.888		-0.4	
Butylbenzylphthalate	0.526	0.554		5.3	
3,3-Dichlorobenzidine	0.421	0.421		0.0	
Benzo(a)anthracene	1.114	1.139		2.2	
Chrysene	1.046	1.077		3.0	
Bis(2-ethylhexyl)phthalate	0.740	0.791		6.9	
Di-n-octyl phthalate	1.152	1.211		5.1	20.0
Benzo(b)fluoranthene	1.187	1.209		1.9	
Benzo(k)fluoranthene	1.221	1.256		2.9	
Benzo(a)pyrene	1.090	1.131		3.8	20.0
Indeno(1,2,3-cd)pyrene	1.131	1.149		1.6	
Dibenzo(a,h)anthracene	1.074	1.114		3.7	
Benzo(g,h,i)perylene	1.057	1.067		0.9	

All other compounds must meet a minimum RRF of 0.010.

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: D5165 SAS No.: D5165 SDG No.: D5165

Instrument ID: BNA_G Calibration Date/Time: 12/22/2012 17:50

Lab File ID: BG008959.D Init. Calib. Date(s): 12/18/2012 12/18/2012

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 14:54 18:42

GC Column: RXI-5 ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.393	1.292		-7.3	
Phenol-d6	1.899	1.842		-3.0	
Phenol	2.039	1.928		-5.4	20.0
bis(2-Chloroethyl)ether	1.685	1.658		-1.6	
2-Chlorophenol	1.344	1.320		-1.8	
1,2-Dichlorobenzene	1.482	1.439		-2.9	
1,3-Dichlorobenzene	1.531	1.470		-4.0	
1,4-Dichlorobenzene	1.550	1.496		-3.5	20.0
2-Methylphenol	1.176	1.116		-5.1	
2,2-oxybis(1-Chloropropane)	1.437	1.352		-5.9	
3+4-Methylphenols	1.630	1.542		-5.4	
n-Nitroso-di-n-propylamine	1.228	1.140	0.050	-7.2	
Nitrobenzene-d5	0.481	0.475		-1.2	
Hexachloroethane	0.622	0.601		-3.4	
Nitrobenzene	0.562	0.558		-0.7	
Isophorone	0.973	0.942		-3.2	
2-Nitrophenol	0.204	0.204		0.0	20.0
2,4-Dimethylphenol	0.332	0.329		-0.9	
bis(2-Chloroethoxy)methane	0.548	0.547		-0.2	
2,4-Dichlorophenol	0.334	0.333		-0.3	20.0
1,2,4-Trichlorobenzene	0.395	0.416		5.3	
Naphthalene	1.079	1.087		0.7	
4-Chloroaniline	0.455	0.457		0.4	
Hexachlorobutadiene	0.229	0.242		5.7	20.0
4-Chloro-3-methylphenol	0.356	0.337		-5.3	20.0
2-Methylnaphthalene	0.760	0.793		4.3	
Hexachlorocyclopentadiene	0.285	0.315	0.050	10.5	
2,4,6-Trichlorophenol	0.417	0.428		2.6	20.0
2-Fluorobiphenyl	1.287	1.317		2.3	
2,4,5-Trichlorophenol	0.455	0.460		1.1	
2-Chloronaphthalene	1.220	1.262		3.4	
2-Nitroaniline	0.354	0.334		-5.7	
Dimethylphthalate	1.368	1.379		0.8	
Acenaphthylene	1.827	1.868		2.2	
2,6-Dinitrotoluene	0.379	0.383		1.1	
3-Nitroaniline	0.331	0.328		-0.9	
Acenaphthene	1.135	1.176		3.6	20.0
2,4-Dinitrophenol	0.124	0.192	0.050	54.8	
4-Nitrophenol	0.274	0.277	0.050	1.1	
Dibenzofuran	1.670	1.700		1.8	
2,4-Dinitrotoluene	0.485	0.510		5.2	

Form VII SV-1

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TRCE03

Lab Code: CHEM Case No.: D5165 SAS No.: D5165 SDG No.: D5165

Instrument ID: BNA_G Calibration Date/Time: 12/22/2012 17:50

Lab File ID: BG008959.D Init. Calib. Date(s): 12/18/2012 12/18/2012

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 14:54 18:42

GC Column: RXI-5 ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Diethylphthalate	1.260	1.294		2.7	
4-Chlorophenyl-phenylether	0.756	0.791		4.6	
Fluorene	1.393	1.434		2.9	
4-Nitroaniline	0.363	0.352		-3.0	
4,6-Dinitro-2-methylphenol	0.120	0.134		11.7	
n-Nitrosodiphenylamine	0.628	0.592		-5.7	20.0
2,4,6-Tribromophenol	0.190	0.214		12.6	
4-Bromophenyl-phenylether	0.240	0.248		3.3	
Hexachlorobenzene	0.232	0.245		5.6	
Pentachlorophenol	0.143	0.158		10.5	20.0
Phenanthrene	1.093	1.053		-3.7	
Anthracene	1.079	1.048		-2.9	
Carbazole	1.032	0.982		-4.8	
Di-n-butylphthalate	1.135	1.075		-5.3	
Fluoranthene	1.245	1.230		-1.2	20.0
Pyrene	1.158	1.144		-1.2	
Terphenyl-d14	0.779	0.799		2.6	
Butylbenzylphthalate	0.465	0.446		-4.1	
3,3-Dichlorobenzidine	0.381	0.382		0.3	
Benzo(a)anthracene	1.109	1.124		1.4	
Chrysene	1.020	1.046		2.5	
Bis(2-ethylhexyl)phthalate	0.662	0.635		-4.1	
Di-n-octyl phthalate	1.017	0.935		-8.1	20.0
Benzo(b)fluoranthene	1.235	1.250		1.2	
Benzo(k)fluoranthene	1.245	1.305		4.8	
Benzo(a)pyrene	1.155	1.164		0.8	20.0
Indeno(1,2,3-cd)pyrene	1.039	1.115		7.3	
Dibenzo(a,h)anthracene	1.029	1.106		7.5	
Benzo(g,h,i)perylene	1.027	1.123		9.3	

All other compounds must meet a minimum RRF of 0.010.

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LAB CHRONICLE

OrderID:	D5165	**OrderDate:**	12/13/2012 6:14:15 PM
Client:	TRC Companies, Inc.	**Project:**	Morris Park & Richmond Hill Yards
Contact:	Dan Warren	**Location:**	M43

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
D5165-01	**MW-39S**	**WATER**			**12/12/12**			**12/13/12**
			Metals Group3	6010B		12/14/12	12/14/12	

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Hit Summary Sheet
SW-846

SDG No.: D5165 **Order ID:** D5165

Client: TRC Companies, Inc. **Project ID:** Morris Park & Richmond Hill Yards

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : MW-39S									
D5165-01	MW-39S	WATER	Iron	59.800		40.8	25	50.0	ug/L
D5165-01	MW-39S	WATER	Manganese	1,580.000		3.400	5	10.0	ug/L

SAMPLE DATA

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Report of Analysis

Client:	TRC Companies, Inc.	Date Collected:	12/12/12
Project:	Morris Park & Richmond Hill Yards	Date Received:	12/13/12
Client Sample ID:	MW-39S	SDG No.:	D5165
Lab Sample ID:	D5165-01	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7439-89-6	Iron	59.8	N	1	40.8	25	50	ug/L	12/14/12	12/14/12	SW6010B
7439-96-5	Manganese	1580		1	3.4	5	10	ug/L	12/14/12	12/14/12	SW6010B

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group3				

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

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: TRC Companies, Inc. **SDG No.:** D5165

Contract: TRCE03 **Lab Code:** CHEM **Case No.:** D5165 **SAS No.:** D5165

Initial Calibration Source: EPA

Continuing Calibration Source: INORGANIC-VENTURES

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Iron	2358.45	5082	92.8	90 - 110	P	12/14/2012	13:39	LB64042
	Manganese	239.67	499	96.1	90 - 110	P	12/14/2012	13:39	LB64042
CCV01	Iron	2536.10	5000	101.4	90 - 110	P	12/14/2012	14:05	LB64042
	Manganese	1237.10	2500	99.0	90 - 110	P	12/14/2012	14:05	LB64042
CCV02	Iron	2455.80	5000	98.2	90 - 110	P	12/14/2012	15:35	LB64042
	Manganese	1206.95	2500	96.6	90 - 110	P	12/14/2012	15:35	LB64042
CCV03	Iron	2526.95	5000	101.1	90 - 110	P	12/14/2012	16:26	LB64042
	Manganese	1270.10	2500	101.6	90 - 110	P	12/14/2012	16:26	LB64042
CCV04	Iron	2544.55	5000	101.8	90 - 110	P	12/14/2012	17:17	LB64042
	Manganese	1234.40	2500	98.8	90 - 110	P	12/14/2012	17:17	LB64042
CCV05	Iron	2540.60	5000	101.6	90 - 110	P	12/14/2012	17:57	LB64042
	Manganese	1235.15	2500	98.8	90 - 110	P	12/14/2012	17:57	LB64042
CCV06	Iron	2541.00	5000	101.6	90 - 110	P	12/14/2012	18:40	LB64042
	Manganese	1251.45	2500	100.1	90 - 110	P	12/14/2012	18:40	LB64042
CCV07	Iron	2561.15	5000	102.4	90 - 110	P	12/14/2012	19:21	LB64042
	Manganese	1247.50	2500	99.8	90 - 110	P	12/14/2012	19:21	LB64042
CCV08	Iron	2502.85	5000	100.1	90 - 110	P	12/14/2012	20:01	LB64042
	Manganese	1244.35	2500	99.5	90 - 110	P	12/14/2012	20:01	LB64042
CCV09	Iron	2525.60	5000	101.0	90 - 110	P	12/14/2012	20:35	LB64042
	Manganese	1236.10	2500	98.9	90 - 110	P	12/14/2012	20:35	LB64042

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Metals

- 2b -

CRDL STANDARD FOR AA & ICP

Client: TRC Companies, Inc. **SDG No.:** D5165

Contract: TRCE03 **Lab Code:** CHEM **Case No.:** D5165 **SAS No.:** D5165

Initial Calibration Source:

Continuing Calibration Source: INORGANIC-VENTURES

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRI01	Iron	45.145	100	90.29	0 - 200	P	12/14/2012	13:46	LB64042
	Manganese	9.96	20	99.6	40 - 160	P	12/14/2012	13:46	LB64042

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: TRC Companies, Inc. **SDG No.:** D5165

Contract: TRCE03 **Lab Code:** CHEM **Case No.:** D5165 **SAS No.:** D5165

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Iron	40.8	+/-50.0	U	40.8	50.0	P	12/14/2012	13:43	LB64042
	Manganese	3.4	+/-10.0	U	3.4	10.0	P	12/14/2012	13:43	LB64042
CCB01	Iron	40.8	+/-50.0	U	40.8	50.0	P	12/14/2012	14:08	LB64042
	Manganese	3.4	+/-10.0	U	3.4	10.0	P	12/14/2012	14:08	LB64042
CCB02	Iron	40.8	+/-50.0	U	40.8	50.0	P	12/14/2012	15:49	LB64042
	Manganese	3.4	+/-10.0	U	3.4	10.0	P	12/14/2012	15:49	LB64042
CCB03	Iron	40.8	+/-50.0	U	40.8	50.0	P	12/14/2012	16:29	LB64042
	Manganese	3.4	+/-10.0	U	3.4	10.0	P	12/14/2012	16:29	LB64042
CCB04	Iron	40.8	+/-50.0	U	40.8	50.0	P	12/14/2012	17:21	LB64042
	Manganese	3.4	+/-10.0	U	3.4	10.0	P	12/14/2012	17:21	LB64042
CCB05	Iron	40.8	+/-50.0	U	40.8	50.0	P	12/14/2012	18:01	LB64042
	Manganese	3.4	+/-10.0	U	3.4	10.0	P	12/14/2012	18:01	LB64042
CCB06	Iron	40.8	+/-50.0	U	40.8	50.0	P	12/14/2012	18:43	LB64042
	Manganese	3.4	+/-10.0	U	3.4	10.0	P	12/14/2012	18:43	LB64042
CCB07	Iron	40.8	+/-50.0	U	40.8	50.0	P	12/14/2012	19:24	LB64042
	Manganese	3.4	+/-10.0	U	3.4	10.0	P	12/14/2012	19:24	LB64042
CCB08	Iron	40.8	+/-50.0	U	40.8	50.0	P	12/14/2012	20:05	LB64042
	Manganese	3.4	+/-10.0	U	3.4	10.0	P	12/14/2012	20:05	LB64042
CCB09	Iron	40.8	+/-50.0	U	40.8	50.0	P	12/14/2012	20:39	LB64042
	Manganese	3.4	+/-10.0	U	3.4	10.0	P	12/14/2012	20:39	LB64042

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Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: TRC Companies, Inc. **SDG No.:** D5165

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	MDL ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB67440BL		**WATER**		**Batch Number:**	**PB67440**			**Prep Date:**	**12/14/2012**	
	Iron	40.800	<50.000	U	40.800	50.000	P	12/14/2012	18:54	LB64042
	Manganese	3.400	<10.000	U	3.400	10.000	P	12/14/2012	18:54	LB64042

Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: TRC Companies, Inc. **SDG No.:** D5165

Contract: TRCE03 **Lab Code:** CHEM **Case No.:** D5165 **SAS No.:** D5165

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window	Analysis Date	Analysis Time	Run Number
ICSA01	Iron	46400	95600	97.1	80 - 120%	12/14/2012	13:52	LB64042
	Manganese	8.0	19	80.0	21 - 179%	12/14/2012	13:52	LB64042
ICSAB01	Iron	45700	94800	96.4	80 - 120%	12/14/2012	13:56	LB64042
	Manganese	252	502	100.4	80 - 120%	12/14/2012	13:56	LB64042

METAL QC DATA

metals
- 5a -
MATRIX SPIKE SUMMARY

client: TRC Companies, Inc. **level:** low **sdg no.:** D5165

contract: TRCE03 **lab code:** CHEM **case no.:** D5165 **sas no.:** D5165

matrix: WATER **sample id:** D5161-11 **client id:** RINSATE-1S

Percent Solids for Sample: 0 **Spiked ID:** D5161-11S **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Iron	ug/L	27 - 152	1375.2000		1112.7000		1500.00	17.5	N	P
Manganese	ug/L	10 - 168	87.0850		18.2050		100.00	68.9		P

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: TRC Companies, Inc. **level:** low **sdg no.:** D5165

contract: TRCE03 **lab code:** CHEM **case no.:** D5165 **sas no.:** D5165

matrix: WATER **sample id:** D5161-11 **client id:** RINSATE-1SD

Percent Solids for Sample: 0 **Spiked ID:** D5161-11SD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Iron	ug/L	27 - 152	1363.6000		1112.7000		1500.00	16.7	N	P
Manganese	ug/L	10 - 168	87.9300		18.2050		100.00	69.7		P

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Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client: TRC Companies, Inc. **SDG No.:** D5165

Contract: TRCE03 **Lab Code:** CHEM **Case No.:** D5165 **SAS No.:** D5165

Matrix: WATER **Level:** LOW **Client ID:** RINSATE-1A

Sample ID: D5161-11 **Spiked ID:** D5161-11A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Iron	ug/L	27 - 152	871.55		1112.70		1500.0	-16.1		P

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: TRC Companies, Inc. **Level:** LOW **SDG No.:** D5165

Contract: TRCE03 **Lab Code:** CHEM **Case No.:** D5165 **SAS No.:** D5165

Matrix: WATER **Sample ID:** D5161-11 **Client ID:** RINSATE-1D

Percent Solids for Sample: 0 **Duplicate ID** D5161-11D **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Iron	ug/L	20	1112.7000		1107.6999		0.5		P
Manganese	ug/L	20	18.2050		18.0600		0.8		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: TRC Companies, Inc. **Level:** LOW **SDG No.:** D5165

Contract: TRCE03 **Lab Code:** CHEM **Case No.:** D5165 **SAS No.:** D5165

Matrix: WATER **Sample ID:** D5161-11 **Client ID:** RINSATE-1SD

Percent Solids for Sample: 0 **Duplicate ID** D5161-11SD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Iron	ug/L	20	1375.2000		1363.6000		0.8		P
Manganese	ug/L	20	87.0850		87.9300		1.0		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

Metals

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: TRC Companies, Inc. **SDG No.:** D5165

Contract: TRCE03 **Lab Code:** CHEM **Case No.:** D5165 **SAS No.:** D5165

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB67440BS							
Iron	ug/L	3000	1454.95		97.0	79 - 112	P
Manganese	ug/L	200	99.75		99.8	10 - 115	P

Metals

-9 -

ICP SERIAL DILUTIONS

SAMPLE NO.

RINSATE-1L

Lab Name: Chemtech Consulting Group **Contract:** TRCE03

Lab Code: CHEM **Case No.:** D5165 **SAS No.:** D5165 **SDG No.:** D5165

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
Iron	1112.70		1487.63		33.7		P
Manganese	18.21		25.70	J	41.1		P

METAL PREPARATION & INSTRUMENT DATA

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Metals

- 10 -
METHOD DETECTION LIMITS

Client: TRC Companies, Inc. **SDG No.:** D5165

Contract: TRCE03 **Lab Code:** CHEM **Case No.:** D5165 **SAS No.:** D5165

Instrument ID: P4 **Date:** 02/14/2009 **Preparation Method:**

Analyte	Wave- length (nm)	MDL ug/L	CRQL ug/L	Date: 02/14/2009
Matrix Category:	**LIQUID**			
Iron	240.48	40.80	100.0	
Manganese	257.61	3.40	20.0	

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: TRC Companies, Inc. **SDG No.:** D5165

Contract: TRCE03 **Lab Code:** CHEM **Case No.:** D5165 **SAS No.:** D5165

Instrument ID: P4 **Date:** 01/09/2012

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Al	Ca	Fe	Mg	Ag
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: TRC Companies, Inc. **SDG No.:** D5165

Contract: TRCE03 **Lab Code:** CHEM **Case No.:** D5165 **SAS No.:** D5165

Instrument ID: P4 **Date:** 01/09/2012

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: As	Ba	Be	Cd	Co
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: TRC Companies, Inc. **SDG No.:** D5165

Contract: TRCE03 **Lab Code:** CHEM **Case No.:** D5165 **SAS No.:** D5165

Instrument ID: P4 **Date:** 01/09/2012

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Cr	Cu	K	Mn	Mo
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0019650	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: TRC Companies, Inc. **SDG No.:** D5165

Contract: TRCE03 **Lab Code:** CHEM **Case No.:** D5165 **SAS No.:** D5165

Instrument ID: P4 **Date:** 01/09/2012

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Na	Ni	Pb	Sb	Se
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0030850	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: TRC Companies, Inc. **SDG No.:** D5165

Contract: TRCE03 **Lab Code:** CHEM **Case No.:** D5165 **SAS No.:** D5165

Instrument ID: P4 **Date:** 01/09/2012

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Sn	Ti	Tl	V	Zn
Iron	240.488	0.0034480	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Metals

- 12 -
LINEAR RANGES

Client: TRC Companies, Inc. **SDG No.:** D5165

Contract: TRCE03 **Lab Code:** CHEM **Case No.:** D5165 **SAS No.:** D5165

Instrument ID: P4 **Date:** 07/19/2011

Analyte	Integration Time (sec)	LDR ug/L
Iron	10	2300000
Manganese	10	200000

METAL PREPARATION & ANALYICAL SUMMARY

Metals
- 13 -
SAMPLE PREPARATION SUMMARY

Client: TRC Companies, Inc. **SDG No.:** D5165

Contract: TRCE03 **Lab Code:** CHEM **Method:** P

Case No.: D5165 **SAS No.:** D5165

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB67440**						
D5161-11D	RINSATE-1D	DUP	WATER	12/14/2012	50.0	25.0	
D5161-11S	RINSATE-1S	MS	WATER	12/14/2012	50.0	25.0	
D5161-11SD	RINSATE-1SD	MSD	WATER	12/14/2012	50.0	25.0	
D5165-01	MW-39S	SAM	WATER	12/14/2012	50.0	25.0	
PB67440BL	PB67440BL	MB	WATER	12/14/2012	50.0	25.0	
PB67440BS	PB67440BS	LCS	WATER	12/14/2012	50.0	25.0	

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.:** D5165 **SAS No.:** D5165 **SDG No.:** D5165

Instrument ID Number: P4 **Method:** P **Run Number:** LB64042

Start Date: 12/14/2012 **End Date:** 12/14/2012

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1	1302												X			X										
S1	1	1305												X			X										
S2	1	1308																									
S3	1	1312												X			X										
S4	1	1315												X			X										
S5	1	1318												X			X										
ICV01	1	1339												X			X										
ICB01	1	1343												X			X										
CRI01	1	1346												X			X										
CRI02	1	1349																									
ICSA01	1	1352												X			X										
ICSAB01	1	1356												X			X										
CCV01	1	1405												X			X										
CCB01	1	1408												X			X										
CCV02	1	1535												X			X										
CCB02	1	1549												X			X										
CCV03	1	1626												X			X										
CCB03	1	1629												X			X										
CCV04	1	1717												X			X										
CCB04	1	1721												X			X										
CCV05	1	1757												X			X										
CCB05	1	1801												X			X										
CCV06	1	1840												X			X										
CCB06	1	1843												X			X										
PB67440BL	1	1854												X			X										
PB67440BS	1	1857												X			X										
RINSATE-1D	1	1904												X			X										
RINSATE-1S	1	1907												X			X										
RINSATE-1SD	1	1910												X			X										
RINSATE-1A	1	1914												X													
RINSATE-1L	5	1917												X			X										
CCV07	1	1921												X			X										
CCB07	1	1924												X			X										
MW-39S	1	1931												X			X										
CCV08	1	2001												X			X										
CCB08	1	2005												X			X										
CCV09	1	2035												X			X										
CCB09	1	2039												X			X										

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. D5165
QUOTE NO.
COC Number 022213

8 8.1

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: TRC
ADDRESS: 1430 Broadway
CITY: New York STATE: NY ZIP: 10018
ATTENTION: Dan Warren
PHONE: (917) 232-9837 FAX: (860) 298-6395

CLIENT PROJECT INFORMATION

PROJECT NAME: LIRR MP1 + RH1
PROJECT NO.: 185138 LOCATION: Queens, NY
PROJECT MANAGER: Dan Warren
e-mail: dwarren@trcsolutions.com
PHONE: (917) 232-9837 FAX: (860) 298-6399

CLIENT BILLING INFORMATION

BILL TO: PO#:
ADDRESS:
CITY: STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX: 10 DAYS *
HARD COPY: 10 DAYS *
EDD: 10 DAYS *
PREAPPROVED TAT: ☐ YES ☐ NO
* STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ LEVEL 1: Results only ☐ Others
☐ LEVEL 2: Results + QC As per contract
☐ LEVEL 3: Results (plus results raw data) + QC
☐ LEVEL 4: Results + QC (all raw data)
☐ EDD Format:

ANALYSIS

1 VOCs 2 SVOCs 3 TCL + Target Analytes, Manganese 4 MS/MSD 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	2	3	4	5	6	7	8	9	COMMENTS
								A	E		B						← Specify Preservatives A–HCl B–HNO_3 C–H_2SO_4 D–NaOH E–ICE F–Other
1.	MW-39S	GW		X	12/12/12	0935	6	3	2	F	1						
2.	DUP-A					1700	5	3	2								
3.	MW-35S					1118	5	3	2								
4.	MW-GF-6					0920	5	3	2								
5.	MW-GF-9					1040	5	3	2								
6.	MW-34S					1200	5	3	2								
7.	MW-GF-7					1320	5	3	2								
8.	MW-36S					1225	5	3	2								
9.	~~MW-GF-18RA~~				RA	~~1305~~	~~15~~	~~9~~	~~6~~								
DT 12/14/12	9,10,11 MW-GF-18					1315	15	9	6			X					

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	12/13/12 1500	1.
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:
2.		2.
RELINQUISHED BY:	DATE/TIME:	RECEIVED FOR LAB BY:
3.	12.13.12 1730	3.

Conditions of bottles or coolers at receipt: ☑ Compliant ☐ Non Compliant
MeOH extraction requires an additional 4 oz jar for percent solid.
Comments:

Cooler Temp. 5c
Ice in Cooler?: yes

Page 1 of 2

SHIPPED VIA: CLIENT: ☐ HAND DELIVERED ☐ OVERNIGHT CHEMTECH: ☑ PICKED UP ☐ OVERNIGHT

Shipment Complete: ☐ YES ☐ NO

Revision 8/2007

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. D5165
QUOTE NO.
COC Number 022228

8
8.1

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: TRC
ADDRESS: 1430 Broadway
CITY: NYC STATE: NY ZIP: 10018
ATTENTION: Dan Warren
PHONE: (917) 232-9537 FAX: (800) 298-6399

CLIENT PROJECT INFORMATION

PROJECT NAME: LIRR MP4 + RH4
PROJECT NO: 185138 LOCATION: Queens, NY
PROJECT MANAGER: Dan Warren
e-mail: dwarren@trcsolutions.com
PHONE: (917) 282-9537 FAX: (800) 298-6399

CLIENT BILLING INFORMATION

BILL TO: PO#:
ADDRESS:
CITY: STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX: 10 DAYS *
HARD COPY: 15 DAYS *
EDD: 15 DAYS *
PREAPPROVED TAT: ☐ YES ☐ NO
* STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ LEVEL 1: Results only ☐ Others
☐ LEVEL 2: Results + QC As per Contract
☐ LEVEL 3: Results (plus results raw data) + QC
☐ LEVEL 4: Results + QC (all raw data)
☐ EDD Format:

ANALYSIS

1 VOC 2 SVOC 3 4 MS/MSD 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	2	3	4	5	6	7	8	9	COMMENTS
1.12	EQUIPMENT BLANK	WW		X	12/12/12	1419	5	3	2								
2.13	MW-GF-15	GW		X	12/13/12	0905	5	3	2								
3.14	MW-GF-17	GW		X	12/13/12	1020	5	3	2								
4.15,16,17	MW-1-60	GW		X	12/13/12	1300	15	3	2	X							
5.18	DMW-5	GW		X	12/13/12	1430	5	3	2								
6.19	EQUIPMENT BLANK	WW		X	12/13/12	1400	5	3	2								
7.																	
8.																	
9.																	
10.																	

DDT 2/14/13

Specify Preservatives: A – HCl B – HNO_3 C – H_2SO_4 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.	12/13/12 1500	1.
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:
2.		2.
RELINQUISHED BY:	DATE/TIME:	RECEIVED FOR LAB BY:
3.	12.13.12 1730	3.

Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant
MeOH extraction requires an additional 4 oz jar for percent solid.
Comments:

Cooler Temp. 5°
Ice in Cooler?: Yes

Page 2 of 2

SHIPPED VIA: CLIENT: ☐ HAND DELIVERED ☐ OVERNIGHT
CHEMTECH: ☑ PICKED UP ☐ OVERNIGHT

Shipment Complete: ☐ YES ☐ NO

Revision 8/2007

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

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

State	License No.
New Jersey	20012
New York	11376
Connecticut	PH-0649
Florida	E87935
Maryland	296
Massachusetts	M-NJ503
Oklahoma	9705
Pennsylvania	68-548
Rhode Island	LAO00259
Virginia	460220
Texas	T10470448-10-1

Other:

DOD ELAP	L2219
Soil Permit	P330-11-00012
CLP Inorganic Contract	EPW09038
CLP Organic Contract	EPW11030

QA Control Code: A2070148

CHEMTECH

LOGIN REPORT/SAMPLE TRANSFER

Order ID:	D5165 TRCE03	**Order Date:**	12/13/2012	**Project Mgr:**	JohnD
Client Name:	TRC Companies, Inc.	**Project Name:**	Morris Park & Richmond Hill Yar	**Report Type:**	Results+QC
Client Contact:	Dan Warren	**Rec DateTime**	12/13/2012 5:30:00 PM	**EDD:**	EXCEL NOCLEANUP
Invoice Name:	TRC Companies, Inc.	**Purchase Order:**	51237	**Hard Copy Date:**	
Invoice Contact:	Dan Warren	**Login Tech:**	Nikul	**Date Signoff:**	12/14/2012 11:46:55 A

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	QTY	TEST	TEST GROUP	METHOD	COMMENT	FAX DATE	Due Dates
D5165-01	MW-39S	Water	12/12/2012	9:35	6	VOCMS Group1		8260-Low	10 Bus.	2/26/2012	12/26/2
D5165-02	DUP-A	Water	12/12/2012	17:00	5	VOCMS Group1		8260-Low	10 Bus.	2/26/2012	12/26/2
D5165-03	MW-35S	Water	12/12/2012	11:18	5	VOCMS Group1		8260-Low	10 Bus.	2/26/2012	12/26/2
D5165-04	MW-GF-6	Water	12/12/2012	9:20	5	VOCMS Group1		8260-Low	10 Bus.	2/26/2012	12/26/2
D5165-05	MW-GF-9	Water	12/12/2012	10:40	5	VOCMS Group1		8260-Low	10 Bus.	2/26/2012	12/26/2
D5165-06	MW-34S	Water	12/12/2012	12:00	5	VOCMS Group1		8260-Low	10 Bus.	2/26/2012	12/26/2
D5165-07	MW-GF-7	Water	12/12/2012	13:20	5	VOCMS Group1		8260-Low	10 Bus.	2/26/2012	12/26/2
D5165-08	MW-36S	Water	12/12/2012	12:25	5	VOCMS Group1		8260-Low	10 Bus.	2/26/2012	12/26/2
D5165-09	MW-GF-18	Water	12/12/2012	13:15	5	VOCMS Group1		8260-Low	10 Bus.	2/26/2012	12/26/2
D5165-10	D5165-09MS	Water	12/12/2012	13:15	5	VOCMS Group1		8260-Low	10 Bus.	2/26/2012	12/26/2
D5165-11	D5165-09MSD	Water	12/12/2012	13:15	5	VOCMS Group1		8260-Low	10 Bus.	2/26/2012	12/26/2

LOGIN REPORT/SAMPLE TRANSFER

Order ID:	D5165 TRCE03	**Order Date:**	12/13/2012	**Project Mgr:**	JohnD
Client Name:	TRC Companies, Inc.	**Project Name:**	Morris Park & Richmond Hill Yar	**Report Type:**	Results+QC
Client Contact:	Dan Warren	**Rec DateTime**	12/13/2012 5:30:00 PM	**EDD:**	EXCEL NOCLEANUP
Invoice Name:	TRC Companies, Inc.	**Purchase Order:**	51237	**Hard Copy Date:**	
Invoice Contact:	Dan Warren	**Login Tech:**	Nikul	**Date Signoff:**	12/14/2012 11:46:55 A

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	QTY	TEST	TEST GROUP	METHOD	COMMENT	FAX DATE	Due Dates
D5165-12	EQUIPMENTBLANK	Water	12/12/2012	14:19	5						
							VOCMS Group1	8260-Low		10 Bus.	2/26/2012 12/26/2
D5165-13	MW-GF-15	Water	12/13/2012	9:05	5						
							VOCMS Group1	8260-Low		10 Bus.	2/27/2012 12/27/2
D5165-14	MW-GF-17	Water	12/13/2012	10:20	5						
							VOCMS Group1	8260-Low		10 Bus.	2/27/2012 12/27/2
D5165-15	MW-1-60	Water	12/13/2012	13:00	5						
							VOCMS Group1	8260-Low		10 Bus.	2/27/2012 12/27/2
D5165-16	D5165-15MS	Water	12/13/2012	13:00	5						
							VOCMS Group1	8260-Low		10 Bus.	2/27/2012 12/27/2
D5165-17	D5165-15MSD	Water	12/13/2012	13:00	5						
							VOCMS Group1	8260-Low		10 Bus.	2/27/2012 12/27/2
D5165-18	DMW-5	Water	12/13/2012	14:30	5						
							VOCMS Group1	8260-Low		10 Bus.	2/27/2012 12/27/2
D5165-19	EQUIPMENTBLANK	Water	12/13/2012	14:00	5						
							VOCMS Group1	8260-Low		10 Bus.	2/27/2012 12/27/2

LOGIN REPORT/SAMPLE TRANSFER

Order ID:	D5165 TRCE03	**Order Date:**	12/13/2012	**Project Mgr:**	JohnD
Client Name:	TRC Companies, Inc.	**Project Name:**	Morris Park & Richmond Hill Yar	**Report Type:**	Results+QC
Client Contact:	Dan Warren	**Rec DateTime**	12/13/2012 5:30:00 PM	**EDD:**	EXCEL NOCLEANUP
Invoice Name:	TRC Companies, Inc.	**Purchase Order:**	51237	**Hard Copy Date:**	
Invoice Contact:	Dan Warren	**Login Tech:**	Nikul	**Date Signoff:**	12/14/2012 11:46:55 A

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	QTY	TEST	TEST GROUP	METHOD	COMMENT	FAX DATE	Due Dates

SAMPLE CONDITION RECORD

Are samples submitted with a chain of custody?	Yes
Are the number of samples the same as stated on the chain of custody?	Yes
Are bottle caps tight and securely in place?	Yes
Were all containers intact when received?	Yes
Were samples submitted in an ice chest?	Yes
Were samples received cold?	Yes
Were samples within the holding time for the requested test(s)?	Yes
Is the volume of sample submitted sufficient for the requested test(s)?	Yes
Are all samples for volatile organic analyses free of headspace?	Yes

Relinquished By: Palak Shah
Date / Time: 12/14/12 1330

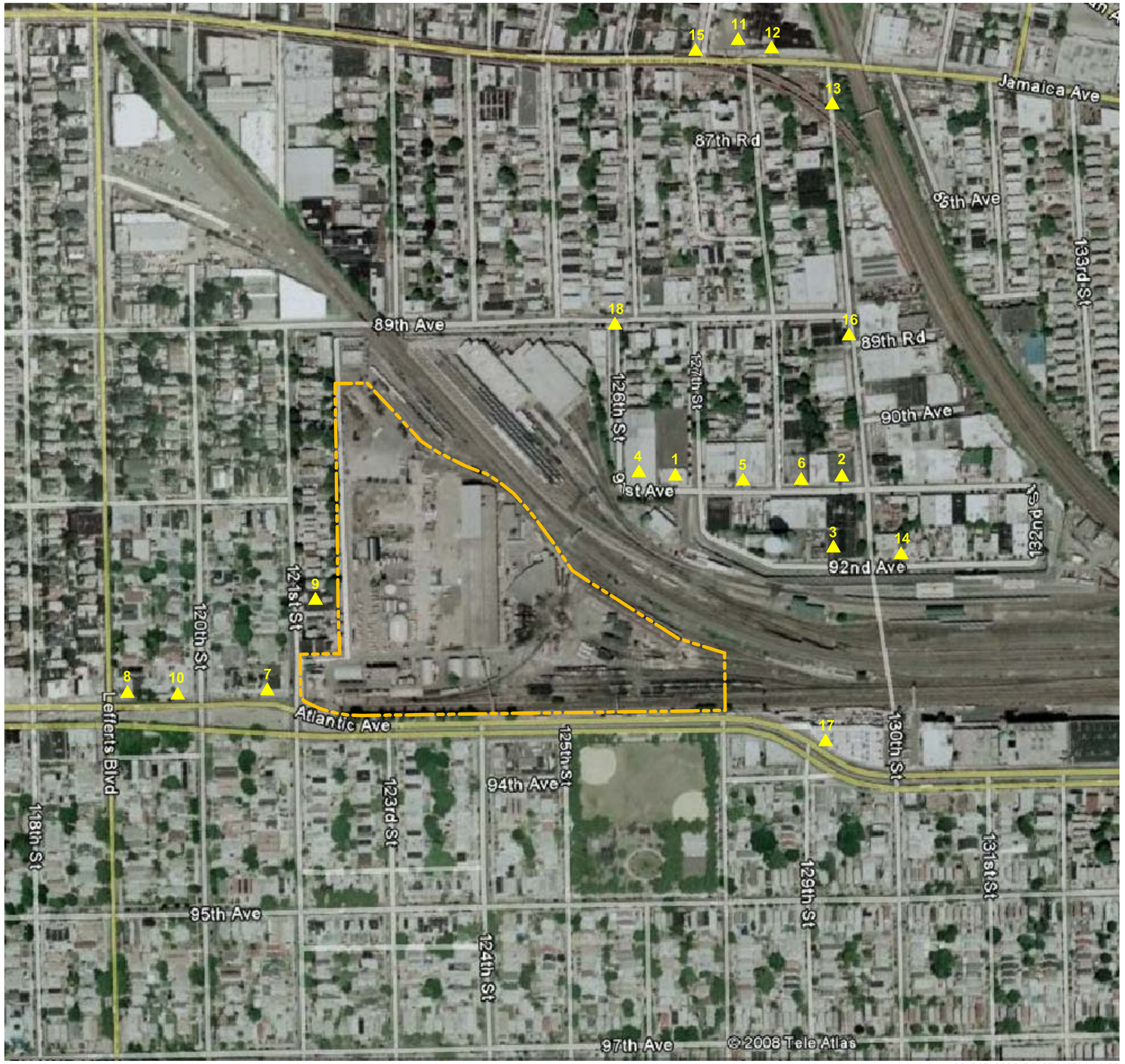
Received By: Nikul Pathak
Date / Time: 12-14-12 13:30

Storage Area: VOA Refridgerator Room

ORDER COMMENT

metals group=iron ang Manganese

ATTACHMENT H



SOURCE: GOOGLE EARTH AERIAL IMAGE.

NORTH

LEGEND

SITE NO.	FACILITY NAME (S)	FACILITY ADDRESS	REASON FOR LISTING	SOURCE
1	Richmond Hill Foundry	7-25 91st Avenue	Potential Historic Solvent Use	Historic Sanborn Maps (1911, 1925, 1942, 1951)
2	Knitting & Worsten Mill	129-17 to 129-23 91st Avenue	Potential Historic Solvent Use	Historic Sanborn Maps (1963, 1967)
3	Ernst Ruettgers Nail Manufacturer Richmond Hill Laundry Miller Plastics Inc. replacing Richmond Hill Laundry	127-53 92nd Avenue	Potential Historic Solvent Use	Historic Sanborn Map (1925) Historic Sanborn Maps (1942, 1951) Historic Sanborn Map (1963)
4	W^{M}. H. Nicholls Co. Inc. Machine Shop Leib Iron Works (replacing W^{M}. H. Nicholls Co. Inc.)	89-51 126th Street	Potential Historic Solvent Use	Historic Sanborn Maps (1942, 1951) Historic Sanborn Maps (1963, 1968, 1981, 1991, 1996)
5	Laundry Plant Plastic Quilting Company replacing laundry plant	19-39 to 19-51 127th Street	Potential Historic Solvent Use	Historic Sanborn Maps (1951) Historic Sanborn Maps (1963, 1968, 1981, 1991, 1996)
6	Carpet Cleaning Company	89-11 to 89-44 129th Street	Potential Historic Solvent Use	Historic Sanborn Map (1942)
7	Machine Shop Unexcelled Laundry System replacing Machine Shop	9-162 121st Street (NW corner of Atlantic Ave and 121st Street)	Potential Historic Solvent Use	Historic Sanborn Map (1925) Historic Sanborn Maps (1951, 1963, 1967)
8	Auto Repair Shop	91-61 Lefferts Blvd (NE corner of Atlantic Ave and Lefferts Blvd)	Potential Historic Solvent Use	Historic Sanborn Map (1951, 1963)
9	Ink Manufacturer Engraver	91-31 121st Street	Potential Historic Solvent Use Potential Historic Solvent Use	Historic Sanborn Map (1963) Historic Sanborn Map (1967)
10	Auto Repair Shop	91-62 120th Street	Potential Historic Solvent Use	Historic Sanborn Map (1981)
11	Uniforms For Industry	129-01 Jamaica Avenue	VCP Site, with documented solvent-related groundwater contamination	Database Report
12	Axel Electronics Inc.	134-20 Jamaica Avenue	RCRA-SQG of Solvent Waste	Database Report
13	Raymac Cabinet Company	87-49 130th Street	RCRA-SQG of Solvent Waste	Database Report
14	Automax Manufacturing Company	130-50 92nd Avenue	RCRA-SQG of Solvent Waste	Database Report
15	NYCTA - 129th Street Yard	129th Street and Jamaica Avenue	RCRA-LQG of Solvent Waste	Database Report
16	Demetri Auto Body Inc.	89-25 130th Street	RCRA-SQG of Solvent Waste	Database Report
17	Diehl & Sons, Inc.	129-01 Atlantic Avenue	RCRA-SQG of Solvent Waste	Database Report
18	Machine Auto Body	89-19 126th Street	RCRA-SQG of Solvent Waste	Database Report

RCRA-SQG: Resource Conservation and Recovery Act (RCRA) Small Quantity Generator of Hazardous Waste
RCRA-LQG: RCRA Large Quantity Generator of Hazardous Waste

APPROXIMATE SITE BOUNDARY

2 APPROXIMATE SITE LOCATION AND SITE NUMBER AS REFERENCED IN TABLE ABOVE

REVISIONS			
NO.	DESCRIPTION	BY	DATE

PAPER SIZE: 18" x 24"

TRC
1430 BROADWAY, 10TH FLOOR
NEW YORK, NEW YORK 10018

DESIGN BY: WS
DRAWN BY: LB
CHECK BY: DSG
DATE: JANUARY 2009
SCALE: NOT TO SCALE
PROJECT NUMBER: 107865-0010-0000

PROJECT NAME:
LONG ISLAND RAIL ROAD
MORRIS PARK YARD
REMEDIAL INVESTIGATION REPORT

DRAWING TITLE:
POTENTIAL SOURCES OF CHLORINATED SOLVENTS IN SURROUNDING AREA

FIGURE 14

Path\Name: M:\Cad Files\Vision projects\164148\Autocad\Figure 14 - Potential Sources of Solvents in Surrounding Area.dwg - Date\Time: Thu, 05 Feb 2009 - 11:20am - User Name: lbochkis - Layout Tab: 11X17