Third Quarter 2023 Groundwater, Surface Water Sampling, and Analysis Report

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Prepared for:
Clark County, Washington, and
Washington State Department of Ecology

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1 INTRODUCTION

This report documents the results of third quarter 2023 groundwater and surface water monitoring at the Camp Bonneville Military Reservation (Camp Bonneville) in Vancouver, Washington (Figure 1). The work was performed by PBS Engineering and Environmental Inc. (PBS) under contract with Clark County (County).

Groundwater and surface water monitoring was performed in accordance with the Health and Safety Plan (HASP) for Groundwater and Surface Water Monitoring Activities,[1] the Supplemental Groundwater and Surface Water Remedial Investigation Sampling and Analysis Plan and Quality Assurance Project Plan (SAP/QAPP),[2] and Amendment #1 to the SAP/QAPP.[3] Laboratory analytical services were provided by Anatek Labs located in Moscow, Idaho, under contract with PBS.

Acronyms used in this report are defined on first use. Please refer to Appendix A for a list of acronyms and abbreviations.

2 Site Background

2.1 Site History

Camp Bonneville comprises approximately 3,840 acres in southwestern Washington, located approximately 10 miles northeast of Vancouver (Figure 1). The United States Army used Camp Bonneville for live firing small arms, assault weapons, and field and air defense artillery between 1910 and 1995. Since 1947, Camp Bonneville has also provided training for a variety of military and nonmilitary units including the National Guard, Army Reserves, Air Force, and federal, state, and local law enforcement agencies.

In July 1995, Camp Bonneville was selected for closure under the 1995 Base Realignment and Closure (BRAC) process to be transferred to the County for public benefit, education, law enforcement training, and parks. Transfer of Camp Bonneville to the Trust for Public Land, and subsequently to the County, began 11 years later in 2006. On October 3, 2006, the County entered a Prospective Purchaser Consent Decree with the Washington State Department of Ecology (Ecology) that required investigating and remediating the site.

Ordnance and explosive (OE) items were found within Camp Bonneville's boundaries[4] and removal efforts of OE were performed. Some of the OE items were determined to be unexploded ordnance (UXO). Current activities include assessment and management of OE and UXO by qualified munitions contractors with knowledge and experience in military ordnance, ordnance components, explosives location, identification, render safe, recovery and removal, transportation, and disposal safety precautions. The historical use and storage of OE and UXO have impacted groundwater at Camp Bonneville, and monitoring these impacts is the purpose of this monitoring event.

2.2 Camp Bonneville Geology

Camp Bonneville is situated north of the Portland Basin in the foothills of the Cascade Range. The general area consists of Eocene and Miocene volcanic and sedimentary rocks, with Holocene sedimentary rocks in valleys

[1] PBS (PBS Engineering and Environmental Inc.). (2017, November 16). *Health and Safety Plan for Groundwater and Surface Water Monitoring Activities*.
[2] PBS (2018, February 22). *Supplemental Groundwater and Surface Water Remedial Investigation Sampling and Analysis Plan and Quality Assurance Project Plan, Remedial Action Units 2C and 3, Camp Bonneville, 23201 NE Pluss Road, Vancouver, Washington 98682*.
[3] PBS (2019, March 5). *Amendment #1 – Changes to Table 4-1A and 4-1B in the Supplemental Groundwater and Surface Water Remedial Investigation Sampling and Analysis Plan and Quality Assurance Project Plan, Remedial Action Units 2C and 3, Dated February 2018, Camp Bonneville, Vancouver, Washington*.
[4] Shannon & Wilson. (1999). *Multi-Sites Investigation Report, Camp Bonneville, Vancouver, Washington,* (Vol. 1). Contract No. DACA67-94-D-1014.

and areas where gravels of the Troutdale Formation can be found.[5] The geology at Camp Bonneville can be divided into three general areas that correspond approximately to topographic divisions.[6]

Lacamas Creek flows through Camp Bonneville from the northeast to the southwest. The area west of Lacamas Creek comprises a series of predominantly gravelly and semi-consolidated conglomerate with scattered lenses and stringers of sand (Upper Troutdale formation). Underlying this formation and comprising the area to the north and east of Lacamas Creek are folded and faulted basalt flows, flow breccia, and pyroclastic and andesitic rocks.

The northwest portion of the site is located on a terrace where the land slopes down from the west, north, and east. Two tributaries exit ravines at the north end of the terrace and drain across the western edge to become North Fork Lacamas Creek. The terraced area likely resulted from an accumulation of material historically transported by the tributaries, contributing to the predominantly low- to medium-plasticity clay observed in the borings for the wells installed in this area. According to the boring logs in the landfill/demolition area (Landfill 4/Demolition Area 1), competent bedrock (andesite) was encountered between 440 and 460 feet above mean sea level (amsl), which is approximately 50 to 75 feet below ground surface (bgs). Sub-rounded and sub-angular gravel in the borings point to colluvial deposition of the soil.

The southwest corner of Camp Bonneville is where Lacamas Creek exits the site. The valley floor along Lacamas Creek contains unconsolidated silt, sand, and gravel valley fill, with some clay.

3 SITEWIDE GROUNDWATER MONITORING PROGRAM

3.1 Project Objectives

The overall objectives of site investigations at Camp Bonneville have been to identify contaminated areas and determine the next appropriate steps toward their restoration. Contaminated areas at Camp Bonneville have been divided into five remedial action units (RAUs) that are differentiated by the nature of a contaminant. This quarterly report describes the results of ongoing monitoring of RAU 2C (sitewide groundwater) to assist with achieving the goal of site restoration.

Two areas associated with RAU 2C are currently being monitored, which are Landfill 4/Demolition Area 1, located in the northwest portion of the site, and Base Boundary at Lacamas Creek (Base Boundary), located in the southwest portion of the site (Figure 2). Wells have been installed in these areas to monitor shallow and deeper groundwater zones to maximum depths of approximately 75 feet bgs.

3.2 Chemicals of Potential Concern

Historical uses of Camp Bonneville's upgradient areas include firing ranges, landfills, open burning locations, open detonation locations, and general maintenance facilities. Chemicals of potential concern (COPCs) include artillery propellants, high explosives residue, missile/rocket propellants, petroleum hydrocarbons, semi-volatile organic compounds (SVOCs), volatile organic compounds (VOCs), and metals. A summary of COPCs is provided in the SAP/QAPP, along with specific analytes and laboratory analysis methods, sample container types, preservation techniques, holding times, and data quality objectives (DQOs).

[5] Phillips, W.M. (1987). [Map]. Geologic Map of the Vancouver Quadrangle, Washington and Oregon: Washington Division of Geology and Earth Resources Open File Report 87-10, scale 1:100,000.
[6] Otak, Inc. (1998, September, 2nd Revision 2005, November 15). *Camp Bonneville Reuse Plan.* Prepared for The Camp Bonneville Local Redevelopment Authority (LRA).

Results from long-term monitoring indicate analysis for specific COPCs is warranted to assess contaminant levels throughout Camp Bonneville and to determine if impacts are leaving the site. For RAU 2C (analyzed at Landfill 4/Demolition Area 1 and Base Boundary), the COPC list for quarterly monitoring is as follows:

- Explosives by Environmental Protection Agency (EPA) Method 8330
- Perchlorate by EPA Method 6850
- VOCs by EPA Method 8260
- Field measurements of temperature, specific conductivity, dissolved oxygen (DO), pH, oxidation reduction potential (ORP), turbidity, and depth to water levels

For each quarter, analysis for the following COPCs occurs at three on-site water supply wells:

- Explosives by EPA Method 8330
- Perchlorate by EPA Method 6850
- VOCs by EPA Method 8260
- Field measurements of temperature, specific conductivity, DO, pH, and ORP

In the third quarter of each year, three surface water samples are collected to determine if groundwater is impacting surface water at the site. The COPC list for the surface water samples is as follows:

- 1,3,5-Trinitro-1,3,5-triazinane (RDX) by EPA Method 8330
- Perchlorate by EPA Method 6850
- Field measurements of temperature, specific conductivity, DO, pH, ORP, and turbidity
- Observations of stream conditions are noted on the field form

In the fourth quarter of each year, analysis for the following additional COPCs occurs at the Base Boundary wells:

- Priority pollutant metals by EPA Methods 6020/7470
- SVOCs by EPA Method 8270

3.3 Monitoring Program Locations

The current RAU 2C Camp Bonneville monitoring program requires groundwater sampling and analysis for 28 monitoring wells, shown on Figure 3 (Base Boundary) and Figure 4 (Landfill 4/Demolition Area 1). In addition, three water supply wells are sampled quarterly, and three surface water locations are sampled annually.

3.3.1 Monitoring Well Information

Over the years, different numerical designations have been assigned to monitoring wells at the investigation areas. PBS uses the numbering system assigned by the US Army Center for Health Promotion and Preventive Medicine (CHPPM) in prior remedial investigation (RI) reports. Table 1 provides well information, including the monitoring well numbers used by PBS, Ecology well tag numbers, and well identification numbers for the Base Boundary and Landfill 4/Demolition Area 1 wells. The table also identifies the investigation area for each well, along with total depth, screened interval, and top-of-casing elevation. [7]

The monitoring wells located at Base Boundary and Landfill 4/Demolition Area 1 are listed below (S or A = shallow well; D or B = deeper well) according to the CHPPM numbers.

[7] PBS. (2004b, August 16). *Monitoring Well Installation Report, Landfill 4/Lacamas Creek: Camp Bonneville, Vancouver, Washington.*

- Base Boundary
  - Paired Monitoring Wells: LC-MW01S and LC-MW01D
  - Paired Monitoring Wells: LC-MW02S and LC-MW02D
  - Paired Monitoring Wells: LC-MW03S and LC-MW03D
  - Paired Monitoring Wells: LC-MW04S and LC-MW04D
  - Paired Monitoring Wells: LC-MW09S and LC-MW09D
- Landfill 4/Demolition Area 1
  - Monitoring Well L4-MW17
  - Monitoring Well L4-MW18
  - Paired Monitoring Wells: L4-MW01A and L4-MW01B
  - Paired Monitoring Wells: L4-MW02A and L4-MW02B
  - Paired Monitoring Wells: L4-MW03A and L4-MW03B
  - Monitoring Well L4-MW04A
  - Monitoring Well L4-MW05A
  - Monitoring Well L4-MW07B
  - Paired Monitoring Wells: L4-MW08A and L4-MW08B
  - Paired Monitoring Wells: L4-MW09A and L4-MW09B
  - Paired Monitoring Wells: L4-MW10A and L4-MW10B
  - Monitoring Well L4-MW11B

3.4 Third Quarter 2023 Scope of Work

Monitoring activities include the following:

- Depth to water measurements from the currently sampled monitoring well network
- Collection and analysis of groundwater samples from Landfill 4/Demolition Area 1 and Base Boundary
- Collection and analysis of groundwater samples from three drinking water wells: one each at the Bonneville and Killpack cantonments and one from the FBI range
- Collection and analysis of surface water samples from three locations: where Lacamas Creek exits the site, at the confluence of Lacamas Creek and North Fork Lacamas Creek, and on Lacamas Creek downstream from Landfill 4/Demolition Area 1

This monitoring is conducted in accordance with the project SAP/QAPP. The analytical results obtained from quarterly monitoring are compared with cleanup levels established by Ecology under the Model Toxics Control Act (MTCA)[8] to determine if the groundwater or surface water potentially poses an unacceptable environmental risk to human health or the environment. Data from 2003 to present are stored in an Earthsoft Environmental Quality Information System (EQuIS) electronic database.

4 RECENT MONITORING ACTIVITIES

Groundwater samples were collected from the 10 monitoring wells located at Base Boundary (Figure 3) on August 29 and 30, 2023. A field duplicate sample (labeled 03Q23LCMW140W) was collected from monitoring well LC-MW01S. An additional volume of groundwater was collected from monitoring well LC-MW01D for laboratory matrix spike/matrix spike duplicate (MS/MSD) analysis.

Groundwater samples were collected from 18 monitoring wells at Landfill 4/Demolition Area 1 (Figure 4) from August 30 to September 6, 2023. Two field duplicate samples (labeled 03Q22L4MW145W and 03Q22L4MW150W) were collected from monitoring wells L4-MW7B and L4-MW8A, respectively. An additional volume of groundwater was collected from monitoring well L4-MW02A for MS/MSD analysis.

[8] http://apps.leg.wa.gov/WAC/default.aspx?cite=173-340

Drinking water samples were collected from Killpack, Bonneville, and Range Road wells. A duplicate sample (labeled 03Q23DUPW) was collected at well Killpack. An additional volume of groundwater was collected from Range Road for MS/MSD analysis.

Surface water samples were collected from the three surface water locations. A duplicate sample (labeled 03Q23DP05SW) was collected at location NF02. Additional volume was collected from LC03 for MS/MSD analysis.

Samples were collected in new laboratory-supplied sample containers directly from the end of the dedicated pump discharge hose. Groundwater samples requiring preservatives were collected in sample bottles filled with the appropriate amounts of preservative solution by the contract laboratory.

The locations were sampled in accordance with the procedures established in the SAP/QAPP. Additional sampling details are provided below.

4.1 Sample Collection

A low-flow, minimal-drawdown technique was employed for monitoring well groundwater purging and sampling using dedicated Solinst bladder pumps constructed of a polyvinyl chloride (PVC) or stainless-steel body and a Teflon bladder. The low-flow purging technique is described in the SAP/QAPP. Low-flow sampling minimizes disturbance to the aquifer and is designed to ensure that representative samples are collected from the wells.

Drinking water well sample collection occurred following purging the wells for five minutes. Samples were collected directly from the spigot closest to the well.

Surface water samples were collected following procedures described in the SAP/QAPP.

4.2 Quality Assurance/Quality Control Samples

Duplicate samples were collected at a frequency of at least 1 per every 10 samples and at least 1 per area, with 1 collected from Base Boundary, 2 from Landfill 4/Demolition Area 1, 1 from drinking water wells, and 1 from surface water. MS/MSD samples were collected at a frequency of at least 1 per every 20 samples and 1 per area. Trip blanks were submitted with all shipments containing samples for VOC analysis. Dedicated pumps in the wells at Base Boundary, Landfill 4/Demolition Area 1, and the drinking water wells eliminate the need for equipment blanks.

4.3 Deviations from SAP/QAPP

This section is intended to discuss deviations from established protocols as well as to note unusual conditions or equipment issues encountered. There were no deviations from established protocols this quarter.

4.4 Investigation-Derived Waste (IDW)

Gloves and other disposable field supplies were disposed as solid waste. Purged groundwater was placed in 55-gallon drums that were sealed, labeled, and placed in the maintenance shed area. The drums will be picked up later for proper disposal.

5 MONITORING RESULTS

5.1 Base Boundary at Lacamas Creek

Groundwater elevations and field parameters for the third quarter 2023 are provided in Table 2. Figure 5 illustrates groundwater contours and flow direction for the Base Boundary shallow wells and Base Boundary deep wells.

Table 3 summarizes analytical results for the contaminants of concern (COCs) at Base Boundary. Of the 10 wells in the base boundary area, there were no COCs detected above the laboratory method reporting limits (MRLs) except for acetone in well LC-MW02S and LC-MW09S. As discussed in Section 5.3, the acetone detection is from external contamination and not representative of aquifer conditions.

5.2 Landfill 4/Demolition Area 1

Groundwater elevations and field parameters for the third quarter 2023 are provided in Table 2. Figure 6 illustrates groundwater contours and flow direction for the Landfill 4 shallow wells and deep wells.

Wells L4-MW17 and L4-MW18 are located topographically downgradient from the Landfill 4 area and are not included in groundwater flow discussion. Monitoring well L4-MW07B is screened in the same area of the aquifer as the other deep wells at the Landfill 4 area (above bedrock) and is included in the deep groundwater flow discussion.

Table 3 summarizes analytical results for the COCs at Landfill 4/Demolition Area 1.

Of the wells in the Landfill 4/Demolition Area 1 area, 14 had 1 or more detections of perchlorate or RDX that exceeded MTCA Method B cleanup levels (see Table 3), and 3 wells had VOC detections. The results are discussed further in Section 7.

5.3 Drinking Water Wells

Table 4 summarizes analytical results for the COCs at the drinking water wells. There were no detections above MRLs in the two analyzed samples.

5.4 Surface Water Samples

Table 5 summarizes analytical results for the COCs at surface water sample locations. There were no detections above MRLs in the three analyzed samples.

6 DATA QUALITY REVIEW AND VALIDATION

The overall DQO is to provide data of known and sufficient quality to evaluate the physical extent and concentration ranges of COPCs from analysis of groundwater samples, and to assure compliance with environmental and health-related agencies. DQOs for laboratory analysis are presented in the SAP/QAPP. Laboratory analytical data were evaluated with respect to quality assurance objectives for precision, accuracy, representativeness, comparability, and completeness. The third quarter data met the following criteria:

- Analytical data were received from the laboratory in an electronic data deliverable (EDD) format that was imported into an electronic database.
- Qualifiers from the laboratory were included as well as any qualifiers resulting from data validation procedures conducted by PBS.
- The project specifications were met for all analytes, indicating that the sampling and analysis procedures were reproducible.

- The laboratory report narratives state that all quality control parameters that affect sample analysis were met, except as noted in Section 6.7 below.

6.1 Data Validation

All analytical data were validated at a Level II review standard. Level II validation and reporting includes a brief narrative of the laboratory data along with presentation of the sample results and related quality assurance/quality control (QA/QC) analyses. Additionally, at least 20% of the analytical data (9 of 43 samples) were validated at a Level III review standard. Level III validation adds the following list to the reporting (not all method requirements are applicable to each analysis in this sampling event):

- Internal standards
- Blank association
- Serial dilution results
- Post-digestion spike results
- Gas chromatography/mass spectrometer (GC/MS) tune table
- Initial calibration table
- Continuing calibration verifications
- Calibration blanks
- Column confirmation
- Instrument run log
- Interference check solution A/interference check solution AB (ICSA/AB), contract required detection limit (CRDL), and method detection limit/instrument detection limit (MDL/IDL) form

These data validation levels follow the criteria in the EPA's *Data Quality Objectives for Remedial Response Activities Development Process*.[9]

6.2 Presentation of Data

Samples were collected over five days with four sample submissions. Samples were placed in eight sample delivery groups (SDGs) by Anatek Labs. The SDGs were processed as a Level II data package. Anatek Labs provided a Level III data package for the three methods analyzed during this sampling event (EPA Method 6850, EPA Method 8260, and EPA Method 8330) and provided the data as individual reports per method. The following SDGs were processed by Anatek Labs:

- MDH0994
- MDH0998
- MDI0021
- MDI0022
- MDI0024
- MDI0025
- MDI0036
- MDI0255

[9] EPA (Environmental Protection Agency). (1987b). *Data Quality Objectives for Remedial Response Activities-Development Process.* EPA/540/G-87/003, OSWER Directive 9355.07B, EPA, Washington, DC (PB88-131370).

Laboratory reports are included on an electronic storage device with the printed third quarter report and are in the electronic version of the report. The Level II data packages are found in Appendix C, and the Level III data packages are found in Appendix D.

6.3 Sample Handling and Control

The chain-of-custody forms indicate that samples were maintained under proper custody. Forms were signed upon release from the field and receipt at the laboratory. Samples were received by the laboratory at temperatures within acceptable limits and with proper preservation. All reported analytical results were performed within applicable method-specified holding times.

6.4 Field Quality Control Sample Assessment

6.4.1 Trip Blanks

Trip blanks and groundwater samples for VOC analysis were consolidated daily into one cooler for shipment to the laboratory. Trip blanks were included daily from August 28 to September 6, 2023. All but the trip blank from September 6, 2023, were analyzed for VOCs and there were no detections except for acetone in the trip blank from August 29, 2023. Acetone was not detected in samples analyzed during this sampling event; therefore, the detections do not affect quality and the data are considered valid.

6.4.2 Duplicates

Duplicate samples were collected from the four study areas (Base Boundary, Landfill 4/Demolition Area 1, drinking water wells, and surface water). These samples were analyzed for the same constituents as the source samples.

The relative percent difference (RPD) was calculated as the difference between the values divided by the average of the values. For samples with results greater than five times the practical quantitation limit (PQL), an RPD of less than 20% is considered good duplication. For samples with results less than five times the PQL, the difference between the sample and its duplicate must be less than the PQL to meet the quality assurance acceptance criteria. A significant difference between duplicate values for a few parameters would indicate potential problems with the precision of specific analyses. A significant difference for many parameters would indicate potential problems with the sample collection procedures. The following are the results of duplicate sampling for this event:

- **Base Boundary at Lacamas Creek Duplicate**
  The field duplicate analysis for well LC-MW01S met quality control requirements.
- **Landfill 4/Demolition Area 1 Duplicate**
  The field duplicate analyses for wells L4-MW07B and L4-MW08A met quality control requirements.
- **Drinking Water Well Duplicate**
  The field duplicate analysis for well Killpack met quality control requirements.
- **Surface Water Duplicate**
  The field duplicate analysis for location NF02 met quality control requirements.

6.5 Method Reporting Limits

All samples either met laboratory specified MRLs as presented in the project SAP/QAPP or were detected with elevated MRLs due to high analyte concentrations.

6.6 Field Data Quality Assessment

There are no specific DQOs for the measurement of field parameters (temperature, pH, ORP, conductivity, DO, and turbidity). Temperature, pH, ORP, conductivity, and DO were measured during purging. Turbidity was

measured during sample collection. The PBS standard operating procedure (SOP) for low-flow groundwater sampling describes the acceptable criteria for the measurement of field parameters. A copy of the SOP is provided in the SAP/QAPP.

6.7 Laboratory Quality Control Assessment

The analytical data quality evaluations performed by Anatek Labs are presented in the laboratory analysis reports in Appendix B and Appendix C (provided on the enclosed electronic storage device). Analytical results requiring qualification are flagged by the laboratory with codes describing data quality anomalies. Case narratives describing sample receipt, identification, and general comments by laboratory personnel are included in each report.

6.7.1 Laboratory Quality Control Samples/Indicators

6.7.1.1 Blanks

There were no detections of target compounds in the method blanks for analyses reported for this sampling event.

6.7.1.2 Laboratory Control Samples

The LCS/laboratory control sample duplicate (LCSD) RPD was within control limits for all analytes. Laboratory control sample (LCS) recoveries were within specified control limits. The data are considered accurate and valid.

6.7.1.3 Matrix Spike/Matrix Spike Duplicates

MS/MSD recoveries and RPDs for MS/MSD pairs were within specified control limits, except for the following:

- MS or MSD recoveries were below the lower control limits (biased low) for 4-Nitrotoluene in batch BDI0064. LCS/LCSD recoveries were within control limits, and the affected samples were non-detect for these compounds; therefore, the data are considered accurate and valid.
- The MS/MSD recoveries were above the upper control limit (biased high) for 1,2,4-Trimethylbenzene, 1,3,5-Trimethylbenzene, chloroethane, ethylbenzene, hexachlorobutadiene, isopropylbenzene, m/p Xylenes, n-Propylbenzene, o-Chlorotoluene, o-Xylene, p-Chlorotoluene, p-isopropyltoluene, sec-Butylbenzene, styrene, and tert-Butylbenzene in batch BDI0119, perchlorate in batches BDI0071 and BDH1230, 4-Nitrotoluene in batch BDI0064. The LCS/LCSD recoveries were within control limits indicating the instruments were working correctly; therefore, accuracy is not expected to be affected and the data are considered accurate and valid.
- The MS/MSD RPD for all analytes were within control limits. The LCS/LCSD recoveries were within control limits indicating the instruments were working correctly, and the affected samples were non-detect for these compounds; therefore, the data are considered accurate and valid.

6.7.1.4 Surrogates

Surrogate recoveries from VOC and explosives analyses were within specified control limits, except for the following:

- Surrogate recoveries for 1,2-Dinitrobenzene in batches BDI0064, BDI0389, and BDI0041 were below the control limit (biased low).
- Surrogate recovery for 2-Amino-4,6-dinitrotoluene in batch BDI0389 was below the control limit (biased high).

6.7.1.5 Internal Standards

Internal standard issues were not noted in the SDGs.

6.7.2 Level III Data Review

The data package for the SDGs receiving Level III data reporting was reviewed for adherence to method criteria that exceed Level II reporting. There were no deviations from method criteria.

7 HYDROGEOLOGY DISCUSSION

7.1 Base Boundary/Lacamas Creek

The third quarter 2023 shallow and deep monitoring well groundwater contours are shown on Figure 5. Shallow (S) wells have screen intervals between 15 and 20 feet bgs with 5-foot length screens, and deep (D) wells have screen intervals between 30 and 40 feet bgs with 10-foot length screens. Well pairs have demonstrated a downward vertical gradient for measurements available in the EQuIS database (since 2008 or the wells' installation), except for well pair LC-MW09S/LC-MW09D, which did not have a vertical gradient in September 2018. The calculated groundwater flow direction is to the north-northwest, which is consistent with historical trends.

7.2 Landfill 4/Demolition Area 1

The wells near and within the Landfill 4/Demolition Area 1 area are illustrated in Figure 4. The hydrogeology discussion for this area includes six pairs of nested wells in A/B pairs, shallow wells L4-MW04A and L4-MW05A, and deep wells L4-MW07B and L4-MW11B. Wells L4-MW17 and L4-MW18 are located topographically downgradient from the Landfill 4/Demolition Area 1 area and are considered sentinel wells; they are not included in the following discussion.

Groundwater elevations and contours are shown on Figure 6 in support of the following groundwater observations:

- For the eight wells in the shallow group, there is a consistent high groundwater elevation in upgradient eastern well L4-MW01A and a westerly groundwater flow direction. From there, groundwater demonstrates a divergent radial flow pattern, generally following the topographic contour, from the northwest (toward L4-MW04A) to southwest (toward L4-MW05A) directions, which is consistent with historical trends.
- For the eight wells in the deep group, there is a consistent high groundwater elevation in upgradient eastern well L4-MW01B. Groundwater flow direction is primarily to the west with slight fluctuations from the west-northwest to west-southwest and is consistently toward North Fork Lacamas Creek. Groundwater flow is primarily south-southwest (toward L4-MW07B) of the main Landfill 4/Demolition Area 1 area, which is consistent with historical trends.
- The well pairs demonstrated vertical gradients as follows:
    - L4-MW01A/L4-MW01B: Upward (since second quarter 2008)
    - L4-MW02A/L4-MW02B: Downward (since second quarter 2008)
    - L4-MW03A/L4-MW03B: Downward (since second quarter 2008)
    - L4-MW08A/L4-MW08B: Downward (since installation in third quarter 2017)
    - L4-MW09A/L4-MW09B: Downward (since installation in third quarter 2017)
    - L4-MW10A/L4-MW10B: Downward (since installation in third quarter 2017)

8 WATER QUALITY DATA ANALYSIS

The laboratory results for COCs were compared to previous quarterly monitoring events, along with groundwater elevation, to identify trends in the data. The monitoring events included in the trend analysis

cover the period of March 2015 to present for Base Boundary and Landfill 4/Demolition Area 1. Data from March 2007 are currently available in the EQuIS database for specific COCs; however, this section focuses on recent trends only. These monitoring events encompass the range of seasonal climatic (rainfall and temperature) and groundwater level variations.

The Base Boundary monitoring wells samples have had no reproducible detections above laboratory MRLs in the monitoring period from 2015 to present; therefore, these locations are not included in this trend discussion.

Groundwater concentration trends for Landfill 4/Demolition Area 1 are discussed below. Analytical results are discussed for 16 wells in the Landfill 4/Demolition Area 1 area.

8.1 Spatial Distribution of Perchlorate and RDX

Perchlorate and RDX are the only two compounds consistently detected above MTCA Method B cleanup levels in multiple wells in the Landfill 4/Demolition Area 1 area. Isocontours of perchlorate concentrations in shallow (A) and deep (B) wells are illustrated in Figure 7, and isocontours of RDX concentrations in shallow and deep wells are illustrated in Figure 8.

8.1.1 Perchlorate

The highest perchlorate concentration in shallow wells is located at well L4-MW09A and decreases in all directions. The highest perchlorate concentration in deep wells is located at well L4-MW11B, with upgradient well L4-MW02B having the second-highest concentration and wells to the north (L4-MW09B, L4-MW10B) having higher concentrations than those south (L4-MW03B) or east (L4-MW01B). The shallow and deep groundwater flow direction near these wells is generally to the west with a southwest component near wells L4-MW02A/B.

8.1.2 RDX

The highest RDX concentration in shallow wells is located at well L4-MW08A. Shallow groundwater flow near well L4-MW08A is generally toward well L4-MW04A, and RDX concentrations have generally demonstrated an increasing trend in well L4-MW04A. The highest RDX concentration in deep wells is located at well L4-MW11B, with upgradient well L4-MW09B having the second-highest concentration.

8.2 Perchlorate and RDX Concentration Trend Analysis

Trend graphs for perchlorate and RDX concentrations from 2007 to present are included in Appendix D. The trend charts are provided as one chart each for perchlorate and RDX in shallow (A) and deep (B) wells (four charts total), and per-well charts with perchlorate, RDX, and groundwater elevation shown. Wells must have at least two detections above the MRL for that analyte to be graphed.

The MTCA Method B cleanup levels are 11.0 micrograms per liter (µg/L) for perchlorate and 1.10 µg/L for RDX. Please note that Ecology requests that graphs showing wells with detections need to also include data points for non-detections in those wells, recorded as one-half the MRL for that analyte.

Data from 2015 to present were examined for statistically significant trends by using a Mann-Kendall trend analysis in ProUCL version 5.1. Data were imported into ProUCL directly from EQuIS with non-detect data at the reporting limit. RDX was not detected over this time interval in well L4-MW07B, so it is not included in this discussion.

The Mann-Kendall trend analysis was performed with the null hypothesis that an upward or downward trend is not present in the data, and with the alternate hypothesis that a trend exists. The data are analyzed by

comparing every new value with every preceding value to see if there are consistent increasing or decreasing trends within a set level of confidence. If the analysis is above the set level of confidence, the null hypothesis is rejected; otherwise, a trend cannot be determined.

The following wells demonstrated a statistically significant increasing trend at a 95% confidence level:

Perchlorate

- L4-MW04A
- L4-MW10B
- L4-MW11B

RDX

- L4-MW04A
- L4-MW08B
- L4-MW10B
- L4-MW11B

The following wells demonstrated a statistically significant decreasing trend at a 95% confidence level:

Perchlorate

- L4-MW01B
- L4-MW02B
- L4-MW03A
- L4-MW03B
- L4-MW05A
- L4-MW09A

RDX

- L4-MW02A
- L4-MW02B
- L4-MW03A
- L4-MW03B
- L4-MW05A
- L4-MW08A
- L4-MW09A
- L4-MW09B
- L4-MW10A

The following wells did not demonstrate a statistically significant trend over the analyzed time interval:

Perchlorate

- L4-MW01A
- L4-MW02A
- L4-MW07B
- L4-MW08A
- L4-MW08B
- L4-MW09B
- L4-MW10A

RDX

- L4-MW01A
- L4-MW01B
- L4-MW07B

There are no apparent correlations between the variation of perchlorate or RDX concentrations in groundwater and seasonal variation in groundwater elevations in the wells sampled at Landfill 4/Demolition Area 1, except for an apparent negative correlation between perchlorate and groundwater elevation in well L4-MW02A.

9 FUTURE ACTIVITIES

The next scheduled sampling event will occur in the fourth quarter 2023.

PBS Engineering and Environmental Inc. is pleased to present the results of the third quarter 2023 groundwater sampling event. Please contact the undersigned if there are any questions.

Sincerely,
PBS Engineering and Environmental Inc.

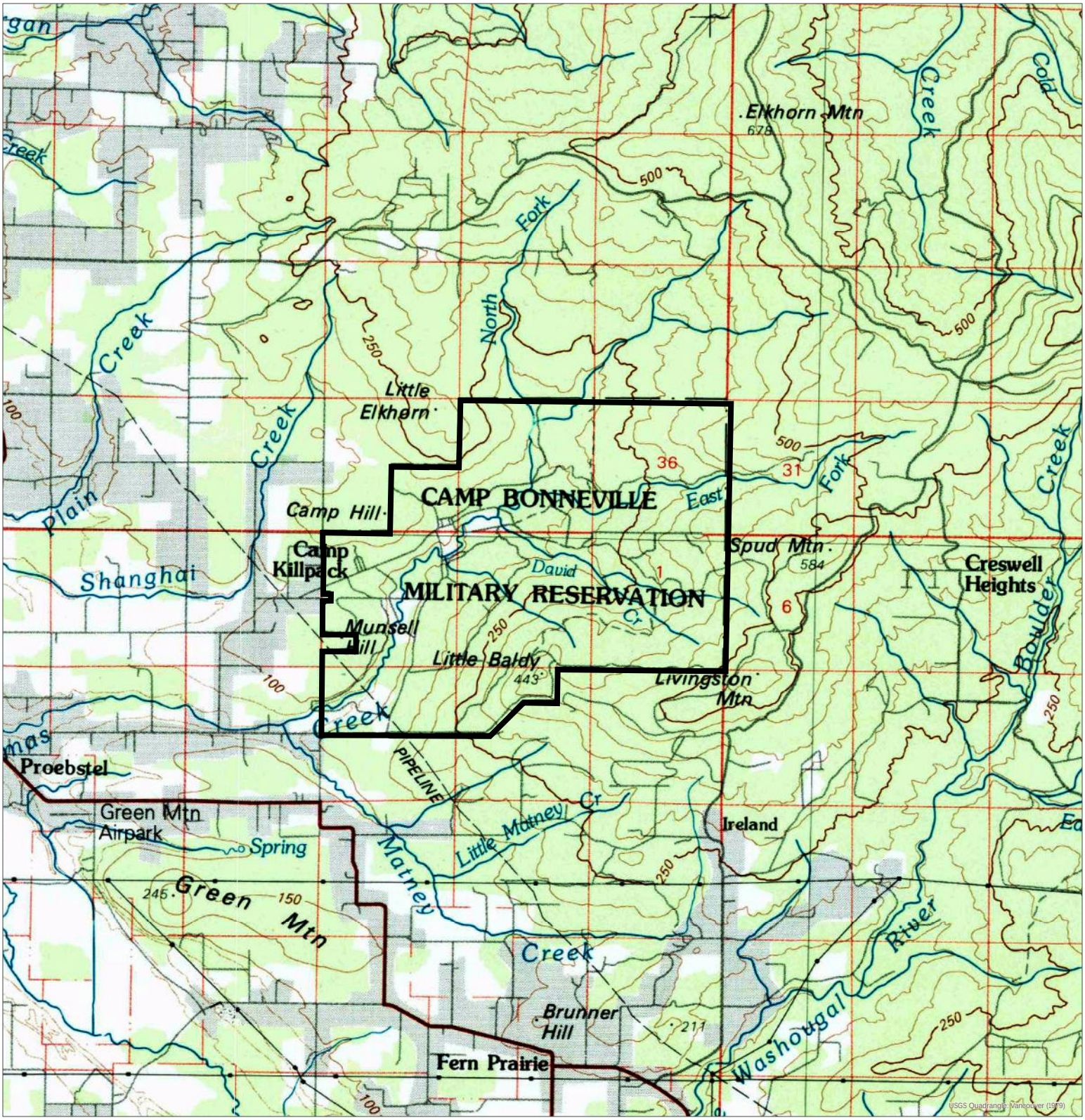
Digitally signed by Samantha Eckes
Date: 2024.01.25 14:23:44 -08'00'

Samantha Eckes, LG Date
Project Geologist

Digitally signed by Thomas Mergy
Date: 2024.01.29 12:50:38 -08'00'

Thomas Mergy, LHG Date
Principal Hydrogeologist

Figures



Site Vicinity

3rd Quarter 2023

23201 NE Pluss Road Vancouver, Washington

Date: January 2024 | Project: 76151.012

Figure: 1

Site Boundary

N

1 INCH = 1 MILE

0 ½ 1 Miles

PBS

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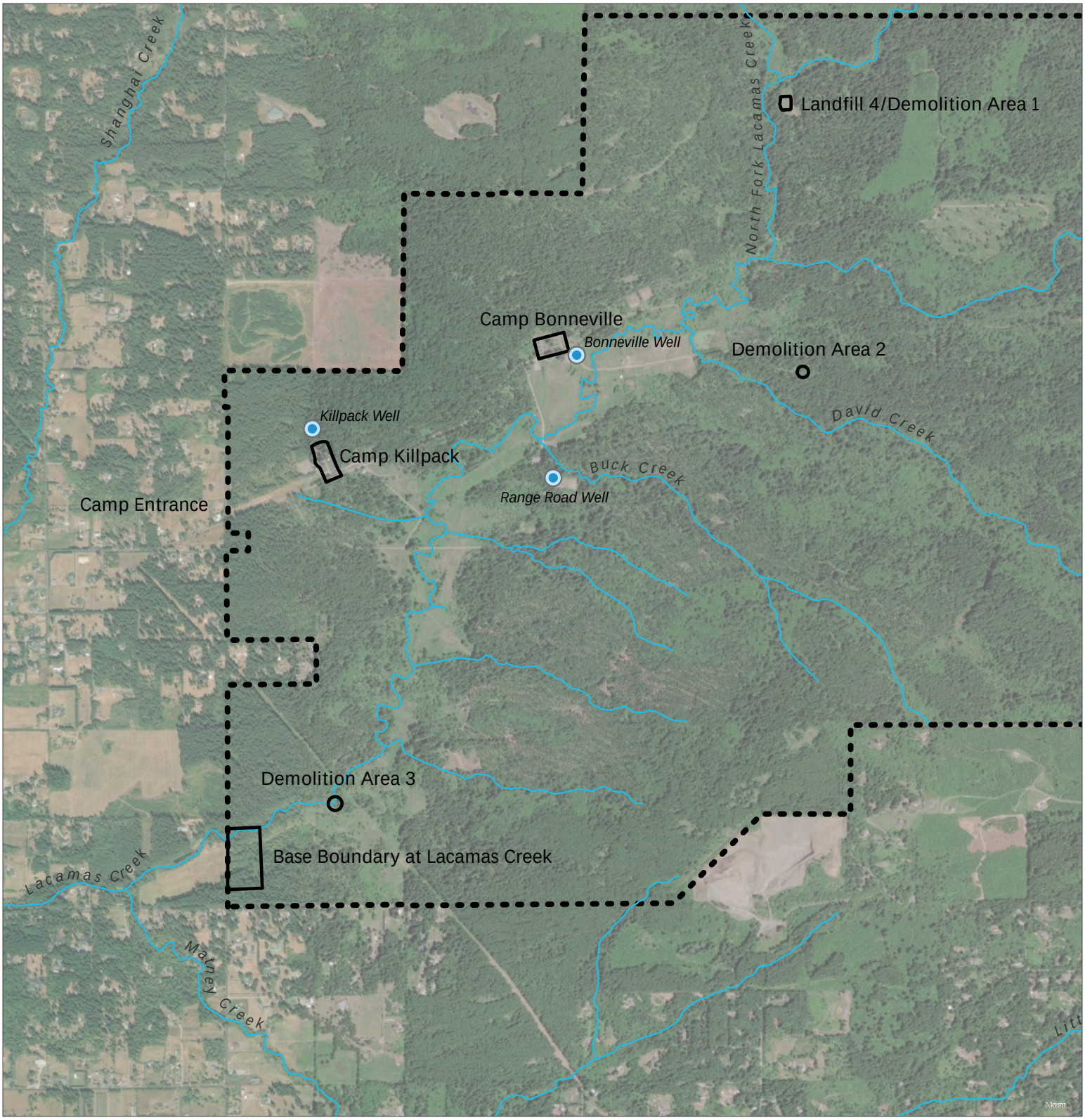

Site Map

3rd Quarter 2023

23201 NE Pluss Road Vancouver, Washington

Date: January 2024 | Project: 76151.012

Figure: 2

Water Supply Well

Waterway

Camp Bonneville Area

Site Boundary

N

1 INCH = 2,000 FEET

0 Feet 2,000

PBS

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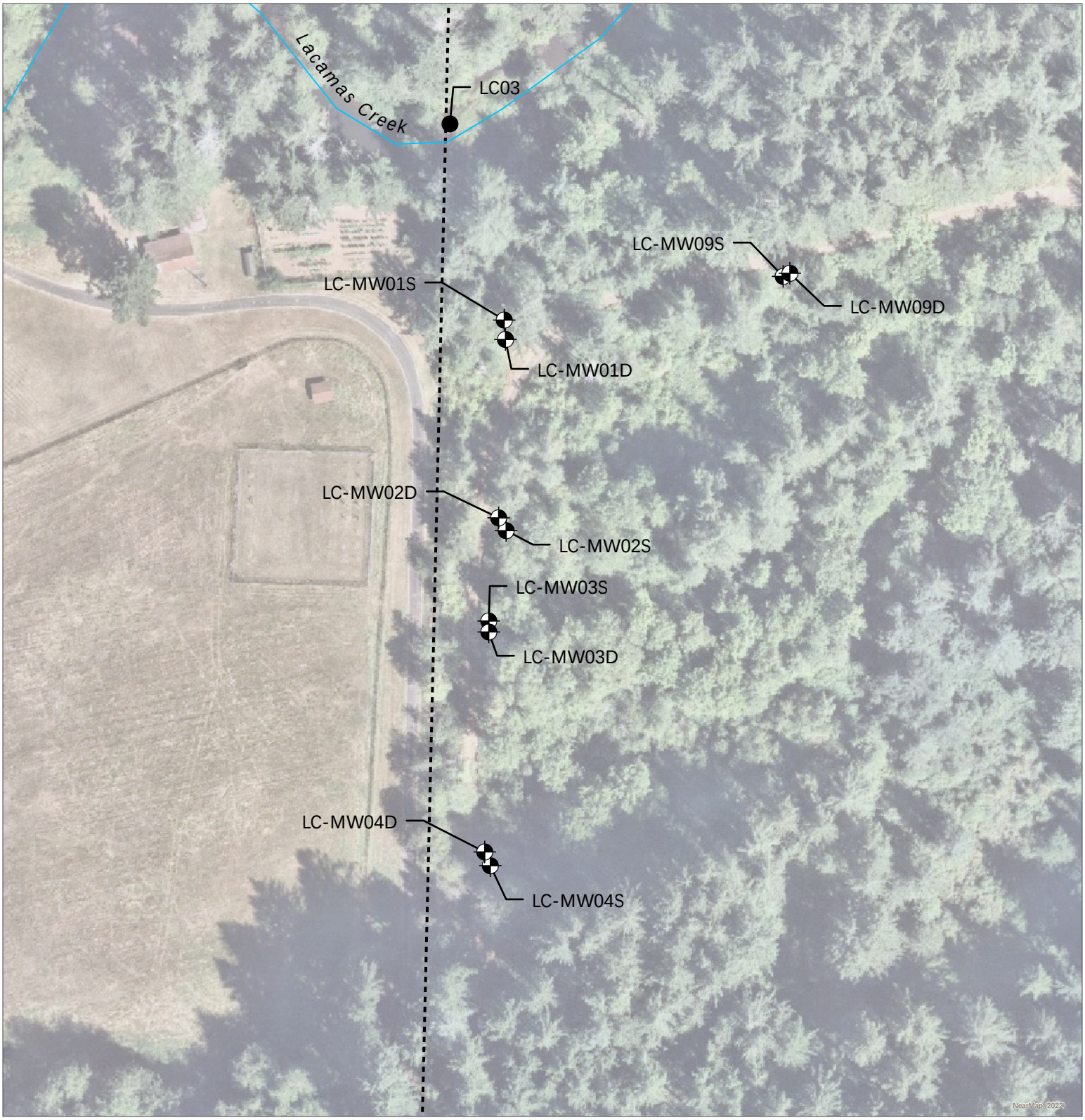
NAD 1983 HARN StatePlane Washington South FIPS 4602 Feet | L:\Projects\76000\76100-76199\76151_Camp Bonneville, Vancouver\DWG\GIS\22Q4\76151.011_GW_Q4_2022\76151.011_GW_Q4_2022.aprx | 1/25/2024 1:16 PM



Monitoring Wells and Surface Water Sample Locations Near Base Boundary

3rd Quarter 2023

23201 NE Pluss Road Vancouver, Washington

Date: January 2024 | Project: 76151.012

Figure: 3

Surface Water Sample Location

Monitoring Well Location

Waterway

Site Boundary

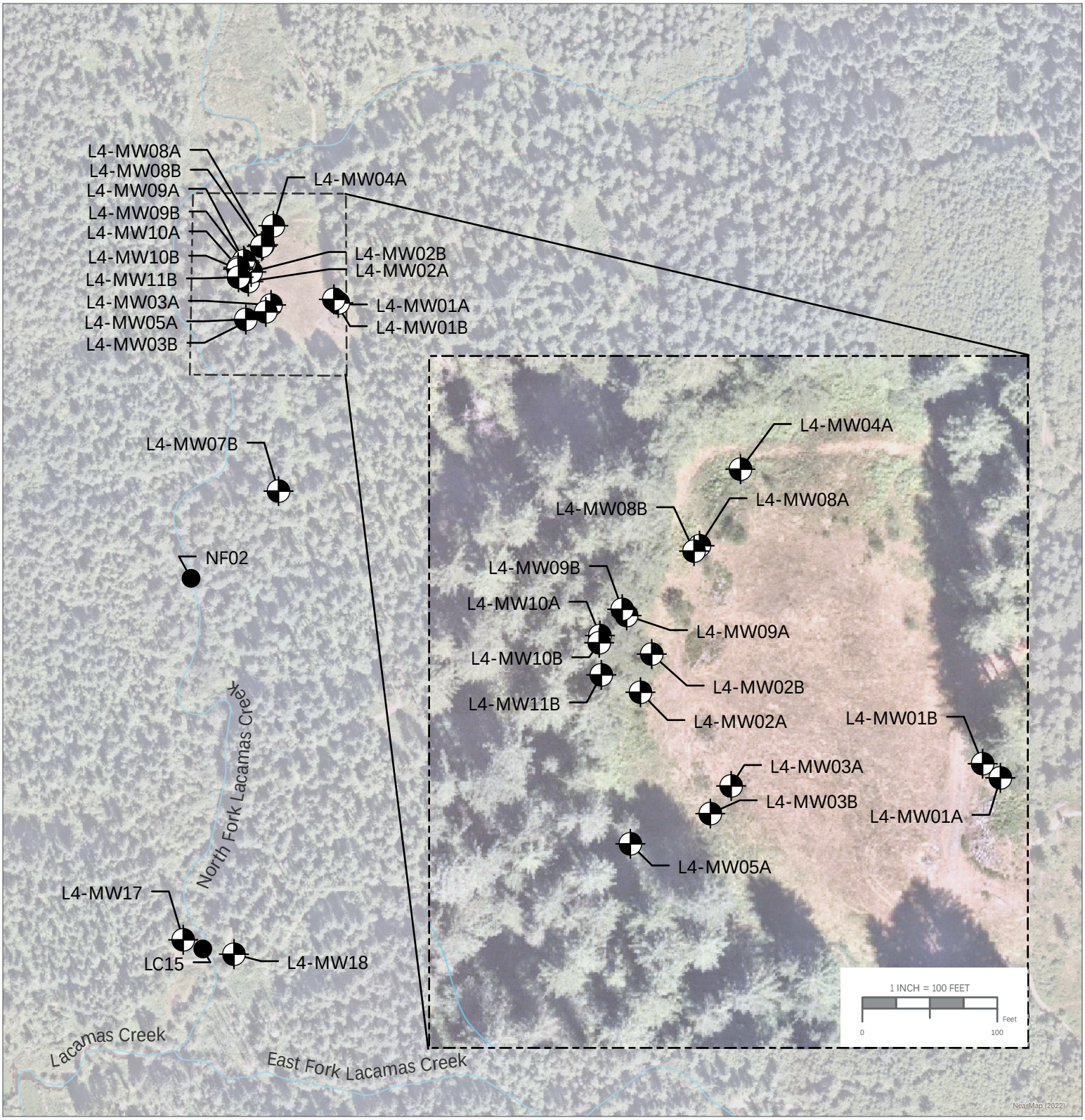
N

1 INCH = 100 FEET

0 100 Feet

PBS

NAD 1983 StatePlane Washington South FIPS 4602 Feet | L:\Projects\76000\76100-76199\76151_Camp Bonneville, Vancouver\DWG\GIS\22Q4\76151.011_GW_Q4_2022\76151.011_GW_Q4_2022.aprx | 1/25/2024 1:16 PM



Monitoring Wells and Surface Water Sample Locations near Landfill 4

3rd Quarter 2023

23201 NE Pluss Road Vancouver, Washington

Date: January 2024 | Project: 76151.012

Figure: 4

Groundwater Monitoring Well

Surface Water Sample Location

Waterway

N

1 INCH = 400 FEET

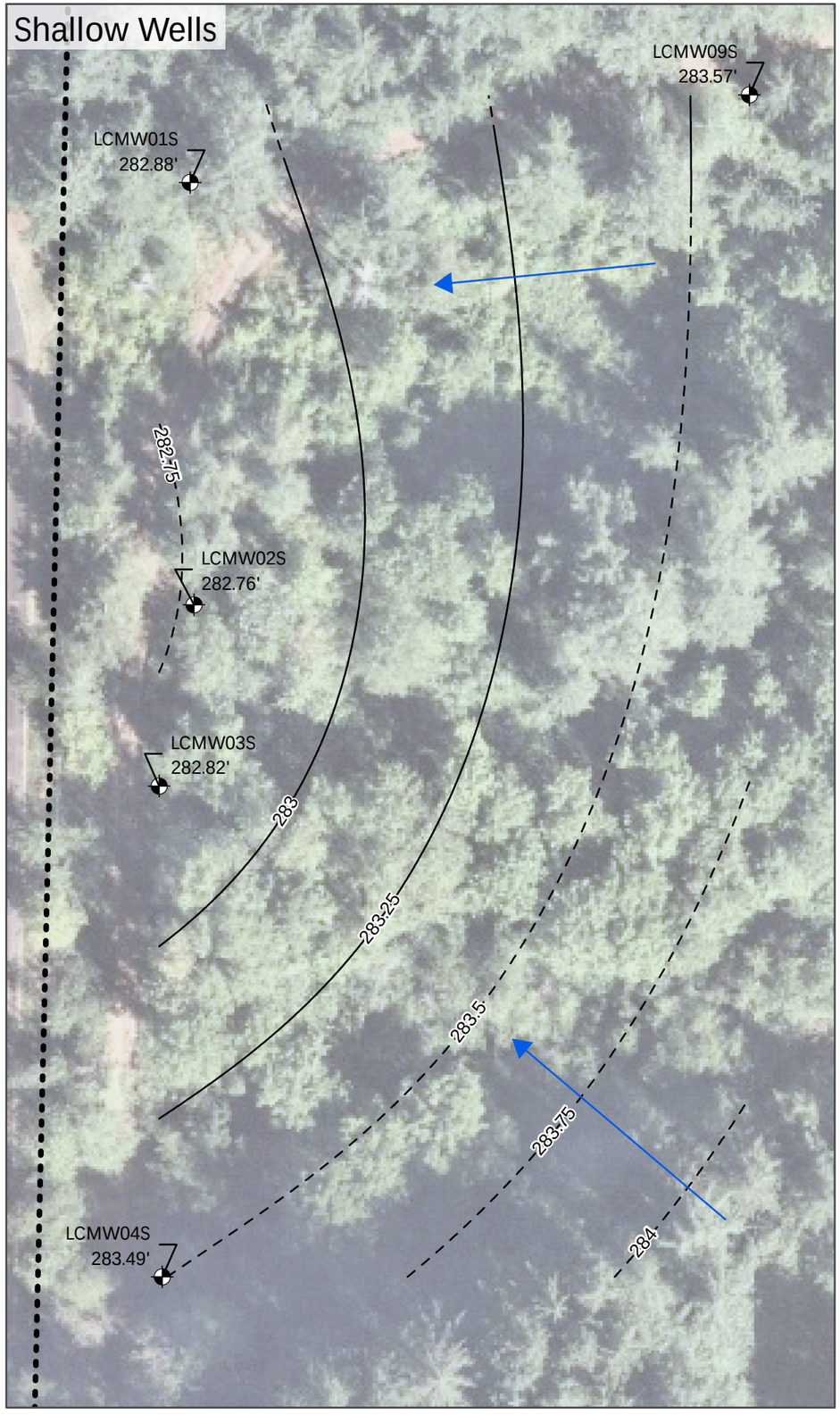
Feet

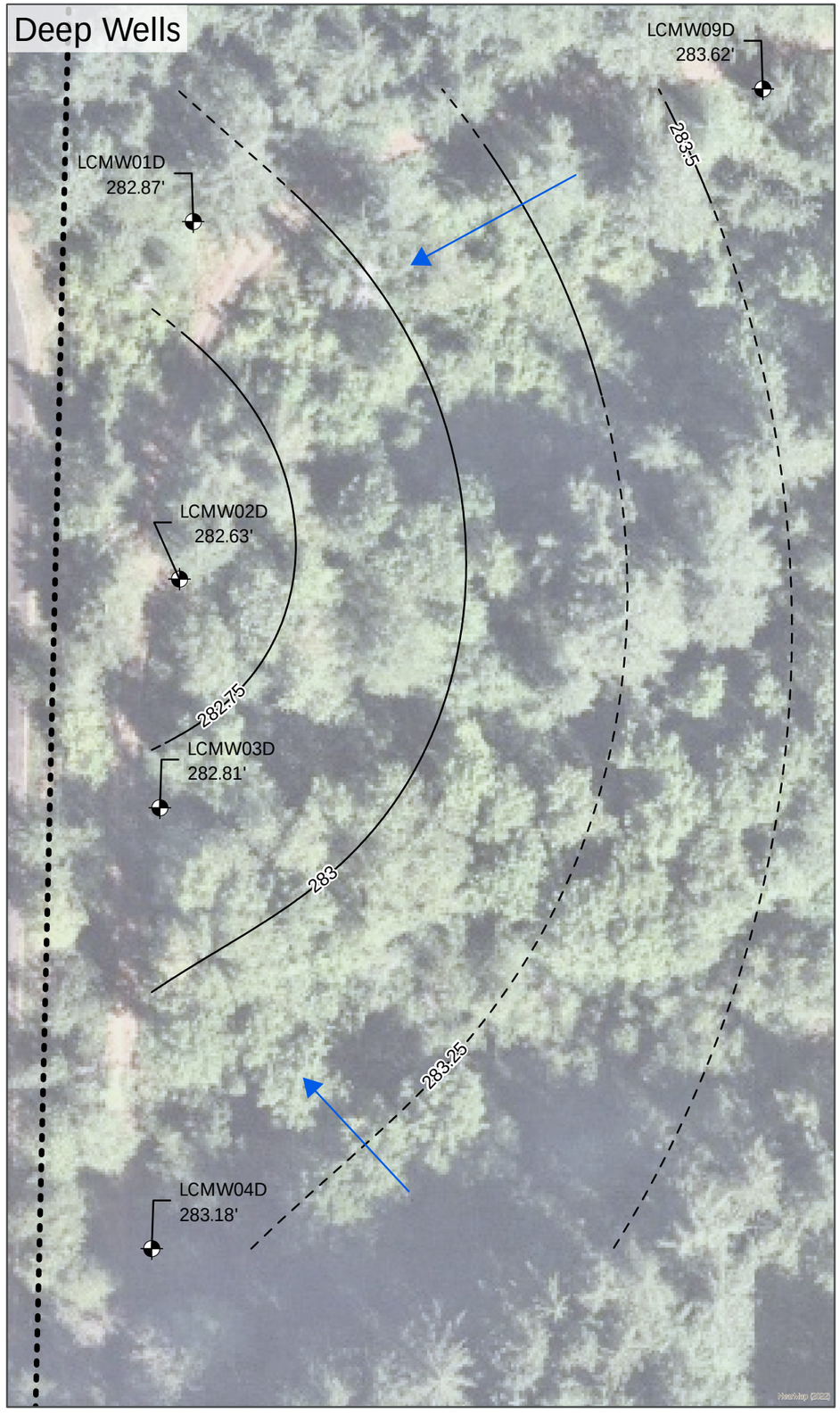
0

400

PBS

NAD 1983 2011 StatePlane Washington South FIPS 4602 Ft US | L:\Projects\76000\76100-76199\76151_Camp Bonneville, Vancouver\DWG\GIS\22Q4\76151.011_GW_Q4_2022\76151.011_GW_Q4_2022.aprx | 1/25/2024 1:16 PM





Base Boundary Monitoring Well Groundwater Elevation

3rd Quarter 2023

23201 NE Pluss Road
Vancouver, Washington

Date: January 2024 | Project: 76151.012

Figure: 5

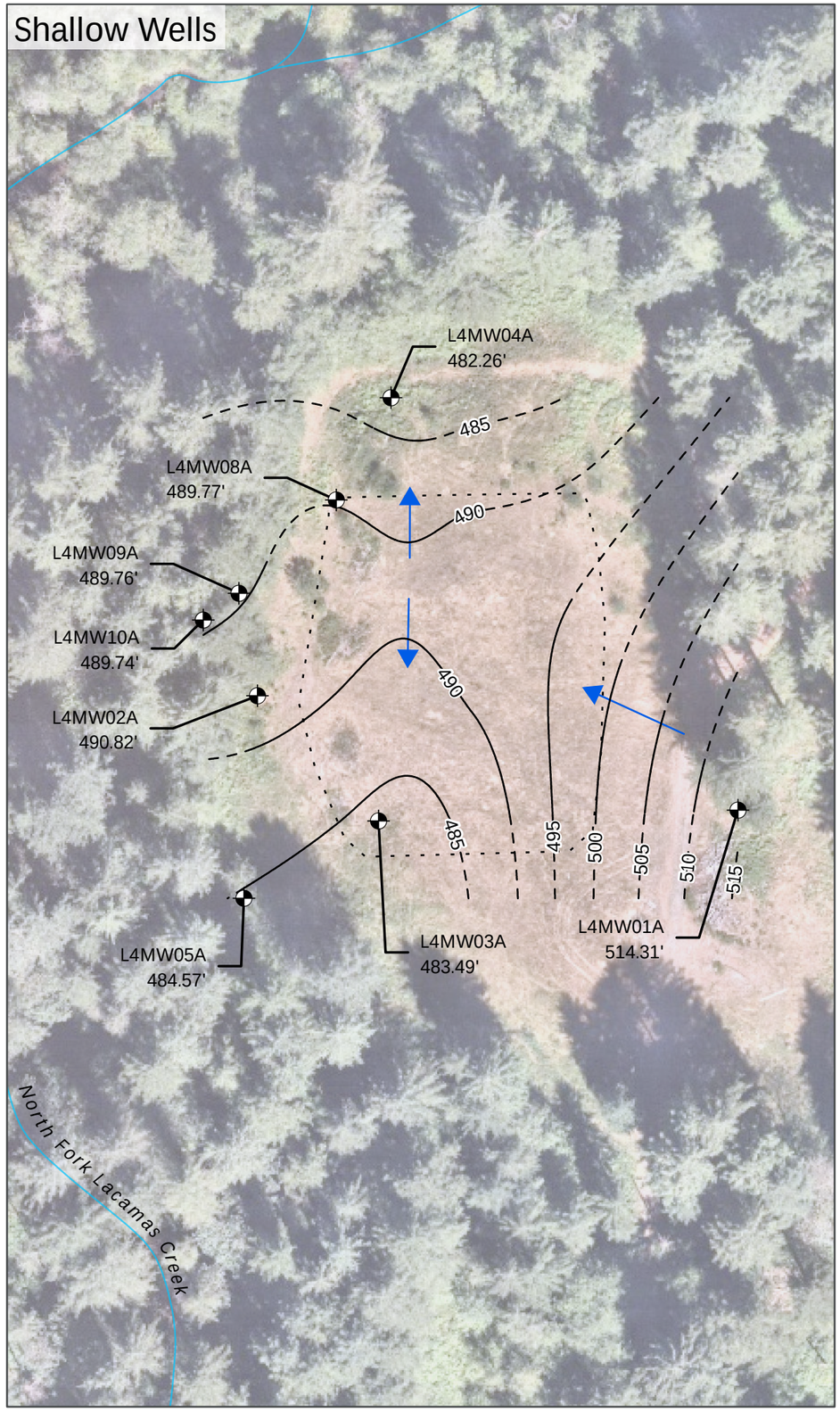
- Groundwater Flow Direction
- Monitoring Well (Groundwater Elevation, Feet ASML)
- Groundwater Elevation Contour
- Inferred Groundwater Elevation Contour
- Base Boundary

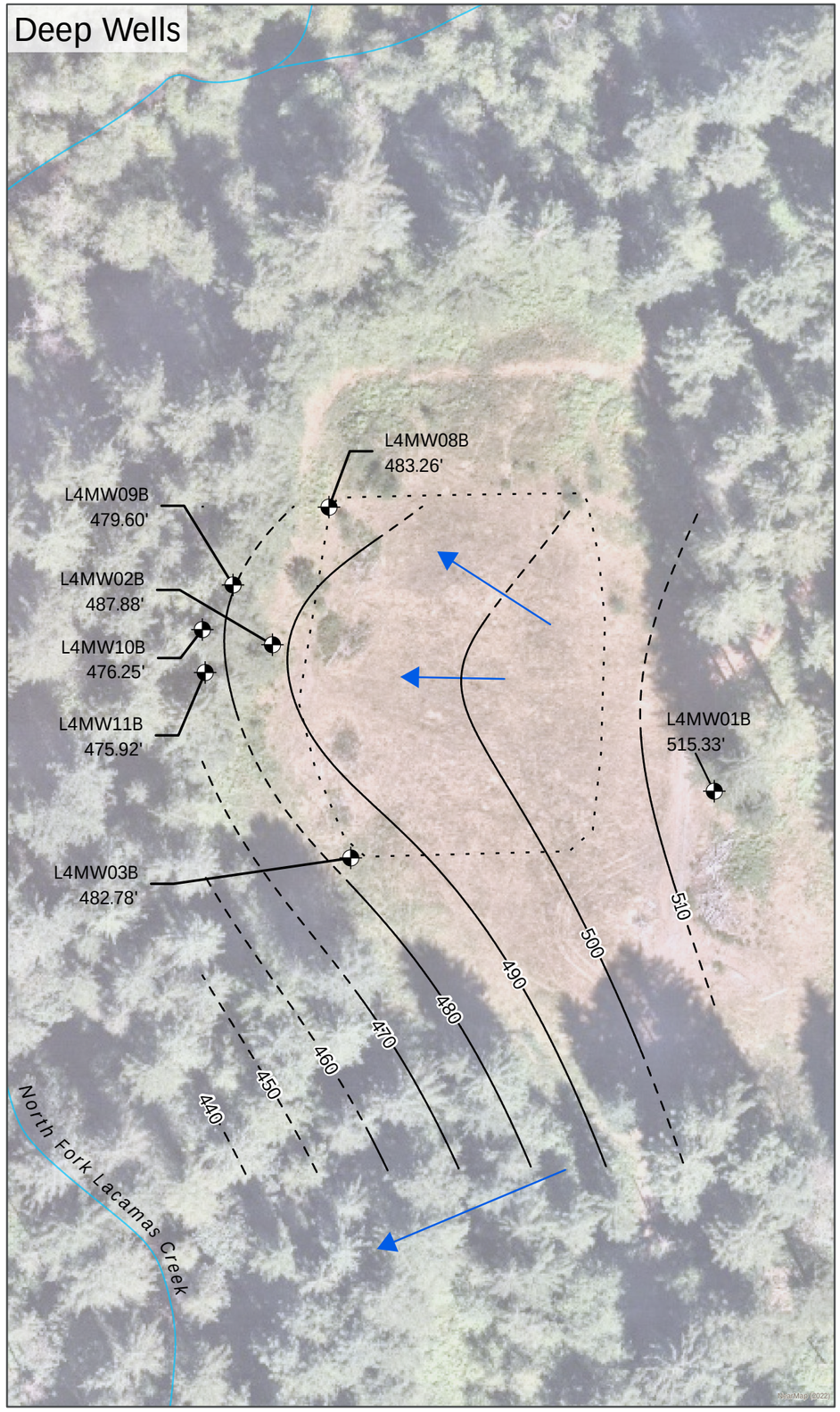
N

1 INCH = 50 FEET

0 50 100 Feet

PBS





Landfill 4 Monitoring Well Groundwater Elevation

3rd Quarter 2023

23201 NE Pluss Road
Vancouver, Washington

Date: January 2024 | Project: 76151.012

Figure: 6

- Groundwater Flow Direction
- Monitoring Well (Groundwater Elevation, Feet AMSL)
- Groundwater Elevation Contour
- Inferred Groundwater Elevation Contour
- Waterway
- Approximate Landfill 4 Extent

N

1 INCH = 75 FEET

0 100 200 Feet

PBS

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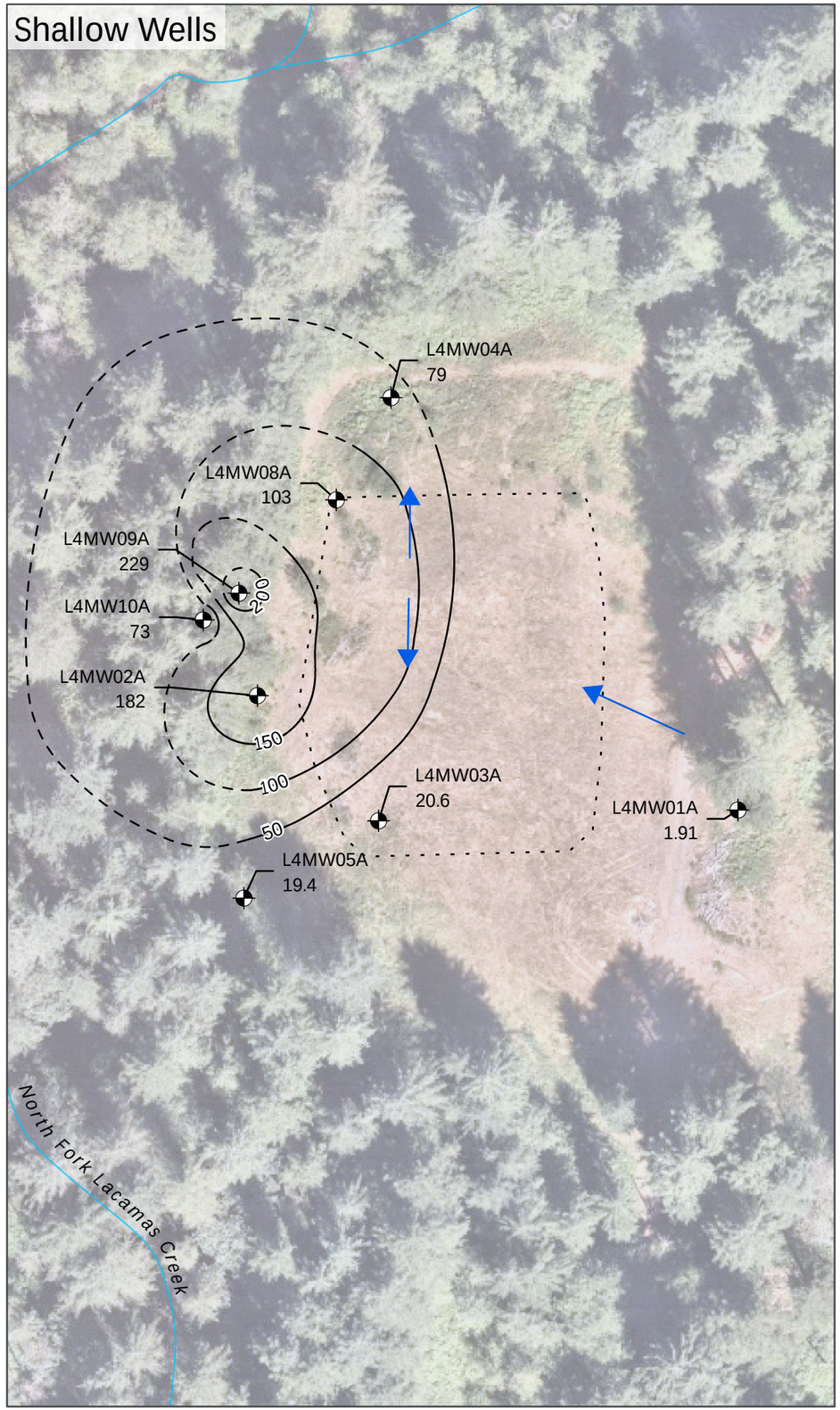
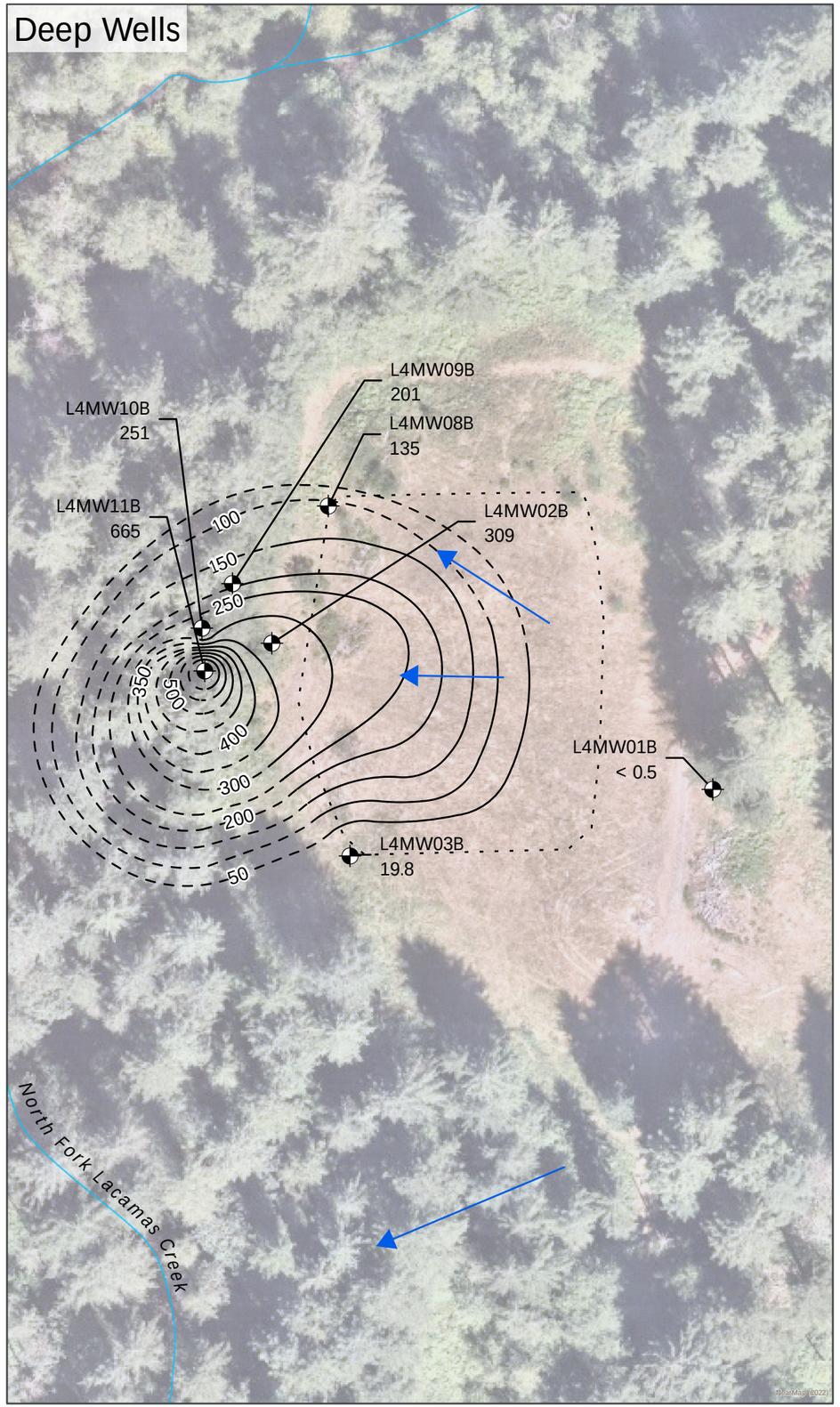




Landfill 4 Monitoring Well Perchlorate Concentration

3rd Quarter 2023

23201 NE Pluss Road
Vancouver, Washington

Date: January 2024 | Project: 76151.012

Figure: 7

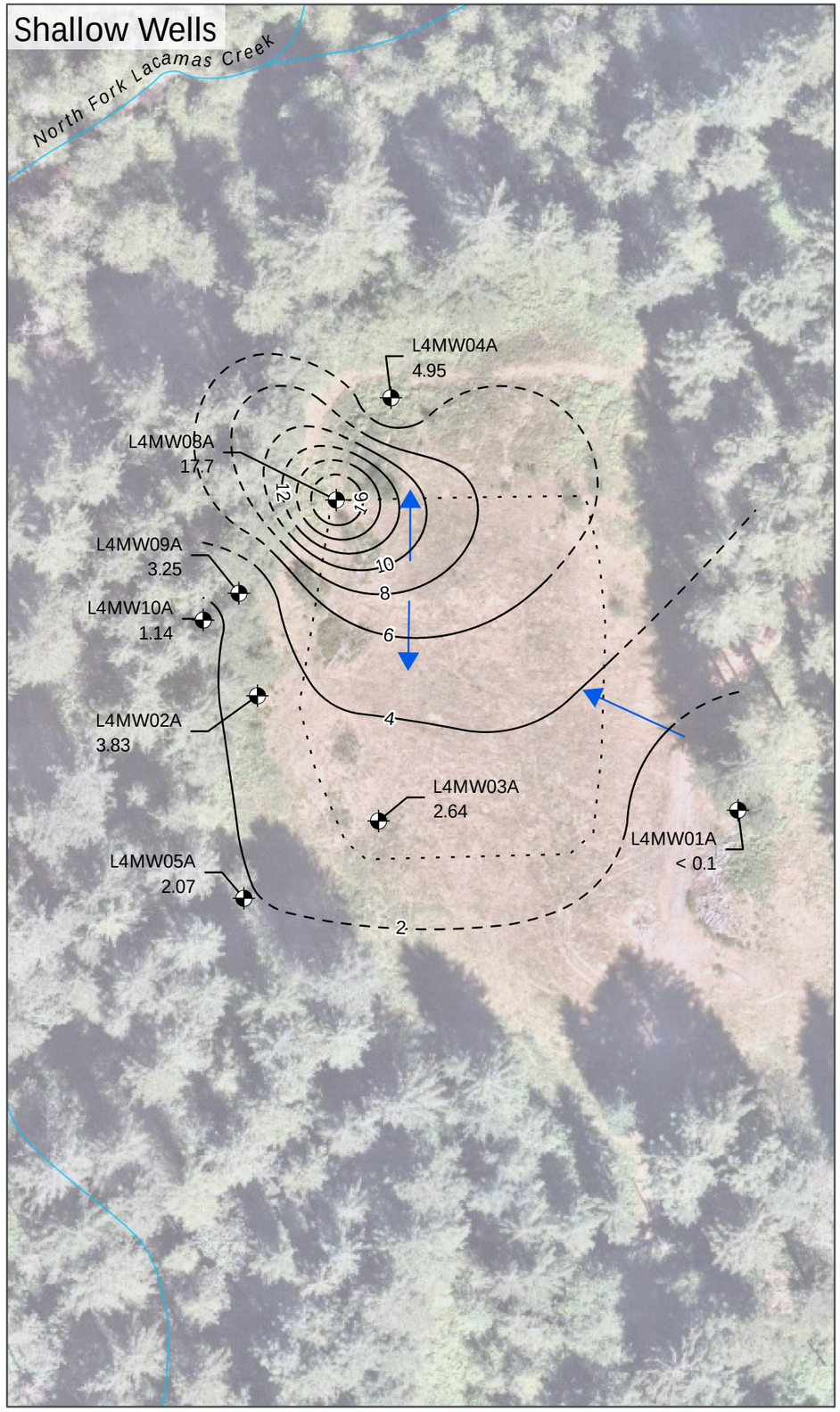
- Groundwater Flow Direction
- Monitoring Well (Perchlorate Concentration, µg/L)
- Concentration Contour
- Inferred Concentration Contour
- Waterway
- Approximate Landfill 4 Extent

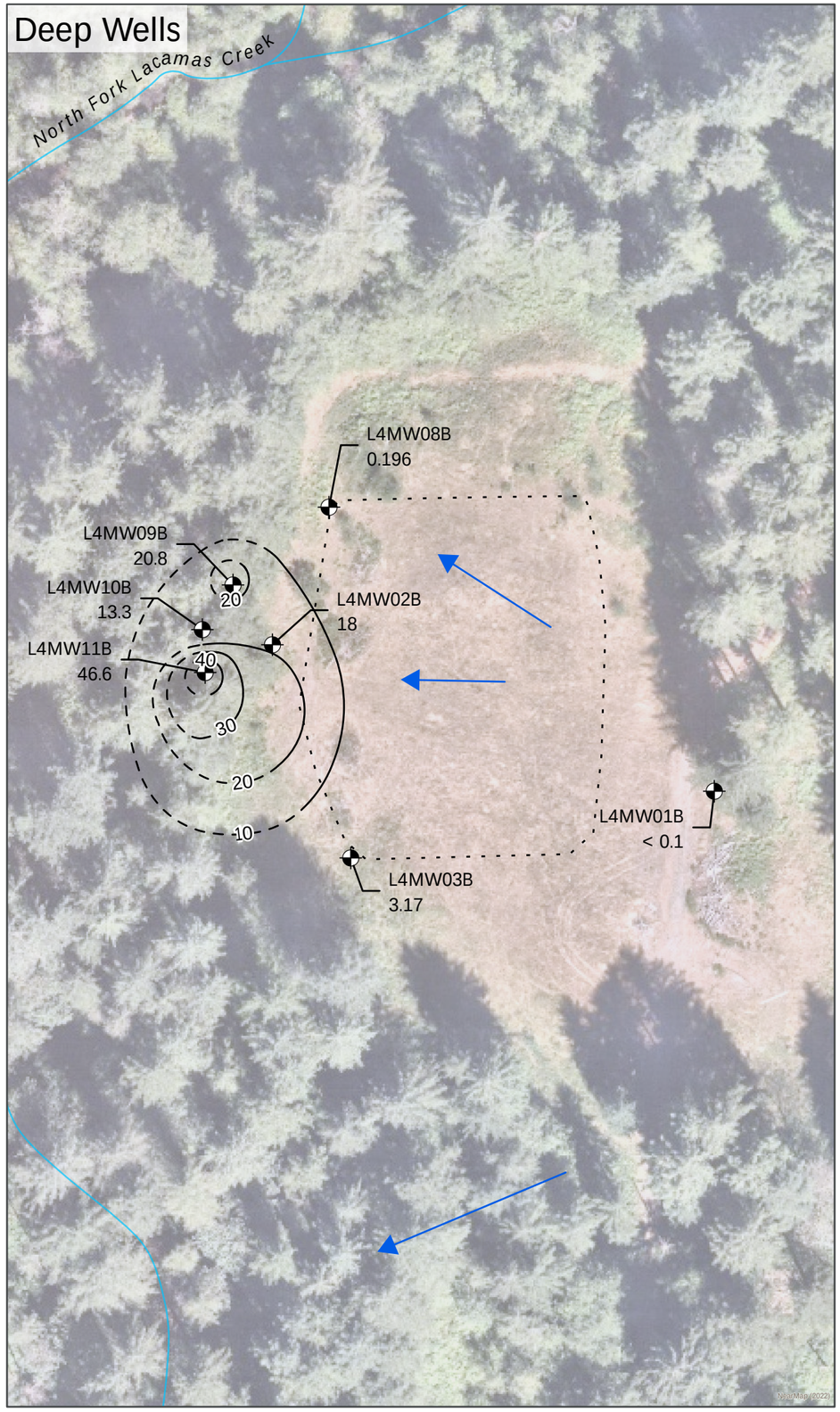
N

1 INCH = 75 FEET

0 75 150 Feet

PBS





Landfill 4 Monitoring Well RDX Concentration

3rd Quarter 2023

23201 NE Pluss Road
Vancouver, Washington

Date: January 2024 | Project: 76151.012

Figure: 8

- Groundwater Flow Direction
- Monitoring Well (RDX Concentration, µg/L)
- Concentration Contour
- Inferred Concentration Contour
- Waterway
- Approximate Landfill 4 Extent

N

1 INCH = 75 FEET

0 75 150 Feet

PBS

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NAD 1983 HARN StatePlane Washington South FIPS 4602 Feet | L:\Projects\76000\76100-76199\76151_Camp Bonneville, Vancouver\DWG\GIS\23Q3\76151_CampB_23Q3.aprx | 12/7/2023 2:42 PM

Tables

Table 1. Well Number and Construction Details

Camp Bonneville, Vancouver, Washington

	Well No. in PBS Work Contract	Ecology Well Tag No.	Well Location	Measured Total Depth (feet)*	Well Log Total Depth (feet)**	Screened Interval (feet)***	Top of PVC Casing Elevation (feet amsl)	Well No. on Steel Casings/Caps (CHPPM No.)
Base Boundary	LC-MW01S	AHA-359	Lacamas Creek	22.71	23.00	10–20	290.15	LC-MW01S
	LC-MW01D	AHA-358	Lacamas Creek	42.21	42.50	29.5–39.5	290.26	LC-MW01D
	LC-MW02S	AHA-364	Lacamas Creek	17.46	17.70	10–15	291.15	LC-MW02S
	LC-MW02D	AHA-357	Lacamas Creek	37.83	38.10	25–35	291.57	LC-MW02D
	LC-MW03S	AHA-363	Lacamas Creek	20.09	20.35	13–18	290.87	LC-MW03S
	LC-MW03D	AHA-362	Lacamas Creek	39.36	39.48	27–37	290.93	LC-MW03D
	LC-MW04S	AHA-375	Lacamas Creek	16.49	16.80	9–14	291.63	LC-MW04S
	LC-MW04D	AHA-361	Lacamas Creek	37.03	37.13	24.5–34.5	291.79	LC-MW04D
	LC-MW09S	BJH-382	Lacamas Creek	22.05	22.38	15-20	293.52	LC-MW09S
	LC-MW09D	BJH-380	Lacamas Creek	41.60	42.27	30-40	294.10	LC-MW09D
Landfill 4 / Demolition Area 1	L4-MW01A	NA	Landfill 4	30.17	30.40	17–27	531.43	L4-MW01A
	L4-MW01B	AGL-482	Landfill 4	55.54	56.00	43–53	529.57	L4-MW01B
	L4-MW02A	NA	Landfill 4	40.21	40.20	27–37	519.97	L4-MW02A
	L4-MW02B	AGL-483	Landfill 4	74.97	75.00	62–72	521.70	L4-MW02B
	L4-MW03A	AGL-466	Landfill 4	48.71	49.00	41–46	514.90	L4-MW03A
	L4-MW03B	AGL-484	Landfill 4	61.85	63.00	50–60	511.49	L4-MW03B
	L4-MW04A	AGL-465	Landfill 4	46.44	46.00	33–43	511.84	L4-MW04A
	L4-MW05A	AGL-467	Landfill 4	36.63	36.00	28–33	509.74	L4-MW05A
	L4-MW07B	NA	Landfill 4	58.86	58.90	46–56	480.49	L4-MW07B
	L4-MW08A	BJH-379	Landfill 4	40.72	40.31	28-38	515.52	L4-MW08A
	L4-MW08B	BJH-378	Landfill 4	67.41	67.31	55-65	515.72	L4-MW08B
	L4-MW09A	BJH-377	Landfill 4	42.45	42.43	30-40	523.00	L4-MW09A
	L4-MW09B	BJH-376	Landfill 4	77.65	77.36	65-75	523.27	L4-MW09B
	L4-MW10A	BJH-375	Landfill 4	42.71	42.43	30-40	523.05	L4-MW10A
	L4-MW10B	BJH-374	Landfill 4	77.30	77.17	65-75	522.48	L4-MW10B
	L4-MW11B	BJH-373	Landfill 4	77.57	77.27	65-75	522.29	L4-MW11B
	L4-MW17	ALB-252	Landfill 4	17.17	17.67	5–15	361.48	L4-MW17
	L4-MW18	ALB-251	Landfill 4	22.60	22.01	10–20	362.84	L4-MW18

Notes:

* = depth in feet measured from top of well polyvinyl chloride (PVC) casing in December 2007 and August 2017; sediment present at bottom of some casings

** = casing depth in feet recorded on well log; measured from top of PVC casing

*** = screened interval reported on well completion logs; feet below ground surface

amsl = above mean sea level

NA = not available

Table 2. Field Parameters for Groundwater Samples at Base Boundary and Landfill 4/Demolition Area 1, 3rd Quarter 2023

Camp Bonneville, Vancouver, Washington

	Sample ID	Date Sampled	Depth to Water	Water Elevation	Dissolved Oxygen	Oxidation Reduction Potential	pH	Specific Conductivity	Temperature	Turbidity
			feet below TOC	feet amsl*	mg/L	millivolts	pH units	µS/cm	degrees Celsius	NTU
Base Boundary	03Q23LCMW01DW	8/29/2023	7.38	282.88	7.33	140.9	6.02	87	12.0	0.02
	03Q23LCMW01SW	8/29/2023	7.26	282.89	6.29	133.1	6.13	84	11.7	0.02
	03Q23LCMW02DW	8/29/2023	8.93	282.64	7.24	144.5	5.99	90	11.7	0.02
	03Q23LCMW02SW	8/29/2023	8.38	282.77	7.59	141.8	6.03	86	11.8	2.32
	03Q23LCMW03DW	8/29/2023	8.11	282.82	7.39	152.8	5.82	94	11.7	0.02
	03Q23LCMW03SW	8/29/2023	8.05	282.82	7.26	150.1	5.82	99	11.9	4.84
	03Q23LCMW04DW	8/30/2023	8.60	283.19	7.20	128.1	6.40	93	12.6	2.41
	03Q23LCMW04SW	8/30/2023	8.13	283.50	6.17	158.5	5.29	88	12.4	0.02
	03Q23LCMW09DW	8/29/2023	10.47	283.63	6.15	146.3	5.94	93	12.2	1.04
	03Q23LCMW09SW	8/29/2023	9.94	283.58	6.88	141.8	5.71	83	12.1	0.02
Landfill 4 / Demolition Area 1	03Q23L4MW01AW	8/30/2023	17.12	514.31	6.76	181.8	4.28	25	12.0	0.02
	03Q23L4MW01BW	8/30/2023	14.24	515.33	8.66	185.6	4.65	25	11.1	0.02
	03Q23L4MW02AW	8/31/2023	29.15	490.82	7.59	202.7	3.58	19	11.4	0.02
	03Q23L4MW02BW	9/6/2023	33.81	487.89	3.60	180.7	5.06	39	14.3	1.02
	03Q23L4MW03AW	8/31/2023	31.40	483.50	6.77	175.2	3.93	20	11.2	--
	03Q23L4MW03BW	8/31/2023	28.71	482.78	5.95	151.0	4.61	40	11.8	0.02
	03Q23L4MW04AW	8/31/2023	29.58	482.26	5.14	207.4	4.00	14	10.9	0.02
	03Q23L4MW05AW	8/31/2023	25.16	484.58	6.23	172.2	3.94	27	10.6	0.02
	03Q23L4MW07BW	8/30/2023	40.87	439.62	5.85	148.0	5.02	30	10.4	0.02
	03Q23L4MW08AW	8/31/2023	25.74	489.78	6.24	205.7	3.70	16	11.3	0.02
	03Q23L4MW08BW	8/31/2023	32.45	483.27	3.61	164.4	5.31	58	12.3	0.02
	03Q23L4MW09AW	9/6/2023	33.23	489.77	6.28	214.6	4.15	19	12.0	1.03
	03Q23L4MW09BW	9/6/2023	43.66	479.61	2.03	193.4	4.74	28	13.5	0.02
	03Q23L4MW10AW	9/6/2023	33.31	489.74	6.11	200.1	4.14	19	12.0	4.49
	03Q23L4MW10BW	9/6/2023	46.22	476.26	3.21	161.6	5.13	43	12.0	0.02
	03Q23L4MW11BW	9/6/2023	46.36	475.93	3.35	124.9	5.07	24	14.6	0.02
	03Q23L4MW17W	8/30/2023	11.67	349.85	5.32	110.7	7.13	213	15.1	4.66
	03Q23L4MW18W	8/30/2023	12.36	350.49	7.45	132.1	5.87	125	12.1	0.02
Surface Water	03Q23LC03SW	8/28/2023	--	--	6.49	80.2	7.39	73	20.1	1.47
	03Q23LC15SW	8/28/2023	--	--	8.61	140.5	7.54	75	16.6	1.31
	03Q23NF02SW	8/28/2023	--	--	8.41	129.1	6.7	56	16.2	1.01

Field parameters were measured using a YSI Pro and a flow-through cell, with the exception of turbidity, which was measured using an HF Scientific TPW Meter

* water level in feet above mean sea level, relative to top of polyvinyl chloride (PVC) casing elevation survey

Water level measurements are not collected from the Water Wells

amsl = above mean sea level

mg/L = milligrams per liter

µS/cm = micro-siemens per centimeter

NTU = Nephelometric Turbidity Units

TOC = top of casing

Table 3. Constituents Detected in Groundwater, 3rd Quarter 2023

Camp Bonneville, Vancouver, Washington

Analyte	MTCA Method B Std. Cleanup	LCMW01D 8/29/2023	LCMW01S 8/29/2023	LCMW01S Duplicate 8/29/2023	RPD (<20%)	LCMW02D 8/29/2023	LCMW02S 8/29/2023	LCMW03D 8/29/2023	LCMW03S 8/29/2023	LCMW04D 8/30/2023	LCMW04S 8/30/2023	LCMW09D 8/29/2023	LCMW09S 8/29/2023
Explosives (µg/L)													
2.4.6- Trinitrotoluene	2.9	< 0.100	< 0.100	< 0.100	Acceptable	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100
2,4-Dinitrotoluene	0.28	< 0.100	< 0.100	< 0.100	Acceptable	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100
HMX	800	< 0.100	< 0.100	< 0.100	Acceptable	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100
RDX	1.10	< 0.100	< 0.100	< 0.100	Acceptable	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100
Remaining Explosives	Varies	ND	ND	ND	Acceptable	ND	ND	ND	ND	ND	ND	ND	ND
Perchlorate (µg/L)													
Perchlorate	11.0	< 0.500	< 0.500	< 0.500	Acceptable	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500
Volatile Organic Compounds (µg/L)													
1,1,1-Trichloroethane	16,000	< 0.500	< 0.500	< 0.500	Acceptable	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500
1,1,2,2-Tetrachloroethane	0.220	< 0.500	< 0.500	< 0.500	Acceptable	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500
1,1-Dichloroethane	7.7	< 0.500	< 0.500	< 0.500	Acceptable	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500
1,1-Dichloroethene	400	< 0.500	< 0.500	< 0.500	Acceptable	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500
Acetone	7,200	< 2.50	< 2.50	< 2.50	Acceptable	< 2.50	2.92	< 2.50	< 2.50	< 2.50	< 2.50	< 2.50	4.32
Dichlorodifluoromethane	1,600	< 0.500	< 0.500	< 0.500	Acceptable	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500
Remaining VOCs	Varies	ND	ND	ND	Acceptable	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

< = not detected above the indicated method reporting limit

BOLD = exceeds cleanup values

Acceptable = no detection in original or duplicate, or the difference in detection values is less than the reporting limit

µg/L = micrograms per liter

ND = not detected

RPD = relative percent different

Table 3. Constituents Detected in Groundwater, 3rd Quarter 2023

Camp Bonneville, Vancouver, Washington

Analyte	MTCA Method B Std. Cleanup	L4MW01A 8/30/2023	L4MW01B 8/30/2023	L4MW02A 8/31/2023	L4MW02B 9/6/2023	L4MW03A 8/31/2023	L4MW03B 8/31/2023	L4MW04A 8/31/2023	L4MW05A 8/31/2023
Explosives (µg/L)									
2.4.6- Trinitrotoluene	2.9	< 0.100	< 0.100	< 0.100	0.135	< 0.100	< 0.100	< 0.100	< 0.100
2,4-Dinitrotoluene	0.28	< 0.100	< 0.100	< 0.100	0.251	< 0.100	< 0.100	< 0.100	< 0.100
HMX	800	< 0.100	< 0.100	1.65	4.32	0.173	< 0.100	< 0.100	< 0.100
RDX	1.10	< 0.100	< 0.100	**3.83**	**18.0**	**2.64**	**3.17**	**4.95**	**2.07**
Remaining Explosives	Varies	ND	ND	ND	ND	ND	ND	ND	ND
Perchlorate (µg/L)									
Perchlorate	11.0	1.91	< 0.500	**182**	**309**	**20.6**	**19.8**	**79**	**19.4**
Volatile Organic Compounds (µg/L)									
1,1,1-Trichloroethane	16,000	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500
1,1,2,2-Tetrachloroethane	0.220	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500
1,1-Dichloroethane	7.7	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500
1,1-Dichloroethene	400	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500
Acetone	7,200	< 2.50	3.07	4.16	< 2.50	< 2.50	< 2.50	< 2.50	< 2.50
Dichlorodifluoromethane	1,600	< 0.500	< 0.500	< 0.500	0.93	< 0.500	< 0.500	< 0.500	< 0.500
Remaining VOCs	Varies	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

< = not detected above the indicated method reporting limit

BOLD = exceeds cleanup values

Acceptable = no detection in original or duplicate

µg/L = micrograms per liter

ND = not detected

RPD = relative percent different

Table 3. Constituents Detected in Groundwater, 3rd Quarter 2023

Camp Bonneville, Vancouver, Washington

Analyte	MTCA Method B Std. Cleanup	L4MW07B 8/30/2023	L4MW07B Duplicate 8/30/2023	RPD (<20%)	L4MW08A 8/31/2023	L4MW08A Duplicate 8/31/2023	RPD (<20%)	L4MW08B 8/31/2023	L4MW09A 9/6/2023	L4MW09B 9/6/2023	L4MW10A 9/6/2023	L4MW10B 9/6/2023	L4MW11B 9/6/2023	L4MW17 8/30/2023	L4MW18 8/30/2023
Explosives (µg/L)															
2.4.6- Trinitrotoluene	2.9	< 0.100	< 0.100	Acceptable	< 0.100	< 0.100	Acceptable	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100
2,4-Dinitrotoluene	0.28	< 0.100	< 0.100	Acceptable	< 0.100	< 0.100	Acceptable	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100
HMX	800	< 0.100	< 0.100	Acceptable	0.944	1.03	9%	< 0.101	1.2	1.63	0.283	0.161	< 0.500	< 0.100	< 0.100
RDX	1.10	< 0.100	< 0.100	Acceptable	**17.7**	**18.7**	5%	0.196	**3.25**	**20.8**	**1.14**	**13.3**	**46.6**	< 0.100	< 0.100
Remaining Explosives	Varies	ND	ND	Acceptable	ND	ND	Acceptable	ND	ND	ND	ND	ND	ND	ND	ND
Perchlorate (µg/L)															
Perchlorate	11.0	1.49	1.49	0%	**103**	**108**	**5%**	**135**	**229**	**201**	**73**	**251**	**665**	< 0.500	< 0.500
Volatile Organic Compounds (µg/L)															
1,1,1-Trichloroethane	16,000	< 0.500	< 0.500	Acceptable	< 0.500	< 0.500	Acceptable	< 0.500	< 0.500	1.83	< 0.500	2.85	< 0.5	< 0.500	< 0.500
1,1,2,2-Tetrachloroethane	0.220	< 0.500	< 0.500	Acceptable	< 0.500	< 0.500	Acceptable	< 0.500	< 0.500	**< 0.5**	< 0.500	< 0.5	< 0.5	< 0.500	< 0.500
1,1-Dichloroethane	7.7	< 0.500	< 0.500	Acceptable	< 0.500	< 0.500	Acceptable	< 0.500	< 0.500	4.17	< 0.500	5.61	3.69	< 0.500	< 0.500
1,1-Dichloroethene	400	< 0.500	< 0.500	Acceptable	< 0.500	< 0.500	Acceptable	< 0.500	< 0.500	2.41	< 0.500	5.07	1.71	< 0.500	< 0.500
Acetone	7,200	< 2.50	< 2.50	Acceptable	2.78	<2.5	Acceptable	3.09	< 2.50	< 2.5	< 2.5	< 2.5	< 2.5	< 2.50	< 2.50
Dichlorodifluoromethane	1,600	< 0.500	< 0.500	Acceptable	< 0.500	< 0.501	Acceptable	0.87	< 0.500	**8.49**	< 0.500	15.5	6.57	< 0.500	< 0.500
Remaining VOCs	Varies	ND	ND	Acceptable	ND	ND	Acceptable	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

< = not detected above the indicated method reporting limit

BOLD = exceeds cleanup values

Acceptable = no detection in original or duplicate

µg/L = micrograms per liter

ND = not detected

RPD = relative percent different

Table 4. Constituents Detected in Water Supply Wells, 3rd Quarter 2023

Camp Bonneville, Vancouver, Washington

Analyte	MTCA Method B Std. Cleanup	Range Road	Killpack Duplicate		Killpack	Bonneville
		8/29/2023	8/28/2023	RPD (<20%)	8/28/2023	8/28/2023
Explosives (µg/L)						
All Explosives	Varies	ND	ND	Acceptable	ND	ND
Perchlorate (µg/L)						
Perchlorate	11.0	< 0.500	< 0.500	Acceptable	< 0.500	< 0.500
Volatile Organic Compounds (µg/L)						
All VOCs	Varies	ND	ND	Acceptable	ND	ND

Notes:

< = not detected above the indicated method reporting limit

Acceptable = No detection in original or duplicate, or the difference in detection values is less than the reporting limit

µg/L = micrograms per liter

ND = not detected

RPD = relative percent difference

Table 5. Constituents Analyzed in Surface Water - 3rd Quarter 2023

Camp Bonneville, Vancouver, Washington

Analyte	MTCA Method B Std. Cleanup	LC03	LC03 Duplicate		LC15	NF02
		8/28/2023	8/28/2023	RPD (<20%)	8/28/2023	8/28/2023
Perchlorate (µg/L)						
Perchlorate	11.0	< 0.500	< 0.500	Acceptable	< 0.500	< 0.500
Explosives (µg/L)						
RDX	1.10	< 0.100	< 0.100	Acceptable	< 0.100	< 0.100

Notes:

The most stringent MTCA Method B Standard value is used

BOLD = exceeds cleanup values

< = not detected above the indicated MRL

Acceptable = No detection in original or duplicate

µg/L = micrograms per liter

RPD = relative percent different

Appendix A
List of Acronyms and Abbreviations

List of Acronyms and Abbreviations

amsl	above mean sea level
bgs	below ground surface
CD	compact disc
BRAC	Base Realignment and Closure
CHPPM	US Army Center for Health Promotion and Preventative Medicine
COC	contaminants of concern
COPC	chemical of potential concern
DO	dissolved oxygen
DQO	data quality objectives
EDD	electronic data deliverable
EPA	US Environmental Protection Agency
GC/MS	gas chromatography/mass spectrometer
HASP	health and safety plan
HE	high explosives 2,4 DNT, 2,6 DNT
HMX	octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
IC	ion chromatography
IDW	investigation-derived waste
LCS	laboratory control spike
µg/L	micrograms per liter (approximately equal ppb)
µm	micrometer
MDL	method detection limit
mg/L	milligrams per liter (approximately equal ppm)
mL	milliliters
MRL	method reporting limit
MS	matrix spike
MSD	matrix spike duplicate
MTCA	Washington Model Toxics Control Act (Chapter 173-340 WAC)
OE	ordinance and explosives
ORP	oxidation reduction potential
PBS	PBS Engineering and Environmental Inc.
PES	polyethersulfone
ppb	parts per billion
ppm	parts per million
PQL	practical quantitation limit
PVC	polyvinyl chloride
QA	quality assurance
QAPP	quality assurance project plan
QC	quality control
RDX	hexahydro-1,3,5-trinitro-1,3,5-triazine (Cyclonite)
RI	remedial investigation

RPD	relative percent difference
SAP	sampling and analysis plan
SDG	sample delivery groups
SDS	sample data sheets
SI	site investigation
SOP	standard operating procedure
SVOC	semi-volatile organic compound
TBD	to be determined
UXO	unexploded ordnance
VOC	volatile organic compound

Appendix B

Anantek Labs, Level II Data Package

Anatek Labs, Inc.

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504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - email spokane@anateklabs.com

Client:	PBS Engineering - Portland	Work Order:	MDH0994
Address:	4412 SW Corbett Ave	Project:	Camp Bonneville, 76151.012
	Portland, OR 97239	Reported:	10/20/2023 12:44
Attn:	Scott Braunsten		

Analytical Results Report

Sample Location:	03Q23NF02SW		
Lab/Sample Number:	MDH0994-01	Collect Date:	08/28/23 11:30
Date Received:	08/29/23 11:48	Collected By:	S.Eckes+R.Martin
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Perchlorate	ND	ug/L	0.500	8/31/23 18:24	GPB	EPA 6850	

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Analytical Results Report

(Continued)

Sample Location:	03Q23LC03SW		
Lab/Sample Number:	MDH0994-02	Collect Date:	08/28/23 12:45
Date Received:	08/29/23 11:48	Collected By:	S.Eckes+R.Martin
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Perchlorate	ND	ug/L	0.500	8/31/23 18:31	GPB	EPA 6850	

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Analytical Results Report

(Continued)

Sample Location:	03Q23KILLPACKW		
Lab/Sample Number:	MDH0994-03	Collect Date:	08/28/23 15:15
Date Received:	08/29/23 11:48	Collected By:	S.Eckes+R.Martin
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Perchlorate	ND	ug/L	0.500	8/31/23 18:38	GPB	EPA 6850	
Semivolatiles							
1,3,5-TNB	ND	ug/L	0.500	9/14/23 23:43	MER	EPA 8330B	
1,3-Dinitrobenzene	ND	ug/L	0.500	9/14/23 23:43	MER	EPA 8330B	
2,4,6-Trinitrotoluene	ND	ug/L	0.100	9/14/23 23:43	MER	EPA 8330B	
2,4-Dinitrotoluene	ND	ug/L	0.100	9/14/23 23:43	MER	EPA 8330B	
2,6-DNT	ND	ug/L	0.500	9/14/23 23:43	MER	EPA 8330B	
2-Amino-4,6-dinitrotoluene	ND	ug/L	0.500	9/14/23 23:43	MER	EPA 8330B	
2-Nitrotoluene	ND	ug/L	0.500	9/14/23 23:43	MER	EPA 8330B	
3-Nitrotoluene	ND	ug/L	0.500	9/14/23 23:43	MER	EPA 8330B	
4-Amino-2,6-dinitrotoluene	ND	ug/L	0.500	9/14/23 23:43	MER	EPA 8330B	
4-Nitrotoluene	ND	ug/L	0.500	9/14/23 23:43	MER	EPA 8330B	
HMX	ND	ug/L	0.100	9/14/23 23:43	MER	EPA 8330B	
NB	ND	ug/L	0.500	9/14/23 23:43	MER	EPA 8330B	
RDX	ND	ug/L	0.100	9/14/23 23:43	MER	EPA 8330B	
Tetryl	ND	ug/L	0.500	9/14/23 23:43	MER	EPA 8330B	
Surrogate: 1,2-Dinitrobenzene	*80.1%*		*70-130*	*9/14/23 23:43*	*MER*	*EPA 8330B*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	8/31/23 4:22	BKP	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	8/31/23 4:22	BKP	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	8/31/23 4:22	BKP	EPA 8260D	
1,1,2-Trichloroethane	ND	ug/L	0.500	8/31/23 4:22	BKP	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	8/31/23 4:22	BKP	EPA 8260D	
1,1-Dichloroethene	ND	ug/L	0.500	8/31/23 4:22	BKP	EPA 8260D	
1,1-dichloropropene	ND	ug/L	0.500	8/31/23 4:22	BKP	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	8/31/23 4:22	BKP	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	8/31/23 4:22	BKP	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	8/31/23 4:22	BKP	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	8/31/23 4:22	BKP	EPA 8260D	
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.500	8/31/23 4:22	BKP	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	ug/L	0.500	8/31/23 4:22	BKP	EPA 8260D	
1,2-Dichlorobenzene	ND	ug/L	0.500	8/31/23 4:22	BKP	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	8/31/23 4:22	BKP	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	8/31/23 4:22	BKP	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	8/31/23 4:22	BKP	EPA 8260D	
1,3-Dichlorobenzene	ND	ug/L	0.500	8/31/23 4:22	BKP	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	8/31/23 4:22	BKP	EPA 8260D	
1,4-Dichlorobenzene	ND	ug/L	0.500	8/31/23 4:22	BKP	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	8/31/23 4:22	BKP	EPA 8260D	
2-Chlorotoluene	ND	ug/L	0.500	8/31/23 4:22	BKP	EPA 8260D	
2-hexanone	ND	ug/L	2.50	8/31/23 4:22	BKP	EPA 8260D	
4-Chlorotoluene	ND	ug/L	0.500	8/31/23 4:22	BKP	EPA 8260D	
Acetone	2.51	ug/L	2.50	8/31/23 4:22	BKP	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	8/31/23 4:22	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location:	03Q23KILLPACKW		
Lab/Sample Number:	MDH0994-03	Collect Date:	08/28/23 15:15
Date Received:	08/29/23 11:48	Collected By:	S.Eckes+R.Martin
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Benzene	ND	ug/L	0.500	8/31/23 4:22	BKP	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	8/31/23 4:22	BKP	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	8/31/23 4:22	BKP	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	8/31/23 4:22	BKP	EPA 8260D	
Bromoform	ND	ug/L	0.500	8/31/23 4:22	BKP	EPA 8260D	
Bromomethane	ND	ug/L	0.500	8/31/23 4:22	BKP	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	8/31/23 4:22	BKP	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	8/31/23 4:22	BKP	EPA 8260D	
Chlorobenzene	ND	ug/L	0.500	8/31/23 4:22	BKP	EPA 8260D	
Chloroethane	ND	ug/L	0.500	8/31/23 4:22	BKP	EPA 8260D	
Chloroform	ND	ug/L	0.500	8/31/23 4:22	BKP	EPA 8260D	
Chloromethane	ND	ug/L	0.500	8/31/23 4:22	BKP	EPA 8260D	
cis-1,2-dichloroethene	ND	ug/L	0.500	8/31/23 4:22	BKP	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	8/31/23 4:22	BKP	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	8/31/23 4:22	BKP	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	8/31/23 4:22	BKP	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	8/31/23 4:22	BKP	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	8/31/23 4:22	BKP	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	8/31/23 4:22	BKP	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	8/31/23 4:22	BKP	EPA 8260D	
m+p-Xylene	ND	ug/L	0.500	8/31/23 4:22	BKP	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	8/31/23 4:22	BKP	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	8/31/23 4:22	BKP	EPA 8260D	
Methylene chloride	ND	ug/L	2.50	8/31/23 4:22	BKP	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	8/31/23 4:22	BKP	EPA 8260D	
Naphthalene	ND	ug/L	0.500	8/31/23 4:22	BKP	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	8/31/23 4:22	BKP	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	8/31/23 4:22	BKP	EPA 8260D	
o-Xylene	ND	ug/L	0.500	8/31/23 4:22	BKP	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	8/31/23 4:22	BKP	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	8/31/23 4:22	BKP	EPA 8260D	
Styrene	ND	ug/L	0.500	8/31/23 4:22	BKP	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	8/31/23 4:22	BKP	EPA 8260D	
Tetrachloroethene	ND	ug/L	0.500	8/31/23 4:22	BKP	EPA 8260D	
Toluene	ND	ug/L	0.500	8/31/23 4:22	BKP	EPA 8260D	
trans-1,2-Dichloroethene	ND	ug/L	0.500	8/31/23 4:22	BKP	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	8/31/23 4:22	BKP	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	8/31/23 4:22	BKP	EPA 8260D	
Trichlorofluoromethane	ND	ug/L	0.500	8/31/23 4:22	BKP	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	8/31/23 4:22	BKP	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*100%*		*70-130*	*8/31/23 4:22*	*BKP*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*91.9%*		*70-130*	*8/31/23 4:22*	*BKP*	*EPA 8260D*	
Surrogate: Toluene-d8	*95.1%*		*70-130*	*8/31/23 4:22*	*BKP*	*EPA 8260D*	

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Analytical Results Report

(Continued)

Sample Location:	03Q23KILLPACKW		
Lab/Sample Number:	MDH0994-03	Collect Date:	08/28/23 15:15
Date Received:	08/29/23 11:48	Collected By:	S.Eckes+R.Martin
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							

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Analytical Results Report

(Continued)

Sample Location:	03Q23DUPW		
Lab/Sample Number:	MDH0994-04	Collect Date:	08/28/23 14:30
Date Received:	08/29/23 11:48	Collected By:	S.Eckes+R.Martin
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Perchlorate	ND	ug/L	0.500	8/31/23 18:46	GPB	EPA 6850	
Semivolatiles							
1,3,5-TNB	ND	ug/L	0.500	9/15/23 0:21	MER	EPA 8330B	
1,3-Dinitrobenzene	ND	ug/L	0.500	9/15/23 0:21	MER	EPA 8330B	
2,4,6-Trinitrotoluene	ND	ug/L	0.100	9/15/23 0:21	MER	EPA 8330B	
2,4-Dinitrotoluene	ND	ug/L	0.100	9/15/23 0:21	MER	EPA 8330B	
2,6-DNT	ND	ug/L	0.500	9/15/23 0:21	MER	EPA 8330B	
2-Amino-4,6-dinitrotoluene	ND	ug/L	0.500	9/15/23 0:21	MER	EPA 8330B	
2-Nitrotoluene	ND	ug/L	0.500	9/15/23 0:21	MER	EPA 8330B	
3-Nitrotoluene	ND	ug/L	0.500	9/15/23 0:21	MER	EPA 8330B	
4-Amino-2,6-dinitrotoluene	ND	ug/L	0.500	9/15/23 0:21	MER	EPA 8330B	
4-Nitrotoluene	ND	ug/L	0.500	9/15/23 0:21	MER	EPA 8330B	
HMX	ND	ug/L	0.100	9/15/23 0:21	MER	EPA 8330B	
NB	ND	ug/L	0.500	9/15/23 0:21	MER	EPA 8330B	
RDX	ND	ug/L	0.100	9/15/23 0:21	MER	EPA 8330B	
Tetryl	ND	ug/L	0.500	9/15/23 0:21	MER	EPA 8330B	
Surrogate: 1,2-Dinitrobenzene	*79.8%*		*70-130*	*9/15/23 0:21*	*MER*	*EPA 8330B*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	8/31/23 4:54	BKP	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	8/31/23 4:54	BKP	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	8/31/23 4:54	BKP	EPA 8260D	
1,1,2-Trichloroethane	ND	ug/L	0.500	8/31/23 4:54	BKP	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	8/31/23 4:54	BKP	EPA 8260D	
1,1-Dichloroethene	ND	ug/L	0.500	8/31/23 4:54	BKP	EPA 8260D	
1,1-dichloropropene	ND	ug/L	0.500	8/31/23 4:54	BKP	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	8/31/23 4:54	BKP	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	8/31/23 4:54	BKP	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	8/31/23 4:54	BKP	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	8/31/23 4:54	BKP	EPA 8260D	
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.500	8/31/23 4:54	BKP	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	ug/L	0.500	8/31/23 4:54	BKP	EPA 8260D	
1,2-Dichlorobenzene	ND	ug/L	0.500	8/31/23 4:54	BKP	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	8/31/23 4:54	BKP	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	8/31/23 4:54	BKP	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	8/31/23 4:54	BKP	EPA 8260D	
1,3-Dichlorobenzene	ND	ug/L	0.500	8/31/23 4:54	BKP	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	8/31/23 4:54	BKP	EPA 8260D	
1,4-Dichlorobenzene	ND	ug/L	0.500	8/31/23 4:54	BKP	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	8/31/23 4:54	BKP	EPA 8260D	
2-Chlorotoluene	ND	ug/L	0.500	8/31/23 4:54	BKP	EPA 8260D	
2-hexanone	ND	ug/L	2.50	8/31/23 4:54	BKP	EPA 8260D	
4-Chlorotoluene	ND	ug/L	0.500	8/31/23 4:54	BKP	EPA 8260D	
Acetone	ND	ug/L	2.50	8/31/23 4:54	BKP	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	8/31/23 4:54	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location:	03Q23DUPW		
Lab/Sample Number:	MDH0994-04	Collect Date:	08/28/23 14:30
Date Received:	08/29/23 11:48	Collected By:	S.Eckes+R.Martin
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Benzene	ND	ug/L	0.500	8/31/23 4:54	BKP	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	8/31/23 4:54	BKP	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	8/31/23 4:54	BKP	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	8/31/23 4:54	BKP	EPA 8260D	
Bromoform	ND	ug/L	0.500	8/31/23 4:54	BKP	EPA 8260D	
Bromomethane	ND	ug/L	0.500	8/31/23 4:54	BKP	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	8/31/23 4:54	BKP	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	8/31/23 4:54	BKP	EPA 8260D	
Chlorobenzene	ND	ug/L	0.500	8/31/23 4:54	BKP	EPA 8260D	
Chloroethane	ND	ug/L	0.500	8/31/23 4:54	BKP	EPA 8260D	
Chloroform	ND	ug/L	0.500	8/31/23 4:54	BKP	EPA 8260D	
Chloromethane	ND	ug/L	0.500	8/31/23 4:54	BKP	EPA 8260D	
cis-1,2-dichloroethene	ND	ug/L	0.500	8/31/23 4:54	BKP	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	8/31/23 4:54	BKP	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	8/31/23 4:54	BKP	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	8/31/23 4:54	BKP	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	8/31/23 4:54	BKP	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	8/31/23 4:54	BKP	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	8/31/23 4:54	BKP	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	8/31/23 4:54	BKP	EPA 8260D	
m+p-Xylene	ND	ug/L	0.500	8/31/23 4:54	BKP	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	8/31/23 4:54	BKP	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	8/31/23 4:54	BKP	EPA 8260D	
Methylene chloride	ND	ug/L	2.50	8/31/23 4:54	BKP	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	8/31/23 4:54	BKP	EPA 8260D	
Naphthalene	ND	ug/L	0.500	8/31/23 4:54	BKP	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	8/31/23 4:54	BKP	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	8/31/23 4:54	BKP	EPA 8260D	
o-Xylene	ND	ug/L	0.500	8/31/23 4:54	BKP	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	8/31/23 4:54	BKP	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	8/31/23 4:54	BKP	EPA 8260D	
Styrene	ND	ug/L	0.500	8/31/23 4:54	BKP	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	8/31/23 4:54	BKP	EPA 8260D	
Tetrachloroethene	ND	ug/L	0.500	8/31/23 4:54	BKP	EPA 8260D	
Toluene	ND	ug/L	0.500	8/31/23 4:54	BKP	EPA 8260D	
trans-1,2-Dichloroethene	ND	ug/L	0.500	8/31/23 4:54	BKP	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	8/31/23 4:54	BKP	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	8/31/23 4:54	BKP	EPA 8260D	
Trichlorofluoromethane	ND	ug/L	0.500	8/31/23 4:54	BKP	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	8/31/23 4:54	BKP	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*100%*		*70-130*	*8/31/23 4:54*	*BKP*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*95.6%*		*70-130*	*8/31/23 4:54*	*BKP*	*EPA 8260D*	
Surrogate: Toluene-d8	*95.3%*		*70-130*	*8/31/23 4:54*	*BKP*	*EPA 8260D*	

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Analytical Results Report

(Continued)

Sample Location:	03Q23DUPW		
Lab/Sample Number:	MDH0994-04	Collect Date:	08/28/23 14:30
Date Received:	08/29/23 11:48	Collected By:	S.Eckes+R.Martin
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							

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Analytical Results Report

(Continued)

Sample Location:	03Q23DP05SW		
Lab/Sample Number:	MDH0994-05	Collect Date:	08/28/23 09:30
Date Received:	08/29/23 11:48	Collected By:	S.Eckes+R.Martin
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Perchlorate	ND	ug/L	0.500	8/31/23 18:53	GPB	EPA 6850	

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Analytical Results Report

(Continued)

Sample Location: 082823TB
Lab/Sample Number: MDH0994-06 Collect Date: 08/28/23 00:00
Date Received: 08/29/23 11:48 Collected By:
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	8/31/23 5:27	BKP	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	8/31/23 5:27	BKP	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	8/31/23 5:27	BKP	EPA 8260D	
1,1,2-Trichloroethane	ND	ug/L	0.500	8/31/23 5:27	BKP	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	8/31/23 5:27	BKP	EPA 8260D	
1,1-Dichloroethene	ND	ug/L	0.500	8/31/23 5:27	BKP	EPA 8260D	
1,1-dichloropropene	ND	ug/L	0.500	8/31/23 5:27	BKP	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	8/31/23 5:27	BKP	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	8/31/23 5:27	BKP	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	8/31/23 5:27	BKP	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	8/31/23 5:27	BKP	EPA 8260D	
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.500	8/31/23 5:27	BKP	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	ug/L	0.200	8/31/23 5:27	BKP	EPA 8260D	
1,2-Dichlorobenzene	ND	ug/L	0.500	8/31/23 5:27	BKP	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	8/31/23 5:27	BKP	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	8/31/23 5:27	BKP	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	8/31/23 5:27	BKP	EPA 8260D	
1,3-Dichlorobenzene	ND	ug/L	0.500	8/31/23 5:27	BKP	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	8/31/23 5:27	BKP	EPA 8260D	
1,4-Dichlorobenzene	ND	ug/L	0.500	8/31/23 5:27	BKP	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	8/31/23 5:27	BKP	EPA 8260D	
2-Chloroethyl vinyl ether	ND	ug/L	2.50	8/31/23 5:27	BKP	EPA 8260D	
2-Chlorotoluene	ND	ug/L	0.500	8/31/23 5:27	BKP	EPA 8260D	
2-hexanone	ND	ug/L	2.50	8/31/23 5:27	BKP	EPA 8260D	
4-Chlorotoluene	ND	ug/L	0.500	8/31/23 5:27	BKP	EPA 8260D	
Acetone	ND	ug/L	2.50	8/31/23 5:27	BKP	EPA 8260D	
Acrolein	ND	ug/L	2.50	8/31/23 5:27	BKP	EPA 8260D	
Acrylonitrile	ND	ug/L	2.50	8/31/23 5:27	BKP	EPA 8260D	
Benzene	ND	ug/L	0.200	8/31/23 5:27	BKP	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	8/31/23 5:27	BKP	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	8/31/23 5:27	BKP	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.200	8/31/23 5:27	BKP	EPA 8260D	
Bromoform	ND	ug/L	0.500	8/31/23 5:27	BKP	EPA 8260D	
Bromomethane	ND	ug/L	0.500	8/31/23 5:27	BKP	EPA 8260D	
Carbon disulfide	ND	ug/L	2.50	8/31/23 5:27	BKP	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.200	8/31/23 5:27	BKP	EPA 8260D	
Chlorobenzene	ND	ug/L	0.500	8/31/23 5:27	BKP	EPA 8260D	
Chloroethane	ND	ug/L	0.500	8/31/23 5:27	BKP	EPA 8260D	
Chloroform	ND	ug/L	0.200	8/31/23 5:27	BKP	EPA 8260D	
Chloromethane	ND	ug/L	0.500	8/31/23 5:27	BKP	EPA 8260D	
cis-1,2-dichloroethene	ND	ug/L	0.500	8/31/23 5:27	BKP	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.200	8/31/23 5:27	BKP	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	8/31/23 5:27	BKP	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	8/31/23 5:27	BKP	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	8/31/23 5:27	BKP	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	8/31/23 5:27	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: 082823TB
Lab/Sample Number: MDH0994-06 Collect Date: 08/28/23 00:00
Date Received: 08/29/23 11:48 Collected By:
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Hexachlorobutadiene	ND	ug/L	0.500	8/31/23 5:27	BKP	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	8/31/23 5:27	BKP	EPA 8260D	
m+p-Xylene	ND	ug/L	1.00	8/31/23 5:27	BKP	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	8/31/23 5:27	BKP	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	8/31/23 5:27	BKP	EPA 8260D	
Methylene chloride	ND	ug/L	0.500	8/31/23 5:27	BKP	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	8/31/23 5:27	BKP	EPA 8260D	
Naphthalene	ND	ug/L	0.500	8/31/23 5:27	BKP	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	8/31/23 5:27	BKP	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	8/31/23 5:27	BKP	EPA 8260D	
o-Xylene	ND	ug/L	0.500	8/31/23 5:27	BKP	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	8/31/23 5:27	BKP	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	8/31/23 5:27	BKP	EPA 8260D	
Styrene	ND	ug/L	0.500	8/31/23 5:27	BKP	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	8/31/23 5:27	BKP	EPA 8260D	
Tetrachloroethene	ND	ug/L	0.500	8/31/23 5:27	BKP	EPA 8260D	
Toluene	ND	ug/L	0.500	8/31/23 5:27	BKP	EPA 8260D	
trans-1,2-Dichloroethene	ND	ug/L	0.500	8/31/23 5:27	BKP	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.200	8/31/23 5:27	BKP	EPA 8260D	
trans-1-4-Dichloro-2-butene	ND	ug/L	0.500	8/31/23 5:27	BKP	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	8/31/23 5:27	BKP	EPA 8260D	
Trichlorofluoromethane	ND	ug/L	0.500	8/31/23 5:27	BKP	EPA 8260D	
Vinyl acetate	ND	ug/L	0.500	8/31/23 5:27	BKP	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.200	8/31/23 5:27	BKP	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*100%*		*70-130*	*8/31/23 5:27*	*BKP*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*85.9%*		*70-130*	*8/31/23 5:27*	*BKP*	*EPA 8260D*	
Surrogate: Toluene-d8	*95.8%*		*70-130*	*8/31/23 5:27*	*BKP*	*EPA 8260D*	

Authorized Signature,

Justin Doty For Todd Taruscio, Laboratory Manager

L4	The associated blank spike recovery was below method acceptance limits. This analyte was not detected in the sample.
M13	Matrix spike recovery was high due to a potential matrix effect.
PQL	Practical Quantitation Limit
ND	Not Detected
MCL	EPA's Maximum Contaminant Level
Dry	Sample results reported on a dry weight basis
*	Not a state-certified analyte

RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was spiked or duplicated.

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Certifications

Code	Description	Facility	Number
DOE WA	Washington Department of Ecology	Anatek-Moscow, ID	C595

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Quality Control Data

Inorganics

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDH1230 - Perchlorate										
Matrix Spike (BDH1230-MS2)		**Source: MDI0036-01**			Prepared: 8/31/2023 Analyzed: 9/15/2023					
Perchlorate	1.25	M13	0.500	ug/L	1.00	ND	125	80-120		
Matrix Spike Dup (BDH1230-MSD2)		**Source: MDI0036-01**			Prepared: 8/31/2023 Analyzed: 9/15/2023					
Perchlorate	1.14		0.500	ug/L	1.00	ND	114	80-120	9.21	20

Quality Control Data

Semivolatiles

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0041 - Explosives										
Blank (BDI0041-BLK1)					Prepared: 9/1/2023 Analyzed: 9/14/2023					
HMX	ND		0.100	ug/L						
RDX	ND		0.100	ug/L						
1,3,5-TNB	ND		0.500	ug/L						
1,3-Dinitrobenzene	ND		0.500	ug/L						
NB	ND		0.500	ug/L						
2,4,6-Trinitrotoluene	ND		0.100	ug/L						
Tetryl	ND		0.500	ug/L						
2,6-DNT	ND		0.500	ug/L						
2,4-Dinitrotoluene	ND		0.100	ug/L						
2-Nitrotoluene	ND		0.500	ug/L						
4-Nitrotoluene	ND		0.500	ug/L						
4-Amino-2,6-dinitrotoluene	ND		0.500	ug/L						
3-Nitrotoluene	ND		0.500	ug/L						
2-Amino-4,6-dinitrotoluene	ND		0.500	ug/L						
Surrogate: 1,2-Dinitrobenzene			*8.06*	*ug/L*	*10.0*		*80.6*	*70-130*		
LCS (BDI0041-BS1)					Prepared: 9/1/2023 Analyzed: 9/14/2023					
HMX	4.72		0.100	ug/L	5.00		94.4	70-130		
RDX	4.91		0.100	ug/L	5.00		98.2	70-130		
1,3,5-TNB	4.26		0.500	ug/L	5.00		85.2	70-130		
1,3-Dinitrobenzene	4.37		0.500	ug/L	5.00		87.5	70-130		
NB	4.28		0.500	ug/L	5.00		85.7	70-130		
2,4,6-Trinitrotoluene	4.40		0.100	ug/L	5.00		88.0	70-130		
Tetryl	4.18		0.500	ug/L	5.00		83.7	70-130		
2,6-DNT	4.22		0.500	ug/L	5.00		84.5	70-130		
2,4-Dinitrotoluene	4.35		0.100	ug/L	5.00		86.9	70-130		
2-Nitrotoluene	4.47		0.500	ug/L	5.00		89.4	70-130		
4-Nitrotoluene	3.67		0.500	ug/L	5.00		73.5	70-130		
4-Amino-2,6-dinitrotoluene	4.24		0.500	ug/L	5.00		84.8	70-130		
3-Nitrotoluene	3.83		0.500	ug/L	5.00		76.6	70-130		
2-Amino-4,6-dinitrotoluene	4.46		0.500	ug/L	5.00		89.1	70-130		
Surrogate: 1,2-Dinitrobenzene		*L4*	*6.72*	*ug/L*	*10.0*		*67.2*	*70-130*		

Quality Control Data
(Continued)

Semivolatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0041 - Explosives (Continued)										
LCS Dup (BDI0041-BSD1)					Prepared: 9/1/2023 Analyzed: 9/14/2023					
HMX	4.67		0.100	ug/L	5.00		93.5	70-130	0.957	25
RDX	4.87		0.100	ug/L	5.00		97.4	70-130	0.891	25
1,3,5-TNB	4.22		0.500	ug/L	5.00		84.5	70-130	0.818	25
1,3-Dinitrobenzene	4.26		0.500	ug/L	5.00		85.2	70-130	2.58	25
NB	4.11		0.500	ug/L	5.00		82.1	70-130	4.21	25
2,4,6-Trinitrotoluene	4.35		0.100	ug/L	5.00		87.1	70-130	1.07	25
Tetryl	4.34		0.500	ug/L	5.00		86.8	70-130	3.71	25
2,6-DNT	4.51		0.500	ug/L	5.00		90.2	70-130	6.55	25
2,4-Dinitrotoluene	4.36		0.100	ug/L	5.00		87.2	70-130	0.287	25
2-Nitrotoluene	4.77		0.500	ug/L	5.00		95.3	70-130	6.46	25
4-Nitrotoluene	3.80		0.500	ug/L	5.00		76.0	70-130	3.35	25
4-Amino-2,6-dinitrotoluene	4.43		0.500	ug/L	5.00		88.6	70-130	4.38	25
3-Nitrotoluene	4.29		0.500	ug/L	5.00		85.9	70-130	11.5	25
2-Amino-4,6-dinitrotoluene	4.53		0.500	ug/L	5.00		90.6	70-130	1.61	25
Surrogate: 1,2-Dinitrobenzene		*L4*	*5.83*	*ug/L*	*10.0*		*58.3*	*70-130*		

Quality Control Data
(Continued)

Volatiles

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDH1183 - VOC										
Blank (BDH1183-BLK1)					Prepared & Analyzed: 8/30/2023					
cis-1,2-Dichloroethylene	ND		0.500	ug/L						
1,1,1,2-Tetrachloroethane	ND		0.500	ug/L						
Isopropylbenzene	ND		0.500	ug/L						
m/p Xylenes (MCL for total)	ND		0.500	ug/L						
Ethylbenzene	ND		0.500	ug/L						
Dichlorodifluoromethane	ND		0.500	ug/L						
Methyl ethyl ketone (MEK)	ND		2.50	ug/L						
Hexachlorobutadiene	ND		0.500	ug/L						
Dibromomethane	ND		0.500	ug/L						
Chloroethane	ND		0.500	ug/L						
cis-1,3-Dichloropropene	ND		0.500	ug/L						
Chloromethane	ND		0.500	ug/L						
trans-1,3-Dichloropropene	ND		0.500	ug/L						
Chloroform	ND		0.500	ug/L						
Methyl isobutyl ketone (MIBK)	ND		2.50	ug/L						
Dibromochloromethane	ND		0.500	ug/L						
Styrene	ND		0.500	ug/L						
DBCP (screening)	ND		0.500	ug/L						
Chlorobenzene (Monochlorobenzene)	ND		0.500	ug/L						
Trichloroethene	ND		0.500	ug/L						
Vinyl Chloride	ND		0.500	ug/L						
Toluene	ND		0.500	ug/L						
Trichloroflouromethane	ND		0.500	ug/L						
tert-Butylbenzene	ND		0.500	ug/L						
Methylene Chloride (Dichloromethane)	ND		2.50	ug/L						

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Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDH1183 - VOC (Continued)										
Blank (BDH1183-BLK1)					Prepared & Analyzed: 8/30/2023					
sec-Butylbenzene	ND		0.500	ug/L						
p-isopropyltoluene	ND		0.500	ug/L						
o-Xylene (MCL for total)	ND		0.500	ug/L						
n-Propylbenzene	ND		0.500	ug/L						
n-Butylbenzene	ND		0.500	ug/L						
Naphthalene	ND		0.500	ug/L						
methyl-t-butyl ether (MTBE)	ND		0.500	ug/L						
Tetrachloroethylene	ND		0.500	ug/L						
1,2,3-Trichlorobenzene	ND		0.500	ug/L						
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	ND		0.500	ug/L						
1,2-Dichloroethane	ND		0.500	ug/L						
trans-1,2 Dichloroethylene	ND		0.500	ug/L						
EDB (screening)	ND		0.500	ug/L						
1,2,4-Trimethylbenzene	ND		0.500	ug/L						
1,3,5-Trimethylbenzene	ND		0.500	ug/L						
1,2,3-Trichloropropane	ND		0.500	ug/L						
m-Dichlorobenzene	ND		0.500	ug/L						
1,1-Dichloropropene	ND		0.500	ug/L						
1,1-Dichloroethylene	ND		0.500	ug/L						
1,1-Dichloroethane	ND		0.500	ug/L						
1,1,2-Trichlorethane	ND		0.500	ug/L						
1,1,2,2-Tetrachloroethane	ND		0.500	ug/L						
1,1,1-Trichloroethane	ND		0.500	ug/L						
1,2,4-Trichlorobenzene	ND		0.500	ug/L						
p-Chlorotoluene	ND		0.500	ug/L						
Carbon disulfide	ND		0.500	ug/L						
Bromomethane	ND		0.500	ug/L						
Bromoform	ND		0.500	ug/L						
Bromodichloromethane	ND		0.500	ug/L						
Bromochloromethane	ND		0.500	ug/L						
Bromobenzene	ND		0.500	ug/L						
Benzene	ND		0.500	ug/L						
1,2-Dichloropropane	ND		0.500	ug/L						
Acetone	ND		2.50	ug/L						
Carbon Tetrachloride	ND		0.500	ug/L						
2-hexanone	ND		2.50	ug/L						
o-Chlorotoluene	ND		0.500	ug/L						
2,2-Dichloropropane	ND		0.500	ug/L						
1,4-Dichlorobenzene (para-Dichlorobenzene)	ND		0.500	ug/L						
1,3-Dichloropropane	ND		0.500	ug/L						
Acrylonitrile	ND		0.500	ug/L						
Surrogate: Toluene-d8			*19.4*	*ug/L*	*20.0*		*97.2*	*70-130*		
Surrogate: 4-Bromofluorobenzene			*18.7*	*ug/L*	*20.0*		*93.7*	*70-130*		
Surrogate: 1,2-Dichlorobenzene-d4			*20.0*	*ug/L*	*20.0*		*100*	*70-130*		

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Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDH1183 - VOC (Continued)										
LCS (BDH1183-BS1)					Prepared & Analyzed: 8/30/2023					
o-Chlorotoluene	10.4		0.500	ug/L	10.0		104	80-120		
Dichlorodifluoromethane	9.26		0.500	ug/L	10.0		92.6	57-130		
Chlorobenzene (Monochlorobenzene)	8.46		0.500	ug/L	10.0		84.6	80-120		
Methyl isobutyl ketone (MIBK)	8.47		2.50	ug/L	10.0		84.7	70-136		
Methyl ethyl ketone (MEK)	8.99		2.50	ug/L	10.0		89.9	55-154		
m/p Xylenes (MCL for total)	19.0		0.500	ug/L	20.0		95.2	80-120		
Isopropylbenzene	9.76		0.500	ug/L	10.0		97.6	80-120		
Naphthalene	8.06		0.500	ug/L	10.0		80.6	66-133		
Ethylbenzene	9.57		0.500	ug/L	10.0		95.7	80-120		
n-Butylbenzene	9.75		0.500	ug/L	10.0		97.5	74-122		
Dibromomethane	9.35		0.500	ug/L	10.0		93.5	80-120		
Dibromochloromethane	8.84		0.500	ug/L	10.0		88.4	80-121		
cis-1,3-Dichloropropene	8.33		0.500	ug/L	10.0		83.3	79-123		
cis-1,2-Dichloroethylene	9.03		0.500	ug/L	10.0		90.3	80-120		
Chloroform	9.67		0.500	ug/L	10.0		96.7	80-120		
1,4-Dichlorobenzene (para-Dichlorobenzene)	8.92		0.500	ug/L	10.0		89.2	80-120		
Hexachlorobutadiene	9.44		0.500	ug/L	10.0		94.4	80-120		
Tetrachloroethylene	9.21		0.500	ug/L	10.0		92.1	80-120		
Vinyl Chloride	9.33		0.500	ug/L	10.0		93.3	75-120		
Trichloroflouromethane	10.0		0.500	ug/L	10.0		100	61-140		
Trichloroethene	9.04		0.500	ug/L	10.0		90.4	80-120		
trans-1,3-Dichloropropene	8.46		0.500	ug/L	10.0		84.6	69-130		
trans-1,2 Dichloroethylene	9.43		0.500	ug/L	10.0		94.3	80-120		
methyl-t-butyl ether (MTBE)	8.45		0.500	ug/L	10.0		84.5	71-130		
Toluene	9.31		0.500	ug/L	10.0		93.1	80-120		
Carbon Tetrachloride	9.83		0.500	ug/L	10.0		98.3	80-120		
tert-Butylbenzene	10.0		0.500	ug/L	10.0		100	80-120		
Styrene	10.4		0.500	ug/L	10.0		104	80-120		
sec-Butylbenzene	10.5		0.500	ug/L	10.0		105	80-120		
p-isopropyltoluene	9.95		0.500	ug/L	10.0		99.5	80-120		
o-Xylene (MCL for total)	9.50		0.500	ug/L	10.0		95.0	80-120		
n-Propylbenzene	10.2		0.500	ug/L	10.0		102	80-120		
1,2,3-Trichlorobenzene	9.23		0.500	ug/L	10.0		92.3	78-120		
Chloroethane	10.1		0.500	ug/L	10.0		101	78-120		
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	8.95		0.500	ug/L	10.0		89.5	80-120		
EDB (screening)	9.12		0.500	ug/L	10.0		91.2	70-130		
DBCP (screening)	8.22		0.500	ug/L	10.0		82.2	71-128		
1,2,4-Trimethylbenzene	10.4		0.500	ug/L	10.0		104	80-120		
1,2-Dichloroethane	9.17		0.500	ug/L	10.0		91.7	80-120		
1,2,3-Trichloropropane	9.30		0.500	ug/L	10.0		93.0	80-120		
1,2-Dichloropropane	9.25		0.500	ug/L	10.0		92.5	80-120		
1,1-Dichloropropene	10.1		0.500	ug/L	10.0		101	80-120		
1,1-Dichloroethylene	9.26		0.500	ug/L	10.0		92.6	70-129		
1,1-Dichloroethane	9.17		0.500	ug/L	10.0		91.7	80-120		
1,1,2-Trichlorethane	9.12		0.500	ug/L	10.0		91.2	80-120		
1,1,2,2-Tetrachloroethane	9.14		0.500	ug/L	10.0		91.4	77-123		
1,1,1-Trichloroethane	9.38		0.500	ug/L	10.0		93.8	80-120		
1,2,4-Trichlorobenzene	8.47		0.500	ug/L	10.0		84.7	80-120		
p-Chlorotoluene	10.1		0.500	ug/L	10.0		101	80-124		
Carbon disulfide	9.20		0.500	ug/L	10.0		92.0	80-120		

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Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDH1183 - VOC (Continued)										
LCS (BDH1183-BS1)					Prepared & Analyzed: 8/30/2023					
Bromoform	8.34		0.500	ug/L	10.0		83.4	68-133		
Bromodichloromethane	8.84		0.500	ug/L	10.0		88.4	80-120		
Bromochloromethane	9.39		0.500	ug/L	10.0		93.9	80-120		
Bromobenzene	9.06		0.500	ug/L	10.0		90.6	80-120		
Acrylonitrile	8.85		0.500	ug/L	10.0		88.5	73-131		
1,1,1,2-Tetrachloroethane	8.97		0.500	ug/L	10.0		89.7	80-120		
2-hexanone	7.88		2.50	ug/L	10.0		78.8	65-140		
2,2-Dichloropropane	8.95		0.500	ug/L	10.0		89.5	80-120		
1,3-Dichloropropane	9.24		0.500	ug/L	10.0		92.4	80-120		
m-Dichlorobenzene	8.92		0.500	ug/L	10.0		89.2	80-120		
1,3,5-Trimethylbenzene	10.4		0.500	ug/L	10.0		104	80-121		
Benzene	9.34		0.500	ug/L	10.0		93.4	80-120		
Surrogate: Toluene-d8			*20.6*	*ug/L*	*20.0*		*103*	*70-130*		
Surrogate: 4-Bromofluorobenzene			*20.5*	*ug/L*	*20.0*		*102*	*70-130*		
Surrogate: 1,2-Dichlorobenzene-d4			*20.0*	*ug/L*	*20.0*		*100*	*70-130*		

ANATEK LABS

Chain of Custody Record

Anatek Labs
1282 Alturas Drive, Moscow ID
504 E Sprague Ste D, Spokane W

Due: 09/13/23

Turn Aroun

Company Name: PBS Engineering and Environmental	Project Manager: Scott Braunsten
Address: 4412 S Corbett Ave	Project Name & #: Camp Bonneville, 76151.011
City: Portland State: OR Zip: 97239	Purchase Order #:
Phone: 503-248-1939	Sampler Name & Phone: S. Eckes + R. Martin
Email Address(es): scott.braunsten@pbsusa.com, samantha.eckes@pbsusa.com	

Please refer to our normal turn around times at www.anateklabs.com/pricing-lists

✓ Normal
__Next Day*
__2nd Day*
__Other*_____

__Phone
__Email

*All rush order requests must have prior approval

List Analyses Requested

Lab ID	Sample Identification	Sampling Date/Time	Matrix	# of Containers	Sample Volume	VOCs by 8260B	Explosives by 8330	Perchlorate by 6850	RDX 8330							
	03Q23NF07SW	8/28/23 1130	H2O					✓	✓							
	03Q23LC03SW	1245						✓	✓							
	03Q23KillpackW	1515				✓	✓	✓		SR						
	03Q23DUPW	1430				✓	✓	✓	~~✓~~							
	03Q23DP05SW	930						✓	✓							

Note Special Instructions/Comments

Please send login confirmation

Please provide EQuIS EDD + WA EIM

Inspection Checklist

Received Intact?	Y	N
Labels & Chains Agree?	Y	N
Containers Sealed?	Y	N
No VOC Head Space?	Y	N
Cooler?	Y	N
Ice/Ice Packs Present?	Y	N

Temperature (°C):_____
Number of Containers:_____
Shipped Via:_____
Preservative:_____
Date & Time:_____
Inspected By:_____

	Printed Name	Signature	Company	Date	Time
Relinquished by	S. Eckes		PBS	8/28/23	1715
Received by	TB			8/29/23	1154
Relinquished by					
Received by					
Relinquished by					
Received by					

Samples submitted to Anatek Labs may be subcontacted to other accredited labs if necessary. This message serves as notice of this possibility. Subcontracted analyses will be clearly noted on the analytical report.

Anatek Labs, Inc.

Sample Receipt and Preservation Form

Client Name: PBC PBS SM 8.29.23

TAT: (Normal) RUSH: _____ days

Samples Received From: (FedEx) UPS USPS Client Courier Other: _____

Custody Seal on Cooler/Box: Yes (No) Custody Seals Intact: Yes No (N/A)

Number of Coolers/Boxes: 2 Type of Ice: (Wet Ice) Ice Packs Dry Ice None

Packing Material: (Bubble Wrap) Bags Foam/Peanuts Paper None Other: _____

Cooler Temp As Read (°C): 4.4 cc Cooler Temp Corrected (°C): — Thermometer Used: IR-5

				Comments:
Samples Received Intact?	(Yes)	No	N/A	030236C035W Perchlorate
Chain of Custody Present/Complete?	(Yes)	No	N/A	RDX x2
Labels and Chains Agree?	(Yes)	(No)	N/A	
Samples Received Within Hold Time?	(Yes)	No	N/A	
Correct Containers Received?	(Yes)	(No)	N/A	250mL H2SO4 - will not work for RDX 8330
Anatek Bottles Used?	(Yes)	(No)	Unknown	
Total Number of Sample Bottles Received: 19				

				Initial pH:	pH Paper ID:
Samples Properly Preserved?	(Yes)	No	N/A	<2 or	
If No, record preservation and pH-after details					
VOC Vials Free of Headspace (<6mm)?	(Yes)	No	N/A		
VOC Trip Blanks Present?	(Yes)	No	N/A		

Record preservatives (and lot numbers, if known) for containers below:

644 HCl 8260 x 6 + TB
6250 SA RDX x 6
P 125 Perchlorate x 5

Notes, comments, etc. (also use this space if contacting the client - record names and date/time)

Email about missing chain for samples 8.29.23 SM

Received/Inspected By: TB Date/Time: 8/29/23 11:48

Form F19.01 - Eff 1 Dec 2022

Justin Doty

From: Scott Braunsten <Scott.Braunsten@pbsusa.com>
Sent: Tuesday, August 29, 2023 11:51 AM
To: Justin Doty
Cc: Samantha Eckes
Subject: New Camp Bonneville project number

Hi Justin,

Sam asked me to email you to make sure you had our new project number for the Camp Bonneville samples coming in this week. We are now using 76151.012 for the sampling events, third quarter will be 76151.012, Phase 0001.

Sincerely,

Scott Braunsten, RG, LG (he/him)
Senior Geologist

PBS | *Great People. Great Results.*
PBS Engineering and Environmental Inc.
4412 S Corbett Ave., Portland, OR 97239
main: 503.248.1939 | direct: 503.417.7737 | mobile: 503.939.7910
scott.braunsten@pbsusa.com
pbsusa.com

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Chain of Custody Record

Anatek Labs, Inc.
1282 Alturas Drive, Moscow ID 83843 (208) 883-2839
504 E Sprague Ste D, Spokane WA 99202 (509) 838-3999

Company Name: PBS Engineering and Environmental	Project Manager: Scott Braunsten
Address: 4412 S Corbett Ave	Project Name & #: Camp Bonneville, 76151.011
City: Portland State: OR Zip: 97239	Purchase Order #:
Phone: 503-248-1939	Sampler Name & Phone: S. Eckes + R. Martin 8452649692
Email Address(es): scott.braunsten@pbsusa.com, samantha.eckes@pbsusa.com	

Turn Around Time & Reporting

Please refer to our normal turn around times at www.anateklabs.com/pricing-lists

✓ Normal __Phone
__Next Day* __Email
__2nd Day*
__Other*_____

*All rush order requests must have prior approval

•Edited to update corrections

List Analyses Requested

Lab ID	Sample Identification	Sampling Date/Time	Matrix	# of Containers	Sample Volume	VOCs by 8260B	Explosives by 8330	Perchlorate by 6850	RDX by 8330
	03Q23NF02SW	8/28/23 1130	H2O	3				X	X
	03Q23LC03SW	1245		5				X	X
	03Q23Kill packw	1515		6		X	X	X	
	03Q23DupW	1430		6		X	X	X	
	03Q23DP05SW	930		3				X	X
	082823TB	—		1		X			

Note Special Instructions/Comments

Please send login confirmation

Please provide EQuIS EDD + WA EIM

Updated COC 8/31/23

Inspection Checklist

Received Intact?	Y	N
Labels & Chains Agree?	Y	N
Containers Sealed?	Y	N
No VOC Head Space?	Y	N
Cooler?	Y	N
Ice/Ice Packs Present?	Y	N

Temperature (°C):_____
Number of Containers:_____
Shipped Via:_____
Preservative:_____
Date & Time:_____
Inspected By:_____

	Printed Name	Signature	Company	Date	Time
Relinquished by	S. Eckes		PBS	8/30/23	1415
Received by					
Relinquished by					
Received by					
Relinquished by					
Received by					

Samples submitted to Anatek Labs may be subcontacted to other accredited labs if necessary. This message serves as notice of this possibility. Subcontracted analyses will be clearly noted on the analytical report.

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Client:	PBS Engineering - Portland	Work Order:	MDH0998
Address:	4412 SW Corbett Ave	Project:	Camp Bonneville, 76151.012
	Portland, OR 97239	Reported:	10/20/2023 13:08
Attn:	Scott Braunsten		

Analytical Results Report

Sample Location:	03Q23LC15SW		
Lab/Sample Number:	MDH0998-01	Collect Date:	08/28/23 10:20
Date Received:	08/29/23 11:48	Collected By:	S.Eckes+R.Martin
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Perchlorate	ND	ug/L	0.500	8/31/23 19:07	GPB	EPA 6850	

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Analytical Results Report

(Continued)

Sample Location: 03Q23BONNEVILLEW
Lab/Sample Number: MDH0998-02 Collect Date: 08/28/23 10:20
Date Received: 08/29/23 11:48 Collected By: S.Eckes+R.Martin
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Perchlorate	ND	ug/L	0.500	8/31/23 19:15	GPB	EPA 6850	
Semivolatiles							
1,3,5-TNB	ND	ug/L	0.500	9/15/23 0:58	MER	EPA 8330B	
1,3-Dinitrobenzene	ND	ug/L	0.500	9/15/23 0:58	MER	EPA 8330B	
2,4,6-Trinitrotoluene	ND	ug/L	0.100	9/15/23 0:58	MER	EPA 8330B	
2,4-Dinitrotoluene	ND	ug/L	0.100	9/15/23 0:58	MER	EPA 8330B	
2,6-DNT	ND	ug/L	0.500	9/15/23 0:58	MER	EPA 8330B	
2-Amino-4,6-dinitrotoluene	ND	ug/L	0.500	9/15/23 0:58	MER	EPA 8330B	
2-Nitrotoluene	ND	ug/L	0.500	9/15/23 0:58	MER	EPA 8330B	
3-Nitrotoluene	ND	ug/L	0.500	9/15/23 0:58	MER	EPA 8330B	
4-Amino-2,6-dinitrotoluene	ND	ug/L	0.500	9/15/23 0:58	MER	EPA 8330B	
4-Nitrotoluene	ND	ug/L	0.500	9/15/23 0:58	MER	EPA 8330B	
HMX	ND	ug/L	0.100	9/15/23 0:58	MER	EPA 8330B	
NB	ND	ug/L	0.500	9/15/23 0:58	MER	EPA 8330B	
RDX	ND	ug/L	0.100	9/15/23 0:58	MER	EPA 8330B	
Tetryl	ND	ug/L	0.500	9/15/23 0:58	MER	EPA 8330B	
Surrogate: 1,2-Dinitrobenzene	*74.3%*		*70-130*	*9/15/23 0:58*	*MER*	*EPA 8330B*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	9/6/23 17:37	BKP	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	9/6/23 17:37	BKP	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	9/6/23 17:37	BKP	EPA 8260D	
1,1,2-Trichloroethane	ND	ug/L	0.500	9/6/23 17:37	BKP	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	9/6/23 17:37	BKP	EPA 8260D	
1,1-Dichloroethene	ND	ug/L	0.500	9/6/23 17:37	BKP	EPA 8260D	
1,1-dichloropropene	ND	ug/L	0.500	9/6/23 17:37	BKP	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	9/6/23 17:37	BKP	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	9/6/23 17:37	BKP	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	9/6/23 17:37	BKP	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	9/6/23 17:37	BKP	EPA 8260D	
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.500	9/6/23 17:37	BKP	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	ug/L	0.500	9/6/23 17:37	BKP	EPA 8260D	
1,2-Dichlorobenzene	ND	ug/L	0.500	9/6/23 17:37	BKP	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	9/6/23 17:37	BKP	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	9/6/23 17:37	BKP	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	9/6/23 17:37	BKP	EPA 8260D	
1,3-Dichlorobenzene	ND	ug/L	0.500	9/6/23 17:37	BKP	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	9/6/23 17:37	BKP	EPA 8260D	
1,4-Dichlorobenzene	ND	ug/L	0.500	9/6/23 17:37	BKP	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	9/6/23 17:37	BKP	EPA 8260D	
2-Chlorotoluene	ND	ug/L	0.500	9/6/23 17:37	BKP	EPA 8260D	
2-hexanone	ND	ug/L	2.50	9/6/23 17:37	BKP	EPA 8260D	
4-Chlorotoluene	ND	ug/L	0.500	9/6/23 17:37	BKP	EPA 8260D	
Acetone	2.57	ug/L	2.50	9/6/23 17:37	BKP	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	9/6/23 17:37	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: 03Q23BONNEVILLEW
Lab/Sample Number: MDH0998-02 Collect Date: 08/28/23 10:20
Date Received: 08/29/23 11:48 Collected By: S.Eckes+R.Martin
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Benzene	ND	ug/L	0.500	9/6/23 17:37	BKP	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	9/6/23 17:37	BKP	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	9/6/23 17:37	BKP	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	9/6/23 17:37	BKP	EPA 8260D	
Bromoform	ND	ug/L	0.500	9/6/23 17:37	BKP	EPA 8260D	
Bromomethane	ND	ug/L	0.500	9/6/23 17:37	BKP	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	9/6/23 17:37	BKP	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	9/6/23 17:37	BKP	EPA 8260D	
Chlorobenzene	ND	ug/L	0.500	9/6/23 17:37	BKP	EPA 8260D	
Chloroethane	ND	ug/L	0.500	9/6/23 17:37	BKP	EPA 8260D	
Chloroform	ND	ug/L	0.500	9/6/23 17:37	BKP	EPA 8260D	
Chloromethane	ND	ug/L	0.500	9/6/23 17:37	BKP	EPA 8260D	
cis-1,2-dichloroethene	ND	ug/L	0.500	9/6/23 17:37	BKP	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	9/6/23 17:37	BKP	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	9/6/23 17:37	BKP	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	9/6/23 17:37	BKP	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	9/6/23 17:37	BKP	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	9/6/23 17:37	BKP	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	9/6/23 17:37	BKP	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	9/6/23 17:37	BKP	EPA 8260D	
m+p-Xylene	ND	ug/L	0.500	9/6/23 17:37	BKP	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	9/6/23 17:37	BKP	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	9/6/23 17:37	BKP	EPA 8260D	
Methylene chloride	ND	ug/L	2.50	9/6/23 17:37	BKP	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	9/6/23 17:37	BKP	EPA 8260D	
Naphthalene	ND	ug/L	0.500	9/6/23 17:37	BKP	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	9/6/23 17:37	BKP	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	9/6/23 17:37	BKP	EPA 8260D	
o-Xylene	ND	ug/L	0.500	9/6/23 17:37	BKP	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	9/6/23 17:37	BKP	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	9/6/23 17:37	BKP	EPA 8260D	
Styrene	ND	ug/L	0.500	9/6/23 17:37	BKP	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	9/6/23 17:37	BKP	EPA 8260D	
Tetrachloroethene	ND	ug/L	0.500	9/6/23 17:37	BKP	EPA 8260D	
Toluene	ND	ug/L	0.500	9/6/23 17:37	BKP	EPA 8260D	
trans-1,2-Dichloroethene	ND	ug/L	0.500	9/6/23 17:37	BKP	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	9/6/23 17:37	BKP	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	9/6/23 17:37	BKP	EPA 8260D	
Trichlorofluoromethane	ND	ug/L	0.500	9/6/23 17:37	BKP	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	9/6/23 17:37	BKP	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*100%*		*70-130*	*9/6/23 17:37*	*BKP*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*95.0%*		*70-130*	*9/6/23 17:37*	*BKP*	*EPA 8260D*	
Surrogate: Toluene-d8	*97.5%*		*70-130*	*9/6/23 17:37*	*BKP*	*EPA 8260D*	

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Analytical Results Report

(Continued)

Sample Location:	03Q23BONNEVILLEW		
Lab/Sample Number:	MDH0998-02	Collect Date:	08/28/23 10:20
Date Received:	08/29/23 11:48	Collected By:	S.Eckes+R.Martin
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							

Authorized Signature,

Justin Doty For Todd Taruscio, Laboratory Manager

L4	The associated blank spike recovery was below method acceptance limits. This analyte was not detected in the sample.
M1	Matrix spike recovery was high; the associated blank spike recovery was acceptable. Potential matrix effect
M13	Matrix spike recovery was high due to a potential matrix effect.
PQL	Practical Quantitation Limit
ND	Not Detected
MCL	EPA's Maximum Contaminant Level
Dry	Sample results reported on a dry weight basis
*	Not a state-certified analyte
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was spiked or duplicated.

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Certifications

Code	Description	Facility	Number
DOE WA	Washington Department of Ecology	Anatek-Moscow, ID	C595

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Quality Control Data

Inorganics

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDH1230 - Perchlorate										
Matrix Spike (BDH1230-MS2)		**Source: MDI0036-01**			Prepared: 8/31/2023 Analyzed: 9/15/2023					
Perchlorate	1.25	M13	0.500	ug/L	1.00	ND	125	80-120		
Matrix Spike Dup (BDH1230-MSD2)		**Source: MDI0036-01**			Prepared: 8/31/2023 Analyzed: 9/15/2023					
Perchlorate	1.14		0.500	ug/L	1.00	ND	114	80-120	9.21	20

Quality Control Data

Semivolatiles

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0041 - Explosives										
Blank (BDI0041-BLK1)					Prepared: 9/1/2023 Analyzed: 9/14/2023					
HMX	ND		0.100	ug/L						
RDX	ND		0.100	ug/L						
1,3,5-TNB	ND		0.500	ug/L						
1,3-Dinitrobenzene	ND		0.500	ug/L						
NB	ND		0.500	ug/L						
2,4,6-Trinitrotoluene	ND		0.100	ug/L						
Tetryl	ND		0.500	ug/L						
2,6-DNT	ND		0.500	ug/L						
2,4-Dinitrotoluene	ND		0.100	ug/L						
2-Nitrotoluene	ND		0.500	ug/L						
4-Nitrotoluene	ND		0.500	ug/L						
4-Amino-2,6-dinitrotoluene	ND		0.500	ug/L						
3-Nitrotoluene	ND		0.500	ug/L						
2-Amino-4,6-dinitrotoluene	ND		0.500	ug/L						
Surrogate: 1,2-Dinitrobenzene			*8.06*	*ug/L*	*10.0*		*80.6*	*70-130*		
LCS (BDI0041-BS1)					Prepared: 9/1/2023 Analyzed: 9/14/2023					
HMX	4.72		0.100	ug/L	5.00		94.4	70-130		
RDX	4.91		0.100	ug/L	5.00		98.2	70-130		
1,3,5-TNB	4.26		0.500	ug/L	5.00		85.2	70-130		
1,3-Dinitrobenzene	4.37		0.500	ug/L	5.00		87.5	70-130		
NB	4.28		0.500	ug/L	5.00		85.7	70-130		
2,4,6-Trinitrotoluene	4.40		0.100	ug/L	5.00		88.0	70-130		
Tetryl	4.18		0.500	ug/L	5.00		83.7	70-130		
2,6-DNT	4.22		0.500	ug/L	5.00		84.5	70-130		
2,4-Dinitrotoluene	4.35		0.100	ug/L	5.00		86.9	70-130		
2-Nitrotoluene	4.47		0.500	ug/L	5.00		89.4	70-130		
4-Nitrotoluene	3.67		0.500	ug/L	5.00		73.5	70-130		
4-Amino-2,6-dinitrotoluene	4.24		0.500	ug/L	5.00		84.8	70-130		
3-Nitrotoluene	3.83		0.500	ug/L	5.00		76.6	70-130		
2-Amino-4,6-dinitrotoluene	4.46		0.500	ug/L	5.00		89.1	70-130		
Surrogate: 1,2-Dinitrobenzene		*L4*	*6.72*	*ug/L*	*10.0*		*67.2*	*70-130*		

Quality Control Data
(Continued)

Semivolatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0041 - Explosives (Continued)										
LCS Dup (BDI0041-BSD1)					Prepared: 9/1/2023 Analyzed: 9/14/2023					
HMX	4.67		0.100	ug/L	5.00		93.5	70-130	0.957	25
RDX	4.87		0.100	ug/L	5.00		97.4	70-130	0.891	25
1,3,5-TNB	4.22		0.500	ug/L	5.00		84.5	70-130	0.818	25
1,3-Dinitrobenzene	4.26		0.500	ug/L	5.00		85.2	70-130	2.58	25
NB	4.11		0.500	ug/L	5.00		82.1	70-130	4.21	25
2,4,6-Trinitrotoluene	4.35		0.100	ug/L	5.00		87.1	70-130	1.07	25
Tetryl	4.34		0.500	ug/L	5.00		86.8	70-130	3.71	25
2,6-DNT	4.51		0.500	ug/L	5.00		90.2	70-130	6.55	25
2,4-Dinitrotoluene	4.36		0.100	ug/L	5.00		87.2	70-130	0.287	25
2-Nitrotoluene	4.77		0.500	ug/L	5.00		95.3	70-130	6.46	25
4-Nitrotoluene	3.80		0.500	ug/L	5.00		76.0	70-130	3.35	25
4-Amino-2,6-dinitrotoluene	4.43		0.500	ug/L	5.00		88.6	70-130	4.38	25
3-Nitrotoluene	4.29		0.500	ug/L	5.00		85.9	70-130	11.5	25
2-Amino-4,6-dinitrotoluene	4.53		0.500	ug/L	5.00		90.6	70-130	1.61	25
Surrogate: 1,2-Dinitrobenzene		*L4*	*5.83*	*ug/L*	*10.0*		*58.3*	*70-130*		

Quality Control Data
(Continued)

Volatiles

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0119 - VOC										
Blank (BDI0119-BLK1)					Prepared & Analyzed: 9/6/2023					
Methyl ethyl ketone (MEK)	ND		2.50	ug/L						
m/p Xylenes (MCL for total)	ND		0.500	ug/L						
Isopropylbenzene	ND		0.500	ug/L						
Hexachlorobutadiene	ND		0.500	ug/L						
Ethylbenzene	ND		0.500	ug/L						
Dichlorodifluoromethane	ND		0.500	ug/L						
Dibromomethane	ND		0.500	ug/L						
Dibromochloromethane	ND		0.500	ug/L						
cis-1,3-Dichloropropene	ND		0.500	ug/L						
Methyl isobutyl ketone (MIBK)	ND		2.50	ug/L						
Chloromethane	ND		0.500	ug/L						
n-Propylbenzene	ND		0.500	ug/L						
Chloroform	ND		0.500	ug/L						
Chloroethane	ND		0.500	ug/L						
Chlorobenzene (Monochlorobenzene)	ND		0.500	ug/L						
Carbon Tetrachloride	ND		0.500	ug/L						
cis-1,2-Dichloroethylene	ND		0.500	ug/L						
Styrene	ND		0.500	ug/L						
Carbon disulfide	ND		0.500	ug/L						
Vinyl Chloride	ND		0.500	ug/L						
Trichloroflouromethane	ND		0.500	ug/L						
Trichloroethene	ND		0.500	ug/L						
trans-1,3-Dichloropropene	ND		0.500	ug/L						
Naphthalene	ND		0.500	ug/L						
tert-Butylbenzene	ND		0.500	ug/L						

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Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0119 - VOC (Continued)										
Blank (BDI0119-BLK1)					Prepared & Analyzed: 9/6/2023					
Methylene Chloride (Dichloromethane)	ND		2.50	ug/L						
sec-Butylbenzene	ND		0.500	ug/L						
p-isopropyltoluene	ND		0.500	ug/L						
o-Xylene (MCL for total)	ND		0.500	ug/L						
Toluene	ND		0.500	ug/L						
n-Butylbenzene	ND		0.500	ug/L						
methyl-t-butyl ether (MTBE)	ND		0.500	ug/L						
Tetrachloroethylene	ND		0.500	ug/L						
1,1-Dichloropropene	ND		0.500	ug/L						
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	ND		0.500	ug/L						
EDB (screening)	ND		0.500	ug/L						
DBCP (screening)	ND		0.500	ug/L						
1,2,4-Trimethylbenzene	ND		0.500	ug/L						
1,2,4-Trichlorobenzene	ND		0.500	ug/L						
1,2-Dichloroethane	ND		0.500	ug/L						
1,2,3-Trichlorobenzene	ND		0.500	ug/L						
1,1,2,2-Tetrachloroethane	ND		0.500	ug/L						
1,1-Dichloroethylene	ND		0.500	ug/L						
1,1-Dichloroethane	ND		0.500	ug/L						
1,1,2-Trichlorethane	ND		0.500	ug/L						
1,1,1-Trichloroethane	ND		0.500	ug/L						
trans-1,2 Dichloroethylene	ND		0.500	ug/L						
Bromomethane	ND		0.500	ug/L						
1,2,3-Trichloropropane	ND		0.500	ug/L						
Bromochloromethane	ND		0.500	ug/L						
1,1,1,2-Tetrachloroethane	ND		0.500	ug/L						
1,2-Dichloropropane	ND		0.500	ug/L						
Bromodichloromethane	ND		0.500	ug/L						
Bromobenzene	ND		0.500	ug/L						
Benzene	ND		0.500	ug/L						
Acrylonitrile	ND		0.500	ug/L						
Bromoform	ND		0.500	ug/L						
Acetone	ND		2.50	ug/L						
1,3-Dichloropropane	ND		0.500	ug/L						
2-hexanone	ND		2.50	ug/L						
o-Chlorotoluene	ND		0.500	ug/L						
2,2-Dichloropropane	ND		0.500	ug/L						
1,4-Dichlorobenzene (para-Dichlorobenzene)	ND		0.500	ug/L						
1,3,5-Trimethylbenzene	ND		0.500	ug/L						
m-Dichlorobenzene	ND		0.500	ug/L						
p-Chlorotoluene	ND		0.500	ug/L						
Surrogate: Toluene-d8			*19.5*	*ug/L*	*20.0*		*97.6*	*70-130*		
Surrogate: 4-Bromofluorobenzene			*19.1*	*ug/L*	*20.0*		*95.3*	*70-130*		
Surrogate: 1,2-Dichlorobenzene-d4			*20.0*	*ug/L*	*20.0*		*100*	*70-130*		

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Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0119 - VOC (Continued)										
LCS (BDI0119-BS1)					Prepared & Analyzed: 9/6/2023					
Ethylbenzene	10.7		0.500	ug/L	10.0		107	80-120		
Hexachlorobutadiene	11.1		0.500	ug/L	10.0		111	80-120		
Isopropylbenzene	10.8		0.500	ug/L	10.0		108	80-120		
Methyl ethyl ketone (MEK)	10.1		2.50	ug/L	10.0		101	55-154		
cis-1,3-Dichloropropene	8.98		0.500	ug/L	10.0		89.8	79-123		
Methyl isobutyl ketone (MIBK)	8.97		2.50	ug/L	10.0		89.7	70-136		
m/p Xylenes (MCL for total)	21.1		0.500	ug/L	20.0		105	80-120		
Dichlorodifluoromethane	10.2		0.500	ug/L	10.0		102	57-130		
Chlorobenzene (Monochlorobenzene)	10.4		0.500	ug/L	10.0		104	80-120		
Dibromochloromethane	9.73		0.500	ug/L	10.0		97.3	80-121		
cis-1,2-Dichloroethylene	9.95		0.500	ug/L	10.0		99.5	80-120		
Chloroform	10.8		0.500	ug/L	10.0		108	80-120		
methyl-t-butyl ether (MTBE)	8.82		0.500	ug/L	10.0		88.2	71-130		
Tetrachloroethylene	10.4		0.500	ug/L	10.0		104	80-120		
Dibromomethane	10.5		0.500	ug/L	10.0		105	80-120		
Toluene	10.6		0.500	ug/L	10.0		106	80-120		
Vinyl Chloride	11.2		0.500	ug/L	10.0		112	75-120		
Carbon Tetrachloride	10.7		0.500	ug/L	10.0		107	80-120		
Carbon disulfide	10.9		0.500	ug/L	10.0		109	80-120		
Trichloroflouromethane	11.2		0.500	ug/L	10.0		112	61-140		
Trichloroethene	10.1		0.500	ug/L	10.0		101	80-120		
trans-1,3-Dichloropropene	9.12		0.500	ug/L	10.0		91.2	69-130		
Styrene	11.5		0.500	ug/L	10.0		115	80-120		
Naphthalene	8.58		0.500	ug/L	10.0		85.8	66-133		
tert-Butylbenzene	11.1		0.500	ug/L	10.0		111	80-120		
sec-Butylbenzene	11.6		0.500	ug/L	10.0		116	80-120		
p-isopropyltoluene	11.1		0.500	ug/L	10.0		111	80-120		
o-Xylene (MCL for total)	10.5		0.500	ug/L	10.0		105	80-120		
n-Propylbenzene	11.5		0.500	ug/L	10.0		115	80-120		
n-Butylbenzene	11.0		0.500	ug/L	10.0		110	74-122		
trans-1,2 Dichloroethylene	10.7		0.500	ug/L	10.0		107	80-120		
1,1-Dichloroethylene	10.4		0.500	ug/L	10.0		104	70-129		
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	10.1		0.500	ug/L	10.0		101	80-120		
EDB (screening)	10.2		0.500	ug/L	10.0		102	70-130		
DBCP (screening)	8.74		0.500	ug/L	10.0		87.4	71-128		
1,2,4-Trimethylbenzene	11.7		0.500	ug/L	10.0		117	80-120		
1,2,4-Trichlorobenzene	8.97		0.500	ug/L	10.0		89.7	80-120		
1,2,3-Trichlorobenzene	9.78		0.500	ug/L	10.0		97.8	78-120		
1,1-Dichloropropene	11.3		0.500	ug/L	10.0		113	80-120		
1,1,2-Trichlorethane	10.5		0.500	ug/L	10.0		105	80-120		
1,1,2,2-Tetrachloroethane	10.6		0.500	ug/L	10.0		106	77-123		
1,1,1-Trichloroethane	10.8		0.500	ug/L	10.0		108	80-120		
1,1,1,2-Tetrachloroethane	10.3		0.500	ug/L	10.0		103	80-120		
Bromoform	9.45		0.500	ug/L	10.0		94.5	68-133		
Chloroethane	12.0		0.500	ug/L	10.0		120	78-120		
1,2,3-Trichloropropane	10.4		0.500	ug/L	10.0		104	80-120		
p-Chlorotoluene	11.7		0.500	ug/L	10.0		117	80-124		
Bromodichloromethane	9.92		0.500	ug/L	10.0		99.2	80-120		
1,1-Dichloroethane	10.5		0.500	ug/L	10.0		105	80-120		
1,2-Dichloroethane	10.3		0.500	ug/L	10.0		103	80-120		

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Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0119 - VOC (Continued)										
LCS (BDI0119-BS1)					Prepared & Analyzed: 9/6/2023					
Bromobenzene	10.3		0.500	ug/L	10.0		103	80-120		
Acrylonitrile	10.1		0.500	ug/L	10.0		101	73-131		
Bromochloromethane	10.5		0.500	ug/L	10.0		105	80-120		
m-Dichlorobenzene	10.1		0.500	ug/L	10.0		101	80-120		
o-Chlorotoluene	11.5		0.500	ug/L	10.0		115	80-120		
2,2-Dichloropropane	9.50		0.500	ug/L	10.0		95.0	80-120		
1,4-Dichlorobenzene (para-Dichlorobenzene)	10.1		0.500	ug/L	10.0		101	80-120		
1,3-Dichloropropane	10.3		0.500	ug/L	10.0		103	80-120		
2-hexanone	8.57		2.50	ug/L	10.0		85.7	65-140		
1,2-Dichloropropane	10.3		0.500	ug/L	10.0		103	80-120		
Benzene	10.6		0.500	ug/L	10.0		106	80-120		
1,3,5-Trimethylbenzene	11.7		0.500	ug/L	10.0		117	80-121		
Surrogate: Toluene-d8			*20.7*	*ug/L*	*20.0*		*103*	*70-130*		
Surrogate: 4-Bromofluorobenzene			*20.6*	*ug/L*	*20.0*		*103*	*70-130*		
Surrogate: 1,2-Dichlorobenzene-d4			*20.0*	*ug/L*	*20.0*		*100*	*70-130*		
Matrix Spike (BDI0119-MS1)	**Source: MDI0024-01**				Prepared & Analyzed: 9/6/2023					
Bromobenzene	11.0		0.500	ug/L	10.0	ND	110	70-130		
Benzene	11.7		0.500	ug/L	10.0	ND	117	70-130		
Acrylonitrile	11.5		0.500	ug/L	10.0	ND	115	65-137		
p-Chlorotoluene	12.2		0.500	ug/L	10.0	ND	122	70-130		
2-hexanone	10.6		2.50	ug/L	10.0	ND	106	43-175		
Bromochloromethane	11.7		0.500	ug/L	10.0	ND	117	70-130		
o-Chlorotoluene	12.1		0.500	ug/L	10.0	ND	121	70-130		
2,2-Dichloropropane	10.5		0.500	ug/L	10.0	ND	105	70-130		
Bromodichloromethane	10.9		0.500	ug/L	10.0	ND	109	70-130		
Bromoform	9.84		0.500	ug/L	10.0	ND	98.4	59-140		
Carbon disulfide	11.5		0.500	ug/L	10.0	ND	115	70-130		
Carbon Tetrachloride	11.3		0.500	ug/L	10.0	ND	113	70-130		
Chlorobenzene (Monochlorobenzene)	11.3		0.500	ug/L	10.0	ND	113	70-130		
Chloroform	11.8		0.500	ug/L	10.0	ND	118	70-130		
cis-1,2-Dichloroethylene	11.2		0.500	ug/L	10.0	ND	112	70-130		
1,4-Dichlorobenzene (para-Dichlorobenzene)	11.4		0.500	ug/L	10.0	ND	114	70-130		
1,1,2,2-Tetrachloroethane	11.7		0.500	ug/L	10.0	ND	117	67-136		
Chloroethane	13.7		0.500	ug/L	10.0	ND	137	68-138		
1,2,4-Trimethylbenzene	12.5		0.500	ug/L	10.0	ND	125	40-140		
Dibromomethane	11.7		0.500	ug/L	10.0	ND	117	70-130		
1,1,1,2-Tetrachloroethane	10.8		0.500	ug/L	10.0	ND	108	70-130		
1,1,1-Trichloroethane	11.5		0.500	ug/L	10.0	ND	115	70-130		
1,1,2-Trichlorethane	11.1		0.500	ug/L	10.0	ND	111	70-130		
1,1-Dichloroethylene	11.0		0.500	ug/L	10.0	ND	110	70-130		
1,1-Dichloropropene	12.1		0.500	ug/L	10.0	ND	121	70-130		
1,2,3-Trichlorobenzene	12.1		0.500	ug/L	10.0	ND	121	67-134		
1,1-Dichloroethane	11.4		0.500	ug/L	10.0	ND	114	70-130		
1,2,4-Trichlorobenzene	10.8		0.500	ug/L	10.0	ND	108	70-130		
1,3-Dichloropropane	10.9		0.500	ug/L	10.0	ND	109	70-130		
DBCP (screening)	10.5		0.500	ug/L	10.0	ND	105	55-146		
EDB (screening)	10.9		0.500	ug/L	10.0	ND	109	70-130		
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	11.5		0.500	ug/L	10.0	ND	115	70-130		
1,2-Dichloroethane	11.0		0.500	ug/L	10.0	ND	110	70-130		

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Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0119 - VOC (Continued)										
Matrix Spike (BDI0119-MS1)	**Source: MDI0024-01**				Prepared & Analyzed: 9/6/2023					
1,2-Dichloropropane	11.4		0.500	ug/L	10.0	ND	114	70-130		
1,3,5-Trimethylbenzene	12.5		0.500	ug/L	10.0	ND	125	40-140		
m-Dichlorobenzene	11.4		0.500	ug/L	10.0	ND	114	70-130		
1,2,3-Trichloropropane	11.7		0.500	ug/L	10.0	ND	117	69-137		
Dibromochloromethane	10.1		0.500	ug/L	10.0	ND	101	70-130		
Vinyl Chloride	11.8		0.500	ug/L	10.0	ND	118	70-130		
Trichloroflouromethane	11.4		0.500	ug/L	10.0	ND	114	50-154		
Trichloroethene	11.1		0.500	ug/L	10.0	ND	111	70-130		
trans-1,2 Dichloroethylene	11.5		0.500	ug/L	10.0	ND	115	70-130		
Toluene	11.8		0.500	ug/L	10.0	ND	118	70-130		
Tetrachloroethylene	11.0		0.500	ug/L	10.0	ND	110	70-130		
tert-Butylbenzene	11.7		0.500	ug/L	10.0	ND	117	70-130		
Styrene	12.2		0.500	ug/L	10.0	ND	122	30-130		
sec-Butylbenzene	12.2		0.500	ug/L	10.0	ND	122	70-130		
p-isopropyltoluene	11.8		0.500	ug/L	10.0	ND	118	70-130		
o-Xylene (MCL for total)	11.2		0.500	ug/L	10.0	ND	112	62-127		
Hexachlorobutadiene	12.7		0.500	ug/L	10.0	ND	127	70-130		
trans-1,3-Dichloropropene	9.62		0.500	ug/L	10.0	ND	96.2	61-131		
n-Propylbenzene	12.1		0.500	ug/L	10.0	ND	121	70-130		
Dichlorodifluoromethane	10.3		0.500	ug/L	10.0	ND	103	57-136		
Ethylbenzene	11.4		0.500	ug/L	10.0	ND	114	70-130		
cis-1,3-Dichloropropene	10.1		0.500	ug/L	10.0	ND	101	74-124		
Isopropylbenzene	11.4		0.500	ug/L	10.0	ND	114	70-130		
m/p Xylenes (MCL for total)	22.5		0.500	ug/L	20.0	ND	112	57-130		
Methyl ethyl ketone (MEK)	10.5		2.50	ug/L	10.0	ND	105	47-165		
Methyl isobutyl ketone (MIBK)	11.0		2.50	ug/L	10.0	ND	110	53-167		
methyl-t-butyl ether (MTBE)	9.77		0.500	ug/L	10.0	ND	97.7	57-138		
Naphthalene	10.8		0.500	ug/L	10.0	ND	108	56-147		
n-Butylbenzene	12.2		0.500	ug/L	10.0	ND	122	67-130		
Surrogate: 4-Bromofluorobenzene			*19.2*	*ug/L*	*20.0*		*96.2*	*70-130*		
Surrogate: Toluene-d8			*20.7*	*ug/L*	*20.0*		*103*	*70-130*		
Surrogate: 1,2-Dichlorobenzene-d4			*20.0*	*ug/L*	*20.0*		*100*	*70-130*		

Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0119 - VOC (Continued)										
Matrix Spike (BDI0119-MS2)	**Source: MDI0036-01**				Prepared & Analyzed: 9/6/2023					
methyl-t-butyl ether (MTBE)	10.4		0.500	ug/L	10.0	ND	104	57-138		
Ethylbenzene	12.2		0.500	ug/L	10.0	ND	122	70-130		
Methyl ethyl ketone (MEK)	10.9		2.50	ug/L	10.0	ND	109	47-165		
m/p Xylenes (MCL for total)	25.1		0.500	ug/L	20.0	ND	126	57-130		
Isopropylbenzene	12.7		0.500	ug/L	10.0	ND	127	70-130		
Hexachlorobutadiene	12.2		0.500	ug/L	10.0	ND	122	70-130		
Methyl isobutyl ketone (MIBK)	11.0		2.50	ug/L	10.0	ND	110	53-167		
Dichlorodifluoromethane	10.4		0.500	ug/L	10.0	ND	104	57-136		
Dibromomethane	11.9		0.500	ug/L	10.0	ND	119	70-130		
Dibromochloromethane	11.3		0.500	ug/L	10.0	ND	113	70-130		
cis-1,3-Dichloropropene	10.7		0.500	ug/L	10.0	ND	107	74-124		
Chloroform	11.8		0.500	ug/L	10.0	ND	118	70-130		
Carbon Tetrachloride	11.3		0.500	ug/L	10.0	ND	113	70-130		
Naphthalene	11.0		0.500	ug/L	10.0	ND	110	56-147		
Trichloroflouromethane	11.8		0.500	ug/L	10.0	ND	118	50-154		
Chlorobenzene (Monochlorobenzene)	11.3		0.500	ug/L	10.0	ND	113	70-130		
Tetrachloroethylene	11.6		0.500	ug/L	10.0	ND	116	70-130		
Vinyl Chloride	11.8		0.500	ug/L	10.0	ND	118	70-130		
Chloroethane	13.4		0.500	ug/L	10.0	ND	134	68-138		
Trichloroethene	11.4		0.500	ug/L	10.0	ND	114	70-130		
Carbon disulfide	11.5		0.500	ug/L	10.0	ND	115	70-130		
trans-1,2 Dichloroethylene	11.6		0.500	ug/L	10.0	ND	116	70-130		
trans-1,3-Dichloropropene	10.8		0.500	ug/L	10.0	ND	108	61-131		
Toluene	11.8		0.500	ug/L	10.0	ND	118	70-130		
n-Butylbenzene	12.3		0.500	ug/L	10.0	ND	123	67-130		
tert-Butylbenzene	12.9		0.500	ug/L	10.0	ND	129	70-130		
Styrene	13.4	M1	0.500	ug/L	10.0	ND	134	30-130		
sec-Butylbenzene	13.2	M1	0.500	ug/L	10.0	ND	132	70-130		
p-isopropyltoluene	12.5		0.500	ug/L	10.0	ND	125	70-130		
o-Xylene (MCL for total)	12.6		0.500	ug/L	10.0	ND	126	62-127		
n-Propylbenzene	13.0		0.500	ug/L	10.0	ND	130	70-130		
1,1-Dichloroethylene	11.3		0.500	ug/L	10.0	ND	113	70-130		
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	11.8		0.500	ug/L	10.0	ND	118	70-130		
EDB (screening)	12.1		0.500	ug/L	10.0	ND	121	70-130		
DBCP (screening)	10.5		0.500	ug/L	10.0	ND	105	55-146		
1,1,1-Trichloroethane	11.5		0.500	ug/L	10.0	ND	115	70-130		
1,2,4-Trichlorobenzene	11.4		0.500	ug/L	10.0	ND	114	70-130		
1,2-Dichloroethane	11.2		0.500	ug/L	10.0	ND	112	70-130		
1,1-Dichloropropene	12.4		0.500	ug/L	10.0	ND	124	70-130		
1,2,4-Trimethylbenzene	13.4		0.500	ug/L	10.0	ND	134	40-140		
1,1-Dichloroethane	11.4		0.500	ug/L	10.0	ND	114	70-130		
1,1,2-Trichlorethane	12.0		0.500	ug/L	10.0	ND	120	70-130		
1,1,2,2-Tetrachloroethane	12.6		0.500	ug/L	10.0	ND	126	67-136		
Bromoform	10.7		0.500	ug/L	10.0	ND	107	59-140		
cis-1,2-Dichloroethylene	11.3		0.500	ug/L	10.0	ND	113	70-130		
1,1,1,2-Tetrachloroethane	11.9		0.500	ug/L	10.0	ND	119	70-130		
1,2,3-Trichlorobenzene	12.3		0.500	ug/L	10.0	ND	123	67-134		
p-Chlorotoluene	13.2	M1	0.500	ug/L	10.0	ND	132	70-130		
Bromochloromethane	11.8		0.500	ug/L	10.0	ND	118	70-130		
1,2,3-Trichloropropane	12.0		0.500	ug/L	10.0	ND	120	69-137		

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Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0119 - VOC (Continued)										
Matrix Spike (BDI0119-MS2)	**Source: MDI0036-01**				Prepared & Analyzed: 9/6/2023					
1,2-Dichloropropane	11.6		0.500	ug/L	10.0	ND	116	70-130		
Bromodichloromethane	11.2		0.500	ug/L	10.0	ND	112	70-130		
Acrylonitrile	11.0		0.500	ug/L	10.0	ND	110	65-137		
Bromobenzene	12.1		0.500	ug/L	10.0	ND	121	70-130		
2-hexanone	10.9		2.50	ug/L	10.0	ND	109	43-175		
o-Chlorotoluene	13.0		0.500	ug/L	10.0	ND	130	70-130		
2,2-Dichloropropane	10.5		0.500	ug/L	10.0	ND	105	70-130		
1,4-Dichlorobenzene (para-Dichlorobenzene)	11.6		0.500	ug/L	10.0	ND	116	70-130		
1,3-Dichloropropane	12.3		0.500	ug/L	10.0	ND	123	70-130		
m-Dichlorobenzene	11.6		0.500	ug/L	10.0	ND	116	70-130		
1,3,5-Trimethylbenzene	13.4		0.500	ug/L	10.0	ND	134	40-140		
Benzene	11.8		0.500	ug/L	10.0	ND	118	70-130		
Surrogate: Toluene-d8			*20.4*	*ug/L*	*20.0*		*102*	*70-130*		
Surrogate: 4-Bromofluorobenzene			*20.4*	*ug/L*	*20.0*		*102*	*70-130*		
Surrogate: 1,2-Dichlorobenzene-d4			*20.0*	*ug/L*	*20.0*		*100*	*70-130*		
Matrix Spike Dup (BDI0119-MSD1)	**Source: MDI0024-01**				Prepared & Analyzed: 9/6/2023					
Methyl ethyl ketone (MEK)	11.4		2.50	ug/L	10.0	ND	114	47-165	8.20	20
Ethylbenzene	13.3	M1	0.500	ug/L	10.0	ND	133	70-130	15.6	20
m/p Xylenes (MCL for total)	27.0	M1	0.500	ug/L	20.0	ND	135	57-130	18.4	20
Vinyl Chloride	12.4		0.500	ug/L	10.0	ND	124	70-130	4.30	20
Isopropylbenzene	13.7	M1	0.500	ug/L	10.0	ND	137	70-130	18.7	20
Hexachlorobutadiene	13.2	M1	0.500	ug/L	10.0	ND	132	70-130	3.95	20
Dichlorodifluoromethane	10.6		0.500	ug/L	10.0	ND	106	57-136	2.50	20
Dibromomethane	11.8		0.500	ug/L	10.0	ND	118	70-130	1.45	20
Dibromochloromethane	11.7		0.500	ug/L	10.0	ND	117	70-130	14.6	20
cis-1,3-Dichloropropene	10.8		0.500	ug/L	10.0	ND	108	74-124	7.27	20
cis-1,2-Dichloroethylene	11.7		0.500	ug/L	10.0	ND	117	70-130	4.63	20
Chlorobenzene (Monochlorobenzene)	13.0		0.500	ug/L	10.0	ND	130	70-130	13.9	20
Chloroethane	14.0	M1	0.500	ug/L	10.0	ND	140	68-138	2.17	20
Methyl isobutyl ketone (MIBK)	11.6		2.50	ug/L	10.0	ND	116	53-167	5.57	20
Chloroform	12.0		0.500	ug/L	10.0	ND	120	70-130	1.76	20
tert-Butylbenzene	13.8	M1	0.500	ug/L	10.0	ND	138	70-130	16.4	20
m-Dichlorobenzene	11.7		0.500	ug/L	10.0	ND	117	70-130	3.21	20
Carbon Tetrachloride	11.6		0.500	ug/L	10.0	ND	116	70-130	2.62	20
Trichloroflouromethane	11.9		0.500	ug/L	10.0	ND	119	50-154	4.55	20
trans-1,3-Dichloropropene	11.4		0.500	ug/L	10.0	ND	114	61-131	17.3	20
trans-1,2 Dichloroethylene	12.2		0.500	ug/L	10.0	ND	122	70-130	5.73	20
Trichloroethene	11.8		0.500	ug/L	10.0	ND	118	70-130	6.63	20
Tetrachloroethylene	12.5		0.500	ug/L	10.0	ND	125	70-130	13.4	20
methyl-t-butyl ether (MTBE)	10.3		0.500	ug/L	10.0	ND	103	57-138	5.28	20
Styrene	14.2	M1	0.500	ug/L	10.0	ND	142	30-130	14.9	20
sec-Butylbenzene	14.4	M1	0.500	ug/L	10.0	ND	144	70-130	16.0	20
p-isopropyltoluene	13.7	M1	0.500	ug/L	10.0	ND	137	70-130	14.9	20
o-Xylene (MCL for total)	13.5	M1	0.500	ug/L	10.0	ND	135	62-127	18.3	20
n-Propylbenzene	14.1	M1	0.500	ug/L	10.0	ND	141	70-130	15.1	20
n-Butylbenzene	12.8		0.500	ug/L	10.0	ND	128	67-130	4.96	20
Naphthalene	11.7		0.500	ug/L	10.0	ND	117	56-147	7.89	20
Toluene	12.3		0.500	ug/L	10.0	ND	123	70-130	3.57	20
1,1-Dichloroethylene	11.6		0.500	ug/L	10.0	ND	116	70-130	5.66	20

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Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0119 - VOC (Continued)										
Matrix Spike Dup (BDI0119-MSD1)	**Source: MDI0024-01**				Prepared & Analyzed: 9/6/2023					
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	11.8		0.500	ug/L	10.0	ND	118	70-130	2.32	20
EDB (screening)	12.7		0.500	ug/L	10.0	ND	127	70-130	15.5	20
DBCP (screening)	11.4		0.500	ug/L	10.0	ND	114	55-146	8.41	20
1,2,4-Trimethylbenzene	14.5	M1	0.500	ug/L	10.0	ND	145	40-140	14.5	20
1,2,4-Trichlorobenzene	11.6		0.500	ug/L	10.0	ND	116	70-130	7.04	20
Carbon disulfide	12.1		0.500	ug/L	10.0	ND	121	70-130	4.67	20
1,2,3-Trichloropropane	13.0		0.500	ug/L	10.0	ND	130	69-137	10.9	20
1,1-Dichloroethane	11.8		0.500	ug/L	10.0	ND	118	70-130	3.71	20
1,1,2-Trichlorethane	12.6		0.500	ug/L	10.0	ND	126	70-130	12.8	20
1,1,2,2-Tetrachloroethane	13.2		0.500	ug/L	10.0	ND	132	67-136	12.3	20
1,1,1-Trichloroethane	11.9		0.500	ug/L	10.0	ND	119	70-130	3.50	20
1,1,1,2-Tetrachloroethane	12.3		0.500	ug/L	10.0	ND	123	70-130	13.8	20
1,4-Dichlorobenzene (para-Dichlorobenzene)	11.7		0.500	ug/L	10.0	ND	117	70-130	3.21	20
1,2,3-Trichlorobenzene	12.8		0.500	ug/L	10.0	ND	128	67-134	5.46	20
Acrylonitrile	12.0		0.500	ug/L	10.0	ND	120	65-137	3.75	20
1,1-Dichloropropene	12.7		0.500	ug/L	10.0	ND	127	70-130	4.83	20
Bromoform	11.6		0.500	ug/L	10.0	ND	116	59-140	16.1	20
1,2-Dichloroethane	11.4		0.500	ug/L	10.0	ND	114	70-130	2.86	20
Bromochloromethane	11.9		0.500	ug/L	10.0	ND	119	70-130	2.12	20
Benzene	12.1		0.500	ug/L	10.0	ND	121	70-130	3.11	20
Bromodichloromethane	11.4		0.500	ug/L	10.0	ND	114	70-130	4.13	20
p-Chlorotoluene	14.2	M1	0.500	ug/L	10.0	ND	142	70-130	14.8	20
2-hexanone	12.7		2.50	ug/L	10.0	ND	127	43-175	18.1	20
o-Chlorotoluene	14.1	M1	0.500	ug/L	10.0	ND	141	70-130	15.1	20
2,2-Dichloropropane	11.0		0.500	ug/L	10.0	ND	110	70-130	4.58	20
1,3-Dichloropropane	12.5		0.500	ug/L	10.0	ND	125	70-130	14.1	20
1,3,5-Trimethylbenzene	14.5	M1	0.500	ug/L	10.0	ND	145	40-140	14.5	20
1,2-Dichloropropane	12.0		0.500	ug/L	10.0	ND	120	70-130	4.79	20
Bromobenzene	12.7		0.500	ug/L	10.0	ND	127	70-130	15.1	20
Surrogate: Toluene-d8			*20.4*	*ug/L*	*20.0*		*102*	*70-130*		
Surrogate: 4-Bromofluorobenzene			*21.3*	*ug/L*	*20.0*		*106*	*70-130*		
Surrogate: 1,2-Dichlorobenzene-d4			*20.0*	*ug/L*	*20.0*		*100*	*70-130*		

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Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0119 - VOC (Continued)										
Matrix Spike Dup (BDI0119-MSD2)	**Source: MDI0036-01**				Prepared & Analyzed: 9/6/2023					
Methyl isobutyl ketone (MIBK)	11.6		2.50	ug/L	10.0	ND	116	53-167	5.06	20
Ethylbenzene	12.2		0.500	ug/L	10.0	ND	122	70-130	0.245	20
Methyl ethyl ketone (MEK)	11.6		2.50	ug/L	10.0	ND	116	47-165	6.21	20
m/p Xylenes (MCL for total)	25.4		0.500	ug/L	20.0	ND	127	57-130	0.951	20
Isopropylbenzene	13.0		0.500	ug/L	10.0	ND	130	70-130	2.34	20
Hexachlorobutadiene	12.6		0.500	ug/L	10.0	ND	126	70-130	3.38	20
Dichlorodifluoromethane	10.8		0.500	ug/L	10.0	ND	108	57-136	3.98	20
Dibromomethane	12.2		0.500	ug/L	10.0	ND	122	70-130	2.58	20
Dibromochloromethane	11.1		0.500	ug/L	10.0	ND	111	70-130	1.70	20
cis-1,3-Dichloropropene	11.2		0.500	ug/L	10.0	ND	112	74-124	4.55	20
cis-1,2-Dichloroethylene	12.0		0.500	ug/L	10.0	ND	120	70-130	6.08	20
Chloroform	12.1		0.500	ug/L	10.0	ND	121	70-130	2.52	20
Chlorobenzene (Monochlorobenzene)	12.1		0.500	ug/L	10.0	ND	121	70-130	6.60	20
Trichloroflouromethane	12.2		0.500	ug/L	10.0	ND	122	50-154	2.92	20
Chloroethane	13.9	M1	0.500	ug/L	10.0	ND	139	68-138	3.66	20
Styrene	13.2	M1	0.500	ug/L	10.0	ND	132	30-130	0.977	20
1,2-Dichloroethane	11.3		0.500	ug/L	10.0	ND	113	70-130	0.802	20
Trichloroethene	11.9		0.500	ug/L	10.0	ND	119	70-130	4.98	20
Carbon Tetrachloride	11.8		0.500	ug/L	10.0	ND	118	70-130	4.43	20
trans-1,2 Dichloroethylene	12.1		0.500	ug/L	10.0	ND	121	70-130	4.38	20
Toluene	12.3		0.500	ug/L	10.0	ND	123	70-130	3.82	20
trans-1,3-Dichloropropene	10.9		0.500	ug/L	10.0	ND	109	61-131	0.184	20
tert-Butylbenzene	13.0		0.500	ug/L	10.0	ND	130	70-130	0.851	20
methyl-t-butyl ether (MTBE)	10.7		0.500	ug/L	10.0	ND	107	57-138	2.66	20
sec-Butylbenzene	13.3	M1	0.500	ug/L	10.0	ND	133	70-130	1.21	20
p-isopropyltoluene	12.5		0.500	ug/L	10.0	ND	125	70-130	0.160	20
o-Xylene (MCL for total)	12.7		0.500	ug/L	10.0	ND	127	62-127	1.11	20
n-Propylbenzene	12.9		0.500	ug/L	10.0	ND	129	70-130	0.852	20
n-Butylbenzene	12.6		0.500	ug/L	10.0	ND	126	67-130	2.89	20
Naphthalene	11.8		0.500	ug/L	10.0	ND	118	56-147	7.10	20
Tetrachloroethylene	11.5		0.500	ug/L	10.0	ND	115	70-130	0.950	20
1,1-Dichloroethylene	11.9		0.500	ug/L	10.0	ND	119	70-130	5.11	20
EDB (screening)	12.0		0.500	ug/L	10.0	ND	120	70-130	0.745	20
DBCP (screening)	11.0		0.500	ug/L	10.0	ND	110	55-146	4.65	20
1,2,4-Trimethylbenzene	13.5		0.500	ug/L	10.0	ND	135	40-140	0.445	20
1,2,4-Trichlorobenzene	11.8		0.500	ug/L	10.0	ND	118	70-130	3.97	20
1,2,3-Trichloropropane	11.8		0.500	ug/L	10.0	ND	118	69-137	2.27	20
1,3,5-Trimethylbenzene	13.5		0.500	ug/L	10.0	ND	135	40-140	0.445	20
1,1-Dichloropropene	12.8		0.500	ug/L	10.0	ND	128	70-130	3.73	20
1,2-Dichloropropane	12.2		0.500	ug/L	10.0	ND	122	70-130	4.63	20
1,1-Dichloroethane	11.9		0.500	ug/L	10.0	ND	119	70-130	4.22	20
1,1,2-Trichlorethane	11.7		0.500	ug/L	10.0	ND	117	70-130	2.53	20
1,1,2,2-Tetrachloroethane	12.1		0.500	ug/L	10.0	ND	121	67-136	3.65	20
1,1,1-Trichloroethane	11.9		0.500	ug/L	10.0	ND	119	70-130	3.76	20
1,1,1,2-Tetrachloroethane	11.6		0.500	ug/L	10.0	ND	116	70-130	1.79	20
Vinyl Chloride	12.3		0.500	ug/L	10.0	ND	123	70-130	4.49	20
1,2,3-Trichlorobenzene	12.8		0.500	ug/L	10.0	ND	128	67-134	3.83	20
2-hexanone	11.1		2.50	ug/L	10.0	ND	111	43-175	2.18	20
Bromoform	10.9		0.500	ug/L	10.0	ND	109	59-140	1.20	20
Bromodichloromethane	11.4		0.500	ug/L	10.0	ND	114	70-130	1.86	20

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Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0119 - VOC (Continued)										
Matrix Spike Dup (BDI0119-MSD2)	**Source: MDI0036-01**				Prepared & Analyzed: 9/6/2023					
Bromochloromethane	12.0		0.500	ug/L	10.0	ND	120	70-130	1.43	20
Bromobenzene	12.0		0.500	ug/L	10.0	ND	120	70-130	1.16	20
Benzene	12.1		0.500	ug/L	10.0	ND	121	70-130	2.52	20
Acrylonitrile	11.1		0.500	ug/L	10.0	ND	111	65-137	0.362	20
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	11.8		0.500	ug/L	10.0	ND	118	70-130	0.508	20
o-Chlorotoluene	12.9		0.500	ug/L	10.0	ND	129	70-130	0.852	20
2,2-Dichloropropane	11.1		0.500	ug/L	10.0	ND	111	70-130	5.09	20
1,4-Dichlorobenzene (para-Dichlorobenzene)	11.9		0.500	ug/L	10.0	ND	119	70-130	2.38	20
1,3-Dichloropropane	11.9		0.500	ug/L	10.0	ND	119	70-130	3.06	20
m-Dichlorobenzene	11.9		0.500	ug/L	10.0	ND	119	70-130	2.38	20
Carbon disulfide	12.0		0.500	ug/L	10.0	ND	120	70-130	4.50	20
p-Chlorotoluene	13.0		0.500	ug/L	10.0	ND	130	70-130	1.91	20
Surrogate: Toluene-d8			*20.4*	*ug/L*	*20.0*		*102*	*70-130*		
Surrogate: 4-Bromofluorobenzene			*19.8*	*ug/L*	*20.0*		*98.8*	*70-130*		
Surrogate: 1,2-Dichlorobenzene-d4			*20.0*	*ug/L*	*20.0*		*100*	*70-130*		

ANATEK LABS

Chain of Custody Record

Anatek Labs
1282 Alturas Drive, Moscow ID
504 E Sprague Ste D, Spokane WA

Due: 09/13/23

Turn Arour

Company Name: PBS Engineering and Environmental	Project Manager: Scott Braunsten
Address: 4412 S Corbett Ave	Project Name & #: Camp Bonneville, 76151.011
City: Portland State: OR Zip: 97239	Purchase Order #: 012 phase 001
Phone: 503-248-1939	Sampler Name & Phone: S. Eckes + R. Martin
Email Address(es): scott.braunsten@pbsusa.com, samantha.eckes@pbsusa.com	

Please refer to our normal turn around times at www.anateklabs.com/pricing-lists

✓ Normal __Phone
__Next Day* __Email
__2nd Day*
__Other*_____

*All rush order requests must have prior approval

List Analyses Requested

Lab ID	Sample Identification	Sampling Date/Time	Matrix	Preservative:	# of Containers	Sample Volume	VOCs by 8260B	Explosives by 8330	Perchlorate by 6850	RDX & 330
	03Q23LC155W	8/28/23 1020	H2O		3				✓	✓
	03Q23Bonnerville	↓ 1550	↓		6		✓	✓	✓	

Note Special Instructions/Comments

Please send login confirmation

Please provide EQuIS EDD + WA EIM

Run Data Package III

Inspection Checklist

Received Intact?	Y	N
Labels & Chains Agree?	Y	N
Containers Sealed?	Y	N
No VOC Head Space?	Y	N
Cooler?	Y	N
Ice/Ice Packs Present?	Y	N

Temperature (°C):_____
Number of Containers:_____
Shipped Via:_____
Preservative:_____
Date & Time:_____
Inspected By:_____

	Printed Name	Signature	Company	Date	Time
Relinquished by	S. ECKES		PBS	8/28/23	1715
Received by	TB			8/29/23	11:54
Relinquished by					
Received by					
Relinquished by					
Received by					

Samples submitted to Anatek Labs may be subcontacted to other accredited labs if necessary. This message serves as notice of this possibility. Subcontracted analyses will be clearly noted on the analytical report.

Anatek Labs, Inc.

Sample Receipt and Preservation Form

Client Name: PBC PBS SM 8.29.23

TAT: (Normal) RUSH: _____ days

Samples Received From: (FedEx) UPS USPS Client Courier Other: _____

Custody Seal on Cooler/Box: Yes (No) Custody Seals Intact: Yes No (N/A)

Number of Coolers/Boxes: 2 Type of Ice: (Wet Ice) Ice Packs Dry Ice None

Packing Material: (Bubble Wrap) Bags Foam/Peanuts Paper None Other: _____

Cooler Temp As Read (°C): 4.4 cc Cooler Temp Corrected (°C): — Thermometer Used: IR-5

Samples Received Intact?	(Yes)	No	N/A
Chain of Custody Present/Complete?	(Yes)	No	N/A
Labels and Chains Agree?	(Yes)	(No)	N/A
Samples Received Within Hold Time?	(Yes)	No	N/A
Correct Containers Received?	(Yes)	No	N/A
Anatek Bottles Used?	(Yes)	(No)	Unknown
Total Number of Sample Bottles Received:	8 9		
Samples Properly Preserved?	(Yes)	No	N/A
If No, record preservation and pH-after details			
VOC Vials Free of Headspace (<6mm)?	(Yes)	No	N/A
VOC Trip Blanks Present?	(Yes)	No	N/A

Comments:

03Q23LC035W Perchlorate
RDX x2

Initial pH:	pH Paper ID:
<2 or	

Record preservatives (and lot numbers, if known) for containers below:

P125 Perchlorate x 2
GB250 SA RDX x2
G44 HCl 8260 x3

Notes, comments, etc. (also use this space if contacting the client - record names and date/time)

Email about missing chain for bottles 8.29.23 SM
Using 76151.012 for sampling project #, Phase 0001

Received/Inspected By: TB Date/Time: 8/29/23 11:48

Form F19.01 - Eff 1 Dec 2022

Justin Doty

From: Scott Braunsten <Scott.Braunsten@pbsusa.com>
Sent: Tuesday, August 29, 2023 11:51 AM
To: Justin Doty
Cc: Samantha Eckes
Subject: New Camp Bonneville project number

Hi Justin,

Sam asked me to email you to make sure you had our new project number for the Camp Bonneville samples coming in this week. We are now using 76151.012 for the sampling events, third quarter will be 76151.012, Phase 0001.

Sincerely,

Scott Braunsten, RG, LG (he/him)
Senior Geologist

PBS | *Great People. Great Results.*
PBS Engineering and Environmental Inc.
4412 S Corbett Ave., Portland, OR 97239
main: 503.248.1939 | direct: 503.417.7737 | mobile: 503.939.7910
scott.braunsten@pbsusa.com
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Client:	PBS Engineering - Portland	Work Order:	MDI0021
Address:	4412 SW Corbett Ave	Project:	Camp Bonneville, 76151.012
	Portland, OR 97239	Reported:	10/20/2023 13:30
Attn:	Scott Braunsten		

Analytical Results Report

Sample Location:	03Q23RangeRoadW		
Lab/Sample Number:	MDI0021-01	Collect Date:	08/29/23 10:00
Date Received:	08/30/23 12:24	Collected By:	
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Perchlorate	ND	ug/L	0.500	9/15/23 17:51	GPB	EPA 6850	
Semivolatiles							
1,3,5-TNB	ND	ug/L	0.500	9/15/23 4:07	MER	EPA 8330B	
1,3-Dinitrobenzene	ND	ug/L	0.500	9/15/23 4:07	MER	EPA 8330B	
2,4,6-Trinitrotoluene	ND	ug/L	0.100	9/15/23 4:07	MER	EPA 8330B	
2,4-Dinitrotoluene	ND	ug/L	0.100	9/15/23 4:07	MER	EPA 8330B	
2,6-DNT	ND	ug/L	0.500	9/15/23 4:07	MER	EPA 8330B	
2-Amino-4,6-dinitrotoluene	ND	ug/L	0.500	9/15/23 4:07	MER	EPA 8330B	
2-Nitrotoluene	ND	ug/L	0.500	9/15/23 4:07	MER	EPA 8330B	
3-Nitrotoluene	ND	ug/L	0.500	9/15/23 4:07	MER	EPA 8330B	
4-Amino-2,6-dinitrotoluene	ND	ug/L	0.500	9/15/23 4:07	MER	EPA 8330B	
4-Nitrotoluene	ND	ug/L	0.500	9/15/23 4:07	MER	EPA 8330B	
HMX	ND	ug/L	0.100	9/15/23 4:07	MER	EPA 8330B	
NB	ND	ug/L	0.500	9/15/23 4:07	MER	EPA 8330B	
RDX	ND	ug/L	0.100	9/15/23 4:07	MER	EPA 8330B	
Tetryl	ND	ug/L	0.500	9/15/23 4:07	MER	EPA 8330B	
Surrogate: 1,2-Dinitrobenzene	*73.2%*		*70-130*	*9/15/23 4:07*	*MER*	*EPA 8330B*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	9/5/23 15:36	BKP	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	9/5/23 15:36	BKP	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	9/5/23 15:36	BKP	EPA 8260D	
1,1,2-Trichloroethane	ND	ug/L	0.500	9/5/23 15:36	BKP	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	9/5/23 15:36	BKP	EPA 8260D	
1,1-Dichloroethene	ND	ug/L	0.500	9/5/23 15:36	BKP	EPA 8260D	
1,1-dichloropropene	ND	ug/L	0.500	9/5/23 15:36	BKP	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	9/5/23 15:36	BKP	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	9/5/23 15:36	BKP	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	9/5/23 15:36	BKP	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	9/5/23 15:36	BKP	EPA 8260D	
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.500	9/5/23 15:36	BKP	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	ug/L	0.500	9/5/23 15:36	BKP	EPA 8260D	
1,2-Dichlorobenzene	ND	ug/L	0.500	9/5/23 15:36	BKP	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	9/5/23 15:36	BKP	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	9/5/23 15:36	BKP	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	9/5/23 15:36	BKP	EPA 8260D	
1,3-Dichlorobenzene	ND	ug/L	0.500	9/5/23 15:36	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: 03Q23RangeRoadW
Lab/Sample Number: MDI0021-01 Collect Date: 08/29/23 10:00
Date Received: 08/30/23 12:24 Collected By:
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
1,3-Dichloropropane	ND	ug/L	0.500	9/5/23 15:36	BKP	EPA 8260D	
1,4-Dichlorobenzene	ND	ug/L	0.500	9/5/23 15:36	BKP	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	9/5/23 15:36	BKP	EPA 8260D	
2-Chlorotoluene	ND	ug/L	0.500	9/5/23 15:36	BKP	EPA 8260D	
2-hexanone	ND	ug/L	2.50	9/5/23 15:36	BKP	EPA 8260D	
4-Chlorotoluene	ND	ug/L	0.500	9/5/23 15:36	BKP	EPA 8260D	
Acetone	ND	ug/L	2.50	9/5/23 15:36	BKP	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	9/5/23 15:36	BKP	EPA 8260D	
Benzene	ND	ug/L	0.500	9/5/23 15:36	BKP	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	9/5/23 15:36	BKP	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	9/5/23 15:36	BKP	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	9/5/23 15:36	BKP	EPA 8260D	
Bromoform	ND	ug/L	0.500	9/5/23 15:36	BKP	EPA 8260D	
Bromomethane	ND	ug/L	0.500	9/5/23 15:36	BKP	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	9/5/23 15:36	BKP	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	9/5/23 15:36	BKP	EPA 8260D	
Chlorobenzene	ND	ug/L	0.500	9/5/23 15:36	BKP	EPA 8260D	
Chloroethane	ND	ug/L	0.500	9/5/23 15:36	BKP	EPA 8260D	
Chloroform	ND	ug/L	0.500	9/5/23 15:36	BKP	EPA 8260D	
Chloromethane	ND	ug/L	0.500	9/5/23 15:36	BKP	EPA 8260D	
cis-1,2-dichloroethene	ND	ug/L	0.500	9/5/23 15:36	BKP	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	9/5/23 15:36	BKP	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	9/5/23 15:36	BKP	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	9/5/23 15:36	BKP	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	9/5/23 15:36	BKP	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	9/5/23 15:36	BKP	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	9/5/23 15:36	BKP	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	9/5/23 15:36	BKP	EPA 8260D	
m+p-Xylene	ND	ug/L	0.500	9/5/23 15:36	BKP	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	9/5/23 15:36	BKP	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	9/5/23 15:36	BKP	EPA 8260D	
Methylene chloride	ND	ug/L	2.50	9/5/23 15:36	BKP	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	9/5/23 15:36	BKP	EPA 8260D	
Naphthalene	ND	ug/L	0.500	9/5/23 15:36	BKP	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	9/5/23 15:36	BKP	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	9/5/23 15:36	BKP	EPA 8260D	
o-Xylene	ND	ug/L	0.500	9/5/23 15:36	BKP	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	9/5/23 15:36	BKP	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	9/5/23 15:36	BKP	EPA 8260D	
Styrene	ND	ug/L	0.500	9/5/23 15:36	BKP	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	9/5/23 15:36	BKP	EPA 8260D	
Tetrachloroethene	ND	ug/L	0.500	9/5/23 15:36	BKP	EPA 8260D	
Toluene	ND	ug/L	0.500	9/5/23 15:36	BKP	EPA 8260D	
trans-1,2-Dichloroethene	ND	ug/L	0.500	9/5/23 15:36	BKP	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	9/5/23 15:36	BKP	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	9/5/23 15:36	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location:	03Q23RangeRoadW		
Lab/Sample Number:	MDI0021-01	Collect Date:	08/29/23 10:00
Date Received:	08/30/23 12:24	Collected By:	
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Trichlorofluoromethane	ND	ug/L	0.500	9/5/23 15:36	BKP	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	9/5/23 15:36	BKP	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*100%*		*70-130*	*9/5/23 15:36*	*BKP*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*95.6%*		*70-130*	*9/5/23 15:36*	*BKP*	*EPA 8260D*	
Surrogate: Toluene-d8	*96.8%*		*70-130*	*9/5/23 15:36*	*BKP*	*EPA 8260D*	

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Analytical Results Report

(Continued)

Sample Location: 03Q23LCMW09SW
Lab/Sample Number: MDI0021-02 Collect Date: 08/29/23 10:50
Date Received: 08/30/23 12:24 Collected By:
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Perchlorate	ND	ug/L	0.500	8/31/23 19:36	GPB	EPA 6850	
Semivolatiles							
1,3,5-TNB	ND	ug/L	0.500	9/15/23 6:00	MER	EPA 8330B	
1,3-Dinitrobenzene	ND	ug/L	0.500	9/15/23 6:00	MER	EPA 8330B	
2,4,6-Trinitrotoluene	ND	ug/L	0.100	9/15/23 6:00	MER	EPA 8330B	
2,4-Dinitrotoluene	ND	ug/L	0.100	9/15/23 6:00	MER	EPA 8330B	
2,6-DNT	ND	ug/L	0.500	9/15/23 6:00	MER	EPA 8330B	
2-Amino-4,6-dinitrotoluene	ND	ug/L	0.500	9/15/23 6:00	MER	EPA 8330B	
2-Nitrotoluene	ND	ug/L	0.500	9/15/23 6:00	MER	EPA 8330B	
3-Nitrotoluene	ND	ug/L	0.500	9/15/23 6:00	MER	EPA 8330B	
4-Amino-2,6-dinitrotoluene	ND	ug/L	0.500	9/15/23 6:00	MER	EPA 8330B	
4-Nitrotoluene	ND	ug/L	0.500	9/15/23 6:00	MER	EPA 8330B	
HMX	ND	ug/L	0.100	9/15/23 6:00	MER	EPA 8330B	
NB	ND	ug/L	0.500	9/15/23 6:00	MER	EPA 8330B	
RDX	ND	ug/L	0.100	9/15/23 6:00	MER	EPA 8330B	
Tetryl	ND	ug/L	0.500	9/15/23 6:00	MER	EPA 8330B	
Surrogate: 1,2-Dinitrobenzene	*75.1%*		*70-130*	*9/15/23 6:00*	*MER*	*EPA 8330B*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	9/5/23 16:08	BKP	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	9/5/23 16:08	BKP	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	9/5/23 16:08	BKP	EPA 8260D	
1,1,2-Trichloroethane	ND	ug/L	0.500	9/5/23 16:08	BKP	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	9/5/23 16:08	BKP	EPA 8260D	
1,1-Dichloroethene	ND	ug/L	0.500	9/5/23 16:08	BKP	EPA 8260D	
1,1-dichloropropene	ND	ug/L	0.500	9/5/23 16:08	BKP	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	9/5/23 16:08	BKP	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	9/5/23 16:08	BKP	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	9/5/23 16:08	BKP	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	9/5/23 16:08	BKP	EPA 8260D	
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.500	9/5/23 16:08	BKP	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	ug/L	0.500	9/5/23 16:08	BKP	EPA 8260D	
1,2-Dichlorobenzene	ND	ug/L	0.500	9/5/23 16:08	BKP	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	9/5/23 16:08	BKP	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	9/5/23 16:08	BKP	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	9/5/23 16:08	BKP	EPA 8260D	
1,3-Dichlorobenzene	ND	ug/L	0.500	9/5/23 16:08	BKP	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	9/5/23 16:08	BKP	EPA 8260D	
1,4-Dichlorobenzene	ND	ug/L	0.500	9/5/23 16:08	BKP	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	9/5/23 16:08	BKP	EPA 8260D	
2-Chlorotoluene	ND	ug/L	0.500	9/5/23 16:08	BKP	EPA 8260D	
2-hexanone	ND	ug/L	2.50	9/5/23 16:08	BKP	EPA 8260D	
4-Chlorotoluene	ND	ug/L	0.500	9/5/23 16:08	BKP	EPA 8260D	
Acetone	4.32	ug/L	2.50	9/5/23 16:08	BKP	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	9/5/23 16:08	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: 03Q23LCMW09SW
Lab/Sample Number: MDI0021-02 Collect Date: 08/29/23 10:50
Date Received: 08/30/23 12:24 Collected By:
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Benzene	ND	ug/L	0.500	9/5/23 16:08	BKP	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	9/5/23 16:08	BKP	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	9/5/23 16:08	BKP	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	9/5/23 16:08	BKP	EPA 8260D	
Bromoform	ND	ug/L	0.500	9/5/23 16:08	BKP	EPA 8260D	
Bromomethane	ND	ug/L	0.500	9/5/23 16:08	BKP	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	9/5/23 16:08	BKP	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	9/5/23 16:08	BKP	EPA 8260D	
Chlorobenzene	ND	ug/L	0.500	9/5/23 16:08	BKP	EPA 8260D	
Chloroethane	ND	ug/L	0.500	9/5/23 16:08	BKP	EPA 8260D	
Chloroform	ND	ug/L	0.500	9/5/23 16:08	BKP	EPA 8260D	
Chloromethane	ND	ug/L	0.500	9/5/23 16:08	BKP	EPA 8260D	
cis-1,2-dichloroethene	ND	ug/L	0.500	9/5/23 16:08	BKP	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	9/5/23 16:08	BKP	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	9/5/23 16:08	BKP	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	9/5/23 16:08	BKP	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	9/5/23 16:08	BKP	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	9/5/23 16:08	BKP	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	9/5/23 16:08	BKP	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	9/5/23 16:08	BKP	EPA 8260D	
m+p-Xylene	ND	ug/L	0.500	9/5/23 16:08	BKP	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	9/5/23 16:08	BKP	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	9/5/23 16:08	BKP	EPA 8260D	
Methylene chloride	ND	ug/L	2.50	9/5/23 16:08	BKP	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	9/5/23 16:08	BKP	EPA 8260D	
Naphthalene	ND	ug/L	0.500	9/5/23 16:08	BKP	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	9/5/23 16:08	BKP	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	9/5/23 16:08	BKP	EPA 8260D	
o-Xylene	ND	ug/L	0.500	9/5/23 16:08	BKP	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	9/5/23 16:08	BKP	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	9/5/23 16:08	BKP	EPA 8260D	
Styrene	ND	ug/L	0.500	9/5/23 16:08	BKP	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	9/5/23 16:08	BKP	EPA 8260D	
Tetrachloroethene	ND	ug/L	0.500	9/5/23 16:08	BKP	EPA 8260D	
Toluene	ND	ug/L	0.500	9/5/23 16:08	BKP	EPA 8260D	
trans-1,2-Dichloroethene	ND	ug/L	0.500	9/5/23 16:08	BKP	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	9/5/23 16:08	BKP	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	9/5/23 16:08	BKP	EPA 8260D	
Trichlorofluoromethane	ND	ug/L	0.500	9/5/23 16:08	BKP	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	9/5/23 16:08	BKP	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*100%*		*70-130*	*9/5/23 16:08*	*BKP*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*102%*		*70-130*	*9/5/23 16:08*	*BKP*	*EPA 8260D*	
Surrogate: Toluene-d8	*96.9%*		*70-130*	*9/5/23 16:08*	*BKP*	*EPA 8260D*	

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Analytical Results Report

(Continued)

Sample Location:	03Q23LCMW09SW		
Lab/Sample Number:	MDI0021-02	Collect Date:	08/29/23 10:50
Date Received:	08/30/23 12:24	Collected By:	
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							

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Analytical Results Report

(Continued)

Sample Location: 03Q23LCMW09DW
Lab/Sample Number: MDI0021-03 Collect Date: 08/29/23 09:30
Date Received: 08/30/23 12:24 Collected By:
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Perchlorate	ND	ug/L	0.500	8/31/23 19:29	GPB	EPA 6850	
Semivolatiles							
1,3,5-TNB	ND	ug/L	0.500	9/15/23 6:37	MER	EPA 8330B	
1,3-Dinitrobenzene	ND	ug/L	0.500	9/15/23 6:37	MER	EPA 8330B	
2,4,6-Trinitrotoluene	ND	ug/L	0.100	9/15/23 6:37	MER	EPA 8330B	
2,4-Dinitrotoluene	ND	ug/L	0.100	9/15/23 6:37	MER	EPA 8330B	
2,6-DNT	ND	ug/L	0.500	9/15/23 6:37	MER	EPA 8330B	
2-Amino-4,6-dinitrotoluene	ND	ug/L	0.500	9/15/23 6:37	MER	EPA 8330B	
2-Nitrotoluene	ND	ug/L	0.500	9/15/23 6:37	MER	EPA 8330B	
3-Nitrotoluene	ND	ug/L	0.500	9/15/23 6:37	MER	EPA 8330B	
4-Amino-2,6-dinitrotoluene	ND	ug/L	0.500	9/15/23 6:37	MER	EPA 8330B	
4-Nitrotoluene	ND	ug/L	0.500	9/15/23 6:37	MER	EPA 8330B	
HMX	ND	ug/L	0.100	9/15/23 6:37	MER	EPA 8330B	
NB	ND	ug/L	0.500	9/15/23 6:37	MER	EPA 8330B	
RDX	ND	ug/L	0.100	9/15/23 6:37	MER	EPA 8330B	
Tetryl	ND	ug/L	0.500	9/15/23 6:37	MER	EPA 8330B	
Surrogate: 1,2-Dinitrobenzene	*75.3%*		*70-130*	*9/15/23 6:37*	*MER*	*EPA 8330B*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	9/5/23 16:41	BKP	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	9/5/23 16:41	BKP	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	9/5/23 16:41	BKP	EPA 8260D	
1,1,2-Trichloroethane	ND	ug/L	0.500	9/5/23 16:41	BKP	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	9/5/23 16:41	BKP	EPA 8260D	
1,1-Dichloroethene	ND	ug/L	0.500	9/5/23 16:41	BKP	EPA 8260D	
1,1-dichloropropene	ND	ug/L	0.500	9/5/23 16:41	BKP	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	9/5/23 16:41	BKP	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	9/5/23 16:41	BKP	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	9/5/23 16:41	BKP	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	9/5/23 16:41	BKP	EPA 8260D	
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.500	9/5/23 16:41	BKP	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	ug/L	0.500	9/5/23 16:41	BKP	EPA 8260D	
1,2-Dichlorobenzene	ND	ug/L	0.500	9/5/23 16:41	BKP	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	9/5/23 16:41	BKP	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	9/5/23 16:41	BKP	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	9/5/23 16:41	BKP	EPA 8260D	
1,3-Dichlorobenzene	ND	ug/L	0.500	9/5/23 16:41	BKP	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	9/5/23 16:41	BKP	EPA 8260D	
1,4-Dichlorobenzene	ND	ug/L	0.500	9/5/23 16:41	BKP	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	9/5/23 16:41	BKP	EPA 8260D	
2-Chlorotoluene	ND	ug/L	0.500	9/5/23 16:41	BKP	EPA 8260D	
2-hexanone	ND	ug/L	2.50	9/5/23 16:41	BKP	EPA 8260D	
4-Chlorotoluene	ND	ug/L	0.500	9/5/23 16:41	BKP	EPA 8260D	
Acetone	ND	ug/L	2.50	9/5/23 16:41	BKP	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	9/5/23 16:41	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: 03Q23LCMW09DW
Lab/Sample Number: MDI0021-03 Collect Date: 08/29/23 09:30
Date Received: 08/30/23 12:24 Collected By:
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Benzene	ND	ug/L	0.500	9/5/23 16:41	BKP	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	9/5/23 16:41	BKP	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	9/5/23 16:41	BKP	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	9/5/23 16:41	BKP	EPA 8260D	
Bromoform	ND	ug/L	0.500	9/5/23 16:41	BKP	EPA 8260D	
Bromomethane	ND	ug/L	0.500	9/5/23 16:41	BKP	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	9/5/23 16:41	BKP	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	9/5/23 16:41	BKP	EPA 8260D	
Chlorobenzene	ND	ug/L	0.500	9/5/23 16:41	BKP	EPA 8260D	
Chloroethane	ND	ug/L	0.500	9/5/23 16:41	BKP	EPA 8260D	
Chloroform	ND	ug/L	0.500	9/5/23 16:41	BKP	EPA 8260D	
Chloromethane	ND	ug/L	0.500	9/5/23 16:41	BKP	EPA 8260D	
cis-1,2-dichloroethene	ND	ug/L	0.500	9/5/23 16:41	BKP	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	9/5/23 16:41	BKP	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	9/5/23 16:41	BKP	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	9/5/23 16:41	BKP	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	9/5/23 16:41	BKP	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	9/5/23 16:41	BKP	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	9/5/23 16:41	BKP	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	9/5/23 16:41	BKP	EPA 8260D	
m+p-Xylene	ND	ug/L	0.500	9/5/23 16:41	BKP	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	9/5/23 16:41	BKP	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	9/5/23 16:41	BKP	EPA 8260D	
Methylene chloride	ND	ug/L	2.50	9/5/23 16:41	BKP	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	9/5/23 16:41	BKP	EPA 8260D	
Naphthalene	ND	ug/L	0.500	9/5/23 16:41	BKP	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	9/5/23 16:41	BKP	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	9/5/23 16:41	BKP	EPA 8260D	
o-Xylene	ND	ug/L	0.500	9/5/23 16:41	BKP	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	9/5/23 16:41	BKP	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	9/5/23 16:41	BKP	EPA 8260D	
Styrene	ND	ug/L	0.500	9/5/23 16:41	BKP	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	9/5/23 16:41	BKP	EPA 8260D	
Tetrachloroethene	ND	ug/L	0.500	9/5/23 16:41	BKP	EPA 8260D	
Toluene	ND	ug/L	0.500	9/5/23 16:41	BKP	EPA 8260D	
trans-1,2-Dichloroethene	ND	ug/L	0.500	9/5/23 16:41	BKP	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	9/5/23 16:41	BKP	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	9/5/23 16:41	BKP	EPA 8260D	
Trichlorofluoromethane	ND	ug/L	0.500	9/5/23 16:41	BKP	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	9/5/23 16:41	BKP	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*100%*		*70-130*	*9/5/23 16:41*	*BKP*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*92.9%*		*70-130*	*9/5/23 16:41*	*BKP*	*EPA 8260D*	
Surrogate: Toluene-d8	*97.1%*		*70-130*	*9/5/23 16:41*	*BKP*	*EPA 8260D*	

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Analytical Results Report

(Continued)

Sample Location:	03Q23LCMW09DW		
Lab/Sample Number:	MDI0021-03	Collect Date:	08/29/23 09:30
Date Received:	08/30/23 12:24	Collected By:	
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							

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Analytical Results Report

(Continued)

Sample Location: 03Q23LCMW02DW
Lab/Sample Number: MDI0021-04 Collect Date: 08/29/23 13:35
Date Received: 08/30/23 12:24 Collected By:
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Perchlorate	ND	ug/L	0.500	8/31/23 20:06	GPB	EPA 6850	
Semivolatiles							
1,3,5-TNB	ND	ug/L	0.500	9/15/23 7:15	MER	EPA 8330B	
1,3-Dinitrobenzene	ND	ug/L	0.500	9/15/23 7:15	MER	EPA 8330B	
2,4,6-Trinitrotoluene	ND	ug/L	0.100	9/15/23 7:15	MER	EPA 8330B	
2,4-Dinitrotoluene	ND	ug/L	0.100	9/15/23 7:15	MER	EPA 8330B	
2,6-DNT	ND	ug/L	0.500	9/15/23 7:15	MER	EPA 8330B	
2-Amino-4,6-dinitrotoluene	ND	ug/L	0.500	9/15/23 7:15	MER	EPA 8330B	
2-Nitrotoluene	ND	ug/L	0.500	9/15/23 7:15	MER	EPA 8330B	
3-Nitrotoluene	ND	ug/L	0.500	9/15/23 7:15	MER	EPA 8330B	
4-Amino-2,6-dinitrotoluene	ND	ug/L	0.500	9/15/23 7:15	MER	EPA 8330B	
4-Nitrotoluene	ND	ug/L	0.500	9/15/23 7:15	MER	EPA 8330B	
HMX	ND	ug/L	0.100	9/15/23 7:15	MER	EPA 8330B	
NB	ND	ug/L	0.500	9/15/23 7:15	MER	EPA 8330B	
RDX	ND	ug/L	0.100	9/15/23 7:15	MER	EPA 8330B	
Tetryl	ND	ug/L	0.500	9/15/23 7:15	MER	EPA 8330B	
Surrogate: 1,2-Dinitrobenzene	*76.5%*		*70-130*	*9/15/23 7:15*	*MER*	*EPA 8330B*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	9/5/23 17:13	BKP	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	9/5/23 17:13	BKP	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	9/5/23 17:13	BKP	EPA 8260D	
1,1,2-Trichloroethane	ND	ug/L	0.500	9/5/23 17:13	BKP	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	9/5/23 17:13	BKP	EPA 8260D	
1,1-Dichloroethene	ND	ug/L	0.500	9/5/23 17:13	BKP	EPA 8260D	
1,1-dichloropropene	ND	ug/L	0.500	9/5/23 17:13	BKP	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	9/5/23 17:13	BKP	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	9/5/23 17:13	BKP	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	9/5/23 17:13	BKP	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	9/5/23 17:13	BKP	EPA 8260D	
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.500	9/5/23 17:13	BKP	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	ug/L	0.500	9/5/23 17:13	BKP	EPA 8260D	
1,2-Dichlorobenzene	ND	ug/L	0.500	9/5/23 17:13	BKP	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	9/5/23 17:13	BKP	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	9/5/23 17:13	BKP	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	9/5/23 17:13	BKP	EPA 8260D	
1,3-Dichlorobenzene	ND	ug/L	0.500	9/5/23 17:13	BKP	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	9/5/23 17:13	BKP	EPA 8260D	
1,4-Dichlorobenzene	ND	ug/L	0.500	9/5/23 17:13	BKP	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	9/5/23 17:13	BKP	EPA 8260D	
2-Chlorotoluene	ND	ug/L	0.500	9/5/23 17:13	BKP	EPA 8260D	
2-hexanone	ND	ug/L	2.50	9/5/23 17:13	BKP	EPA 8260D	
4-Chlorotoluene	ND	ug/L	0.500	9/5/23 17:13	BKP	EPA 8260D	
Acetone	ND	ug/L	2.50	9/5/23 17:13	BKP	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	9/5/23 17:13	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: 03Q23LCMW02DW
Lab/Sample Number: MDI0021-04 Collect Date: 08/29/23 13:35
Date Received: 08/30/23 12:24 Collected By:
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Benzene	ND	ug/L	0.500	9/5/23 17:13	BKP	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	9/5/23 17:13	BKP	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	9/5/23 17:13	BKP	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	9/5/23 17:13	BKP	EPA 8260D	
Bromoform	ND	ug/L	0.500	9/5/23 17:13	BKP	EPA 8260D	
Bromomethane	ND	ug/L	0.500	9/5/23 17:13	BKP	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	9/5/23 17:13	BKP	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	9/5/23 17:13	BKP	EPA 8260D	
Chlorobenzene	ND	ug/L	0.500	9/5/23 17:13	BKP	EPA 8260D	
Chloroethane	ND	ug/L	0.500	9/5/23 17:13	BKP	EPA 8260D	
Chloroform	ND	ug/L	0.500	9/5/23 17:13	BKP	EPA 8260D	
Chloromethane	ND	ug/L	0.500	9/5/23 17:13	BKP	EPA 8260D	
cis-1,2-dichloroethene	ND	ug/L	0.500	9/5/23 17:13	BKP	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	9/5/23 17:13	BKP	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	9/5/23 17:13	BKP	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	9/5/23 17:13	BKP	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	9/5/23 17:13	BKP	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	9/5/23 17:13	BKP	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	9/5/23 17:13	BKP	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	9/5/23 17:13	BKP	EPA 8260D	
m+p-Xylene	ND	ug/L	0.500	9/5/23 17:13	BKP	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	9/5/23 17:13	BKP	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	9/5/23 17:13	BKP	EPA 8260D	
Methylene chloride	ND	ug/L	2.50	9/5/23 17:13	BKP	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	9/5/23 17:13	BKP	EPA 8260D	
Naphthalene	ND	ug/L	0.500	9/5/23 17:13	BKP	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	9/5/23 17:13	BKP	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	9/5/23 17:13	BKP	EPA 8260D	
o-Xylene	ND	ug/L	0.500	9/5/23 17:13	BKP	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	9/5/23 17:13	BKP	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	9/5/23 17:13	BKP	EPA 8260D	
Styrene	ND	ug/L	0.500	9/5/23 17:13	BKP	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	9/5/23 17:13	BKP	EPA 8260D	
Tetrachloroethene	ND	ug/L	0.500	9/5/23 17:13	BKP	EPA 8260D	
Toluene	ND	ug/L	0.500	9/5/23 17:13	BKP	EPA 8260D	
trans-1,2-Dichloroethene	ND	ug/L	0.500	9/5/23 17:13	BKP	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	9/5/23 17:13	BKP	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	9/5/23 17:13	BKP	EPA 8260D	
Trichlorofluoromethane	ND	ug/L	0.500	9/5/23 17:13	BKP	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	9/5/23 17:13	BKP	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*100%*		*70-130*	*9/5/23 17:13*	*BKP*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*96.6%*		*70-130*	*9/5/23 17:13*	*BKP*	*EPA 8260D*	
Surrogate: Toluene-d8	*97.2%*		*70-130*	*9/5/23 17:13*	*BKP*	*EPA 8260D*	

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Analytical Results Report

(Continued)

Sample Location:	03Q23LCMW02DW		
Lab/Sample Number:	MDI0021-04	Collect Date:	08/29/23 13:35
Date Received:	08/30/23 12:24	Collected By:	
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							

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Analytical Results Report

(Continued)

Sample Location: 03Q23LCMW02SW
Lab/Sample Number: MDI0021-05 Collect Date: 08/29/23 14:00
Date Received: 08/30/23 12:24 Collected By:
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Perchlorate	ND	ug/L	0.500	8/31/23 20:13	GPB	EPA 6850	
Semivolatiles							
1,3,5-TNB	ND	ug/L	0.500	9/15/23 7:53	MER	EPA 8330B	
1,3-Dinitrobenzene	ND	ug/L	0.500	9/15/23 7:53	MER	EPA 8330B	
2,4,6-Trinitrotoluene	ND	ug/L	0.100	9/15/23 7:53	MER	EPA 8330B	
2,4-Dinitrotoluene	ND	ug/L	0.100	9/15/23 7:53	MER	EPA 8330B	
2,6-DNT	ND	ug/L	0.500	9/15/23 7:53	MER	EPA 8330B	
2-Amino-4,6-dinitrotoluene	ND	ug/L	0.500	9/15/23 7:53	MER	EPA 8330B	
2-Nitrotoluene	ND	ug/L	0.500	9/15/23 7:53	MER	EPA 8330B	
3-Nitrotoluene	ND	ug/L	0.500	9/15/23 7:53	MER	EPA 8330B	
4-Amino-2,6-dinitrotoluene	ND	ug/L	0.500	9/15/23 7:53	MER	EPA 8330B	
4-Nitrotoluene	ND	ug/L	0.500	9/15/23 7:53	MER	EPA 8330B	
HMX	ND	ug/L	0.100	9/15/23 7:53	MER	EPA 8330B	
NB	ND	ug/L	0.500	9/15/23 7:53	MER	EPA 8330B	
RDX	ND	ug/L	0.100	9/15/23 7:53	MER	EPA 8330B	
Tetryl	ND	ug/L	0.500	9/15/23 7:53	MER	EPA 8330B	
Surrogate: 1,2-Dinitrobenzene	*75.5%*		*70-130*	*9/15/23 7:53*	*MER*	*EPA 8330B*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	9/5/23 17:46	BKP	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	9/5/23 17:46	BKP	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	9/5/23 17:46	BKP	EPA 8260D	
1,1,2-Trichloroethane	ND	ug/L	0.500	9/5/23 17:46	BKP	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	9/5/23 17:46	BKP	EPA 8260D	
1,1-Dichloroethene	ND	ug/L	0.500	9/5/23 17:46	BKP	EPA 8260D	
1,1-dichloropropene	ND	ug/L	0.500	9/5/23 17:46	BKP	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	9/5/23 17:46	BKP	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	9/5/23 17:46	BKP	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	9/5/23 17:46	BKP	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	9/5/23 17:46	BKP	EPA 8260D	
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.500	9/5/23 17:46	BKP	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	ug/L	0.500	9/5/23 17:46	BKP	EPA 8260D	
1,2-Dichlorobenzene	ND	ug/L	0.500	9/5/23 17:46	BKP	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	9/5/23 17:46	BKP	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	9/5/23 17:46	BKP	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	9/5/23 17:46	BKP	EPA 8260D	
1,3-Dichlorobenzene	ND	ug/L	0.500	9/5/23 17:46	BKP	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	9/5/23 17:46	BKP	EPA 8260D	
1,4-Dichlorobenzene	ND	ug/L	0.500	9/5/23 17:46	BKP	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	9/5/23 17:46	BKP	EPA 8260D	
2-Chlorotoluene	ND	ug/L	0.500	9/5/23 17:46	BKP	EPA 8260D	
2-hexanone	ND	ug/L	2.50	9/5/23 17:46	BKP	EPA 8260D	
4-Chlorotoluene	ND	ug/L	0.500	9/5/23 17:46	BKP	EPA 8260D	
Acetone	ND	ug/L	2.50	9/5/23 17:46	BKP	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	9/5/23 17:46	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: 03Q23LCMW02SW
Lab/Sample Number: MDI0021-05 Collect Date: 08/29/23 14:00
Date Received: 08/30/23 12:24 Collected By:
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Benzene	ND	ug/L	0.500	9/5/23 17:46	BKP	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	9/5/23 17:46	BKP	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	9/5/23 17:46	BKP	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	9/5/23 17:46	BKP	EPA 8260D	
Bromoform	ND	ug/L	0.500	9/5/23 17:46	BKP	EPA 8260D	
Bromomethane	ND	ug/L	0.500	9/5/23 17:46	BKP	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	9/5/23 17:46	BKP	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	9/5/23 17:46	BKP	EPA 8260D	
Chlorobenzene	ND	ug/L	0.500	9/5/23 17:46	BKP	EPA 8260D	
Chloroethane	ND	ug/L	0.500	9/5/23 17:46	BKP	EPA 8260D	
Chloroform	ND	ug/L	0.500	9/5/23 17:46	BKP	EPA 8260D	
Chloromethane	ND	ug/L	0.500	9/5/23 17:46	BKP	EPA 8260D	
cis-1,2-dichloroethene	ND	ug/L	0.500	9/5/23 17:46	BKP	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	9/5/23 17:46	BKP	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	9/5/23 17:46	BKP	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	9/5/23 17:46	BKP	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	9/5/23 17:46	BKP	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	9/5/23 17:46	BKP	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	9/5/23 17:46	BKP	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	9/5/23 17:46	BKP	EPA 8260D	
m+p-Xylene	ND	ug/L	0.500	9/5/23 17:46	BKP	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	9/5/23 17:46	BKP	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	9/5/23 17:46	BKP	EPA 8260D	
Methylene chloride	ND	ug/L	2.50	9/5/23 17:46	BKP	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	9/5/23 17:46	BKP	EPA 8260D	
Naphthalene	ND	ug/L	0.500	9/5/23 17:46	BKP	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	9/5/23 17:46	BKP	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	9/5/23 17:46	BKP	EPA 8260D	
o-Xylene	ND	ug/L	0.500	9/5/23 17:46	BKP	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	9/5/23 17:46	BKP	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	9/5/23 17:46	BKP	EPA 8260D	
Styrene	ND	ug/L	0.500	9/5/23 17:46	BKP	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	9/5/23 17:46	BKP	EPA 8260D	
Tetrachloroethene	ND	ug/L	0.500	9/5/23 17:46	BKP	EPA 8260D	
Toluene	ND	ug/L	0.500	9/5/23 17:46	BKP	EPA 8260D	
trans-1,2-Dichloroethene	ND	ug/L	0.500	9/5/23 17:46	BKP	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	9/5/23 17:46	BKP	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	9/5/23 17:46	BKP	EPA 8260D	
Trichlorofluoromethane	ND	ug/L	0.500	9/5/23 17:46	BKP	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	9/5/23 17:46	BKP	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*100%*		*70-130*	*9/5/23 17:46*	*BKP*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*90.9%*		*70-130*	*9/5/23 17:46*	*BKP*	*EPA 8260D*	
Surrogate: Toluene-d8	*97.6%*		*70-130*	*9/5/23 17:46*	*BKP*	*EPA 8260D*	

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Analytical Results Report

(Continued)

Sample Location:	03Q23LCMW02SW		
Lab/Sample Number:	MDI0021-05	Collect Date:	08/29/23 14:00
Date Received:	08/30/23 12:24	Collected By:	
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							

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Analytical Results Report

(Continued)

Sample Location: 03Q23LCMW03SW
Lab/Sample Number: MDI0021-06 Collect Date: 08/29/23 15:00
Date Received: 08/30/23 12:24 Collected By:
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Perchlorate	ND	ug/L	0.500	8/31/23 20:20	GPB	EPA 6850	
Semivolatiles							
1,3,5-TNB	ND	ug/L	0.500	9/15/23 8:30	MER	EPA 8330B	
1,3-Dinitrobenzene	ND	ug/L	0.500	9/15/23 8:30	MER	EPA 8330B	
2,4,6-Trinitrotoluene	ND	ug/L	0.100	9/15/23 8:30	MER	EPA 8330B	
2,4-Dinitrotoluene	ND	ug/L	0.100	9/15/23 8:30	MER	EPA 8330B	
2,6-DNT	ND	ug/L	0.500	9/15/23 8:30	MER	EPA 8330B	
2-Amino-4,6-dinitrotoluene	ND	ug/L	0.500	9/15/23 8:30	MER	EPA 8330B	
2-Nitrotoluene	ND	ug/L	0.500	9/15/23 8:30	MER	EPA 8330B	
3-Nitrotoluene	ND	ug/L	0.500	9/15/23 8:30	MER	EPA 8330B	
4-Amino-2,6-dinitrotoluene	ND	ug/L	0.500	9/15/23 8:30	MER	EPA 8330B	
4-Nitrotoluene	ND	ug/L	0.500	9/15/23 8:30	MER	EPA 8330B	
HMX	ND	ug/L	0.100	9/15/23 8:30	MER	EPA 8330B	
NB	ND	ug/L	0.500	9/15/23 8:30	MER	EPA 8330B	
RDX	ND	ug/L	0.100	9/15/23 8:30	MER	EPA 8330B	
Tetryl	ND	ug/L	0.500	9/15/23 8:30	MER	EPA 8330B	
Surrogate: 1,2-Dinitrobenzene	*71.2%*		*70-130*	*9/15/23 8:30*	*MER*	*EPA 8330B*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	9/5/23 18:18	BKP	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	9/5/23 18:18	BKP	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	9/5/23 18:18	BKP	EPA 8260D	
1,1,2-Trichloroethane	ND	ug/L	0.500	9/5/23 18:18	BKP	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	9/5/23 18:18	BKP	EPA 8260D	
1,1-Dichloroethene	ND	ug/L	0.500	9/5/23 18:18	BKP	EPA 8260D	
1,1-dichloropropene	ND	ug/L	0.500	9/5/23 18:18	BKP	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	9/5/23 18:18	BKP	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	9/5/23 18:18	BKP	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	9/5/23 18:18	BKP	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	9/5/23 18:18	BKP	EPA 8260D	
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.500	9/5/23 18:18	BKP	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	ug/L	0.500	9/5/23 18:18	BKP	EPA 8260D	
1,2-Dichlorobenzene	ND	ug/L	0.500	9/5/23 18:18	BKP	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	9/5/23 18:18	BKP	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	9/5/23 18:18	BKP	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	9/5/23 18:18	BKP	EPA 8260D	
1,3-Dichlorobenzene	ND	ug/L	0.500	9/5/23 18:18	BKP	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	9/5/23 18:18	BKP	EPA 8260D	
1,4-Dichlorobenzene	ND	ug/L	0.500	9/5/23 18:18	BKP	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	9/5/23 18:18	BKP	EPA 8260D	
2-Chlorotoluene	ND	ug/L	0.500	9/5/23 18:18	BKP	EPA 8260D	
2-hexanone	ND	ug/L	2.50	9/5/23 18:18	BKP	EPA 8260D	
4-Chlorotoluene	ND	ug/L	0.500	9/5/23 18:18	BKP	EPA 8260D	
Acetone	ND	ug/L	2.50	9/5/23 18:18	BKP	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	9/5/23 18:18	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: 03Q23LCMW03SW
Lab/Sample Number: MDI0021-06 Collect Date: 08/29/23 15:00
Date Received: 08/30/23 12:24 Collected By:
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Benzene	ND	ug/L	0.500	9/5/23 18:18	BKP	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	9/5/23 18:18	BKP	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	9/5/23 18:18	BKP	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	9/5/23 18:18	BKP	EPA 8260D	
Bromoform	ND	ug/L	0.500	9/5/23 18:18	BKP	EPA 8260D	
Bromomethane	ND	ug/L	0.500	9/5/23 18:18	BKP	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	9/5/23 18:18	BKP	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	9/5/23 18:18	BKP	EPA 8260D	
Chlorobenzene	ND	ug/L	0.500	9/5/23 18:18	BKP	EPA 8260D	
Chloroethane	ND	ug/L	0.500	9/5/23 18:18	BKP	EPA 8260D	
Chloroform	ND	ug/L	0.500	9/5/23 18:18	BKP	EPA 8260D	
Chloromethane	ND	ug/L	0.500	9/5/23 18:18	BKP	EPA 8260D	
cis-1,2-dichloroethene	ND	ug/L	0.500	9/5/23 18:18	BKP	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	9/5/23 18:18	BKP	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	9/5/23 18:18	BKP	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	9/5/23 18:18	BKP	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	9/5/23 18:18	BKP	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	9/5/23 18:18	BKP	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	9/5/23 18:18	BKP	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	9/5/23 18:18	BKP	EPA 8260D	
m+p-Xylene	ND	ug/L	0.500	9/5/23 18:18	BKP	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	9/5/23 18:18	BKP	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	9/5/23 18:18	BKP	EPA 8260D	
Methylene chloride	ND	ug/L	2.50	9/5/23 18:18	BKP	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	9/5/23 18:18	BKP	EPA 8260D	
Naphthalene	ND	ug/L	0.500	9/5/23 18:18	BKP	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	9/5/23 18:18	BKP	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	9/5/23 18:18	BKP	EPA 8260D	
o-Xylene	ND	ug/L	0.500	9/5/23 18:18	BKP	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	9/5/23 18:18	BKP	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	9/5/23 18:18	BKP	EPA 8260D	
Styrene	ND	ug/L	0.500	9/5/23 18:18	BKP	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	9/5/23 18:18	BKP	EPA 8260D	
Tetrachloroethene	ND	ug/L	0.500	9/5/23 18:18	BKP	EPA 8260D	
Toluene	ND	ug/L	0.500	9/5/23 18:18	BKP	EPA 8260D	
trans-1,2-Dichloroethene	ND	ug/L	0.500	9/5/23 18:18	BKP	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	9/5/23 18:18	BKP	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	9/5/23 18:18	BKP	EPA 8260D	
Trichlorofluoromethane	ND	ug/L	0.500	9/5/23 18:18	BKP	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	9/5/23 18:18	BKP	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*100%*		*70-130*	*9/5/23 18:18*	*BKP*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*101%*		*70-130*	*9/5/23 18:18*	*BKP*	*EPA 8260D*	
Surrogate: Toluene-d8	*97.2%*		*70-130*	*9/5/23 18:18*	*BKP*	*EPA 8260D*	

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Analytical Results Report

(Continued)

Sample Location:	03Q23LCMW03SW		
Lab/Sample Number:	MDI0021-06	Collect Date:	08/29/23 15:00
Date Received:	08/30/23 12:24	Collected By:	
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							

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Analytical Results Report

(Continued)

Sample Location: 03Q23LCMW03DW
Lab/Sample Number: MDI0021-07 Collect Date: 08/29/23 15:30
Date Received: 08/30/23 12:24 Collected By:
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Perchlorate	ND	ug/L	0.500	8/31/23 20:28	GPB	EPA 6850	
Semivolatiles							
1,3,5-TNB	ND	ug/L	0.500	9/15/23 9:08	MER	EPA 8330B	
1,3-Dinitrobenzene	ND	ug/L	0.500	9/15/23 9:08	MER	EPA 8330B	
2,4,6-Trinitrotoluene	ND	ug/L	0.100	9/15/23 9:08	MER	EPA 8330B	
2,4-Dinitrotoluene	ND	ug/L	0.100	9/15/23 9:08	MER	EPA 8330B	
2,6-DNT	ND	ug/L	0.500	9/15/23 9:08	MER	EPA 8330B	
2-Amino-4,6-dinitrotoluene	ND	ug/L	0.500	9/15/23 9:08	MER	EPA 8330B	
2-Nitrotoluene	ND	ug/L	0.500	9/15/23 9:08	MER	EPA 8330B	
3-Nitrotoluene	ND	ug/L	0.500	9/15/23 9:08	MER	EPA 8330B	
4-Amino-2,6-dinitrotoluene	ND	ug/L	0.500	9/15/23 9:08	MER	EPA 8330B	
4-Nitrotoluene	ND	ug/L	0.500	9/15/23 9:08	MER	EPA 8330B	
HMX	ND	ug/L	0.100	9/15/23 9:08	MER	EPA 8330B	
NB	ND	ug/L	0.500	9/15/23 9:08	MER	EPA 8330B	
RDX	ND	ug/L	0.100	9/15/23 9:08	MER	EPA 8330B	
Tetryl	ND	ug/L	0.500	9/15/23 9:08	MER	EPA 8330B	
Surrogate: 1,2-Dinitrobenzene	*79.6%*		*70-130*	*9/15/23 9:08*	*MER*	*EPA 8330B*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	9/5/23 18:51	BKP	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	9/5/23 18:51	BKP	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	9/5/23 18:51	BKP	EPA 8260D	
1,1,2-Trichloroethane	ND	ug/L	0.500	9/5/23 18:51	BKP	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	9/5/23 18:51	BKP	EPA 8260D	
1,1-Dichloroethene	ND	ug/L	0.500	9/5/23 18:51	BKP	EPA 8260D	
1,1-dichloropropene	ND	ug/L	0.500	9/5/23 18:51	BKP	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	9/5/23 18:51	BKP	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	9/5/23 18:51	BKP	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	9/5/23 18:51	BKP	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	9/5/23 18:51	BKP	EPA 8260D	
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.500	9/5/23 18:51	BKP	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	ug/L	0.500	9/5/23 18:51	BKP	EPA 8260D	
1,2-Dichlorobenzene	ND	ug/L	0.500	9/5/23 18:51	BKP	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	9/5/23 18:51	BKP	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	9/5/23 18:51	BKP	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	9/5/23 18:51	BKP	EPA 8260D	
1,3-Dichlorobenzene	ND	ug/L	0.500	9/5/23 18:51	BKP	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	9/5/23 18:51	BKP	EPA 8260D	
1,4-Dichlorobenzene	ND	ug/L	0.500	9/5/23 18:51	BKP	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	9/5/23 18:51	BKP	EPA 8260D	
2-Chlorotoluene	ND	ug/L	0.500	9/5/23 18:51	BKP	EPA 8260D	
2-hexanone	ND	ug/L	2.50	9/5/23 18:51	BKP	EPA 8260D	
4-Chlorotoluene	ND	ug/L	0.500	9/5/23 18:51	BKP	EPA 8260D	
Acetone	ND	ug/L	2.50	9/5/23 18:51	BKP	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	9/5/23 18:51	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: 03Q23LCMW03DW
Lab/Sample Number: MDI0021-07 Collect Date: 08/29/23 15:30
Date Received: 08/30/23 12:24 Collected By:
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Benzene	ND	ug/L	0.500	9/5/23 18:51	BKP	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	9/5/23 18:51	BKP	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	9/5/23 18:51	BKP	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	9/5/23 18:51	BKP	EPA 8260D	
Bromoform	ND	ug/L	0.500	9/5/23 18:51	BKP	EPA 8260D	
Bromomethane	ND	ug/L	0.500	9/5/23 18:51	BKP	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	9/5/23 18:51	BKP	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	9/5/23 18:51	BKP	EPA 8260D	
Chlorobenzene	ND	ug/L	0.500	9/5/23 18:51	BKP	EPA 8260D	
Chloroethane	ND	ug/L	0.500	9/5/23 18:51	BKP	EPA 8260D	
Chloroform	ND	ug/L	0.500	9/5/23 18:51	BKP	EPA 8260D	
Chloromethane	ND	ug/L	0.500	9/5/23 18:51	BKP	EPA 8260D	
cis-1,2-dichloroethene	ND	ug/L	0.500	9/5/23 18:51	BKP	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	9/5/23 18:51	BKP	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	9/5/23 18:51	BKP	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	9/5/23 18:51	BKP	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	9/5/23 18:51	BKP	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	9/5/23 18:51	BKP	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	9/5/23 18:51	BKP	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	9/5/23 18:51	BKP	EPA 8260D	
m+p-Xylene	ND	ug/L	0.500	9/5/23 18:51	BKP	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	9/5/23 18:51	BKP	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	9/5/23 18:51	BKP	EPA 8260D	
Methylene chloride	ND	ug/L	2.50	9/5/23 18:51	BKP	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	9/5/23 18:51	BKP	EPA 8260D	
Naphthalene	ND	ug/L	0.500	9/5/23 18:51	BKP	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	9/5/23 18:51	BKP	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	9/5/23 18:51	BKP	EPA 8260D	
o-Xylene	ND	ug/L	0.500	9/5/23 18:51	BKP	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	9/5/23 18:51	BKP	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	9/5/23 18:51	BKP	EPA 8260D	
Styrene	ND	ug/L	0.500	9/5/23 18:51	BKP	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	9/5/23 18:51	BKP	EPA 8260D	
Tetrachloroethene	ND	ug/L	0.500	9/5/23 18:51	BKP	EPA 8260D	
Toluene	ND	ug/L	0.500	9/5/23 18:51	BKP	EPA 8260D	
trans-1,2-Dichloroethene	ND	ug/L	0.500	9/5/23 18:51	BKP	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	9/5/23 18:51	BKP	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	9/5/23 18:51	BKP	EPA 8260D	
Trichlorofluoromethane	ND	ug/L	0.500	9/5/23 18:51	BKP	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	9/5/23 18:51	BKP	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*100%*		*70-130*	*9/5/23 18:51*	*BKP*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*95.1%*		*70-130*	*9/5/23 18:51*	*BKP*	*EPA 8260D*	
Surrogate: Toluene-d8	*97.9%*		*70-130*	*9/5/23 18:51*	*BKP*	*EPA 8260D*	

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Analytical Results Report

(Continued)

Sample Location:	03Q23LCMW03DW		
Lab/Sample Number:	MDI0021-07	Collect Date:	08/29/23 15:30
Date Received:	08/30/23 12:24	Collected By:	
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							

Authorized Signature,

Justin Doty For Todd Taruscio, Laboratory Manager

L4	The associated blank spike recovery was below method acceptance limits. This analyte was not detected in the sample.
L5	The associated blank spike recovery was above laboratory/method acceptance limits. This analyte was not detected in the sample
M1	Matrix spike recovery was high; the associated blank spike recovery was acceptable. Potential matrix effect
M12	Matrix spike recovery was low. Potential matrix effect.
M13	Matrix spike recovery was high due to a potential matrix effect.
PQL	Practical Quantitation Limit
ND	Not Detected
MCL	EPA's Maximum Contaminant Level
Dry	Sample results reported on a dry weight basis
*	Not a state-certified analyte

RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was spiked or duplicated.

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Certifications

Code	Description	Facility	Number
DOE WA	Washington Department of Ecology	Anatek-Moscow, ID	C595

Quality Control Data

Inorganics

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDH1230 - Perchlorate										
Matrix Spike (BDH1230-MS2)			**Source: MDI0036-01**		Prepared: 8/31/2023 Analyzed: 9/15/2023					
Perchlorate	1.25	M13	0.500	ug/L	1.00	ND	125	80-120		
Matrix Spike Dup (BDH1230-MSD2)			**Source: MDI0036-01**		Prepared: 8/31/2023 Analyzed: 9/15/2023					
Perchlorate	1.14		0.500	ug/L	1.00	ND	114	80-120	9.21	20
Batch: BDI0071 - Perchlorate										
Blank (BDI0071-BLK1)					Prepared: 9/5/2023 Analyzed: 9/15/2023					
Perchlorate	ND		0.500	ug/L						
LCS (BDI0071-BS1)					Prepared: 9/5/2023 Analyzed: 9/15/2023					
Perchlorate	1.09		0.500	ug/L	1.00		109	80-120		
Matrix Spike (BDI0071-MS1)			**Source: MDI0021-01**		Prepared: 9/5/2023 Analyzed: 9/15/2023					
Perchlorate	1.01		0.500	ug/L	1.00	ND	101	80-120		
Matrix Spike (BDI0071-MS2)			**Source: MDI0024-01**		Prepared: 9/5/2023 Analyzed: 9/18/2023					
Perchlorate	454		25.0	ug/L	250	182	109	80-120		
Matrix Spike Dup (BDI0071-MSD1)			**Source: MDI0021-01**		Prepared: 9/5/2023 Analyzed: 9/15/2023					
Perchlorate	1.15		0.500	ug/L	1.00	ND	115	80-120	13.0	20
Matrix Spike Dup (BDI0071-MSD2)			**Source: MDI0024-01**		Prepared: 9/5/2023 Analyzed: 9/18/2023					
Perchlorate	496	M13	25.0	ug/L	250	182	126	80-120	8.84	20

Quality Control Data

Semivolatiles

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0064 - Explosives										
Blank (BDI0064-BLK1)					Prepared: 9/5/2023 Analyzed: 9/15/2023					
HMX	ND		0.100	ug/L						
RDX	ND		0.100	ug/L						
1,3,5-TNB	ND		0.500	ug/L						
1,3-Dinitrobenzene	ND		0.500	ug/L						
NB	ND		0.500	ug/L						
2,4,6-Trinitrotoluene	ND		0.100	ug/L						
Tetryl	ND		0.500	ug/L						
2,6-DNT	ND		0.500	ug/L						
2,4-Dinitrotoluene	ND		0.100	ug/L						
2-Nitrotoluene	ND		0.500	ug/L						
4-Nitrotoluene	ND		0.500	ug/L						
4-Amino-2,6-dinitrotoluene	ND		0.500	ug/L						
3-Nitrotoluene	ND		0.500	ug/L						
2-Amino-4,6-dinitrotoluene	ND		0.500	ug/L						
Surrogate: 1,2-Dinitrobenzene			*8.14*	*ug/L*	*10.0*		*81.4*	*70-130*		
Blank (BDI0064-BLK2)					Prepared: 9/5/2023 Analyzed: 9/15/2023					
HMX	ND		0.100	ug/L						
RDX	ND		0.100	ug/L						

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Quality Control Data
(Continued)

Semivolatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0064 - Explosives (Continued)										
Blank (BDI0064-BLK2)					Prepared: 9/5/2023 Analyzed: 9/15/2023					
1,3,5-TNB	ND		0.500	ug/L						
1,3-Dinitrobenzene	ND		0.500	ug/L						
NB	ND		0.500	ug/L						
2,4,6-Trinitrotoluene	ND		0.100	ug/L						
Tetryl	ND		0.500	ug/L						
2,6-DNT	ND		0.500	ug/L						
2,4-Dinitrotoluene	ND		0.100	ug/L						
2-Nitrotoluene	ND		0.500	ug/L						
4-Nitrotoluene	ND		0.500	ug/L						
4-Amino-2,6-dinitrotoluene	ND		0.500	ug/L						
3-Nitrotoluene	ND		0.500	ug/L						
2-Amino-4,6-dinitrotoluene	ND		0.500	ug/L						
Surrogate: 1,2-Dinitrobenzene			*8.13*	*ug/L*	*10.0*		*81.3*	*70-130*		
Blank (BDI0064-BLK3)					Prepared: 9/5/2023 Analyzed: 9/16/2023					
HMX	ND		0.100	ug/L						
RDX	ND		0.100	ug/L						
1,3,5-TNB	ND		0.500	ug/L						
1,3-Dinitrobenzene	ND		0.500	ug/L						
NB	ND		0.500	ug/L						
2,4,6-Trinitrotoluene	ND		0.100	ug/L						
Tetryl	ND		0.500	ug/L						
2,6-DNT	ND		0.500	ug/L						
2,4-Dinitrotoluene	ND		0.100	ug/L						
2-Nitrotoluene	ND		0.500	ug/L						
4-Nitrotoluene	ND		0.500	ug/L						
4-Amino-2,6-dinitrotoluene	ND		0.500	ug/L						
3-Nitrotoluene	ND		0.500	ug/L						
2-Amino-4,6-dinitrotoluene	ND		0.500	ug/L						
Surrogate: 1,2-Dinitrobenzene			*8.06*	*ug/L*	*10.0*		*80.6*	*70-130*		

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Quality Control Data
(Continued)

Semivolatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0064 - Explosives (Continued)										
LCS (BDI0064-BS1)					Prepared: 9/5/2023 Analyzed: 9/15/2023					
HMX	4.57		0.100	ug/L	5.00		91.3	70-130		
RDX	4.67		0.100	ug/L	5.00		93.5	70-130		
1,3,5-TNB	4.22		0.500	ug/L	5.00		84.3	70-130		
1,3-Dinitrobenzene	4.24		0.500	ug/L	5.00		84.9	70-130		
NB	4.13		0.500	ug/L	5.00		82.6	70-130		
2,4,6-Trinitrotoluene	4.32		0.100	ug/L	5.00		86.3	70-130		
Tetryl	4.34		0.500	ug/L	5.00		86.7	70-130		
2,6-DNT	4.54		0.500	ug/L	5.00		90.8	70-130		
2,4-Dinitrotoluene	4.32		0.100	ug/L	5.00		86.3	70-130		
2-Nitrotoluene	4.77		0.500	ug/L	5.00		95.5	70-130		
4-Nitrotoluene	4.53		0.500	ug/L	5.00		90.5	70-130		
4-Amino-2,6-dinitrotoluene	4.93		0.500	ug/L	5.00		98.7	70-130		
3-Nitrotoluene	5.60		0.500	ug/L	5.00		112	70-130		
2-Amino-4,6-dinitrotoluene	4.76		0.500	ug/L	5.00		95.3	70-130		
Surrogate: 1,2-Dinitrobenzene		*L4*	*5.84*	*ug/L*	*10.0*		*58.4*	*70-130*		
LCS (BDI0064-BS2)					Prepared: 9/5/2023 Analyzed: 9/15/2023					
HMX	4.62		0.100	ug/L	5.00		92.4	70-130		
RDX	4.90		0.100	ug/L	5.00		98.0	70-130		
1,3,5-TNB	4.19		0.500	ug/L	5.00		83.9	70-130		
1,3-Dinitrobenzene	4.27		0.500	ug/L	5.00		85.4	70-130		
NB	4.17		0.500	ug/L	5.00		83.3	70-130		
2,4,6-Trinitrotoluene	4.32		0.100	ug/L	5.00		86.5	70-130		
Tetryl	4.46		0.500	ug/L	5.00		89.2	70-130		
2,6-DNT	4.49		0.500	ug/L	5.00		89.9	70-130		
2,4-Dinitrotoluene	4.30		0.100	ug/L	5.00		85.9	70-130		
2-Nitrotoluene	4.82		0.500	ug/L	5.00		96.3	70-130		
4-Nitrotoluene	3.76		0.500	ug/L	5.00		75.1	70-130		
4-Amino-2,6-dinitrotoluene	4.24		0.500	ug/L	5.00		84.9	70-130		
3-Nitrotoluene	4.25		0.500	ug/L	5.00		85.0	70-130		
2-Amino-4,6-dinitrotoluene	4.27		0.500	ug/L	5.00		85.5	70-130		
Surrogate: 1,2-Dinitrobenzene		*L4*	*6.78*	*ug/L*	*10.0*		*67.8*	*70-130*		

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Quality Control Data
(Continued)

Semivolatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0064 - Explosives (Continued)										
LCS (BDI0064-BS3)					Prepared: 9/5/2023 Analyzed: 9/16/2023					
HMX	5.58		0.100	ug/L	5.00		112	70-130		
RDX	5.70		0.100	ug/L	5.00		114	70-130		
1,3,5-TNB	5.54		0.500	ug/L	5.00		111	70-130		
1,3-Dinitrobenzene	4.96		0.500	ug/L	5.00		99.1	70-130		
NB	4.73		0.500	ug/L	5.00		94.5	70-130		
2,4,6-Trinitrotoluene	5.68		0.100	ug/L	5.00		114	70-130		
Tetryl	4.04		0.500	ug/L	5.00		80.8	70-130		
2,6-DNT	4.66		0.500	ug/L	5.00		93.2	70-130		
2,4-Dinitrotoluene	4.91		0.100	ug/L	5.00		98.2	70-130		
2-Nitrotoluene	4.68		0.500	ug/L	5.00		93.6	70-130		
4-Nitrotoluene	3.60		0.500	ug/L	5.00		72.1	70-130		
4-Amino-2,6-dinitrotoluene	4.65		0.500	ug/L	5.00		93.1	70-130		
3-Nitrotoluene	4.66		0.500	ug/L	5.00		93.3	70-130		
2-Amino-4,6-dinitrotoluene	4.57		0.500	ug/L	5.00		91.3	70-130		
Surrogate: 1,2-Dinitrobenzene		*L4*	*6.76*	*ug/L*	*10.0*		*67.6*	*70-130*		
LCS Dup (BDI0064-BSD1)					Prepared: 9/5/2023 Analyzed: 9/15/2023					
HMX	4.71		0.100	ug/L	5.00		94.3	70-130	3.19	25
RDX	4.74		0.100	ug/L	5.00		94.8	70-130	1.46	25
1,3,5-TNB	4.38		0.500	ug/L	5.00		87.7	70-130	3.87	25
1,3-Dinitrobenzene	4.35		0.500	ug/L	5.00		87.0	70-130	2.56	25
NB	4.26		0.500	ug/L	5.00		85.2	70-130	3.17	25
2,4,6-Trinitrotoluene	4.43		0.100	ug/L	5.00		88.6	70-130	2.59	25
Tetryl	4.46		0.500	ug/L	5.00		89.2	70-130	2.76	25
2,6-DNT	4.42		0.500	ug/L	5.00		88.4	70-130	2.67	25
2,4-Dinitrotoluene	4.42		0.100	ug/L	5.00		88.3	70-130	2.33	25
2-Nitrotoluene	4.81		0.500	ug/L	5.00		96.3	70-130	0.811	25
4-Nitrotoluene	3.81		0.500	ug/L	5.00		76.2	70-130	17.2	25
4-Amino-2,6-dinitrotoluene	4.43		0.500	ug/L	5.00		88.6	70-130	10.8	25
3-Nitrotoluene	4.49		0.500	ug/L	5.00		89.9	70-130	21.9	25
2-Amino-4,6-dinitrotoluene	4.52		0.500	ug/L	5.00		90.4	70-130	5.31	25
Surrogate: 1,2-Dinitrobenzene		*L4*	*6.76*	*ug/L*	*10.0*		*67.6*	*70-130*		

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Quality Control Data
(Continued)

Semivolatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0064 - Explosives (Continued)										
LCS Dup (BDI0064-BSD2)					Prepared: 9/5/2023 Analyzed: 9/15/2023					
HMX	4.77		0.100	ug/L	5.00		95.4	70-130	3.18	25
RDX	5.04		0.100	ug/L	5.00		101	70-130	2.78	25
1,3,5-TNB	4.37		0.500	ug/L	5.00		87.4	70-130	4.17	25
1,3-Dinitrobenzene	4.48		0.500	ug/L	5.00		89.6	70-130	4.73	25
NB	4.73		0.500	ug/L	5.00		94.7	70-130	12.8	25
2,4,6-Trinitrotoluene	4.45		0.100	ug/L	5.00		88.9	70-130	2.79	25
Tetryl	4.30		0.500	ug/L	5.00		86.0	70-130	3.63	25
2,6-DNT	4.42		0.500	ug/L	5.00		88.5	70-130	1.57	25
2,4-Dinitrotoluene	4.44		0.100	ug/L	5.00		88.9	70-130	3.35	25
2-Nitrotoluene	4.79		0.500	ug/L	5.00		95.8	70-130	0.554	25
4-Nitrotoluene	3.75		0.500	ug/L	5.00		75.0	70-130	0.208	25
4-Amino-2,6-dinitrotoluene	4.15		0.500	ug/L	5.00		83.1	70-130	2.14	25
3-Nitrotoluene	4.16		0.500	ug/L	5.00		83.2	70-130	2.14	25
2-Amino-4,6-dinitrotoluene	4.56		0.500	ug/L	5.00		91.1	70-130	6.40	25
Surrogate: 1,2-Dinitrobenzene		*L4*	*5.94*	*ug/L*	*10.0*		*59.4*	*70-130*		
LCS Dup (BDI0064-BSD3)					Prepared: 9/5/2023 Analyzed: 9/16/2023					
HMX	5.16		0.100	ug/L	5.00		103	70-130	7.83	25
RDX	5.56		0.100	ug/L	5.00		111	70-130	2.50	25
1,3,5-TNB	5.39		0.500	ug/L	5.00		108	70-130	2.90	25
1,3-Dinitrobenzene	4.69		0.500	ug/L	5.00		93.7	70-130	5.64	25
NB	4.37		0.500	ug/L	5.00		87.4	70-130	7.89	25
2,4,6-Trinitrotoluene	5.51		0.100	ug/L	5.00		110	70-130	3.02	25
Tetryl	4.11		0.500	ug/L	5.00		82.3	70-130	1.84	25
2,6-DNT	4.66		0.500	ug/L	5.00		93.1	70-130	0.0833	25
2,4-Dinitrotoluene	4.70		0.100	ug/L	5.00		93.9	70-130	4.43	25
2-Nitrotoluene	4.58		0.500	ug/L	5.00		91.6	70-130	2.14	25
4-Nitrotoluene	3.63		0.500	ug/L	5.00		72.7	70-130	0.803	25
4-Amino-2,6-dinitrotoluene	4.64		0.500	ug/L	5.00		92.8	70-130	0.291	25
3-Nitrotoluene	4.65		0.500	ug/L	5.00		93.0	70-130	0.291	25
2-Amino-4,6-dinitrotoluene	4.30		0.500	ug/L	5.00		86.1	70-130	5.91	25
Surrogate: 1,2-Dinitrobenzene		*L4*	*5.82*	*ug/L*	*10.0*		*58.2*	*70-130*		

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Quality Control Data
(Continued)

Semivolatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0064 - Explosives (Continued)										
Matrix Spike (BDI0064-MS1)		**Source: MDI0021-01**			Prepared: 9/5/2023 Analyzed: 9/15/2023					
HMX	4.42		0.100	ug/L	5.00	ND	88.5	70-130		
RDX	4.64		0.100	ug/L	5.00	ND	92.8	70-130		
1,3,5-TNB	4.07		0.500	ug/L	5.00	ND	81.5	70-130		
1,3-Dinitrobenzene	4.18		0.500	ug/L	5.00	ND	83.6	70-130		
NB	4.01		0.500	ug/L	5.00	ND	80.1	70-130		
2,4,6-Trinitrotoluene	4.19		0.100	ug/L	5.00	ND	83.7	70-130		
Tetryl	4.37		0.500	ug/L	5.00	ND	87.5	70-130		
2,6-DNT	4.45		0.500	ug/L	5.00	ND	89.1	70-130		
2,4-Dinitrotoluene	4.19		0.100	ug/L	5.00	ND	83.9	70-130		
2-Nitrotoluene	4.72		0.500	ug/L	5.00	ND	94.4	70-130		
4-Nitrotoluene	3.90		0.500	ug/L	5.00	ND	77.9	70-130		
4-Amino-2,6-dinitrotoluene	4.25		0.500	ug/L	5.00	ND	85.0	70-130		
3-Nitrotoluene	4.64		0.500	ug/L	5.00	ND	92.8	70-130		
2-Amino-4,6-dinitrotoluene	4.35		0.500	ug/L	5.00	ND	86.9	70-130		
Surrogate: 1,2-Dinitrobenzene			*7.62*	*ug/L*	*10.0*		*76.2*	*70-130*		
Matrix Spike (BDI0064-MS2)		**Source: MDI0024-01**			Prepared: 9/5/2023 Analyzed: 9/15/2023					
HMX	6.53		0.100	ug/L	5.00	1.65	97.6	70-130		
RDX	8.84		0.100	ug/L	5.00	3.83	100	70-130		
1,3,5-TNB	4.40		0.500	ug/L	5.00	ND	87.9	70-130		
1,3-Dinitrobenzene	4.50		0.500	ug/L	5.00	ND	89.9	70-130		
NB	4.56		0.500	ug/L	5.00	ND	91.1	70-130		
2,4,6-Trinitrotoluene	4.51		0.100	ug/L	5.00	ND	90.3	70-130		
Tetryl	4.58		0.500	ug/L	5.00	ND	91.6	70-130		
2,6-DNT	4.67		0.500	ug/L	5.00	ND	93.5	70-130		
2,4-Dinitrotoluene	4.53		0.100	ug/L	5.00	ND	90.5	70-130		
2-Nitrotoluene	5.06		0.500	ug/L	5.00	ND	101	70-130		
4-Nitrotoluene	3.96		0.500	ug/L	5.00	ND	79.2	70-130		
4-Amino-2,6-dinitrotoluene	4.28		0.500	ug/L	5.00	ND	85.6	70-130		
3-Nitrotoluene	4.29		0.500	ug/L	5.00	ND	85.8	70-130		
2-Amino-4,6-dinitrotoluene	4.57		0.500	ug/L	5.00	ND	91.3	70-130		
Surrogate: 1,2-Dinitrobenzene			*8.06*	*ug/L*	*10.0*		*80.6*	*70-130*		

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Quality Control Data
(Continued)

Semivolatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0064 - Explosives (Continued)										
Matrix Spike (BDI0064-MS3)		**Source: MDI0025-01**			Prepared: 9/5/2023 Analyzed: 9/15/2023					
HMX	4.55		0.100	ug/L	5.00	ND	91.0	70-130		
RDX	4.87		0.100	ug/L	5.00	ND	97.3	70-130		
1,3,5-TNB	4.23		0.500	ug/L	5.00	ND	84.6	70-130		
1,3-Dinitrobenzene	4.22		0.500	ug/L	5.00	ND	84.3	70-130		
NB	4.12		0.500	ug/L	5.00	ND	82.4	70-130		
2,4,6-Trinitrotoluene	4.27		0.100	ug/L	5.00	ND	85.5	70-130		
Tetryl	4.23		0.500	ug/L	5.00	ND	84.6	70-130		
2,6-DNT	4.35		0.500	ug/L	5.00	ND	87.0	70-130		
2,4-Dinitrotoluene	4.32		0.100	ug/L	5.00	ND	86.3	70-130		
2-Nitrotoluene	4.67		0.500	ug/L	5.00	ND	93.5	70-130		
4-Nitrotoluene	8.59	M1	0.500	ug/L	5.00	ND	172	70-130		
4-Amino-2,6-dinitrotoluene	5.08		0.500	ug/L	5.00	ND	102	70-130		
3-Nitrotoluene	5.09		0.500	ug/L	5.00	ND	102	70-130		
2-Amino-4,6-dinitrotoluene	4.73		0.500	ug/L	5.00	ND	94.6	70-130		
Surrogate: 1,2-Dinitrobenzene			*7.18*	*ug/L*	*10.0*		*71.8*	*70-130*		
Matrix Spike (BDI0064-MS4)		**Source: MDI0036-01**			Prepared: 9/5/2023 Analyzed: 9/16/2023					
HMX	5.38		0.100	ug/L	5.00	ND	108	70-130		
RDX	5.79		0.100	ug/L	5.00	ND	116	70-130		
1,3,5-TNB	5.61		0.500	ug/L	5.00	ND	112	70-130		
1,3-Dinitrobenzene	5.04		0.500	ug/L	5.00	ND	101	70-130		
NB	4.76		0.500	ug/L	5.00	ND	95.2	70-130		
2,4,6-Trinitrotoluene	5.67		0.100	ug/L	5.00	ND	113	70-130		
Tetryl	4.08		0.500	ug/L	5.00	ND	81.6	70-130		
2,6-DNT	4.81		0.500	ug/L	5.00	ND	96.2	70-130		
2,4-Dinitrotoluene	5.00		0.100	ug/L	5.00	ND	100	70-130		
2-Nitrotoluene	4.70		0.500	ug/L	5.00	ND	94.0	70-130		
4-Nitrotoluene	3.50		0.500	ug/L	5.00	ND	70.0	70-130		
4-Amino-2,6-dinitrotoluene	4.55		0.500	ug/L	5.00	ND	91.1	70-130		
3-Nitrotoluene	4.56		0.500	ug/L	5.00	ND	91.2	70-130		
2-Amino-4,6-dinitrotoluene	4.23		0.500	ug/L	5.00	ND	84.7	70-130		
Surrogate: 1,2-Dinitrobenzene			*7.70*	*ug/L*	*10.0*		*77.0*	*70-130*		

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Quality Control Data
(Continued)

Semivolatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0064 - Explosives (Continued)										
Matrix Spike Dup (BDI0064-MSD1)		**Source: MDI0021-01**			Prepared: 9/5/2023 Analyzed: 9/15/2023					
HMX	4.54		0.100	ug/L	5.00	ND	90.8	70-130	2.62	25
RDX	4.76		0.100	ug/L	5.00	ND	95.3	70-130	2.59	25
1,3,5-TNB	4.23		0.500	ug/L	5.00	ND	84.6	70-130	3.76	25
1,3-Dinitrobenzene	4.26		0.500	ug/L	5.00	ND	85.2	70-130	1.95	25
NB	4.20		0.500	ug/L	5.00	ND	84.0	70-130	4.78	25
2,4,6-Trinitrotoluene	4.30		0.100	ug/L	5.00	ND	86.1	70-130	2.76	25
Tetryl	4.39		0.500	ug/L	5.00	ND	87.7	70-130	0.321	25
2,6-DNT	4.41		0.500	ug/L	5.00	ND	88.3	70-130	0.881	25
2,4-Dinitrotoluene	4.26		0.100	ug/L	5.00	ND	85.3	70-130	1.64	25
2-Nitrotoluene	4.76		0.500	ug/L	5.00	ND	95.3	70-130	0.915	25
4-Nitrotoluene	4.42		0.500	ug/L	5.00	ND	88.5	70-130	12.7	25
4-Amino-2,6-dinitrotoluene	4.50		0.500	ug/L	5.00	ND	90.0	70-130	5.73	25
3-Nitrotoluene	5.44		0.500	ug/L	5.00	ND	109	70-130	15.9	25
2-Amino-4,6-dinitrotoluene	4.45		0.500	ug/L	5.00	ND	88.9	70-130	2.29	25
Surrogate: 1,2-Dinitrobenzene			*8.15*	*ug/L*	*10.0*		*81.5*	*70-130*		
Matrix Spike Dup (BDI0064-MSD2)		**Source: MDI0024-01**			Prepared: 9/5/2023 Analyzed: 9/15/2023					
HMX	6.55		0.100	ug/L	5.00	1.65	98.0	70-130	0.299	25
RDX	8.88		0.100	ug/L	5.00	3.83	101	70-130	0.456	25
1,3,5-TNB	4.30		0.500	ug/L	5.00	ND	85.9	70-130	2.31	25
1,3-Dinitrobenzene	4.41		0.500	ug/L	5.00	ND	88.2	70-130	1.98	25
NB	4.37		0.500	ug/L	5.00	ND	87.4	70-130	4.15	25
2,4,6-Trinitrotoluene	4.45		0.100	ug/L	5.00	ND	89.1	70-130	1.32	25
Tetryl	4.79		0.500	ug/L	5.00	ND	95.8	70-130	4.52	25
2,6-DNT	4.58		0.500	ug/L	5.00	ND	91.6	70-130	2.03	25
2,4-Dinitrotoluene	4.44		0.100	ug/L	5.00	ND	88.7	70-130	2.00	25
2-Nitrotoluene	4.82		0.500	ug/L	5.00	ND	96.4	70-130	4.90	25
4-Nitrotoluene	4.54		0.500	ug/L	5.00	ND	90.9	70-130	13.8	25
4-Amino-2,6-dinitrotoluene	4.59		0.500	ug/L	5.00	ND	91.7	70-130	6.87	25
3-Nitrotoluene	4.60		0.500	ug/L	5.00	ND	91.9	70-130	6.87	25
2-Amino-4,6-dinitrotoluene	4.39		0.500	ug/L	5.00	ND	87.9	70-130	3.83	25
Surrogate: 1,2-Dinitrobenzene			*7.69*	*ug/L*	*10.0*		*76.9*	*70-130*		

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Quality Control Data
(Continued)

Semivolatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0064 - Explosives (Continued)										
Matrix Spike Dup (BDI0064-MSD3)		**Source: MDI0025-01**			Prepared: 9/5/2023 Analyzed: 9/15/2023					
HMX	4.49		0.100	ug/L	5.00	ND	89.9	70-130	1.17	25
RDX	4.88		0.100	ug/L	5.00	ND	97.7	70-130	0.385	25
1,3,5-TNB	4.18		0.500	ug/L	5.00	ND	83.6	70-130	1.23	25
1,3-Dinitrobenzene	4.20		0.500	ug/L	5.00	ND	84.0	70-130	0.363	25
NB	4.03		0.500	ug/L	5.00	ND	80.6	70-130	2.15	25
2,4,6-Trinitrotoluene	4.26		0.100	ug/L	5.00	ND	85.1	70-130	0.453	25
Tetryl	4.37		0.500	ug/L	5.00	ND	87.4	70-130	3.31	25
2,6-DNT	4.56		0.500	ug/L	5.00	ND	91.3	70-130	4.74	25
2,4-Dinitrotoluene	4.30		0.100	ug/L	5.00	ND	86.1	70-130	0.290	25
2-Nitrotoluene	4.90		0.500	ug/L	5.00	ND	98.0	70-130	4.72	25
4-Nitrotoluene	7.99	M1	0.500	ug/L	5.00	ND	160	70-130	7.30	25
4-Amino-2,6-dinitrotoluene	4.59		0.500	ug/L	5.00	ND	91.9	70-130	10.1	25
3-Nitrotoluene	4.60		0.500	ug/L	5.00	ND	92.1	70-130	10.1	25
2-Amino-4,6-dinitrotoluene	4.27		0.500	ug/L	5.00	ND	85.4	70-130	10.1	25
Surrogate: 1,2-Dinitrobenzene			*7.02*	*ug/L*	*10.0*		*70.2*	*70-130*		
Matrix Spike Dup (BDI0064-MSD4)		**Source: MDI0036-01**			Prepared: 9/5/2023 Analyzed: 9/16/2023					
HMX	5.58		0.100	ug/L	5.00	ND	112	70-130	3.74	25
RDX	5.90		0.100	ug/L	5.00	ND	118	70-130	1.87	25
1,3,5-TNB	5.70		0.500	ug/L	5.00	ND	114	70-130	1.57	25
1,3-Dinitrobenzene	4.99		0.500	ug/L	5.00	ND	99.9	70-130	0.935	25
NB	4.53		0.500	ug/L	5.00	ND	90.5	70-130	4.97	25
2,4,6-Trinitrotoluene	5.80		0.100	ug/L	5.00	ND	116	70-130	2.21	25
Tetryl	4.05		0.500	ug/L	5.00	ND	81.0	70-130	0.763	25
2,6-DNT	4.65		0.500	ug/L	5.00	ND	93.0	70-130	3.40	25
2,4-Dinitrotoluene	4.98		0.100	ug/L	5.00	ND	99.6	70-130	0.456	25
2-Nitrotoluene	4.55		0.500	ug/L	5.00	ND	91.1	70-130	3.17	25
4-Nitrotoluene	3.36	M12	0.500	ug/L	5.00	ND	67.3	70-130	4.06	25
4-Amino-2,6-dinitrotoluene	4.68		0.500	ug/L	5.00	ND	93.5	70-130	2.69	25
3-Nitrotoluene	4.69		0.500	ug/L	5.00	ND	93.7	70-130	2.69	25
2-Amino-4,6-dinitrotoluene	4.24		0.500	ug/L	5.00	ND	84.8	70-130	0.131	25
Surrogate: 1,2-Dinitrobenzene			*7.97*	*ug/L*	*10.0*		*79.7*	*70-130*		

Quality Control Data
(Continued)

Volatiles

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0072 - VOC										
Blank (BDI0072-BLK1)					Prepared & Analyzed: 9/5/2023					
Dibromochloromethane	ND		0.500	ug/L						
Carbon Tetrachloride	ND		0.500	ug/L						
Methyl isobutyl ketone (MIBK)	ND		2.50	ug/L						
m/p Xylenes (MCL for total)	ND		0.500	ug/L						
Isopropylbenzene	ND		0.500	ug/L						
Hexachlorobutadiene	ND		0.500	ug/L						
Ethylbenzene	ND		0.500	ug/L						
Naphthalene	ND		0.500	ug/L						

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Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0072 - VOC (Continued)										
Blank (BDI0072-BLK1)					Prepared & Analyzed: 9/5/2023					
Dibromomethane	ND		0.500	ug/L						
n-Butylbenzene	ND		0.500	ug/L						
cis-1,3-Dichloropropene	ND		0.500	ug/L						
cis-1,2-Dichloroethylene	ND		0.500	ug/L						
Chloromethane	ND		0.500	ug/L						
Chloroform	ND		0.500	ug/L						
Chloroethane	ND		0.500	ug/L						
Chlorobenzene (Monochlorobenzene)	ND		0.500	ug/L						
Dichlorodifluoromethane	ND		0.500	ug/L						
Tetrachloroethylene	ND		0.500	ug/L						
1,1,1-Trichloroethane	ND		0.500	ug/L						
Vinyl Chloride	ND		0.500	ug/L						
Trichloroflouromethane	ND		0.500	ug/L						
Trichloroethene	ND		0.500	ug/L						
trans-1,3-Dichloropropene	ND		0.500	ug/L						
trans-1,2 Dichloroethylene	ND		0.500	ug/L						
methyl-t-butyl ether (MTBE)	ND		0.500	ug/L						
Toluene	ND		0.500	ug/L						
Methyl ethyl ketone (MEK)	ND		2.50	ug/L						
tert-Butylbenzene	ND		0.500	ug/L						
Styrene	ND		0.500	ug/L						
sec-Butylbenzene	ND		0.500	ug/L						
p-isopropyltoluene	ND		0.500	ug/L						
o-Xylene (MCL for total)	ND		0.500	ug/L						
n-Propylbenzene	ND		0.500	ug/L						
1,2,3-Trichloropropane	ND		0.500	ug/L						
1,2-Dichloropropane	ND		0.500	ug/L						
1,2-Dichloroethane	ND		0.500	ug/L						
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	ND		0.500	ug/L						
EDB (screening)	ND		0.500	ug/L						
DBCP (screening)	ND		0.500	ug/L						
1,3,5-Trimethylbenzene	ND		0.500	ug/L						
1,2,4-Trichlorobenzene	ND		0.500	ug/L						
1,1-Dichloroethane	ND		0.500	ug/L						
1,2,3-Trichlorobenzene	ND		0.500	ug/L						
1,1-Dichloropropene	ND		0.500	ug/L						
1,1-Dichloroethylene	ND		0.500	ug/L						
Carbon disulfide	ND		0.500	ug/L						
1,1,2-Trichlorethane	ND		0.500	ug/L						
Methylene Chloride (Dichloromethane)	ND		2.50	ug/L						
1,1,1,2-Tetrachloroethane	ND		0.500	ug/L						
1,2,4-Trimethylbenzene	ND		0.500	ug/L						
Bromodichloromethane	ND		0.500	ug/L						
1,1,2,2-Tetrachloroethane	ND		0.500	ug/L						
m-Dichlorobenzene	ND		0.500	ug/L						
Bromomethane	ND		0.500	ug/L						
Bromoform	ND		0.500	ug/L						
Bromochloromethane	ND		0.500	ug/L						
Bromobenzene	ND		0.500	ug/L						
Benzene	ND		0.500	ug/L						

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Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0072 - VOC (Continued)										
Blank (BDI0072-BLK1)					Prepared & Analyzed: 9/5/2023					
Acrylonitrile	ND		0.500	ug/L						
Acetone	ND		2.50	ug/L						
2-hexanone	ND		2.50	ug/L						
o-Chlorotoluene	ND		0.500	ug/L						
2,2-Dichloropropane	ND		0.500	ug/L						
1,4-Dichlorobenzene (para-Dichlorobenzene)	ND		0.500	ug/L						
p-Chlorotoluene	ND		0.500	ug/L						
1,3-Dichloropropane	ND		0.500	ug/L						
Surrogate: Toluene-d8			*19.5*	*ug/L*	*20.0*		*97.6*	*70-130*		
Surrogate: 4-Bromofluorobenzene			*19.1*	*ug/L*	*20.0*		*95.5*	*70-130*		
Surrogate: 1,2-Dichlorobenzene-d4			*20.0*	*ug/L*	*20.0*		*100*	*70-130*		
LCS (BDI0072-BS1)					Prepared & Analyzed: 9/5/2023					
cis-1,2-Dichloroethylene	10.6		0.500	ug/L	10.0		106	80-120		
Methyl ethyl ketone (MEK)	10.2		2.50	ug/L	10.0		102	55-154		
m/p Xylenes (MCL for total)	23.0		0.500	ug/L	20.0		115	80-120		
Isopropylbenzene	12.0		0.500	ug/L	10.0		120	80-120		
Hexachlorobutadiene	11.0		0.500	ug/L	10.0		110	80-120		
Ethylbenzene	11.1		0.500	ug/L	10.0		111	80-120		
Dichlorodifluoromethane	11.2		0.500	ug/L	10.0		112	57-130		
Carbon Tetrachloride	10.6		0.500	ug/L	10.0		106	80-120		
Dibromomethane	10.2		0.500	ug/L	10.0		102	80-120		
Chloroethane	8.34		0.500	ug/L	10.0		83.4	78-120		
cis-1,3-Dichloropropene	9.84		0.500	ug/L	10.0		98.4	79-123		
Chloroform	10.3		0.500	ug/L	10.0		103	80-120		
Chlorobenzene (Monochlorobenzene)	9.40		0.500	ug/L	10.0		94.0	80-120		
Methyl isobutyl ketone (MIBK)	9.62		2.50	ug/L	10.0		96.2	70-136		
Tetrachloroethylene	10.8		0.500	ug/L	10.0		108	80-120		
Dibromochloromethane	9.95		0.500	ug/L	10.0		99.5	80-121		
tert-Butylbenzene	11.9		0.500	ug/L	10.0		119	80-120		
Carbon disulfide	10.1		0.500	ug/L	10.0		101	80-120		
Trichloroethene	10.5		0.500	ug/L	10.0		105	80-120		
Trichloroflouromethane	10.5		0.500	ug/L	10.0		105	61-140		
trans-1,3-Dichloropropene	9.92		0.500	ug/L	10.0		99.2	69-130		
trans-1,2 Dichloroethylene	10.4		0.500	ug/L	10.0		104	80-120		
Styrene	11.9		0.500	ug/L	10.0		119	80-120		
Toluene	10.3		0.500	ug/L	10.0		103	80-120		
methyl-t-butyl ether (MTBE)	10.2		0.500	ug/L	10.0		102	71-130		
sec-Butylbenzene	12.3	L5	0.500	ug/L	10.0		123	80-120		
p-isopropyltoluene	11.5		0.500	ug/L	10.0		115	80-120		
o-Xylene (MCL for total)	11.5		0.500	ug/L	10.0		115	80-120		
n-Propylbenzene	11.7		0.500	ug/L	10.0		117	80-120		
n-Butylbenzene	11.1		0.500	ug/L	10.0		111	74-122		
Naphthalene	10.1		0.500	ug/L	10.0		101	66-133		
Vinyl Chloride	9.63		0.500	ug/L	10.0		96.3	75-120		
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	9.87		0.500	ug/L	10.0		98.7	80-120		
EDB (screening)	10.5		0.500	ug/L	10.0		105	70-130		
DBCP (screening)	9.38		0.500	ug/L	10.0		93.8	71-128		
1,2,4-Trimethylbenzene	12.0		0.500	ug/L	10.0		120	80-120		
1,2,4-Trichlorobenzene	10.9		0.500	ug/L	10.0		109	80-120		

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Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0072 - VOC (Continued)										
LCS (BDI0072-BS1)					Prepared & Analyzed: 9/5/2023					
1,2,3-Trichlorobenzene	11.0		0.500	ug/L	10.0		110	78-120		
1,2,3-Trichloropropane	10.1		0.500	ug/L	10.0		101	80-120		
1,1-Dichloroethylene	10.6		0.500	ug/L	10.0		106	70-129		
1,1-Dichloroethane	9.96		0.500	ug/L	10.0		99.6	80-120		
1,1,2-Trichlorethane	9.98		0.500	ug/L	10.0		99.8	80-120		
1,1,2,2-Tetrachloroethane	9.75		0.500	ug/L	10.0		97.5	77-123		
1,1,1-Trichloroethane	10.3		0.500	ug/L	10.0		103	80-120		
Bromoform	9.77		0.500	ug/L	10.0		97.7	68-133		
1,1,1,2-Tetrachloroethane	10.0		0.500	ug/L	10.0		100	80-120		
Acrylonitrile	10.1		0.500	ug/L	10.0		101	73-131		
Bromodichloromethane	9.58		0.500	ug/L	10.0		95.8	80-120		
1,1-Dichloropropene	11.4		0.500	ug/L	10.0		114	80-120		
1,2-Dichloroethane	9.50		0.500	ug/L	10.0		95.0	80-120		
Bromochloromethane	10.4		0.500	ug/L	10.0		104	80-120		
Benzene	10.3		0.500	ug/L	10.0		103	80-120		
p-Chlorotoluene	11.4		0.500	ug/L	10.0		114	80-124		
m-Dichlorobenzene	9.94		0.500	ug/L	10.0		99.4	80-120		
1,2-Dichloropropane	10.4		0.500	ug/L	10.0		104	80-120		
Bromobenzene	10.3		0.500	ug/L	10.0		103	80-120		
1,3,5-Trimethylbenzene	12.0		0.500	ug/L	10.0		120	80-121		
2-hexanone	9.41		2.50	ug/L	10.0		94.1	65-140		
1,3-Dichloropropane	10.5		0.500	ug/L	10.0		105	80-120		
1,4-Dichlorobenzene (para-Dichlorobenzene)	9.94		0.500	ug/L	10.0		99.4	80-120		
2,2-Dichloropropane	10.2		0.500	ug/L	10.0		102	80-120		
o-Chlorotoluene	12.0		0.500	ug/L	10.0		120	80-120		
Surrogate: Toluene-d8			*20.1*	*ug/L*	*20.0*		*101*	*70-130*		
Surrogate: 4-Bromofluorobenzene			*20.4*	*ug/L*	*20.0*		*102*	*70-130*		
Surrogate: 1,2-Dichlorobenzene-d4			*20.0*	*ug/L*	*20.0*		*100*	*70-130*		

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Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0072 - VOC (Continued)										
Matrix Spike (BDI0072-MS1)	**Source: MDI0021-01**				Prepared & Analyzed: 9/5/2023					
Ethylbenzene	9.49		0.500	ug/L	10.0	ND	94.9	70-130		
Carbon Tetrachloride	9.68		0.500	ug/L	10.0	ND	96.8	70-130		
Methyl ethyl ketone (MEK)	8.68		2.50	ug/L	10.0	ND	86.8	47-165		
m/p Xylenes (MCL for total)	18.4		0.500	ug/L	20.0	ND	92.0	57-130		
Isopropylbenzene	9.30		0.500	ug/L	10.0	ND	93.0	70-130		
Hexachlorobutadiene	9.44		0.500	ug/L	10.0	ND	94.4	70-130		
methyl-t-butyl ether (MTBE)	7.66		0.500	ug/L	10.0	ND	76.6	57-138		
Dichlorodifluoromethane	8.87		0.500	ug/L	10.0	ND	88.7	57-136		
Dibromomethane	9.39		0.500	ug/L	10.0	ND	93.9	70-130		
Dibromochloromethane	9.01		0.500	ug/L	10.0	ND	90.1	70-130		
cis-1,3-Dichloropropene	7.87		0.500	ug/L	10.0	ND	78.7	74-124		
cis-1,2-Dichloroethylene	8.92		0.500	ug/L	10.0	ND	89.2	70-130		
Chloroform	9.81		0.500	ug/L	10.0	ND	98.1	70-130		
Chlorobenzene (Monochlorobenzene)	9.13		0.500	ug/L	10.0	ND	91.3	70-130		
Chloroethane	11.2		0.500	ug/L	10.0	ND	112	68-138		
Tetrachloroethylene	9.28		0.500	ug/L	10.0	ND	92.8	70-130		
Methyl isobutyl ketone (MIBK)	8.45		2.50	ug/L	10.0	ND	84.5	53-167		
Vinyl Chloride	10.2		0.500	ug/L	10.0	ND	102	70-130		
Carbon disulfide	9.53		0.500	ug/L	10.0	ND	95.3	70-130		
Trichloroethene	8.79		0.500	ug/L	10.0	ND	87.9	70-130		
trans-1,3-Dichloropropene	8.07		0.500	ug/L	10.0	ND	80.7	61-131		
trans-1,2 Dichloroethylene	9.44		0.500	ug/L	10.0	ND	94.4	70-130		
Trichloroflouromethane	9.86		0.500	ug/L	10.0	ND	98.6	50-154		
Toluene	9.59		0.500	ug/L	10.0	ND	95.9	70-130		
n-Butylbenzene	9.46		0.500	ug/L	10.0	ND	94.6	67-130		
tert-Butylbenzene	9.70		0.500	ug/L	10.0	ND	97.0	70-130		
Styrene	10.1		0.500	ug/L	10.0	ND	101	30-130		
sec-Butylbenzene	10.2		0.500	ug/L	10.0	ND	102	70-130		
p-isopropyltoluene	9.84		0.500	ug/L	10.0	ND	98.4	70-130		
o-Xylene (MCL for total)	9.19		0.500	ug/L	10.0	ND	91.9	62-127		
n-Propylbenzene	10.3		0.500	ug/L	10.0	ND	103	70-130		
1,1-Dichloropropene	9.87		0.500	ug/L	10.0	ND	98.7	70-130		
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	9.09		0.500	ug/L	10.0	ND	90.9	70-130		
EDB (screening)	9.33		0.500	ug/L	10.0	ND	93.3	70-130		
DBCP (screening)	8.02		0.500	ug/L	10.0	ND	80.2	55-146		
1,2,4-Trimethylbenzene	10.4		0.500	ug/L	10.0	ND	104	40-140		
1,1,1,2-Tetrachloroethane	9.41		0.500	ug/L	10.0	ND	94.1	70-130		
Bromoform	8.77		0.500	ug/L	10.0	ND	87.7	59-140		
1,2,4-Trichlorobenzene	7.41		0.500	ug/L	10.0	ND	74.1	70-130		
1,1-Dichloroethylene	8.68		0.500	ug/L	10.0	ND	86.8	70-130		
1,1-Dichloroethane	9.26		0.500	ug/L	10.0	ND	92.6	70-130		
1,1,2-Trichlorethane	9.53		0.500	ug/L	10.0	ND	95.3	70-130		
1,1,2,2-Tetrachloroethane	10.0		0.500	ug/L	10.0	ND	100	67-136		
1,1,1-Trichloroethane	9.50		0.500	ug/L	10.0	ND	95.0	70-130		
Naphthalene	7.22		0.500	ug/L	10.0	ND	72.2	56-147		
1,2,3-Trichloropropane	9.63		0.500	ug/L	10.0	ND	96.3	69-137		
p-Chlorotoluene	10.5		0.500	ug/L	10.0	ND	105	70-130		
Bromodichloromethane	9.19		0.500	ug/L	10.0	ND	91.9	70-130		
1,2,3-Trichlorobenzene	8.42		0.500	ug/L	10.0	ND	84.2	67-134		
1,2-Dichloroethane	9.54		0.500	ug/L	10.0	ND	95.4	70-130		

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Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0072 - VOC (Continued)										
Matrix Spike (BDI0072-MS1)	**Source: MDI0021-01**				Prepared & Analyzed: 9/5/2023					
Bromobenzene	9.31		0.500	ug/L	10.0	ND	93.1	70-130		
Acrylonitrile	9.38		0.500	ug/L	10.0	ND	93.8	65-137		
Bromochloromethane	9.53		0.500	ug/L	10.0	ND	95.3	70-130		
2-hexanone	8.24		2.50	ug/L	10.0	ND	82.4	43-175		
o-Chlorotoluene	10.3		0.500	ug/L	10.0	ND	103	70-130		
2,2-Dichloropropane	8.60		0.500	ug/L	10.0	ND	86.0	70-130		
1,4-Dichlorobenzene (para-Dichlorobenzene)	9.02		0.500	ug/L	10.0	ND	90.2	70-130		
1,3-Dichloropropane	9.46		0.500	ug/L	10.0	ND	94.6	70-130		
m-Dichlorobenzene	9.02		0.500	ug/L	10.0	ND	90.2	70-130		
1,3,5-Trimethylbenzene	10.4		0.500	ug/L	10.0	ND	104	40-140		
1,2-Dichloropropane	9.20		0.500	ug/L	10.0	ND	92.0	70-130		
Benzene	9.50		0.500	ug/L	10.0	ND	95.0	70-130		
Surrogate: Toluene-d8			*20.8*	*ug/L*	*20.0*		*104*	*70-130*		
Surrogate: 4-Bromofluorobenzene			*21.0*	*ug/L*	*20.0*		*105*	*70-130*		
Surrogate: 1,2-Dichlorobenzene-d4			*20.0*	*ug/L*	*20.0*		*100*	*70-130*		
Matrix Spike Dup (BDI0072-MSD1)	**Source: MDI0021-01**				Prepared & Analyzed: 9/5/2023					
Ethylbenzene	9.90		0.500	ug/L	10.0	ND	99.0	70-130	4.23	20
Methyl isobutyl ketone (MIBK)	8.76		2.50	ug/L	10.0	ND	87.6	53-167	3.60	20
Methyl ethyl ketone (MEK)	9.06		2.50	ug/L	10.0	ND	90.6	47-165	4.28	20
m/p Xylenes (MCL for total)	19.6		0.500	ug/L	20.0	ND	98.1	57-130	6.42	20
Isopropylbenzene	9.96		0.500	ug/L	10.0	ND	99.6	70-130	6.85	20
Hexachlorobutadiene	10.4		0.500	ug/L	10.0	ND	104	70-130	9.68	20
Dichlorodifluoromethane	9.44		0.500	ug/L	10.0	ND	94.4	57-136	6.23	20
Dibromomethane	9.55		0.500	ug/L	10.0	ND	95.5	70-130	1.69	20
Dibromochloromethane	8.95		0.500	ug/L	10.0	ND	89.5	70-130	0.668	20
cis-1,3-Dichloropropene	8.44		0.500	ug/L	10.0	ND	84.4	74-124	6.99	20
cis-1,2-Dichloroethylene	9.64		0.500	ug/L	10.0	ND	96.4	70-130	7.76	20
Chloroform	10.0		0.500	ug/L	10.0	ND	100	70-130	2.22	20
Chlorobenzene (Monochlorobenzene)	9.02		0.500	ug/L	10.0	ND	90.2	70-130	1.21	20
Chloroethane	11.9		0.500	ug/L	10.0	ND	119	68-138	6.07	20
tert-Butylbenzene	10.3		0.500	ug/L	10.0	ND	103	70-130	6.10	20
1,2-Dichloroethane	9.49		0.500	ug/L	10.0	ND	94.9	70-130	0.525	20
Trichloroflouromethane	10.4		0.500	ug/L	10.0	ND	104	50-154	4.95	20
Carbon Tetrachloride	10.0		0.500	ug/L	10.0	ND	100	70-130	3.35	20
trans-1,3-Dichloropropene	8.46		0.500	ug/L	10.0	ND	84.6	61-131	4.72	20
trans-1,2 Dichloroethylene	10.0		0.500	ug/L	10.0	ND	100	70-130	5.76	20
Trichloroethene	9.56		0.500	ug/L	10.0	ND	95.6	70-130	8.39	20
Tetrachloroethylene	9.68		0.500	ug/L	10.0	ND	96.8	70-130	4.22	20
methyl-t-butyl ether (MTBE)	8.29		0.500	ug/L	10.0	ND	82.9	57-138	7.90	20
Styrene	10.3		0.500	ug/L	10.0	ND	103	30-130	2.06	20
sec-Butylbenzene	10.7		0.500	ug/L	10.0	ND	107	70-130	5.27	20
p-isopropyltoluene	10.2		0.500	ug/L	10.0	ND	102	70-130	3.49	20
o-Xylene (MCL for total)	9.80		0.500	ug/L	10.0	ND	98.0	62-127	6.42	20
n-Propylbenzene	10.6		0.500	ug/L	10.0	ND	106	70-130	2.88	20
n-Butylbenzene	10.4		0.500	ug/L	10.0	ND	104	67-130	9.47	20
Naphthalene	8.15		0.500	ug/L	10.0	ND	81.5	56-147	12.1	20
Toluene	10.0		0.500	ug/L	10.0	ND	100	70-130	4.29	20
1,1-Dichloroethylene	9.64		0.500	ug/L	10.0	ND	96.4	70-130	10.5	20
EDB (screening)	9.49		0.500	ug/L	10.0	ND	94.9	70-130	1.70	20

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Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0072 - VOC (Continued)										
Matrix Spike Dup (BDI0072-MSD1)	**Source: MDI0021-01**				Prepared & Analyzed: 9/5/2023					
DBCP (screening)	8.61		0.500	ug/L	10.0	ND	86.1	55-146	7.10	20
1,2,4-Trimethylbenzene	10.7		0.500	ug/L	10.0	ND	107	40-140	2.65	20
1,2,4-Trichlorobenzene	8.39		0.500	ug/L	10.0	ND	83.9	70-130	12.4	20
1,2,3-Trichloropropane	9.50		0.500	ug/L	10.0	ND	95.0	69-137	1.36	20
1,3,5-Trimethylbenzene	10.7		0.500	ug/L	10.0	ND	107	40-140	2.65	20
1,1-Dichloropropene	10.5		0.500	ug/L	10.0	ND	105	70-130	6.57	20
1,2-Dichloropropane	9.79		0.500	ug/L	10.0	ND	97.9	70-130	6.21	20
1,1-Dichloroethane	9.80		0.500	ug/L	10.0	ND	98.0	70-130	5.67	20
1,1,2-Trichlorethane	9.38		0.500	ug/L	10.0	ND	93.8	70-130	1.59	20
1,1,2,2-Tetrachloroethane	9.71		0.500	ug/L	10.0	ND	97.1	67-136	3.04	20
1,1,1-Trichloroethane	9.94		0.500	ug/L	10.0	ND	99.4	70-130	4.53	20
1,1,1,2-Tetrachloroethane	9.49		0.500	ug/L	10.0	ND	94.9	70-130	0.847	20
Vinyl Chloride	10.7		0.500	ug/L	10.0	ND	107	70-130	4.40	20
1,2,3-Trichlorobenzene	9.29		0.500	ug/L	10.0	ND	92.9	67-134	9.82	20
2-hexanone	8.39		2.50	ug/L	10.0	ND	83.9	43-175	1.80	20
Bromoform	8.62		0.500	ug/L	10.0	ND	86.2	59-140	1.73	20
Bromodichloromethane	9.40		0.500	ug/L	10.0	ND	94.0	70-130	2.26	20
Bromochloromethane	9.65		0.500	ug/L	10.0	ND	96.5	70-130	1.25	20
Bromobenzene	9.39		0.500	ug/L	10.0	ND	93.9	70-130	0.856	20
Benzene	9.98		0.500	ug/L	10.0	ND	99.8	70-130	4.93	20
Acrylonitrile	9.54		0.500	ug/L	10.0	ND	95.4	65-137	1.69	20
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	9.46		0.500	ug/L	10.0	ND	94.6	70-130	3.99	20
o-Chlorotoluene	10.6		0.500	ug/L	10.0	ND	106	70-130	2.98	20
2,2-Dichloropropane	9.32		0.500	ug/L	10.0	ND	93.2	70-130	8.04	20
1,4-Dichlorobenzene (para-Dichlorobenzene)	9.51		0.500	ug/L	10.0	ND	95.1	70-130	5.29	20
1,3-Dichloropropane	9.58		0.500	ug/L	10.0	ND	95.8	70-130	1.26	20
m-Dichlorobenzene	9.51		0.500	ug/L	10.0	ND	95.1	70-130	5.29	20
Carbon disulfide	10.1		0.500	ug/L	10.0	ND	101	70-130	5.81	20
p-Chlorotoluene	10.6		0.500	ug/L	10.0	ND	106	70-130	1.71	20
Surrogate: Toluene-d8			*20.5*	*ug/L*	*20.0*		*103*	*70-130*		
Surrogate: 4-Bromofluorobenzene			*20.4*	*ug/L*	*20.0*		*102*	*70-130*		
Surrogate: 1,2-Dichlorobenzene-d4			*20.0*	*ug/L*	*20.0*		*100*	*70-130*		

ANATEK LABS

Chain of Custody Record

Anatek Labs, Inc.
1282 Alturas Drive, Moscow ID 83843 (208) 883-2839
504 E Sprague Ste D, Spokane WA 99202 (509) 838-3999

MDI0021

Due: 09/14/23

Company Name: PBS Engineering and Environmental	Project Manager: Scott Braunsten
Address: 4412 S Corbett Ave	Project Name & #: Camp Bonneville, 76151.012
City: Portland State: OR Zip: 97239	Purchase Order #:
Phone: 503-248-1939	Sampler Name & Phone: S.Eckes 845-264-9692
Email Address(es): scott.braunsten@pbsusa.com, samantha.eckes@pbsusa.com	

Turn Around Time & Reporting

Please refer to c
www.ana

✓ Normal
__ Next Day*
__ 2nd Day*
__ Other*_____

List Analyses Requested

Lab ID	Sample Identification	Sampling Date/Time	Matrix	Preservative:	# of Containers	Sample Volume	VOCs by 8260B	Explosives by 8330	Perchlorate by 6850
	03Q23RangeRoadW	8/29/23 1000	H2O		14		X	X	X
	03Q23LCMW09SW	1050			6				
	03Q23LCMW09DW	930							
	03Q23LCMW02DW	1335							
	03Q23LCMW02SW	1400							
	03Q23LCMW03SW	1500							
	03Q23LCMW03DW	1530							

Note Special Instructions/Comments

Please send login confirmation

Please provide EQuIS EDD + WA EIM
6 VOC (Road W) only

Inspection Checklist

Received Intact?	Y	N
Labels & Chains Agree?	Y	N
Containers Sealed?	Y	N
No VOC Head Space?	Y	N
Cooler?	Y	N
Ice/Ice Packs Present?	Y	N

Temperature (°C):_____
Number of Containers:_____
Shipped Via:_____
Preservative:_____
Date & Time:_____
Inspected By:_____

	Printed Name	Signature	Company	Date	Time
Relinquished by	S. Eckes		PBS	8/29/23	1710
Received by	SW SW			8/30/23	12:24
Relinquished by					
Received by					
Relinquished by					
Received by					

Samples submitted to Anatek Labs may be subcontacted to other accredited labs if necessary. This message serves as notice of this possibility. Subcontracted analyses will be clearly noted on the analytical report.

Anatek Labs, Inc.

Sample Receipt and Preservation Form

Client Name: PBS

TAT: (Normal) RUSH: _____ days

Samples Received From: (FedEx) UPS USPS Client Courier Other: _____

Custody Seal on Cooler/Box: Yes (No) Custody Seals Intact: Yes No (N/A)

Number of Coolers/Boxes: 3 Type of Ice: (Wet Ice) Ice Packs Dry Ice None

Packing Material: (Bubble Wrap) Bags Foam/Peanuts Paper None Other: _____

Cooler Temp As Read (°C): 1.1°C Cooler Temp Corrected (°C): — Thermometer Used: IR-S

Samples Received Intact?	(Yes)	No	N/A	
Chain of Custody Present/Complete?	(Yes)	No	N/A	
Labels and Chains Agree?	Yes	(No)	N/A	
Samples Received Within Hold Time?	(Yes)	No	N/A	
Correct Containers Received?	(Yes)	No	N/A	
Anatek Bottles Used?	Yes	No	Unknown	
Total Number of Sample Bottles Received: ~~50~~ 42 TB 49 TB 8/30/23				
Samples Properly Preserved?	(Yes)	No	N/A	
If No, record preservation and pH-after details 9/1/23				
VOC Vials Free of Headspace (<6mm)?	(Yes)	No	N/A	
VOC Trip Blanks Present?	(Yes)	No	N/A	

Comments:

0323 Range Road W
VOC only (missing 8330, Per)

Initial pH:	pH Paper ID:
<2 or	

Record preservatives (and lot numbers, if known) for containers below:

644 HCl 8260 x 24 6L explosives x6
6L x12 explosives P125 perclorates
P125 x 6

Notes, comments, etc. (also use this space if contacting the client - record names and date/time)

email about Missing samples (delayed cooler)
9/1/23 recived missing samples TB 5.8°C

Received/Inspected By: SW Date/Time: 8/30/23 12:24

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Client:	PBS Engineering - Portland	Work Order:	MDI0022
Address:	4412 SW Corbett Ave	Project:	Camp Bonneville, 76151.012
	Portland, OR 97239	Reported:	10/20/2023 14:06
Attn:	Scott Braunsten		

Analytical Results Report

Sample Location:	03Q23L4MW03AW		
Lab/Sample Number:	MDI0022-01	Collect Date:	08/31/23 11:15
Date Received:	09/01/23 13:44	Collected By:	
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Perchlorate	20.6	ug/L	0.500	9/15/23 17:58	GPB	EPA 6850	
Semivolatiles							
1,3,5-TNB	ND	ug/L	0.500	9/15/23 9:46	MER	EPA 8330B	
1,3-Dinitrobenzene	ND	ug/L	0.500	9/15/23 9:46	MER	EPA 8330B	
2,4,6-Trinitrotoluene	ND	ug/L	0.100	9/15/23 9:46	MER	EPA 8330B	
2,4-Dinitrotoluene	ND	ug/L	0.100	9/15/23 9:46	MER	EPA 8330B	
2,6-DNT	ND	ug/L	0.500	9/15/23 9:46	MER	EPA 8330B	
2-Amino-4,6-dinitrotoluene	ND	ug/L	0.500	9/15/23 9:46	MER	EPA 8330B	
2-Nitrotoluene	ND	ug/L	0.500	9/15/23 9:46	MER	EPA 8330B	
3-Nitrotoluene	ND	ug/L	0.500	9/15/23 9:46	MER	EPA 8330B	
4-Amino-2,6-dinitrotoluene	ND	ug/L	0.500	9/15/23 9:46	MER	EPA 8330B	
4-Nitrotoluene	ND	ug/L	0.500	9/15/23 9:46	MER	EPA 8330B	
HMX	0.173	ug/L	0.100	9/15/23 9:46	MER	EPA 8330B	
NB	ND	ug/L	0.500	9/15/23 9:46	MER	EPA 8330B	
RDX	2.64	ug/L	0.100	9/15/23 9:46	MER	EPA 8330B	
Tetryl	ND	ug/L	0.500	9/15/23 9:46	MER	EPA 8330B	
Surrogate: 1,2-Dinitrobenzene	*72.6%*		*70-130*	*9/15/23 9:46*	*MER*	*EPA 8330B*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	9/5/23 19:23	BKP	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	9/5/23 19:23	BKP	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	9/5/23 19:23	BKP	EPA 8260D	
1,1,2-Trichloroethane	ND	ug/L	0.500	9/5/23 19:23	BKP	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	9/5/23 19:23	BKP	EPA 8260D	
1,1-Dichloroethene	ND	ug/L	0.500	9/5/23 19:23	BKP	EPA 8260D	
1,1-dichloropropene	ND	ug/L	0.500	9/5/23 19:23	BKP	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	9/5/23 19:23	BKP	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	9/5/23 19:23	BKP	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	9/5/23 19:23	BKP	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	9/5/23 19:23	BKP	EPA 8260D	
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.500	9/5/23 19:23	BKP	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	ug/L	0.500	9/5/23 19:23	BKP	EPA 8260D	
1,2-Dichlorobenzene	ND	ug/L	0.500	9/5/23 19:23	BKP	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	9/5/23 19:23	BKP	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	9/5/23 19:23	BKP	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	9/5/23 19:23	BKP	EPA 8260D	
1,3-Dichlorobenzene	ND	ug/L	0.500	9/5/23 19:23	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: 03Q23L4MW03AW
Lab/Sample Number: MDI0022-01 Collect Date: 08/31/23 11:15
Date Received: 09/01/23 13:44 Collected By:
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
1,3-Dichloropropane	ND	ug/L	0.500	9/5/23 19:23	BKP	EPA 8260D	
1,4-Dichlorobenzene	ND	ug/L	0.500	9/5/23 19:23	BKP	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	9/5/23 19:23	BKP	EPA 8260D	
2-Chlorotoluene	ND	ug/L	0.500	9/5/23 19:23	BKP	EPA 8260D	
2-hexanone	ND	ug/L	2.50	9/5/23 19:23	BKP	EPA 8260D	
4-Chlorotoluene	ND	ug/L	0.500	9/5/23 19:23	BKP	EPA 8260D	
Acetone	ND	ug/L	2.50	9/5/23 19:23	BKP	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	9/5/23 19:23	BKP	EPA 8260D	
Benzene	ND	ug/L	0.500	9/5/23 19:23	BKP	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	9/5/23 19:23	BKP	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	9/5/23 19:23	BKP	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	9/5/23 19:23	BKP	EPA 8260D	
Bromoform	ND	ug/L	0.500	9/5/23 19:23	BKP	EPA 8260D	
Bromomethane	ND	ug/L	0.500	9/5/23 19:23	BKP	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	9/5/23 19:23	BKP	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	9/5/23 19:23	BKP	EPA 8260D	
Chlorobenzene	ND	ug/L	0.500	9/5/23 19:23	BKP	EPA 8260D	
Chloroethane	ND	ug/L	0.500	9/5/23 19:23	BKP	EPA 8260D	
Chloroform	ND	ug/L	0.500	9/5/23 19:23	BKP	EPA 8260D	
Chloromethane	ND	ug/L	0.500	9/5/23 19:23	BKP	EPA 8260D	
cis-1,2-dichloroethene	ND	ug/L	0.500	9/5/23 19:23	BKP	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	9/5/23 19:23	BKP	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	9/5/23 19:23	BKP	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	9/5/23 19:23	BKP	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	9/5/23 19:23	BKP	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	9/5/23 19:23	BKP	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	9/5/23 19:23	BKP	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	9/5/23 19:23	BKP	EPA 8260D	
m+p-Xylene	ND	ug/L	0.500	9/5/23 19:23	BKP	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	9/5/23 19:23	BKP	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	9/5/23 19:23	BKP	EPA 8260D	
Methylene chloride	ND	ug/L	2.50	9/5/23 19:23	BKP	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	9/5/23 19:23	BKP	EPA 8260D	
Naphthalene	ND	ug/L	0.500	9/5/23 19:23	BKP	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	9/5/23 19:23	BKP	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	9/5/23 19:23	BKP	EPA 8260D	
o-Xylene	ND	ug/L	0.500	9/5/23 19:23	BKP	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	9/5/23 19:23	BKP	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	9/5/23 19:23	BKP	EPA 8260D	
Styrene	ND	ug/L	0.500	9/5/23 19:23	BKP	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	9/5/23 19:23	BKP	EPA 8260D	
Tetrachloroethene	ND	ug/L	0.500	9/5/23 19:23	BKP	EPA 8260D	
Toluene	ND	ug/L	0.500	9/5/23 19:23	BKP	EPA 8260D	
trans-1,2-Dichloroethene	ND	ug/L	0.500	9/5/23 19:23	BKP	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	9/5/23 19:23	BKP	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	9/5/23 19:23	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location:	03Q23L4MW03AW		
Lab/Sample Number:	MDI0022-01	Collect Date:	08/31/23 11:15
Date Received:	09/01/23 13:44	Collected By:	
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Trichlorofluoromethane	ND	ug/L	0.500	9/5/23 19:23	BKP	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	9/5/23 19:23	BKP	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*100%*		*70-130*	*9/5/23 19:23*	*BKP*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*96.8%*		*70-130*	*9/5/23 19:23*	*BKP*	*EPA 8260D*	
Surrogate: Toluene-d8	*97.6%*		*70-130*	*9/5/23 19:23*	*BKP*	*EPA 8260D*	

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Analytical Results Report

(Continued)

Sample Location: 03Q23L4MW03BW
Lab/Sample Number: MDI0022-02 Collect Date: 08/31/23 10:20
Date Received: 09/01/23 13:44 Collected By:
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Perchlorate	19.8	ug/L	0.500	9/15/23 18:06	GPB	EPA 6850	
Semivolatiles							
1,3,5-TNB	ND	ug/L	0.500	9/15/23 10:23	MER	EPA 8330B	
1,3-Dinitrobenzene	ND	ug/L	0.500	9/15/23 10:23	MER	EPA 8330B	
2,4,6-Trinitrotoluene	ND	ug/L	0.100	9/15/23 10:23	MER	EPA 8330B	
2,4-Dinitrotoluene	ND	ug/L	0.100	9/15/23 10:23	MER	EPA 8330B	
2,6-DNT	ND	ug/L	0.500	9/15/23 10:23	MER	EPA 8330B	
2-Amino-4,6-dinitrotoluene	ND	ug/L	0.500	9/15/23 10:23	MER	EPA 8330B	
2-Nitrotoluene	ND	ug/L	0.500	9/15/23 10:23	MER	EPA 8330B	
3-Nitrotoluene	ND	ug/L	0.500	9/15/23 10:23	MER	EPA 8330B	
4-Amino-2,6-dinitrotoluene	ND	ug/L	0.500	9/15/23 10:23	MER	EPA 8330B	
4-Nitrotoluene	ND	ug/L	0.500	9/15/23 10:23	MER	EPA 8330B	
HMX	ND	ug/L	0.100	9/15/23 10:23	MER	EPA 8330B	
NB	ND	ug/L	0.500	9/15/23 10:23	MER	EPA 8330B	
RDX	3.17	ug/L	0.100	9/15/23 10:23	MER	EPA 8330B	
Tetryl	ND	ug/L	0.500	9/15/23 10:23	MER	EPA 8330B	
Surrogate: 1,2-Dinitrobenzene	*79.3%*		*70-130*	*9/15/23 10:23*	*MER*	*EPA 8330B*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	9/5/23 19:56	BKP	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	9/5/23 19:56	BKP	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	9/5/23 19:56	BKP	EPA 8260D	
1,1,2-Trichloroethane	ND	ug/L	0.500	9/5/23 19:56	BKP	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	9/5/23 19:56	BKP	EPA 8260D	
1,1-Dichloroethene	ND	ug/L	0.500	9/5/23 19:56	BKP	EPA 8260D	
1,1-dichloropropene	ND	ug/L	0.500	9/5/23 19:56	BKP	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	9/5/23 19:56	BKP	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	9/5/23 19:56	BKP	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	9/5/23 19:56	BKP	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	9/5/23 19:56	BKP	EPA 8260D	
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.500	9/5/23 19:56	BKP	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	ug/L	0.500	9/5/23 19:56	BKP	EPA 8260D	
1,2-Dichlorobenzene	ND	ug/L	0.500	9/5/23 19:56	BKP	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	9/5/23 19:56	BKP	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	9/5/23 19:56	BKP	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	9/5/23 19:56	BKP	EPA 8260D	
1,3-Dichlorobenzene	ND	ug/L	0.500	9/5/23 19:56	BKP	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	9/5/23 19:56	BKP	EPA 8260D	
1,4-Dichlorobenzene	ND	ug/L	0.500	9/5/23 19:56	BKP	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	9/5/23 19:56	BKP	EPA 8260D	
2-Chlorotoluene	ND	ug/L	0.500	9/5/23 19:56	BKP	EPA 8260D	
2-hexanone	ND	ug/L	2.50	9/5/23 19:56	BKP	EPA 8260D	
4-Chlorotoluene	ND	ug/L	0.500	9/5/23 19:56	BKP	EPA 8260D	
Acetone	ND	ug/L	2.50	9/5/23 19:56	BKP	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	9/5/23 19:56	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location:	03Q23L4MW03BW		
Lab/Sample Number:	MDI0022-02	Collect Date:	08/31/23 10:20
Date Received:	09/01/23 13:44	Collected By:	
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Benzene	ND	ug/L	0.500	9/5/23 19:56	BKP	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	9/5/23 19:56	BKP	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	9/5/23 19:56	BKP	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	9/5/23 19:56	BKP	EPA 8260D	
Bromoform	ND	ug/L	0.500	9/5/23 19:56	BKP	EPA 8260D	
Bromomethane	ND	ug/L	0.500	9/5/23 19:56	BKP	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	9/5/23 19:56	BKP	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	9/5/23 19:56	BKP	EPA 8260D	
Chlorobenzene	ND	ug/L	0.500	9/5/23 19:56	BKP	EPA 8260D	
Chloroethane	ND	ug/L	0.500	9/5/23 19:56	BKP	EPA 8260D	
Chloroform	ND	ug/L	0.500	9/5/23 19:56	BKP	EPA 8260D	
Chloromethane	ND	ug/L	0.500	9/5/23 19:56	BKP	EPA 8260D	
cis-1,2-dichloroethene	ND	ug/L	0.500	9/5/23 19:56	BKP	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	9/5/23 19:56	BKP	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	9/5/23 19:56	BKP	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	9/5/23 19:56	BKP	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	9/5/23 19:56	BKP	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	9/5/23 19:56	BKP	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	9/5/23 19:56	BKP	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	9/5/23 19:56	BKP	EPA 8260D	
m+p-Xylene	ND	ug/L	0.500	9/5/23 19:56	BKP	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	9/5/23 19:56	BKP	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	9/5/23 19:56	BKP	EPA 8260D	
Methylene chloride	ND	ug/L	2.50	9/5/23 19:56	BKP	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	9/5/23 19:56	BKP	EPA 8260D	
Naphthalene	ND	ug/L	0.500	9/5/23 19:56	BKP	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	9/5/23 19:56	BKP	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	9/5/23 19:56	BKP	EPA 8260D	
o-Xylene	ND	ug/L	0.500	9/5/23 19:56	BKP	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	9/5/23 19:56	BKP	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	9/5/23 19:56	BKP	EPA 8260D	
Styrene	ND	ug/L	0.500	9/5/23 19:56	BKP	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	9/5/23 19:56	BKP	EPA 8260D	
Tetrachloroethene	ND	ug/L	0.500	9/5/23 19:56	BKP	EPA 8260D	
Toluene	ND	ug/L	0.500	9/5/23 19:56	BKP	EPA 8260D	
trans-1,2-Dichloroethene	ND	ug/L	0.500	9/5/23 19:56	BKP	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	9/5/23 19:56	BKP	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	9/5/23 19:56	BKP	EPA 8260D	
Trichlorofluoromethane	ND	ug/L	0.500	9/5/23 19:56	BKP	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	9/5/23 19:56	BKP	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*100%*		*70-130*	*9/5/23 19:56*	*BKP*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*94.5%*		*70-130*	*9/5/23 19:56*	*BKP*	*EPA 8260D*	
Surrogate: Toluene-d8	*98.0%*		*70-130*	*9/5/23 19:56*	*BKP*	*EPA 8260D*	

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Analytical Results Report

(Continued)

Sample Location:	03Q23L4MW03BW		
Lab/Sample Number:	MDI0022-02	Collect Date:	08/31/23 10:20
Date Received:	09/01/23 13:44	Collected By:	
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							

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Analytical Results Report

(Continued)

Sample Location: 03Q23L4MW04AW
Lab/Sample Number: MDI0022-03 Collect Date: 08/31/23 15:15
Date Received: 09/01/23 13:44 Collected By:
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Perchlorate	79.0	ug/L	25.0	9/18/23 10:10	GPB	EPA 6850	
Semivolatiles							
1,3,5-TNB	ND	ug/L	0.500	9/15/23 11:01	MER	EPA 8330B	
1,3-Dinitrobenzene	ND	ug/L	0.500	9/15/23 11:01	MER	EPA 8330B	
2,4,6-Trinitrotoluene	ND	ug/L	0.100	9/15/23 11:01	MER	EPA 8330B	
2,4-Dinitrotoluene	ND	ug/L	0.100	9/15/23 11:01	MER	EPA 8330B	
2,6-DNT	ND	ug/L	0.500	9/15/23 11:01	MER	EPA 8330B	
2-Amino-4,6-dinitrotoluene	ND	ug/L	0.500	9/15/23 11:01	MER	EPA 8330B	
2-Nitrotoluene	ND	ug/L	0.500	9/15/23 11:01	MER	EPA 8330B	
3-Nitrotoluene	ND	ug/L	0.500	9/15/23 11:01	MER	EPA 8330B	
4-Amino-2,6-dinitrotoluene	ND	ug/L	0.500	9/15/23 11:01	MER	EPA 8330B	
4-Nitrotoluene	ND	ug/L	0.500	9/15/23 11:01	MER	EPA 8330B	
HMX	ND	ug/L	0.100	9/15/23 11:01	MER	EPA 8330B	
NB	ND	ug/L	0.500	9/15/23 11:01	MER	EPA 8330B	
RDX	4.95	ug/L	0.100	9/15/23 11:01	MER	EPA 8330B	
Tetryl	ND	ug/L	0.500	9/15/23 11:01	MER	EPA 8330B	
Surrogate: 1,2-Dinitrobenzene	*78.1%*		*70-130*	*9/15/23 11:01*	*MER*	*EPA 8330B*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	9/5/23 20:28	BKP	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	9/5/23 20:28	BKP	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	9/5/23 20:28	BKP	EPA 8260D	
1,1,2-Trichloroethane	ND	ug/L	0.500	9/5/23 20:28	BKP	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	9/5/23 20:28	BKP	EPA 8260D	
1,1-Dichloroethene	ND	ug/L	0.500	9/5/23 20:28	BKP	EPA 8260D	
1,1-dichloropropene	ND	ug/L	0.500	9/5/23 20:28	BKP	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	9/5/23 20:28	BKP	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	9/5/23 20:28	BKP	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	9/5/23 20:28	BKP	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	9/5/23 20:28	BKP	EPA 8260D	
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.500	9/5/23 20:28	BKP	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	ug/L	0.500	9/5/23 20:28	BKP	EPA 8260D	
1,2-Dichlorobenzene	ND	ug/L	0.500	9/5/23 20:28	BKP	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	9/5/23 20:28	BKP	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	9/5/23 20:28	BKP	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	9/5/23 20:28	BKP	EPA 8260D	
1,3-Dichlorobenzene	ND	ug/L	0.500	9/5/23 20:28	BKP	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	9/5/23 20:28	BKP	EPA 8260D	
1,4-Dichlorobenzene	ND	ug/L	0.500	9/5/23 20:28	BKP	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	9/5/23 20:28	BKP	EPA 8260D	
2-Chlorotoluene	ND	ug/L	0.500	9/5/23 20:28	BKP	EPA 8260D	
2-hexanone	ND	ug/L	2.50	9/5/23 20:28	BKP	EPA 8260D	
4-Chlorotoluene	ND	ug/L	0.500	9/5/23 20:28	BKP	EPA 8260D	
Acetone	ND	ug/L	2.50	9/5/23 20:28	BKP	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	9/5/23 20:28	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location:	03Q23L4MW04AW		
Lab/Sample Number:	MDI0022-03	Collect Date:	08/31/23 15:15
Date Received:	09/01/23 13:44	Collected By:	
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Benzene	ND	ug/L	0.500	9/5/23 20:28	BKP	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	9/5/23 20:28	BKP	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	9/5/23 20:28	BKP	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	9/5/23 20:28	BKP	EPA 8260D	
Bromoform	ND	ug/L	0.500	9/5/23 20:28	BKP	EPA 8260D	
Bromomethane	ND	ug/L	0.500	9/5/23 20:28	BKP	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	9/5/23 20:28	BKP	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	9/5/23 20:28	BKP	EPA 8260D	
Chlorobenzene	ND	ug/L	0.500	9/5/23 20:28	BKP	EPA 8260D	
Chloroethane	ND	ug/L	0.500	9/5/23 20:28	BKP	EPA 8260D	
Chloroform	ND	ug/L	0.500	9/5/23 20:28	BKP	EPA 8260D	
Chloromethane	ND	ug/L	0.500	9/5/23 20:28	BKP	EPA 8260D	
cis-1,2-dichloroethene	ND	ug/L	0.500	9/5/23 20:28	BKP	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	9/5/23 20:28	BKP	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	9/5/23 20:28	BKP	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	9/5/23 20:28	BKP	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	9/5/23 20:28	BKP	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	9/5/23 20:28	BKP	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	9/5/23 20:28	BKP	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	9/5/23 20:28	BKP	EPA 8260D	
m+p-Xylene	ND	ug/L	0.500	9/5/23 20:28	BKP	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	9/5/23 20:28	BKP	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	9/5/23 20:28	BKP	EPA 8260D	
Methylene chloride	ND	ug/L	2.50	9/5/23 20:28	BKP	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	9/5/23 20:28	BKP	EPA 8260D	
Naphthalene	ND	ug/L	0.500	9/5/23 20:28	BKP	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	9/5/23 20:28	BKP	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	9/5/23 20:28	BKP	EPA 8260D	
o-Xylene	ND	ug/L	0.500	9/5/23 20:28	BKP	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	9/5/23 20:28	BKP	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	9/5/23 20:28	BKP	EPA 8260D	
Styrene	ND	ug/L	0.500	9/5/23 20:28	BKP	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	9/5/23 20:28	BKP	EPA 8260D	
Tetrachloroethene	ND	ug/L	0.500	9/5/23 20:28	BKP	EPA 8260D	
Toluene	ND	ug/L	0.500	9/5/23 20:28	BKP	EPA 8260D	
trans-1,2-Dichloroethene	ND	ug/L	0.500	9/5/23 20:28	BKP	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	9/5/23 20:28	BKP	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	9/5/23 20:28	BKP	EPA 8260D	
Trichlorofluoromethane	ND	ug/L	0.500	9/5/23 20:28	BKP	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	9/5/23 20:28	BKP	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*100%*		*70-130*	*9/5/23 20:28*	*BKP*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*96.0%*		*70-130*	*9/5/23 20:28*	*BKP*	*EPA 8260D*	
Surrogate: Toluene-d8	*97.3%*		*70-130*	*9/5/23 20:28*	*BKP*	*EPA 8260D*	

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Analytical Results Report

(Continued)

Sample Location:	03Q23L4MW04AW		
Lab/Sample Number:	MDI0022-03	Collect Date:	08/31/23 15:15
Date Received:	09/01/23 13:44	Collected By:	
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							

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Analytical Results Report

(Continued)

Sample Location: 03Q23L4MW05AW
Lab/Sample Number: MDI0022-04 Collect Date: 08/31/23 09:15
Date Received: 09/01/23 13:44 Collected By:
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Perchlorate	19.4	ug/L	0.500	9/15/23 18:20	GPB	EPA 6850	
Semivolatiles							
1,3,5-TNB	ND	ug/L	0.500	9/15/23 11:39	MER	EPA 8330B	
1,3-Dinitrobenzene	ND	ug/L	0.500	9/15/23 11:39	MER	EPA 8330B	
2,4,6-Trinitrotoluene	ND	ug/L	0.100	9/15/23 11:39	MER	EPA 8330B	
2,4-Dinitrotoluene	ND	ug/L	0.100	9/15/23 11:39	MER	EPA 8330B	
2,6-DNT	ND	ug/L	0.500	9/15/23 11:39	MER	EPA 8330B	
2-Amino-4,6-dinitrotoluene	ND	ug/L	0.500	9/15/23 11:39	MER	EPA 8330B	
2-Nitrotoluene	ND	ug/L	0.500	9/15/23 11:39	MER	EPA 8330B	
3-Nitrotoluene	ND	ug/L	0.500	9/15/23 11:39	MER	EPA 8330B	
4-Amino-2,6-dinitrotoluene	ND	ug/L	0.500	9/15/23 11:39	MER	EPA 8330B	
4-Nitrotoluene	ND	ug/L	0.500	9/15/23 11:39	MER	EPA 8330B	
HMX	ND	ug/L	0.100	9/15/23 11:39	MER	EPA 8330B	
NB	ND	ug/L	0.500	9/15/23 11:39	MER	EPA 8330B	
RDX	2.07	ug/L	0.100	9/15/23 11:39	MER	EPA 8330B	
Tetryl	ND	ug/L	0.500	9/15/23 11:39	MER	EPA 8330B	
Surrogate: 1,2-Dinitrobenzene	*82.8%*		*70-130*	*9/15/23 11:39*	*MER*	*EPA 8330B*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	9/5/23 21:01	BKP	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	9/5/23 21:01	BKP	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	9/5/23 21:01	BKP	EPA 8260D	
1,1,2-Trichloroethane	ND	ug/L	0.500	9/5/23 21:01	BKP	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	9/5/23 21:01	BKP	EPA 8260D	
1,1-Dichloroethene	ND	ug/L	0.500	9/5/23 21:01	BKP	EPA 8260D	
1,1-dichloropropene	ND	ug/L	0.500	9/5/23 21:01	BKP	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	9/5/23 21:01	BKP	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	9/5/23 21:01	BKP	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	9/5/23 21:01	BKP	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	9/5/23 21:01	BKP	EPA 8260D	
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.500	9/5/23 21:01	BKP	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	ug/L	0.500	9/5/23 21:01	BKP	EPA 8260D	
1,2-Dichlorobenzene	ND	ug/L	0.500	9/5/23 21:01	BKP	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	9/5/23 21:01	BKP	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	9/5/23 21:01	BKP	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	9/5/23 21:01	BKP	EPA 8260D	
1,3-Dichlorobenzene	ND	ug/L	0.500	9/5/23 21:01	BKP	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	9/5/23 21:01	BKP	EPA 8260D	
1,4-Dichlorobenzene	ND	ug/L	0.500	9/5/23 21:01	BKP	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	9/5/23 21:01	BKP	EPA 8260D	
2-Chlorotoluene	ND	ug/L	0.500	9/5/23 21:01	BKP	EPA 8260D	
2-hexanone	ND	ug/L	2.50	9/5/23 21:01	BKP	EPA 8260D	
4-Chlorotoluene	ND	ug/L	0.500	9/5/23 21:01	BKP	EPA 8260D	
Acetone	ND	ug/L	2.50	9/5/23 21:01	BKP	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	9/5/23 21:01	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: 03Q23L4MW05AW
Lab/Sample Number: MDI0022-04 Collect Date: 08/31/23 09:15
Date Received: 09/01/23 13:44 Collected By:
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Benzene	ND	ug/L	0.500	9/5/23 21:01	BKP	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	9/5/23 21:01	BKP	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	9/5/23 21:01	BKP	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	9/5/23 21:01	BKP	EPA 8260D	
Bromoform	ND	ug/L	0.500	9/5/23 21:01	BKP	EPA 8260D	
Bromomethane	ND	ug/L	0.500	9/5/23 21:01	BKP	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	9/5/23 21:01	BKP	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	9/5/23 21:01	BKP	EPA 8260D	
Chlorobenzene	ND	ug/L	0.500	9/5/23 21:01	BKP	EPA 8260D	
Chloroethane	ND	ug/L	0.500	9/5/23 21:01	BKP	EPA 8260D	
Chloroform	ND	ug/L	0.500	9/5/23 21:01	BKP	EPA 8260D	
Chloromethane	ND	ug/L	0.500	9/5/23 21:01	BKP	EPA 8260D	
cis-1,2-dichloroethene	ND	ug/L	0.500	9/5/23 21:01	BKP	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	9/5/23 21:01	BKP	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	9/5/23 21:01	BKP	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	9/5/23 21:01	BKP	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	9/5/23 21:01	BKP	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	9/5/23 21:01	BKP	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	9/5/23 21:01	BKP	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	9/5/23 21:01	BKP	EPA 8260D	
m+p-Xylene	ND	ug/L	0.500	9/5/23 21:01	BKP	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	9/5/23 21:01	BKP	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	9/5/23 21:01	BKP	EPA 8260D	
Methylene chloride	ND	ug/L	2.50	9/5/23 21:01	BKP	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	9/5/23 21:01	BKP	EPA 8260D	
Naphthalene	ND	ug/L	0.500	9/5/23 21:01	BKP	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	9/5/23 21:01	BKP	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	9/5/23 21:01	BKP	EPA 8260D	
o-Xylene	ND	ug/L	0.500	9/5/23 21:01	BKP	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	9/5/23 21:01	BKP	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	9/5/23 21:01	BKP	EPA 8260D	
Styrene	ND	ug/L	0.500	9/5/23 21:01	BKP	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	9/5/23 21:01	BKP	EPA 8260D	
Tetrachloroethene	ND	ug/L	0.500	9/5/23 21:01	BKP	EPA 8260D	
Toluene	ND	ug/L	0.500	9/5/23 21:01	BKP	EPA 8260D	
trans-1,2-Dichloroethene	ND	ug/L	0.500	9/5/23 21:01	BKP	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	9/5/23 21:01	BKP	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	9/5/23 21:01	BKP	EPA 8260D	
Trichlorofluoromethane	ND	ug/L	0.500	9/5/23 21:01	BKP	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	9/5/23 21:01	BKP	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*100%*		*70-130*	*9/5/23 21:01*	*BKP*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*94.5%*		*70-130*	*9/5/23 21:01*	*BKP*	*EPA 8260D*	
Surrogate: Toluene-d8	*97.8%*		*70-130*	*9/5/23 21:01*	*BKP*	*EPA 8260D*	

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Analytical Results Report

(Continued)

Sample Location:	03Q23L4MW05AW		
Lab/Sample Number:	MDI0022-04	Collect Date:	08/31/23 09:15
Date Received:	09/01/23 13:44	Collected By:	
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							

Authorized Signature,

Justin Doty For Todd Taruscio, Laboratory Manager

L4	The associated blank spike recovery was below method acceptance limits. This analyte was not detected in the sample.
L5	The associated blank spike recovery was above laboratory/method acceptance limits. This analyte was not detected in the sample
M1	Matrix spike recovery was high; the associated blank spike recovery was acceptable. Potential matrix effect
M12	Matrix spike recovery was low. Potential matrix effect.
M13	Matrix spike recovery was high due to a potential matrix effect.
PQL	Practical Quantitation Limit
ND	Not Detected
MCL	EPA's Maximum Contaminant Level
Dry	Sample results reported on a dry weight basis
*	Not a state-certified analyte

RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was spiked or duplicated.

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Certifications

Code	Description	Facility	Number
DOE WA	Washington Department of Ecology	Anatek-Moscow, ID	C595

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Quality Control Data

Inorganics

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0071 - Perchlorate										
Blank (BDI0071-BLK1)					Prepared: 9/5/2023 Analyzed: 9/15/2023					
Perchlorate	ND		0.500	ug/L						
LCS (BDI0071-BS1)					Prepared: 9/5/2023 Analyzed: 9/15/2023					
Perchlorate	1.09		0.500	ug/L	1.00		109	80-120		
Matrix Spike (BDI0071-MS1)			**Source: MDI0021-01**		Prepared: 9/5/2023 Analyzed: 9/15/2023					
Perchlorate	1.01		0.500	ug/L	1.00	ND	101	80-120		
Matrix Spike (BDI0071-MS2)			**Source: MDI0024-01**		Prepared: 9/5/2023 Analyzed: 9/18/2023					
Perchlorate	454		25.0	ug/L	250	182	109	80-120		
Matrix Spike Dup (BDI0071-MSD1)			**Source: MDI0021-01**		Prepared: 9/5/2023 Analyzed: 9/15/2023					
Perchlorate	1.15		0.500	ug/L	1.00	ND	115	80-120	13.0	20
Matrix Spike Dup (BDI0071-MSD2)			**Source: MDI0024-01**		Prepared: 9/5/2023 Analyzed: 9/18/2023					
Perchlorate	496	M13	25.0	ug/L	250	182	126	80-120	8.84	20

Quality Control Data

Semivolatiles

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0064 - Explosives										
Blank (BDI0064-BLK1)					Prepared: 9/5/2023 Analyzed: 9/15/2023					
HMX	ND		0.100	ug/L						
RDX	ND		0.100	ug/L						
1,3,5-TNB	ND		0.500	ug/L						
1,3-Dinitrobenzene	ND		0.500	ug/L						
NB	ND		0.500	ug/L						
2,4,6-Trinitrotoluene	ND		0.100	ug/L						
Tetryl	ND		0.500	ug/L						
2,6-DNT	ND		0.500	ug/L						
2,4-Dinitrotoluene	ND		0.100	ug/L						
2-Nitrotoluene	ND		0.500	ug/L						
4-Nitrotoluene	ND		0.500	ug/L						
4-Amino-2,6-dinitrotoluene	ND		0.500	ug/L						
3-Nitrotoluene	ND		0.500	ug/L						
2-Amino-4,6-dinitrotoluene	ND		0.500	ug/L						
Surrogate: 1,2-Dinitrobenzene			*8.14*	*ug/L*	*10.0*		*81.4*	*70-130*		
Blank (BDI0064-BLK2)					Prepared: 9/5/2023 Analyzed: 9/15/2023					
HMX	ND		0.100	ug/L						
RDX	ND		0.100	ug/L						
1,3,5-TNB	ND		0.500	ug/L						
1,3-Dinitrobenzene	ND		0.500	ug/L						
NB	ND		0.500	ug/L						
2,4,6-Trinitrotoluene	ND		0.100	ug/L						
Tetryl	ND		0.500	ug/L						
2,6-DNT	ND		0.500	ug/L						
2,4-Dinitrotoluene	ND		0.100	ug/L						

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Quality Control Data
(Continued)

Semivolatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0064 - Explosives (Continued)										
Blank (BDI0064-BLK2)					Prepared: 9/5/2023 Analyzed: 9/15/2023					
2-Nitrotoluene	ND		0.500	ug/L						
4-Nitrotoluene	ND		0.500	ug/L						
4-Amino-2,6-dinitrotoluene	ND		0.500	ug/L						
3-Nitrotoluene	ND		0.500	ug/L						
2-Amino-4,6-dinitrotoluene	ND		0.500	ug/L						
Surrogate: 1,2-Dinitrobenzene			*8.13*	*ug/L*	*10.0*		*81.3*	*70-130*		
Blank (BDI0064-BLK3)					Prepared: 9/5/2023 Analyzed: 9/16/2023					
HMX	ND		0.100	ug/L						
RDX	ND		0.100	ug/L						
1,3,5-TNB	ND		0.500	ug/L						
1,3-Dinitrobenzene	ND		0.500	ug/L						
NB	ND		0.500	ug/L						
2,4,6-Trinitrotoluene	ND		0.100	ug/L						
Tetryl	ND		0.500	ug/L						
2,6-DNT	ND		0.500	ug/L						
2,4-Dinitrotoluene	ND		0.100	ug/L						
2-Nitrotoluene	ND		0.500	ug/L						
4-Nitrotoluene	ND		0.500	ug/L						
4-Amino-2,6-dinitrotoluene	ND		0.500	ug/L						
3-Nitrotoluene	ND		0.500	ug/L						
2-Amino-4,6-dinitrotoluene	ND		0.500	ug/L						
Surrogate: 1,2-Dinitrobenzene			*8.06*	*ug/L*	*10.0*		*80.6*	*70-130*		
LCS (BDI0064-BS1)					Prepared: 9/5/2023 Analyzed: 9/15/2023					
HMX	4.57		0.100	ug/L	5.00		91.3	70-130		
RDX	4.67		0.100	ug/L	5.00		93.5	70-130		
1,3,5-TNB	4.22		0.500	ug/L	5.00		84.3	70-130		
1,3-Dinitrobenzene	4.24		0.500	ug/L	5.00		84.9	70-130		
NB	4.13		0.500	ug/L	5.00		82.6	70-130		
2,4,6-Trinitrotoluene	4.32		0.100	ug/L	5.00		86.3	70-130		
Tetryl	4.34		0.500	ug/L	5.00		86.7	70-130		
2,6-DNT	4.54		0.500	ug/L	5.00		90.8	70-130		
2,4-Dinitrotoluene	4.32		0.100	ug/L	5.00		86.3	70-130		
2-Nitrotoluene	4.77		0.500	ug/L	5.00		95.5	70-130		
4-Nitrotoluene	4.53		0.500	ug/L	5.00		90.5	70-130		
4-Amino-2,6-dinitrotoluene	4.93		0.500	ug/L	5.00		98.7	70-130		
3-Nitrotoluene	5.60		0.500	ug/L	5.00		112	70-130		
2-Amino-4,6-dinitrotoluene	4.76		0.500	ug/L	5.00		95.3	70-130		
Surrogate: 1,2-Dinitrobenzene		*L4*	*5.84*	*ug/L*	*10.0*		*58.4*	*70-130*		

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Quality Control Data
(Continued)

Semivolatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0064 - Explosives (Continued)										
LCS (BDI0064-BS2)					Prepared: 9/5/2023 Analyzed: 9/15/2023					
HMX	4.62		0.100	ug/L	5.00		92.4	70-130		
RDX	4.90		0.100	ug/L	5.00		98.0	70-130		
1,3,5-TNB	4.19		0.500	ug/L	5.00		83.9	70-130		
1,3-Dinitrobenzene	4.27		0.500	ug/L	5.00		85.4	70-130		
NB	4.17		0.500	ug/L	5.00		83.3	70-130		
2,4,6-Trinitrotoluene	4.32		0.100	ug/L	5.00		86.5	70-130		
Tetryl	4.46		0.500	ug/L	5.00		89.2	70-130		
2,6-DNT	4.49		0.500	ug/L	5.00		89.9	70-130		
2,4-Dinitrotoluene	4.30		0.100	ug/L	5.00		85.9	70-130		
2-Nitrotoluene	4.82		0.500	ug/L	5.00		96.3	70-130		
4-Nitrotoluene	3.76		0.500	ug/L	5.00		75.1	70-130		
4-Amino-2,6-dinitrotoluene	4.24		0.500	ug/L	5.00		84.9	70-130		
3-Nitrotoluene	4.25		0.500	ug/L	5.00		85.0	70-130		
2-Amino-4,6-dinitrotoluene	4.27		0.500	ug/L	5.00		85.5	70-130		
Surrogate: 1,2-Dinitrobenzene		*L4*	*6.78*	*ug/L*	*10.0*		*67.8*	*70-130*		
LCS (BDI0064-BS3)					Prepared: 9/5/2023 Analyzed: 9/16/2023					
HMX	5.58		0.100	ug/L	5.00		112	70-130		
RDX	5.70		0.100	ug/L	5.00		114	70-130		
1,3,5-TNB	5.54		0.500	ug/L	5.00		111	70-130		
1,3-Dinitrobenzene	4.96		0.500	ug/L	5.00		99.1	70-130		
NB	4.73		0.500	ug/L	5.00		94.5	70-130		
2,4,6-Trinitrotoluene	5.68		0.100	ug/L	5.00		114	70-130		
Tetryl	4.04		0.500	ug/L	5.00		80.8	70-130		
2,6-DNT	4.66		0.500	ug/L	5.00		93.2	70-130		
2,4-Dinitrotoluene	4.91		0.100	ug/L	5.00		98.2	70-130		
2-Nitrotoluene	4.68		0.500	ug/L	5.00		93.6	70-130		
4-Nitrotoluene	3.60		0.500	ug/L	5.00		72.1	70-130		
4-Amino-2,6-dinitrotoluene	4.65		0.500	ug/L	5.00		93.1	70-130		
3-Nitrotoluene	4.66		0.500	ug/L	5.00		93.3	70-130		
2-Amino-4,6-dinitrotoluene	4.57		0.500	ug/L	5.00		91.3	70-130		
Surrogate: 1,2-Dinitrobenzene		*L4*	*6.76*	*ug/L*	*10.0*		*67.6*	*70-130*		

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Quality Control Data
(Continued)

Semivolatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0064 - Explosives (Continued)										
LCS Dup (BDI0064-BSD1)					Prepared: 9/5/2023 Analyzed: 9/15/2023					
HMX	4.71		0.100	ug/L	5.00		94.3	70-130	3.19	25
RDX	4.74		0.100	ug/L	5.00		94.8	70-130	1.46	25
1,3,5-TNB	4.38		0.500	ug/L	5.00		87.7	70-130	3.87	25
1,3-Dinitrobenzene	4.35		0.500	ug/L	5.00		87.0	70-130	2.56	25
NB	4.26		0.500	ug/L	5.00		85.2	70-130	3.17	25
2,4,6-Trinitrotoluene	4.43		0.100	ug/L	5.00		88.6	70-130	2.59	25
Tetryl	4.46		0.500	ug/L	5.00		89.2	70-130	2.76	25
2,6-DNT	4.42		0.500	ug/L	5.00		88.4	70-130	2.67	25
2,4-Dinitrotoluene	4.42		0.100	ug/L	5.00		88.3	70-130	2.33	25
2-Nitrotoluene	4.81		0.500	ug/L	5.00		96.3	70-130	0.811	25
4-Nitrotoluene	3.81		0.500	ug/L	5.00		76.2	70-130	17.2	25
4-Amino-2,6-dinitrotoluene	4.43		0.500	ug/L	5.00		88.6	70-130	10.8	25
3-Nitrotoluene	4.49		0.500	ug/L	5.00		89.9	70-130	21.9	25
2-Amino-4,6-dinitrotoluene	4.52		0.500	ug/L	5.00		90.4	70-130	5.31	25
Surrogate: 1,2-Dinitrobenzene		*L4*	*6.76*	*ug/L*	*10.0*		*67.6*	*70-130*		
LCS Dup (BDI0064-BSD2)					Prepared: 9/5/2023 Analyzed: 9/15/2023					
HMX	4.77		0.100	ug/L	5.00		95.4	70-130	3.18	25
RDX	5.04		0.100	ug/L	5.00		101	70-130	2.78	25
1,3,5-TNB	4.37		0.500	ug/L	5.00		87.4	70-130	4.17	25
1,3-Dinitrobenzene	4.48		0.500	ug/L	5.00		89.6	70-130	4.73	25
NB	4.73		0.500	ug/L	5.00		94.7	70-130	12.8	25
2,4,6-Trinitrotoluene	4.45		0.100	ug/L	5.00		88.9	70-130	2.79	25
Tetryl	4.30		0.500	ug/L	5.00		86.0	70-130	3.63	25
2,6-DNT	4.42		0.500	ug/L	5.00		88.5	70-130	1.57	25
2,4-Dinitrotoluene	4.44		0.100	ug/L	5.00		88.9	70-130	3.35	25
2-Nitrotoluene	4.79		0.500	ug/L	5.00		95.8	70-130	0.554	25
4-Nitrotoluene	3.75		0.500	ug/L	5.00		75.0	70-130	0.208	25
4-Amino-2,6-dinitrotoluene	4.15		0.500	ug/L	5.00		83.1	70-130	2.14	25
3-Nitrotoluene	4.16		0.500	ug/L	5.00		83.2	70-130	2.14	25
2-Amino-4,6-dinitrotoluene	4.56		0.500	ug/L	5.00		91.1	70-130	6.40	25
Surrogate: 1,2-Dinitrobenzene		*L4*	*5.94*	*ug/L*	*10.0*		*59.4*	*70-130*		

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Quality Control Data
(Continued)

Semivolatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0064 - Explosives (Continued)										
LCS Dup (BDI0064-BSD3)					Prepared: 9/5/2023 Analyzed: 9/16/2023					
HMX	5.16		0.100	ug/L	5.00		103	70-130	7.83	25
RDX	5.56		0.100	ug/L	5.00		111	70-130	2.50	25
1,3,5-TNB	5.39		0.500	ug/L	5.00		108	70-130	2.90	25
1,3-Dinitrobenzene	4.69		0.500	ug/L	5.00		93.7	70-130	5.64	25
NB	4.37		0.500	ug/L	5.00		87.4	70-130	7.89	25
2,4,6-Trinitrotoluene	5.51		0.100	ug/L	5.00		110	70-130	3.02	25
Tetryl	4.11		0.500	ug/L	5.00		82.3	70-130	1.84	25
2,6-DNT	4.66		0.500	ug/L	5.00		93.1	70-130	0.0833	25
2,4-Dinitrotoluene	4.70		0.100	ug/L	5.00		93.9	70-130	4.43	25
2-Nitrotoluene	4.58		0.500	ug/L	5.00		91.6	70-130	2.14	25
4-Nitrotoluene	3.63		0.500	ug/L	5.00		72.7	70-130	0.803	25
4-Amino-2,6-dinitrotoluene	4.64		0.500	ug/L	5.00		92.8	70-130	0.291	25
3-Nitrotoluene	4.65		0.500	ug/L	5.00		93.0	70-130	0.291	25
2-Amino-4,6-dinitrotoluene	4.30		0.500	ug/L	5.00		86.1	70-130	5.91	25
Surrogate: 1,2-Dinitrobenzene		*L4*	*5.82*	*ug/L*	*10.0*		*58.2*	*70-130*		
Matrix Spike (BDI0064-MS1)		**Source: MDI0021-01**			Prepared: 9/5/2023 Analyzed: 9/15/2023					
HMX	4.42		0.100	ug/L	5.00	ND	88.5	70-130		
RDX	4.64		0.100	ug/L	5.00	ND	92.8	70-130		
1,3,5-TNB	4.07		0.500	ug/L	5.00	ND	81.5	70-130		
1,3-Dinitrobenzene	4.18		0.500	ug/L	5.00	ND	83.6	70-130		
NB	4.01		0.500	ug/L	5.00	ND	80.1	70-130		
2,4,6-Trinitrotoluene	4.19		0.100	ug/L	5.00	ND	83.7	70-130		
Tetryl	4.37		0.500	ug/L	5.00	ND	87.5	70-130		
2,6-DNT	4.45		0.500	ug/L	5.00	ND	89.1	70-130		
2,4-Dinitrotoluene	4.19		0.100	ug/L	5.00	ND	83.9	70-130		
2-Nitrotoluene	4.72		0.500	ug/L	5.00	ND	94.4	70-130		
4-Nitrotoluene	3.90		0.500	ug/L	5.00	ND	77.9	70-130		
4-Amino-2,6-dinitrotoluene	4.25		0.500	ug/L	5.00	ND	85.0	70-130		
3-Nitrotoluene	4.64		0.500	ug/L	5.00	ND	92.8	70-130		
2-Amino-4,6-dinitrotoluene	4.35		0.500	ug/L	5.00	ND	86.9	70-130		
Surrogate: 1,2-Dinitrobenzene			*7.62*	*ug/L*	*10.0*		*76.2*	*70-130*		

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Quality Control Data
(Continued)

Semivolatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0064 - Explosives (Continued)										
Matrix Spike (BDI0064-MS2)		**Source: MDI0024-01**			Prepared: 9/5/2023 Analyzed: 9/15/2023					
HMX	6.53		0.100	ug/L	5.00	1.65	97.6	70-130		
RDX	8.84		0.100	ug/L	5.00	3.83	100	70-130		
1,3,5-TNB	4.40		0.500	ug/L	5.00	ND	87.9	70-130		
1,3-Dinitrobenzene	4.50		0.500	ug/L	5.00	ND	89.9	70-130		
NB	4.56		0.500	ug/L	5.00	ND	91.1	70-130		
2,4,6-Trinitrotoluene	4.51		0.100	ug/L	5.00	ND	90.3	70-130		
Tetryl	4.58		0.500	ug/L	5.00	ND	91.6	70-130		
2,6-DNT	4.67		0.500	ug/L	5.00	ND	93.5	70-130		
2,4-Dinitrotoluene	4.53		0.100	ug/L	5.00	ND	90.5	70-130		
2-Nitrotoluene	5.06		0.500	ug/L	5.00	ND	101	70-130		
4-Nitrotoluene	3.96		0.500	ug/L	5.00	ND	79.2	70-130		
4-Amino-2,6-dinitrotoluene	4.28		0.500	ug/L	5.00	ND	85.6	70-130		
3-Nitrotoluene	4.29		0.500	ug/L	5.00	ND	85.8	70-130		
2-Amino-4,6-dinitrotoluene	4.57		0.500	ug/L	5.00	ND	91.3	70-130		
Surrogate: 1,2-Dinitrobenzene			*8.06*	*ug/L*	*10.0*		*80.6*	*70-130*		
Matrix Spike (BDI0064-MS3)		**Source: MDI0025-01**			Prepared: 9/5/2023 Analyzed: 9/15/2023					
HMX	4.55		0.100	ug/L	5.00	ND	91.0	70-130		
RDX	4.87		0.100	ug/L	5.00	ND	97.3	70-130		
1,3,5-TNB	4.23		0.500	ug/L	5.00	ND	84.6	70-130		
1,3-Dinitrobenzene	4.22		0.500	ug/L	5.00	ND	84.3	70-130		
NB	4.12		0.500	ug/L	5.00	ND	82.4	70-130		
2,4,6-Trinitrotoluene	4.27		0.100	ug/L	5.00	ND	85.5	70-130		
Tetryl	4.23		0.500	ug/L	5.00	ND	84.6	70-130		
2,6-DNT	4.35		0.500	ug/L	5.00	ND	87.0	70-130		
2,4-Dinitrotoluene	4.32		0.100	ug/L	5.00	ND	86.3	70-130		
2-Nitrotoluene	4.67		0.500	ug/L	5.00	ND	93.5	70-130		
4-Nitrotoluene	8.59	M1	0.500	ug/L	5.00	ND	172	70-130		
4-Amino-2,6-dinitrotoluene	5.08		0.500	ug/L	5.00	ND	102	70-130		
3-Nitrotoluene	5.09		0.500	ug/L	5.00	ND	102	70-130		
2-Amino-4,6-dinitrotoluene	4.73		0.500	ug/L	5.00	ND	94.6	70-130		
Surrogate: 1,2-Dinitrobenzene			*7.18*	*ug/L*	*10.0*		*71.8*	*70-130*		

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Quality Control Data
(Continued)

Semivolatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0064 - Explosives (Continued)										
Matrix Spike (BDI0064-MS4)		**Source: MDI0036-01**			Prepared: 9/5/2023 Analyzed: 9/16/2023					
HMX	5.38		0.100	ug/L	5.00	ND	108	70-130		
RDX	5.79		0.100	ug/L	5.00	ND	116	70-130		
1,3,5-TNB	5.61		0.500	ug/L	5.00	ND	112	70-130		
1,3-Dinitrobenzene	5.04		0.500	ug/L	5.00	ND	101	70-130		
NB	4.76		0.500	ug/L	5.00	ND	95.2	70-130		
2,4,6-Trinitrotoluene	5.67		0.100	ug/L	5.00	ND	113	70-130		
Tetryl	4.08		0.500	ug/L	5.00	ND	81.6	70-130		
2,6-DNT	4.81		0.500	ug/L	5.00	ND	96.2	70-130		
2,4-Dinitrotoluene	5.00		0.100	ug/L	5.00	ND	100	70-130		
2-Nitrotoluene	4.70		0.500	ug/L	5.00	ND	94.0	70-130		
4-Nitrotoluene	3.50		0.500	ug/L	5.00	ND	70.0	70-130		
4-Amino-2,6-dinitrotoluene	4.55		0.500	ug/L	5.00	ND	91.1	70-130		
3-Nitrotoluene	4.56		0.500	ug/L	5.00	ND	91.2	70-130		
2-Amino-4,6-dinitrotoluene	4.23		0.500	ug/L	5.00	ND	84.7	70-130		
Surrogate: 1,2-Dinitrobenzene			*7.70*	*ug/L*	*10.0*		*77.0*	*70-130*		
Matrix Spike Dup (BDI0064-MSD1)		**Source: MDI0021-01**			Prepared: 9/5/2023 Analyzed: 9/15/2023					
HMX	4.54		0.100	ug/L	5.00	ND	90.8	70-130	2.62	25
RDX	4.76		0.100	ug/L	5.00	ND	95.3	70-130	2.59	25
1,3,5-TNB	4.23		0.500	ug/L	5.00	ND	84.6	70-130	3.76	25
1,3-Dinitrobenzene	4.26		0.500	ug/L	5.00	ND	85.2	70-130	1.95	25
NB	4.20		0.500	ug/L	5.00	ND	84.0	70-130	4.78	25
2,4,6-Trinitrotoluene	4.30		0.100	ug/L	5.00	ND	86.1	70-130	2.76	25
Tetryl	4.39		0.500	ug/L	5.00	ND	87.7	70-130	0.321	25
2,6-DNT	4.41		0.500	ug/L	5.00	ND	88.3	70-130	0.881	25
2,4-Dinitrotoluene	4.26		0.100	ug/L	5.00	ND	85.3	70-130	1.64	25
2-Nitrotoluene	4.76		0.500	ug/L	5.00	ND	95.3	70-130	0.915	25
4-Nitrotoluene	4.42		0.500	ug/L	5.00	ND	88.5	70-130	12.7	25
4-Amino-2,6-dinitrotoluene	4.50		0.500	ug/L	5.00	ND	90.0	70-130	5.73	25
3-Nitrotoluene	5.44		0.500	ug/L	5.00	ND	109	70-130	15.9	25
2-Amino-4,6-dinitrotoluene	4.45		0.500	ug/L	5.00	ND	88.9	70-130	2.29	25
Surrogate: 1,2-Dinitrobenzene			*8.15*	*ug/L*	*10.0*		*81.5*	*70-130*		

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Quality Control Data
(Continued)

Semivolatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0064 - Explosives (Continued)										
Matrix Spike Dup (BDI0064-MSD2)		**Source: MDI0024-01**			Prepared: 9/5/2023 Analyzed: 9/15/2023					
HMX	6.55		0.100	ug/L	5.00	1.65	98.0	70-130	0.299	25
RDX	8.88		0.100	ug/L	5.00	3.83	101	70-130	0.456	25
1,3,5-TNB	4.30		0.500	ug/L	5.00	ND	85.9	70-130	2.31	25
1,3-Dinitrobenzene	4.41		0.500	ug/L	5.00	ND	88.2	70-130	1.98	25
NB	4.37		0.500	ug/L	5.00	ND	87.4	70-130	4.15	25
2,4,6-Trinitrotoluene	4.45		0.100	ug/L	5.00	ND	89.1	70-130	1.32	25
Tetryl	4.79		0.500	ug/L	5.00	ND	95.8	70-130	4.52	25
2,6-DNT	4.58		0.500	ug/L	5.00	ND	91.6	70-130	2.03	25
2,4-Dinitrotoluene	4.44		0.100	ug/L	5.00	ND	88.7	70-130	2.00	25
2-Nitrotoluene	4.82		0.500	ug/L	5.00	ND	96.4	70-130	4.90	25
4-Nitrotoluene	4.54		0.500	ug/L	5.00	ND	90.9	70-130	13.8	25
4-Amino-2,6-dinitrotoluene	4.59		0.500	ug/L	5.00	ND	91.7	70-130	6.87	25
3-Nitrotoluene	4.60		0.500	ug/L	5.00	ND	91.9	70-130	6.87	25
2-Amino-4,6-dinitrotoluene	4.39		0.500	ug/L	5.00	ND	87.9	70-130	3.83	25
Surrogate: 1,2-Dinitrobenzene			*7.69*	*ug/L*	*10.0*		*76.9*	*70-130*		
Matrix Spike Dup (BDI0064-MSD3)		**Source: MDI0025-01**			Prepared: 9/5/2023 Analyzed: 9/15/2023					
HMX	4.49		0.100	ug/L	5.00	ND	89.9	70-130	1.17	25
RDX	4.88		0.100	ug/L	5.00	ND	97.7	70-130	0.385	25
1,3,5-TNB	4.18		0.500	ug/L	5.00	ND	83.6	70-130	1.23	25
1,3-Dinitrobenzene	4.20		0.500	ug/L	5.00	ND	84.0	70-130	0.363	25
NB	4.03		0.500	ug/L	5.00	ND	80.6	70-130	2.15	25
2,4,6-Trinitrotoluene	4.26		0.100	ug/L	5.00	ND	85.1	70-130	0.453	25
Tetryl	4.37		0.500	ug/L	5.00	ND	87.4	70-130	3.31	25
2,6-DNT	4.56		0.500	ug/L	5.00	ND	91.3	70-130	4.74	25
2,4-Dinitrotoluene	4.30		0.100	ug/L	5.00	ND	86.1	70-130	0.290	25
2-Nitrotoluene	4.90		0.500	ug/L	5.00	ND	98.0	70-130	4.72	25
4-Nitrotoluene	7.99	M1	0.500	ug/L	5.00	ND	160	70-130	7.30	25
4-Amino-2,6-dinitrotoluene	4.59		0.500	ug/L	5.00	ND	91.9	70-130	10.1	25
3-Nitrotoluene	4.60		0.500	ug/L	5.00	ND	92.1	70-130	10.1	25
2-Amino-4,6-dinitrotoluene	4.27		0.500	ug/L	5.00	ND	85.4	70-130	10.1	25
Surrogate: 1,2-Dinitrobenzene			*7.02*	*ug/L*	*10.0*		*70.2*	*70-130*		

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Quality Control Data
(Continued)

Semivolatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0064 - Explosives (Continued)										
Matrix Spike Dup (BDI0064-MSD4)	**Source: MDI0036-01**				Prepared: 9/5/2023 Analyzed: 9/16/2023					
HMX	5.58		0.100	ug/L	5.00	ND	112	70-130	3.74	25
RDX	5.90		0.100	ug/L	5.00	ND	118	70-130	1.87	25
1,3,5-TNB	5.70		0.500	ug/L	5.00	ND	114	70-130	1.57	25
1,3-Dinitrobenzene	4.99		0.500	ug/L	5.00	ND	99.9	70-130	0.935	25
NB	4.53		0.500	ug/L	5.00	ND	90.5	70-130	4.97	25
2,4,6-Trinitrotoluene	5.80		0.100	ug/L	5.00	ND	116	70-130	2.21	25
Tetryl	4.05		0.500	ug/L	5.00	ND	81.0	70-130	0.763	25
2,6-DNT	4.65		0.500	ug/L	5.00	ND	93.0	70-130	3.40	25
2,4-Dinitrotoluene	4.98		0.100	ug/L	5.00	ND	99.6	70-130	0.456	25
2-Nitrotoluene	4.55		0.500	ug/L	5.00	ND	91.1	70-130	3.17	25
4-Nitrotoluene	3.36	M12	0.500	ug/L	5.00	ND	67.3	70-130	4.06	25
4-Amino-2,6-dinitrotoluene	4.68		0.500	ug/L	5.00	ND	93.5	70-130	2.69	25
3-Nitrotoluene	4.69		0.500	ug/L	5.00	ND	93.7	70-130	2.69	25
2-Amino-4,6-dinitrotoluene	4.24		0.500	ug/L	5.00	ND	84.8	70-130	0.131	25
Surrogate: 1,2-Dinitrobenzene			*7.97*	*ug/L*	*10.0*		*79.7*	*70-130*		

Quality Control Data
(Continued)

Volatiles

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0072 - VOC										
Blank (BDI0072-BLK1)					Prepared & Analyzed: 9/5/2023					
1,1,2,2-Tetrachloroethane	ND		0.500	ug/L						
Dibromochloromethane	ND		0.500	ug/L						
Carbon Tetrachloride	ND		0.500	ug/L						
Methyl ethyl ketone (MEK)	ND		2.50	ug/L						
m/p Xylenes (MCL for total)	ND		0.500	ug/L						
Isopropylbenzene	ND		0.500	ug/L						
Hexachlorobutadiene	ND		0.500	ug/L						
Ethylbenzene	ND		0.500	ug/L						
Naphthalene	ND		0.500	ug/L						
Dibromomethane	ND		0.500	ug/L						
n-Butylbenzene	ND		0.500	ug/L						
cis-1,3-Dichloropropene	ND		0.500	ug/L						
cis-1,2-Dichloroethylene	ND		0.500	ug/L						
Chloromethane	ND		0.500	ug/L						
Chloroform	ND		0.500	ug/L						
Chloroethane	ND		0.500	ug/L						
Chlorobenzene (Monochlorobenzene)	ND		0.500	ug/L						
Dichlorodifluoromethane	ND		0.500	ug/L						
Tetrachloroethylene	ND		0.500	ug/L						
1,1,1-Trichloroethane	ND		0.500	ug/L						
Vinyl Chloride	ND		0.500	ug/L						
Trichloroflouromethane	ND		0.500	ug/L						
Trichloroethene	ND		0.500	ug/L						
trans-1,3-Dichloropropene	ND		0.500	ug/L						
trans-1,2 Dichloroethylene	ND		0.500	ug/L						

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Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0072 - VOC (Continued)										
Blank (BDI0072-BLK1)					Prepared & Analyzed: 9/5/2023					
Methylene Chloride (Dichloromethane)	ND		2.50	ug/L						
Toluene	ND		0.500	ug/L						
Methyl isobutyl ketone (MIBK)	ND		2.50	ug/L						
tert-Butylbenzene	ND		0.500	ug/L						
Styrene	ND		0.500	ug/L						
sec-Butylbenzene	ND		0.500	ug/L						
p-isopropyltoluene	ND		0.500	ug/L						
o-Xylene (MCL for total)	ND		0.500	ug/L						
n-Propylbenzene	ND		0.500	ug/L						
1,2,3-Trichloropropane	ND		0.500	ug/L						
1,2-Dichloropropane	ND		0.500	ug/L						
1,2-Dichloroethane	ND		0.500	ug/L						
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	ND		0.500	ug/L						
EDB (screening)	ND		0.500	ug/L						
DBCP (screening)	ND		0.500	ug/L						
1,3,5-Trimethylbenzene	ND		0.500	ug/L						
1,2,4-Trichlorobenzene	ND		0.500	ug/L						
1,1-Dichloroethane	ND		0.500	ug/L						
1,2,3-Trichlorobenzene	ND		0.500	ug/L						
1,1-Dichloropropene	ND		0.500	ug/L						
1,1-Dichloroethylene	ND		0.500	ug/L						
Carbon disulfide	ND		0.500	ug/L						
1,1,2-Trichlorethane	ND		0.500	ug/L						
methyl-t-butyl ether (MTBE)	ND		0.500	ug/L						
1,1,1,2-Tetrachloroethane	ND		0.500	ug/L						
1,2,4-Trimethylbenzene	ND		0.500	ug/L						
Bromodichloromethane	ND		0.500	ug/L						
m-Dichlorobenzene	ND		0.500	ug/L						
Bromoform	ND		0.500	ug/L						
Bromochloromethane	ND		0.500	ug/L						
Bromobenzene	ND		0.500	ug/L						
Benzene	ND		0.500	ug/L						
Acrylonitrile	ND		0.500	ug/L						
Acetone	ND		2.50	ug/L						
p-Chlorotoluene	ND		0.500	ug/L						
2-hexanone	ND		2.50	ug/L						
o-Chlorotoluene	ND		0.500	ug/L						
2,2-Dichloropropane	ND		0.500	ug/L						
1,4-Dichlorobenzene (para-Dichlorobenzene)	ND		0.500	ug/L						
1,3-Dichloropropane	ND		0.500	ug/L						
Bromomethane	ND		0.500	ug/L						
Surrogate: Toluene-d8			*19.5*	*ug/L*	*20.0*		*97.6*	*70-130*		
Surrogate: 4-Bromofluorobenzene			*19.1*	*ug/L*	*20.0*		*95.5*	*70-130*		
Surrogate: 1,2-Dichlorobenzene-d4			*20.0*	*ug/L*	*20.0*		*100*	*70-130*		

Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0072 - VOC (Continued)										
LCS (BDI0072-BS1)					Prepared & Analyzed: 9/5/2023					
Chloroform	10.3		0.500	ug/L	10.0		103	80-120		
Methyl ethyl ketone (MEK)	10.2		2.50	ug/L	10.0		102	55-154		
m/p Xylenes (MCL for total)	23.0		0.500	ug/L	20.0		115	80-120		
Isopropylbenzene	12.0		0.500	ug/L	10.0		120	80-120		
Hexachlorobutadiene	11.0		0.500	ug/L	10.0		110	80-120		
Ethylbenzene	11.1		0.500	ug/L	10.0		111	80-120		
Dichlorodifluoromethane	11.2		0.500	ug/L	10.0		112	57-130		
Dibromomethane	10.2		0.500	ug/L	10.0		102	80-120		
Carbon Tetrachloride	10.6		0.500	ug/L	10.0		106	80-120		
Dibromochloromethane	9.95		0.500	ug/L	10.0		99.5	80-121		
cis-1,2-Dichloroethylene	10.6		0.500	ug/L	10.0		106	80-120		
Chloroethane	8.34		0.500	ug/L	10.0		83.4	78-120		
Methyl isobutyl ketone (MIBK)	9.62		2.50	ug/L	10.0		96.2	70-136		
tert-Butylbenzene	11.9		0.500	ug/L	10.0		119	80-120		
Chlorobenzene (Monochlorobenzene)	9.40		0.500	ug/L	10.0		94.0	80-120		
cis-1,3-Dichloropropene	9.84		0.500	ug/L	10.0		98.4	79-123		
Styrene	11.9		0.500	ug/L	10.0		119	80-120		
Carbon disulfide	10.1		0.500	ug/L	10.0		101	80-120		
Trichloroethene	10.5		0.500	ug/L	10.0		105	80-120		
trans-1,3-Dichloropropene	9.92		0.500	ug/L	10.0		99.2	69-130		
trans-1,2 Dichloroethylene	10.4		0.500	ug/L	10.0		104	80-120		
sec-Butylbenzene	12.3	L5	0.500	ug/L	10.0		123	80-120		
Tetrachloroethylene	10.8		0.500	ug/L	10.0		108	80-120		
methyl-t-butyl ether (MTBE)	10.2		0.500	ug/L	10.0		102	71-130		
Trichloroflouromethane	10.5		0.500	ug/L	10.0		105	61-140		
p-isopropyltoluene	11.5		0.500	ug/L	10.0		115	80-120		
o-Xylene (MCL for total)	11.5		0.500	ug/L	10.0		115	80-120		
n-Propylbenzene	11.7		0.500	ug/L	10.0		117	80-120		
n-Butylbenzene	11.1		0.500	ug/L	10.0		111	74-122		
Naphthalene	10.1		0.500	ug/L	10.0		101	66-133		
Toluene	10.3		0.500	ug/L	10.0		103	80-120		
Vinyl Chloride	9.63		0.500	ug/L	10.0		96.3	75-120		
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	9.87		0.500	ug/L	10.0		98.7	80-120		
EDB (screening)	10.5		0.500	ug/L	10.0		105	70-130		
DBCP (screening)	9.38		0.500	ug/L	10.0		93.8	71-128		
1,2,4-Trimethylbenzene	12.0		0.500	ug/L	10.0		120	80-120		
1,2,4-Trichlorobenzene	10.9		0.500	ug/L	10.0		109	80-120		
1,2,3-Trichlorobenzene	11.0		0.500	ug/L	10.0		110	78-120		
1,2,3-Trichloropropane	10.1		0.500	ug/L	10.0		101	80-120		
1,1-Dichloroethylene	10.6		0.500	ug/L	10.0		106	70-129		
1,1-Dichloroethane	9.96		0.500	ug/L	10.0		99.6	80-120		
1,1,2-Trichlorethane	9.98		0.500	ug/L	10.0		99.8	80-120		
1,1,2,2-Tetrachloroethane	9.75		0.500	ug/L	10.0		97.5	77-123		
1,1,1-Trichloroethane	10.3		0.500	ug/L	10.0		103	80-120		
Bromoform	9.77		0.500	ug/L	10.0		97.7	68-133		
1,1,1,2-Tetrachloroethane	10.0		0.500	ug/L	10.0		100	80-120		
Acrylonitrile	10.1		0.500	ug/L	10.0		101	73-131		
Bromodichloromethane	9.58		0.500	ug/L	10.0		95.8	80-120		
1,1-Dichloropropene	11.4		0.500	ug/L	10.0		114	80-120		
1,2-Dichloroethane	9.50		0.500	ug/L	10.0		95.0	80-120		

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Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0072 - VOC (Continued)										
LCS (BDI0072-BS1)					Prepared & Analyzed: 9/5/2023					
Bromochloromethane	10.4		0.500	ug/L	10.0		104	80-120		
Benzene	10.3		0.500	ug/L	10.0		103	80-120		
p-Chlorotoluene	11.4		0.500	ug/L	10.0		114	80-124		
m-Dichlorobenzene	9.94		0.500	ug/L	10.0		99.4	80-120		
1,2-Dichloropropane	10.4		0.500	ug/L	10.0		104	80-120		
Bromobenzene	10.3		0.500	ug/L	10.0		103	80-120		
1,3,5-Trimethylbenzene	12.0		0.500	ug/L	10.0		120	80-121		
2-hexanone	9.41		2.50	ug/L	10.0		94.1	65-140		
1,3-Dichloropropane	10.5		0.500	ug/L	10.0		105	80-120		
1,4-Dichlorobenzene (para-Dichlorobenzene)	9.94		0.500	ug/L	10.0		99.4	80-120		
2,2-Dichloropropane	10.2		0.500	ug/L	10.0		102	80-120		
o-Chlorotoluene	12.0		0.500	ug/L	10.0		120	80-120		
Surrogate: Toluene-d8			*20.1*	*ug/L*	*20.0*		*101*	*70-130*		
Surrogate: 4-Bromofluorobenzene			*20.4*	*ug/L*	*20.0*		*102*	*70-130*		
Surrogate: 1,2-Dichlorobenzene-d4			*20.0*	*ug/L*	*20.0*		*100*	*70-130*		
Matrix Spike (BDI0072-MS1)		**Source: MDI0021-01**			Prepared & Analyzed: 9/5/2023					
Ethylbenzene	9.49		0.500	ug/L	10.0	ND	94.9	70-130		
Carbon Tetrachloride	9.68		0.500	ug/L	10.0	ND	96.8	70-130		
Methyl ethyl ketone (MEK)	8.68		2.50	ug/L	10.0	ND	86.8	47-165		
m/p Xylenes (MCL for total)	18.4		0.500	ug/L	20.0	ND	92.0	57-130		
Isopropylbenzene	9.30		0.500	ug/L	10.0	ND	93.0	70-130		
Hexachlorobutadiene	9.44		0.500	ug/L	10.0	ND	94.4	70-130		
methyl-t-butyl ether (MTBE)	7.66		0.500	ug/L	10.0	ND	76.6	57-138		
Dichlorodifluoromethane	8.87		0.500	ug/L	10.0	ND	88.7	57-136		
Dibromomethane	9.39		0.500	ug/L	10.0	ND	93.9	70-130		
Dibromochloromethane	9.01		0.500	ug/L	10.0	ND	90.1	70-130		
cis-1,3-Dichloropropene	7.87		0.500	ug/L	10.0	ND	78.7	74-124		
cis-1,2-Dichloroethylene	8.92		0.500	ug/L	10.0	ND	89.2	70-130		
Chloroform	9.81		0.500	ug/L	10.0	ND	98.1	70-130		
Chlorobenzene (Monochlorobenzene)	9.13		0.500	ug/L	10.0	ND	91.3	70-130		
Chloroethane	11.2		0.500	ug/L	10.0	ND	112	68-138		
Tetrachloroethylene	9.28		0.500	ug/L	10.0	ND	92.8	70-130		
Methyl isobutyl ketone (MIBK)	8.45		2.50	ug/L	10.0	ND	84.5	53-167		
Vinyl Chloride	10.2		0.500	ug/L	10.0	ND	102	70-130		
Carbon disulfide	9.53		0.500	ug/L	10.0	ND	95.3	70-130		
Trichloroethene	8.79		0.500	ug/L	10.0	ND	87.9	70-130		
trans-1,3-Dichloropropene	8.07		0.500	ug/L	10.0	ND	80.7	61-131		
trans-1,2 Dichloroethylene	9.44		0.500	ug/L	10.0	ND	94.4	70-130		
Trichloroflouromethane	9.86		0.500	ug/L	10.0	ND	98.6	50-154		
Toluene	9.59		0.500	ug/L	10.0	ND	95.9	70-130		
n-Butylbenzene	9.46		0.500	ug/L	10.0	ND	94.6	67-130		
tert-Butylbenzene	9.70		0.500	ug/L	10.0	ND	97.0	70-130		
Styrene	10.1		0.500	ug/L	10.0	ND	101	30-130		
sec-Butylbenzene	10.2		0.500	ug/L	10.0	ND	102	70-130		
p-isopropyltoluene	9.84		0.500	ug/L	10.0	ND	98.4	70-130		
o-Xylene (MCL for total)	9.19		0.500	ug/L	10.0	ND	91.9	62-127		
n-Propylbenzene	10.3		0.500	ug/L	10.0	ND	103	70-130		
1,1-Dichloropropene	9.87		0.500	ug/L	10.0	ND	98.7	70-130		
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	9.09		0.500	ug/L	10.0	ND	90.9	70-130		

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Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0072 - VOC (Continued)										
Matrix Spike (BDI0072-MS1)	**Source: MDI0021-01**				Prepared & Analyzed: 9/5/2023					
EDB (screening)	9.33		0.500	ug/L	10.0	ND	93.3	70-130		
DBCP (screening)	8.02		0.500	ug/L	10.0	ND	80.2	55-146		
1,2,4-Trimethylbenzene	10.4		0.500	ug/L	10.0	ND	104	40-140		
1,1,1,2-Tetrachloroethane	9.41		0.500	ug/L	10.0	ND	94.1	70-130		
Bromoform	8.77		0.500	ug/L	10.0	ND	87.7	59-140		
1,2,4-Trichlorobenzene	7.41		0.500	ug/L	10.0	ND	74.1	70-130		
1,1-Dichloroethylene	8.68		0.500	ug/L	10.0	ND	86.8	70-130		
1,1-Dichloroethane	9.26		0.500	ug/L	10.0	ND	92.6	70-130		
1,1,2-Trichlorethane	9.53		0.500	ug/L	10.0	ND	95.3	70-130		
1,1,2,2-Tetrachloroethane	10.0		0.500	ug/L	10.0	ND	100	67-136		
1,1,1-Trichloroethane	9.50		0.500	ug/L	10.0	ND	95.0	70-130		
Naphthalene	7.22		0.500	ug/L	10.0	ND	72.2	56-147		
1,2,3-Trichloropropane	9.63		0.500	ug/L	10.0	ND	96.3	69-137		
p-Chlorotoluene	10.5		0.500	ug/L	10.0	ND	105	70-130		
Bromodichloromethane	9.19		0.500	ug/L	10.0	ND	91.9	70-130		
1,2,3-Trichlorobenzene	8.42		0.500	ug/L	10.0	ND	84.2	67-134		
1,2-Dichloroethane	9.54		0.500	ug/L	10.0	ND	95.4	70-130		
Bromobenzene	9.31		0.500	ug/L	10.0	ND	93.1	70-130		
Acrylonitrile	9.38		0.500	ug/L	10.0	ND	93.8	65-137		
Bromochloromethane	9.53		0.500	ug/L	10.0	ND	95.3	70-130		
2-hexanone	8.24		2.50	ug/L	10.0	ND	82.4	43-175		
o-Chlorotoluene	10.3		0.500	ug/L	10.0	ND	103	70-130		
2,2-Dichloropropane	8.60		0.500	ug/L	10.0	ND	86.0	70-130		
1,4-Dichlorobenzene (para-Dichlorobenzene)	9.02		0.500	ug/L	10.0	ND	90.2	70-130		
1,3-Dichloropropane	9.46		0.500	ug/L	10.0	ND	94.6	70-130		
m-Dichlorobenzene	9.02		0.500	ug/L	10.0	ND	90.2	70-130		
1,3,5-Trimethylbenzene	10.4		0.500	ug/L	10.0	ND	104	40-140		
1,2-Dichloropropane	9.20		0.500	ug/L	10.0	ND	92.0	70-130		
Benzene	9.50		0.500	ug/L	10.0	ND	95.0	70-130		
Surrogate: Toluene-d8			*20.8*	*ug/L*	*20.0*		*104*	*70-130*		
Surrogate: 4-Bromofluorobenzene			*21.0*	*ug/L*	*20.0*		*105*	*70-130*		
Surrogate: 1,2-Dichlorobenzene-d4			*20.0*	*ug/L*	*20.0*		*100*	*70-130*		

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Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0072 - VOC (Continued)										
Matrix Spike Dup (BDI0072-MSD1)	**Source: MDI0021-01**				Prepared & Analyzed: 9/5/2023					
Ethylbenzene	9.90		0.500	ug/L	10.0	ND	99.0	70-130	4.23	20
Methyl isobutyl ketone (MIBK)	8.76		2.50	ug/L	10.0	ND	87.6	53-167	3.60	20
Methyl ethyl ketone (MEK)	9.06		2.50	ug/L	10.0	ND	90.6	47-165	4.28	20
m/p Xylenes (MCL for total)	19.6		0.500	ug/L	20.0	ND	98.1	57-130	6.42	20
Isopropylbenzene	9.96		0.500	ug/L	10.0	ND	99.6	70-130	6.85	20
Hexachlorobutadiene	10.4		0.500	ug/L	10.0	ND	104	70-130	9.68	20
Dichlorodifluoromethane	9.44		0.500	ug/L	10.0	ND	94.4	57-136	6.23	20
Dibromomethane	9.55		0.500	ug/L	10.0	ND	95.5	70-130	1.69	20
Dibromochloromethane	8.95		0.500	ug/L	10.0	ND	89.5	70-130	0.668	20
cis-1,3-Dichloropropene	8.44		0.500	ug/L	10.0	ND	84.4	74-124	6.99	20
cis-1,2-Dichloroethylene	9.64		0.500	ug/L	10.0	ND	96.4	70-130	7.76	20
Chloroform	10.0		0.500	ug/L	10.0	ND	100	70-130	2.22	20
Chlorobenzene (Monochlorobenzene)	9.02		0.500	ug/L	10.0	ND	90.2	70-130	1.21	20
Chloroethane	11.9		0.500	ug/L	10.0	ND	119	68-138	6.07	20
tert-Butylbenzene	10.3		0.500	ug/L	10.0	ND	103	70-130	6.10	20
1,2-Dichloroethane	9.49		0.500	ug/L	10.0	ND	94.9	70-130	0.525	20
Trichloroflouromethane	10.4		0.500	ug/L	10.0	ND	104	50-154	4.95	20
Carbon Tetrachloride	10.0		0.500	ug/L	10.0	ND	100	70-130	3.35	20
trans-1,3-Dichloropropene	8.46		0.500	ug/L	10.0	ND	84.6	61-131	4.72	20
trans-1,2 Dichloroethylene	10.0		0.500	ug/L	10.0	ND	100	70-130	5.76	20
Trichloroethene	9.56		0.500	ug/L	10.0	ND	95.6	70-130	8.39	20
Tetrachloroethylene	9.68		0.500	ug/L	10.0	ND	96.8	70-130	4.22	20
methyl-t-butyl ether (MTBE)	8.29		0.500	ug/L	10.0	ND	82.9	57-138	7.90	20
Styrene	10.3		0.500	ug/L	10.0	ND	103	30-130	2.06	20
sec-Butylbenzene	10.7		0.500	ug/L	10.0	ND	107	70-130	5.27	20
p-isopropyltoluene	10.2		0.500	ug/L	10.0	ND	102	70-130	3.49	20
o-Xylene (MCL for total)	9.80		0.500	ug/L	10.0	ND	98.0	62-127	6.42	20
n-Propylbenzene	10.6		0.500	ug/L	10.0	ND	106	70-130	2.88	20
n-Butylbenzene	10.4		0.500	ug/L	10.0	ND	104	67-130	9.47	20
Naphthalene	8.15		0.500	ug/L	10.0	ND	81.5	56-147	12.1	20
Toluene	10.0		0.500	ug/L	10.0	ND	100	70-130	4.29	20
1,1-Dichloroethylene	9.64		0.500	ug/L	10.0	ND	96.4	70-130	10.5	20
EDB (screening)	9.49		0.500	ug/L	10.0	ND	94.9	70-130	1.70	20
DBCP (screening)	8.61		0.500	ug/L	10.0	ND	86.1	55-146	7.10	20
1,2,4-Trimethylbenzene	10.7		0.500	ug/L	10.0	ND	107	40-140	2.65	20
1,2,4-Trichlorobenzene	8.39		0.500	ug/L	10.0	ND	83.9	70-130	12.4	20
1,2,3-Trichloropropane	9.50		0.500	ug/L	10.0	ND	95.0	69-137	1.36	20
1,3,5-Trimethylbenzene	10.7		0.500	ug/L	10.0	ND	107	40-140	2.65	20
1,1-Dichloropropene	10.5		0.500	ug/L	10.0	ND	105	70-130	6.57	20
1,2-Dichloropropane	9.79		0.500	ug/L	10.0	ND	97.9	70-130	6.21	20
1,1-Dichloroethane	9.80		0.500	ug/L	10.0	ND	98.0	70-130	5.67	20
1,1,2-Trichlorethane	9.38		0.500	ug/L	10.0	ND	93.8	70-130	1.59	20
1,1,2,2-Tetrachloroethane	9.71		0.500	ug/L	10.0	ND	97.1	67-136	3.04	20
1,1,1-Trichloroethane	9.94		0.500	ug/L	10.0	ND	99.4	70-130	4.53	20
1,1,1,2-Tetrachloroethane	9.49		0.500	ug/L	10.0	ND	94.9	70-130	0.847	20
Vinyl Chloride	10.7		0.500	ug/L	10.0	ND	107	70-130	4.40	20
1,2,3-Trichlorobenzene	9.29		0.500	ug/L	10.0	ND	92.9	67-134	9.82	20
2-hexanone	8.39		2.50	ug/L	10.0	ND	83.9	43-175	1.80	20
Bromoform	8.62		0.500	ug/L	10.0	ND	86.2	59-140	1.73	20
Bromodichloromethane	9.40		0.500	ug/L	10.0	ND	94.0	70-130	2.26	20

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Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0072 - VOC (Continued)										
Matrix Spike Dup (BDI0072-MSD1)	**Source: MDI0021-01**				Prepared & Analyzed: 9/5/2023					
Bromochloromethane	9.65		0.500	ug/L	10.0	ND	96.5	70-130	1.25	20
Bromobenzene	9.39		0.500	ug/L	10.0	ND	93.9	70-130	0.856	20
Benzene	9.98		0.500	ug/L	10.0	ND	99.8	70-130	4.93	20
Acrylonitrile	9.54		0.500	ug/L	10.0	ND	95.4	65-137	1.69	20
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	9.46		0.500	ug/L	10.0	ND	94.6	70-130	3.99	20
o-Chlorotoluene	10.6		0.500	ug/L	10.0	ND	106	70-130	2.98	20
2,2-Dichloropropane	9.32		0.500	ug/L	10.0	ND	93.2	70-130	8.04	20
1,4-Dichlorobenzene (para-Dichlorobenzene)	9.51		0.500	ug/L	10.0	ND	95.1	70-130	5.29	20
1,3-Dichloropropane	9.58		0.500	ug/L	10.0	ND	95.8	70-130	1.26	20
m-Dichlorobenzene	9.51		0.500	ug/L	10.0	ND	95.1	70-130	5.29	20
Carbon disulfide	10.1		0.500	ug/L	10.0	ND	101	70-130	5.81	20
p-Chlorotoluene	10.6		0.500	ug/L	10.0	ND	106	70-130	1.71	20
Surrogate: Toluene-d8			*20.5*	*ug/L*	*20.0*		*103*	*70-130*		
Surrogate: 4-Bromofluorobenzene			*20.4*	*ug/L*	*20.0*		*102*	*70-130*		
Surrogate: 1,2-Dichlorobenzene-d4			*20.0*	*ug/L*	*20.0*		*100*	*70-130*		

ANATEK LABS

Chain of Custody Record

Anatek Labs, Inc.
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MDI0022

Company Name: PBS Engineering and Environmental	Project Manager: Scott Braunsten
Address: 4412 S Corbett Ave	Project Name & #: Camp Bonneville, 76151.012
City: Portland State: OR Zip: 97239	Purchase Order #:
Phone: 503-248-1939	Sampler Name & Phone: Riley Martin 702-379-7799
Email Address(es): scott.braunsten@pbsusa.com, samantha.eckes@pbsusa.com	

Turn Around Time & Reporting

Please refer to www.ana

✓ Normal
__ Next Day*
__ 2nd Day*
__ Other*_____

Due: 09/18/23

List Analyses Requested

Lab ID	Sample Identification	Sampling Date/Time	Matrix	Preservative:	# of Containers	Sample Volume	VOCs by 8260B	Explosives by 8330	Perchlorate by 6850
	03Q23L4MW02AW	8-31-23 1115	H2O		6		X	X	X
	03Q23L4MW03BW	1020			6		X	X	X
	03Q23L4MW04AW	1515			6		X	X	X
	03Q23L4MW05AW	915			6		X	X	X

Note Special Instructions/Comments

Please send login confirmation

Please provide EQuIS EDD + WA EIM

Run Data Package III

Inspection Checklist

Received Intact?	Y	N
Labels & Chains Agree?	Y	N
Containers Sealed?	Y	N
No VOC Head Space?	Y	N
Cooler?	Y	N
Ice/Ice Packs Present?	Y	N

Temperature (°C):_____
Number of Containers:_____
Shipped Via:_____
Preservative:_____
Date & Time:_____
Inspected By:_____

	Printed Name	Signature	Company	Date	Time
Relinquished by	RILEY MARTIN		PBS	8-31-23	1616
Received by	TB			9/1/23	13:44
Relinquished by					
Received by					
Relinquished by					
Received by					

Samples submitted to Anatek Labs may be subcontacted to other accredited labs if necessary. This message serves as notice of this possibility. Subcontracted analyses will be clearly noted on the analytical report.

Anatek Labs, Inc.

Sample Receipt and Preservation Form

Client Name: PBS

TAT: (Normal) RUSH: _____ days

Samples Received From: (FedEx) UPS USPS Client Courier Other: _____

Custody Seal on Cooler/Box: Yes (No) Custody Seals Intact: Yes No (N/A)

Number of Coolers/Boxes: 8 Type of Ice: (Wet Ice) Ice Packs Dry Ice None

Packing Material: (Bubble Wrap) (Bags) Foam/Peanuts Paper None Other: _____

Cooler Temp As Read (°C): 4.8 °C Cooler Temp Corrected (°C): — Thermometer Used: IR-5

				Comments:
Samples Received Intact?	(Yes)	No	N/A	
Chain of Custody Present/Complete?	(Yes)	No	N/A	
Labels and Chains Agree?	(Yes)	No	N/A	
Samples Received Within Hold Time?	(Yes)	No	N/A	
Correct Containers Received?	(Yes)	No	N/A	
Anatek Bottles Used?	(Yes)	No	Unknown	
Total Number of Sample Bottles Received: 24				

				Initial pH:	pH Paper ID:
Samples Properly Preserved?	(Yes)	No	N/A	<2 or	
If No, record preservation and pH-after details					
VOC Vials Free of Headspace (<6mm)?	(Yes)	No	N/A		
VOC Trip Blanks Present?	(Yes)	No	N/A		

Record preservatives (and lot numbers, if known) for containers below:

644 HCl 8260 x 12

GIL Explosives x 8

P125 Perchlorate x 4

Notes, comments, etc. (also use this space if contacting the client - record names and date/time)

Received/Inspected By: TB Date/Time: 9/1/23 13:44

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Client:	PBS Engineering - Portland	Work Order:	MDI0024
Address:	4412 SW Corbett Ave	Project:	Camp Bonneville, 76151.012
	Portland, OR 97239	Reported:	10/23/2023 11:38
Attn:	Scott Braunsten		

Analytical Results Report

Sample Location:	03Q23L4MW02AW		
Lab/Sample Number:	MDI0024-01	Collect Date:	08/31/23 12:10
Date Received:	09/01/23 13:44	Collected By:	
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Perchlorate	182	ug/L	25.0	9/18/23 10:17	GPB	EPA 6850	
Semivolatiles							
1,3,5-TNB	ND	ug/L	0.500	9/15/23 16:40	MER	EPA 8330B	
1,3-Dinitrobenzene	ND	ug/L	0.500	9/15/23 16:40	MER	EPA 8330B	
2,4,6-Trinitrotoluene	ND	ug/L	0.100	9/15/23 16:40	MER	EPA 8330B	
2,4-Dinitrotoluene	ND	ug/L	0.100	9/15/23 16:40	MER	EPA 8330B	
2,6-DNT	ND	ug/L	0.500	9/15/23 16:40	MER	EPA 8330B	
2-Amino-4,6-dinitrotoluene	ND	ug/L	0.500	9/15/23 16:40	MER	EPA 8330B	
2-Nitrotoluene	ND	ug/L	0.500	9/15/23 16:40	MER	EPA 8330B	
3-Nitrotoluene	ND	ug/L	0.500	9/15/23 16:40	MER	EPA 8330B	
4-Amino-2,6-dinitrotoluene	ND	ug/L	0.500	9/15/23 16:40	MER	EPA 8330B	
4-Nitrotoluene	ND	ug/L	0.500	9/15/23 16:40	MER	EPA 8330B	
HMX	1.65	ug/L	0.100	9/15/23 16:40	MER	EPA 8330B	
NB	ND	ug/L	0.500	9/15/23 16:40	MER	EPA 8330B	
RDX	3.83	ug/L	0.100	9/15/23 16:40	MER	EPA 8330B	
Tetryl	ND	ug/L	0.500	9/15/23 16:40	MER	EPA 8330B	
Surrogate: 1,2-Dinitrobenzene	*76.7%*		*70-130*	*9/15/23 16:40*	*MER*	*EPA 8330B*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	9/6/23 12:13	BKP	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	9/6/23 12:13	BKP	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	9/6/23 12:13	BKP	EPA 8260D	
1,1,2-Trichloroethane	ND	ug/L	0.500	9/6/23 12:13	BKP	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	9/6/23 12:13	BKP	EPA 8260D	
1,1-Dichloroethene	ND	ug/L	0.500	9/6/23 12:13	BKP	EPA 8260D	
1,1-dichloropropene	ND	ug/L	0.500	9/6/23 12:13	BKP	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	9/6/23 12:13	BKP	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	9/6/23 12:13	BKP	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	9/6/23 12:13	BKP	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	9/6/23 12:13	BKP	EPA 8260D	
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.500	9/6/23 12:13	BKP	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	ug/L	0.500	9/6/23 12:13	BKP	EPA 8260D	
1,2-Dichlorobenzene	ND	ug/L	0.500	9/6/23 12:13	BKP	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	9/6/23 12:13	BKP	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	9/6/23 12:13	BKP	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	9/6/23 12:13	BKP	EPA 8260D	
1,3-Dichlorobenzene	ND	ug/L	0.500	9/6/23 12:13	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location:	03Q23L4MW02AW		
Lab/Sample Number:	MDI0024-01	Collect Date:	08/31/23 12:10
Date Received:	09/01/23 13:44	Collected By:	
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
1,3-Dichloropropane	ND	ug/L	0.500	9/6/23 12:13	BKP	EPA 8260D	
1,4-Dichlorobenzene	ND	ug/L	0.500	9/6/23 12:13	BKP	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	9/6/23 12:13	BKP	EPA 8260D	
2-Chlorotoluene	ND	ug/L	0.500	9/6/23 12:13	BKP	EPA 8260D	
2-hexanone	ND	ug/L	2.50	9/6/23 12:13	BKP	EPA 8260D	
4-Chlorotoluene	ND	ug/L	0.500	9/6/23 12:13	BKP	EPA 8260D	
Acetone	4.16	ug/L	2.50	9/6/23 12:13	BKP	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	9/6/23 12:13	BKP	EPA 8260D	
Benzene	ND	ug/L	0.500	9/6/23 12:13	BKP	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	9/6/23 12:13	BKP	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	9/6/23 12:13	BKP	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	9/6/23 12:13	BKP	EPA 8260D	
Bromoform	ND	ug/L	0.500	9/6/23 12:13	BKP	EPA 8260D	
Bromomethane	ND	ug/L	0.500	9/6/23 12:13	BKP	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	9/6/23 12:13	BKP	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	9/6/23 12:13	BKP	EPA 8260D	
Chlorobenzene	ND	ug/L	0.500	9/6/23 12:13	BKP	EPA 8260D	
Chloroethane	ND	ug/L	0.500	9/6/23 12:13	BKP	EPA 8260D	
Chloroform	ND	ug/L	0.500	9/6/23 12:13	BKP	EPA 8260D	
Chloromethane	ND	ug/L	0.500	9/6/23 12:13	BKP	EPA 8260D	
cis-1,2-dichloroethene	ND	ug/L	0.500	9/6/23 12:13	BKP	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	9/6/23 12:13	BKP	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	9/6/23 12:13	BKP	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	9/6/23 12:13	BKP	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	9/6/23 12:13	BKP	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	9/6/23 12:13	BKP	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	9/6/23 12:13	BKP	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	9/6/23 12:13	BKP	EPA 8260D	
m+p-Xylene	ND	ug/L	0.500	9/6/23 12:13	BKP	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	9/6/23 12:13	BKP	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	9/6/23 12:13	BKP	EPA 8260D	
Methylene chloride	ND	ug/L	2.50	9/6/23 12:13	BKP	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	9/6/23 12:13	BKP	EPA 8260D	
Naphthalene	ND	ug/L	0.500	9/6/23 12:13	BKP	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	9/6/23 12:13	BKP	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	9/6/23 12:13	BKP	EPA 8260D	
o-Xylene	ND	ug/L	0.500	9/6/23 12:13	BKP	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	9/6/23 12:13	BKP	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	9/6/23 12:13	BKP	EPA 8260D	
Styrene	ND	ug/L	0.500	9/6/23 12:13	BKP	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	9/6/23 12:13	BKP	EPA 8260D	
Tetrachloroethene	ND	ug/L	0.500	9/6/23 12:13	BKP	EPA 8260D	
Toluene	ND	ug/L	0.500	9/6/23 12:13	BKP	EPA 8260D	
trans-1,2-Dichloroethene	ND	ug/L	0.500	9/6/23 12:13	BKP	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	9/6/23 12:13	BKP	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	9/6/23 12:13	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location:	03Q23L4MW02AW		
Lab/Sample Number:	MDI0024-01	Collect Date:	08/31/23 12:10
Date Received:	09/01/23 13:44	Collected By:	
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Trichlorofluoromethane	ND	ug/L	0.500	9/6/23 12:13	BKP	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	9/6/23 12:13	BKP	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*100%*		*70-130*	*9/6/23 12:13*	*BKP*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*91.8%*		*70-130*	*9/6/23 12:13*	*BKP*	*EPA 8260D*	
Surrogate: Toluene-d8	*97.6%*		*70-130*	*9/6/23 12:13*	*BKP*	*EPA 8260D*	

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Analytical Results Report

(Continued)

Sample Location: 03Q23L4MW08BW
Lab/Sample Number: MDI0024-02 Collect Date: 08/31/23 13:35
Date Received: 09/01/23 13:44 Collected By:
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Perchlorate	135	ug/L	25.0	9/18/23 10:39	GPB	EPA 6850	
Semivolatiles							
1,3,5-TNB	ND	ug/L	0.500	9/15/23 18:33	MER	EPA 8330B	
1,3-Dinitrobenzene	ND	ug/L	0.500	9/15/23 18:33	MER	EPA 8330B	
2,4,6-Trinitrotoluene	ND	ug/L	0.100	9/15/23 18:33	MER	EPA 8330B	
2,4-Dinitrotoluene	ND	ug/L	0.100	9/15/23 18:33	MER	EPA 8330B	
2,6-DNT	ND	ug/L	0.500	9/15/23 18:33	MER	EPA 8330B	
2-Amino-4,6-dinitrotoluene	ND	ug/L	0.500	9/15/23 18:33	MER	EPA 8330B	
2-Nitrotoluene	ND	ug/L	0.500	9/15/23 18:33	MER	EPA 8330B	
3-Nitrotoluene	ND	ug/L	0.500	9/15/23 18:33	MER	EPA 8330B	
4-Amino-2,6-dinitrotoluene	ND	ug/L	0.500	9/15/23 18:33	MER	EPA 8330B	
4-Nitrotoluene	ND	ug/L	0.500	9/15/23 18:33	MER	EPA 8330B	
HMX	ND	ug/L	0.100	9/15/23 18:33	MER	EPA 8330B	
NB	ND	ug/L	0.500	9/15/23 18:33	MER	EPA 8330B	
RDX	0.196	ug/L	0.100	9/15/23 18:33	MER	EPA 8330B	
Tetryl	ND	ug/L	0.500	9/15/23 18:33	MER	EPA 8330B	
Surrogate: 1,2-Dinitrobenzene	*81.4%*		*70-130*	*9/15/23 18:33*	*MER*	*EPA 8330B*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	9/6/23 14:55	BKP	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	9/6/23 14:55	BKP	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	9/6/23 14:55	BKP	EPA 8260D	
1,1,2-Trichloroethane	ND	ug/L	0.500	9/6/23 14:55	BKP	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	9/6/23 14:55	BKP	EPA 8260D	
1,1-Dichloroethene	ND	ug/L	0.500	9/6/23 14:55	BKP	EPA 8260D	
1,1-dichloropropene	ND	ug/L	0.500	9/6/23 14:55	BKP	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	9/6/23 14:55	BKP	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	9/6/23 14:55	BKP	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	9/6/23 14:55	BKP	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	9/6/23 14:55	BKP	EPA 8260D	
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.500	9/6/23 14:55	BKP	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	ug/L	0.500	9/6/23 14:55	BKP	EPA 8260D	
1,2-Dichlorobenzene	ND	ug/L	0.500	9/6/23 14:55	BKP	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	9/6/23 14:55	BKP	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	9/6/23 14:55	BKP	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	9/6/23 14:55	BKP	EPA 8260D	
1,3-Dichlorobenzene	ND	ug/L	0.500	9/6/23 14:55	BKP	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	9/6/23 14:55	BKP	EPA 8260D	
1,4-Dichlorobenzene	ND	ug/L	0.500	9/6/23 14:55	BKP	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	9/6/23 14:55	BKP	EPA 8260D	
2-Chlorotoluene	ND	ug/L	0.500	9/6/23 14:55	BKP	EPA 8260D	
2-hexanone	ND	ug/L	2.50	9/6/23 14:55	BKP	EPA 8260D	
4-Chlorotoluene	ND	ug/L	0.500	9/6/23 14:55	BKP	EPA 8260D	
Acetone	3.09	ug/L	2.50	9/6/23 14:55	BKP	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	9/6/23 14:55	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location:	03Q23L4MW08BW		
Lab/Sample Number:	MDI0024-02	Collect Date:	08/31/23 13:35
Date Received:	09/01/23 13:44	Collected By:	
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Benzene	ND	ug/L	0.500	9/6/23 14:55	BKP	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	9/6/23 14:55	BKP	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	9/6/23 14:55	BKP	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	9/6/23 14:55	BKP	EPA 8260D	
Bromoform	ND	ug/L	0.500	9/6/23 14:55	BKP	EPA 8260D	
Bromomethane	ND	ug/L	0.500	9/6/23 14:55	BKP	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	9/6/23 14:55	BKP	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	9/6/23 14:55	BKP	EPA 8260D	
Chlorobenzene	ND	ug/L	0.500	9/6/23 14:55	BKP	EPA 8260D	
Chloroethane	ND	ug/L	0.500	9/6/23 14:55	BKP	EPA 8260D	
Chloroform	ND	ug/L	0.500	9/6/23 14:55	BKP	EPA 8260D	
Chloromethane	ND	ug/L	0.500	9/6/23 14:55	BKP	EPA 8260D	
cis-1,2-dichloroethene	ND	ug/L	0.500	9/6/23 14:55	BKP	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	9/6/23 14:55	BKP	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	9/6/23 14:55	BKP	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	9/6/23 14:55	BKP	EPA 8260D	
Dichlorodifluoromethane	0.870	ug/L	0.500	9/6/23 14:55	BKP	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	9/6/23 14:55	BKP	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	9/6/23 14:55	BKP	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	9/6/23 14:55	BKP	EPA 8260D	
m+p-Xylene	ND	ug/L	0.500	9/6/23 14:55	BKP	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	9/6/23 14:55	BKP	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	9/6/23 14:55	BKP	EPA 8260D	
Methylene chloride	ND	ug/L	2.50	9/6/23 14:55	BKP	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	9/6/23 14:55	BKP	EPA 8260D	
Naphthalene	ND	ug/L	0.500	9/6/23 14:55	BKP	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	9/6/23 14:55	BKP	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	9/6/23 14:55	BKP	EPA 8260D	
o-Xylene	ND	ug/L	0.500	9/6/23 14:55	BKP	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	9/6/23 14:55	BKP	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	9/6/23 14:55	BKP	EPA 8260D	
Styrene	ND	ug/L	0.500	9/6/23 14:55	BKP	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	9/6/23 14:55	BKP	EPA 8260D	
Tetrachloroethene	ND	ug/L	0.500	9/6/23 14:55	BKP	EPA 8260D	
Toluene	ND	ug/L	0.500	9/6/23 14:55	BKP	EPA 8260D	
trans-1,2-Dichloroethene	ND	ug/L	0.500	9/6/23 14:55	BKP	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	9/6/23 14:55	BKP	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	9/6/23 14:55	BKP	EPA 8260D	
Trichlorofluoromethane	ND	ug/L	0.500	9/6/23 14:55	BKP	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	9/6/23 14:55	BKP	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*100%*		*70-130*	*9/6/23 14:55*	*BKP*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*88.4%*		*70-130*	*9/6/23 14:55*	*BKP*	*EPA 8260D*	
Surrogate: Toluene-d8	*97.8%*		*70-130*	*9/6/23 14:55*	*BKP*	*EPA 8260D*	

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Analytical Results Report

(Continued)

Sample Location:	03Q23L4MW08BW		
Lab/Sample Number:	MDI0024-02	Collect Date:	08/31/23 13:35
Date Received:	09/01/23 13:44	Collected By:	
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							

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Analytical Results Report

(Continued)

Sample Location: 03Q23L4MW08AW
Lab/Sample Number: MDI0024-03 Collect Date: 08/31/23 14:15
Date Received: 09/01/23 13:44 Collected By:
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Perchlorate	103	ug/L	25.0	9/18/23 10:46	GPB	EPA 6850	
Semivolatiles							
1,3,5-TNB	ND	ug/L	0.500	9/15/23 19:10	MER	EPA 8330B	
1,3-Dinitrobenzene	ND	ug/L	0.500	9/15/23 19:10	MER	EPA 8330B	
2,4,6-Trinitrotoluene	ND	ug/L	0.100	9/15/23 19:10	MER	EPA 8330B	
2,4-Dinitrotoluene	ND	ug/L	0.100	9/15/23 19:10	MER	EPA 8330B	
2,6-DNT	ND	ug/L	0.500	9/15/23 19:10	MER	EPA 8330B	
2-Amino-4,6-dinitrotoluene	ND	ug/L	0.500	9/15/23 19:10	MER	EPA 8330B	
2-Nitrotoluene	ND	ug/L	0.500	9/15/23 19:10	MER	EPA 8330B	
3-Nitrotoluene	ND	ug/L	0.500	9/15/23 19:10	MER	EPA 8330B	
4-Amino-2,6-dinitrotoluene	ND	ug/L	0.500	9/15/23 19:10	MER	EPA 8330B	
4-Nitrotoluene	ND	ug/L	0.500	9/15/23 19:10	MER	EPA 8330B	
HMX	0.944	ug/L	0.100	9/15/23 19:10	MER	EPA 8330B	
NB	ND	ug/L	0.500	9/15/23 19:10	MER	EPA 8330B	
RDX	17.7	ug/L	0.100	9/15/23 19:10	MER	EPA 8330B	
Tetryl	ND	ug/L	0.500	9/15/23 19:10	MER	EPA 8330B	
Surrogate: 1,2-Dinitrobenzene	*75.0%*		*70-130*	*9/15/23 19:10*	*MER*	*EPA 8330B*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	9/6/23 15:28	BKP	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	9/6/23 15:28	BKP	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	9/6/23 15:28	BKP	EPA 8260D	
1,1,2-Trichloroethane	ND	ug/L	0.500	9/6/23 15:28	BKP	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	9/6/23 15:28	BKP	EPA 8260D	
1,1-Dichloroethene	ND	ug/L	0.500	9/6/23 15:28	BKP	EPA 8260D	
1,1-dichloropropene	ND	ug/L	0.500	9/6/23 15:28	BKP	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	9/6/23 15:28	BKP	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	9/6/23 15:28	BKP	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	9/6/23 15:28	BKP	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	9/6/23 15:28	BKP	EPA 8260D	
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.500	9/6/23 15:28	BKP	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	ug/L	0.500	9/6/23 15:28	BKP	EPA 8260D	
1,2-Dichlorobenzene	ND	ug/L	0.500	9/6/23 15:28	BKP	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	9/6/23 15:28	BKP	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	9/6/23 15:28	BKP	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	9/6/23 15:28	BKP	EPA 8260D	
1,3-Dichlorobenzene	ND	ug/L	0.500	9/6/23 15:28	BKP	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	9/6/23 15:28	BKP	EPA 8260D	
1,4-Dichlorobenzene	ND	ug/L	0.500	9/6/23 15:28	BKP	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	9/6/23 15:28	BKP	EPA 8260D	
2-Chlorotoluene	ND	ug/L	0.500	9/6/23 15:28	BKP	EPA 8260D	
2-hexanone	ND	ug/L	2.50	9/6/23 15:28	BKP	EPA 8260D	
4-Chlorotoluene	ND	ug/L	0.500	9/6/23 15:28	BKP	EPA 8260D	
Acetone	2.78	ug/L	2.50	9/6/23 15:28	BKP	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	9/6/23 15:28	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location:	03Q23L4MW08AW		
Lab/Sample Number:	MDI0024-03	Collect Date:	08/31/23 14:15
Date Received:	09/01/23 13:44	Collected By:	
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Benzene	ND	ug/L	0.500	9/6/23 15:28	BKP	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	9/6/23 15:28	BKP	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	9/6/23 15:28	BKP	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	9/6/23 15:28	BKP	EPA 8260D	
Bromoform	ND	ug/L	0.500	9/6/23 15:28	BKP	EPA 8260D	
Bromomethane	ND	ug/L	0.500	9/6/23 15:28	BKP	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	9/6/23 15:28	BKP	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	9/6/23 15:28	BKP	EPA 8260D	
Chlorobenzene	ND	ug/L	0.500	9/6/23 15:28	BKP	EPA 8260D	
Chloroethane	ND	ug/L	0.500	9/6/23 15:28	BKP	EPA 8260D	
Chloroform	ND	ug/L	0.500	9/6/23 15:28	BKP	EPA 8260D	
Chloromethane	ND	ug/L	0.500	9/6/23 15:28	BKP	EPA 8260D	
cis-1,2-dichloroethene	ND	ug/L	0.500	9/6/23 15:28	BKP	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	9/6/23 15:28	BKP	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	9/6/23 15:28	BKP	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	9/6/23 15:28	BKP	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	9/6/23 15:28	BKP	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	9/6/23 15:28	BKP	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	9/6/23 15:28	BKP	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	9/6/23 15:28	BKP	EPA 8260D	
m+p-Xylene	ND	ug/L	0.500	9/6/23 15:28	BKP	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	9/6/23 15:28	BKP	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	9/6/23 15:28	BKP	EPA 8260D	
Methylene chloride	ND	ug/L	2.50	9/6/23 15:28	BKP	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	9/6/23 15:28	BKP	EPA 8260D	
Naphthalene	ND	ug/L	0.500	9/6/23 15:28	BKP	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	9/6/23 15:28	BKP	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	9/6/23 15:28	BKP	EPA 8260D	
o-Xylene	ND	ug/L	0.500	9/6/23 15:28	BKP	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	9/6/23 15:28	BKP	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	9/6/23 15:28	BKP	EPA 8260D	
Styrene	ND	ug/L	0.500	9/6/23 15:28	BKP	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	9/6/23 15:28	BKP	EPA 8260D	
Tetrachloroethene	ND	ug/L	0.500	9/6/23 15:28	BKP	EPA 8260D	
Toluene	ND	ug/L	0.500	9/6/23 15:28	BKP	EPA 8260D	
trans-1,2-Dichloroethene	ND	ug/L	0.500	9/6/23 15:28	BKP	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	9/6/23 15:28	BKP	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	9/6/23 15:28	BKP	EPA 8260D	
Trichlorofluoromethane	ND	ug/L	0.500	9/6/23 15:28	BKP	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	9/6/23 15:28	BKP	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*100%*		*70-130*	*9/6/23 15:28*	*BKP*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*96.3%*		*70-130*	*9/6/23 15:28*	*BKP*	*EPA 8260D*	
Surrogate: Toluene-d8	*97.9%*		*70-130*	*9/6/23 15:28*	*BKP*	*EPA 8260D*	

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Analytical Results Report

(Continued)

Sample Location:	03Q23L4MW08AW		
Lab/Sample Number:	MDI0024-03	Collect Date:	08/31/23 14:15
Date Received:	09/01/23 13:44	Collected By:	
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							

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Analytical Results Report

(Continued)

Sample Location: 03Q23L4MW150W
Lab/Sample Number: MDI0024-04 Collect Date: 08/31/23 08:00
Date Received: 09/01/23 13:44 Collected By:
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Perchlorate	108	ug/L	25.0	9/18/23 10:53	GPB	EPA 6850	
Semivolatiles							
1,3,5-TNB	ND	ug/L	0.500	9/15/23 19:48	MER	EPA 8330B	
1,3-Dinitrobenzene	ND	ug/L	0.500	9/15/23 19:48	MER	EPA 8330B	
2,4,6-Trinitrotoluene	ND	ug/L	0.100	9/15/23 19:48	MER	EPA 8330B	
2,4-Dinitrotoluene	ND	ug/L	0.100	9/15/23 19:48	MER	EPA 8330B	
2,6-DNT	ND	ug/L	0.500	9/15/23 19:48	MER	EPA 8330B	
2-Amino-4,6-dinitrotoluene	ND	ug/L	0.500	9/15/23 19:48	MER	EPA 8330B	
2-Nitrotoluene	ND	ug/L	0.500	9/15/23 19:48	MER	EPA 8330B	
3-Nitrotoluene	ND	ug/L	0.500	9/15/23 19:48	MER	EPA 8330B	
4-Amino-2,6-dinitrotoluene	ND	ug/L	0.500	9/15/23 19:48	MER	EPA 8330B	
4-Nitrotoluene	ND	ug/L	0.500	9/15/23 19:48	MER	EPA 8330B	
HMX	1.03	ug/L	0.100	9/15/23 19:48	MER	EPA 8330B	
NB	ND	ug/L	0.500	9/15/23 19:48	MER	EPA 8330B	
RDX	18.7	ug/L	0.100	9/15/23 19:48	MER	EPA 8330B	
Tetryl	ND	ug/L	0.500	9/15/23 19:48	MER	EPA 8330B	
Surrogate: 1,2-Dinitrobenzene	*81.7%*		*70-130*	*9/15/23 19:48*	*MER*	*EPA 8330B*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	9/6/23 16:00	BKP	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	9/6/23 16:00	BKP	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	9/6/23 16:00	BKP	EPA 8260D	
1,1,2-Trichloroethane	ND	ug/L	0.500	9/6/23 16:00	BKP	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	9/6/23 16:00	BKP	EPA 8260D	
1,1-Dichloroethene	ND	ug/L	0.500	9/6/23 16:00	BKP	EPA 8260D	
1,1-dichloropropene	ND	ug/L	0.500	9/6/23 16:00	BKP	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	9/6/23 16:00	BKP	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	9/6/23 16:00	BKP	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	9/6/23 16:00	BKP	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	9/6/23 16:00	BKP	EPA 8260D	
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.500	9/6/23 16:00	BKP	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	ug/L	0.500	9/6/23 16:00	BKP	EPA 8260D	
1,2-Dichlorobenzene	ND	ug/L	0.500	9/6/23 16:00	BKP	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	9/6/23 16:00	BKP	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	9/6/23 16:00	BKP	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	9/6/23 16:00	BKP	EPA 8260D	
1,3-Dichlorobenzene	ND	ug/L	0.500	9/6/23 16:00	BKP	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	9/6/23 16:00	BKP	EPA 8260D	
1,4-Dichlorobenzene	ND	ug/L	0.500	9/6/23 16:00	BKP	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	9/6/23 16:00	BKP	EPA 8260D	
2-Chlorotoluene	ND	ug/L	0.500	9/6/23 16:00	BKP	EPA 8260D	
2-hexanone	ND	ug/L	2.50	9/6/23 16:00	BKP	EPA 8260D	
4-Chlorotoluene	ND	ug/L	0.500	9/6/23 16:00	BKP	EPA 8260D	
Acetone	ND	ug/L	2.50	9/6/23 16:00	BKP	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	9/6/23 16:00	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location:	03Q23L4MW150W		
Lab/Sample Number:	MDI0024-04	Collect Date:	08/31/23 08:00
Date Received:	09/01/23 13:44	Collected By:	
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Benzene	ND	ug/L	0.500	9/6/23 16:00	BKP	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	9/6/23 16:00	BKP	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	9/6/23 16:00	BKP	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	9/6/23 16:00	BKP	EPA 8260D	
Bromoform	ND	ug/L	0.500	9/6/23 16:00	BKP	EPA 8260D	
Bromomethane	ND	ug/L	0.500	9/6/23 16:00	BKP	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	9/6/23 16:00	BKP	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	9/6/23 16:00	BKP	EPA 8260D	
Chlorobenzene	ND	ug/L	0.500	9/6/23 16:00	BKP	EPA 8260D	
Chloroethane	ND	ug/L	0.500	9/6/23 16:00	BKP	EPA 8260D	
Chloroform	ND	ug/L	0.500	9/6/23 16:00	BKP	EPA 8260D	
Chloromethane	ND	ug/L	0.500	9/6/23 16:00	BKP	EPA 8260D	
cis-1,2-dichloroethene	ND	ug/L	0.500	9/6/23 16:00	BKP	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	9/6/23 16:00	BKP	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	9/6/23 16:00	BKP	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	9/6/23 16:00	BKP	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	9/6/23 16:00	BKP	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	9/6/23 16:00	BKP	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	9/6/23 16:00	BKP	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	9/6/23 16:00	BKP	EPA 8260D	
m+p-Xylene	ND	ug/L	0.500	9/6/23 16:00	BKP	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	9/6/23 16:00	BKP	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	9/6/23 16:00	BKP	EPA 8260D	
Methylene chloride	ND	ug/L	2.50	9/6/23 16:00	BKP	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	9/6/23 16:00	BKP	EPA 8260D	
Naphthalene	ND	ug/L	0.500	9/6/23 16:00	BKP	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	9/6/23 16:00	BKP	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	9/6/23 16:00	BKP	EPA 8260D	
o-Xylene	ND	ug/L	0.500	9/6/23 16:00	BKP	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	9/6/23 16:00	BKP	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	9/6/23 16:00	BKP	EPA 8260D	
Styrene	ND	ug/L	0.500	9/6/23 16:00	BKP	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	9/6/23 16:00	BKP	EPA 8260D	
Tetrachloroethene	ND	ug/L	0.500	9/6/23 16:00	BKP	EPA 8260D	
Toluene	ND	ug/L	0.500	9/6/23 16:00	BKP	EPA 8260D	
trans-1,2-Dichloroethene	ND	ug/L	0.500	9/6/23 16:00	BKP	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	9/6/23 16:00	BKP	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	9/6/23 16:00	BKP	EPA 8260D	
Trichlorofluoromethane	ND	ug/L	0.500	9/6/23 16:00	BKP	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	9/6/23 16:00	BKP	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*100%*		*70-130*	*9/6/23 16:00*	*BKP*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*89.9%*		*70-130*	*9/6/23 16:00*	*BKP*	*EPA 8260D*	
Surrogate: Toluene-d8	*98.2%*		*70-130*	*9/6/23 16:00*	*BKP*	*EPA 8260D*	

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Analytical Results Report

(Continued)

Sample Location:	03Q23L4MW150W		
Lab/Sample Number:	MDI0024-04	Collect Date:	08/31/23 08:00
Date Received:	09/01/23 13:44	Collected By:	
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							

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Analytical Results Report

(Continued)

Sample Location: 083123TB
Lab/Sample Number: MDI0024-05 Collect Date: 08/31/23 00:00
Date Received: 09/01/23 13:44 Collected By:
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	9/6/23 13:18	BKP	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	9/6/23 13:18	BKP	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	9/6/23 13:18	BKP	EPA 8260D	
1,1,2-Trichloroethane	ND	ug/L	0.500	9/6/23 13:18	BKP	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	9/6/23 13:18	BKP	EPA 8260D	
1,1-Dichloroethene	ND	ug/L	0.500	9/6/23 13:18	BKP	EPA 8260D	
1,1-dichloropropene	ND	ug/L	0.500	9/6/23 13:18	BKP	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	9/6/23 13:18	BKP	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	9/6/23 13:18	BKP	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	9/6/23 13:18	BKP	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	9/6/23 13:18	BKP	EPA 8260D	
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.500	9/6/23 13:18	BKP	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	ug/L	0.200	9/6/23 13:18	BKP	EPA 8260D	
1,2-Dichlorobenzene	ND	ug/L	0.500	9/6/23 13:18	BKP	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	9/6/23 13:18	BKP	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	9/6/23 13:18	BKP	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	9/6/23 13:18	BKP	EPA 8260D	
1,3-Dichlorobenzene	ND	ug/L	0.500	9/6/23 13:18	BKP	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	9/6/23 13:18	BKP	EPA 8260D	
1,4-Dichlorobenzene	ND	ug/L	0.500	9/6/23 13:18	BKP	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	9/6/23 13:18	BKP	EPA 8260D	
2-Chloroethyl vinyl ether	ND	ug/L	2.50	9/6/23 13:18	BKP	EPA 8260D	
2-Chlorotoluene	ND	ug/L	0.500	9/6/23 13:18	BKP	EPA 8260D	
2-hexanone	ND	ug/L	2.50	9/6/23 13:18	BKP	EPA 8260D	
4-Chlorotoluene	ND	ug/L	0.500	9/6/23 13:18	BKP	EPA 8260D	
Acetone	ND	ug/L	2.50	9/6/23 13:18	BKP	EPA 8260D	
Acrolein	ND	ug/L	2.50	9/6/23 13:18	BKP	EPA 8260D	
Acrylonitrile	ND	ug/L	2.50	9/6/23 13:18	BKP	EPA 8260D	
Benzene	ND	ug/L	0.200	9/6/23 13:18	BKP	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	9/6/23 13:18	BKP	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	9/6/23 13:18	BKP	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.200	9/6/23 13:18	BKP	EPA 8260D	
Bromoform	ND	ug/L	0.500	9/6/23 13:18	BKP	EPA 8260D	
Bromomethane	ND	ug/L	0.500	9/6/23 13:18	BKP	EPA 8260D	
Carbon disulfide	ND	ug/L	2.50	9/6/23 13:18	BKP	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.200	9/6/23 13:18	BKP	EPA 8260D	
Chlorobenzene	ND	ug/L	0.500	9/6/23 13:18	BKP	EPA 8260D	
Chloroethane	ND	ug/L	0.500	9/6/23 13:18	BKP	EPA 8260D	
Chloroform	ND	ug/L	0.200	9/6/23 13:18	BKP	EPA 8260D	
Chloromethane	ND	ug/L	0.500	9/6/23 13:18	BKP	EPA 8260D	
cis-1,2-dichloroethene	ND	ug/L	0.500	9/6/23 13:18	BKP	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.200	9/6/23 13:18	BKP	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	9/6/23 13:18	BKP	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	9/6/23 13:18	BKP	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	9/6/23 13:18	BKP	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	9/6/23 13:18	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: 083123TB
Lab/Sample Number: MDI0024-05 Collect Date: 08/31/23 00:00
Date Received: 09/01/23 13:44 Collected By:
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Hexachlorobutadiene	ND	ug/L	0.500	9/6/23 13:18	BKP	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	9/6/23 13:18	BKP	EPA 8260D	
m+p-Xylene	ND	ug/L	1.00	9/6/23 13:18	BKP	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	9/6/23 13:18	BKP	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	9/6/23 13:18	BKP	EPA 8260D	
Methylene chloride	ND	ug/L	0.500	9/6/23 13:18	BKP	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	9/6/23 13:18	BKP	EPA 8260D	
Naphthalene	ND	ug/L	0.500	9/6/23 13:18	BKP	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	9/6/23 13:18	BKP	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	9/6/23 13:18	BKP	EPA 8260D	
o-Xylene	ND	ug/L	0.500	9/6/23 13:18	BKP	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	9/6/23 13:18	BKP	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	9/6/23 13:18	BKP	EPA 8260D	
Styrene	ND	ug/L	0.500	9/6/23 13:18	BKP	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	9/6/23 13:18	BKP	EPA 8260D	
Tetrachloroethene	ND	ug/L	0.500	9/6/23 13:18	BKP	EPA 8260D	
Toluene	ND	ug/L	0.500	9/6/23 13:18	BKP	EPA 8260D	
trans-1,2-Dichloroethene	ND	ug/L	0.500	9/6/23 13:18	BKP	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.200	9/6/23 13:18	BKP	EPA 8260D	
trans-1-4-Dichloro-2-butene	ND	ug/L	0.500	9/6/23 13:18	BKP	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	9/6/23 13:18	BKP	EPA 8260D	
Trichlorofluoromethane	ND	ug/L	0.500	9/6/23 13:18	BKP	EPA 8260D	
Vinyl acetate	ND	ug/L	0.500	9/6/23 13:18	BKP	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.200	9/6/23 13:18	BKP	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*100%*		*70-130*	*9/6/23 13:18*	*BKP*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*92.8%*		*70-130*	*9/6/23 13:18*	*BKP*	*EPA 8260D*	
Surrogate: Toluene-d8	*97.8%*		*70-130*	*9/6/23 13:18*	*BKP*	*EPA 8260D*	

Authorized Signature,

Justin Doty For Todd Taruscio, Laboratory Manager

L4	The associated blank spike recovery was below method acceptance limits. This analyte was not detected in the sample.
M1	Matrix spike recovery was high; the associated blank spike recovery was acceptable. Potential matrix effect
M12	Matrix spike recovery was low. Potential matrix effect.
M13	Matrix spike recovery was high due to a potential matrix effect.
PQL	Practical Quantitation Limit
ND	Not Detected
MCL	EPA's Maximum Contaminant Level
Dry	Sample results reported on a dry weight basis
*	Not a state-certified analyte

RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was spiked or duplicated.

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Certifications

Code	Description	Facility	Number
DOE WA	Washington Department of Ecology	Anatek-Moscow, ID	C595

Quality Control Data

Inorganics

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0071 - Perchlorate										
Blank (BDI0071-BLK1)					Prepared: 9/5/2023 Analyzed: 9/15/2023					
Perchlorate	ND		0.500	ug/L						
LCS (BDI0071-BS1)					Prepared: 9/5/2023 Analyzed: 9/15/2023					
Perchlorate	1.09		0.500	ug/L	1.00		109	80-120		
Matrix Spike (BDI0071-MS1)		**Source: MDI0021-01**			Prepared: 9/5/2023 Analyzed: 9/15/2023					
Perchlorate	1.01		0.500	ug/L	1.00	ND	101	80-120		
Matrix Spike (BDI0071-MS2)		**Source: MDI0024-01**			Prepared: 9/5/2023 Analyzed: 9/18/2023					
Perchlorate	454		25.0	ug/L	250	182	109	80-120		
Matrix Spike Dup (BDI0071-MSD1)		**Source: MDI0021-01**			Prepared: 9/5/2023 Analyzed: 9/15/2023					
Perchlorate	1.15		0.500	ug/L	1.00	ND	115	80-120	13.0	20
Matrix Spike Dup (BDI0071-MSD2)		**Source: MDI0024-01**			Prepared: 9/5/2023 Analyzed: 9/18/2023					
Perchlorate	496	M13	25.0	ug/L	250	182	126	80-120	8.84	20

Quality Control Data

Semivolatiles

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0064 - Explosives										
Blank (BDI0064-BLK1)					Prepared: 9/5/2023 Analyzed: 9/15/2023					
HMX	ND		0.100	ug/L						
RDX	ND		0.100	ug/L						
1,3,5-TNB	ND		0.500	ug/L						
1,3-Dinitrobenzene	ND		0.500	ug/L						
NB	ND		0.500	ug/L						
2,4,6-Trinitrotoluene	ND		0.100	ug/L						
Tetryl	ND		0.500	ug/L						
2,6-DNT	ND		0.500	ug/L						
2,4-Dinitrotoluene	ND		0.100	ug/L						
2-Nitrotoluene	ND		0.500	ug/L						
4-Nitrotoluene	ND		0.500	ug/L						
4-Amino-2,6-dinitrotoluene	ND		0.500	ug/L						
3-Nitrotoluene	ND		0.500	ug/L						
2-Amino-4,6-dinitrotoluene	ND		0.500	ug/L						
Surrogate: 1,2-Dinitrobenzene			*8.14*	*ug/L*	*10.0*		*81.4*	*70-130*		
Blank (BDI0064-BLK2)					Prepared: 9/5/2023 Analyzed: 9/15/2023					
HMX	ND		0.100	ug/L						
RDX	ND		0.100	ug/L						
1,3,5-TNB	ND		0.500	ug/L						
1,3-Dinitrobenzene	ND		0.500	ug/L						
NB	ND		0.500	ug/L						
2,4,6-Trinitrotoluene	ND		0.100	ug/L						
Tetryl	ND		0.500	ug/L						
2,6-DNT	ND		0.500	ug/L						
2,4-Dinitrotoluene	ND		0.100	ug/L						

Quality Control Data
(Continued)

Semivolatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0064 - Explosives (Continued)										
Blank (BDI0064-BLK2)					Prepared: 9/5/2023 Analyzed: 9/15/2023					
2-Nitrotoluene	ND		0.500	ug/L						
4-Nitrotoluene	ND		0.500	ug/L						
4-Amino-2,6-dinitrotoluene	ND		0.500	ug/L						
3-Nitrotoluene	ND		0.500	ug/L						
2-Amino-4,6-dinitrotoluene	ND		0.500	ug/L						
Surrogate: 1,2-Dinitrobenzene			*8.13*	*ug/L*	*10.0*		*81.3*	*70-130*		
Blank (BDI0064-BLK3)					Prepared: 9/5/2023 Analyzed: 9/16/2023					
HMX	ND		0.100	ug/L						
RDX	ND		0.100	ug/L						
1,3,5-TNB	ND		0.500	ug/L						
1,3-Dinitrobenzene	ND		0.500	ug/L						
NB	ND		0.500	ug/L						
2,4,6-Trinitrotoluene	ND		0.100	ug/L						
Tetryl	ND		0.500	ug/L						
2,6-DNT	ND		0.500	ug/L						
2,4-Dinitrotoluene	ND		0.100	ug/L						
2-Nitrotoluene	ND		0.500	ug/L						
4-Nitrotoluene	ND		0.500	ug/L						
4-Amino-2,6-dinitrotoluene	ND		0.500	ug/L						
3-Nitrotoluene	ND		0.500	ug/L						
2-Amino-4,6-dinitrotoluene	ND		0.500	ug/L						
Surrogate: 1,2-Dinitrobenzene			*8.06*	*ug/L*	*10.0*		*80.6*	*70-130*		
LCS (BDI0064-BS1)					Prepared: 9/5/2023 Analyzed: 9/15/2023					
HMX	4.57		0.100	ug/L	5.00		91.3	70-130		
RDX	4.67		0.100	ug/L	5.00		93.5	70-130		
1,3,5-TNB	4.22		0.500	ug/L	5.00		84.3	70-130		
1,3-Dinitrobenzene	4.24		0.500	ug/L	5.00		84.9	70-130		
NB	4.13		0.500	ug/L	5.00		82.6	70-130		
2,4,6-Trinitrotoluene	4.32		0.100	ug/L	5.00		86.3	70-130		
Tetryl	4.34		0.500	ug/L	5.00		86.7	70-130		
2,6-DNT	4.54		0.500	ug/L	5.00		90.8	70-130		
2,4-Dinitrotoluene	4.32		0.100	ug/L	5.00		86.3	70-130		
2-Nitrotoluene	4.77		0.500	ug/L	5.00		95.5	70-130		
4-Nitrotoluene	4.53		0.500	ug/L	5.00		90.5	70-130		
4-Amino-2,6-dinitrotoluene	4.93		0.500	ug/L	5.00		98.7	70-130		
3-Nitrotoluene	5.60		0.500	ug/L	5.00		112	70-130		
2-Amino-4,6-dinitrotoluene	4.76		0.500	ug/L	5.00		95.3	70-130		
Surrogate: 1,2-Dinitrobenzene		*L4*	*5.84*	*ug/L*	*10.0*		*58.4*	*70-130*		

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Quality Control Data
(Continued)

Semivolatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0064 - Explosives (Continued)										
LCS (BDI0064-BS2)					Prepared: 9/5/2023 Analyzed: 9/15/2023					
HMX	4.62		0.100	ug/L	5.00		92.4	70-130		
RDX	4.90		0.100	ug/L	5.00		98.0	70-130		
1,3,5-TNB	4.19		0.500	ug/L	5.00		83.9	70-130		
1,3-Dinitrobenzene	4.27		0.500	ug/L	5.00		85.4	70-130		
NB	4.17		0.500	ug/L	5.00		83.3	70-130		
2,4,6-Trinitrotoluene	4.32		0.100	ug/L	5.00		86.5	70-130		
Tetryl	4.46		0.500	ug/L	5.00		89.2	70-130		
2,6-DNT	4.49		0.500	ug/L	5.00		89.9	70-130		
2,4-Dinitrotoluene	4.30		0.100	ug/L	5.00		85.9	70-130		
2-Nitrotoluene	4.82		0.500	ug/L	5.00		96.3	70-130		
4-Nitrotoluene	3.76		0.500	ug/L	5.00		75.1	70-130		
4-Amino-2,6-dinitrotoluene	4.24		0.500	ug/L	5.00		84.9	70-130		
3-Nitrotoluene	4.25		0.500	ug/L	5.00		85.0	70-130		
2-Amino-4,6-dinitrotoluene	4.27		0.500	ug/L	5.00		85.5	70-130		
Surrogate: 1,2-Dinitrobenzene		*L4*	*6.78*	*ug/L*	*10.0*		*67.8*	*70-130*		
LCS (BDI0064-BS3)					Prepared: 9/5/2023 Analyzed: 9/16/2023					
HMX	5.58		0.100	ug/L	5.00		112	70-130		
RDX	5.70		0.100	ug/L	5.00		114	70-130		
1,3,5-TNB	5.54		0.500	ug/L	5.00		111	70-130		
1,3-Dinitrobenzene	4.96		0.500	ug/L	5.00		99.1	70-130		
NB	4.73		0.500	ug/L	5.00		94.5	70-130		
2,4,6-Trinitrotoluene	5.68		0.100	ug/L	5.00		114	70-130		
Tetryl	4.04		0.500	ug/L	5.00		80.8	70-130		
2,6-DNT	4.66		0.500	ug/L	5.00		93.2	70-130		
2,4-Dinitrotoluene	4.91		0.100	ug/L	5.00		98.2	70-130		
2-Nitrotoluene	4.68		0.500	ug/L	5.00		93.6	70-130		
4-Nitrotoluene	3.60		0.500	ug/L	5.00		72.1	70-130		
4-Amino-2,6-dinitrotoluene	4.65		0.500	ug/L	5.00		93.1	70-130		
3-Nitrotoluene	4.66		0.500	ug/L	5.00		93.3	70-130		
2-Amino-4,6-dinitrotoluene	4.57		0.500	ug/L	5.00		91.3	70-130		
Surrogate: 1,2-Dinitrobenzene		*L4*	*6.76*	*ug/L*	*10.0*		*67.6*	*70-130*		

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Quality Control Data
(Continued)

Semivolatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0064 - Explosives (Continued)										
LCS Dup (BDI0064-BSD1)					Prepared: 9/5/2023 Analyzed: 9/15/2023					
HMX	4.71		0.100	ug/L	5.00		94.3	70-130	3.19	25
RDX	4.74		0.100	ug/L	5.00		94.8	70-130	1.46	25
1,3,5-TNB	4.38		0.500	ug/L	5.00		87.7	70-130	3.87	25
1,3-Dinitrobenzene	4.35		0.500	ug/L	5.00		87.0	70-130	2.56	25
NB	4.26		0.500	ug/L	5.00		85.2	70-130	3.17	25
2,4,6-Trinitrotoluene	4.43		0.100	ug/L	5.00		88.6	70-130	2.59	25
Tetryl	4.46		0.500	ug/L	5.00		89.2	70-130	2.76	25
2,6-DNT	4.42		0.500	ug/L	5.00		88.4	70-130	2.67	25
2,4-Dinitrotoluene	4.42		0.100	ug/L	5.00		88.3	70-130	2.33	25
2-Nitrotoluene	4.81		0.500	ug/L	5.00		96.3	70-130	0.811	25
4-Nitrotoluene	3.81		0.500	ug/L	5.00		76.2	70-130	17.2	25
4-Amino-2,6-dinitrotoluene	4.43		0.500	ug/L	5.00		88.6	70-130	10.8	25
3-Nitrotoluene	4.49		0.500	ug/L	5.00		89.9	70-130	21.9	25
2-Amino-4,6-dinitrotoluene	4.52		0.500	ug/L	5.00		90.4	70-130	5.31	25
Surrogate: 1,2-Dinitrobenzene		*L4*	*6.76*	*ug/L*	*10.0*		*67.6*	*70-130*		
LCS Dup (BDI0064-BSD2)					Prepared: 9/5/2023 Analyzed: 9/15/2023					
HMX	4.77		0.100	ug/L	5.00		95.4	70-130	3.18	25
RDX	5.04		0.100	ug/L	5.00		101	70-130	2.78	25
1,3,5-TNB	4.37		0.500	ug/L	5.00		87.4	70-130	4.17	25
1,3-Dinitrobenzene	4.48		0.500	ug/L	5.00		89.6	70-130	4.73	25
NB	4.73		0.500	ug/L	5.00		94.7	70-130	12.8	25
2,4,6-Trinitrotoluene	4.45		0.100	ug/L	5.00		88.9	70-130	2.79	25
Tetryl	4.30		0.500	ug/L	5.00		86.0	70-130	3.63	25
2,6-DNT	4.42		0.500	ug/L	5.00		88.5	70-130	1.57	25
2,4-Dinitrotoluene	4.44		0.100	ug/L	5.00		88.9	70-130	3.35	25
2-Nitrotoluene	4.79		0.500	ug/L	5.00		95.8	70-130	0.554	25
4-Nitrotoluene	3.75		0.500	ug/L	5.00		75.0	70-130	0.208	25
4-Amino-2,6-dinitrotoluene	4.15		0.500	ug/L	5.00		83.1	70-130	2.14	25
3-Nitrotoluene	4.16		0.500	ug/L	5.00		83.2	70-130	2.14	25
2-Amino-4,6-dinitrotoluene	4.56		0.500	ug/L	5.00		91.1	70-130	6.40	25
Surrogate: 1,2-Dinitrobenzene		*L4*	*5.94*	*ug/L*	*10.0*		*59.4*	*70-130*		

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Quality Control Data
(Continued)

Semivolatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0064 - Explosives (Continued)										
LCS Dup (BDI0064-BSD3)					Prepared: 9/5/2023 Analyzed: 9/16/2023					
HMX	5.16		0.100	ug/L	5.00		103	70-130	7.83	25
RDX	5.56		0.100	ug/L	5.00		111	70-130	2.50	25
1,3,5-TNB	5.39		0.500	ug/L	5.00		108	70-130	2.90	25
1,3-Dinitrobenzene	4.69		0.500	ug/L	5.00		93.7	70-130	5.64	25
NB	4.37		0.500	ug/L	5.00		87.4	70-130	7.89	25
2,4,6-Trinitrotoluene	5.51		0.100	ug/L	5.00		110	70-130	3.02	25
Tetryl	4.11		0.500	ug/L	5.00		82.3	70-130	1.84	25
2,6-DNT	4.66		0.500	ug/L	5.00		93.1	70-130	0.0833	25
2,4-Dinitrotoluene	4.70		0.100	ug/L	5.00		93.9	70-130	4.43	25
2-Nitrotoluene	4.58		0.500	ug/L	5.00		91.6	70-130	2.14	25
4-Nitrotoluene	3.63		0.500	ug/L	5.00		72.7	70-130	0.803	25
4-Amino-2,6-dinitrotoluene	4.64		0.500	ug/L	5.00		92.8	70-130	0.291	25
3-Nitrotoluene	4.65		0.500	ug/L	5.00		93.0	70-130	0.291	25
2-Amino-4,6-dinitrotoluene	4.30		0.500	ug/L	5.00		86.1	70-130	5.91	25
Surrogate: 1,2-Dinitrobenzene		*L4*	*5.82*	*ug/L*	*10.0*		*58.2*	*70-130*		
Matrix Spike (BDI0064-MS1)		**Source: MDI0021-01**			Prepared: 9/5/2023 Analyzed: 9/15/2023					
HMX	4.42		0.100	ug/L	5.00	ND	88.5	70-130		
RDX	4.64		0.100	ug/L	5.00	ND	92.8	70-130		
1,3,5-TNB	4.07		0.500	ug/L	5.00	ND	81.5	70-130		
1,3-Dinitrobenzene	4.18		0.500	ug/L	5.00	ND	83.6	70-130		
NB	4.01		0.500	ug/L	5.00	ND	80.1	70-130		
2,4,6-Trinitrotoluene	4.19		0.100	ug/L	5.00	ND	83.7	70-130		
Tetryl	4.37		0.500	ug/L	5.00	ND	87.5	70-130		
2,6-DNT	4.45		0.500	ug/L	5.00	ND	89.1	70-130		
2,4-Dinitrotoluene	4.19		0.100	ug/L	5.00	ND	83.9	70-130		
2-Nitrotoluene	4.72		0.500	ug/L	5.00	ND	94.4	70-130		
4-Nitrotoluene	3.90		0.500	ug/L	5.00	ND	77.9	70-130		
4-Amino-2,6-dinitrotoluene	4.25		0.500	ug/L	5.00	ND	85.0	70-130		
3-Nitrotoluene	4.64		0.500	ug/L	5.00	ND	92.8	70-130		
2-Amino-4,6-dinitrotoluene	4.35		0.500	ug/L	5.00	ND	86.9	70-130		
Surrogate: 1,2-Dinitrobenzene			*7.62*	*ug/L*	*10.0*		*76.2*	*70-130*		

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Quality Control Data
(Continued)

Semivolatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0064 - Explosives (Continued)										
Matrix Spike (BDI0064-MS2)		**Source: MDI0024-01**			Prepared: 9/5/2023 Analyzed: 9/15/2023					
HMX	6.53		0.100	ug/L	5.00	1.65	97.6	70-130		
RDX	8.84		0.100	ug/L	5.00	3.83	100	70-130		
1,3,5-TNB	4.40		0.500	ug/L	5.00	ND	87.9	70-130		
1,3-Dinitrobenzene	4.50		0.500	ug/L	5.00	ND	89.9	70-130		
NB	4.56		0.500	ug/L	5.00	ND	91.1	70-130		
2,4,6-Trinitrotoluene	4.51		0.100	ug/L	5.00	ND	90.3	70-130		
Tetryl	4.58		0.500	ug/L	5.00	ND	91.6	70-130		
2,6-DNT	4.67		0.500	ug/L	5.00	ND	93.5	70-130		
2,4-Dinitrotoluene	4.53		0.100	ug/L	5.00	ND	90.5	70-130		
2-Nitrotoluene	5.06		0.500	ug/L	5.00	ND	101	70-130		
4-Nitrotoluene	3.96		0.500	ug/L	5.00	ND	79.2	70-130		
4-Amino-2,6-dinitrotoluene	4.28		0.500	ug/L	5.00	ND	85.6	70-130		
3-Nitrotoluene	4.29		0.500	ug/L	5.00	ND	85.8	70-130		
2-Amino-4,6-dinitrotoluene	4.57		0.500	ug/L	5.00	ND	91.3	70-130		
Surrogate: 1,2-Dinitrobenzene			*8.06*	*ug/L*	*10.0*		*80.6*	*70-130*		
Matrix Spike (BDI0064-MS3)		**Source: MDI0025-01**			Prepared: 9/5/2023 Analyzed: 9/15/2023					
HMX	4.55		0.100	ug/L	5.00	ND	91.0	70-130		
RDX	4.87		0.100	ug/L	5.00	ND	97.3	70-130		
1,3,5-TNB	4.23		0.500	ug/L	5.00	ND	84.6	70-130		
1,3-Dinitrobenzene	4.22		0.500	ug/L	5.00	ND	84.3	70-130		
NB	4.12		0.500	ug/L	5.00	ND	82.4	70-130		
2,4,6-Trinitrotoluene	4.27		0.100	ug/L	5.00	ND	85.5	70-130		
Tetryl	4.23		0.500	ug/L	5.00	ND	84.6	70-130		
2,6-DNT	4.35		0.500	ug/L	5.00	ND	87.0	70-130		
2,4-Dinitrotoluene	4.32		0.100	ug/L	5.00	ND	86.3	70-130		
2-Nitrotoluene	4.67		0.500	ug/L	5.00	ND	93.5	70-130		
4-Nitrotoluene	8.59	M1	0.500	ug/L	5.00	ND	172	70-130		
4-Amino-2,6-dinitrotoluene	5.08		0.500	ug/L	5.00	ND	102	70-130		
3-Nitrotoluene	5.09		0.500	ug/L	5.00	ND	102	70-130		
2-Amino-4,6-dinitrotoluene	4.73		0.500	ug/L	5.00	ND	94.6	70-130		
Surrogate: 1,2-Dinitrobenzene			*7.18*	*ug/L*	*10.0*		*71.8*	*70-130*		

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Quality Control Data
(Continued)

Semivolatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0064 - Explosives (Continued)										
Matrix Spike (BDI0064-MS4)		**Source: MDI0036-01**			Prepared: 9/5/2023 Analyzed: 9/16/2023					
HMX	5.38		0.100	ug/L	5.00	ND	108	70-130		
RDX	5.79		0.100	ug/L	5.00	ND	116	70-130		
1,3,5-TNB	5.61		0.500	ug/L	5.00	ND	112	70-130		
1,3-Dinitrobenzene	5.04		0.500	ug/L	5.00	ND	101	70-130		
NB	4.76		0.500	ug/L	5.00	ND	95.2	70-130		
2,4,6-Trinitrotoluene	5.67		0.100	ug/L	5.00	ND	113	70-130		
Tetryl	4.08		0.500	ug/L	5.00	ND	81.6	70-130		
2,6-DNT	4.81		0.500	ug/L	5.00	ND	96.2	70-130		
2,4-Dinitrotoluene	5.00		0.100	ug/L	5.00	ND	100	70-130		
2-Nitrotoluene	4.70		0.500	ug/L	5.00	ND	94.0	70-130		
4-Nitrotoluene	3.50		0.500	ug/L	5.00	ND	70.0	70-130		
4-Amino-2,6-dinitrotoluene	4.55		0.500	ug/L	5.00	ND	91.1	70-130		
3-Nitrotoluene	4.56		0.500	ug/L	5.00	ND	91.2	70-130		
2-Amino-4,6-dinitrotoluene	4.23		0.500	ug/L	5.00	ND	84.7	70-130		
Surrogate: 1,2-Dinitrobenzene			*7.70*	*ug/L*	*10.0*		*77.0*	*70-130*		
Matrix Spike Dup (BDI0064-MSD1)		**Source: MDI0021-01**			Prepared: 9/5/2023 Analyzed: 9/15/2023					
HMX	4.54		0.100	ug/L	5.00	ND	90.8	70-130	2.62	25
RDX	4.76		0.100	ug/L	5.00	ND	95.3	70-130	2.59	25
1,3,5-TNB	4.23		0.500	ug/L	5.00	ND	84.6	70-130	3.76	25
1,3-Dinitrobenzene	4.26		0.500	ug/L	5.00	ND	85.2	70-130	1.95	25
NB	4.20		0.500	ug/L	5.00	ND	84.0	70-130	4.78	25
2,4,6-Trinitrotoluene	4.30		0.100	ug/L	5.00	ND	86.1	70-130	2.76	25
Tetryl	4.39		0.500	ug/L	5.00	ND	87.7	70-130	0.321	25
2,6-DNT	4.41		0.500	ug/L	5.00	ND	88.3	70-130	0.881	25
2,4-Dinitrotoluene	4.26		0.100	ug/L	5.00	ND	85.3	70-130	1.64	25
2-Nitrotoluene	4.76		0.500	ug/L	5.00	ND	95.3	70-130	0.915	25
4-Nitrotoluene	4.42		0.500	ug/L	5.00	ND	88.5	70-130	12.7	25
4-Amino-2,6-dinitrotoluene	4.50		0.500	ug/L	5.00	ND	90.0	70-130	5.73	25
3-Nitrotoluene	5.44		0.500	ug/L	5.00	ND	109	70-130	15.9	25
2-Amino-4,6-dinitrotoluene	4.45		0.500	ug/L	5.00	ND	88.9	70-130	2.29	25
Surrogate: 1,2-Dinitrobenzene			*8.15*	*ug/L*	*10.0*		*81.5*	*70-130*		

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Quality Control Data
(Continued)

Semivolatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0064 - Explosives (Continued)										
Matrix Spike Dup (BDI0064-MSD2)		**Source: MDI0024-01**			Prepared: 9/5/2023 Analyzed: 9/15/2023					
HMX	6.55		0.100	ug/L	5.00	1.65	98.0	70-130	0.299	25
RDX	8.88		0.100	ug/L	5.00	3.83	101	70-130	0.456	25
1,3,5-TNB	4.30		0.500	ug/L	5.00	ND	85.9	70-130	2.31	25
1,3-Dinitrobenzene	4.41		0.500	ug/L	5.00	ND	88.2	70-130	1.98	25
NB	4.37		0.500	ug/L	5.00	ND	87.4	70-130	4.15	25
2,4,6-Trinitrotoluene	4.45		0.100	ug/L	5.00	ND	89.1	70-130	1.32	25
Tetryl	4.79		0.500	ug/L	5.00	ND	95.8	70-130	4.52	25
2,6-DNT	4.58		0.500	ug/L	5.00	ND	91.6	70-130	2.03	25
2,4-Dinitrotoluene	4.44		0.100	ug/L	5.00	ND	88.7	70-130	2.00	25
2-Nitrotoluene	4.82		0.500	ug/L	5.00	ND	96.4	70-130	4.90	25
4-Nitrotoluene	4.54		0.500	ug/L	5.00	ND	90.9	70-130	13.8	25
4-Amino-2,6-dinitrotoluene	4.59		0.500	ug/L	5.00	ND	91.7	70-130	6.87	25
3-Nitrotoluene	4.60		0.500	ug/L	5.00	ND	91.9	70-130	6.87	25
2-Amino-4,6-dinitrotoluene	4.39		0.500	ug/L	5.00	ND	87.9	70-130	3.83	25
Surrogate: 1,2-Dinitrobenzene			*7.69*	*ug/L*	*10.0*		*76.9*	*70-130*		
Matrix Spike Dup (BDI0064-MSD3)		**Source: MDI0025-01**			Prepared: 9/5/2023 Analyzed: 9/15/2023					
HMX	4.49		0.100	ug/L	5.00	ND	89.9	70-130	1.17	25
RDX	4.88		0.100	ug/L	5.00	ND	97.7	70-130	0.385	25
1,3,5-TNB	4.18		0.500	ug/L	5.00	ND	83.6	70-130	1.23	25
1,3-Dinitrobenzene	4.20		0.500	ug/L	5.00	ND	84.0	70-130	0.363	25
NB	4.03		0.500	ug/L	5.00	ND	80.6	70-130	2.15	25
2,4,6-Trinitrotoluene	4.26		0.100	ug/L	5.00	ND	85.1	70-130	0.453	25
Tetryl	4.37		0.500	ug/L	5.00	ND	87.4	70-130	3.31	25
2,6-DNT	4.56		0.500	ug/L	5.00	ND	91.3	70-130	4.74	25
2,4-Dinitrotoluene	4.30		0.100	ug/L	5.00	ND	86.1	70-130	0.290	25
2-Nitrotoluene	4.90		0.500	ug/L	5.00	ND	98.0	70-130	4.72	25
4-Nitrotoluene	7.99	M1	0.500	ug/L	5.00	ND	160	70-130	7.30	25
4-Amino-2,6-dinitrotoluene	4.59		0.500	ug/L	5.00	ND	91.9	70-130	10.1	25
3-Nitrotoluene	4.60		0.500	ug/L	5.00	ND	92.1	70-130	10.1	25
2-Amino-4,6-dinitrotoluene	4.27		0.500	ug/L	5.00	ND	85.4	70-130	10.1	25
Surrogate: 1,2-Dinitrobenzene			*7.02*	*ug/L*	*10.0*		*70.2*	*70-130*		

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Quality Control Data
(Continued)

Semivolatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0064 - Explosives (Continued)										
Matrix Spike Dup (BDI0064-MSD4)		**Source: MDI0036-01**			Prepared: 9/5/2023 Analyzed: 9/16/2023					
HMX	5.58		0.100	ug/L	5.00	ND	112	70-130	3.74	25
RDX	5.90		0.100	ug/L	5.00	ND	118	70-130	1.87	25
1,3,5-TNB	5.70		0.500	ug/L	5.00	ND	114	70-130	1.57	25
1,3-Dinitrobenzene	4.99		0.500	ug/L	5.00	ND	99.9	70-130	0.935	25
NB	4.53		0.500	ug/L	5.00	ND	90.5	70-130	4.97	25
2,4,6-Trinitrotoluene	5.80		0.100	ug/L	5.00	ND	116	70-130	2.21	25
Tetryl	4.05		0.500	ug/L	5.00	ND	81.0	70-130	0.763	25
2,6-DNT	4.65		0.500	ug/L	5.00	ND	93.0	70-130	3.40	25
2,4-Dinitrotoluene	4.98		0.100	ug/L	5.00	ND	99.6	70-130	0.456	25
2-Nitrotoluene	4.55		0.500	ug/L	5.00	ND	91.1	70-130	3.17	25
4-Nitrotoluene	3.36	M12	0.500	ug/L	5.00	ND	67.3	70-130	4.06	25
4-Amino-2,6-dinitrotoluene	4.68		0.500	ug/L	5.00	ND	93.5	70-130	2.69	25
3-Nitrotoluene	4.69		0.500	ug/L	5.00	ND	93.7	70-130	2.69	25
2-Amino-4,6-dinitrotoluene	4.24		0.500	ug/L	5.00	ND	84.8	70-130	0.131	25
Surrogate: 1,2-Dinitrobenzene			*7.97*	*ug/L*	*10.0*		*79.7*	*70-130*		

Quality Control Data
(Continued)

Volatiles

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0119 - VOC										
Blank (BDI0119-BLK1)					Prepared & Analyzed: 9/6/2023					
Hexachlorobutadiene	ND		0.500	ug/L						
cis-1,3-Dichloropropene	ND		0.500	ug/L						
Dichlorodifluoromethane	ND		0.500	ug/L						
Dibromomethane	ND		0.500	ug/L						
Dibromochloromethane	ND		0.500	ug/L						
Ethylbenzene	ND		0.500	ug/L						
cis-1,2-Dichloroethylene	ND		0.500	ug/L						
Chloromethane	ND		0.500	ug/L						
Chloroform	ND		0.500	ug/L						
Chloroethane	ND		0.500	ug/L						
Chlorobenzene (Monochlorobenzene)	ND		0.500	ug/L						
Carbon disulfide	ND		0.500	ug/L						
Isopropylbenzene	ND		0.500	ug/L						
Tetrachloroethylene	ND		0.500	ug/L						
Carbon Tetrachloride	ND		0.500	ug/L						
o-Xylene (MCL for total)	ND		0.500	ug/L						
trans-1,2 Dichloroethylene	ND		0.500	ug/L						
Toluene	ND		0.500	ug/L						
1,3-Dichloropropane	ND		0.500	ug/L						
tert-Butylbenzene	ND		0.500	ug/L						
Bromomethane	ND		0.500	ug/L						
Styrene	ND		0.500	ug/L						
p-isopropyltoluene	ND		0.500	ug/L						
m/p Xylenes (MCL for total)	ND		0.500	ug/L						
n-Propylbenzene	ND		0.500	ug/L						

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Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0119 - VOC (Continued)										
Blank (BDI0119-BLK1)					Prepared & Analyzed: 9/6/2023					
n-Butylbenzene	ND		0.500	ug/L						
Naphthalene	ND		0.500	ug/L						
methyl-t-butyl ether (MTBE)	ND		0.500	ug/L						
Methylene Chloride (Dichloromethane)	ND		2.50	ug/L						
Methyl isobutyl ketone (MIBK)	ND		2.50	ug/L						
Methyl ethyl ketone (MEK)	ND		2.50	ug/L						
sec-Butylbenzene	ND		0.500	ug/L						
1,1-Dichloroethylene	ND		0.500	ug/L						
EDB (screening)	ND		0.500	ug/L						
DBCP (screening)	ND		0.500	ug/L						
1,2,4-Trimethylbenzene	ND		0.500	ug/L						
1,2,4-Trichlorobenzene	ND		0.500	ug/L						
1,2,3-Trichloropropane	ND		0.500	ug/L						
2,2-Dichloropropane	ND		0.500	ug/L						
1,1-Dichloropropene	ND		0.500	ug/L						
1,2-Dichloroethane	ND		0.500	ug/L						
1,1-Dichloroethane	ND		0.500	ug/L						
1,1,2-Trichlorethane	ND		0.500	ug/L						
1,1,2,2-Tetrachloroethane	ND		0.500	ug/L						
1,1,1-Trichloroethane	ND		0.500	ug/L						
1,1,1,2-Tetrachloroethane	ND		0.500	ug/L						
Trichloroflouromethane	ND		0.500	ug/L						
1,2,3-Trichlorobenzene	ND		0.500	ug/L						
2-hexanone	ND		2.50	ug/L						
Bromodichloromethane	ND		0.500	ug/L						
Bromochloromethane	ND		0.500	ug/L						
Bromobenzene	ND		0.500	ug/L						
Benzene	ND		0.500	ug/L						
Acrylonitrile	ND		0.500	ug/L						
Acetone	ND		2.50	ug/L						
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	ND		0.500	ug/L						
o-Chlorotoluene	ND		0.500	ug/L						
1,4-Dichlorobenzene (para-Dichlorobenzene)	ND		0.500	ug/L						
m-Dichlorobenzene	ND		0.500	ug/L						
1,3,5-Trimethylbenzene	ND		0.500	ug/L						
1,2-Dichloropropane	ND		0.500	ug/L						
Bromoform	ND		0.500	ug/L						
p-Chlorotoluene	ND		0.500	ug/L						
Trichloroethene	ND		0.500	ug/L						
Vinyl Chloride	ND		0.500	ug/L						
trans-1,3-Dichloropropene	ND		0.500	ug/L						
Surrogate: Toluene-d8			*19.5*	*ug/L*	*20.0*		*97.6*	*70-130*		
Surrogate: 4-Bromofluorobenzene			*19.1*	*ug/L*	*20.0*		*95.3*	*70-130*		
Surrogate: 1,2-Dichlorobenzene-d4			*20.0*	*ug/L*	*20.0*		*100*	*70-130*		

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Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0119 - VOC (Continued)										
LCS (BDI0119-BS1)					Prepared & Analyzed: 9/6/2023					
cis-1,2-Dichloroethylene	9.95		0.500	ug/L	10.0		99.5	80-120		
Methyl isobutyl ketone (MIBK)	8.97		2.50	ug/L	10.0		89.7	70-136		
m/p Xylenes (MCL for total)	21.1		0.500	ug/L	20.0		105	80-120		
Isopropylbenzene	10.8		0.500	ug/L	10.0		108	80-120		
Hexachlorobutadiene	11.1		0.500	ug/L	10.0		111	80-120		
Ethylbenzene	10.7		0.500	ug/L	10.0		107	80-120		
Dichlorodifluoromethane	10.2		0.500	ug/L	10.0		102	57-130		
Dibromomethane	10.5		0.500	ug/L	10.0		105	80-120		
Naphthalene	8.58		0.500	ug/L	10.0		85.8	66-133		
cis-1,3-Dichloropropene	8.98		0.500	ug/L	10.0		89.8	79-123		
o-Xylene (MCL for total)	10.5		0.500	ug/L	10.0		105	80-120		
Chloroform	10.8		0.500	ug/L	10.0		108	80-120		
Chloroethane	12.0		0.500	ug/L	10.0		120	78-120		
Chlorobenzene (Monochlorobenzene)	10.4		0.500	ug/L	10.0		104	80-120		
Carbon Tetrachloride	10.7		0.500	ug/L	10.0		107	80-120		
Dibromochloromethane	9.73		0.500	ug/L	10.0		97.3	80-121		
Tetrachloroethylene	10.4		0.500	ug/L	10.0		104	80-120		
Vinyl Chloride	11.2		0.500	ug/L	10.0		112	75-120		
Trichloroflouromethane	11.2		0.500	ug/L	10.0		112	61-140		
Trichloroethene	10.1		0.500	ug/L	10.0		101	80-120		
trans-1,3-Dichloropropene	9.12		0.500	ug/L	10.0		91.2	69-130		
trans-1,2 Dichloroethylene	10.7		0.500	ug/L	10.0		107	80-120		
n-Butylbenzene	11.0		0.500	ug/L	10.0		110	74-122		
Toluene	10.6		0.500	ug/L	10.0		106	80-120		
Carbon disulfide	10.9		0.500	ug/L	10.0		109	80-120		
tert-Butylbenzene	11.1		0.500	ug/L	10.0		111	80-120		
Styrene	11.5		0.500	ug/L	10.0		115	80-120		
sec-Butylbenzene	11.6		0.500	ug/L	10.0		116	80-120		
p-isopropyltoluene	11.1		0.500	ug/L	10.0		111	80-120		
Methyl ethyl ketone (MEK)	10.1		2.50	ug/L	10.0		101	55-154		
n-Propylbenzene	11.5		0.500	ug/L	10.0		115	80-120		
1,1-Dichloropropene	11.3		0.500	ug/L	10.0		113	80-120		
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	10.1		0.500	ug/L	10.0		101	80-120		
EDB (screening)	10.2		0.500	ug/L	10.0		102	70-130		
DBCP (screening)	8.74		0.500	ug/L	10.0		87.4	71-128		
1,1,1-Trichloroethane	10.8		0.500	ug/L	10.0		108	80-120		
1,2,4-Trichlorobenzene	8.97		0.500	ug/L	10.0		89.7	80-120		
1,2-Dichloroethane	10.3		0.500	ug/L	10.0		103	80-120		
1,2,3-Trichlorobenzene	9.78		0.500	ug/L	10.0		97.8	78-120		
1,2,4-Trimethylbenzene	11.7		0.500	ug/L	10.0		117	80-120		
1,1-Dichloroethylene	10.4		0.500	ug/L	10.0		104	70-129		
1,1-Dichloroethane	10.5		0.500	ug/L	10.0		105	80-120		
1,1,2-Trichlorethane	10.5		0.500	ug/L	10.0		105	80-120		
1,1,2,2-Tetrachloroethane	10.6		0.500	ug/L	10.0		106	77-123		
Bromoform	9.45		0.500	ug/L	10.0		94.5	68-133		
methyl-t-butyl ether (MTBE)	8.82		0.500	ug/L	10.0		88.2	71-130		
1,1,1,2-Tetrachloroethane	10.3		0.500	ug/L	10.0		103	80-120		
Bromobenzene	10.3		0.500	ug/L	10.0		103	80-120		
Bromodichloromethane	9.92		0.500	ug/L	10.0		99.2	80-120		
1,2,3-Trichloropropane	10.4		0.500	ug/L	10.0		104	80-120		

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Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0119 - VOC (Continued)										
LCS (BDI0119-BS1)					Prepared & Analyzed: 9/6/2023					
Bromochloromethane	10.5		0.500	ug/L	10.0		105	80-120		
1,2-Dichloropropane	10.3		0.500	ug/L	10.0		103	80-120		
Benzene	10.6		0.500	ug/L	10.0		106	80-120		
Acrylonitrile	10.1		0.500	ug/L	10.0		101	73-131		
p-Chlorotoluene	11.7		0.500	ug/L	10.0		117	80-124		
o-Chlorotoluene	11.5		0.500	ug/L	10.0		115	80-120		
2,2-Dichloropropane	9.50		0.500	ug/L	10.0		95.0	80-120		
1,4-Dichlorobenzene (para-Dichlorobenzene)	10.1		0.500	ug/L	10.0		101	80-120		
1,3-Dichloropropane	10.3		0.500	ug/L	10.0		103	80-120		
m-Dichlorobenzene	10.1		0.500	ug/L	10.0		101	80-120		
1,3,5-Trimethylbenzene	11.7		0.500	ug/L	10.0		117	80-121		
2-hexanone	8.57		2.50	ug/L	10.0		85.7	65-140		
Surrogate: Toluene-d8			*20.7*	*ug/L*	*20.0*		*103*	*70-130*		
Surrogate: 4-Bromofluorobenzene			*20.6*	*ug/L*	*20.0*		*103*	*70-130*		
Surrogate: 1,2-Dichlorobenzene-d4			*20.0*	*ug/L*	*20.0*		*100*	*70-130*		
Matrix Spike (BDI0119-MS1)		**Source: MDI0024-01**			Prepared & Analyzed: 9/6/2023					
cis-1,3-Dichloropropene	10.1		0.500	ug/L	10.0	ND	101	74-124		
methyl-t-butyl ether (MTBE)	9.77		0.500	ug/L	10.0	ND	97.7	57-138		
Methyl isobutyl ketone (MIBK)	11.0		2.50	ug/L	10.0	ND	110	53-167		
Methyl ethyl ketone (MEK)	10.5		2.50	ug/L	10.0	ND	105	47-165		
m/p Xylenes (MCL for total)	22.5		0.500	ug/L	20.0	ND	112	57-130		
Isopropylbenzene	11.4		0.500	ug/L	10.0	ND	114	70-130		
Hexachlorobutadiene	12.7		0.500	ug/L	10.0	ND	127	70-130		
Ethylbenzene	11.4		0.500	ug/L	10.0	ND	114	70-130		
Dichlorodifluoromethane	10.3		0.500	ug/L	10.0	ND	103	57-136		
Chloroform	11.8		0.500	ug/L	10.0	ND	118	70-130		
Dibromochloromethane	10.1		0.500	ug/L	10.0	ND	101	70-130		
cis-1,2-Dichloroethylene	11.2		0.500	ug/L	10.0	ND	112	70-130		
Chloroethane	13.7		0.500	ug/L	10.0	ND	137	68-138		
Chlorobenzene (Monochlorobenzene)	11.3		0.500	ug/L	10.0	ND	113	70-130		
Dibromomethane	11.7		0.500	ug/L	10.0	ND	117	70-130		
Tetrachloroethylene	11.0		0.500	ug/L	10.0	ND	110	70-130		
Carbon Tetrachloride	11.3		0.500	ug/L	10.0	ND	113	70-130		
Vinyl Chloride	11.8		0.500	ug/L	10.0	ND	118	70-130		
Trichloroethene	11.1		0.500	ug/L	10.0	ND	111	70-130		
trans-1,3-Dichloropropene	9.62		0.500	ug/L	10.0	ND	96.2	61-131		
trans-1,2 Dichloroethylene	11.5		0.500	ug/L	10.0	ND	115	70-130		
Trichloroflouromethane	11.4		0.500	ug/L	10.0	ND	114	50-154		
Toluene	11.8		0.500	ug/L	10.0	ND	118	70-130		
Naphthalene	10.8		0.500	ug/L	10.0	ND	108	56-147		
tert-Butylbenzene	11.7		0.500	ug/L	10.0	ND	117	70-130		
Styrene	12.2		0.500	ug/L	10.0	ND	122	30-130		
sec-Butylbenzene	12.2		0.500	ug/L	10.0	ND	122	70-130		
p-isopropyltoluene	11.8		0.500	ug/L	10.0	ND	118	70-130		
o-Xylene (MCL for total)	11.2		0.500	ug/L	10.0	ND	112	62-127		
n-Propylbenzene	12.1		0.500	ug/L	10.0	ND	121	70-130		
n-Butylbenzene	12.2		0.500	ug/L	10.0	ND	122	67-130		
1,1-Dichloroethylene	11.0		0.500	ug/L	10.0	ND	110	70-130		
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	11.5		0.500	ug/L	10.0	ND	115	70-130		

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Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0119 - VOC (Continued)										
Matrix Spike (BDI0119-MS1)	**Source: MDI0024-01**				Prepared & Analyzed: 9/6/2023					
EDB (screening)	10.9		0.500	ug/L	10.0	ND	109	70-130		
DBCP (screening)	10.5		0.500	ug/L	10.0	ND	105	55-146		
1,2,4-Trimethylbenzene	12.5		0.500	ug/L	10.0	ND	125	40-140		
1,2,4-Trichlorobenzene	10.8		0.500	ug/L	10.0	ND	108	70-130		
1,2-Dichloroethane	11.0		0.500	ug/L	10.0	ND	110	70-130		
1,2,3-Trichlorobenzene	12.1		0.500	ug/L	10.0	ND	121	67-134		
1,2,3-Trichloropropane	11.7		0.500	ug/L	10.0	ND	117	69-137		
1,1-Dichloroethane	11.4		0.500	ug/L	10.0	ND	114	70-130		
1,1,2-Trichlorethane	11.1		0.500	ug/L	10.0	ND	111	70-130		
1,1,2,2-Tetrachloroethane	11.7		0.500	ug/L	10.0	ND	117	67-136		
1,1,1-Trichloroethane	11.5		0.500	ug/L	10.0	ND	115	70-130		
Carbon disulfide	11.5		0.500	ug/L	10.0	ND	115	70-130		
1,2-Dichloropropane	11.4		0.500	ug/L	10.0	ND	114	70-130		
1,1,1,2-Tetrachloroethane	10.8		0.500	ug/L	10.0	ND	108	70-130		
Bromodichloromethane	10.9		0.500	ug/L	10.0	ND	109	70-130		
1,1-Dichloropropene	12.1		0.500	ug/L	10.0	ND	121	70-130		
Bromoform	9.84		0.500	ug/L	10.0	ND	98.4	59-140		
1,3,5-Trimethylbenzene	12.5		0.500	ug/L	10.0	ND	125	40-140		
Bromochloromethane	11.7		0.500	ug/L	10.0	ND	117	70-130		
Bromobenzene	11.0		0.500	ug/L	10.0	ND	110	70-130		
Benzene	11.7		0.500	ug/L	10.0	ND	117	70-130		
Acrylonitrile	11.5		0.500	ug/L	10.0	ND	115	65-137		
p-Chlorotoluene	12.2		0.500	ug/L	10.0	ND	122	70-130		
2-hexanone	10.6		2.50	ug/L	10.0	ND	106	43-175		
o-Chlorotoluene	12.1		0.500	ug/L	10.0	ND	121	70-130		
2,2-Dichloropropane	10.5		0.500	ug/L	10.0	ND	105	70-130		
1,4-Dichlorobenzene (para-Dichlorobenzene)	11.4		0.500	ug/L	10.0	ND	114	70-130		
1,3-Dichloropropane	10.9		0.500	ug/L	10.0	ND	109	70-130		
m-Dichlorobenzene	11.4		0.500	ug/L	10.0	ND	114	70-130		
Surrogate: Toluene-d8			*20.7*	*ug/L*	*20.0*		*103*	*70-130*		
Surrogate: 4-Bromofluorobenzene			*19.2*	*ug/L*	*20.0*		*96.2*	*70-130*		
Surrogate: 1,2-Dichlorobenzene-d4			*20.0*	*ug/L*	*20.0*		*100*	*70-130*		

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Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0119 - VOC (Continued)										
Matrix Spike (BDI0119-MS2)	**Source: MDI0036-01**				Prepared & Analyzed: 9/6/2023					
Chloroethane	13.4		0.500	ug/L	10.0	ND	134	68-138		
Methyl ethyl ketone (MEK)	10.9		2.50	ug/L	10.0	ND	109	47-165		
m/p Xylenes (MCL for total)	25.1		0.500	ug/L	20.0	ND	126	57-130		
Isopropylbenzene	12.7		0.500	ug/L	10.0	ND	127	70-130		
Hexachlorobutadiene	12.2		0.500	ug/L	10.0	ND	122	70-130		
Ethylbenzene	12.2		0.500	ug/L	10.0	ND	122	70-130		
Dichlorodifluoromethane	10.4		0.500	ug/L	10.0	ND	104	57-136		
Dibromomethane	11.9		0.500	ug/L	10.0	ND	119	70-130		
Dibromochloromethane	11.3		0.500	ug/L	10.0	ND	113	70-130		
cis-1,3-Dichloropropene	10.7		0.500	ug/L	10.0	ND	107	74-124		
Vinyl Chloride	11.8		0.500	ug/L	10.0	ND	118	70-130		
Chloroform	11.8		0.500	ug/L	10.0	ND	118	70-130		
Methyl isobutyl ketone (MIBK)	11.0		2.50	ug/L	10.0	ND	110	53-167		
Chlorobenzene (Monochlorobenzene)	11.3		0.500	ug/L	10.0	ND	113	70-130		
Carbon Tetrachloride	11.3		0.500	ug/L	10.0	ND	113	70-130		
cis-1,2-Dichloroethylene	11.3		0.500	ug/L	10.0	ND	113	70-130		
Styrene	13.4	M1	0.500	ug/L	10.0	ND	134	30-130		
Bromodichloromethane	11.2		0.500	ug/L	10.0	ND	112	70-130		
Trichloroflouromethane	11.8		0.500	ug/L	10.0	ND	118	50-154		
trans-1,3-Dichloropropene	10.8		0.500	ug/L	10.0	ND	108	61-131		
trans-1,2 Dichloroethylene	11.6		0.500	ug/L	10.0	ND	116	70-130		
Toluene	11.8		0.500	ug/L	10.0	ND	118	70-130		
Trichloroethene	11.4		0.500	ug/L	10.0	ND	114	70-130		
tert-Butylbenzene	12.9		0.500	ug/L	10.0	ND	129	70-130		
methyl-t-butyl ether (MTBE)	10.4		0.500	ug/L	10.0	ND	104	57-138		
sec-Butylbenzene	13.2	M1	0.500	ug/L	10.0	ND	132	70-130		
p-isopropyltoluene	12.5		0.500	ug/L	10.0	ND	125	70-130		
o-Xylene (MCL for total)	12.6		0.500	ug/L	10.0	ND	126	62-127		
n-Propylbenzene	13.0		0.500	ug/L	10.0	ND	130	70-130		
n-Butylbenzene	12.3		0.500	ug/L	10.0	ND	123	67-130		
Naphthalene	11.0		0.500	ug/L	10.0	ND	110	56-147		
Tetrachloroethylene	11.6		0.500	ug/L	10.0	ND	116	70-130		
Bromoform	10.7		0.500	ug/L	10.0	ND	107	59-140		
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	11.8		0.500	ug/L	10.0	ND	118	70-130		
EDB (screening)	12.1		0.500	ug/L	10.0	ND	121	70-130		
DBCP (screening)	10.5		0.500	ug/L	10.0	ND	105	55-146		
1,2,4-Trimethylbenzene	13.4		0.500	ug/L	10.0	ND	134	40-140		
1,2,4-Trichlorobenzene	11.4		0.500	ug/L	10.0	ND	114	70-130		
1,1-Dichloropropene	12.4		0.500	ug/L	10.0	ND	124	70-130		
1,2,3-Trichlorobenzene	12.3		0.500	ug/L	10.0	ND	123	67-134		
1,1-Dichloroethane	11.4		0.500	ug/L	10.0	ND	114	70-130		
1,1,2-Trichlorethane	12.0		0.500	ug/L	10.0	ND	120	70-130		
1,1,2,2-Tetrachloroethane	12.6		0.500	ug/L	10.0	ND	126	67-136		
1,1,1-Trichloroethane	11.5		0.500	ug/L	10.0	ND	115	70-130		
1,1,1,2-Tetrachloroethane	11.9		0.500	ug/L	10.0	ND	119	70-130		
Carbon disulfide	11.5		0.500	ug/L	10.0	ND	115	70-130		
1,2,3-Trichloropropane	12.0		0.500	ug/L	10.0	ND	120	69-137		
1,1-Dichloroethylene	11.3		0.500	ug/L	10.0	ND	113	70-130		
Bromochloromethane	11.8		0.500	ug/L	10.0	ND	118	70-130		
1,2-Dichloroethane	11.2		0.500	ug/L	10.0	ND	112	70-130		

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Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0119 - VOC (Continued)										
Matrix Spike (BDI0119-MS2)	**Source: MDI0036-01**				Prepared & Analyzed: 9/6/2023					
Bromobenzene	12.1		0.500	ug/L	10.0	ND	121	70-130		
Benzene	11.8		0.500	ug/L	10.0	ND	118	70-130		
p-Chlorotoluene	13.2	M1	0.500	ug/L	10.0	ND	132	70-130		
2-hexanone	10.9		2.50	ug/L	10.0	ND	109	43-175		
o-Chlorotoluene	13.0		0.500	ug/L	10.0	ND	130	70-130		
2,2-Dichloropropane	10.5		0.500	ug/L	10.0	ND	105	70-130		
1,4-Dichlorobenzene (para-Dichlorobenzene)	11.6		0.500	ug/L	10.0	ND	116	70-130		
1,3-Dichloropropane	12.3		0.500	ug/L	10.0	ND	123	70-130		
m-Dichlorobenzene	11.6		0.500	ug/L	10.0	ND	116	70-130		
1,3,5-Trimethylbenzene	13.4		0.500	ug/L	10.0	ND	134	40-140		
1,2-Dichloropropane	11.6		0.500	ug/L	10.0	ND	116	70-130		
Acrylonitrile	11.0		0.500	ug/L	10.0	ND	110	65-137		
Surrogate: Toluene-d8			*20.4*	*ug/L*	*20.0*		*102*	*70-130*		
Surrogate: 4-Bromofluorobenzene			*20.4*	*ug/L*	*20.0*		*102*	*70-130*		
Surrogate: 1,2-Dichlorobenzene-d4			*20.0*	*ug/L*	*20.0*		*100*	*70-130*		
Matrix Spike Dup (BDI0119-MSD1)	**Source: MDI0024-01**				Prepared & Analyzed: 9/6/2023					
Methyl isobutyl ketone (MIBK)	11.6		2.50	ug/L	10.0	ND	116	53-167	5.57	20
Carbon Tetrachloride	11.6		0.500	ug/L	10.0	ND	116	70-130	2.62	20
Ethylbenzene	13.3	M1	0.500	ug/L	10.0	ND	133	70-130	15.6	20
Methyl ethyl ketone (MEK)	11.4		2.50	ug/L	10.0	ND	114	47-165	8.20	20
m/p Xylenes (MCL for total)	27.0	M1	0.500	ug/L	20.0	ND	135	57-130	18.4	20
Isopropylbenzene	13.7	M1	0.500	ug/L	10.0	ND	137	70-130	18.7	20
Hexachlorobutadiene	13.2	M1	0.500	ug/L	10.0	ND	132	70-130	3.95	20
Dichlorodifluoromethane	10.6		0.500	ug/L	10.0	ND	106	57-136	2.50	20
Dibromomethane	11.8		0.500	ug/L	10.0	ND	118	70-130	1.45	20
Dibromochloromethane	11.7		0.500	ug/L	10.0	ND	117	70-130	14.6	20
cis-1,3-Dichloropropene	10.8		0.500	ug/L	10.0	ND	108	74-124	7.27	20
cis-1,2-Dichloroethylene	11.7		0.500	ug/L	10.0	ND	117	70-130	4.63	20
Chloroform	12.0		0.500	ug/L	10.0	ND	120	70-130	1.76	20
Chlorobenzene (Monochlorobenzene)	13.0		0.500	ug/L	10.0	ND	130	70-130	13.9	20
Vinyl Chloride	12.4		0.500	ug/L	10.0	ND	124	70-130	4.30	20
Chloroethane	14.0	M1	0.500	ug/L	10.0	ND	140	68-138	2.17	20
Tetrachloroethylene	12.5		0.500	ug/L	10.0	ND	125	70-130	13.4	20
methyl-t-butyl ether (MTBE)	10.3		0.500	ug/L	10.0	ND	103	57-138	5.28	20
Trichloroflouromethane	11.9		0.500	ug/L	10.0	ND	119	50-154	4.55	20
Carbon disulfide	12.1		0.500	ug/L	10.0	ND	121	70-130	4.67	20
trans-1,3-Dichloropropene	11.4		0.500	ug/L	10.0	ND	114	61-131	17.3	20
trans-1,2 Dichloroethylene	12.2		0.500	ug/L	10.0	ND	122	70-130	5.73	20
Trichloroethene	11.8		0.500	ug/L	10.0	ND	118	70-130	6.63	20
Toluene	12.3		0.500	ug/L	10.0	ND	123	70-130	3.57	20
Naphthalene	11.7		0.500	ug/L	10.0	ND	117	56-147	7.89	20
tert-Butylbenzene	13.8	M1	0.500	ug/L	10.0	ND	138	70-130	16.4	20
Styrene	14.2	M1	0.500	ug/L	10.0	ND	142	30-130	14.9	20
sec-Butylbenzene	14.4	M1	0.500	ug/L	10.0	ND	144	70-130	16.0	20
p-isopropyltoluene	13.7	M1	0.500	ug/L	10.0	ND	137	70-130	14.9	20
o-Xylene (MCL for total)	13.5	M1	0.500	ug/L	10.0	ND	135	62-127	18.3	20
n-Propylbenzene	14.1	M1	0.500	ug/L	10.0	ND	141	70-130	15.1	20
1,1-Dichloropropene	12.7		0.500	ug/L	10.0	ND	127	70-130	4.83	20
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	11.8		0.500	ug/L	10.0	ND	118	70-130	2.32	20

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Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0119 - VOC (Continued)										
Matrix Spike Dup (BDI0119-MSD1)	**Source: MDI0024-01**				Prepared & Analyzed: 9/6/2023					
EDB (screening)	12.7		0.500	ug/L	10.0	ND	127	70-130	15.5	20
DBCP (screening)	11.4		0.500	ug/L	10.0	ND	114	55-146	8.41	20
1,2,4-Trimethylbenzene	14.5	M1	0.500	ug/L	10.0	ND	145	40-140	14.5	20
1,1,1,2-Tetrachloroethane	12.3		0.500	ug/L	10.0	ND	123	70-130	13.8	20
Bromoform	11.6		0.500	ug/L	10.0	ND	116	59-140	16.1	20
1,2,4-Trichlorobenzene	11.6		0.500	ug/L	10.0	ND	116	70-130	7.04	20
1,1-Dichloroethylene	11.6		0.500	ug/L	10.0	ND	116	70-130	5.66	20
1,1-Dichloroethane	11.8		0.500	ug/L	10.0	ND	118	70-130	3.71	20
1,1,2-Trichlorethane	12.6		0.500	ug/L	10.0	ND	126	70-130	12.8	20
1,1,2,2-Tetrachloroethane	13.2		0.500	ug/L	10.0	ND	132	67-136	12.3	20
1,1,1-Trichloroethane	11.9		0.500	ug/L	10.0	ND	119	70-130	3.50	20
n-Butylbenzene	12.8		0.500	ug/L	10.0	ND	128	67-130	4.96	20
1,2,3-Trichloropropane	13.0		0.500	ug/L	10.0	ND	130	69-137	10.9	20
p-Chlorotoluene	14.2	M1	0.500	ug/L	10.0	ND	142	70-130	14.8	20
Bromodichloromethane	11.4		0.500	ug/L	10.0	ND	114	70-130	4.13	20
1,2,3-Trichlorobenzene	12.8		0.500	ug/L	10.0	ND	128	67-134	5.46	20
1,2-Dichloroethane	11.4		0.500	ug/L	10.0	ND	114	70-130	2.86	20
Bromobenzene	12.7		0.500	ug/L	10.0	ND	127	70-130	15.1	20
Acrylonitrile	12.0		0.500	ug/L	10.0	ND	120	65-137	3.75	20
Bromochloromethane	11.9		0.500	ug/L	10.0	ND	119	70-130	2.12	20
2-hexanone	12.7		2.50	ug/L	10.0	ND	127	43-175	18.1	20
o-Chlorotoluene	14.1	M1	0.500	ug/L	10.0	ND	141	70-130	15.1	20
2,2-Dichloropropane	11.0		0.500	ug/L	10.0	ND	110	70-130	4.58	20
1,4-Dichlorobenzene (para-Dichlorobenzene)	11.7		0.500	ug/L	10.0	ND	117	70-130	3.21	20
1,3-Dichloropropane	12.5		0.500	ug/L	10.0	ND	125	70-130	14.1	20
m-Dichlorobenzene	11.7		0.500	ug/L	10.0	ND	117	70-130	3.21	20
1,3,5-Trimethylbenzene	14.5	M1	0.500	ug/L	10.0	ND	145	40-140	14.5	20
1,2-Dichloropropane	12.0		0.500	ug/L	10.0	ND	120	70-130	4.79	20
Benzene	12.1		0.500	ug/L	10.0	ND	121	70-130	3.11	20
Surrogate: Toluene-d8			*20.4*	*ug/L*	*20.0*		*102*	*70-130*		
Surrogate: 4-Bromofluorobenzene			*21.3*	*ug/L*	*20.0*		*106*	*70-130*		
Surrogate: 1,2-Dichlorobenzene-d4			*20.0*	*ug/L*	*20.0*		*100*	*70-130*		

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Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0119 - VOC (Continued)										
Matrix Spike Dup (BDI0119-MSD2)	**Source: MDI0036-01**				Prepared & Analyzed: 9/6/2023					
Ethylbenzene	12.2		0.500	ug/L	10.0	ND	122	70-130	0.245	20
Methyl isobutyl ketone (MIBK)	11.6		2.50	ug/L	10.0	ND	116	53-167	5.06	20
Methyl ethyl ketone (MEK)	11.6		2.50	ug/L	10.0	ND	116	47-165	6.21	20
m/p Xylenes (MCL for total)	25.4		0.500	ug/L	20.0	ND	127	57-130	0.951	20
Isopropylbenzene	13.0		0.500	ug/L	10.0	ND	130	70-130	2.34	20
Hexachlorobutadiene	12.6		0.500	ug/L	10.0	ND	126	70-130	3.38	20
Dichlorodifluoromethane	10.8		0.500	ug/L	10.0	ND	108	57-136	3.98	20
Dibromomethane	12.2		0.500	ug/L	10.0	ND	122	70-130	2.58	20
Dibromochloromethane	11.1		0.500	ug/L	10.0	ND	111	70-130	1.70	20
cis-1,3-Dichloropropene	11.2		0.500	ug/L	10.0	ND	112	74-124	4.55	20
cis-1,2-Dichloroethylene	12.0		0.500	ug/L	10.0	ND	120	70-130	6.08	20
Chloroform	12.1		0.500	ug/L	10.0	ND	121	70-130	2.52	20
Chlorobenzene (Monochlorobenzene)	12.1		0.500	ug/L	10.0	ND	121	70-130	6.60	20
Chloroethane	13.9	M1	0.500	ug/L	10.0	ND	139	68-138	3.66	20
tert-Butylbenzene	13.0		0.500	ug/L	10.0	ND	130	70-130	0.851	20
1,2-Dichloroethane	11.3		0.500	ug/L	10.0	ND	113	70-130	0.802	20
Trichloroflouromethane	12.2		0.500	ug/L	10.0	ND	122	50-154	2.92	20
Carbon Tetrachloride	11.8		0.500	ug/L	10.0	ND	118	70-130	4.43	20
trans-1,3-Dichloropropene	10.9		0.500	ug/L	10.0	ND	109	61-131	0.184	20
trans-1,2 Dichloroethylene	12.1		0.500	ug/L	10.0	ND	121	70-130	4.38	20
Trichloroethene	11.9		0.500	ug/L	10.0	ND	119	70-130	4.98	20
Tetrachloroethylene	11.5		0.500	ug/L	10.0	ND	115	70-130	0.950	20
methyl-t-butyl ether (MTBE)	10.7		0.500	ug/L	10.0	ND	107	57-138	2.66	20
Styrene	13.2	M1	0.500	ug/L	10.0	ND	132	30-130	0.977	20
sec-Butylbenzene	13.3	M1	0.500	ug/L	10.0	ND	133	70-130	1.21	20
p-isopropyltoluene	12.5		0.500	ug/L	10.0	ND	125	70-130	0.160	20
o-Xylene (MCL for total)	12.7		0.500	ug/L	10.0	ND	127	62-127	1.11	20
n-Propylbenzene	12.9		0.500	ug/L	10.0	ND	129	70-130	0.852	20
n-Butylbenzene	12.6		0.500	ug/L	10.0	ND	126	67-130	2.89	20
Naphthalene	11.8		0.500	ug/L	10.0	ND	118	56-147	7.10	20
Toluene	12.3		0.500	ug/L	10.0	ND	123	70-130	3.82	20
1,1-Dichloroethylene	11.9		0.500	ug/L	10.0	ND	119	70-130	5.11	20
EDB (screening)	12.0		0.500	ug/L	10.0	ND	120	70-130	0.745	20
DBCP (screening)	11.0		0.500	ug/L	10.0	ND	110	55-146	4.65	20
1,2,4-Trimethylbenzene	13.5		0.500	ug/L	10.0	ND	135	40-140	0.445	20
1,2,4-Trichlorobenzene	11.8		0.500	ug/L	10.0	ND	118	70-130	3.97	20
1,2,3-Trichloropropane	11.8		0.500	ug/L	10.0	ND	118	69-137	2.27	20
1,3,5-Trimethylbenzene	13.5		0.500	ug/L	10.0	ND	135	40-140	0.445	20
1,1-Dichloropropene	12.8		0.500	ug/L	10.0	ND	128	70-130	3.73	20
1,2-Dichloropropane	12.2		0.500	ug/L	10.0	ND	122	70-130	4.63	20
1,1-Dichloroethane	11.9		0.500	ug/L	10.0	ND	119	70-130	4.22	20
1,1,2-Trichlorethane	11.7		0.500	ug/L	10.0	ND	117	70-130	2.53	20
1,1,2,2-Tetrachloroethane	12.1		0.500	ug/L	10.0	ND	121	67-136	3.65	20
1,1,1-Trichloroethane	11.9		0.500	ug/L	10.0	ND	119	70-130	3.76	20
1,1,1,2-Tetrachloroethane	11.6		0.500	ug/L	10.0	ND	116	70-130	1.79	20
Vinyl Chloride	12.3		0.500	ug/L	10.0	ND	123	70-130	4.49	20
1,2,3-Trichlorobenzene	12.8		0.500	ug/L	10.0	ND	128	67-134	3.83	20
2-hexanone	11.1		2.50	ug/L	10.0	ND	111	43-175	2.18	20
Bromoform	10.9		0.500	ug/L	10.0	ND	109	59-140	1.20	20
Bromodichloromethane	11.4		0.500	ug/L	10.0	ND	114	70-130	1.86	20

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Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0119 - VOC (Continued)										
Matrix Spike Dup (BDI0119-MSD2)	**Source: MDI0036-01**				Prepared & Analyzed: 9/6/2023					
Bromochloromethane	12.0		0.500	ug/L	10.0	ND	120	70-130	1.43	20
Bromobenzene	12.0		0.500	ug/L	10.0	ND	120	70-130	1.16	20
Benzene	12.1		0.500	ug/L	10.0	ND	121	70-130	2.52	20
Acrylonitrile	11.1		0.500	ug/L	10.0	ND	111	65-137	0.362	20
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	11.8		0.500	ug/L	10.0	ND	118	70-130	0.508	20
o-Chlorotoluene	12.9		0.500	ug/L	10.0	ND	129	70-130	0.852	20
2,2-Dichloropropane	11.1		0.500	ug/L	10.0	ND	111	70-130	5.09	20
1,4-Dichlorobenzene (para-Dichlorobenzene)	11.9		0.500	ug/L	10.0	ND	119	70-130	2.38	20
1,3-Dichloropropane	11.9		0.500	ug/L	10.0	ND	119	70-130	3.06	20
m-Dichlorobenzene	11.9		0.500	ug/L	10.0	ND	119	70-130	2.38	20
Carbon disulfide	12.0		0.500	ug/L	10.0	ND	120	70-130	4.50	20
p-Chlorotoluene	13.0		0.500	ug/L	10.0	ND	130	70-130	1.91	20
Surrogate: Toluene-d8			*20.4*	*ug/L*	*20.0*		*102*	*70-130*		
Surrogate: 4-Bromofluorobenzene			*19.8*	*ug/L*	*20.0*		*98.8*	*70-130*		
Surrogate: 1,2-Dichlorobenzene-d4			*20.0*	*ug/L*	*20.0*		*100*	*70-130*		

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Chain of Custody Record

Anatek Labs, Inc.
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MDI0024

Due: 09/18/23

Company Name: PBS Engineering and Environmental	Project Manager: Scott Braunsten
Address: 4412 S Corbett Ave	Project Name & #: Camp Bonneville, 76151.012
City: Portland State: OR Zip: 97239	Purchase Order #:
Phone: 503-248-1939	Sampler Name & Phone: Riley Martin 702-374-7799
Email Address(es): scott.braunsten@pbsusa.com, samantha.eckes@pbsusa.com	

Turn Around Time & Reporting

Please

✓ Normal
__ Next Day*
__ 2nd Day*
__ Other*___

List Analyses Requested

Lab ID	Sample Identification	Sampling Date/Time	Matrix	Preservative:	# of Containers	Sample Volume	VOCs by 8260B	Explosives by 8330	Perchlorate by 6850
	03Q23L4MW03AW	8-31-23 1210	H2O		14		X	X	X
	03Q23L4MW08BW	1355			6		X	X	X
	03Q23L4MW08AW	1415			6		X	X	X
	03Q23L4MW15OW	800			6		X	X	X
	083123TB	-			1		X		

Note Special Instructions/Comments

Please send login confirmation

Please provide EQuIS EDD + WA EIM

MS/MSD

Inspection Checklist

Received Intact?	Y	N
Labels & Chains Agree?	Y	N
Containers Sealed?	Y	N
No VOC Head Space?	Y	N
Cooler?	Y	N
Ice/Ice Packs Present?	Y	N

Temperature (°C):_____
Number of Containers:_____
Shipped Via:_____
Preservative:_____
Date & Time:_____
Inspected By:_____

	Printed Name	Signature	Company	Date	Time
Relinquished by	RILEY MARTIN		PBS	8-31-23	1616
Received by	TB			9/1/23	13:44
Relinquished by					
Received by					
Relinquished by					
Received by					

Samples submitted to Anatek Labs may be subcontacted to other accredited labs if necessary. This message serves as notice of this possibility. Subcontracted analyses will be clearly noted on the analytical report.

Anatek Labs, Inc.

Sample Receipt and Preservation Form

Client Name: PBS

TAT: (Normal) RUSH: _____ days

Samples Received From: (FedEx) UPS USPS Client Courier Other: _____

Custody Seal on Cooler/Box: Yes (No) Custody Seals Intact: Yes No (N/A)

Number of Coolers/Boxes: 8 Type of Ice: (Wet Ice) Ice Packs Dry Ice None

Packing Material: (Bubble Wrap) (Bags) Foam/Peanuts Paper None Other: _____

Cooler Temp As Read (°C): 4.8 °C Cooler Temp Corrected (°C): — Thermometer Used: IR-5

				Comments:
Samples Received Intact?	(Yes)	No	N/A	
Chain of Custody Present/Complete?	(Yes)	No	N/A	
Labels and Chains Agree?	(Yes)	No	N/A	
Samples Received Within Hold Time?	(Yes)	No	N/A	
Correct Containers Received?	(Yes)	No	N/A	
Anatek Bottles Used?	(Yes)	No	Unknown	
Total Number of Sample Bottles Received: 33				

				Initial pH:	pH Paper ID:
Samples Properly Preserved?	(Yes)	No	N/A	<2 or	
If No, record preservation and pH-after details					
VOC Vials Free of Headspace (<6mm)?	(Yes)	No	N/A		
VOC Trip Blanks Present?	(Yes)	No	N/A		

Record preservatives (and lot numbers, if known) for containers below:

644 HCl 8260 x10 + TB

GIL Explosives ~~x8~~ x 12

P125 Perchlorate x 4

Notes, comments, etc. (also use this space if contacting the client - record names and date/time)

Received/Inspected By: TB Date/Time: ~~8~~ 9/1/23 13:44

Form F19.01 - Eff 1 Dec 2022

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Client:	PBS Engineering - Portland	Work Order:	MDI0025
Address:	4412 SW Corbett Ave	Project:	Camp Bonneville, 76151.012
	Portland, OR 97239	Reported:	10/23/2023 11:56
Attn:	Scott Braunsten		

Analytical Results Report

Sample Location:	03Q23LC03SW		
Lab/Sample Number:	MDI0025-01	Collect Date:	08/30/23 08:45
Date Received:	09/01/23 13:44	Collected By:	
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Semivolatiles							
RDX	ND	ug/L	0.100	9/15/23 20:26	MER	EPA 8330B	

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Analytical Results Report

(Continued)

Sample Location: 03Q23LCMW04SW
Lab/Sample Number: MDI0025-02 Collect Date: 08/30/23 09:40
Date Received: 09/01/23 13:44 Collected By:
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Perchlorate	ND	ug/L	0.500	9/15/23 18:57	GPB	EPA 6850	
Semivolatiles							
1,3,5-TNB	ND	ug/L	0.500	9/15/23 22:56	MER	EPA 8330B	
1,3-Dinitrobenzene	ND	ug/L	0.500	9/15/23 22:56	MER	EPA 8330B	
2,4,6-Trinitrotoluene	ND	ug/L	0.100	9/15/23 22:56	MER	EPA 8330B	
2,4-Dinitrotoluene	ND	ug/L	0.100	9/15/23 22:56	MER	EPA 8330B	
2,6-DNT	ND	ug/L	0.500	9/15/23 22:56	MER	EPA 8330B	
2-Amino-4,6-dinitrotoluene	ND	ug/L	0.500	9/15/23 22:56	MER	EPA 8330B	
2-Nitrotoluene	ND	ug/L	0.500	9/15/23 22:56	MER	EPA 8330B	
3-Nitrotoluene	ND	ug/L	0.500	9/15/23 22:56	MER	EPA 8330B	
4-Amino-2,6-dinitrotoluene	ND	ug/L	0.500	9/15/23 22:56	MER	EPA 8330B	
4-Nitrotoluene	ND	ug/L	0.500	9/15/23 22:56	MER	EPA 8330B	
HMX	ND	ug/L	0.100	9/15/23 22:56	MER	EPA 8330B	
NB	ND	ug/L	0.500	9/15/23 22:56	MER	EPA 8330B	
RDX	ND	ug/L	0.100	9/15/23 22:56	MER	EPA 8330B	
Tetryl	ND	ug/L	0.500	9/15/23 22:56	MER	EPA 8330B	
Surrogate: 1,2-Dinitrobenzene	*77.4%*		*70-130*	*9/15/23 22:56*	*MER*	*EPA 8330B*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	9/5/23 21:33	BKP	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	9/5/23 21:33	BKP	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	9/5/23 21:33	BKP	EPA 8260D	
1,1,2-Trichloroethane	ND	ug/L	0.500	9/5/23 21:33	BKP	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	9/5/23 21:33	BKP	EPA 8260D	
1,1-Dichloroethene	ND	ug/L	0.500	9/5/23 21:33	BKP	EPA 8260D	
1,1-dichloropropene	ND	ug/L	0.500	9/5/23 21:33	BKP	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	9/5/23 21:33	BKP	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	9/5/23 21:33	BKP	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	9/5/23 21:33	BKP	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	9/5/23 21:33	BKP	EPA 8260D	
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.500	9/5/23 21:33	BKP	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	ug/L	0.500	9/5/23 21:33	BKP	EPA 8260D	
1,2-Dichlorobenzene	ND	ug/L	0.500	9/5/23 21:33	BKP	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	9/5/23 21:33	BKP	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	9/5/23 21:33	BKP	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	9/5/23 21:33	BKP	EPA 8260D	
1,3-Dichlorobenzene	ND	ug/L	0.500	9/5/23 21:33	BKP	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	9/5/23 21:33	BKP	EPA 8260D	
1,4-Dichlorobenzene	ND	ug/L	0.500	9/5/23 21:33	BKP	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	9/5/23 21:33	BKP	EPA 8260D	
2-Chlorotoluene	ND	ug/L	0.500	9/5/23 21:33	BKP	EPA 8260D	
2-hexanone	ND	ug/L	2.50	9/5/23 21:33	BKP	EPA 8260D	
4-Chlorotoluene	ND	ug/L	0.500	9/5/23 21:33	BKP	EPA 8260D	
Acetone	ND	ug/L	2.50	9/5/23 21:33	BKP	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	9/5/23 21:33	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location:	03Q23LCMW04SW		
Lab/Sample Number:	MDI0025-02	Collect Date:	08/30/23 09:40
Date Received:	09/01/23 13:44	Collected By:	
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Benzene	ND	ug/L	0.500	9/5/23 21:33	BKP	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	9/5/23 21:33	BKP	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	9/5/23 21:33	BKP	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	9/5/23 21:33	BKP	EPA 8260D	
Bromoform	ND	ug/L	0.500	9/5/23 21:33	BKP	EPA 8260D	
Bromomethane	ND	ug/L	0.500	9/5/23 21:33	BKP	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	9/5/23 21:33	BKP	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	9/5/23 21:33	BKP	EPA 8260D	
Chlorobenzene	ND	ug/L	0.500	9/5/23 21:33	BKP	EPA 8260D	
Chloroethane	ND	ug/L	0.500	9/5/23 21:33	BKP	EPA 8260D	
Chloroform	ND	ug/L	0.500	9/5/23 21:33	BKP	EPA 8260D	
Chloromethane	ND	ug/L	0.500	9/5/23 21:33	BKP	EPA 8260D	
cis-1,2-dichloroethene	ND	ug/L	0.500	9/5/23 21:33	BKP	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	9/5/23 21:33	BKP	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	9/5/23 21:33	BKP	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	9/5/23 21:33	BKP	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	9/5/23 21:33	BKP	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	9/5/23 21:33	BKP	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	9/5/23 21:33	BKP	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	9/5/23 21:33	BKP	EPA 8260D	
m+p-Xylene	ND	ug/L	0.500	9/5/23 21:33	BKP	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	9/5/23 21:33	BKP	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	9/5/23 21:33	BKP	EPA 8260D	
Methylene chloride	ND	ug/L	2.50	9/5/23 21:33	BKP	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	9/5/23 21:33	BKP	EPA 8260D	
Naphthalene	ND	ug/L	0.500	9/5/23 21:33	BKP	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	9/5/23 21:33	BKP	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	9/5/23 21:33	BKP	EPA 8260D	
o-Xylene	ND	ug/L	0.500	9/5/23 21:33	BKP	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	9/5/23 21:33	BKP	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	9/5/23 21:33	BKP	EPA 8260D	
Styrene	ND	ug/L	0.500	9/5/23 21:33	BKP	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	9/5/23 21:33	BKP	EPA 8260D	
Tetrachloroethene	ND	ug/L	0.500	9/5/23 21:33	BKP	EPA 8260D	
Toluene	ND	ug/L	0.500	9/5/23 21:33	BKP	EPA 8260D	
trans-1,2-Dichloroethene	ND	ug/L	0.500	9/5/23 21:33	BKP	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	9/5/23 21:33	BKP	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	9/5/23 21:33	BKP	EPA 8260D	
Trichlorofluoromethane	ND	ug/L	0.500	9/5/23 21:33	BKP	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	9/5/23 21:33	BKP	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*100%*		*70-130*	*9/5/23 21:33*	*BKP*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*97.4%*		*70-130*	*9/5/23 21:33*	*BKP*	*EPA 8260D*	
Surrogate: Toluene-d8	*98.2%*		*70-130*	*9/5/23 21:33*	*BKP*	*EPA 8260D*	

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Analytical Results Report

(Continued)

Sample Location:	03Q23LCMW04SW		
Lab/Sample Number:	MDI0025-02	Collect Date:	08/30/23 09:40
Date Received:	09/01/23 13:44	Collected By:	
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							

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Analytical Results Report

(Continued)

Sample Location: 03Q23LCMW04DW
Lab/Sample Number: MDI0025-03 Collect Date: 08/30/23 10:25
Date Received: 09/01/23 13:44 Collected By:
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Perchlorate	ND	ug/L	0.500	9/15/23 19:11	GPB	EPA 6850	
Semivolatiles							
1,3,5-TNB	ND	ug/L	0.500	9/15/23 23:34	MER	EPA 8330B	
1,3-Dinitrobenzene	ND	ug/L	0.500	9/15/23 23:34	MER	EPA 8330B	
2,4,6-Trinitrotoluene	ND	ug/L	0.100	9/15/23 23:34	MER	EPA 8330B	
2,4-Dinitrotoluene	ND	ug/L	0.100	9/15/23 23:34	MER	EPA 8330B	
2,6-DNT	ND	ug/L	0.500	9/15/23 23:34	MER	EPA 8330B	
2-Amino-4,6-dinitrotoluene	ND	ug/L	0.500	9/15/23 23:34	MER	EPA 8330B	
2-Nitrotoluene	ND	ug/L	0.500	9/15/23 23:34	MER	EPA 8330B	
3-Nitrotoluene	ND	ug/L	0.500	9/15/23 23:34	MER	EPA 8330B	
4-Amino-2,6-dinitrotoluene	ND	ug/L	0.500	9/15/23 23:34	MER	EPA 8330B	
4-Nitrotoluene	ND	ug/L	0.500	9/15/23 23:34	MER	EPA 8330B	
HMX	ND	ug/L	0.100	9/15/23 23:34	MER	EPA 8330B	
NB	ND	ug/L	0.500	9/15/23 23:34	MER	EPA 8330B	
RDX	ND	ug/L	0.100	9/15/23 23:34	MER	EPA 8330B	
Tetryl	ND	ug/L	0.500	9/15/23 23:34	MER	EPA 8330B	
Surrogate: 1,2-Dinitrobenzene	*78.8%*		*70-130*	*9/15/23 23:34*	*MER*	*EPA 8330B*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	9/5/23 22:05	BKP	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	9/5/23 22:05	BKP	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	9/5/23 22:05	BKP	EPA 8260D	
1,1,2-Trichloroethane	ND	ug/L	0.500	9/5/23 22:05	BKP	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	9/5/23 22:05	BKP	EPA 8260D	
1,1-Dichloroethene	ND	ug/L	0.500	9/5/23 22:05	BKP	EPA 8260D	
1,1-dichloropropene	ND	ug/L	0.500	9/5/23 22:05	BKP	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	9/5/23 22:05	BKP	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	9/5/23 22:05	BKP	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	9/5/23 22:05	BKP	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	9/5/23 22:05	BKP	EPA 8260D	
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.500	9/5/23 22:05	BKP	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	ug/L	0.500	9/5/23 22:05	BKP	EPA 8260D	
1,2-Dichlorobenzene	ND	ug/L	0.500	9/5/23 22:05	BKP	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	9/5/23 22:05	BKP	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	9/5/23 22:05	BKP	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	9/5/23 22:05	BKP	EPA 8260D	
1,3-Dichlorobenzene	ND	ug/L	0.500	9/5/23 22:05	BKP	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	9/5/23 22:05	BKP	EPA 8260D	
1,4-Dichlorobenzene	ND	ug/L	0.500	9/5/23 22:05	BKP	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	9/5/23 22:05	BKP	EPA 8260D	
2-Chlorotoluene	ND	ug/L	0.500	9/5/23 22:05	BKP	EPA 8260D	
2-hexanone	ND	ug/L	2.50	9/5/23 22:05	BKP	EPA 8260D	
4-Chlorotoluene	ND	ug/L	0.500	9/5/23 22:05	BKP	EPA 8260D	
Acetone	ND	ug/L	2.50	9/5/23 22:05	BKP	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	9/5/23 22:05	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location:	03Q23LCMW04DW		
Lab/Sample Number:	MDI0025-03	Collect Date:	08/30/23 10:25
Date Received:	09/01/23 13:44	Collected By:	
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Benzene	ND	ug/L	0.500	9/5/23 22:05	BKP	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	9/5/23 22:05	BKP	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	9/5/23 22:05	BKP	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	9/5/23 22:05	BKP	EPA 8260D	
Bromoform	ND	ug/L	0.500	9/5/23 22:05	BKP	EPA 8260D	
Bromomethane	ND	ug/L	0.500	9/5/23 22:05	BKP	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	9/5/23 22:05	BKP	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	9/5/23 22:05	BKP	EPA 8260D	
Chlorobenzene	ND	ug/L	0.500	9/5/23 22:05	BKP	EPA 8260D	
Chloroethane	ND	ug/L	0.500	9/5/23 22:05	BKP	EPA 8260D	
Chloroform	ND	ug/L	0.500	9/5/23 22:05	BKP	EPA 8260D	
Chloromethane	ND	ug/L	0.500	9/5/23 22:05	BKP	EPA 8260D	
cis-1,2-dichloroethene	ND	ug/L	0.500	9/5/23 22:05	BKP	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	9/5/23 22:05	BKP	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	9/5/23 22:05	BKP	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	9/5/23 22:05	BKP	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	9/5/23 22:05	BKP	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	9/5/23 22:05	BKP	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	9/5/23 22:05	BKP	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	9/5/23 22:05	BKP	EPA 8260D	
m+p-Xylene	ND	ug/L	0.500	9/5/23 22:05	BKP	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	9/5/23 22:05	BKP	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	9/5/23 22:05	BKP	EPA 8260D	
Methylene chloride	ND	ug/L	2.50	9/5/23 22:05	BKP	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	9/5/23 22:05	BKP	EPA 8260D	
Naphthalene	ND	ug/L	0.500	9/5/23 22:05	BKP	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	9/5/23 22:05	BKP	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	9/5/23 22:05	BKP	EPA 8260D	
o-Xylene	ND	ug/L	0.500	9/5/23 22:05	BKP	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	9/5/23 22:05	BKP	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	9/5/23 22:05	BKP	EPA 8260D	
Styrene	ND	ug/L	0.500	9/5/23 22:05	BKP	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	9/5/23 22:05	BKP	EPA 8260D	
Tetrachloroethene	ND	ug/L	0.500	9/5/23 22:05	BKP	EPA 8260D	
Toluene	ND	ug/L	0.500	9/5/23 22:05	BKP	EPA 8260D	
trans-1,2-Dichloroethene	ND	ug/L	0.500	9/5/23 22:05	BKP	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	9/5/23 22:05	BKP	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	9/5/23 22:05	BKP	EPA 8260D	
Trichlorofluoromethane	ND	ug/L	0.500	9/5/23 22:05	BKP	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	9/5/23 22:05	BKP	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*100%*		*70-130*	*9/5/23 22:05*	*BKP*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*90.8%*		*70-130*	*9/5/23 22:05*	*BKP*	*EPA 8260D*	
Surrogate: Toluene-d8	*97.8%*		*70-130*	*9/5/23 22:05*	*BKP*	*EPA 8260D*	

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Analytical Results Report

(Continued)

Sample Location:	03Q23LCMW04DW		
Lab/Sample Number:	MDI0025-03	Collect Date:	08/30/23 10:25
Date Received:	09/01/23 13:44	Collected By:	
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							

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Analytical Results Report

(Continued)

Sample Location: 03Q23LCMW17W
Lab/Sample Number: MDI0025-04 Collect Date: 08/30/23 11:30
Date Received: 09/01/23 13:44 Collected By:
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Perchlorate	ND	ug/L	0.500	9/15/23 19:19	GPB	EPA 6850	
Semivolatiles							
1,3,5-TNB	ND	ug/L	0.500	9/16/23 0:12	MER	EPA 8330B	
1,3-Dinitrobenzene	ND	ug/L	0.500	9/16/23 0:12	MER	EPA 8330B	
2,4,6-Trinitrotoluene	ND	ug/L	0.100	9/16/23 0:12	MER	EPA 8330B	
2,4-Dinitrotoluene	ND	ug/L	0.100	9/16/23 0:12	MER	EPA 8330B	
2,6-DNT	ND	ug/L	0.500	9/16/23 0:12	MER	EPA 8330B	
2-Amino-4,6-dinitrotoluene	ND	ug/L	0.500	9/16/23 0:12	MER	EPA 8330B	
2-Nitrotoluene	ND	ug/L	0.500	9/16/23 0:12	MER	EPA 8330B	
3-Nitrotoluene	ND	ug/L	0.500	9/16/23 0:12	MER	EPA 8330B	
4-Amino-2,6-dinitrotoluene	ND	ug/L	0.500	9/16/23 0:12	MER	EPA 8330B	
4-Nitrotoluene	ND	ug/L	0.500	9/16/23 0:12	MER	EPA 8330B	
HMX	ND	ug/L	0.100	9/16/23 0:12	MER	EPA 8330B	
NB	ND	ug/L	0.500	9/16/23 0:12	MER	EPA 8330B	
RDX	ND	ug/L	0.100	9/16/23 0:12	MER	EPA 8330B	
Tetryl	ND	ug/L	0.500	9/16/23 0:12	MER	EPA 8330B	
Surrogate: 1,2-Dinitrobenzene	*78.7%*		*70-130*	*9/16/23 0:12*	*MER*	*EPA 8330B*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	9/5/23 22:38	BKP	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	9/5/23 22:38	BKP	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	9/5/23 22:38	BKP	EPA 8260D	
1,1,2-Trichloroethane	ND	ug/L	0.500	9/5/23 22:38	BKP	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	9/5/23 22:38	BKP	EPA 8260D	
1,1-Dichloroethene	ND	ug/L	0.500	9/5/23 22:38	BKP	EPA 8260D	
1,1-dichloropropene	ND	ug/L	0.500	9/5/23 22:38	BKP	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	9/5/23 22:38	BKP	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	9/5/23 22:38	BKP	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	9/5/23 22:38	BKP	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	9/5/23 22:38	BKP	EPA 8260D	
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.500	9/5/23 22:38	BKP	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	ug/L	0.500	9/5/23 22:38	BKP	EPA 8260D	
1,2-Dichlorobenzene	ND	ug/L	0.500	9/5/23 22:38	BKP	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	9/5/23 22:38	BKP	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	9/5/23 22:38	BKP	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	9/5/23 22:38	BKP	EPA 8260D	
1,3-Dichlorobenzene	ND	ug/L	0.500	9/5/23 22:38	BKP	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	9/5/23 22:38	BKP	EPA 8260D	
1,4-Dichlorobenzene	ND	ug/L	0.500	9/5/23 22:38	BKP	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	9/5/23 22:38	BKP	EPA 8260D	
2-Chlorotoluene	ND	ug/L	0.500	9/5/23 22:38	BKP	EPA 8260D	
2-hexanone	ND	ug/L	2.50	9/5/23 22:38	BKP	EPA 8260D	
4-Chlorotoluene	ND	ug/L	0.500	9/5/23 22:38	BKP	EPA 8260D	
Acetone	ND	ug/L	2.50	9/5/23 22:38	BKP	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	9/5/23 22:38	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location:	03Q23LCMW17W		
Lab/Sample Number:	MDI0025-04	Collect Date:	08/30/23 11:30
Date Received:	09/01/23 13:44	Collected By:	
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Benzene	ND	ug/L	0.500	9/5/23 22:38	BKP	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	9/5/23 22:38	BKP	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	9/5/23 22:38	BKP	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	9/5/23 22:38	BKP	EPA 8260D	
Bromoform	ND	ug/L	0.500	9/5/23 22:38	BKP	EPA 8260D	
Bromomethane	ND	ug/L	0.500	9/5/23 22:38	BKP	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	9/5/23 22:38	BKP	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	9/5/23 22:38	BKP	EPA 8260D	
Chlorobenzene	ND	ug/L	0.500	9/5/23 22:38	BKP	EPA 8260D	
Chloroethane	ND	ug/L	0.500	9/5/23 22:38	BKP	EPA 8260D	
Chloroform	ND	ug/L	0.500	9/5/23 22:38	BKP	EPA 8260D	
Chloromethane	ND	ug/L	0.500	9/5/23 22:38	BKP	EPA 8260D	
cis-1,2-dichloroethene	ND	ug/L	0.500	9/5/23 22:38	BKP	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	9/5/23 22:38	BKP	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	9/5/23 22:38	BKP	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	9/5/23 22:38	BKP	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	9/5/23 22:38	BKP	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	9/5/23 22:38	BKP	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	9/5/23 22:38	BKP	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	9/5/23 22:38	BKP	EPA 8260D	
m+p-Xylene	ND	ug/L	0.500	9/5/23 22:38	BKP	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	9/5/23 22:38	BKP	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	9/5/23 22:38	BKP	EPA 8260D	
Methylene chloride	ND	ug/L	2.50	9/5/23 22:38	BKP	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	9/5/23 22:38	BKP	EPA 8260D	
Naphthalene	ND	ug/L	0.500	9/5/23 22:38	BKP	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	9/5/23 22:38	BKP	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	9/5/23 22:38	BKP	EPA 8260D	
o-Xylene	ND	ug/L	0.500	9/5/23 22:38	BKP	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	9/5/23 22:38	BKP	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	9/5/23 22:38	BKP	EPA 8260D	
Styrene	ND	ug/L	0.500	9/5/23 22:38	BKP	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	9/5/23 22:38	BKP	EPA 8260D	
Tetrachloroethene	ND	ug/L	0.500	9/5/23 22:38	BKP	EPA 8260D	
Toluene	ND	ug/L	0.500	9/5/23 22:38	BKP	EPA 8260D	
trans-1,2-Dichloroethene	ND	ug/L	0.500	9/5/23 22:38	BKP	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	9/5/23 22:38	BKP	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	9/5/23 22:38	BKP	EPA 8260D	
Trichlorofluoromethane	ND	ug/L	0.500	9/5/23 22:38	BKP	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	9/5/23 22:38	BKP	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*100%*		*70-130*	*9/5/23 22:38*	*BKP*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*93.2%*		*70-130*	*9/5/23 22:38*	*BKP*	*EPA 8260D*	
Surrogate: Toluene-d8	*97.4%*		*70-130*	*9/5/23 22:38*	*BKP*	*EPA 8260D*	

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Analytical Results Report

(Continued)

Sample Location:	03Q23LCMW17W		
Lab/Sample Number:	MDI0025-04	Collect Date:	08/30/23 11:30
Date Received:	09/01/23 13:44	Collected By:	
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							

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Analytical Results Report

(Continued)

Sample Location: 03Q23LCMW18W
Lab/Sample Number: MDI0025-05 Collect Date: 08/30/23 12:25
Date Received: 09/01/23 13:44 Collected By:
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Perchlorate	ND	ug/L	0.500	9/15/23 19:26	GPB	EPA 6850	
Semivolatiles							
1,3,5-TNB	ND	ug/L	0.500	9/16/23 0:49	MER	EPA 8330B	
1,3-Dinitrobenzene	ND	ug/L	0.500	9/16/23 0:49	MER	EPA 8330B	
2,4,6-Trinitrotoluene	ND	ug/L	0.100	9/16/23 0:49	MER	EPA 8330B	
2,4-Dinitrotoluene	ND	ug/L	0.100	9/16/23 0:49	MER	EPA 8330B	
2,6-DNT	ND	ug/L	0.500	9/16/23 0:49	MER	EPA 8330B	
2-Amino-4,6-dinitrotoluene	ND	ug/L	0.500	9/16/23 0:49	MER	EPA 8330B	
2-Nitrotoluene	ND	ug/L	0.500	9/16/23 0:49	MER	EPA 8330B	
3-Nitrotoluene	ND	ug/L	0.500	9/16/23 0:49	MER	EPA 8330B	
4-Amino-2,6-dinitrotoluene	ND	ug/L	0.500	9/16/23 0:49	MER	EPA 8330B	
4-Nitrotoluene	ND	ug/L	0.500	9/16/23 0:49	MER	EPA 8330B	
HMX	ND	ug/L	0.100	9/16/23 0:49	MER	EPA 8330B	
NB	ND	ug/L	0.500	9/16/23 0:49	MER	EPA 8330B	
RDX	ND	ug/L	0.100	9/16/23 0:49	MER	EPA 8330B	
Tetryl	ND	ug/L	0.500	9/16/23 0:49	MER	EPA 8330B	
Surrogate: 1,2-Dinitrobenzene	*83.7%*		*70-130*	*9/16/23 0:49*	*MER*	*EPA 8330B*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	9/6/23 1:52	BKP	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	9/6/23 1:52	BKP	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	9/6/23 1:52	BKP	EPA 8260D	
1,1,2-Trichloroethane	ND	ug/L	0.500	9/6/23 1:52	BKP	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	9/6/23 1:52	BKP	EPA 8260D	
1,1-Dichloroethene	ND	ug/L	0.500	9/6/23 1:52	BKP	EPA 8260D	
1,1-dichloropropene	ND	ug/L	0.500	9/6/23 1:52	BKP	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	9/6/23 1:52	BKP	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	9/6/23 1:52	BKP	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	9/6/23 1:52	BKP	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	9/6/23 1:52	BKP	EPA 8260D	
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.500	9/6/23 1:52	BKP	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	ug/L	0.500	9/6/23 1:52	BKP	EPA 8260D	
1,2-Dichlorobenzene	ND	ug/L	0.500	9/6/23 1:52	BKP	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	9/6/23 1:52	BKP	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	9/6/23 1:52	BKP	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	9/6/23 1:52	BKP	EPA 8260D	
1,3-Dichlorobenzene	ND	ug/L	0.500	9/6/23 1:52	BKP	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	9/6/23 1:52	BKP	EPA 8260D	
1,4-Dichlorobenzene	ND	ug/L	0.500	9/6/23 1:52	BKP	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	9/6/23 1:52	BKP	EPA 8260D	
2-Chlorotoluene	ND	ug/L	0.500	9/6/23 1:52	BKP	EPA 8260D	
2-hexanone	ND	ug/L	2.50	9/6/23 1:52	BKP	EPA 8260D	
4-Chlorotoluene	ND	ug/L	0.500	9/6/23 1:52	BKP	EPA 8260D	
Acetone	ND	ug/L	2.50	9/6/23 1:52	BKP	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	9/6/23 1:52	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: 03Q23LCMW18W
Lab/Sample Number: MDI0025-05 Collect Date: 08/30/23 12:25
Date Received: 09/01/23 13:44 Collected By:
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Benzene	ND	ug/L	0.500	9/6/23 1:52	BKP	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	9/6/23 1:52	BKP	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	9/6/23 1:52	BKP	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	9/6/23 1:52	BKP	EPA 8260D	
Bromoform	ND	ug/L	0.500	9/6/23 1:52	BKP	EPA 8260D	
Bromomethane	ND	ug/L	0.500	9/6/23 1:52	BKP	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	9/6/23 1:52	BKP	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	9/6/23 1:52	BKP	EPA 8260D	
Chlorobenzene	ND	ug/L	0.500	9/6/23 1:52	BKP	EPA 8260D	
Chloroethane	ND	ug/L	0.500	9/6/23 1:52	BKP	EPA 8260D	
Chloroform	ND	ug/L	0.500	9/6/23 1:52	BKP	EPA 8260D	
Chloromethane	ND	ug/L	0.500	9/6/23 1:52	BKP	EPA 8260D	
cis-1,2-dichloroethene	ND	ug/L	0.500	9/6/23 1:52	BKP	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	9/6/23 1:52	BKP	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	9/6/23 1:52	BKP	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	9/6/23 1:52	BKP	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	9/6/23 1:52	BKP	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	9/6/23 1:52	BKP	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	9/6/23 1:52	BKP	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	9/6/23 1:52	BKP	EPA 8260D	
m+p-Xylene	ND	ug/L	0.500	9/6/23 1:52	BKP	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	9/6/23 1:52	BKP	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	9/6/23 1:52	BKP	EPA 8260D	
Methylene chloride	ND	ug/L	2.50	9/6/23 1:52	BKP	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	9/6/23 1:52	BKP	EPA 8260D	
Naphthalene	ND	ug/L	0.500	9/6/23 1:52	BKP	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	9/6/23 1:52	BKP	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	9/6/23 1:52	BKP	EPA 8260D	
o-Xylene	ND	ug/L	0.500	9/6/23 1:52	BKP	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	9/6/23 1:52	BKP	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	9/6/23 1:52	BKP	EPA 8260D	
Styrene	ND	ug/L	0.500	9/6/23 1:52	BKP	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	9/6/23 1:52	BKP	EPA 8260D	
Tetrachloroethene	ND	ug/L	0.500	9/6/23 1:52	BKP	EPA 8260D	
Toluene	ND	ug/L	0.500	9/6/23 1:52	BKP	EPA 8260D	
trans-1,2-Dichloroethene	ND	ug/L	0.500	9/6/23 1:52	BKP	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	9/6/23 1:52	BKP	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	9/6/23 1:52	BKP	EPA 8260D	
Trichlorofluoromethane	ND	ug/L	0.500	9/6/23 1:52	BKP	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	9/6/23 1:52	BKP	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*100%*		*70-130*	*9/6/23 1:52*	*BKP*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*98.0%*		*70-130*	*9/6/23 1:52*	*BKP*	*EPA 8260D*	
Surrogate: Toluene-d8	*97.8%*		*70-130*	*9/6/23 1:52*	*BKP*	*EPA 8260D*	

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Analytical Results Report

(Continued)

Sample Location:	03Q23LCMW18W		
Lab/Sample Number:	MDI0025-05	Collect Date:	08/30/23 12:25
Date Received:	09/01/23 13:44	Collected By:	
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							

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Analytical Results Report

(Continued)

Sample Location: 03Q23LCMW07BW
Lab/Sample Number: MDI0025-06 Collect Date: 08/30/23 13:15
Date Received: 09/01/23 13:44 Collected By:
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Perchlorate	1.49	ug/L	0.500	9/15/23 19:33	GPB	EPA 6850	
Semivolatiles							
1,3,5-TNB	ND	ug/L	0.500	9/16/23 1:27	MER	EPA 8330B	
1,3-Dinitrobenzene	ND	ug/L	0.500	9/16/23 1:27	MER	EPA 8330B	
2,4,6-Trinitrotoluene	ND	ug/L	0.100	9/16/23 1:27	MER	EPA 8330B	
2,4-Dinitrotoluene	ND	ug/L	0.100	9/16/23 1:27	MER	EPA 8330B	
2,6-DNT	ND	ug/L	0.500	9/16/23 1:27	MER	EPA 8330B	
2-Amino-4,6-dinitrotoluene	ND	ug/L	0.500	9/16/23 1:27	MER	EPA 8330B	
2-Nitrotoluene	ND	ug/L	0.500	9/16/23 1:27	MER	EPA 8330B	
3-Nitrotoluene	ND	ug/L	0.500	9/16/23 1:27	MER	EPA 8330B	
4-Amino-2,6-dinitrotoluene	ND	ug/L	0.500	9/16/23 1:27	MER	EPA 8330B	
4-Nitrotoluene	ND	ug/L	0.500	9/16/23 1:27	MER	EPA 8330B	
HMX	ND	ug/L	0.100	9/16/23 1:27	MER	EPA 8330B	
NB	ND	ug/L	0.500	9/16/23 1:27	MER	EPA 8330B	
RDX	ND	ug/L	0.100	9/16/23 1:27	MER	EPA 8330B	
Tetryl	ND	ug/L	0.500	9/16/23 1:27	MER	EPA 8330B	
Surrogate: 1,2-Dinitrobenzene	*78.2%*		*70-130*	*9/16/23 1:27*	*MER*	*EPA 8330B*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	9/6/23 2:24	BKP	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	9/6/23 2:24	BKP	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	9/6/23 2:24	BKP	EPA 8260D	
1,1,2-Trichloroethane	ND	ug/L	0.500	9/6/23 2:24	BKP	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	9/6/23 2:24	BKP	EPA 8260D	
1,1-Dichloroethene	ND	ug/L	0.500	9/6/23 2:24	BKP	EPA 8260D	
1,1-dichloropropene	ND	ug/L	0.500	9/6/23 2:24	BKP	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	9/6/23 2:24	BKP	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	9/6/23 2:24	BKP	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	9/6/23 2:24	BKP	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	9/6/23 2:24	BKP	EPA 8260D	
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.500	9/6/23 2:24	BKP	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	ug/L	0.500	9/6/23 2:24	BKP	EPA 8260D	
1,2-Dichlorobenzene	ND	ug/L	0.500	9/6/23 2:24	BKP	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	9/6/23 2:24	BKP	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	9/6/23 2:24	BKP	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	9/6/23 2:24	BKP	EPA 8260D	
1,3-Dichlorobenzene	ND	ug/L	0.500	9/6/23 2:24	BKP	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	9/6/23 2:24	BKP	EPA 8260D	
1,4-Dichlorobenzene	ND	ug/L	0.500	9/6/23 2:24	BKP	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	9/6/23 2:24	BKP	EPA 8260D	
2-Chlorotoluene	ND	ug/L	0.500	9/6/23 2:24	BKP	EPA 8260D	
2-hexanone	ND	ug/L	2.50	9/6/23 2:24	BKP	EPA 8260D	
4-Chlorotoluene	ND	ug/L	0.500	9/6/23 2:24	BKP	EPA 8260D	
Acetone	ND	ug/L	2.50	9/6/23 2:24	BKP	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	9/6/23 2:24	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: 03Q23LCMW07BW
Lab/Sample Number: MDI0025-06 Collect Date: 08/30/23 13:15
Date Received: 09/01/23 13:44 Collected By:
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Benzene	ND	ug/L	0.500	9/6/23 2:24	BKP	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	9/6/23 2:24	BKP	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	9/6/23 2:24	BKP	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	9/6/23 2:24	BKP	EPA 8260D	
Bromoform	ND	ug/L	0.500	9/6/23 2:24	BKP	EPA 8260D	
Bromomethane	ND	ug/L	0.500	9/6/23 2:24	BKP	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	9/6/23 2:24	BKP	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	9/6/23 2:24	BKP	EPA 8260D	
Chlorobenzene	ND	ug/L	0.500	9/6/23 2:24	BKP	EPA 8260D	
Chloroethane	ND	ug/L	0.500	9/6/23 2:24	BKP	EPA 8260D	
Chloroform	ND	ug/L	0.500	9/6/23 2:24	BKP	EPA 8260D	
Chloromethane	ND	ug/L	0.500	9/6/23 2:24	BKP	EPA 8260D	
cis-1,2-dichloroethene	ND	ug/L	0.500	9/6/23 2:24	BKP	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	9/6/23 2:24	BKP	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	9/6/23 2:24	BKP	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	9/6/23 2:24	BKP	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	9/6/23 2:24	BKP	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	9/6/23 2:24	BKP	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	9/6/23 2:24	BKP	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	9/6/23 2:24	BKP	EPA 8260D	
m+p-Xylene	ND	ug/L	0.500	9/6/23 2:24	BKP	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	9/6/23 2:24	BKP	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	9/6/23 2:24	BKP	EPA 8260D	
Methylene chloride	ND	ug/L	2.50	9/6/23 2:24	BKP	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	9/6/23 2:24	BKP	EPA 8260D	
Naphthalene	ND	ug/L	0.500	9/6/23 2:24	BKP	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	9/6/23 2:24	BKP	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	9/6/23 2:24	BKP	EPA 8260D	
o-Xylene	ND	ug/L	0.500	9/6/23 2:24	BKP	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	9/6/23 2:24	BKP	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	9/6/23 2:24	BKP	EPA 8260D	
Styrene	ND	ug/L	0.500	9/6/23 2:24	BKP	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	9/6/23 2:24	BKP	EPA 8260D	
Tetrachloroethene	ND	ug/L	0.500	9/6/23 2:24	BKP	EPA 8260D	
Toluene	ND	ug/L	0.500	9/6/23 2:24	BKP	EPA 8260D	
trans-1,2-Dichloroethene	ND	ug/L	0.500	9/6/23 2:24	BKP	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	9/6/23 2:24	BKP	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	9/6/23 2:24	BKP	EPA 8260D	
Trichlorofluoromethane	ND	ug/L	0.500	9/6/23 2:24	BKP	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	9/6/23 2:24	BKP	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*100%*		*70-130*	*9/6/23 2:24*	*BKP*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*93.0%*		*70-130*	*9/6/23 2:24*	*BKP*	*EPA 8260D*	
Surrogate: Toluene-d8	*97.4%*		*70-130*	*9/6/23 2:24*	*BKP*	*EPA 8260D*	

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Analytical Results Report

(Continued)

Sample Location:	03Q23LCMW07BW		
Lab/Sample Number:	MDI0025-06	Collect Date:	08/30/23 13:15
Date Received:	09/01/23 13:44	Collected By:	
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							

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Analytical Results Report

(Continued)

Sample Location: 03Q23LCMW145W
Lab/Sample Number: MDI0025-07 Collect Date: 08/30/23 08:00
Date Received: 09/01/23 13:44 Collected By:
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Perchlorate	1.49	ug/L	0.500	9/15/23 19:40	GPB	EPA 6850	
Semivolatiles							
1,3,5-TNB	ND	ug/L	0.500	9/16/23 2:05	MER	EPA 8330B	
1,3-Dinitrobenzene	ND	ug/L	0.500	9/16/23 2:05	MER	EPA 8330B	
2,4,6-Trinitrotoluene	ND	ug/L	0.100	9/16/23 2:05	MER	EPA 8330B	
2,4-Dinitrotoluene	ND	ug/L	0.100	9/16/23 2:05	MER	EPA 8330B	
2,6-DNT	ND	ug/L	0.500	9/16/23 2:05	MER	EPA 8330B	
2-Amino-4,6-dinitrotoluene	ND	ug/L	0.500	9/16/23 2:05	MER	EPA 8330B	
2-Nitrotoluene	ND	ug/L	0.500	9/16/23 2:05	MER	EPA 8330B	
3-Nitrotoluene	ND	ug/L	0.500	9/16/23 2:05	MER	EPA 8330B	
4-Amino-2,6-dinitrotoluene	ND	ug/L	0.500	9/16/23 2:05	MER	EPA 8330B	
4-Nitrotoluene	ND	ug/L	0.500	9/16/23 2:05	MER	EPA 8330B	
HMX	ND	ug/L	0.100	9/16/23 2:05	MER	EPA 8330B	
NB	ND	ug/L	0.500	9/16/23 2:05	MER	EPA 8330B	
RDX	ND	ug/L	0.100	9/16/23 2:05	MER	EPA 8330B	
Tetryl	ND	ug/L	0.500	9/16/23 2:05	MER	EPA 8330B	
Surrogate: 1,2-Dinitrobenzene	*79.1%*		*70-130*	*9/16/23 2:05*	*MER*	*EPA 8330B*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	9/6/23 2:56	BKP	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	9/6/23 2:56	BKP	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	9/6/23 2:56	BKP	EPA 8260D	
1,1,2-Trichloroethane	ND	ug/L	0.500	9/6/23 2:56	BKP	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	9/6/23 2:56	BKP	EPA 8260D	
1,1-Dichloroethene	ND	ug/L	0.500	9/6/23 2:56	BKP	EPA 8260D	
1,1-dichloropropene	ND	ug/L	0.500	9/6/23 2:56	BKP	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	9/6/23 2:56	BKP	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	9/6/23 2:56	BKP	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	9/6/23 2:56	BKP	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	9/6/23 2:56	BKP	EPA 8260D	
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.500	9/6/23 2:56	BKP	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	ug/L	0.500	9/6/23 2:56	BKP	EPA 8260D	
1,2-Dichlorobenzene	ND	ug/L	0.500	9/6/23 2:56	BKP	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	9/6/23 2:56	BKP	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	9/6/23 2:56	BKP	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	9/6/23 2:56	BKP	EPA 8260D	
1,3-Dichlorobenzene	ND	ug/L	0.500	9/6/23 2:56	BKP	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	9/6/23 2:56	BKP	EPA 8260D	
1,4-Dichlorobenzene	ND	ug/L	0.500	9/6/23 2:56	BKP	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	9/6/23 2:56	BKP	EPA 8260D	
2-Chlorotoluene	ND	ug/L	0.500	9/6/23 2:56	BKP	EPA 8260D	
2-hexanone	ND	ug/L	2.50	9/6/23 2:56	BKP	EPA 8260D	
4-Chlorotoluene	ND	ug/L	0.500	9/6/23 2:56	BKP	EPA 8260D	
Acetone	ND	ug/L	2.50	9/6/23 2:56	BKP	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	9/6/23 2:56	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location:	03Q23LCMW145W		
Lab/Sample Number:	MDI0025-07	Collect Date:	08/30/23 08:00
Date Received:	09/01/23 13:44	Collected By:	
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Benzene	ND	ug/L	0.500	9/6/23 2:56	BKP	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	9/6/23 2:56	BKP	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	9/6/23 2:56	BKP	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	9/6/23 2:56	BKP	EPA 8260D	
Bromoform	ND	ug/L	0.500	9/6/23 2:56	BKP	EPA 8260D	
Bromomethane	ND	ug/L	0.500	9/6/23 2:56	BKP	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	9/6/23 2:56	BKP	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	9/6/23 2:56	BKP	EPA 8260D	
Chlorobenzene	ND	ug/L	0.500	9/6/23 2:56	BKP	EPA 8260D	
Chloroethane	ND	ug/L	0.500	9/6/23 2:56	BKP	EPA 8260D	
Chloroform	ND	ug/L	0.500	9/6/23 2:56	BKP	EPA 8260D	
Chloromethane	ND	ug/L	0.500	9/6/23 2:56	BKP	EPA 8260D	
cis-1,2-dichloroethene	ND	ug/L	0.500	9/6/23 2:56	BKP	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	9/6/23 2:56	BKP	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	9/6/23 2:56	BKP	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	9/6/23 2:56	BKP	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	9/6/23 2:56	BKP	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	9/6/23 2:56	BKP	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	9/6/23 2:56	BKP	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	9/6/23 2:56	BKP	EPA 8260D	
m+p-Xylene	ND	ug/L	0.500	9/6/23 2:56	BKP	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	9/6/23 2:56	BKP	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	9/6/23 2:56	BKP	EPA 8260D	
Methylene chloride	ND	ug/L	2.50	9/6/23 2:56	BKP	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	9/6/23 2:56	BKP	EPA 8260D	
Naphthalene	ND	ug/L	0.500	9/6/23 2:56	BKP	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	9/6/23 2:56	BKP	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	9/6/23 2:56	BKP	EPA 8260D	
o-Xylene	ND	ug/L	0.500	9/6/23 2:56	BKP	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	9/6/23 2:56	BKP	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	9/6/23 2:56	BKP	EPA 8260D	
Styrene	ND	ug/L	0.500	9/6/23 2:56	BKP	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	9/6/23 2:56	BKP	EPA 8260D	
Tetrachloroethene	ND	ug/L	0.500	9/6/23 2:56	BKP	EPA 8260D	
Toluene	ND	ug/L	0.500	9/6/23 2:56	BKP	EPA 8260D	
trans-1,2-Dichloroethene	ND	ug/L	0.500	9/6/23 2:56	BKP	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	9/6/23 2:56	BKP	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	9/6/23 2:56	BKP	EPA 8260D	
Trichlorofluoromethane	ND	ug/L	0.500	9/6/23 2:56	BKP	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	9/6/23 2:56	BKP	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*100%*		*70-130*	*9/6/23 2:56*	*BKP*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*95.4%*		*70-130*	*9/6/23 2:56*	*BKP*	*EPA 8260D*	
Surrogate: Toluene-d8	*97.0%*		*70-130*	*9/6/23 2:56*	*BKP*	*EPA 8260D*	

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Analytical Results Report

(Continued)

Sample Location:	03Q23LCMW145W		
Lab/Sample Number:	MDI0025-07	Collect Date:	08/30/23 08:00
Date Received:	09/01/23 13:44	Collected By:	
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							

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Analytical Results Report

(Continued)

Sample Location:	03Q23NF02SW		
Lab/Sample Number:	MDI0025-08	Collect Date:	08/30/23 13:00
Date Received:	09/01/23 13:44	Collected By:	
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Semivolatiles							
RDX	ND	ug/L	0.100	9/16/23 2:42	MER	EPA 8330B	

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Analytical Results Report

(Continued)

Sample Location:	03Q23DP05SW		
Lab/Sample Number:	MDI0025-09	Collect Date:	08/30/23 08:30
Date Received:	09/01/23 13:44	Collected By:	
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Semivolatiles							
RDX	ND	ug/L	0.100	9/16/23 3:20	MER	EPA 8330B	

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Analytical Results Report

(Continued)

Sample Location: 03Q23LCMW01AW
Lab/Sample Number: MDI0025-10 Collect Date: 08/30/23 14:20
Date Received: 09/01/23 13:44 Collected By:
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Perchlorate	1.91	ug/L	0.500	9/15/23 19:48	GPB	EPA 6850	
Semivolatiles							
1,3,5-TNB	ND	ug/L	0.500	9/16/23 12:45	MER	EPA 8330B	
1,3-Dinitrobenzene	ND	ug/L	0.500	9/16/23 12:45	MER	EPA 8330B	
2,4,6-Trinitrotoluene	ND	ug/L	0.100	9/16/23 12:45	MER	EPA 8330B	
2,4-Dinitrotoluene	ND	ug/L	0.100	9/16/23 12:45	MER	EPA 8330B	
2,6-DNT	ND	ug/L	0.500	9/16/23 12:45	MER	EPA 8330B	
2-Amino-4,6-dinitrotoluene	ND	ug/L	0.500	9/16/23 12:45	MER	EPA 8330B	
2-Nitrotoluene	ND	ug/L	0.500	9/16/23 12:45	MER	EPA 8330B	
3-Nitrotoluene	ND	ug/L	0.500	9/16/23 12:45	MER	EPA 8330B	
4-Amino-2,6-dinitrotoluene	ND	ug/L	0.500	9/16/23 12:45	MER	EPA 8330B	
4-Nitrotoluene	ND	ug/L	0.500	9/16/23 12:45	MER	EPA 8330B	
HMX	ND	ug/L	0.100	9/16/23 12:45	MER	EPA 8330B	
NB	ND	ug/L	0.500	9/16/23 12:45	MER	EPA 8330B	
RDX	ND	ug/L	0.100	9/16/23 12:45	MER	EPA 8330B	
Tetryl	ND	ug/L	0.500	9/16/23 12:45	MER	EPA 8330B	
Surrogate: 1,2-Dinitrobenzene	*75.2%*		*70-130*	*9/16/23 12:45*	*MER*	*EPA 8330B*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	9/6/23 3:29	BKP	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	9/6/23 3:29	BKP	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	9/6/23 3:29	BKP	EPA 8260D	
1,1,2-Trichloroethane	ND	ug/L	0.500	9/6/23 3:29	BKP	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	9/6/23 3:29	BKP	EPA 8260D	
1,1-Dichloroethene	ND	ug/L	0.500	9/6/23 3:29	BKP	EPA 8260D	
1,1-dichloropropene	ND	ug/L	0.500	9/6/23 3:29	BKP	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	9/6/23 3:29	BKP	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	9/6/23 3:29	BKP	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	9/6/23 3:29	BKP	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	9/6/23 3:29	BKP	EPA 8260D	
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.500	9/6/23 3:29	BKP	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	ug/L	0.500	9/6/23 3:29	BKP	EPA 8260D	
1,2-Dichlorobenzene	ND	ug/L	0.500	9/6/23 3:29	BKP	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	9/6/23 3:29	BKP	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	9/6/23 3:29	BKP	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	9/6/23 3:29	BKP	EPA 8260D	
1,3-Dichlorobenzene	ND	ug/L	0.500	9/6/23 3:29	BKP	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	9/6/23 3:29	BKP	EPA 8260D	
1,4-Dichlorobenzene	ND	ug/L	0.500	9/6/23 3:29	BKP	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	9/6/23 3:29	BKP	EPA 8260D	
2-Chlorotoluene	ND	ug/L	0.500	9/6/23 3:29	BKP	EPA 8260D	
2-hexanone	ND	ug/L	2.50	9/6/23 3:29	BKP	EPA 8260D	
4-Chlorotoluene	ND	ug/L	0.500	9/6/23 3:29	BKP	EPA 8260D	
Acetone	ND	ug/L	2.50	9/6/23 3:29	BKP	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	9/6/23 3:29	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: 03Q23LCMW01AW
Lab/Sample Number: MDI0025-10 Collect Date: 08/30/23 14:20
Date Received: 09/01/23 13:44 Collected By:
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Benzene	ND	ug/L	0.500	9/6/23 3:29	BKP	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	9/6/23 3:29	BKP	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	9/6/23 3:29	BKP	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	9/6/23 3:29	BKP	EPA 8260D	
Bromoform	ND	ug/L	0.500	9/6/23 3:29	BKP	EPA 8260D	
Bromomethane	ND	ug/L	0.500	9/6/23 3:29	BKP	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	9/6/23 3:29	BKP	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	9/6/23 3:29	BKP	EPA 8260D	
Chlorobenzene	ND	ug/L	0.500	9/6/23 3:29	BKP	EPA 8260D	
Chloroethane	ND	ug/L	0.500	9/6/23 3:29	BKP	EPA 8260D	
Chloroform	ND	ug/L	0.500	9/6/23 3:29	BKP	EPA 8260D	
Chloromethane	ND	ug/L	0.500	9/6/23 3:29	BKP	EPA 8260D	
cis-1,2-dichloroethene	ND	ug/L	0.500	9/6/23 3:29	BKP	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	9/6/23 3:29	BKP	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	9/6/23 3:29	BKP	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	9/6/23 3:29	BKP	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	9/6/23 3:29	BKP	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	9/6/23 3:29	BKP	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	9/6/23 3:29	BKP	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	9/6/23 3:29	BKP	EPA 8260D	
m+p-Xylene	ND	ug/L	0.500	9/6/23 3:29	BKP	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	9/6/23 3:29	BKP	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	9/6/23 3:29	BKP	EPA 8260D	
Methylene chloride	ND	ug/L	2.50	9/6/23 3:29	BKP	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	9/6/23 3:29	BKP	EPA 8260D	
Naphthalene	ND	ug/L	0.500	9/6/23 3:29	BKP	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	9/6/23 3:29	BKP	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	9/6/23 3:29	BKP	EPA 8260D	
o-Xylene	ND	ug/L	0.500	9/6/23 3:29	BKP	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	9/6/23 3:29	BKP	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	9/6/23 3:29	BKP	EPA 8260D	
Styrene	ND	ug/L	0.500	9/6/23 3:29	BKP	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	9/6/23 3:29	BKP	EPA 8260D	
Tetrachloroethene	ND	ug/L	0.500	9/6/23 3:29	BKP	EPA 8260D	
Toluene	ND	ug/L	0.500	9/6/23 3:29	BKP	EPA 8260D	
trans-1,2-Dichloroethene	ND	ug/L	0.500	9/6/23 3:29	BKP	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	9/6/23 3:29	BKP	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	9/6/23 3:29	BKP	EPA 8260D	
Trichlorofluoromethane	ND	ug/L	0.500	9/6/23 3:29	BKP	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	9/6/23 3:29	BKP	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*100%*		*70-130*	*9/6/23 3:29*	*BKP*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*93.7%*		*70-130*	*9/6/23 3:29*	*BKP*	*EPA 8260D*	
Surrogate: Toluene-d8	*97.7%*		*70-130*	*9/6/23 3:29*	*BKP*	*EPA 8260D*	

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Analytical Results Report

(Continued)

Sample Location:	03Q23LCMW01AW		
Lab/Sample Number:	MDI0025-10	Collect Date:	08/30/23 14:20
Date Received:	09/01/23 13:44	Collected By:	
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							

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Analytical Results Report

(Continued)

Sample Location: 03Q23LCMW01BW
Lab/Sample Number: MDI0025-11 Collect Date: 08/30/23 15:15
Date Received: 09/01/23 13:44 Collected By:
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Perchlorate	ND	ug/L	0.500	9/15/23 19:55	GPB	EPA 6850	
Semivolatiles							
1,3,5-TNB	ND	ug/L	0.500	9/16/23 13:23	MER	EPA 8330B	
1,3-Dinitrobenzene	ND	ug/L	0.500	9/16/23 13:23	MER	EPA 8330B	
2,4,6-Trinitrotoluene	ND	ug/L	0.100	9/16/23 13:23	MER	EPA 8330B	
2,4-Dinitrotoluene	ND	ug/L	0.100	9/16/23 13:23	MER	EPA 8330B	
2,6-DNT	ND	ug/L	0.500	9/16/23 13:23	MER	EPA 8330B	
2-Amino-4,6-dinitrotoluene	ND	ug/L	0.500	9/16/23 13:23	MER	EPA 8330B	
2-Nitrotoluene	ND	ug/L	0.500	9/16/23 13:23	MER	EPA 8330B	
3-Nitrotoluene	ND	ug/L	0.500	9/16/23 13:23	MER	EPA 8330B	
4-Amino-2,6-dinitrotoluene	ND	ug/L	0.500	9/16/23 13:23	MER	EPA 8330B	
4-Nitrotoluene	ND	ug/L	0.500	9/16/23 13:23	MER	EPA 8330B	
HMX	ND	ug/L	0.100	9/16/23 13:23	MER	EPA 8330B	
NB	ND	ug/L	0.500	9/16/23 13:23	MER	EPA 8330B	
RDX	ND	ug/L	0.100	9/16/23 13:23	MER	EPA 8330B	
Tetryl	ND	ug/L	0.500	9/16/23 13:23	MER	EPA 8330B	
Surrogate: 1,2-Dinitrobenzene	*79.1%*		*70-130*	*9/16/23 13:23*	*MER*	*EPA 8330B*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	9/6/23 4:01	BKP	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	9/6/23 4:01	BKP	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	9/6/23 4:01	BKP	EPA 8260D	
1,1,2-Trichloroethane	ND	ug/L	0.500	9/6/23 4:01	BKP	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	9/6/23 4:01	BKP	EPA 8260D	
1,1-Dichloroethene	ND	ug/L	0.500	9/6/23 4:01	BKP	EPA 8260D	
1,1-dichloropropene	ND	ug/L	0.500	9/6/23 4:01	BKP	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	9/6/23 4:01	BKP	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	9/6/23 4:01	BKP	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	9/6/23 4:01	BKP	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	9/6/23 4:01	BKP	EPA 8260D	
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.500	9/6/23 4:01	BKP	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	ug/L	0.500	9/6/23 4:01	BKP	EPA 8260D	
1,2-Dichlorobenzene	ND	ug/L	0.500	9/6/23 4:01	BKP	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	9/6/23 4:01	BKP	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	9/6/23 4:01	BKP	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	9/6/23 4:01	BKP	EPA 8260D	
1,3-Dichlorobenzene	ND	ug/L	0.500	9/6/23 4:01	BKP	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	9/6/23 4:01	BKP	EPA 8260D	
1,4-Dichlorobenzene	ND	ug/L	0.500	9/6/23 4:01	BKP	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	9/6/23 4:01	BKP	EPA 8260D	
2-Chlorotoluene	ND	ug/L	0.500	9/6/23 4:01	BKP	EPA 8260D	
2-hexanone	ND	ug/L	2.50	9/6/23 4:01	BKP	EPA 8260D	
4-Chlorotoluene	ND	ug/L	0.500	9/6/23 4:01	BKP	EPA 8260D	
Acetone	3.07	ug/L	2.50	9/6/23 4:01	BKP	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	9/6/23 4:01	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: 03Q23LCMW01BW
Lab/Sample Number: MDI0025-11 Collect Date: 08/30/23 15:15
Date Received: 09/01/23 13:44 Collected By:
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Benzene	ND	ug/L	0.500	9/6/23 4:01	BKP	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	9/6/23 4:01	BKP	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	9/6/23 4:01	BKP	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	9/6/23 4:01	BKP	EPA 8260D	
Bromoform	ND	ug/L	0.500	9/6/23 4:01	BKP	EPA 8260D	
Bromomethane	ND	ug/L	0.500	9/6/23 4:01	BKP	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	9/6/23 4:01	BKP	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	9/6/23 4:01	BKP	EPA 8260D	
Chlorobenzene	ND	ug/L	0.500	9/6/23 4:01	BKP	EPA 8260D	
Chloroethane	ND	ug/L	0.500	9/6/23 4:01	BKP	EPA 8260D	
Chloroform	ND	ug/L	0.500	9/6/23 4:01	BKP	EPA 8260D	
Chloromethane	ND	ug/L	0.500	9/6/23 4:01	BKP	EPA 8260D	
cis-1,2-dichloroethene	ND	ug/L	0.500	9/6/23 4:01	BKP	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	9/6/23 4:01	BKP	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	9/6/23 4:01	BKP	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	9/6/23 4:01	BKP	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	9/6/23 4:01	BKP	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	9/6/23 4:01	BKP	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	9/6/23 4:01	BKP	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	9/6/23 4:01	BKP	EPA 8260D	
m+p-Xylene	ND	ug/L	0.500	9/6/23 4:01	BKP	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	9/6/23 4:01	BKP	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	9/6/23 4:01	BKP	EPA 8260D	
Methylene chloride	ND	ug/L	2.50	9/6/23 4:01	BKP	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	9/6/23 4:01	BKP	EPA 8260D	
Naphthalene	ND	ug/L	0.500	9/6/23 4:01	BKP	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	9/6/23 4:01	BKP	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	9/6/23 4:01	BKP	EPA 8260D	
o-Xylene	ND	ug/L	0.500	9/6/23 4:01	BKP	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	9/6/23 4:01	BKP	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	9/6/23 4:01	BKP	EPA 8260D	
Styrene	ND	ug/L	0.500	9/6/23 4:01	BKP	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	9/6/23 4:01	BKP	EPA 8260D	
Tetrachloroethene	ND	ug/L	0.500	9/6/23 4:01	BKP	EPA 8260D	
Toluene	ND	ug/L	0.500	9/6/23 4:01	BKP	EPA 8260D	
trans-1,2-Dichloroethene	ND	ug/L	0.500	9/6/23 4:01	BKP	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	9/6/23 4:01	BKP	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	9/6/23 4:01	BKP	EPA 8260D	
Trichlorofluoromethane	ND	ug/L	0.500	9/6/23 4:01	BKP	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	9/6/23 4:01	BKP	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*100%*		*70-130*	*9/6/23 4:01*	*BKP*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*92.6%*		*70-130*	*9/6/23 4:01*	*BKP*	*EPA 8260D*	
Surrogate: Toluene-d8	*97.5%*		*70-130*	*9/6/23 4:01*	*BKP*	*EPA 8260D*	

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Analytical Results Report

(Continued)

Sample Location:	03Q23LCMW01BW		
Lab/Sample Number:	MDI0025-11	Collect Date:	08/30/23 15:15
Date Received:	09/01/23 13:44	Collected By:	
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							

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Analytical Results Report

(Continued)

Sample Location: 083023TB
Lab/Sample Number: MDI0025-12 Collect Date: 08/30/23 15:15
Date Received: 09/01/23 13:44 Collected By:
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	9/6/23 13:51	BKP	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	9/6/23 13:51	BKP	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	9/6/23 13:51	BKP	EPA 8260D	
1,1,2-Trichloroethane	ND	ug/L	0.500	9/6/23 13:51	BKP	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	9/6/23 13:51	BKP	EPA 8260D	
1,1-Dichloroethene	ND	ug/L	0.500	9/6/23 13:51	BKP	EPA 8260D	
1,1-dichloropropene	ND	ug/L	0.500	9/6/23 13:51	BKP	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	9/6/23 13:51	BKP	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	9/6/23 13:51	BKP	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	9/6/23 13:51	BKP	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	9/6/23 13:51	BKP	EPA 8260D	
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.500	9/6/23 13:51	BKP	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	ug/L	0.200	9/6/23 13:51	BKP	EPA 8260D	
1,2-Dichlorobenzene	ND	ug/L	0.500	9/6/23 13:51	BKP	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	9/6/23 13:51	BKP	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	9/6/23 13:51	BKP	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	9/6/23 13:51	BKP	EPA 8260D	
1,3-Dichlorobenzene	ND	ug/L	0.500	9/6/23 13:51	BKP	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	9/6/23 13:51	BKP	EPA 8260D	
1,4-Dichlorobenzene	ND	ug/L	0.500	9/6/23 13:51	BKP	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	9/6/23 13:51	BKP	EPA 8260D	
2-Chloroethyl vinyl ether	ND	ug/L	2.50	9/6/23 13:51	BKP	EPA 8260D	
2-Chlorotoluene	ND	ug/L	0.500	9/6/23 13:51	BKP	EPA 8260D	
2-hexanone	ND	ug/L	2.50	9/6/23 13:51	BKP	EPA 8260D	
4-Chlorotoluene	ND	ug/L	0.500	9/6/23 13:51	BKP	EPA 8260D	
Acetone	ND	ug/L	2.50	9/6/23 13:51	BKP	EPA 8260D	
Acrolein	ND	ug/L	2.50	9/6/23 13:51	BKP	EPA 8260D	
Acrylonitrile	ND	ug/L	2.50	9/6/23 13:51	BKP	EPA 8260D	
Benzene	ND	ug/L	0.200	9/6/23 13:51	BKP	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	9/6/23 13:51	BKP	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	9/6/23 13:51	BKP	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.200	9/6/23 13:51	BKP	EPA 8260D	
Bromoform	ND	ug/L	0.500	9/6/23 13:51	BKP	EPA 8260D	
Bromomethane	ND	ug/L	0.500	9/6/23 13:51	BKP	EPA 8260D	
Carbon disulfide	ND	ug/L	2.50	9/6/23 13:51	BKP	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.200	9/6/23 13:51	BKP	EPA 8260D	
Chlorobenzene	ND	ug/L	0.500	9/6/23 13:51	BKP	EPA 8260D	
Chloroethane	ND	ug/L	0.500	9/6/23 13:51	BKP	EPA 8260D	
Chloroform	ND	ug/L	0.200	9/6/23 13:51	BKP	EPA 8260D	
Chloromethane	ND	ug/L	0.500	9/6/23 13:51	BKP	EPA 8260D	
cis-1,2-dichloroethene	ND	ug/L	0.500	9/6/23 13:51	BKP	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.200	9/6/23 13:51	BKP	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	9/6/23 13:51	BKP	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	9/6/23 13:51	BKP	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	9/6/23 13:51	BKP	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	9/6/23 13:51	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: 083023TB
Lab/Sample Number: MDI0025-12 Collect Date: 08/30/23 15:15
Date Received: 09/01/23 13:44 Collected By:
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Hexachlorobutadiene	ND	ug/L	0.500	9/6/23 13:51	BKP	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	9/6/23 13:51	BKP	EPA 8260D	
m+p-Xylene	ND	ug/L	1.00	9/6/23 13:51	BKP	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	9/6/23 13:51	BKP	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	9/6/23 13:51	BKP	EPA 8260D	
Methylene chloride	ND	ug/L	0.500	9/6/23 13:51	BKP	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	9/6/23 13:51	BKP	EPA 8260D	
Naphthalene	ND	ug/L	0.500	9/6/23 13:51	BKP	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	9/6/23 13:51	BKP	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	9/6/23 13:51	BKP	EPA 8260D	
o-Xylene	ND	ug/L	0.500	9/6/23 13:51	BKP	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	9/6/23 13:51	BKP	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	9/6/23 13:51	BKP	EPA 8260D	
Styrene	ND	ug/L	0.500	9/6/23 13:51	BKP	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	9/6/23 13:51	BKP	EPA 8260D	
Tetrachloroethene	ND	ug/L	0.500	9/6/23 13:51	BKP	EPA 8260D	
Toluene	ND	ug/L	0.500	9/6/23 13:51	BKP	EPA 8260D	
trans-1,2-Dichloroethene	ND	ug/L	0.500	9/6/23 13:51	BKP	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.200	9/6/23 13:51	BKP	EPA 8260D	
trans-1-4-Dichloro-2-butene	ND	ug/L	0.500	9/6/23 13:51	BKP	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	9/6/23 13:51	BKP	EPA 8260D	
Trichlorofluoromethane	ND	ug/L	0.500	9/6/23 13:51	BKP	EPA 8260D	
Vinyl acetate	ND	ug/L	0.500	9/6/23 13:51	BKP	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.200	9/6/23 13:51	BKP	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*100%*		*70-130*	*9/6/23 13:51*	*BKP*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*96.9%*		*70-130*	*9/6/23 13:51*	*BKP*	*EPA 8260D*	
Surrogate: Toluene-d8	*98.7%*		*70-130*	*9/6/23 13:51*	*BKP*	*EPA 8260D*	

Authorized Signature,

Justin Doty For Todd Taruscio, Laboratory Manager

L4	The associated blank spike recovery was below method acceptance limits. This analyte was not detected in the sample.
L5	The associated blank spike recovery was above laboratory/method acceptance limits. This analyte was not detected in the sample
M1	Matrix spike recovery was high; the associated blank spike recovery was acceptable. Potential matrix effect
M12	Matrix spike recovery was low. Potential matrix effect.
M13	Matrix spike recovery was high due to a potential matrix effect.
PQL	Practical Quantitation Limit
ND	Not Detected
MCL	EPA's Maximum Contaminant Level
Dry	Sample results reported on a dry weight basis
*	Not a state-certified analyte

RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was spiked or duplicated.

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Certifications

Code	Description	Facility	Number
DOE WA	Washington Department of Ecology	Anatek-Moscow, ID	C595

Quality Control Data

Inorganics

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0071 - Perchlorate										
Blank (BDI0071-BLK1)					Prepared: 9/5/2023 Analyzed: 9/15/2023					
Perchlorate	ND		0.500	ug/L						
LCS (BDI0071-BS1)					Prepared: 9/5/2023 Analyzed: 9/15/2023					
Perchlorate	1.09		0.500	ug/L	1.00		109	80-120		
Matrix Spike (BDI0071-MS1)		**Source: MDI0021-01**			Prepared: 9/5/2023 Analyzed: 9/15/2023					
Perchlorate	1.01		0.500	ug/L	1.00	ND	101	80-120		
Matrix Spike (BDI0071-MS2)		**Source: MDI0024-01**			Prepared: 9/5/2023 Analyzed: 9/18/2023					
Perchlorate	454		25.0	ug/L	250	182	109	80-120		
Matrix Spike Dup (BDI0071-MSD1)		**Source: MDI0021-01**			Prepared: 9/5/2023 Analyzed: 9/15/2023					
Perchlorate	1.15		0.500	ug/L	1.00	ND	115	80-120	13.0	20
Matrix Spike Dup (BDI0071-MSD2)		**Source: MDI0024-01**			Prepared: 9/5/2023 Analyzed: 9/18/2023					
Perchlorate	496	M13	25.0	ug/L	250	182	126	80-120	8.84	20

Quality Control Data

Semivolatiles

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0064 - Explosives										
Blank (BDI0064-BLK1)					Prepared: 9/5/2023 Analyzed: 9/15/2023					
HMX	ND		0.100	ug/L						
RDX	ND		0.100	ug/L						
1,3,5-TNB	ND		0.500	ug/L						
1,3-Dinitrobenzene	ND		0.500	ug/L						
NB	ND		0.500	ug/L						
2,4,6-Trinitrotoluene	ND		0.100	ug/L						
Tetryl	ND		0.500	ug/L						
2,6-DNT	ND		0.500	ug/L						
2,4-Dinitrotoluene	ND		0.100	ug/L						
2-Nitrotoluene	ND		0.500	ug/L						
4-Nitrotoluene	ND		0.500	ug/L						
4-Amino-2,6-dinitrotoluene	ND		0.500	ug/L						
3-Nitrotoluene	ND		0.500	ug/L						
2-Amino-4,6-dinitrotoluene	ND		0.500	ug/L						
Surrogate: 1,2-Dinitrobenzene			*8.14*	*ug/L*	*10.0*		*81.4*	*70-130*		
Blank (BDI0064-BLK2)					Prepared: 9/5/2023 Analyzed: 9/15/2023					
HMX	ND		0.100	ug/L						
RDX	ND		0.100	ug/L						
1,3,5-TNB	ND		0.500	ug/L						
1,3-Dinitrobenzene	ND		0.500	ug/L						
NB	ND		0.500	ug/L						
2,4,6-Trinitrotoluene	ND		0.100	ug/L						
Tetryl	ND		0.500	ug/L						
2,6-DNT	ND		0.500	ug/L						
2,4-Dinitrotoluene	ND		0.100	ug/L						

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Quality Control Data
(Continued)

Semivolatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0064 - Explosives (Continued)										
Blank (BDI0064-BLK2)					Prepared: 9/5/2023 Analyzed: 9/15/2023					
2-Nitrotoluene	ND		0.500	ug/L						
4-Nitrotoluene	ND		0.500	ug/L						
4-Amino-2,6-dinitrotoluene	ND		0.500	ug/L						
3-Nitrotoluene	ND		0.500	ug/L						
2-Amino-4,6-dinitrotoluene	ND		0.500	ug/L						
Surrogate: 1,2-Dinitrobenzene			*8.13*	*ug/L*	*10.0*		*81.3*	*70-130*		
Blank (BDI0064-BLK3)					Prepared: 9/5/2023 Analyzed: 9/16/2023					
HMX	ND		0.100	ug/L						
RDX	ND		0.100	ug/L						
1,3,5-TNB	ND		0.500	ug/L						
1,3-Dinitrobenzene	ND		0.500	ug/L						
NB	ND		0.500	ug/L						
2,4,6-Trinitrotoluene	ND		0.100	ug/L						
Tetryl	ND		0.500	ug/L						
2,6-DNT	ND		0.500	ug/L						
2,4-Dinitrotoluene	ND		0.100	ug/L						
2-Nitrotoluene	ND		0.500	ug/L						
4-Nitrotoluene	ND		0.500	ug/L						
4-Amino-2,6-dinitrotoluene	ND		0.500	ug/L						
3-Nitrotoluene	ND		0.500	ug/L						
2-Amino-4,6-dinitrotoluene	ND		0.500	ug/L						
Surrogate: 1,2-Dinitrobenzene			*8.06*	*ug/L*	*10.0*		*80.6*	*70-130*		
LCS (BDI0064-BS1)					Prepared: 9/5/2023 Analyzed: 9/15/2023					
HMX	4.57		0.100	ug/L	5.00		91.3	70-130		
RDX	4.67		0.100	ug/L	5.00		93.5	70-130		
1,3,5-TNB	4.22		0.500	ug/L	5.00		84.3	70-130		
1,3-Dinitrobenzene	4.24		0.500	ug/L	5.00		84.9	70-130		
NB	4.13		0.500	ug/L	5.00		82.6	70-130		
2,4,6-Trinitrotoluene	4.32		0.100	ug/L	5.00		86.3	70-130		
Tetryl	4.34		0.500	ug/L	5.00		86.7	70-130		
2,6-DNT	4.54		0.500	ug/L	5.00		90.8	70-130		
2,4-Dinitrotoluene	4.32		0.100	ug/L	5.00		86.3	70-130		
2-Nitrotoluene	4.77		0.500	ug/L	5.00		95.5	70-130		
4-Nitrotoluene	4.53		0.500	ug/L	5.00		90.5	70-130		
4-Amino-2,6-dinitrotoluene	4.93		0.500	ug/L	5.00		98.7	70-130		
3-Nitrotoluene	5.60		0.500	ug/L	5.00		112	70-130		
2-Amino-4,6-dinitrotoluene	4.76		0.500	ug/L	5.00		95.3	70-130		
Surrogate: 1,2-Dinitrobenzene		*L4*	*5.84*	*ug/L*	*10.0*		*58.4*	*70-130*		

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Quality Control Data
(Continued)

Semivolatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0064 - Explosives (Continued)										
LCS (BDI0064-BS2)					Prepared: 9/5/2023 Analyzed: 9/15/2023					
HMX	4.62		0.100	ug/L	5.00		92.4	70-130		
RDX	4.90		0.100	ug/L	5.00		98.0	70-130		
1,3,5-TNB	4.19		0.500	ug/L	5.00		83.9	70-130		
1,3-Dinitrobenzene	4.27		0.500	ug/L	5.00		85.4	70-130		
NB	4.17		0.500	ug/L	5.00		83.3	70-130		
2,4,6-Trinitrotoluene	4.32		0.100	ug/L	5.00		86.5	70-130		
Tetryl	4.46		0.500	ug/L	5.00		89.2	70-130		
2,6-DNT	4.49		0.500	ug/L	5.00		89.9	70-130		
2,4-Dinitrotoluene	4.30		0.100	ug/L	5.00		85.9	70-130		
2-Nitrotoluene	4.82		0.500	ug/L	5.00		96.3	70-130		
4-Nitrotoluene	3.76		0.500	ug/L	5.00		75.1	70-130		
4-Amino-2,6-dinitrotoluene	4.24		0.500	ug/L	5.00		84.9	70-130		
3-Nitrotoluene	4.25		0.500	ug/L	5.00		85.0	70-130		
2-Amino-4,6-dinitrotoluene	4.27		0.500	ug/L	5.00		85.5	70-130		
Surrogate: 1,2-Dinitrobenzene		*L4*	*6.78*	*ug/L*	*10.0*		*67.8*	*70-130*		
LCS (BDI0064-BS3)					Prepared: 9/5/2023 Analyzed: 9/16/2023					
HMX	5.58		0.100	ug/L	5.00		112	70-130		
RDX	5.70		0.100	ug/L	5.00		114	70-130		
1,3,5-TNB	5.54		0.500	ug/L	5.00		111	70-130		
1,3-Dinitrobenzene	4.96		0.500	ug/L	5.00		99.1	70-130		
NB	4.73		0.500	ug/L	5.00		94.5	70-130		
2,4,6-Trinitrotoluene	5.68		0.100	ug/L	5.00		114	70-130		
Tetryl	4.04		0.500	ug/L	5.00		80.8	70-130		
2,6-DNT	4.66		0.500	ug/L	5.00		93.2	70-130		
2,4-Dinitrotoluene	4.91		0.100	ug/L	5.00		98.2	70-130		
2-Nitrotoluene	4.68		0.500	ug/L	5.00		93.6	70-130		
4-Nitrotoluene	3.60		0.500	ug/L	5.00		72.1	70-130		
4-Amino-2,6-dinitrotoluene	4.65		0.500	ug/L	5.00		93.1	70-130		
3-Nitrotoluene	4.66		0.500	ug/L	5.00		93.3	70-130		
2-Amino-4,6-dinitrotoluene	4.57		0.500	ug/L	5.00		91.3	70-130		
Surrogate: 1,2-Dinitrobenzene		*L4*	*6.76*	*ug/L*	*10.0*		*67.6*	*70-130*		

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Quality Control Data
(Continued)

Semivolatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0064 - Explosives (Continued)										
LCS Dup (BDI0064-BSD1)					Prepared: 9/5/2023 Analyzed: 9/15/2023					
HMX	4.71		0.100	ug/L	5.00		94.3	70-130	3.19	25
RDX	4.74		0.100	ug/L	5.00		94.8	70-130	1.46	25
1,3,5-TNB	4.38		0.500	ug/L	5.00		87.7	70-130	3.87	25
1,3-Dinitrobenzene	4.35		0.500	ug/L	5.00		87.0	70-130	2.56	25
NB	4.26		0.500	ug/L	5.00		85.2	70-130	3.17	25
2,4,6-Trinitrotoluene	4.43		0.100	ug/L	5.00		88.6	70-130	2.59	25
Tetryl	4.46		0.500	ug/L	5.00		89.2	70-130	2.76	25
2,6-DNT	4.42		0.500	ug/L	5.00		88.4	70-130	2.67	25
2,4-Dinitrotoluene	4.42		0.100	ug/L	5.00		88.3	70-130	2.33	25
2-Nitrotoluene	4.81		0.500	ug/L	5.00		96.3	70-130	0.811	25
4-Nitrotoluene	3.81		0.500	ug/L	5.00		76.2	70-130	17.2	25
4-Amino-2,6-dinitrotoluene	4.43		0.500	ug/L	5.00		88.6	70-130	10.8	25
3-Nitrotoluene	4.49		0.500	ug/L	5.00		89.9	70-130	21.9	25
2-Amino-4,6-dinitrotoluene	4.52		0.500	ug/L	5.00		90.4	70-130	5.31	25
Surrogate: 1,2-Dinitrobenzene		*L4*	*6.76*	*ug/L*	*10.0*		*67.6*	*70-130*		
LCS Dup (BDI0064-BSD2)					Prepared: 9/5/2023 Analyzed: 9/15/2023					
HMX	4.77		0.100	ug/L	5.00		95.4	70-130	3.18	25
RDX	5.04		0.100	ug/L	5.00		101	70-130	2.78	25
1,3,5-TNB	4.37		0.500	ug/L	5.00		87.4	70-130	4.17	25
1,3-Dinitrobenzene	4.48		0.500	ug/L	5.00		89.6	70-130	4.73	25
NB	4.73		0.500	ug/L	5.00		94.7	70-130	12.8	25
2,4,6-Trinitrotoluene	4.45		0.100	ug/L	5.00		88.9	70-130	2.79	25
Tetryl	4.30		0.500	ug/L	5.00		86.0	70-130	3.63	25
2,6-DNT	4.42		0.500	ug/L	5.00		88.5	70-130	1.57	25
2,4-Dinitrotoluene	4.44		0.100	ug/L	5.00		88.9	70-130	3.35	25
2-Nitrotoluene	4.79		0.500	ug/L	5.00		95.8	70-130	0.554	25
4-Nitrotoluene	3.75		0.500	ug/L	5.00		75.0	70-130	0.208	25
4-Amino-2,6-dinitrotoluene	4.15		0.500	ug/L	5.00		83.1	70-130	2.14	25
3-Nitrotoluene	4.16		0.500	ug/L	5.00		83.2	70-130	2.14	25
2-Amino-4,6-dinitrotoluene	4.56		0.500	ug/L	5.00		91.1	70-130	6.40	25
Surrogate: 1,2-Dinitrobenzene		*L4*	*5.94*	*ug/L*	*10.0*		*59.4*	*70-130*		

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Quality Control Data
(Continued)

Semivolatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0064 - Explosives (Continued)										
LCS Dup (BDI0064-BSD3)					Prepared: 9/5/2023 Analyzed: 9/16/2023					
HMX	5.16		0.100	ug/L	5.00		103	70-130	7.83	25
RDX	5.56		0.100	ug/L	5.00		111	70-130	2.50	25
1,3,5-TNB	5.39		0.500	ug/L	5.00		108	70-130	2.90	25
1,3-Dinitrobenzene	4.69		0.500	ug/L	5.00		93.7	70-130	5.64	25
NB	4.37		0.500	ug/L	5.00		87.4	70-130	7.89	25
2,4,6-Trinitrotoluene	5.51		0.100	ug/L	5.00		110	70-130	3.02	25
Tetryl	4.11		0.500	ug/L	5.00		82.3	70-130	1.84	25
2,6-DNT	4.66		0.500	ug/L	5.00		93.1	70-130	0.0833	25
2,4-Dinitrotoluene	4.70		0.100	ug/L	5.00		93.9	70-130	4.43	25
2-Nitrotoluene	4.58		0.500	ug/L	5.00		91.6	70-130	2.14	25
4-Nitrotoluene	3.63		0.500	ug/L	5.00		72.7	70-130	0.803	25
4-Amino-2,6-dinitrotoluene	4.64		0.500	ug/L	5.00		92.8	70-130	0.291	25
3-Nitrotoluene	4.65		0.500	ug/L	5.00		93.0	70-130	0.291	25
2-Amino-4,6-dinitrotoluene	4.30		0.500	ug/L	5.00		86.1	70-130	5.91	25
Surrogate: 1,2-Dinitrobenzene		*L4*	*5.82*	*ug/L*	*10.0*		*58.2*	*70-130*		
Matrix Spike (BDI0064-MS1)		**Source: MDI0021-01**			Prepared: 9/5/2023 Analyzed: 9/15/2023					
HMX	4.42		0.100	ug/L	5.00	ND	88.5	70-130		
RDX	4.64		0.100	ug/L	5.00	ND	92.8	70-130		
1,3,5-TNB	4.07		0.500	ug/L	5.00	ND	81.5	70-130		
1,3-Dinitrobenzene	4.18		0.500	ug/L	5.00	ND	83.6	70-130		
NB	4.01		0.500	ug/L	5.00	ND	80.1	70-130		
2,4,6-Trinitrotoluene	4.19		0.100	ug/L	5.00	ND	83.7	70-130		
Tetryl	4.37		0.500	ug/L	5.00	ND	87.5	70-130		
2,6-DNT	4.45		0.500	ug/L	5.00	ND	89.1	70-130		
2,4-Dinitrotoluene	4.19		0.100	ug/L	5.00	ND	83.9	70-130		
2-Nitrotoluene	4.72		0.500	ug/L	5.00	ND	94.4	70-130		
4-Nitrotoluene	3.90		0.500	ug/L	5.00	ND	77.9	70-130		
4-Amino-2,6-dinitrotoluene	4.25		0.500	ug/L	5.00	ND	85.0	70-130		
3-Nitrotoluene	4.64		0.500	ug/L	5.00	ND	92.8	70-130		
2-Amino-4,6-dinitrotoluene	4.35		0.500	ug/L	5.00	ND	86.9	70-130		
Surrogate: 1,2-Dinitrobenzene			*7.62*	*ug/L*	*10.0*		*76.2*	*70-130*		

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Quality Control Data
(Continued)

Semivolatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0064 - Explosives (Continued)										
Matrix Spike (BDI0064-MS2)		**Source: MDI0024-01**			Prepared: 9/5/2023 Analyzed: 9/15/2023					
HMX	6.53		0.100	ug/L	5.00	1.65	97.6	70-130		
RDX	8.84		0.100	ug/L	5.00	3.83	100	70-130		
1,3,5-TNB	4.40		0.500	ug/L	5.00	ND	87.9	70-130		
1,3-Dinitrobenzene	4.50		0.500	ug/L	5.00	ND	89.9	70-130		
NB	4.56		0.500	ug/L	5.00	ND	91.1	70-130		
2,4,6-Trinitrotoluene	4.51		0.100	ug/L	5.00	ND	90.3	70-130		
Tetryl	4.58		0.500	ug/L	5.00	ND	91.6	70-130		
2,6-DNT	4.67		0.500	ug/L	5.00	ND	93.5	70-130		
2,4-Dinitrotoluene	4.53		0.100	ug/L	5.00	ND	90.5	70-130		
2-Nitrotoluene	5.06		0.500	ug/L	5.00	ND	101	70-130		
4-Nitrotoluene	3.96		0.500	ug/L	5.00	ND	79.2	70-130		
4-Amino-2,6-dinitrotoluene	4.28		0.500	ug/L	5.00	ND	85.6	70-130		
3-Nitrotoluene	4.29		0.500	ug/L	5.00	ND	85.8	70-130		
2-Amino-4,6-dinitrotoluene	4.57		0.500	ug/L	5.00	ND	91.3	70-130		
Surrogate: 1,2-Dinitrobenzene			*8.06*	*ug/L*	*10.0*		*80.6*	*70-130*		
Matrix Spike (BDI0064-MS3)		**Source: MDI0025-01**			Prepared: 9/5/2023 Analyzed: 9/15/2023					
HMX	4.55		0.100	ug/L	5.00	ND	91.0	70-130		
RDX	4.87		0.100	ug/L	5.00	ND	97.3	70-130		
1,3,5-TNB	4.23		0.500	ug/L	5.00	ND	84.6	70-130		
1,3-Dinitrobenzene	4.22		0.500	ug/L	5.00	ND	84.3	70-130		
NB	4.12		0.500	ug/L	5.00	ND	82.4	70-130		
2,4,6-Trinitrotoluene	4.27		0.100	ug/L	5.00	ND	85.5	70-130		
Tetryl	4.23		0.500	ug/L	5.00	ND	84.6	70-130		
2,6-DNT	4.35		0.500	ug/L	5.00	ND	87.0	70-130		
2,4-Dinitrotoluene	4.32		0.100	ug/L	5.00	ND	86.3	70-130		
2-Nitrotoluene	4.67		0.500	ug/L	5.00	ND	93.5	70-130		
4-Nitrotoluene	8.59	M1	0.500	ug/L	5.00	ND	172	70-130		
4-Amino-2,6-dinitrotoluene	5.08		0.500	ug/L	5.00	ND	102	70-130		
3-Nitrotoluene	5.09		0.500	ug/L	5.00	ND	102	70-130		
2-Amino-4,6-dinitrotoluene	4.73		0.500	ug/L	5.00	ND	94.6	70-130		
Surrogate: 1,2-Dinitrobenzene			*7.18*	*ug/L*	*10.0*		*71.8*	*70-130*		

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Quality Control Data
(Continued)

Semivolatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0064 - Explosives (Continued)										
Matrix Spike (BDI0064-MS4)		**Source: MDI0036-01**			Prepared: 9/5/2023 Analyzed: 9/16/2023					
HMX	5.38		0.100	ug/L	5.00	ND	108	70-130		
RDX	5.79		0.100	ug/L	5.00	ND	116	70-130		
1,3,5-TNB	5.61		0.500	ug/L	5.00	ND	112	70-130		
1,3-Dinitrobenzene	5.04		0.500	ug/L	5.00	ND	101	70-130		
NB	4.76		0.500	ug/L	5.00	ND	95.2	70-130		
2,4,6-Trinitrotoluene	5.67		0.100	ug/L	5.00	ND	113	70-130		
Tetryl	4.08		0.500	ug/L	5.00	ND	81.6	70-130		
2,6-DNT	4.81		0.500	ug/L	5.00	ND	96.2	70-130		
2,4-Dinitrotoluene	5.00		0.100	ug/L	5.00	ND	100	70-130		
2-Nitrotoluene	4.70		0.500	ug/L	5.00	ND	94.0	70-130		
4-Nitrotoluene	3.50		0.500	ug/L	5.00	ND	70.0	70-130		
4-Amino-2,6-dinitrotoluene	4.55		0.500	ug/L	5.00	ND	91.1	70-130		
3-Nitrotoluene	4.56		0.500	ug/L	5.00	ND	91.2	70-130		
2-Amino-4,6-dinitrotoluene	4.23		0.500	ug/L	5.00	ND	84.7	70-130		
Surrogate: 1,2-Dinitrobenzene			*7.70*	*ug/L*	*10.0*		*77.0*	*70-130*		
Matrix Spike Dup (BDI0064-MSD1)		**Source: MDI0021-01**			Prepared: 9/5/2023 Analyzed: 9/15/2023					
HMX	4.54		0.100	ug/L	5.00	ND	90.8	70-130	2.62	25
RDX	4.76		0.100	ug/L	5.00	ND	95.3	70-130	2.59	25
1,3,5-TNB	4.23		0.500	ug/L	5.00	ND	84.6	70-130	3.76	25
1,3-Dinitrobenzene	4.26		0.500	ug/L	5.00	ND	85.2	70-130	1.95	25
NB	4.20		0.500	ug/L	5.00	ND	84.0	70-130	4.78	25
2,4,6-Trinitrotoluene	4.30		0.100	ug/L	5.00	ND	86.1	70-130	2.76	25
Tetryl	4.39		0.500	ug/L	5.00	ND	87.7	70-130	0.321	25
2,6-DNT	4.41		0.500	ug/L	5.00	ND	88.3	70-130	0.881	25
2,4-Dinitrotoluene	4.26		0.100	ug/L	5.00	ND	85.3	70-130	1.64	25
2-Nitrotoluene	4.76		0.500	ug/L	5.00	ND	95.3	70-130	0.915	25
4-Nitrotoluene	4.42		0.500	ug/L	5.00	ND	88.5	70-130	12.7	25
4-Amino-2,6-dinitrotoluene	4.50		0.500	ug/L	5.00	ND	90.0	70-130	5.73	25
3-Nitrotoluene	5.44		0.500	ug/L	5.00	ND	109	70-130	15.9	25
2-Amino-4,6-dinitrotoluene	4.45		0.500	ug/L	5.00	ND	88.9	70-130	2.29	25
Surrogate: 1,2-Dinitrobenzene			*8.15*	*ug/L*	*10.0*		*81.5*	*70-130*		

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Quality Control Data
(Continued)

Semivolatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0064 - Explosives (Continued)										
Matrix Spike Dup (BDI0064-MSD2)		**Source: MDI0024-01**			Prepared: 9/5/2023 Analyzed: 9/15/2023					
HMX	6.55		0.100	ug/L	5.00	1.65	98.0	70-130	0.299	25
RDX	8.88		0.100	ug/L	5.00	3.83	101	70-130	0.456	25
1,3,5-TNB	4.30		0.500	ug/L	5.00	ND	85.9	70-130	2.31	25
1,3-Dinitrobenzene	4.41		0.500	ug/L	5.00	ND	88.2	70-130	1.98	25
NB	4.37		0.500	ug/L	5.00	ND	87.4	70-130	4.15	25
2,4,6-Trinitrotoluene	4.45		0.100	ug/L	5.00	ND	89.1	70-130	1.32	25
Tetryl	4.79		0.500	ug/L	5.00	ND	95.8	70-130	4.52	25
2,6-DNT	4.58		0.500	ug/L	5.00	ND	91.6	70-130	2.03	25
2,4-Dinitrotoluene	4.44		0.100	ug/L	5.00	ND	88.7	70-130	2.00	25
2-Nitrotoluene	4.82		0.500	ug/L	5.00	ND	96.4	70-130	4.90	25
4-Nitrotoluene	4.54		0.500	ug/L	5.00	ND	90.9	70-130	13.8	25
4-Amino-2,6-dinitrotoluene	4.59		0.500	ug/L	5.00	ND	91.7	70-130	6.87	25
3-Nitrotoluene	4.60		0.500	ug/L	5.00	ND	91.9	70-130	6.87	25
2-Amino-4,6-dinitrotoluene	4.39		0.500	ug/L	5.00	ND	87.9	70-130	3.83	25
Surrogate: 1,2-Dinitrobenzene			*7.69*	*ug/L*	*10.0*		*76.9*	*70-130*		
Matrix Spike Dup (BDI0064-MSD3)		**Source: MDI0025-01**			Prepared: 9/5/2023 Analyzed: 9/15/2023					
HMX	4.49		0.100	ug/L	5.00	ND	89.9	70-130	1.17	25
RDX	4.88		0.100	ug/L	5.00	ND	97.7	70-130	0.385	25
1,3,5-TNB	4.18		0.500	ug/L	5.00	ND	83.6	70-130	1.23	25
1,3-Dinitrobenzene	4.20		0.500	ug/L	5.00	ND	84.0	70-130	0.363	25
NB	4.03		0.500	ug/L	5.00	ND	80.6	70-130	2.15	25
2,4,6-Trinitrotoluene	4.26		0.100	ug/L	5.00	ND	85.1	70-130	0.453	25
Tetryl	4.37		0.500	ug/L	5.00	ND	87.4	70-130	3.31	25
2,6-DNT	4.56		0.500	ug/L	5.00	ND	91.3	70-130	4.74	25
2,4-Dinitrotoluene	4.30		0.100	ug/L	5.00	ND	86.1	70-130	0.290	25
2-Nitrotoluene	4.90		0.500	ug/L	5.00	ND	98.0	70-130	4.72	25
4-Nitrotoluene	7.99	M1	0.500	ug/L	5.00	ND	160	70-130	7.30	25
4-Amino-2,6-dinitrotoluene	4.59		0.500	ug/L	5.00	ND	91.9	70-130	10.1	25
3-Nitrotoluene	4.60		0.500	ug/L	5.00	ND	92.1	70-130	10.1	25
2-Amino-4,6-dinitrotoluene	4.27		0.500	ug/L	5.00	ND	85.4	70-130	10.1	25
Surrogate: 1,2-Dinitrobenzene			*7.02*	*ug/L*	*10.0*		*70.2*	*70-130*		

Quality Control Data
(Continued)

Semivolatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0064 - Explosives (Continued)										
Matrix Spike Dup (BDI0064-MSD4)	**Source: MDI0036-01**				Prepared: 9/5/2023 Analyzed: 9/16/2023					
HMX	5.58		0.100	ug/L	5.00	ND	112	70-130	3.74	25
RDX	5.90		0.100	ug/L	5.00	ND	118	70-130	1.87	25
1,3,5-TNB	5.70		0.500	ug/L	5.00	ND	114	70-130	1.57	25
1,3-Dinitrobenzene	4.99		0.500	ug/L	5.00	ND	99.9	70-130	0.935	25
NB	4.53		0.500	ug/L	5.00	ND	90.5	70-130	4.97	25
2,4,6-Trinitrotoluene	5.80		0.100	ug/L	5.00	ND	116	70-130	2.21	25
Tetryl	4.05		0.500	ug/L	5.00	ND	81.0	70-130	0.763	25
2,6-DNT	4.65		0.500	ug/L	5.00	ND	93.0	70-130	3.40	25
2,4-Dinitrotoluene	4.98		0.100	ug/L	5.00	ND	99.6	70-130	0.456	25
2-Nitrotoluene	4.55		0.500	ug/L	5.00	ND	91.1	70-130	3.17	25
4-Nitrotoluene	3.36	M12	0.500	ug/L	5.00	ND	67.3	70-130	4.06	25
4-Amino-2,6-dinitrotoluene	4.68		0.500	ug/L	5.00	ND	93.5	70-130	2.69	25
3-Nitrotoluene	4.69		0.500	ug/L	5.00	ND	93.7	70-130	2.69	25
2-Amino-4,6-dinitrotoluene	4.24		0.500	ug/L	5.00	ND	84.8	70-130	0.131	25
Surrogate: 1,2-Dinitrobenzene			*7.97*	*ug/L*	*10.0*		*79.7*	*70-130*		

Quality Control Data
(Continued)

Volatiles

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0072 - VOC										
Blank (BDI0072-BLK1)					Prepared & Analyzed: 9/5/2023					
1,1,2,2-Tetrachloroethane	ND		0.500	ug/L						
Dibromochloromethane	ND		0.500	ug/L						
Carbon Tetrachloride	ND		0.500	ug/L						
Methyl ethyl ketone (MEK)	ND		2.50	ug/L						
m/p Xylenes (MCL for total)	ND		0.500	ug/L						
Isopropylbenzene	ND		0.500	ug/L						
Hexachlorobutadiene	ND		0.500	ug/L						
Ethylbenzene	ND		0.500	ug/L						
Naphthalene	ND		0.500	ug/L						
Dibromomethane	ND		0.500	ug/L						
n-Butylbenzene	ND		0.500	ug/L						
cis-1,3-Dichloropropene	ND		0.500	ug/L						
cis-1,2-Dichloroethylene	ND		0.500	ug/L						
Chloromethane	ND		0.500	ug/L						
Chloroform	ND		0.500	ug/L						
Chloroethane	ND		0.500	ug/L						
Chlorobenzene (Monochlorobenzene)	ND		0.500	ug/L						
Dichlorodifluoromethane	ND		0.500	ug/L						
Tetrachloroethylene	ND		0.500	ug/L						
1,1,1-Trichloroethane	ND		0.500	ug/L						
Vinyl Chloride	ND		0.500	ug/L						
Trichloroflouromethane	ND		0.500	ug/L						
Trichloroethene	ND		0.500	ug/L						
trans-1,3-Dichloropropene	ND		0.500	ug/L						
trans-1,2 Dichloroethylene	ND		0.500	ug/L						

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Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0072 - VOC (Continued)										
Blank (BDI0072-BLK1)					Prepared & Analyzed: 9/5/2023					
Methylene Chloride (Dichloromethane)	ND		2.50	ug/L						
Toluene	ND		0.500	ug/L						
Methyl isobutyl ketone (MIBK)	ND		2.50	ug/L						
tert-Butylbenzene	ND		0.500	ug/L						
Styrene	ND		0.500	ug/L						
sec-Butylbenzene	ND		0.500	ug/L						
p-isopropyltoluene	ND		0.500	ug/L						
o-Xylene (MCL for total)	ND		0.500	ug/L						
n-Propylbenzene	ND		0.500	ug/L						
1,2,3-Trichloropropane	ND		0.500	ug/L						
1,2-Dichloropropane	ND		0.500	ug/L						
1,2-Dichloroethane	ND		0.500	ug/L						
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	ND		0.500	ug/L						
EDB (screening)	ND		0.500	ug/L						
DBCP (screening)	ND		0.500	ug/L						
1,3,5-Trimethylbenzene	ND		0.500	ug/L						
1,2,4-Trichlorobenzene	ND		0.500	ug/L						
1,1-Dichloroethane	ND		0.500	ug/L						
1,2,3-Trichlorobenzene	ND		0.500	ug/L						
1,1-Dichloropropene	ND		0.500	ug/L						
1,1-Dichloroethylene	ND		0.500	ug/L						
Carbon disulfide	ND		0.500	ug/L						
1,1,2-Trichlorethane	ND		0.500	ug/L						
methyl-t-butyl ether (MTBE)	ND		0.500	ug/L						
1,1,1,2-Tetrachloroethane	ND		0.500	ug/L						
1,2,4-Trimethylbenzene	ND		0.500	ug/L						
Bromodichloromethane	ND		0.500	ug/L						
m-Dichlorobenzene	ND		0.500	ug/L						
Bromoform	ND		0.500	ug/L						
Bromochloromethane	ND		0.500	ug/L						
Bromobenzene	ND		0.500	ug/L						
Benzene	ND		0.500	ug/L						
Acrylonitrile	ND		0.500	ug/L						
Acetone	ND		2.50	ug/L						
p-Chlorotoluene	ND		0.500	ug/L						
2-hexanone	ND		2.50	ug/L						
o-Chlorotoluene	ND		0.500	ug/L						
2,2-Dichloropropane	ND		0.500	ug/L						
1,4-Dichlorobenzene (para-Dichlorobenzene)	ND		0.500	ug/L						
1,3-Dichloropropane	ND		0.500	ug/L						
Bromomethane	ND		0.500	ug/L						
Surrogate: Toluene-d8			*19.5*	*ug/L*	*20.0*		*97.6*	*70-130*		
Surrogate: 4-Bromofluorobenzene			*19.1*	*ug/L*	*20.0*		*95.5*	*70-130*		
Surrogate: 1,2-Dichlorobenzene-d4			*20.0*	*ug/L*	*20.0*		*100*	*70-130*		

Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0072 - VOC (Continued)										
LCS (BDI0072-BS1)					Prepared & Analyzed: 9/5/2023					
Chloroform	10.3		0.500	ug/L	10.0		103	80-120		
Methyl ethyl ketone (MEK)	10.2		2.50	ug/L	10.0		102	55-154		
m/p Xylenes (MCL for total)	23.0		0.500	ug/L	20.0		115	80-120		
Isopropylbenzene	12.0		0.500	ug/L	10.0		120	80-120		
Hexachlorobutadiene	11.0		0.500	ug/L	10.0		110	80-120		
Ethylbenzene	11.1		0.500	ug/L	10.0		111	80-120		
Dichlorodifluoromethane	11.2		0.500	ug/L	10.0		112	57-130		
Dibromomethane	10.2		0.500	ug/L	10.0		102	80-120		
Carbon Tetrachloride	10.6		0.500	ug/L	10.0		106	80-120		
Dibromochloromethane	9.95		0.500	ug/L	10.0		99.5	80-121		
cis-1,2-Dichloroethylene	10.6		0.500	ug/L	10.0		106	80-120		
Chloroethane	8.34		0.500	ug/L	10.0		83.4	78-120		
Methyl isobutyl ketone (MIBK)	9.62		2.50	ug/L	10.0		96.2	70-136		
tert-Butylbenzene	11.9		0.500	ug/L	10.0		119	80-120		
Chlorobenzene (Monochlorobenzene)	9.40		0.500	ug/L	10.0		94.0	80-120		
cis-1,3-Dichloropropene	9.84		0.500	ug/L	10.0		98.4	79-123		
Styrene	11.9		0.500	ug/L	10.0		119	80-120		
Carbon disulfide	10.1		0.500	ug/L	10.0		101	80-120		
Trichloroethene	10.5		0.500	ug/L	10.0		105	80-120		
trans-1,3-Dichloropropene	9.92		0.500	ug/L	10.0		99.2	69-130		
trans-1,2 Dichloroethylene	10.4		0.500	ug/L	10.0		104	80-120		
sec-Butylbenzene	12.3	L5	0.500	ug/L	10.0		123	80-120		
Tetrachloroethylene	10.8		0.500	ug/L	10.0		108	80-120		
methyl-t-butyl ether (MTBE)	10.2		0.500	ug/L	10.0		102	71-130		
Trichloroflouromethane	10.5		0.500	ug/L	10.0		105	61-140		
p-isopropyltoluene	11.5		0.500	ug/L	10.0		115	80-120		
o-Xylene (MCL for total)	11.5		0.500	ug/L	10.0		115	80-120		
n-Propylbenzene	11.7		0.500	ug/L	10.0		117	80-120		
n-Butylbenzene	11.1		0.500	ug/L	10.0		111	74-122		
Naphthalene	10.1		0.500	ug/L	10.0		101	66-133		
Toluene	10.3		0.500	ug/L	10.0		103	80-120		
Vinyl Chloride	9.63		0.500	ug/L	10.0		96.3	75-120		
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	9.87		0.500	ug/L	10.0		98.7	80-120		
EDB (screening)	10.5		0.500	ug/L	10.0		105	70-130		
DBCP (screening)	9.38		0.500	ug/L	10.0		93.8	71-128		
1,2,4-Trimethylbenzene	12.0		0.500	ug/L	10.0		120	80-120		
1,2,4-Trichlorobenzene	10.9		0.500	ug/L	10.0		109	80-120		
1,2,3-Trichlorobenzene	11.0		0.500	ug/L	10.0		110	78-120		
1,2,3-Trichloropropane	10.1		0.500	ug/L	10.0		101	80-120		
1,1-Dichloroethylene	10.6		0.500	ug/L	10.0		106	70-129		
1,1-Dichloroethane	9.96		0.500	ug/L	10.0		99.6	80-120		
1,1,2-Trichlorethane	9.98		0.500	ug/L	10.0		99.8	80-120		
1,1,2,2-Tetrachloroethane	9.75		0.500	ug/L	10.0		97.5	77-123		
1,1,1-Trichloroethane	10.3		0.500	ug/L	10.0		103	80-120		
Bromoform	9.77		0.500	ug/L	10.0		97.7	68-133		
1,1,1,2-Tetrachloroethane	10.0		0.500	ug/L	10.0		100	80-120		
Acrylonitrile	10.1		0.500	ug/L	10.0		101	73-131		
Bromodichloromethane	9.58		0.500	ug/L	10.0		95.8	80-120		
1,1-Dichloropropene	11.4		0.500	ug/L	10.0		114	80-120		
1,2-Dichloroethane	9.50		0.500	ug/L	10.0		95.0	80-120		

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Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0072 - VOC (Continued)										
LCS (BDI0072-BS1)					Prepared & Analyzed: 9/5/2023					
Bromochloromethane	10.4		0.500	ug/L	10.0		104	80-120		
Benzene	10.3		0.500	ug/L	10.0		103	80-120		
p-Chlorotoluene	11.4		0.500	ug/L	10.0		114	80-124		
m-Dichlorobenzene	9.94		0.500	ug/L	10.0		99.4	80-120		
1,2-Dichloropropane	10.4		0.500	ug/L	10.0		104	80-120		
Bromobenzene	10.3		0.500	ug/L	10.0		103	80-120		
1,3,5-Trimethylbenzene	12.0		0.500	ug/L	10.0		120	80-121		
2-hexanone	9.41		2.50	ug/L	10.0		94.1	65-140		
1,3-Dichloropropane	10.5		0.500	ug/L	10.0		105	80-120		
1,4-Dichlorobenzene (para-Dichlorobenzene)	9.94		0.500	ug/L	10.0		99.4	80-120		
2,2-Dichloropropane	10.2		0.500	ug/L	10.0		102	80-120		
o-Chlorotoluene	12.0		0.500	ug/L	10.0		120	80-120		
Surrogate: Toluene-d8			*20.1*	*ug/L*	*20.0*		*101*	*70-130*		
Surrogate: 4-Bromofluorobenzene			*20.4*	*ug/L*	*20.0*		*102*	*70-130*		
Surrogate: 1,2-Dichlorobenzene-d4			*20.0*	*ug/L*	*20.0*		*100*	*70-130*		
Matrix Spike (BDI0072-MS1)	**Source: MDI0021-01**				Prepared & Analyzed: 9/5/2023					
Ethylbenzene	9.49		0.500	ug/L	10.0	ND	94.9	70-130		
Carbon Tetrachloride	9.68		0.500	ug/L	10.0	ND	96.8	70-130		
Methyl ethyl ketone (MEK)	8.68		2.50	ug/L	10.0	ND	86.8	47-165		
m/p Xylenes (MCL for total)	18.4		0.500	ug/L	20.0	ND	92.0	57-130		
Isopropylbenzene	9.30		0.500	ug/L	10.0	ND	93.0	70-130		
Hexachlorobutadiene	9.44		0.500	ug/L	10.0	ND	94.4	70-130		
methyl-t-butyl ether (MTBE)	7.66		0.500	ug/L	10.0	ND	76.6	57-138		
Dichlorodifluoromethane	8.87		0.500	ug/L	10.0	ND	88.7	57-136		
Dibromomethane	9.39		0.500	ug/L	10.0	ND	93.9	70-130		
Dibromochloromethane	9.01		0.500	ug/L	10.0	ND	90.1	70-130		
cis-1,3-Dichloropropene	7.87		0.500	ug/L	10.0	ND	78.7	74-124		
cis-1,2-Dichloroethylene	8.92		0.500	ug/L	10.0	ND	89.2	70-130		
Chloroform	9.81		0.500	ug/L	10.0	ND	98.1	70-130		
Chlorobenzene (Monochlorobenzene)	9.13		0.500	ug/L	10.0	ND	91.3	70-130		
Chloroethane	11.2		0.500	ug/L	10.0	ND	112	68-138		
Tetrachloroethylene	9.28		0.500	ug/L	10.0	ND	92.8	70-130		
Methyl isobutyl ketone (MIBK)	8.45		2.50	ug/L	10.0	ND	84.5	53-167		
Vinyl Chloride	10.2		0.500	ug/L	10.0	ND	102	70-130		
Carbon disulfide	9.53		0.500	ug/L	10.0	ND	95.3	70-130		
Trichloroethene	8.79		0.500	ug/L	10.0	ND	87.9	70-130		
trans-1,3-Dichloropropene	8.07		0.500	ug/L	10.0	ND	80.7	61-131		
trans-1,2 Dichloroethylene	9.44		0.500	ug/L	10.0	ND	94.4	70-130		
Trichloroflouromethane	9.86		0.500	ug/L	10.0	ND	98.6	50-154		
Toluene	9.59		0.500	ug/L	10.0	ND	95.9	70-130		
n-Butylbenzene	9.46		0.500	ug/L	10.0	ND	94.6	67-130		
tert-Butylbenzene	9.70		0.500	ug/L	10.0	ND	97.0	70-130		
Styrene	10.1		0.500	ug/L	10.0	ND	101	30-130		
sec-Butylbenzene	10.2		0.500	ug/L	10.0	ND	102	70-130		
p-isopropyltoluene	9.84		0.500	ug/L	10.0	ND	98.4	70-130		
o-Xylene (MCL for total)	9.19		0.500	ug/L	10.0	ND	91.9	62-127		
n-Propylbenzene	10.3		0.500	ug/L	10.0	ND	103	70-130		
1,1-Dichloropropene	9.87		0.500	ug/L	10.0	ND	98.7	70-130		
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	9.09		0.500	ug/L	10.0	ND	90.9	70-130		

Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0072 - VOC (Continued)										
Matrix Spike (BDI0072-MS1)	**Source: MDI0021-01**				Prepared & Analyzed: 9/5/2023					
EDB (screening)	9.33		0.500	ug/L	10.0	ND	93.3	70-130		
DBCP (screening)	8.02		0.500	ug/L	10.0	ND	80.2	55-146		
1,2,4-Trimethylbenzene	10.4		0.500	ug/L	10.0	ND	104	40-140		
1,1,1,2-Tetrachloroethane	9.41		0.500	ug/L	10.0	ND	94.1	70-130		
Bromoform	8.77		0.500	ug/L	10.0	ND	87.7	59-140		
1,2,4-Trichlorobenzene	7.41		0.500	ug/L	10.0	ND	74.1	70-130		
1,1-Dichloroethylene	8.68		0.500	ug/L	10.0	ND	86.8	70-130		
1,1-Dichloroethane	9.26		0.500	ug/L	10.0	ND	92.6	70-130		
1,1,2-Trichlorethane	9.53		0.500	ug/L	10.0	ND	95.3	70-130		
1,1,2,2-Tetrachloroethane	10.0		0.500	ug/L	10.0	ND	100	67-136		
1,1,1-Trichloroethane	9.50		0.500	ug/L	10.0	ND	95.0	70-130		
Naphthalene	7.22		0.500	ug/L	10.0	ND	72.2	56-147		
1,2,3-Trichloropropane	9.63		0.500	ug/L	10.0	ND	96.3	69-137		
p-Chlorotoluene	10.5		0.500	ug/L	10.0	ND	105	70-130		
Bromodichloromethane	9.19		0.500	ug/L	10.0	ND	91.9	70-130		
1,2,3-Trichlorobenzene	8.42		0.500	ug/L	10.0	ND	84.2	67-134		
1,2-Dichloroethane	9.54		0.500	ug/L	10.0	ND	95.4	70-130		
Bromobenzene	9.31		0.500	ug/L	10.0	ND	93.1	70-130		
Acrylonitrile	9.38		0.500	ug/L	10.0	ND	93.8	65-137		
Bromochloromethane	9.53		0.500	ug/L	10.0	ND	95.3	70-130		
2-hexanone	8.24		2.50	ug/L	10.0	ND	82.4	43-175		
o-Chlorotoluene	10.3		0.500	ug/L	10.0	ND	103	70-130		
2,2-Dichloropropane	8.60		0.500	ug/L	10.0	ND	86.0	70-130		
1,4-Dichlorobenzene (para-Dichlorobenzene)	9.02		0.500	ug/L	10.0	ND	90.2	70-130		
1,3-Dichloropropane	9.46		0.500	ug/L	10.0	ND	94.6	70-130		
m-Dichlorobenzene	9.02		0.500	ug/L	10.0	ND	90.2	70-130		
1,3,5-Trimethylbenzene	10.4		0.500	ug/L	10.0	ND	104	40-140		
1,2-Dichloropropane	9.20		0.500	ug/L	10.0	ND	92.0	70-130		
Benzene	9.50		0.500	ug/L	10.0	ND	95.0	70-130		
Surrogate: Toluene-d8			*20.8*	*ug/L*	*20.0*		*104*	*70-130*		
Surrogate: 4-Bromofluorobenzene			*21.0*	*ug/L*	*20.0*		*105*	*70-130*		
Surrogate: 1,2-Dichlorobenzene-d4			*20.0*	*ug/L*	*20.0*		*100*	*70-130*		

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Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0072 - VOC (Continued)										
Matrix Spike Dup (BDI0072-MSD1)	**Source: MDI0021-01**				Prepared & Analyzed: 9/5/2023					
Ethylbenzene	9.90		0.500	ug/L	10.0	ND	99.0	70-130	4.23	20
Methyl isobutyl ketone (MIBK)	8.76		2.50	ug/L	10.0	ND	87.6	53-167	3.60	20
Methyl ethyl ketone (MEK)	9.06		2.50	ug/L	10.0	ND	90.6	47-165	4.28	20
m/p Xylenes (MCL for total)	19.6		0.500	ug/L	20.0	ND	98.1	57-130	6.42	20
Isopropylbenzene	9.96		0.500	ug/L	10.0	ND	99.6	70-130	6.85	20
Hexachlorobutadiene	10.4		0.500	ug/L	10.0	ND	104	70-130	9.68	20
Dichlorodifluoromethane	9.44		0.500	ug/L	10.0	ND	94.4	57-136	6.23	20
Dibromomethane	9.55		0.500	ug/L	10.0	ND	95.5	70-130	1.69	20
Dibromochloromethane	8.95		0.500	ug/L	10.0	ND	89.5	70-130	0.668	20
cis-1,3-Dichloropropene	8.44		0.500	ug/L	10.0	ND	84.4	74-124	6.99	20
cis-1,2-Dichloroethylene	9.64		0.500	ug/L	10.0	ND	96.4	70-130	7.76	20
Chloroform	10.0		0.500	ug/L	10.0	ND	100	70-130	2.22	20
Chlorobenzene (Monochlorobenzene)	9.02		0.500	ug/L	10.0	ND	90.2	70-130	1.21	20
Chloroethane	11.9		0.500	ug/L	10.0	ND	119	68-138	6.07	20
tert-Butylbenzene	10.3		0.500	ug/L	10.0	ND	103	70-130	6.10	20
1,2-Dichloroethane	9.49		0.500	ug/L	10.0	ND	94.9	70-130	0.525	20
Trichloroflouromethane	10.4		0.500	ug/L	10.0	ND	104	50-154	4.95	20
Carbon Tetrachloride	10.0		0.500	ug/L	10.0	ND	100	70-130	3.35	20
trans-1,3-Dichloropropene	8.46		0.500	ug/L	10.0	ND	84.6	61-131	4.72	20
trans-1,2 Dichloroethylene	10.0		0.500	ug/L	10.0	ND	100	70-130	5.76	20
Trichloroethene	9.56		0.500	ug/L	10.0	ND	95.6	70-130	8.39	20
Tetrachloroethylene	9.68		0.500	ug/L	10.0	ND	96.8	70-130	4.22	20
methyl-t-butyl ether (MTBE)	8.29		0.500	ug/L	10.0	ND	82.9	57-138	7.90	20
Styrene	10.3		0.500	ug/L	10.0	ND	103	30-130	2.06	20
sec-Butylbenzene	10.7		0.500	ug/L	10.0	ND	107	70-130	5.27	20
p-isopropyltoluene	10.2		0.500	ug/L	10.0	ND	102	70-130	3.49	20
o-Xylene (MCL for total)	9.80		0.500	ug/L	10.0	ND	98.0	62-127	6.42	20
n-Propylbenzene	10.6		0.500	ug/L	10.0	ND	106	70-130	2.88	20
n-Butylbenzene	10.4		0.500	ug/L	10.0	ND	104	67-130	9.47	20
Naphthalene	8.15		0.500	ug/L	10.0	ND	81.5	56-147	12.1	20
Toluene	10.0		0.500	ug/L	10.0	ND	100	70-130	4.29	20
1,1-Dichloroethylene	9.64		0.500	ug/L	10.0	ND	96.4	70-130	10.5	20
EDB (screening)	9.49		0.500	ug/L	10.0	ND	94.9	70-130	1.70	20
DBCP (screening)	8.61		0.500	ug/L	10.0	ND	86.1	55-146	7.10	20
1,2,4-Trimethylbenzene	10.7		0.500	ug/L	10.0	ND	107	40-140	2.65	20
1,2,4-Trichlorobenzene	8.39		0.500	ug/L	10.0	ND	83.9	70-130	12.4	20
1,2,3-Trichloropropane	9.50		0.500	ug/L	10.0	ND	95.0	69-137	1.36	20
1,3,5-Trimethylbenzene	10.7		0.500	ug/L	10.0	ND	107	40-140	2.65	20
1,1-Dichloropropene	10.5		0.500	ug/L	10.0	ND	105	70-130	6.57	20
1,2-Dichloropropane	9.79		0.500	ug/L	10.0	ND	97.9	70-130	6.21	20
1,1-Dichloroethane	9.80		0.500	ug/L	10.0	ND	98.0	70-130	5.67	20
1,1,2-Trichlorethane	9.38		0.500	ug/L	10.0	ND	93.8	70-130	1.59	20
1,1,2,2-Tetrachloroethane	9.71		0.500	ug/L	10.0	ND	97.1	67-136	3.04	20
1,1,1-Trichloroethane	9.94		0.500	ug/L	10.0	ND	99.4	70-130	4.53	20
1,1,1,2-Tetrachloroethane	9.49		0.500	ug/L	10.0	ND	94.9	70-130	0.847	20
Vinyl Chloride	10.7		0.500	ug/L	10.0	ND	107	70-130	4.40	20
1,2,3-Trichlorobenzene	9.29		0.500	ug/L	10.0	ND	92.9	67-134	9.82	20
2-hexanone	8.39		2.50	ug/L	10.0	ND	83.9	43-175	1.80	20
Bromoform	8.62		0.500	ug/L	10.0	ND	86.2	59-140	1.73	20
Bromodichloromethane	9.40		0.500	ug/L	10.0	ND	94.0	70-130	2.26	20

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Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0072 - VOC (Continued)										
Matrix Spike Dup (BDI0072-MSD1)	**Source: MDI0021-01**				Prepared & Analyzed: 9/5/2023					
Bromochloromethane	9.65		0.500	ug/L	10.0	ND	96.5	70-130	1.25	20
Bromobenzene	9.39		0.500	ug/L	10.0	ND	93.9	70-130	0.856	20
Benzene	9.98		0.500	ug/L	10.0	ND	99.8	70-130	4.93	20
Acrylonitrile	9.54		0.500	ug/L	10.0	ND	95.4	65-137	1.69	20
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	9.46		0.500	ug/L	10.0	ND	94.6	70-130	3.99	20
o-Chlorotoluene	10.6		0.500	ug/L	10.0	ND	106	70-130	2.98	20
2,2-Dichloropropane	9.32		0.500	ug/L	10.0	ND	93.2	70-130	8.04	20
1,4-Dichlorobenzene (para-Dichlorobenzene)	9.51		0.500	ug/L	10.0	ND	95.1	70-130	5.29	20
1,3-Dichloropropane	9.58		0.500	ug/L	10.0	ND	95.8	70-130	1.26	20
m-Dichlorobenzene	9.51		0.500	ug/L	10.0	ND	95.1	70-130	5.29	20
Carbon disulfide	10.1		0.500	ug/L	10.0	ND	101	70-130	5.81	20
p-Chlorotoluene	10.6		0.500	ug/L	10.0	ND	106	70-130	1.71	20
Surrogate: Toluene-d8			*20.5*	*ug/L*	*20.0*		*103*	*70-130*		
Surrogate: 4-Bromofluorobenzene			*20.4*	*ug/L*	*20.0*		*102*	*70-130*		
Surrogate: 1,2-Dichlorobenzene-d4			*20.0*	*ug/L*	*20.0*		*100*	*70-130*		

ANATEK LABS

Chain of Custody Record

Anatek Labs, Inc.
1282 Alturas Drive, Moscow ID 83843 (208) 883-2839
504 E Sprague Ste D, Spokane WA 99202 (509) 838-3999

MDI0025

Due: 09/18/23

Company Name: PBS Engineering and Environmental	Project Manager: Scott Braunsten
Address: 4412 S Corbett Ave	Project Name & #: Camp Bonneville, 76151.012
City: Portland State: OR Zip: 97239	Purchase Order #:
Phone: 503-248-1939	Sampler Name & Phone: Riley Martin 702-379-7749
Email Address(es): scott.braunsten@pbsusa.com, samantha.eckes@pbsusa.com	

Turn Around Time & Reporting

Please refer to o
www.anat

✓ Normal
__ Next Day*
__ 2nd Day*
__ Other*_____

List Analyses Requested

Lab ID	Sample Identification	Sampling Date/Time	Matrix	Preservative:	# of Containers	Sample Volume	VOCs by 8260B	Explosives by 8330	Perchlorate by 6850	RDX
	03Q23LC035W	8-30-23 845	H2O		4					X
	03Q23LCMW045W	940			6		X	X	X	
	03Q23LCMW04DW	1025			6		X	X	X	
	03Q23L4MW17W	1130			6		X	X	X	
	03Q23L4MW18W	1225			6		X	X	X	
	03Q23L4MW07BW	1315			6		X	X	X	
	03Q23L4MW145W	800			6		X	X	X	
	03Q23NF025W	1300			2					X
	03Q23DP055W	830			2					X
	03Q23L4MW01AW	1420			6		X	X	X	
	03Q23L4MW01BW	1515			6		X	X	X	
	0B3023TB	-			1		X			

Note Special Instructions/Comments

Please send login confirmation

Please provide EQuIS EDD + WA EIM

MS/MSD

Inspection Checklist

Received Intact?	Y	N
Labels & Chains Agree?	Y	N
Containers Sealed?	Y	N
No VOC Head Space?	Y	N
Cooler?	Y	N
Ice/Ice Packs Present?	Y	N

Temperature (°C):_____
Number of Containers:_____
Shipped Via:_____
Preservative:_____
Date & Time:_____
Inspected By:_____

	Printed Name	Signature	Company	Date	Time
Relinquished by	RILEY MARTIN		PBS	8-30-23	1655
Received by	FB			9/1/23	13:44
Relinquished by					
Received by					
Relinquished by					
Received by					

Samples submitted to Anatek Labs may be subcontacted to other accredited labs if necessary. This message serves as notice of this possibility. Subcontracted analyses will be clearly noted on the analytical report.

Anatek Labs, Inc.

Sample Receipt and Preservation Form

Client Name: PBS

TAT: (Normal) RUSH: _____ days

Samples Received From: (FedEx) UPS USPS Client Courier Other: _____

Custody Seal on Cooler/Box: Yes (No) Custody Seals Intact: Yes No (N/A)

Number of Coolers/Boxes: 8 Type of Ice: (Wet Ice) Ice Packs Dry Ice None

Packing Material: (Bubble Wrap) (Bags) Foam/Peanuts Paper None Other: _____

Cooler Temp As Read (°C): 4.8 °C Cooler Temp Corrected (°C): — Thermometer Used: IR-5

				Comments:
Samples Received Intact?	(Yes)	No	N/A	
Chain of Custody Present/Complete?	(Yes)	No	N/A	
Labels and Chains Agree?	(Yes)	No	N/A	
Samples Received Within Hold Time?	(Yes)	No	N/A	
Correct Containers Received?	(Yes)	No	N/A	
Anatek Bottles Used?	(Yes)	No	Unknown	
Total Number of Sample Bottles Received: 57				

				Initial pH:	pH Paper ID:
Samples Properly Preserved?	(Yes)	No	N/A	<2 or	
If No, record preservation and pH-after details					
VOC Vials Free of Headspace (<6mm)?	(Yes)	No	N/A		
VOC Trip Blanks Present?	(Yes)	No	N/A		

Record preservatives (and lot numbers, if known) for containers below:

644 HCl 8260 x24 + TB GIL RDX x8

GIL Explosives x16

P125 Perchlorate x8

Notes, comments, etc. (also use this space if contacting the client - record names and date/time)

Received/Inspected By: TB Date/Time: 9/1/23 13:44

Form F19.01 - Eff 1 Dec 2022

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - email spokane@anateklabs.com

Client:	PBS Engineering - Portland	Work Order:	MDI0036
Address:	4412 SW Corbett Ave	Project:	Camp Bonneville, 76151.012
	Portland, OR 97239	Reported:	10/20/2023 13:20
Attn:	Scott Braunsten		

Analytical Results Report

Sample Location:	03Q23LCMW01DW		
Lab/Sample Number:	MDI0036-01	Collect Date:	08/29/23 11:45
Date Received:	08/30/23 12:24	Collected By:	
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Perchlorate	ND	ug/L	0.500	8/31/23 19:44	GPB	EPA 6850	
Semivolatiles							
1,3,5-TNB	ND	ug/L	0.500	9/16/23 14:00	MER	EPA 8330B	
1,3-Dinitrobenzene	ND	ug/L	0.500	9/16/23 14:00	MER	EPA 8330B	
2,4,6-Trinitrotoluene	ND	ug/L	0.100	9/16/23 14:00	MER	EPA 8330B	
2,4-Dinitrotoluene	ND	ug/L	0.100	9/16/23 14:00	MER	EPA 8330B	
2,6-DNT	ND	ug/L	0.500	9/16/23 14:00	MER	EPA 8330B	
2-Amino-4,6-dinitrotoluene	ND	ug/L	0.500	9/16/23 14:00	MER	EPA 8330B	
2-Nitrotoluene	ND	ug/L	0.500	9/16/23 14:00	MER	EPA 8330B	
3-Nitrotoluene	ND	ug/L	0.500	9/16/23 14:00	MER	EPA 8330B	
4-Amino-2,6-dinitrotoluene	ND	ug/L	0.500	9/16/23 14:00	MER	EPA 8330B	
4-Nitrotoluene	ND	ug/L	0.500	9/16/23 14:00	MER	EPA 8330B	
HMX	ND	ug/L	0.100	9/16/23 14:00	MER	EPA 8330B	
NB	ND	ug/L	0.500	9/16/23 14:00	MER	EPA 8330B	
RDX	ND	ug/L	0.100	9/16/23 14:00	MER	EPA 8330B	
Tetryl	ND	ug/L	0.500	9/16/23 14:00	MER	EPA 8330B	
Surrogate: 1,2-Dinitrobenzene	*80.5%*		*70-130*	*9/16/23 14:00*	*MER*	*EPA 8330B*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	9/6/23 12:45	BKP	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	9/6/23 12:45	BKP	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	9/6/23 12:45	BKP	EPA 8260D	
1,1,2-Trichloroethane	ND	ug/L	0.500	9/6/23 12:45	BKP	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	9/6/23 12:45	BKP	EPA 8260D	
1,1-Dichloroethene	ND	ug/L	0.500	9/6/23 12:45	BKP	EPA 8260D	
1,1-dichloropropene	ND	ug/L	0.500	9/6/23 12:45	BKP	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	9/6/23 12:45	BKP	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	9/6/23 12:45	BKP	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	9/6/23 12:45	BKP	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	9/6/23 12:45	BKP	EPA 8260D	
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.500	9/6/23 12:45	BKP	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	ug/L	0.500	9/6/23 12:45	BKP	EPA 8260D	
1,2-Dichlorobenzene	ND	ug/L	0.500	9/6/23 12:45	BKP	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	9/6/23 12:45	BKP	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	9/6/23 12:45	BKP	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	9/6/23 12:45	BKP	EPA 8260D	
1,3-Dichlorobenzene	ND	ug/L	0.500	9/6/23 12:45	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: 03Q23LCMW01DW
Lab/Sample Number: MDI0036-01 Collect Date: 08/29/23 11:45
Date Received: 08/30/23 12:24 Collected By:
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
1,3-Dichloropropane	ND	ug/L	0.500	9/6/23 12:45	BKP	EPA 8260D	
1,4-Dichlorobenzene	ND	ug/L	0.500	9/6/23 12:45	BKP	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	9/6/23 12:45	BKP	EPA 8260D	
2-Chlorotoluene	ND	ug/L	0.500	9/6/23 12:45	BKP	EPA 8260D	
2-hexanone	ND	ug/L	2.50	9/6/23 12:45	BKP	EPA 8260D	
4-Chlorotoluene	ND	ug/L	0.500	9/6/23 12:45	BKP	EPA 8260D	
Acetone	ND	ug/L	2.50	9/6/23 12:45	BKP	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	9/6/23 12:45	BKP	EPA 8260D	
Benzene	ND	ug/L	0.500	9/6/23 12:45	BKP	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	9/6/23 12:45	BKP	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	9/6/23 12:45	BKP	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	9/6/23 12:45	BKP	EPA 8260D	
Bromoform	ND	ug/L	0.500	9/6/23 12:45	BKP	EPA 8260D	
Bromomethane	ND	ug/L	0.500	9/6/23 12:45	BKP	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	9/6/23 12:45	BKP	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	9/6/23 12:45	BKP	EPA 8260D	
Chlorobenzene	ND	ug/L	0.500	9/6/23 12:45	BKP	EPA 8260D	
Chloroethane	ND	ug/L	0.500	9/6/23 12:45	BKP	EPA 8260D	
Chloroform	ND	ug/L	0.500	9/6/23 12:45	BKP	EPA 8260D	
Chloromethane	ND	ug/L	0.500	9/6/23 12:45	BKP	EPA 8260D	
cis-1,2-dichloroethene	ND	ug/L	0.500	9/6/23 12:45	BKP	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	9/6/23 12:45	BKP	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	9/6/23 12:45	BKP	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	9/6/23 12:45	BKP	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	9/6/23 12:45	BKP	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	9/6/23 12:45	BKP	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	9/6/23 12:45	BKP	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	9/6/23 12:45	BKP	EPA 8260D	
m+p-Xylene	ND	ug/L	0.500	9/6/23 12:45	BKP	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	9/6/23 12:45	BKP	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	9/6/23 12:45	BKP	EPA 8260D	
Methylene chloride	ND	ug/L	2.50	9/6/23 12:45	BKP	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	9/6/23 12:45	BKP	EPA 8260D	
Naphthalene	ND	ug/L	0.500	9/6/23 12:45	BKP	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	9/6/23 12:45	BKP	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	9/6/23 12:45	BKP	EPA 8260D	
o-Xylene	ND	ug/L	0.500	9/6/23 12:45	BKP	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	9/6/23 12:45	BKP	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	9/6/23 12:45	BKP	EPA 8260D	
Styrene	ND	ug/L	0.500	9/6/23 12:45	BKP	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	9/6/23 12:45	BKP	EPA 8260D	
Tetrachloroethene	ND	ug/L	0.500	9/6/23 12:45	BKP	EPA 8260D	
Toluene	ND	ug/L	0.500	9/6/23 12:45	BKP	EPA 8260D	
trans-1,2-Dichloroethene	ND	ug/L	0.500	9/6/23 12:45	BKP	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	9/6/23 12:45	BKP	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	9/6/23 12:45	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location:	03Q23LCMW01DW		
Lab/Sample Number:	MDI0036-01	Collect Date:	08/29/23 11:45
Date Received:	08/30/23 12:24	Collected By:	
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Trichlorofluoromethane	ND	ug/L	0.500	9/6/23 12:45	BKP	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	9/6/23 12:45	BKP	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*100%*		*70-130*	*9/6/23 12:45*	*BKP*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*94.7%*		*70-130*	*9/6/23 12:45*	*BKP*	*EPA 8260D*	
Surrogate: Toluene-d8	*98.0%*		*70-130*	*9/6/23 12:45*	*BKP*	*EPA 8260D*	

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Analytical Results Report

(Continued)

Sample Location: 03Q23LCMW01SW
Lab/Sample Number: MDI0036-02 Collect Date: 08/29/23 12:45
Date Received: 08/30/23 12:24 Collected By:
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Perchlorate	ND	ug/L	0.500	8/31/23 19:58	GPB	EPA 6850	
Semivolatiles							
1,3,5-TNB	ND	ug/L	0.500	9/16/23 15:53	MER	EPA 8330B	
1,3-Dinitrobenzene	ND	ug/L	0.500	9/16/23 15:53	MER	EPA 8330B	
2,4,6-Trinitrotoluene	ND	ug/L	0.100	9/16/23 15:53	MER	EPA 8330B	
2,4-Dinitrotoluene	ND	ug/L	0.100	9/16/23 15:53	MER	EPA 8330B	
2,6-DNT	ND	ug/L	0.500	9/16/23 15:53	MER	EPA 8330B	
2-Amino-4,6-dinitrotoluene	ND	ug/L	0.500	9/16/23 15:53	MER	EPA 8330B	
2-Nitrotoluene	ND	ug/L	0.500	9/16/23 15:53	MER	EPA 8330B	
3-Nitrotoluene	ND	ug/L	0.500	9/16/23 15:53	MER	EPA 8330B	
4-Amino-2,6-dinitrotoluene	ND	ug/L	0.500	9/16/23 15:53	MER	EPA 8330B	
4-Nitrotoluene	ND	ug/L	0.500	9/16/23 15:53	MER	EPA 8330B	
HMX	ND	ug/L	0.100	9/16/23 15:53	MER	EPA 8330B	
NB	ND	ug/L	0.500	9/16/23 15:53	MER	EPA 8330B	
RDX	ND	ug/L	0.100	9/16/23 15:53	MER	EPA 8330B	
Tetryl	ND	ug/L	0.500	9/16/23 15:53	MER	EPA 8330B	
Surrogate: 1,2-Dinitrobenzene	*83.6%*		*70-130*	*9/16/23 15:53*	*MER*	*EPA 8330B*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	9/6/23 16:33	BKP	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	9/6/23 16:33	BKP	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	9/6/23 16:33	BKP	EPA 8260D	
1,1,2-Trichloroethane	ND	ug/L	0.500	9/6/23 16:33	BKP	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	9/6/23 16:33	BKP	EPA 8260D	
1,1-Dichloroethene	ND	ug/L	0.500	9/6/23 16:33	BKP	EPA 8260D	
1,1-dichloropropene	ND	ug/L	0.500	9/6/23 16:33	BKP	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	9/6/23 16:33	BKP	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	9/6/23 16:33	BKP	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	9/6/23 16:33	BKP	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	9/6/23 16:33	BKP	EPA 8260D	
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.500	9/6/23 16:33	BKP	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	ug/L	0.500	9/6/23 16:33	BKP	EPA 8260D	
1,2-Dichlorobenzene	ND	ug/L	0.500	9/6/23 16:33	BKP	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	9/6/23 16:33	BKP	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	9/6/23 16:33	BKP	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	9/6/23 16:33	BKP	EPA 8260D	
1,3-Dichlorobenzene	ND	ug/L	0.500	9/6/23 16:33	BKP	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	9/6/23 16:33	BKP	EPA 8260D	
1,4-Dichlorobenzene	ND	ug/L	0.500	9/6/23 16:33	BKP	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	9/6/23 16:33	BKP	EPA 8260D	
2-Chlorotoluene	ND	ug/L	0.500	9/6/23 16:33	BKP	EPA 8260D	
2-hexanone	ND	ug/L	2.50	9/6/23 16:33	BKP	EPA 8260D	
4-Chlorotoluene	ND	ug/L	0.500	9/6/23 16:33	BKP	EPA 8260D	
Acetone	ND	ug/L	2.50	9/6/23 16:33	BKP	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	9/6/23 16:33	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: 03Q23LCMW01SW
Lab/Sample Number: MDI0036-02 Collect Date: 08/29/23 12:45
Date Received: 08/30/23 12:24 Collected By:
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Benzene	ND	ug/L	0.500	9/6/23 16:33	BKP	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	9/6/23 16:33	BKP	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	9/6/23 16:33	BKP	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	9/6/23 16:33	BKP	EPA 8260D	
Bromoform	ND	ug/L	0.500	9/6/23 16:33	BKP	EPA 8260D	
Bromomethane	ND	ug/L	0.500	9/6/23 16:33	BKP	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	9/6/23 16:33	BKP	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	9/6/23 16:33	BKP	EPA 8260D	
Chlorobenzene	ND	ug/L	0.500	9/6/23 16:33	BKP	EPA 8260D	
Chloroethane	ND	ug/L	0.500	9/6/23 16:33	BKP	EPA 8260D	
Chloroform	ND	ug/L	0.500	9/6/23 16:33	BKP	EPA 8260D	
Chloromethane	ND	ug/L	0.500	9/6/23 16:33	BKP	EPA 8260D	
cis-1,2-dichloroethene	ND	ug/L	0.500	9/6/23 16:33	BKP	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	9/6/23 16:33	BKP	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	9/6/23 16:33	BKP	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	9/6/23 16:33	BKP	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	9/6/23 16:33	BKP	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	9/6/23 16:33	BKP	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	9/6/23 16:33	BKP	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	9/6/23 16:33	BKP	EPA 8260D	
m+p-Xylene	ND	ug/L	0.500	9/6/23 16:33	BKP	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	9/6/23 16:33	BKP	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	9/6/23 16:33	BKP	EPA 8260D	
Methylene chloride	ND	ug/L	2.50	9/6/23 16:33	BKP	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	9/6/23 16:33	BKP	EPA 8260D	
Naphthalene	ND	ug/L	0.500	9/6/23 16:33	BKP	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	9/6/23 16:33	BKP	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	9/6/23 16:33	BKP	EPA 8260D	
o-Xylene	ND	ug/L	0.500	9/6/23 16:33	BKP	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	9/6/23 16:33	BKP	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	9/6/23 16:33	BKP	EPA 8260D	
Styrene	ND	ug/L	0.500	9/6/23 16:33	BKP	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	9/6/23 16:33	BKP	EPA 8260D	
Tetrachloroethene	ND	ug/L	0.500	9/6/23 16:33	BKP	EPA 8260D	
Toluene	ND	ug/L	0.500	9/6/23 16:33	BKP	EPA 8260D	
trans-1,2-Dichloroethene	ND	ug/L	0.500	9/6/23 16:33	BKP	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	9/6/23 16:33	BKP	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	9/6/23 16:33	BKP	EPA 8260D	
Trichlorofluoromethane	ND	ug/L	0.500	9/6/23 16:33	BKP	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	9/6/23 16:33	BKP	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*100%*		*70-130*	*9/6/23 16:33*	*BKP*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*92.5%*		*70-130*	*9/6/23 16:33*	*BKP*	*EPA 8260D*	
Surrogate: Toluene-d8	*98.0%*		*70-130*	*9/6/23 16:33*	*BKP*	*EPA 8260D*	

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Analytical Results Report

(Continued)

Sample Location:	03Q23LCMW01SW		
Lab/Sample Number:	MDI0036-02	Collect Date:	08/29/23 12:45
Date Received:	08/30/23 12:24	Collected By:	
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							

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Analytical Results Report

(Continued)

Sample Location: 03Q23LCMW14DW
Lab/Sample Number: MDI0036-03 Collect Date: 08/29/23 12:45
Date Received: 08/30/23 12:24 Collected By:
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Perchlorate	ND	ug/L	0.500	8/31/23 19:51	GPB	EPA 6850	
Semivolatiles							
1,3,5-TNB	ND	ug/L	0.500	9/16/23 16:31	MER	EPA 8330B	
1,3-Dinitrobenzene	ND	ug/L	0.500	9/16/23 16:31	MER	EPA 8330B	
2,4,6-Trinitrotoluene	ND	ug/L	0.100	9/16/23 16:31	MER	EPA 8330B	
2,4-Dinitrotoluene	ND	ug/L	0.100	9/16/23 16:31	MER	EPA 8330B	
2,6-DNT	ND	ug/L	0.500	9/16/23 16:31	MER	EPA 8330B	
2-Amino-4,6-dinitrotoluene	ND	ug/L	0.500	9/16/23 16:31	MER	EPA 8330B	
2-Nitrotoluene	ND	ug/L	0.500	9/16/23 16:31	MER	EPA 8330B	
3-Nitrotoluene	ND	ug/L	0.500	9/16/23 16:31	MER	EPA 8330B	
4-Amino-2,6-dinitrotoluene	ND	ug/L	0.500	9/16/23 16:31	MER	EPA 8330B	
4-Nitrotoluene	ND	ug/L	0.500	9/16/23 16:31	MER	EPA 8330B	
HMX	ND	ug/L	0.100	9/16/23 16:31	MER	EPA 8330B	
NB	ND	ug/L	0.500	9/16/23 16:31	MER	EPA 8330B	
RDX	ND	ug/L	0.100	9/16/23 16:31	MER	EPA 8330B	
Tetryl	ND	ug/L	0.500	9/16/23 16:31	MER	EPA 8330B	
Surrogate: 1,2-Dinitrobenzene	*79.5%*		*70-130*	*9/16/23 16:31*	*MER*	*EPA 8330B*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	9/6/23 17:05	BKP	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	9/6/23 17:05	BKP	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	9/6/23 17:05	BKP	EPA 8260D	
1,1,2-Trichloroethane	ND	ug/L	0.500	9/6/23 17:05	BKP	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	9/6/23 17:05	BKP	EPA 8260D	
1,1-Dichloroethene	ND	ug/L	0.500	9/6/23 17:05	BKP	EPA 8260D	
1,1-dichloropropene	ND	ug/L	0.500	9/6/23 17:05	BKP	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	9/6/23 17:05	BKP	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	9/6/23 17:05	BKP	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	9/6/23 17:05	BKP	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	9/6/23 17:05	BKP	EPA 8260D	
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.500	9/6/23 17:05	BKP	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	ug/L	0.500	9/6/23 17:05	BKP	EPA 8260D	
1,2-Dichlorobenzene	ND	ug/L	0.500	9/6/23 17:05	BKP	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	9/6/23 17:05	BKP	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	9/6/23 17:05	BKP	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	9/6/23 17:05	BKP	EPA 8260D	
1,3-Dichlorobenzene	ND	ug/L	0.500	9/6/23 17:05	BKP	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	9/6/23 17:05	BKP	EPA 8260D	
1,4-Dichlorobenzene	ND	ug/L	0.500	9/6/23 17:05	BKP	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	9/6/23 17:05	BKP	EPA 8260D	
2-Chlorotoluene	ND	ug/L	0.500	9/6/23 17:05	BKP	EPA 8260D	
2-hexanone	ND	ug/L	2.50	9/6/23 17:05	BKP	EPA 8260D	
4-Chlorotoluene	ND	ug/L	0.500	9/6/23 17:05	BKP	EPA 8260D	
Acetone	ND	ug/L	2.50	9/6/23 17:05	BKP	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	9/6/23 17:05	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location:	03Q23LCMW14DW		
Lab/Sample Number:	MDI0036-03	Collect Date:	08/29/23 12:45
Date Received:	08/30/23 12:24	Collected By:	
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Benzene	ND	ug/L	0.500	9/6/23 17:05	BKP	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	9/6/23 17:05	BKP	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	9/6/23 17:05	BKP	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	9/6/23 17:05	BKP	EPA 8260D	
Bromoform	ND	ug/L	0.500	9/6/23 17:05	BKP	EPA 8260D	
Bromomethane	ND	ug/L	0.500	9/6/23 17:05	BKP	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	9/6/23 17:05	BKP	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	9/6/23 17:05	BKP	EPA 8260D	
Chlorobenzene	ND	ug/L	0.500	9/6/23 17:05	BKP	EPA 8260D	
Chloroethane	ND	ug/L	0.500	9/6/23 17:05	BKP	EPA 8260D	
Chloroform	ND	ug/L	0.500	9/6/23 17:05	BKP	EPA 8260D	
Chloromethane	ND	ug/L	0.500	9/6/23 17:05	BKP	EPA 8260D	
cis-1,2-dichloroethene	ND	ug/L	0.500	9/6/23 17:05	BKP	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	9/6/23 17:05	BKP	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	9/6/23 17:05	BKP	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	9/6/23 17:05	BKP	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	9/6/23 17:05	BKP	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	9/6/23 17:05	BKP	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	9/6/23 17:05	BKP	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	9/6/23 17:05	BKP	EPA 8260D	
m+p-Xylene	ND	ug/L	0.500	9/6/23 17:05	BKP	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	9/6/23 17:05	BKP	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	9/6/23 17:05	BKP	EPA 8260D	
Methylene chloride	ND	ug/L	2.50	9/6/23 17:05	BKP	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	9/6/23 17:05	BKP	EPA 8260D	
Naphthalene	ND	ug/L	0.500	9/6/23 17:05	BKP	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	9/6/23 17:05	BKP	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	9/6/23 17:05	BKP	EPA 8260D	
o-Xylene	ND	ug/L	0.500	9/6/23 17:05	BKP	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	9/6/23 17:05	BKP	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	9/6/23 17:05	BKP	EPA 8260D	
Styrene	ND	ug/L	0.500	9/6/23 17:05	BKP	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	9/6/23 17:05	BKP	EPA 8260D	
Tetrachloroethene	ND	ug/L	0.500	9/6/23 17:05	BKP	EPA 8260D	
Toluene	ND	ug/L	0.500	9/6/23 17:05	BKP	EPA 8260D	
trans-1,2-Dichloroethene	ND	ug/L	0.500	9/6/23 17:05	BKP	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	9/6/23 17:05	BKP	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	9/6/23 17:05	BKP	EPA 8260D	
Trichlorofluoromethane	ND	ug/L	0.500	9/6/23 17:05	BKP	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	9/6/23 17:05	BKP	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*100%*		*70-130*	*9/6/23 17:05*	*BKP*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*99.1%*		*70-130*	*9/6/23 17:05*	*BKP*	*EPA 8260D*	
Surrogate: Toluene-d8	*98.1%*		*70-130*	*9/6/23 17:05*	*BKP*	*EPA 8260D*	

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Analytical Results Report

(Continued)

Sample Location:	03Q23LCMW14DW		
Lab/Sample Number:	MDI0036-03	Collect Date:	08/29/23 12:45
Date Received:	08/30/23 12:24	Collected By:	
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							

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Analytical Results Report

(Continued)

Sample Location:	082923TB		
Lab/Sample Number:	MDI0036-04	Collect Date:	08/29/23 00:00
Date Received:	08/30/23 12:24	Collected By:	
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	9/6/23 14:23	BKP	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	9/6/23 14:23	BKP	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	9/6/23 14:23	BKP	EPA 8260D	
1,1,2-Trichloroethane	ND	ug/L	0.500	9/6/23 14:23	BKP	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	9/6/23 14:23	BKP	EPA 8260D	
1,1-Dichloroethene	ND	ug/L	0.500	9/6/23 14:23	BKP	EPA 8260D	
1,1-dichloropropene	ND	ug/L	0.500	9/6/23 14:23	BKP	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	9/6/23 14:23	BKP	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	9/6/23 14:23	BKP	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	9/6/23 14:23	BKP	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	9/6/23 14:23	BKP	EPA 8260D	
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.500	9/6/23 14:23	BKP	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	ug/L	0.200	9/6/23 14:23	BKP	EPA 8260D	
1,2-Dichlorobenzene	ND	ug/L	0.500	9/6/23 14:23	BKP	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	9/6/23 14:23	BKP	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	9/6/23 14:23	BKP	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	9/6/23 14:23	BKP	EPA 8260D	
1,3-Dichlorobenzene	ND	ug/L	0.500	9/6/23 14:23	BKP	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	9/6/23 14:23	BKP	EPA 8260D	
1,4-Dichlorobenzene	ND	ug/L	0.500	9/6/23 14:23	BKP	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	9/6/23 14:23	BKP	EPA 8260D	
2-Chloroethyl vinyl ether	ND	ug/L	2.50	9/6/23 14:23	BKP	EPA 8260D	
2-Chlorotoluene	ND	ug/L	0.500	9/6/23 14:23	BKP	EPA 8260D	
2-hexanone	ND	ug/L	2.50	9/6/23 14:23	BKP	EPA 8260D	
4-Chlorotoluene	ND	ug/L	0.500	9/6/23 14:23	BKP	EPA 8260D	
Acetone	2.62	ug/L	2.50	9/6/23 14:23	BKP	EPA 8260D	
Acrolein	ND	ug/L	2.50	9/6/23 14:23	BKP	EPA 8260D	
Acrylonitrile	ND	ug/L	2.50	9/6/23 14:23	BKP	EPA 8260D	
Benzene	ND	ug/L	0.200	9/6/23 14:23	BKP	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	9/6/23 14:23	BKP	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	9/6/23 14:23	BKP	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.200	9/6/23 14:23	BKP	EPA 8260D	
Bromoform	ND	ug/L	0.500	9/6/23 14:23	BKP	EPA 8260D	
Bromomethane	ND	ug/L	0.500	9/6/23 14:23	BKP	EPA 8260D	
Carbon disulfide	ND	ug/L	2.50	9/6/23 14:23	BKP	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.200	9/6/23 14:23	BKP	EPA 8260D	
Chlorobenzene	ND	ug/L	0.500	9/6/23 14:23	BKP	EPA 8260D	
Chloroethane	ND	ug/L	0.500	9/6/23 14:23	BKP	EPA 8260D	
Chloroform	ND	ug/L	0.200	9/6/23 14:23	BKP	EPA 8260D	
Chloromethane	ND	ug/L	0.500	9/6/23 14:23	BKP	EPA 8260D	
cis-1,2-dichloroethene	ND	ug/L	0.500	9/6/23 14:23	BKP	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.200	9/6/23 14:23	BKP	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	9/6/23 14:23	BKP	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	9/6/23 14:23	BKP	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	9/6/23 14:23	BKP	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	9/6/23 14:23	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location:	082923TB		
Lab/Sample Number:	MDI0036-04	Collect Date:	08/29/23 00:00
Date Received:	08/30/23 12:24	Collected By:	
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Hexachlorobutadiene	ND	ug/L	0.500	9/6/23 14:23	BKP	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	9/6/23 14:23	BKP	EPA 8260D	
m+p-Xylene	ND	ug/L	1.00	9/6/23 14:23	BKP	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	9/6/23 14:23	BKP	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	9/6/23 14:23	BKP	EPA 8260D	
Methylene chloride	ND	ug/L	0.500	9/6/23 14:23	BKP	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	9/6/23 14:23	BKP	EPA 8260D	
Naphthalene	ND	ug/L	0.500	9/6/23 14:23	BKP	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	9/6/23 14:23	BKP	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	9/6/23 14:23	BKP	EPA 8260D	
o-Xylene	ND	ug/L	0.500	9/6/23 14:23	BKP	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	9/6/23 14:23	BKP	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	9/6/23 14:23	BKP	EPA 8260D	
Styrene	ND	ug/L	0.500	9/6/23 14:23	BKP	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	9/6/23 14:23	BKP	EPA 8260D	
Tetrachloroethene	ND	ug/L	0.500	9/6/23 14:23	BKP	EPA 8260D	
Toluene	ND	ug/L	0.500	9/6/23 14:23	BKP	EPA 8260D	
trans-1,2-Dichloroethene	ND	ug/L	0.500	9/6/23 14:23	BKP	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.200	9/6/23 14:23	BKP	EPA 8260D	
trans-1-4-Dichloro-2-butene	ND	ug/L	0.500	9/6/23 14:23	BKP	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	9/6/23 14:23	BKP	EPA 8260D	
Trichlorofluoromethane	ND	ug/L	0.500	9/6/23 14:23	BKP	EPA 8260D	
Vinyl acetate	ND	ug/L	0.500	9/6/23 14:23	BKP	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.200	9/6/23 14:23	BKP	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*100%*		*70-130*	*9/6/23 14:23*	*BKP*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*92.2%*		*70-130*	*9/6/23 14:23*	*BKP*	*EPA 8260D*	
Surrogate: Toluene-d8	*98.2%*		*70-130*	*9/6/23 14:23*	*BKP*	*EPA 8260D*	

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Analytical Results Report

(Continued)

Sample Location:	03Q23LC15SW		
Lab/Sample Number:	MDI0036-05	Collect Date:	08/29/23 15:45
Date Received:	08/30/23 12:24	Collected By:	
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Semivolatiles							
RDX	ND	ug/L	0.100	9/16/23 17:09	MER	EPA 8330B	

Authorized Signature,

Justin Doty For Todd Taruscio, Laboratory Manager

L4	The associated blank spike recovery was below method acceptance limits. This analyte was not detected in the sample.
M1	Matrix spike recovery was high; the associated blank spike recovery was acceptable. Potential matrix effect
M12	Matrix spike recovery was low. Potential matrix effect.
M13	Matrix spike recovery was high due to a potential matrix effect.
PQL	Practical Quantitation Limit
ND	Not Detected
MCL	EPA's Maximum Contaminant Level
Dry	Sample results reported on a dry weight basis
*	Not a state-certified analyte

RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was spiked or duplicated.

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Certifications

Code	Description	Facility	Number
DOE WA	Washington Department of Ecology	Anatek-Moscow, ID	C595

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Quality Control Data

Inorganics

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDH1230 - Perchlorate										
Matrix Spike (BDH1230-MS2)		**Source: MDI0036-01**			Prepared: 8/31/2023 Analyzed: 9/15/2023					
Perchlorate	1.25	M13	0.500	ug/L	1.00	ND	125	80-120		
Matrix Spike Dup (BDH1230-MSD2)		**Source: MDI0036-01**			Prepared: 8/31/2023 Analyzed: 9/15/2023					
Perchlorate	1.14		0.500	ug/L	1.00	ND	114	80-120	9.21	20

Quality Control Data

Semivolatiles

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0064 - Explosives										
Blank (BDI0064-BLK1)					Prepared: 9/5/2023 Analyzed: 9/15/2023					
HMX	ND		0.100	ug/L						
RDX	ND		0.100	ug/L						
1,3,5-TNB	ND		0.500	ug/L						
1,3-Dinitrobenzene	ND		0.500	ug/L						
NB	ND		0.500	ug/L						
2,4,6-Trinitrotoluene	ND		0.100	ug/L						
Tetryl	ND		0.500	ug/L						
2,6-DNT	ND		0.500	ug/L						
2,4-Dinitrotoluene	ND		0.100	ug/L						
2-Nitrotoluene	ND		0.500	ug/L						
4-Nitrotoluene	ND		0.500	ug/L						
4-Amino-2,6-dinitrotoluene	ND		0.500	ug/L						
3-Nitrotoluene	ND		0.500	ug/L						
2-Amino-4,6-dinitrotoluene	ND		0.500	ug/L						
Surrogate: 1,2-Dinitrobenzene			*8.14*	*ug/L*	*10.0*		*81.4*	*70-130*		
Blank (BDI0064-BLK2)					Prepared: 9/5/2023 Analyzed: 9/15/2023					
HMX	ND		0.100	ug/L						
RDX	ND		0.100	ug/L						
1,3,5-TNB	ND		0.500	ug/L						
1,3-Dinitrobenzene	ND		0.500	ug/L						
NB	ND		0.500	ug/L						
2,4,6-Trinitrotoluene	ND		0.100	ug/L						
Tetryl	ND		0.500	ug/L						
2,6-DNT	ND		0.500	ug/L						
2,4-Dinitrotoluene	ND		0.100	ug/L						
2-Nitrotoluene	ND		0.500	ug/L						
4-Nitrotoluene	ND		0.500	ug/L						
4-Amino-2,6-dinitrotoluene	ND		0.500	ug/L						
3-Nitrotoluene	ND		0.500	ug/L						
2-Amino-4,6-dinitrotoluene	ND		0.500	ug/L						
Surrogate: 1,2-Dinitrobenzene			*8.13*	*ug/L*	*10.0*		*81.3*	*70-130*		

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Quality Control Data
(Continued)

Semivolatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0064 - Explosives (Continued)										
Blank (BDI0064-BLK3)					Prepared: 9/5/2023 Analyzed: 9/16/2023					
HMX	ND		0.100	ug/L						
RDX	ND		0.100	ug/L						
1,3,5-TNB	ND		0.500	ug/L						
1,3-Dinitrobenzene	ND		0.500	ug/L						
NB	ND		0.500	ug/L						
2,4,6-Trinitrotoluene	ND		0.100	ug/L						
Tetryl	ND		0.500	ug/L						
2,6-DNT	ND		0.500	ug/L						
2,4-Dinitrotoluene	ND		0.100	ug/L						
2-Nitrotoluene	ND		0.500	ug/L						
4-Nitrotoluene	ND		0.500	ug/L						
4-Amino-2,6-dinitrotoluene	ND		0.500	ug/L						
3-Nitrotoluene	ND		0.500	ug/L						
2-Amino-4,6-dinitrotoluene	ND		0.500	ug/L						
Surrogate: 1,2-Dinitrobenzene			*8.06*	*ug/L*	*10.0*		*80.6*	*70-130*		
LCS (BDI0064-BS1)					Prepared: 9/5/2023 Analyzed: 9/15/2023					
HMX	4.57		0.100	ug/L	5.00		91.3	70-130		
RDX	4.67		0.100	ug/L	5.00		93.5	70-130		
1,3,5-TNB	4.22		0.500	ug/L	5.00		84.3	70-130		
1,3-Dinitrobenzene	4.24		0.500	ug/L	5.00		84.9	70-130		
NB	4.13		0.500	ug/L	5.00		82.6	70-130		
2,4,6-Trinitrotoluene	4.32		0.100	ug/L	5.00		86.3	70-130		
Tetryl	4.34		0.500	ug/L	5.00		86.7	70-130		
2,6-DNT	4.54		0.500	ug/L	5.00		90.8	70-130		
2,4-Dinitrotoluene	4.32		0.100	ug/L	5.00		86.3	70-130		
2-Nitrotoluene	4.77		0.500	ug/L	5.00		95.5	70-130		
4-Nitrotoluene	4.53		0.500	ug/L	5.00		90.5	70-130		
4-Amino-2,6-dinitrotoluene	4.93		0.500	ug/L	5.00		98.7	70-130		
3-Nitrotoluene	5.60		0.500	ug/L	5.00		112	70-130		
2-Amino-4,6-dinitrotoluene	4.76		0.500	ug/L	5.00		95.3	70-130		
Surrogate: 1,2-Dinitrobenzene		*L4*	*5.84*	*ug/L*	*10.0*		*58.4*	*70-130*		

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Quality Control Data
(Continued)

Semivolatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0064 - Explosives (Continued)										
LCS (BDI0064-BS2)					Prepared: 9/5/2023 Analyzed: 9/15/2023					
HMX	4.62		0.100	ug/L	5.00		92.4	70-130		
RDX	4.90		0.100	ug/L	5.00		98.0	70-130		
1,3,5-TNB	4.19		0.500	ug/L	5.00		83.9	70-130		
1,3-Dinitrobenzene	4.27		0.500	ug/L	5.00		85.4	70-130		
NB	4.17		0.500	ug/L	5.00		83.3	70-130		
2,4,6-Trinitrotoluene	4.32		0.100	ug/L	5.00		86.5	70-130		
Tetryl	4.46		0.500	ug/L	5.00		89.2	70-130		
2,6-DNT	4.49		0.500	ug/L	5.00		89.9	70-130		
2,4-Dinitrotoluene	4.30		0.100	ug/L	5.00		85.9	70-130		
2-Nitrotoluene	4.82		0.500	ug/L	5.00		96.3	70-130		
4-Nitrotoluene	3.76		0.500	ug/L	5.00		75.1	70-130		
4-Amino-2,6-dinitrotoluene	4.24		0.500	ug/L	5.00		84.9	70-130		
3-Nitrotoluene	4.25		0.500	ug/L	5.00		85.0	70-130		
2-Amino-4,6-dinitrotoluene	4.27		0.500	ug/L	5.00		85.5	70-130		
Surrogate: 1,2-Dinitrobenzene		*L4*	*6.78*	*ug/L*	*10.0*		*67.8*	*70-130*		
LCS (BDI0064-BS3)					Prepared: 9/5/2023 Analyzed: 9/16/2023					
HMX	5.58		0.100	ug/L	5.00		112	70-130		
RDX	5.70		0.100	ug/L	5.00		114	70-130		
1,3,5-TNB	5.54		0.500	ug/L	5.00		111	70-130		
1,3-Dinitrobenzene	4.96		0.500	ug/L	5.00		99.1	70-130		
NB	4.73		0.500	ug/L	5.00		94.5	70-130		
2,4,6-Trinitrotoluene	5.68		0.100	ug/L	5.00		114	70-130		
Tetryl	4.04		0.500	ug/L	5.00		80.8	70-130		
2,6-DNT	4.66		0.500	ug/L	5.00		93.2	70-130		
2,4-Dinitrotoluene	4.91		0.100	ug/L	5.00		98.2	70-130		
2-Nitrotoluene	4.68		0.500	ug/L	5.00		93.6	70-130		
4-Nitrotoluene	3.60		0.500	ug/L	5.00		72.1	70-130		
4-Amino-2,6-dinitrotoluene	4.65		0.500	ug/L	5.00		93.1	70-130		
3-Nitrotoluene	4.66		0.500	ug/L	5.00		93.3	70-130		
2-Amino-4,6-dinitrotoluene	4.57		0.500	ug/L	5.00		91.3	70-130		
Surrogate: 1,2-Dinitrobenzene		*L4*	*6.76*	*ug/L*	*10.0*		*67.6*	*70-130*		

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Quality Control Data
(Continued)

Semivolatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0064 - Explosives (Continued)										
LCS Dup (BDI0064-BSD1)					Prepared: 9/5/2023 Analyzed: 9/15/2023					
HMX	4.71		0.100	ug/L	5.00		94.3	70-130	3.19	25
RDX	4.74		0.100	ug/L	5.00		94.8	70-130	1.46	25
1,3,5-TNB	4.38		0.500	ug/L	5.00		87.7	70-130	3.87	25
1,3-Dinitrobenzene	4.35		0.500	ug/L	5.00		87.0	70-130	2.56	25
NB	4.26		0.500	ug/L	5.00		85.2	70-130	3.17	25
2,4,6-Trinitrotoluene	4.43		0.100	ug/L	5.00		88.6	70-130	2.59	25
Tetryl	4.46		0.500	ug/L	5.00		89.2	70-130	2.76	25
2,6-DNT	4.42		0.500	ug/L	5.00		88.4	70-130	2.67	25
2,4-Dinitrotoluene	4.42		0.100	ug/L	5.00		88.3	70-130	2.33	25
2-Nitrotoluene	4.81		0.500	ug/L	5.00		96.3	70-130	0.811	25
4-Nitrotoluene	3.81		0.500	ug/L	5.00		76.2	70-130	17.2	25
4-Amino-2,6-dinitrotoluene	4.43		0.500	ug/L	5.00		88.6	70-130	10.8	25
3-Nitrotoluene	4.49		0.500	ug/L	5.00		89.9	70-130	21.9	25
2-Amino-4,6-dinitrotoluene	4.52		0.500	ug/L	5.00		90.4	70-130	5.31	25
Surrogate: 1,2-Dinitrobenzene		*L4*	*6.76*	*ug/L*	*10.0*		*67.6*	*70-130*		
LCS Dup (BDI0064-BSD2)					Prepared: 9/5/2023 Analyzed: 9/15/2023					
HMX	4.77		0.100	ug/L	5.00		95.4	70-130	3.18	25
RDX	5.04		0.100	ug/L	5.00		101	70-130	2.78	25
1,3,5-TNB	4.37		0.500	ug/L	5.00		87.4	70-130	4.17	25
1,3-Dinitrobenzene	4.48		0.500	ug/L	5.00		89.6	70-130	4.73	25
NB	4.73		0.500	ug/L	5.00		94.7	70-130	12.8	25
2,4,6-Trinitrotoluene	4.45		0.100	ug/L	5.00		88.9	70-130	2.79	25
Tetryl	4.30		0.500	ug/L	5.00		86.0	70-130	3.63	25
2,6-DNT	4.42		0.500	ug/L	5.00		88.5	70-130	1.57	25
2,4-Dinitrotoluene	4.44		0.100	ug/L	5.00		88.9	70-130	3.35	25
2-Nitrotoluene	4.79		0.500	ug/L	5.00		95.8	70-130	0.554	25
4-Nitrotoluene	3.75		0.500	ug/L	5.00		75.0	70-130	0.208	25
4-Amino-2,6-dinitrotoluene	4.15		0.500	ug/L	5.00		83.1	70-130	2.14	25
3-Nitrotoluene	4.16		0.500	ug/L	5.00		83.2	70-130	2.14	25
2-Amino-4,6-dinitrotoluene	4.56		0.500	ug/L	5.00		91.1	70-130	6.40	25
Surrogate: 1,2-Dinitrobenzene		*L4*	*5.94*	*ug/L*	*10.0*		*59.4*	*70-130*		

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Quality Control Data
(Continued)

Semivolatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0064 - Explosives (Continued)										
LCS Dup (BDI0064-BSD3)					Prepared: 9/5/2023 Analyzed: 9/16/2023					
HMX	5.16		0.100	ug/L	5.00		103	70-130	7.83	25
RDX	5.56		0.100	ug/L	5.00		111	70-130	2.50	25
1,3,5-TNB	5.39		0.500	ug/L	5.00		108	70-130	2.90	25
1,3-Dinitrobenzene	4.69		0.500	ug/L	5.00		93.7	70-130	5.64	25
NB	4.37		0.500	ug/L	5.00		87.4	70-130	7.89	25
2,4,6-Trinitrotoluene	5.51		0.100	ug/L	5.00		110	70-130	3.02	25
Tetryl	4.11		0.500	ug/L	5.00		82.3	70-130	1.84	25
2,6-DNT	4.66		0.500	ug/L	5.00		93.1	70-130	0.0833	25
2,4-Dinitrotoluene	4.70		0.100	ug/L	5.00		93.9	70-130	4.43	25
2-Nitrotoluene	4.58		0.500	ug/L	5.00		91.6	70-130	2.14	25
4-Nitrotoluene	3.63		0.500	ug/L	5.00		72.7	70-130	0.803	25
4-Amino-2,6-dinitrotoluene	4.64		0.500	ug/L	5.00		92.8	70-130	0.291	25
3-Nitrotoluene	4.65		0.500	ug/L	5.00		93.0	70-130	0.291	25
2-Amino-4,6-dinitrotoluene	4.30		0.500	ug/L	5.00		86.1	70-130	5.91	25
Surrogate: 1,2-Dinitrobenzene		*L4*	*5.82*	*ug/L*	*10.0*		*58.2*	*70-130*		
Matrix Spike (BDI0064-MS1)		**Source: MDI0021-01**			Prepared: 9/5/2023 Analyzed: 9/15/2023					
HMX	4.42		0.100	ug/L	5.00	ND	88.5	70-130		
RDX	4.64		0.100	ug/L	5.00	ND	92.8	70-130		
1,3,5-TNB	4.07		0.500	ug/L	5.00	ND	81.5	70-130		
1,3-Dinitrobenzene	4.18		0.500	ug/L	5.00	ND	83.6	70-130		
NB	4.01		0.500	ug/L	5.00	ND	80.1	70-130		
2,4,6-Trinitrotoluene	4.19		0.100	ug/L	5.00	ND	83.7	70-130		
Tetryl	4.37		0.500	ug/L	5.00	ND	87.5	70-130		
2,6-DNT	4.45		0.500	ug/L	5.00	ND	89.1	70-130		
2,4-Dinitrotoluene	4.19		0.100	ug/L	5.00	ND	83.9	70-130		
2-Nitrotoluene	4.72		0.500	ug/L	5.00	ND	94.4	70-130		
4-Nitrotoluene	3.90		0.500	ug/L	5.00	ND	77.9	70-130		
4-Amino-2,6-dinitrotoluene	4.25		0.500	ug/L	5.00	ND	85.0	70-130		
3-Nitrotoluene	4.64		0.500	ug/L	5.00	ND	92.8	70-130		
2-Amino-4,6-dinitrotoluene	4.35		0.500	ug/L	5.00	ND	86.9	70-130		
Surrogate: 1,2-Dinitrobenzene			*7.62*	*ug/L*	*10.0*		*76.2*	*70-130*		

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Quality Control Data
(Continued)

Semivolatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0064 - Explosives (Continued)										
Matrix Spike (BDI0064-MS2)		**Source: MDI0024-01**			Prepared: 9/5/2023 Analyzed: 9/15/2023					
HMX	6.53		0.100	ug/L	5.00	1.65	97.6	70-130		
RDX	8.84		0.100	ug/L	5.00	3.83	100	70-130		
1,3,5-TNB	4.40		0.500	ug/L	5.00	ND	87.9	70-130		
1,3-Dinitrobenzene	4.50		0.500	ug/L	5.00	ND	89.9	70-130		
NB	4.56		0.500	ug/L	5.00	ND	91.1	70-130		
2,4,6-Trinitrotoluene	4.51		0.100	ug/L	5.00	ND	90.3	70-130		
Tetryl	4.58		0.500	ug/L	5.00	ND	91.6	70-130		
2,6-DNT	4.67		0.500	ug/L	5.00	ND	93.5	70-130		
2,4-Dinitrotoluene	4.53		0.100	ug/L	5.00	ND	90.5	70-130		
2-Nitrotoluene	5.06		0.500	ug/L	5.00	ND	101	70-130		
4-Nitrotoluene	3.96		0.500	ug/L	5.00	ND	79.2	70-130		
4-Amino-2,6-dinitrotoluene	4.28		0.500	ug/L	5.00	ND	85.6	70-130		
3-Nitrotoluene	4.29		0.500	ug/L	5.00	ND	85.8	70-130		
2-Amino-4,6-dinitrotoluene	4.57		0.500	ug/L	5.00	ND	91.3	70-130		
Surrogate: 1,2-Dinitrobenzene			*8.06*	*ug/L*	*10.0*		*80.6*	*70-130*		
Matrix Spike (BDI0064-MS3)		**Source: MDI0025-01**			Prepared: 9/5/2023 Analyzed: 9/15/2023					
HMX	4.55		0.100	ug/L	5.00	ND	91.0	70-130		
RDX	4.87		0.100	ug/L	5.00	ND	97.3	70-130		
1,3,5-TNB	4.23		0.500	ug/L	5.00	ND	84.6	70-130		
1,3-Dinitrobenzene	4.22		0.500	ug/L	5.00	ND	84.3	70-130		
NB	4.12		0.500	ug/L	5.00	ND	82.4	70-130		
2,4,6-Trinitrotoluene	4.27		0.100	ug/L	5.00	ND	85.5	70-130		
Tetryl	4.23		0.500	ug/L	5.00	ND	84.6	70-130		
2,6-DNT	4.35		0.500	ug/L	5.00	ND	87.0	70-130		
2,4-Dinitrotoluene	4.32		0.100	ug/L	5.00	ND	86.3	70-130		
2-Nitrotoluene	4.67		0.500	ug/L	5.00	ND	93.5	70-130		
4-Nitrotoluene	8.59	M1	0.500	ug/L	5.00	ND	172	70-130		
4-Amino-2,6-dinitrotoluene	5.08		0.500	ug/L	5.00	ND	102	70-130		
3-Nitrotoluene	5.09		0.500	ug/L	5.00	ND	102	70-130		
2-Amino-4,6-dinitrotoluene	4.73		0.500	ug/L	5.00	ND	94.6	70-130		
Surrogate: 1,2-Dinitrobenzene			*7.18*	*ug/L*	*10.0*		*71.8*	*70-130*		

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Quality Control Data
(Continued)

Semivolatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0064 - Explosives (Continued)										
Matrix Spike (BDI0064-MS4)		**Source: MDI0036-01**			Prepared: 9/5/2023 Analyzed: 9/16/2023					
HMX	5.38		0.100	ug/L	5.00	ND	108	70-130		
RDX	5.79		0.100	ug/L	5.00	ND	116	70-130		
1,3,5-TNB	5.61		0.500	ug/L	5.00	ND	112	70-130		
1,3-Dinitrobenzene	5.04		0.500	ug/L	5.00	ND	101	70-130		
NB	4.76		0.500	ug/L	5.00	ND	95.2	70-130		
2,4,6-Trinitrotoluene	5.67		0.100	ug/L	5.00	ND	113	70-130		
Tetryl	4.08		0.500	ug/L	5.00	ND	81.6	70-130		
2,6-DNT	4.81		0.500	ug/L	5.00	ND	96.2	70-130		
2,4-Dinitrotoluene	5.00		0.100	ug/L	5.00	ND	100	70-130		
2-Nitrotoluene	4.70		0.500	ug/L	5.00	ND	94.0	70-130		
4-Nitrotoluene	3.50		0.500	ug/L	5.00	ND	70.0	70-130		
4-Amino-2,6-dinitrotoluene	4.55		0.500	ug/L	5.00	ND	91.1	70-130		
3-Nitrotoluene	4.56		0.500	ug/L	5.00	ND	91.2	70-130		
2-Amino-4,6-dinitrotoluene	4.23		0.500	ug/L	5.00	ND	84.7	70-130		
Surrogate: 1,2-Dinitrobenzene			*7.70*	*ug/L*	*10.0*		*77.0*	*70-130*		
Matrix Spike Dup (BDI0064-MSD1)		**Source: MDI0021-01**			Prepared: 9/5/2023 Analyzed: 9/15/2023					
HMX	4.54		0.100	ug/L	5.00	ND	90.8	70-130	2.62	25
RDX	4.76		0.100	ug/L	5.00	ND	95.3	70-130	2.59	25
1,3,5-TNB	4.23		0.500	ug/L	5.00	ND	84.6	70-130	3.76	25
1,3-Dinitrobenzene	4.26		0.500	ug/L	5.00	ND	85.2	70-130	1.95	25
NB	4.20		0.500	ug/L	5.00	ND	84.0	70-130	4.78	25
2,4,6-Trinitrotoluene	4.30		0.100	ug/L	5.00	ND	86.1	70-130	2.76	25
Tetryl	4.39		0.500	ug/L	5.00	ND	87.7	70-130	0.321	25
2,6-DNT	4.41		0.500	ug/L	5.00	ND	88.3	70-130	0.881	25
2,4-Dinitrotoluene	4.26		0.100	ug/L	5.00	ND	85.3	70-130	1.64	25
2-Nitrotoluene	4.76		0.500	ug/L	5.00	ND	95.3	70-130	0.915	25
4-Nitrotoluene	4.42		0.500	ug/L	5.00	ND	88.5	70-130	12.7	25
4-Amino-2,6-dinitrotoluene	4.50		0.500	ug/L	5.00	ND	90.0	70-130	5.73	25
3-Nitrotoluene	5.44		0.500	ug/L	5.00	ND	109	70-130	15.9	25
2-Amino-4,6-dinitrotoluene	4.45		0.500	ug/L	5.00	ND	88.9	70-130	2.29	25
Surrogate: 1,2-Dinitrobenzene			*8.15*	*ug/L*	*10.0*		*81.5*	*70-130*		

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Quality Control Data
(Continued)

Semivolatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0064 - Explosives (Continued)										
Matrix Spike Dup (BDI0064-MSD2)		**Source: MDI0024-01**			Prepared: 9/5/2023 Analyzed: 9/15/2023					
HMX	6.55		0.100	ug/L	5.00	1.65	98.0	70-130	0.299	25
RDX	8.88		0.100	ug/L	5.00	3.83	101	70-130	0.456	25
1,3,5-TNB	4.30		0.500	ug/L	5.00	ND	85.9	70-130	2.31	25
1,3-Dinitrobenzene	4.41		0.500	ug/L	5.00	ND	88.2	70-130	1.98	25
NB	4.37		0.500	ug/L	5.00	ND	87.4	70-130	4.15	25
2,4,6-Trinitrotoluene	4.45		0.100	ug/L	5.00	ND	89.1	70-130	1.32	25
Tetryl	4.79		0.500	ug/L	5.00	ND	95.8	70-130	4.52	25
2,6-DNT	4.58		0.500	ug/L	5.00	ND	91.6	70-130	2.03	25
2,4-Dinitrotoluene	4.44		0.100	ug/L	5.00	ND	88.7	70-130	2.00	25
2-Nitrotoluene	4.82		0.500	ug/L	5.00	ND	96.4	70-130	4.90	25
4-Nitrotoluene	4.54		0.500	ug/L	5.00	ND	90.9	70-130	13.8	25
4-Amino-2,6-dinitrotoluene	4.59		0.500	ug/L	5.00	ND	91.7	70-130	6.87	25
3-Nitrotoluene	4.60		0.500	ug/L	5.00	ND	91.9	70-130	6.87	25
2-Amino-4,6-dinitrotoluene	4.39		0.500	ug/L	5.00	ND	87.9	70-130	3.83	25
Surrogate: 1,2-Dinitrobenzene			*7.69*	*ug/L*	*10.0*		*76.9*	*70-130*		
Matrix Spike Dup (BDI0064-MSD3)		**Source: MDI0025-01**			Prepared: 9/5/2023 Analyzed: 9/15/2023					
HMX	4.49		0.100	ug/L	5.00	ND	89.9	70-130	1.17	25
RDX	4.88		0.100	ug/L	5.00	ND	97.7	70-130	0.385	25
1,3,5-TNB	4.18		0.500	ug/L	5.00	ND	83.6	70-130	1.23	25
1,3-Dinitrobenzene	4.20		0.500	ug/L	5.00	ND	84.0	70-130	0.363	25
NB	4.03		0.500	ug/L	5.00	ND	80.6	70-130	2.15	25
2,4,6-Trinitrotoluene	4.26		0.100	ug/L	5.00	ND	85.1	70-130	0.453	25
Tetryl	4.37		0.500	ug/L	5.00	ND	87.4	70-130	3.31	25
2,6-DNT	4.56		0.500	ug/L	5.00	ND	91.3	70-130	4.74	25
2,4-Dinitrotoluene	4.30		0.100	ug/L	5.00	ND	86.1	70-130	0.290	25
2-Nitrotoluene	4.90		0.500	ug/L	5.00	ND	98.0	70-130	4.72	25
4-Nitrotoluene	7.99	M1	0.500	ug/L	5.00	ND	160	70-130	7.30	25
4-Amino-2,6-dinitrotoluene	4.59		0.500	ug/L	5.00	ND	91.9	70-130	10.1	25
3-Nitrotoluene	4.60		0.500	ug/L	5.00	ND	92.1	70-130	10.1	25
2-Amino-4,6-dinitrotoluene	4.27		0.500	ug/L	5.00	ND	85.4	70-130	10.1	25
Surrogate: 1,2-Dinitrobenzene			*7.02*	*ug/L*	*10.0*		*70.2*	*70-130*		

Quality Control Data
(Continued)

Semivolatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0064 - Explosives (Continued)										
Matrix Spike Dup (BDI0064-MSD4)	**Source: MDI0036-01**				Prepared: 9/5/2023 Analyzed: 9/16/2023					
HMX	5.58		0.100	ug/L	5.00	ND	112	70-130	3.74	25
RDX	5.90		0.100	ug/L	5.00	ND	118	70-130	1.87	25
1,3,5-TNB	5.70		0.500	ug/L	5.00	ND	114	70-130	1.57	25
1,3-Dinitrobenzene	4.99		0.500	ug/L	5.00	ND	99.9	70-130	0.935	25
NB	4.53		0.500	ug/L	5.00	ND	90.5	70-130	4.97	25
2,4,6-Trinitrotoluene	5.80		0.100	ug/L	5.00	ND	116	70-130	2.21	25
Tetryl	4.05		0.500	ug/L	5.00	ND	81.0	70-130	0.763	25
2,6-DNT	4.65		0.500	ug/L	5.00	ND	93.0	70-130	3.40	25
2,4-Dinitrotoluene	4.98		0.100	ug/L	5.00	ND	99.6	70-130	0.456	25
2-Nitrotoluene	4.55		0.500	ug/L	5.00	ND	91.1	70-130	3.17	25
4-Nitrotoluene	3.36	M12	0.500	ug/L	5.00	ND	67.3	70-130	4.06	25
4-Amino-2,6-dinitrotoluene	4.68		0.500	ug/L	5.00	ND	93.5	70-130	2.69	25
3-Nitrotoluene	4.69		0.500	ug/L	5.00	ND	93.7	70-130	2.69	25
2-Amino-4,6-dinitrotoluene	4.24		0.500	ug/L	5.00	ND	84.8	70-130	0.131	25
Surrogate: 1,2-Dinitrobenzene			*7.97*	*ug/L*	*10.0*		*79.7*	*70-130*		

Quality Control Data
(Continued)

Volatiles

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0119 - VOC										
Blank (BDI0119-BLK1)					Prepared & Analyzed: 9/6/2023					
Chloromethane	ND		0.500	ug/L						
m/p Xylenes (MCL for total)	ND		0.500	ug/L						
Isopropylbenzene	ND		0.500	ug/L						
Hexachlorobutadiene	ND		0.500	ug/L						
Ethylbenzene	ND		0.500	ug/L						
Carbon Tetrachloride	ND		0.500	ug/L						
Dichlorodifluoromethane	ND		0.500	ug/L						
Dibromomethane	ND		0.500	ug/L						
Dibromochloromethane	ND		0.500	ug/L						
cis-1,2-Dichloroethylene	ND		0.500	ug/L						
Chloroform	ND		0.500	ug/L						
Chloroethane	ND		0.500	ug/L						
Chlorobenzene (Monochlorobenzene)	ND		0.500	ug/L						
Methyl ethyl ketone (MEK)	ND		2.50	ug/L						
Tetrachloroethylene	ND		0.500	ug/L						
cis-1,3-Dichloropropene	ND		0.500	ug/L						
sec-Butylbenzene	ND		0.500	ug/L						
Trichloroethene	ND		0.500	ug/L						
trans-1,3-Dichloropropene	ND		0.500	ug/L						
trans-1,2 Dichloroethylene	ND		0.500	ug/L						
Toluene	ND		0.500	ug/L						
2,2-Dichloropropane	ND		0.500	ug/L						
Styrene	ND		0.500	ug/L						
Carbon disulfide	ND		0.500	ug/L						
Methyl isobutyl ketone (MIBK)	ND		2.50	ug/L						

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Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0119 - VOC (Continued)										
Blank (BDI0119-BLK1)					Prepared & Analyzed: 9/6/2023					
p-isopropyltoluene	ND		0.500	ug/L						
o-Xylene (MCL for total)	ND		0.500	ug/L						
n-Propylbenzene	ND		0.500	ug/L						
n-Butylbenzene	ND		0.500	ug/L						
Naphthalene	ND		0.500	ug/L						
methyl-t-butyl ether (MTBE)	ND		0.500	ug/L						
Methylene Chloride (Dichloromethane)	ND		2.50	ug/L						
tert-Butylbenzene	ND		0.500	ug/L						
1,1-Dichloroethylene	ND		0.500	ug/L						
2-hexanone	ND		2.50	ug/L						
EDB (screening)	ND		0.500	ug/L						
DBCP (screening)	ND		0.500	ug/L						
1,2,4-Trimethylbenzene	ND		0.500	ug/L						
1,2,4-Trichlorobenzene	ND		0.500	ug/L						
1,2,3-Trichloropropane	ND		0.500	ug/L						
1,1-Dichloropropene	ND		0.500	ug/L						
1,2-Dichloroethane	ND		0.500	ug/L						
1,1-Dichloroethane	ND		0.500	ug/L						
1,1,2-Trichlorethane	ND		0.500	ug/L						
1,1,2,2-Tetrachloroethane	ND		0.500	ug/L						
1,1,1-Trichloroethane	ND		0.500	ug/L						
1,1,1,2-Tetrachloroethane	ND		0.500	ug/L						
Vinyl Chloride	ND		0.500	ug/L						
1,2,3-Trichlorobenzene	ND		0.500	ug/L						
Bromoform	ND		0.500	ug/L						
Bromodichloromethane	ND		0.500	ug/L						
Bromochloromethane	ND		0.500	ug/L						
Bromobenzene	ND		0.500	ug/L						
Benzene	ND		0.500	ug/L						
Acrylonitrile	ND		0.500	ug/L						
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	ND		0.500	ug/L						
p-Chlorotoluene	ND		0.500	ug/L						
Bromomethane	ND		0.500	ug/L						
o-Chlorotoluene	ND		0.500	ug/L						
1,4-Dichlorobenzene (para-Dichlorobenzene)	ND		0.500	ug/L						
1,3-Dichloropropane	ND		0.500	ug/L						
m-Dichlorobenzene	ND		0.500	ug/L						
1,3,5-Trimethylbenzene	ND		0.500	ug/L						
1,2-Dichloropropane	ND		0.500	ug/L						
Acetone	ND		2.50	ug/L						
Trichloroflouromethane	ND		0.500	ug/L						
Surrogate: Toluene-d8			*19.5*	*ug/L*	*20.0*		*97.6*	*70-130*		
Surrogate: 4-Bromofluorobenzene			*19.1*	*ug/L*	*20.0*		*95.3*	*70-130*		
Surrogate: 1,2-Dichlorobenzene-d4			*20.0*	*ug/L*	*20.0*		*100*	*70-130*		

Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0119 - VOC (Continued)										
LCS (BDI0119-BS1)					Prepared & Analyzed: 9/6/2023					
cis-1,3-Dichloropropene	8.98		0.500	ug/L	10.0		89.8	79-123		
Methyl ethyl ketone (MEK)	10.1		2.50	ug/L	10.0		101	55-154		
m/p Xylenes (MCL for total)	21.1		0.500	ug/L	20.0		105	80-120		
Isopropylbenzene	10.8		0.500	ug/L	10.0		108	80-120		
Hexachlorobutadiene	11.1		0.500	ug/L	10.0		111	80-120		
Ethylbenzene	10.7		0.500	ug/L	10.0		107	80-120		
Dichlorodifluoromethane	10.2		0.500	ug/L	10.0		102	57-130		
Carbon disulfide	10.9		0.500	ug/L	10.0		109	80-120		
Dibromochloromethane	9.73		0.500	ug/L	10.0		97.3	80-121		
n-Propylbenzene	11.5		0.500	ug/L	10.0		115	80-120		
cis-1,2-Dichloroethylene	9.95		0.500	ug/L	10.0		99.5	80-120		
Chloroform	10.8		0.500	ug/L	10.0		108	80-120		
Chloroethane	12.0		0.500	ug/L	10.0		120	78-120		
Chlorobenzene (Monochlorobenzene)	10.4		0.500	ug/L	10.0		104	80-120		
Carbon Tetrachloride	10.7		0.500	ug/L	10.0		107	80-120		
Dibromomethane	10.5		0.500	ug/L	10.0		105	80-120		
Tetrachloroethylene	10.4		0.500	ug/L	10.0		104	80-120		
Vinyl Chloride	11.2		0.500	ug/L	10.0		112	75-120		
Trichloroflouromethane	11.2		0.500	ug/L	10.0		112	61-140		
Trichloroethene	10.1		0.500	ug/L	10.0		101	80-120		
trans-1,3-Dichloropropene	9.12		0.500	ug/L	10.0		91.2	69-130		
trans-1,2 Dichloroethylene	10.7		0.500	ug/L	10.0		107	80-120		
methyl-t-butyl ether (MTBE)	8.82		0.500	ug/L	10.0		88.2	71-130		
Toluene	10.6		0.500	ug/L	10.0		106	80-120		
n-Butylbenzene	11.0		0.500	ug/L	10.0		110	74-122		
tert-Butylbenzene	11.1		0.500	ug/L	10.0		111	80-120		
Styrene	11.5		0.500	ug/L	10.0		115	80-120		
sec-Butylbenzene	11.6		0.500	ug/L	10.0		116	80-120		
p-isopropyltoluene	11.1		0.500	ug/L	10.0		111	80-120		
o-Xylene (MCL for total)	10.5		0.500	ug/L	10.0		105	80-120		
Methyl isobutyl ketone (MIBK)	8.97		2.50	ug/L	10.0		89.7	70-136		
1,1-Dichloropropene	11.3		0.500	ug/L	10.0		113	80-120		
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	10.1		0.500	ug/L	10.0		101	80-120		
EDB (screening)	10.2		0.500	ug/L	10.0		102	70-130		
DBCP (screening)	8.74		0.500	ug/L	10.0		87.4	71-128		
1,1,1-Trichloroethane	10.8		0.500	ug/L	10.0		108	80-120		
1,2,4-Trichlorobenzene	8.97		0.500	ug/L	10.0		89.7	80-120		
1,2-Dichloroethane	10.3		0.500	ug/L	10.0		103	80-120		
1,2,3-Trichlorobenzene	9.78		0.500	ug/L	10.0		97.8	78-120		
1,2,4-Trimethylbenzene	11.7		0.500	ug/L	10.0		117	80-120		
1,1-Dichloroethylene	10.4		0.500	ug/L	10.0		104	70-129		
1,1-Dichloroethane	10.5		0.500	ug/L	10.0		105	80-120		
1,1,2-Trichlorethane	10.5		0.500	ug/L	10.0		105	80-120		
1,1,2,2-Tetrachloroethane	10.6		0.500	ug/L	10.0		106	77-123		
Bromoform	9.45		0.500	ug/L	10.0		94.5	68-133		
Naphthalene	8.58		0.500	ug/L	10.0		85.8	66-133		
1,1,1,2-Tetrachloroethane	10.3		0.500	ug/L	10.0		103	80-120		
Bromobenzene	10.3		0.500	ug/L	10.0		103	80-120		
Bromodichloromethane	9.92		0.500	ug/L	10.0		99.2	80-120		
1,2,3-Trichloropropane	10.4		0.500	ug/L	10.0		104	80-120		

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Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0119 - VOC (Continued)										
LCS (BDI0119-BS1)					Prepared & Analyzed: 9/6/2023					
Bromochloromethane	10.5		0.500	ug/L	10.0		105	80-120		
Benzene	10.6		0.500	ug/L	10.0		106	80-120		
Acrylonitrile	10.1		0.500	ug/L	10.0		101	73-131		
p-Chlorotoluene	11.7		0.500	ug/L	10.0		117	80-124		
2-hexanone	8.57		2.50	ug/L	10.0		85.7	65-140		
2,2-Dichloropropane	9.50		0.500	ug/L	10.0		95.0	80-120		
1,4-Dichlorobenzene (para-Dichlorobenzene)	10.1		0.500	ug/L	10.0		101	80-120		
1,3-Dichloropropane	10.3		0.500	ug/L	10.0		103	80-120		
m-Dichlorobenzene	10.1		0.500	ug/L	10.0		101	80-120		
1,3,5-Trimethylbenzene	11.7		0.500	ug/L	10.0		117	80-121		
1,2-Dichloropropane	10.3		0.500	ug/L	10.0		103	80-120		
o-Chlorotoluene	11.5		0.500	ug/L	10.0		115	80-120		
Surrogate: Toluene-d8			*20.7*	*ug/L*	*20.0*		*103*	*70-130*		
Surrogate: 4-Bromofluorobenzene			*20.6*	*ug/L*	*20.0*		*103*	*70-130*		
Surrogate: 1,2-Dichlorobenzene-d4			*20.0*	*ug/L*	*20.0*		*100*	*70-130*		
Matrix Spike (BDI0119-MS1)	**Source: MDI0024-01**				Prepared & Analyzed: 9/6/2023					
cis-1,3-Dichloropropene	10.1		0.500	ug/L	10.0	ND	101	74-124		
methyl-t-butyl ether (MTBE)	9.77		0.500	ug/L	10.0	ND	97.7	57-138		
Methyl isobutyl ketone (MIBK)	11.0		2.50	ug/L	10.0	ND	110	53-167		
Methyl ethyl ketone (MEK)	10.5		2.50	ug/L	10.0	ND	105	47-165		
m/p Xylenes (MCL for total)	22.5		0.500	ug/L	20.0	ND	112	57-130		
Isopropylbenzene	11.4		0.500	ug/L	10.0	ND	114	70-130		
Hexachlorobutadiene	12.7		0.500	ug/L	10.0	ND	127	70-130		
Ethylbenzene	11.4		0.500	ug/L	10.0	ND	114	70-130		
Dichlorodifluoromethane	10.3		0.500	ug/L	10.0	ND	103	57-136		
Chloroform	11.8		0.500	ug/L	10.0	ND	118	70-130		
Dibromochloromethane	10.1		0.500	ug/L	10.0	ND	101	70-130		
cis-1,2-Dichloroethylene	11.2		0.500	ug/L	10.0	ND	112	70-130		
Chlorobenzene (Monochlorobenzene)	11.3		0.500	ug/L	10.0	ND	113	70-130		
Chloroethane	13.7		0.500	ug/L	10.0	ND	137	68-138		
Dibromomethane	11.7		0.500	ug/L	10.0	ND	117	70-130		
Tetrachloroethylene	11.0		0.500	ug/L	10.0	ND	110	70-130		
Carbon Tetrachloride	11.3		0.500	ug/L	10.0	ND	113	70-130		
Vinyl Chloride	11.8		0.500	ug/L	10.0	ND	118	70-130		
Trichloroethene	11.1		0.500	ug/L	10.0	ND	111	70-130		
trans-1,3-Dichloropropene	9.62		0.500	ug/L	10.0	ND	96.2	61-131		
trans-1,2 Dichloroethylene	11.5		0.500	ug/L	10.0	ND	115	70-130		
Trichloroflouromethane	11.4		0.500	ug/L	10.0	ND	114	50-154		
Toluene	11.8		0.500	ug/L	10.0	ND	118	70-130		
Naphthalene	10.8		0.500	ug/L	10.0	ND	108	56-147		
tert-Butylbenzene	11.7		0.500	ug/L	10.0	ND	117	70-130		
Styrene	12.2		0.500	ug/L	10.0	ND	122	30-130		
sec-Butylbenzene	12.2		0.500	ug/L	10.0	ND	122	70-130		
p-isopropyltoluene	11.8		0.500	ug/L	10.0	ND	118	70-130		
o-Xylene (MCL for total)	11.2		0.500	ug/L	10.0	ND	112	62-127		
n-Propylbenzene	12.1		0.500	ug/L	10.0	ND	121	70-130		
n-Butylbenzene	12.2		0.500	ug/L	10.0	ND	122	67-130		
1,1-Dichloroethylene	11.0		0.500	ug/L	10.0	ND	110	70-130		
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	11.5		0.500	ug/L	10.0	ND	115	70-130		

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Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0119 - VOC (Continued)										
Matrix Spike (BDI0119-MS1)	**Source: MDI0024-01**				Prepared & Analyzed: 9/6/2023					
EDB (screening)	10.9		0.500	ug/L	10.0	ND	109	70-130		
DBCP (screening)	10.5		0.500	ug/L	10.0	ND	105	55-146		
1,2,4-Trimethylbenzene	12.5		0.500	ug/L	10.0	ND	125	40-140		
1,1,1,2-Tetrachloroethane	10.8		0.500	ug/L	10.0	ND	108	70-130		
1,2-Dichloroethane	11.0		0.500	ug/L	10.0	ND	110	70-130		
1,1-Dichloropropene	12.1		0.500	ug/L	10.0	ND	121	70-130		
1,2,4-Trichlorobenzene	10.8		0.500	ug/L	10.0	ND	108	70-130		
1,1-Dichloroethane	11.4		0.500	ug/L	10.0	ND	114	70-130		
1,1,2-Trichlorethane	11.1		0.500	ug/L	10.0	ND	111	70-130		
1,1,2,2-Tetrachloroethane	11.7		0.500	ug/L	10.0	ND	117	67-136		
1,1,1-Trichloroethane	11.5		0.500	ug/L	10.0	ND	115	70-130		
Carbon disulfide	11.5		0.500	ug/L	10.0	ND	115	70-130		
1,2-Dichloropropane	11.4		0.500	ug/L	10.0	ND	114	70-130		
1,2,3-Trichloropropane	11.7		0.500	ug/L	10.0	ND	117	69-137		
Bromochloromethane	11.7		0.500	ug/L	10.0	ND	117	70-130		
Bromoform	9.84		0.500	ug/L	10.0	ND	98.4	59-140		
1,2,3-Trichlorobenzene	12.1		0.500	ug/L	10.0	ND	121	67-134		
Bromodichloromethane	10.9		0.500	ug/L	10.0	ND	109	70-130		
1,3,5-Trimethylbenzene	12.5		0.500	ug/L	10.0	ND	125	40-140		
Bromobenzene	11.0		0.500	ug/L	10.0	ND	110	70-130		
Benzene	11.7		0.500	ug/L	10.0	ND	117	70-130		
Acrylonitrile	11.5		0.500	ug/L	10.0	ND	115	65-137		
p-Chlorotoluene	12.2		0.500	ug/L	10.0	ND	122	70-130		
2-hexanone	10.6		2.50	ug/L	10.0	ND	106	43-175		
o-Chlorotoluene	12.1		0.500	ug/L	10.0	ND	121	70-130		
2,2-Dichloropropane	10.5		0.500	ug/L	10.0	ND	105	70-130		
1,4-Dichlorobenzene (para-Dichlorobenzene)	11.4		0.500	ug/L	10.0	ND	114	70-130		
1,3-Dichloropropane	10.9		0.500	ug/L	10.0	ND	109	70-130		
m-Dichlorobenzene	11.4		0.500	ug/L	10.0	ND	114	70-130		
Surrogate: Toluene-d8			*20.7*	*ug/L*	*20.0*		*103*	*70-130*		
Surrogate: 4-Bromofluorobenzene			*19.2*	*ug/L*	*20.0*		*96.2*	*70-130*		
Surrogate: 1,2-Dichlorobenzene-d4			*20.0*	*ug/L*	*20.0*		*100*	*70-130*		

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Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0119 - VOC (Continued)										
Matrix Spike (BDI0119-MS2)	**Source: MDI0036-01**				Prepared & Analyzed: 9/6/2023					
Chloroform	11.8		0.500	ug/L	10.0	ND	118	70-130		
Methyl ethyl ketone (MEK)	10.9		2.50	ug/L	10.0	ND	109	47-165		
m/p Xylenes (MCL for total)	25.1		0.500	ug/L	20.0	ND	126	57-130		
Isopropylbenzene	12.7		0.500	ug/L	10.0	ND	127	70-130		
Hexachlorobutadiene	12.2		0.500	ug/L	10.0	ND	122	70-130		
Ethylbenzene	12.2		0.500	ug/L	10.0	ND	122	70-130		
Dichlorodifluoromethane	10.4		0.500	ug/L	10.0	ND	104	57-136		
Dibromomethane	11.9		0.500	ug/L	10.0	ND	119	70-130		
Dibromochloromethane	11.3		0.500	ug/L	10.0	ND	113	70-130		
Chlorobenzene (Monochlorobenzene)	11.3		0.500	ug/L	10.0	ND	113	70-130		
cis-1,2-Dichloroethylene	11.3		0.500	ug/L	10.0	ND	113	70-130		
Chloroethane	13.4		0.500	ug/L	10.0	ND	134	68-138		
Vinyl Chloride	11.8		0.500	ug/L	10.0	ND	118	70-130		
Methyl isobutyl ketone (MIBK)	11.0		2.50	ug/L	10.0	ND	110	53-167		
cis-1,3-Dichloropropene	10.7		0.500	ug/L	10.0	ND	107	74-124		
Styrene	13.4	M1	0.500	ug/L	10.0	ND	134	30-130		
Bromoform	10.7		0.500	ug/L	10.0	ND	107	59-140		
Trichloroflouromethane	11.8		0.500	ug/L	10.0	ND	118	50-154		
trans-1,3-Dichloropropene	10.8		0.500	ug/L	10.0	ND	108	61-131		
trans-1,2 Dichloroethylene	11.6		0.500	ug/L	10.0	ND	116	70-130		
Toluene	11.8		0.500	ug/L	10.0	ND	118	70-130		
Trichloroethene	11.4		0.500	ug/L	10.0	ND	114	70-130		
tert-Butylbenzene	12.9		0.500	ug/L	10.0	ND	129	70-130		
methyl-t-butyl ether (MTBE)	10.4		0.500	ug/L	10.0	ND	104	57-138		
sec-Butylbenzene	13.2	M1	0.500	ug/L	10.0	ND	132	70-130		
p-isopropyltoluene	12.5		0.500	ug/L	10.0	ND	125	70-130		
o-Xylene (MCL for total)	12.6		0.500	ug/L	10.0	ND	126	62-127		
n-Propylbenzene	13.0		0.500	ug/L	10.0	ND	130	70-130		
n-Butylbenzene	12.3		0.500	ug/L	10.0	ND	123	67-130		
Naphthalene	11.0		0.500	ug/L	10.0	ND	110	56-147		
Tetrachloroethylene	11.6		0.500	ug/L	10.0	ND	116	70-130		
Carbon Tetrachloride	11.3		0.500	ug/L	10.0	ND	113	70-130		
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	11.8		0.500	ug/L	10.0	ND	118	70-130		
EDB (screening)	12.1		0.500	ug/L	10.0	ND	121	70-130		
DBCP (screening)	10.5		0.500	ug/L	10.0	ND	105	55-146		
1,2,4-Trimethylbenzene	13.4		0.500	ug/L	10.0	ND	134	40-140		
1,2,4-Trichlorobenzene	11.4		0.500	ug/L	10.0	ND	114	70-130		
1,2,3-Trichlorobenzene	12.3		0.500	ug/L	10.0	ND	123	67-134		
1,2,3-Trichloropropane	12.0		0.500	ug/L	10.0	ND	120	69-137		
1,1-Dichloroethylene	11.3		0.500	ug/L	10.0	ND	113	70-130		
1,1-Dichloroethane	11.4		0.500	ug/L	10.0	ND	114	70-130		
1,1,2-Trichlorethane	12.0		0.500	ug/L	10.0	ND	120	70-130		
1,1,2,2-Tetrachloroethane	12.6		0.500	ug/L	10.0	ND	126	67-136		
1,1,1-Trichloroethane	11.5		0.500	ug/L	10.0	ND	115	70-130		
Carbon disulfide	11.5		0.500	ug/L	10.0	ND	115	70-130		
1,1,1,2-Tetrachloroethane	11.9		0.500	ug/L	10.0	ND	119	70-130		
Acrylonitrile	11.0		0.500	ug/L	10.0	ND	110	65-137		
Bromodichloromethane	11.2		0.500	ug/L	10.0	ND	112	70-130		
1,1-Dichloropropene	12.4		0.500	ug/L	10.0	ND	124	70-130		
1,2-Dichloroethane	11.2		0.500	ug/L	10.0	ND	112	70-130		

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Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0119 - VOC (Continued)										
Matrix Spike (BDI0119-MS2)	**Source: MDI0036-01**				Prepared & Analyzed: 9/6/2023					
Bromochloromethane	11.8		0.500	ug/L	10.0	ND	118	70-130		
Benzene	11.8		0.500	ug/L	10.0	ND	118	70-130		
p-Chlorotoluene	13.2	M1	0.500	ug/L	10.0	ND	132	70-130		
m-Dichlorobenzene	11.6		0.500	ug/L	10.0	ND	116	70-130		
1,2-Dichloropropane	11.6		0.500	ug/L	10.0	ND	116	70-130		
Bromobenzene	12.1		0.500	ug/L	10.0	ND	121	70-130		
1,3,5-Trimethylbenzene	13.4		0.500	ug/L	10.0	ND	134	40-140		
2-hexanone	10.9		2.50	ug/L	10.0	ND	109	43-175		
1,3-Dichloropropane	12.3		0.500	ug/L	10.0	ND	123	70-130		
1,4-Dichlorobenzene (para-Dichlorobenzene)	11.6		0.500	ug/L	10.0	ND	116	70-130		
2,2-Dichloropropane	10.5		0.500	ug/L	10.0	ND	105	70-130		
o-Chlorotoluene	13.0		0.500	ug/L	10.0	ND	130	70-130		
Surrogate: Toluene-d8			*20.4*	*ug/L*	*20.0*		*102*	*70-130*		
Surrogate: 4-Bromofluorobenzene			*20.4*	*ug/L*	*20.0*		*102*	*70-130*		
Surrogate: 1,2-Dichlorobenzene-d4			*20.0*	*ug/L*	*20.0*		*100*	*70-130*		
Matrix Spike Dup (BDI0119-MSD1)	**Source: MDI0024-01**				Prepared & Analyzed: 9/6/2023					
Ethylbenzene	13.3	M1	0.500	ug/L	10.0	ND	133	70-130	15.6	20
Carbon Tetrachloride	11.6		0.500	ug/L	10.0	ND	116	70-130	2.62	20
Methyl ethyl ketone (MEK)	11.4		2.50	ug/L	10.0	ND	114	47-165	8.20	20
m/p Xylenes (MCL for total)	27.0	M1	0.500	ug/L	20.0	ND	135	57-130	18.4	20
Isopropylbenzene	13.7	M1	0.500	ug/L	10.0	ND	137	70-130	18.7	20
Hexachlorobutadiene	13.2	M1	0.500	ug/L	10.0	ND	132	70-130	3.95	20
methyl-t-butyl ether (MTBE)	10.3		0.500	ug/L	10.0	ND	103	57-138	5.28	20
Dichlorodifluoromethane	10.6		0.500	ug/L	10.0	ND	106	57-136	2.50	20
Dibromomethane	11.8		0.500	ug/L	10.0	ND	118	70-130	1.45	20
Dibromochloromethane	11.7		0.500	ug/L	10.0	ND	117	70-130	14.6	20
cis-1,3-Dichloropropene	10.8		0.500	ug/L	10.0	ND	108	74-124	7.27	20
cis-1,2-Dichloroethylene	11.7		0.500	ug/L	10.0	ND	117	70-130	4.63	20
Chloroform	12.0		0.500	ug/L	10.0	ND	120	70-130	1.76	20
Chlorobenzene (Monochlorobenzene)	13.0		0.500	ug/L	10.0	ND	130	70-130	13.9	20
Chloroethane	14.0	M1	0.500	ug/L	10.0	ND	140	68-138	2.17	20
Tetrachloroethylene	12.5		0.500	ug/L	10.0	ND	125	70-130	13.4	20
Methyl isobutyl ketone (MIBK)	11.6		2.50	ug/L	10.0	ND	116	53-167	5.57	20
Vinyl Chloride	12.4		0.500	ug/L	10.0	ND	124	70-130	4.30	20
Carbon disulfide	12.1		0.500	ug/L	10.0	ND	121	70-130	4.67	20
Trichloroethene	11.8		0.500	ug/L	10.0	ND	118	70-130	6.63	20
trans-1,3-Dichloropropene	11.4		0.500	ug/L	10.0	ND	114	61-131	17.3	20
trans-1,2 Dichloroethylene	12.2		0.500	ug/L	10.0	ND	122	70-130	5.73	20
Trichloroflouromethane	11.9		0.500	ug/L	10.0	ND	119	50-154	4.55	20
Toluene	12.3		0.500	ug/L	10.0	ND	123	70-130	3.57	20
n-Butylbenzene	12.8		0.500	ug/L	10.0	ND	128	67-130	4.96	20
tert-Butylbenzene	13.8	M1	0.500	ug/L	10.0	ND	138	70-130	16.4	20
Styrene	14.2	M1	0.500	ug/L	10.0	ND	142	30-130	14.9	20
sec-Butylbenzene	14.4	M1	0.500	ug/L	10.0	ND	144	70-130	16.0	20
p-isopropyltoluene	13.7	M1	0.500	ug/L	10.0	ND	137	70-130	14.9	20
o-Xylene (MCL for total)	13.5	M1	0.500	ug/L	10.0	ND	135	62-127	18.3	20
n-Propylbenzene	14.1	M1	0.500	ug/L	10.0	ND	141	70-130	15.1	20
1,1-Dichloropropene	12.7		0.500	ug/L	10.0	ND	127	70-130	4.83	20
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	11.8		0.500	ug/L	10.0	ND	118	70-130	2.32	20

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Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0119 - VOC (Continued)										
Matrix Spike Dup (BDI0119-MSD1)	**Source: MDI0024-01**				Prepared & Analyzed: 9/6/2023					
EDB (screening)	12.7		0.500	ug/L	10.0	ND	127	70-130	15.5	20
DBCP (screening)	11.4		0.500	ug/L	10.0	ND	114	55-146	8.41	20
1,2,4-Trimethylbenzene	14.5	M1	0.500	ug/L	10.0	ND	145	40-140	14.5	20
1,1,1,2-Tetrachloroethane	12.3		0.500	ug/L	10.0	ND	123	70-130	13.8	20
Bromoform	11.6		0.500	ug/L	10.0	ND	116	59-140	16.1	20
1,2,4-Trichlorobenzene	11.6		0.500	ug/L	10.0	ND	116	70-130	7.04	20
1,1-Dichloroethylene	11.6		0.500	ug/L	10.0	ND	116	70-130	5.66	20
1,1-Dichloroethane	11.8		0.500	ug/L	10.0	ND	118	70-130	3.71	20
1,1,2-Trichlorethane	12.6		0.500	ug/L	10.0	ND	126	70-130	12.8	20
1,1,2,2-Tetrachloroethane	13.2		0.500	ug/L	10.0	ND	132	67-136	12.3	20
1,1,1-Trichloroethane	11.9		0.500	ug/L	10.0	ND	119	70-130	3.50	20
Naphthalene	11.7		0.500	ug/L	10.0	ND	117	56-147	7.89	20
1,2,3-Trichloropropane	13.0		0.500	ug/L	10.0	ND	130	69-137	10.9	20
p-Chlorotoluene	14.2	M1	0.500	ug/L	10.0	ND	142	70-130	14.8	20
Bromodichloromethane	11.4		0.500	ug/L	10.0	ND	114	70-130	4.13	20
1,2,3-Trichlorobenzene	12.8		0.500	ug/L	10.0	ND	128	67-134	5.46	20
1,2-Dichloroethane	11.4		0.500	ug/L	10.0	ND	114	70-130	2.86	20
Bromobenzene	12.7		0.500	ug/L	10.0	ND	127	70-130	15.1	20
Acrylonitrile	12.0		0.500	ug/L	10.0	ND	120	65-137	3.75	20
Bromochloromethane	11.9		0.500	ug/L	10.0	ND	119	70-130	2.12	20
2-hexanone	12.7		2.50	ug/L	10.0	ND	127	43-175	18.1	20
o-Chlorotoluene	14.1	M1	0.500	ug/L	10.0	ND	141	70-130	15.1	20
2,2-Dichloropropane	11.0		0.500	ug/L	10.0	ND	110	70-130	4.58	20
1,4-Dichlorobenzene (para-Dichlorobenzene)	11.7		0.500	ug/L	10.0	ND	117	70-130	3.21	20
1,3-Dichloropropane	12.5		0.500	ug/L	10.0	ND	125	70-130	14.1	20
m-Dichlorobenzene	11.7		0.500	ug/L	10.0	ND	117	70-130	3.21	20
1,3,5-Trimethylbenzene	14.5	M1	0.500	ug/L	10.0	ND	145	40-140	14.5	20
1,2-Dichloropropane	12.0		0.500	ug/L	10.0	ND	120	70-130	4.79	20
Benzene	12.1		0.500	ug/L	10.0	ND	121	70-130	3.11	20
Surrogate: Toluene-d8			*20.4*	*ug/L*	*20.0*		*102*	*70-130*		
Surrogate: 4-Bromofluorobenzene			*21.3*	*ug/L*	*20.0*		*106*	*70-130*		
Surrogate: 1,2-Dichlorobenzene-d4			*20.0*	*ug/L*	*20.0*		*100*	*70-130*		

Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0119 - VOC (Continued)										
Matrix Spike Dup (BDI0119-MSD2)	**Source: MDI0036-01**				Prepared & Analyzed: 9/6/2023					
Ethylbenzene	12.2		0.500	ug/L	10.0	ND	122	70-130	0.245	20
Methyl isobutyl ketone (MIBK)	11.6		2.50	ug/L	10.0	ND	116	53-167	5.06	20
Methyl ethyl ketone (MEK)	11.6		2.50	ug/L	10.0	ND	116	47-165	6.21	20
m/p Xylenes (MCL for total)	25.4		0.500	ug/L	20.0	ND	127	57-130	0.951	20
Isopropylbenzene	13.0		0.500	ug/L	10.0	ND	130	70-130	2.34	20
Hexachlorobutadiene	12.6		0.500	ug/L	10.0	ND	126	70-130	3.38	20
Dichlorodifluoromethane	10.8		0.500	ug/L	10.0	ND	108	57-136	3.98	20
Dibromomethane	12.2		0.500	ug/L	10.0	ND	122	70-130	2.58	20
Dibromochloromethane	11.1		0.500	ug/L	10.0	ND	111	70-130	1.70	20
cis-1,3-Dichloropropene	11.2		0.500	ug/L	10.0	ND	112	74-124	4.55	20
cis-1,2-Dichloroethylene	12.0		0.500	ug/L	10.0	ND	120	70-130	6.08	20
Chloroform	12.1		0.500	ug/L	10.0	ND	121	70-130	2.52	20
Chlorobenzene (Monochlorobenzene)	12.1		0.500	ug/L	10.0	ND	121	70-130	6.60	20
Chloroethane	13.9	M1	0.500	ug/L	10.0	ND	139	68-138	3.66	20
tert-Butylbenzene	13.0		0.500	ug/L	10.0	ND	130	70-130	0.851	20
1,2-Dichloroethane	11.3		0.500	ug/L	10.0	ND	113	70-130	0.802	20
Trichloroflouromethane	12.2		0.500	ug/L	10.0	ND	122	50-154	2.92	20
Carbon Tetrachloride	11.8		0.500	ug/L	10.0	ND	118	70-130	4.43	20
trans-1,3-Dichloropropene	10.9		0.500	ug/L	10.0	ND	109	61-131	0.184	20
trans-1,2 Dichloroethylene	12.1		0.500	ug/L	10.0	ND	121	70-130	4.38	20
Trichloroethene	11.9		0.500	ug/L	10.0	ND	119	70-130	4.98	20
Tetrachloroethylene	11.5		0.500	ug/L	10.0	ND	115	70-130	0.950	20
methyl-t-butyl ether (MTBE)	10.7		0.500	ug/L	10.0	ND	107	57-138	2.66	20
Styrene	13.2	M1	0.500	ug/L	10.0	ND	132	30-130	0.977	20
sec-Butylbenzene	13.3	M1	0.500	ug/L	10.0	ND	133	70-130	1.21	20
p-isopropyltoluene	12.5		0.500	ug/L	10.0	ND	125	70-130	0.160	20
o-Xylene (MCL for total)	12.7		0.500	ug/L	10.0	ND	127	62-127	1.11	20
n-Propylbenzene	12.9		0.500	ug/L	10.0	ND	129	70-130	0.852	20
n-Butylbenzene	12.6		0.500	ug/L	10.0	ND	126	67-130	2.89	20
Naphthalene	11.8		0.500	ug/L	10.0	ND	118	56-147	7.10	20
Toluene	12.3		0.500	ug/L	10.0	ND	123	70-130	3.82	20
1,1-Dichloroethylene	11.9		0.500	ug/L	10.0	ND	119	70-130	5.11	20
EDB (screening)	12.0		0.500	ug/L	10.0	ND	120	70-130	0.745	20
DBCP (screening)	11.0		0.500	ug/L	10.0	ND	110	55-146	4.65	20
1,2,4-Trimethylbenzene	13.5		0.500	ug/L	10.0	ND	135	40-140	0.445	20
1,2,4-Trichlorobenzene	11.8		0.500	ug/L	10.0	ND	118	70-130	3.97	20
1,2,3-Trichloropropane	11.8		0.500	ug/L	10.0	ND	118	69-137	2.27	20
1,3,5-Trimethylbenzene	13.5		0.500	ug/L	10.0	ND	135	40-140	0.445	20
1,1-Dichloropropene	12.8		0.500	ug/L	10.0	ND	128	70-130	3.73	20
1,2-Dichloropropane	12.2		0.500	ug/L	10.0	ND	122	70-130	4.63	20
1,1-Dichloroethane	11.9		0.500	ug/L	10.0	ND	119	70-130	4.22	20
1,1,2-Trichlorethane	11.7		0.500	ug/L	10.0	ND	117	70-130	2.53	20
1,1,2,2-Tetrachloroethane	12.1		0.500	ug/L	10.0	ND	121	67-136	3.65	20
1,1,1-Trichloroethane	11.9		0.500	ug/L	10.0	ND	119	70-130	3.76	20
1,1,1,2-Tetrachloroethane	11.6		0.500	ug/L	10.0	ND	116	70-130	1.79	20
Vinyl Chloride	12.3		0.500	ug/L	10.0	ND	123	70-130	4.49	20
1,2,3-Trichlorobenzene	12.8		0.500	ug/L	10.0	ND	128	67-134	3.83	20
2-hexanone	11.1		2.50	ug/L	10.0	ND	111	43-175	2.18	20
Bromoform	10.9		0.500	ug/L	10.0	ND	109	59-140	1.20	20
Bromodichloromethane	11.4		0.500	ug/L	10.0	ND	114	70-130	1.86	20

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Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0119 - VOC (Continued)										
Matrix Spike Dup (BDI0119-MSD2)	**Source: MDI0036-01**				Prepared & Analyzed: 9/6/2023					
Bromochloromethane	12.0		0.500	ug/L	10.0	ND	120	70-130	1.43	20
Bromobenzene	12.0		0.500	ug/L	10.0	ND	120	70-130	1.16	20
Benzene	12.1		0.500	ug/L	10.0	ND	121	70-130	2.52	20
Acrylonitrile	11.1		0.500	ug/L	10.0	ND	111	65-137	0.362	20
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	11.8		0.500	ug/L	10.0	ND	118	70-130	0.508	20
o-Chlorotoluene	12.9		0.500	ug/L	10.0	ND	129	70-130	0.852	20
2,2-Dichloropropane	11.1		0.500	ug/L	10.0	ND	111	70-130	5.09	20
1,4-Dichlorobenzene (para-Dichlorobenzene)	11.9		0.500	ug/L	10.0	ND	119	70-130	2.38	20
1,3-Dichloropropane	11.9		0.500	ug/L	10.0	ND	119	70-130	3.06	20
m-Dichlorobenzene	11.9		0.500	ug/L	10.0	ND	119	70-130	2.38	20
Carbon disulfide	12.0		0.500	ug/L	10.0	ND	120	70-130	4.50	20
p-Chlorotoluene	13.0		0.500	ug/L	10.0	ND	130	70-130	1.91	20
Surrogate: Toluene-d8			*20.4*	*ug/L*	*20.0*		*102*	*70-130*		
Surrogate: 4-Bromofluorobenzene			*19.8*	*ug/L*	*20.0*		*98.8*	*70-130*		
Surrogate: 1,2-Dichlorobenzene-d4			*20.0*	*ug/L*	*20.0*		*100*	*70-130*		

Chain of Custody Record

Anatek Labs, Inc.
1282 Alturas Drive, Moscow ID 83843 (208) 883-2839
504 E Sprague Ste D, Spokane WA 99202 (509) 838-3999

MDI0036

Due: 09/14/23

Company Name: PBS Engineering and Environmental	Project Manager: Scott Braunsten
Address: 4412 S Corbett Ave	Project Name & #: Camp Bonneville, 76151.012
City: Portland State: OR Zip: 97239	Purchase Order #:
Phone: 503-248-1939	Sampler Name & Phone: S.Eckes 845 2649692
Email Address(es): scott.braunsten@pbsusa.com, samantha.eckes@pbsusa.com	

Turn Around Time & Reporting

Please r
w

✓ Normal
__ Next Day*
__ 2nd Day*
__ Other*___

List Analyses Requested

Lab ID	Sample Identification	Sampling Date/Time	Matrix	Preservative:	# of Containers	Sample Volume	VOCs by 8260B	Explosives by 8330	Perchlorate by 6850	RDX by 8330
	03Q23LCMW01DW	8/29/23 1145	H2O		14		X	X	X	
	03Q23LCMW01SW	1245			6		X	X	X	
	03Q23LCMW14DW				6		X	X	X	
	03Q23LC15SW	1545			2					X
	082923TB	—			1		X			

Note Special Instructions/Comments

Please send login confirmation

Please provide EQuIS EDD + WA EIM

Please run Data Package III

Inspection Checklist

Received Intact?	Y	N
Labels & Chains Agree?	Y	N
Containers Sealed?	Y	N
No VOC Head Space?	Y	N
Cooler?	Y	N
Ice/Ice Packs Present?	Y	N

Temperature (°C):_____
Number of Containers:_____
Shipped Via:_____
Preservative:_____
Date & Time:_____
Inspected By:_____

	Printed Name	Signature	Company	Date	Time
Relinquished by	S.ECKES		PBS	8/29/23	1710
Received by	SLN			5/30/23	12:24
Relinquished by					
Received by					
Relinquished by					
Received by					

Samples submitted to Anatek Labs may be subcontacted to other accredited labs if necessary. This message serves as notice of this possibility. Subcontracted analyses will be clearly noted on the analytical report.

Anatek Labs, Inc.

Sample Receipt and Preservation Form

Client Name: PBS

TAT: (Normal) RUSH: _____ days

Samples Received From: (FedEx) UPS USPS Client Courier Other: _____

Custody Seal on Cooler/Box: Yes (No) Custody Seals Intact: Yes No (N/A)

Number of Coolers/Boxes: 3 Type of Ice: (Wet Ice) Ice Packs Dry Ice None

Packing Material: (Bubble Wrap) Bags Foam/Peanuts Paper None Other: _____

Cooler Temp As Read (°C): 1.1°C Cooler Temp Corrected (°C): — Thermometer Used: IR-5

				Comments:
Samples Received Intact?	(Yes)	No	N/A	0823LC155W (RDX) R
Chain of Custody Present/Complete?	(Yes)	No	N/A	
Labels and Chains Agree?	Yes	No	N/A	
Samples Received Within Hold Time?	(Yes)	No	N/A	
Correct Containers Received?	(Yes)	No	N/A	
Anatek Bottles Used?	(Yes)	No	Unknown	
Total Number of Sample Bottles Received:	31	29 TB 8/30/23		

				Initial pH:	pH Paper ID:
Samples Properly Preserved?	Yes	No	N/A	<2 or	
If No, record preservation and pH-after details					
VOC Vials Free of Headspace (<6mm)?	Yes	No	N/A		
VOC Trip Blanks Present?	Yes	No	N/A		

Record preservatives (and lot numbers, if known) for containers below:

G44 HCl 8260 x 13 + TB

G1L Explosives x 12

P 125 x 3

Notes, comments, etc. (also use this space if contacting the client - record names and date/time)

email about missing samples emailed 9/1/23 (was waiting for delayed coolers)

Client resampling RDX

Received/Inspected By: SW Date/Time: 8/30/23 12:24

Form F19.01 - Eff 1 Dec 2022

Page 1 of 1

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504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - email spokane@anateklabs.com

Client:	PBS Engineering - Portland	Work Order:	MDI0255
Address:	4412 SW Corbett Ave	Project:	Camp Bonneville, 76151.011
	Portland, OR 97239	Reported:	10/20/2023 14:24
Attn:	Scott Braunsten		

Analytical Results Report

Sample Location:	03Q23L4MW11BW		
Lab/Sample Number:	MDI0255-01	Collect Date:	09/06/23 10:00
Date Received:	09/08/23 13:36	Collected By:	
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Perchlorate	665	ug/L	25.0	9/18/23 11:15	GPB	EPA 6850	
Semivolatiles							
1,3,5-TNB	ND	ug/L	0.500	9/16/23 6:28	MER	EPA 8330B	
1,3-Dinitrobenzene	ND	ug/L	0.500	9/16/23 6:28	MER	EPA 8330B	
2,4,6-Trinitrotoluene	ND	ug/L	0.100	9/16/23 6:28	MER	EPA 8330B	
2,4-Dinitrotoluene	ND	ug/L	0.100	9/16/23 6:28	MER	EPA 8330B	
2,6-DNT	ND	ug/L	0.500	9/16/23 6:28	MER	EPA 8330B	
2-Amino-4,6-dinitrotoluene	ND	ug/L	0.500	9/16/23 6:28	MER	EPA 8330B	
2-Nitrotoluene	ND	ug/L	0.500	9/16/23 6:28	MER	EPA 8330B	
3-Nitrotoluene	ND	ug/L	0.500	9/16/23 6:28	MER	EPA 8330B	
4-Amino-2,6-dinitrotoluene	ND	ug/L	0.500	9/16/23 6:28	MER	EPA 8330B	
4-Nitrotoluene	ND	ug/L	0.500	9/16/23 6:28	MER	EPA 8330B	
HMX	ND	ug/L	0.100	9/16/23 6:28	MER	EPA 8330B	
NB	ND	ug/L	0.500	9/16/23 6:28	MER	EPA 8330B	
RDX	46.6	ug/L	0.100	9/16/23 6:28	MER	EPA 8330B	
Tetryl	ND	ug/L	0.500	9/16/23 6:28	MER	EPA 8330B	
Surrogate: 1,2-Dinitrobenzene	*86.8%*		*70-130*	*9/16/23 6:28*	*MER*	*EPA 8330B*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	9/11/23 20:32	BKP	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	9/11/23 20:32	BKP	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	9/11/23 20:32	BKP	EPA 8260D	
1,1,2-Trichloroethane	ND	ug/L	0.500	9/11/23 20:32	BKP	EPA 8260D	
1,1-Dichloroethane	3.69	ug/L	0.500	9/11/23 20:32	BKP	EPA 8260D	
1,1-Dichloroethene	1.71	ug/L	0.500	9/11/23 20:32	BKP	EPA 8260D	
1,1-dichloropropene	ND	ug/L	0.500	9/11/23 20:32	BKP	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	9/11/23 20:32	BKP	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	9/11/23 20:32	BKP	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	9/11/23 20:32	BKP	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	9/11/23 20:32	BKP	EPA 8260D	
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.500	9/11/23 20:32	BKP	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	ug/L	0.500	9/11/23 20:32	BKP	EPA 8260D	
1,2-Dichlorobenzene	ND	ug/L	0.500	9/11/23 20:32	BKP	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	9/11/23 20:32	BKP	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	9/11/23 20:32	BKP	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	9/11/23 20:32	BKP	EPA 8260D	
1,3-Dichlorobenzene	ND	ug/L	0.500	9/11/23 20:32	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location:	03Q23L4MW11BW		
Lab/Sample Number:	MDI0255-01	Collect Date:	09/06/23 10:00
Date Received:	09/08/23 13:36	Collected By:	
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
1,3-Dichloropropane	ND	ug/L	0.500	9/11/23 20:32	BKP	EPA 8260D	
1,4-Dichlorobenzene	ND	ug/L	0.500	9/11/23 20:32	BKP	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	9/11/23 20:32	BKP	EPA 8260D	
2-Chlorotoluene	ND	ug/L	0.500	9/11/23 20:32	BKP	EPA 8260D	
2-hexanone	ND	ug/L	2.50	9/11/23 20:32	BKP	EPA 8260D	
4-Chlorotoluene	ND	ug/L	0.500	9/11/23 20:32	BKP	EPA 8260D	
Acetone	ND	ug/L	2.50	9/11/23 20:32	BKP	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	9/11/23 20:32	BKP	EPA 8260D	
Benzene	ND	ug/L	0.500	9/11/23 20:32	BKP	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	9/11/23 20:32	BKP	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	9/11/23 20:32	BKP	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	9/11/23 20:32	BKP	EPA 8260D	
Bromoform	ND	ug/L	0.500	9/11/23 20:32	BKP	EPA 8260D	
Bromomethane	ND	ug/L	0.500	9/11/23 20:32	BKP	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	9/11/23 20:32	BKP	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	9/11/23 20:32	BKP	EPA 8260D	
Chlorobenzene	ND	ug/L	0.500	9/11/23 20:32	BKP	EPA 8260D	
Chloroethane	ND	ug/L	0.500	9/11/23 20:32	BKP	EPA 8260D	
Chloroform	ND	ug/L	0.500	9/11/23 20:32	BKP	EPA 8260D	
Chloromethane	ND	ug/L	0.500	9/11/23 20:32	BKP	EPA 8260D	
cis-1,2-dichloroethene	ND	ug/L	0.500	9/11/23 20:32	BKP	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	9/11/23 20:32	BKP	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	9/11/23 20:32	BKP	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	9/11/23 20:32	BKP	EPA 8260D	
Dichlorodifluoromethane	6.57	ug/L	0.500	9/11/23 20:32	BKP	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	9/11/23 20:32	BKP	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	9/11/23 20:32	BKP	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	9/11/23 20:32	BKP	EPA 8260D	
m+p-Xylene	ND	ug/L	0.500	9/11/23 20:32	BKP	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	9/11/23 20:32	BKP	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	9/11/23 20:32	BKP	EPA 8260D	
Methylene chloride	ND	ug/L	2.50	9/11/23 20:32	BKP	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	9/11/23 20:32	BKP	EPA 8260D	
Naphthalene	ND	ug/L	0.500	9/11/23 20:32	BKP	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	9/11/23 20:32	BKP	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	9/11/23 20:32	BKP	EPA 8260D	
o-Xylene	ND	ug/L	0.500	9/11/23 20:32	BKP	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	9/11/23 20:32	BKP	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	9/11/23 20:32	BKP	EPA 8260D	
Styrene	ND	ug/L	0.500	9/11/23 20:32	BKP	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	9/11/23 20:32	BKP	EPA 8260D	
Tetrachloroethene	ND	ug/L	0.500	9/11/23 20:32	BKP	EPA 8260D	
Toluene	ND	ug/L	0.500	9/11/23 20:32	BKP	EPA 8260D	
trans-1,2-Dichloroethene	ND	ug/L	0.500	9/11/23 20:32	BKP	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	9/11/23 20:32	BKP	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	9/11/23 20:32	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location:	03Q23L4MW11BW		
Lab/Sample Number:	MDI0255-01	Collect Date:	09/06/23 10:00
Date Received:	09/08/23 13:36	Collected By:	
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Trichlorofluoromethane	ND	ug/L	0.500	9/11/23 20:32	BKP	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	9/11/23 20:32	BKP	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*100%*		*70-130*	*9/11/23 20:32*	*BKP*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*88.6%*		*70-130*	*9/11/23 20:32*	*BKP*	*EPA 8260D*	
Surrogate: Toluene-d8	*96.0%*		*70-130*	*9/11/23 20:32*	*BKP*	*EPA 8260D*	

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Analytical Results Report

(Continued)

Sample Location: 03Q23LWMW10BW
Lab/Sample Number: MDI0255-02 Collect Date: 09/06/23 11:45
Date Received: 09/08/23 13:36 Collected By:
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Perchlorate	251	ug/L	25.0	9/18/23 11:37	GPB	EPA 6850	
Semivolatiles							
1,3,5-TNB	ND	ug/L	0.500	9/16/23 7:06	MER	EPA 8330B	
1,3-Dinitrobenzene	ND	ug/L	0.500	9/16/23 7:06	MER	EPA 8330B	
2,4,6-Trinitrotoluene	ND	ug/L	0.100	9/16/23 7:06	MER	EPA 8330B	
2,4-Dinitrotoluene	ND	ug/L	0.100	9/16/23 7:06	MER	EPA 8330B	
2,6-DNT	ND	ug/L	0.500	9/16/23 7:06	MER	EPA 8330B	
2-Amino-4,6-dinitrotoluene	ND	ug/L	0.500	9/16/23 7:06	MER	EPA 8330B	
2-Nitrotoluene	ND	ug/L	0.500	9/16/23 7:06	MER	EPA 8330B	
3-Nitrotoluene	ND	ug/L	0.500	9/16/23 7:06	MER	EPA 8330B	
4-Amino-2,6-dinitrotoluene	ND	ug/L	0.500	9/16/23 7:06	MER	EPA 8330B	
4-Nitrotoluene	ND	ug/L	0.500	9/16/23 7:06	MER	EPA 8330B	
HMX	0.161	ug/L	0.100	9/16/23 7:06	MER	EPA 8330B	
NB	ND	ug/L	0.500	9/16/23 7:06	MER	EPA 8330B	
RDX	13.3	ug/L	0.100	9/16/23 7:06	MER	EPA 8330B	
Tetryl	ND	ug/L	0.500	9/16/23 7:06	MER	EPA 8330B	
Surrogate: 1,2-Dinitrobenzene	*89.7%*		*70-130*	*9/16/23 7:06*	*MER*	*EPA 8330B*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	9/11/23 16:44	BKP	EPA 8260D	
1,1,1-Trichloroethane	2.85	ug/L	0.500	9/11/23 16:44	BKP	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	9/11/23 16:44	BKP	EPA 8260D	
1,1,2-Trichloroethane	ND	ug/L	0.500	9/11/23 16:44	BKP	EPA 8260D	
1,1-Dichloroethane	5.61	ug/L	0.500	9/11/23 16:44	BKP	EPA 8260D	
1,1-Dichloroethene	5.07	ug/L	0.500	9/11/23 16:44	BKP	EPA 8260D	
1,1-dichloropropene	ND	ug/L	0.500	9/11/23 16:44	BKP	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	9/11/23 16:44	BKP	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	9/11/23 16:44	BKP	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	9/11/23 16:44	BKP	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	9/11/23 16:44	BKP	EPA 8260D	
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.500	9/11/23 16:44	BKP	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	ug/L	0.500	9/11/23 16:44	BKP	EPA 8260D	
1,2-Dichlorobenzene	ND	ug/L	0.500	9/11/23 16:44	BKP	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	9/11/23 16:44	BKP	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	9/11/23 16:44	BKP	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	9/11/23 16:44	BKP	EPA 8260D	
1,3-Dichlorobenzene	ND	ug/L	0.500	9/11/23 16:44	BKP	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	9/11/23 16:44	BKP	EPA 8260D	
1,4-Dichlorobenzene	ND	ug/L	0.500	9/11/23 16:44	BKP	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	9/11/23 16:44	BKP	EPA 8260D	
2-Chlorotoluene	ND	ug/L	0.500	9/11/23 16:44	BKP	EPA 8260D	
2-hexanone	ND	ug/L	2.50	9/11/23 16:44	BKP	EPA 8260D	
4-Chlorotoluene	ND	ug/L	0.500	9/11/23 16:44	BKP	EPA 8260D	
Acetone	ND	ug/L	2.50	9/11/23 16:44	BKP	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	9/11/23 16:44	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location:	03Q23LWMW10BW		
Lab/Sample Number:	MDI0255-02	Collect Date:	09/06/23 11:45
Date Received:	09/08/23 13:36	Collected By:	
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Benzene	ND	ug/L	0.500	9/11/23 16:44	BKP	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	9/11/23 16:44	BKP	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	9/11/23 16:44	BKP	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	9/11/23 16:44	BKP	EPA 8260D	
Bromoform	ND	ug/L	0.500	9/11/23 16:44	BKP	EPA 8260D	
Bromomethane	ND	ug/L	0.500	9/11/23 16:44	BKP	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	9/11/23 16:44	BKP	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	9/11/23 16:44	BKP	EPA 8260D	
Chlorobenzene	ND	ug/L	0.500	9/11/23 16:44	BKP	EPA 8260D	
Chloroethane	ND	ug/L	0.500	9/11/23 16:44	BKP	EPA 8260D	
Chloroform	ND	ug/L	0.500	9/11/23 16:44	BKP	EPA 8260D	
Chloromethane	ND	ug/L	0.500	9/11/23 16:44	BKP	EPA 8260D	
cis-1,2-dichloroethene	ND	ug/L	0.500	9/11/23 16:44	BKP	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	9/11/23 16:44	BKP	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	9/11/23 16:44	BKP	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	9/11/23 16:44	BKP	EPA 8260D	
Dichlorodifluoromethane	15.5	ug/L	0.500	9/11/23 16:44	BKP	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	9/11/23 16:44	BKP	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	9/11/23 16:44	BKP	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	9/11/23 16:44	BKP	EPA 8260D	
m+p-Xylene	ND	ug/L	0.500	9/11/23 16:44	BKP	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	9/11/23 16:44	BKP	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	9/11/23 16:44	BKP	EPA 8260D	
Methylene chloride	ND	ug/L	2.50	9/11/23 16:44	BKP	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	9/11/23 16:44	BKP	EPA 8260D	
Naphthalene	ND	ug/L	0.500	9/11/23 16:44	BKP	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	9/11/23 16:44	BKP	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	9/11/23 16:44	BKP	EPA 8260D	
o-Xylene	ND	ug/L	0.500	9/11/23 16:44	BKP	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	9/11/23 16:44	BKP	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	9/11/23 16:44	BKP	EPA 8260D	
Styrene	ND	ug/L	0.500	9/11/23 16:44	BKP	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	9/11/23 16:44	BKP	EPA 8260D	
Tetrachloroethene	ND	ug/L	0.500	9/11/23 16:44	BKP	EPA 8260D	
Toluene	ND	ug/L	0.500	9/11/23 16:44	BKP	EPA 8260D	
trans-1,2-Dichloroethene	ND	ug/L	0.500	9/11/23 16:44	BKP	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	9/11/23 16:44	BKP	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	9/11/23 16:44	BKP	EPA 8260D	
Trichlorofluoromethane	ND	ug/L	0.500	9/11/23 16:44	BKP	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	9/11/23 16:44	BKP	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*100%*		*70-130*	*9/11/23 16:44*	*BKP*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*89.4%*		*70-130*	*9/11/23 16:44*	*BKP*	*EPA 8260D*	
Surrogate: Toluene-d8	*95.9%*		*70-130*	*9/11/23 16:44*	*BKP*	*EPA 8260D*	

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Analytical Results Report

(Continued)

Sample Location:	03Q23LWMW10BW		
Lab/Sample Number:	MDI0255-02	Collect Date:	09/06/23 11:45
Date Received:	09/08/23 13:36	Collected By:	
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							

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Analytical Results Report

(Continued)

Sample Location: 03Q23L4MW10AW
Lab/Sample Number: MDI0255-03 Collect Date: 09/06/23 12:40
Date Received: 09/08/23 13:36 Collected By:
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Perchlorate	73.0	ug/L	25.0	9/18/23 11:44	GPB	EPA 6850	
Semivolatiles							
1,3,5-TNB	ND	ug/L	0.500	9/16/23 7:44	MER	EPA 8330B	
1,3-Dinitrobenzene	ND	ug/L	0.500	9/16/23 7:44	MER	EPA 8330B	
2,4,6-Trinitrotoluene	ND	ug/L	0.100	9/16/23 7:44	MER	EPA 8330B	
2,4-Dinitrotoluene	ND	ug/L	0.100	9/16/23 7:44	MER	EPA 8330B	
2,6-DNT	ND	ug/L	0.500	9/16/23 7:44	MER	EPA 8330B	
2-Amino-4,6-dinitrotoluene	ND	ug/L	0.500	9/16/23 7:44	MER	EPA 8330B	
2-Nitrotoluene	ND	ug/L	0.500	9/16/23 7:44	MER	EPA 8330B	
3-Nitrotoluene	ND	ug/L	0.500	9/16/23 7:44	MER	EPA 8330B	
4-Amino-2,6-dinitrotoluene	ND	ug/L	0.500	9/16/23 7:44	MER	EPA 8330B	
4-Nitrotoluene	ND	ug/L	0.500	9/16/23 7:44	MER	EPA 8330B	
HMX	0.283	ug/L	0.100	9/16/23 7:44	MER	EPA 8330B	
NB	ND	ug/L	0.500	9/16/23 7:44	MER	EPA 8330B	
RDX	1.14	ug/L	0.100	9/16/23 7:44	MER	EPA 8330B	
Tetryl	ND	ug/L	0.500	9/16/23 7:44	MER	EPA 8330B	
Surrogate: 1,2-Dinitrobenzene	*87.2%*		*70-130*	*9/16/23 7:44*	*MER*	*EPA 8330B*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	9/11/23 21:04	BKP	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	9/11/23 21:04	BKP	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	9/11/23 21:04	BKP	EPA 8260D	
1,1,2-Trichloroethane	ND	ug/L	0.500	9/11/23 21:04	BKP	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	9/11/23 21:04	BKP	EPA 8260D	
1,1-Dichloroethene	ND	ug/L	0.500	9/11/23 21:04	BKP	EPA 8260D	
1,1-dichloropropene	ND	ug/L	0.500	9/11/23 21:04	BKP	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	9/11/23 21:04	BKP	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	9/11/23 21:04	BKP	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	9/11/23 21:04	BKP	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	9/11/23 21:04	BKP	EPA 8260D	
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.500	9/11/23 21:04	BKP	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	ug/L	0.500	9/11/23 21:04	BKP	EPA 8260D	
1,2-Dichlorobenzene	ND	ug/L	0.500	9/11/23 21:04	BKP	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	9/11/23 21:04	BKP	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	9/11/23 21:04	BKP	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	9/11/23 21:04	BKP	EPA 8260D	
1,3-Dichlorobenzene	ND	ug/L	0.500	9/11/23 21:04	BKP	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	9/11/23 21:04	BKP	EPA 8260D	
1,4-Dichlorobenzene	ND	ug/L	0.500	9/11/23 21:04	BKP	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	9/11/23 21:04	BKP	EPA 8260D	
2-Chlorotoluene	ND	ug/L	0.500	9/11/23 21:04	BKP	EPA 8260D	
2-hexanone	ND	ug/L	2.50	9/11/23 21:04	BKP	EPA 8260D	
4-Chlorotoluene	ND	ug/L	0.500	9/11/23 21:04	BKP	EPA 8260D	
Acetone	ND	ug/L	2.50	9/11/23 21:04	BKP	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	9/11/23 21:04	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: 03Q23L4MW10AW
Lab/Sample Number: MDI0255-03 Collect Date: 09/06/23 12:40
Date Received: 09/08/23 13:36 Collected By:
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Benzene	ND	ug/L	0.500	9/11/23 21:04	BKP	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	9/11/23 21:04	BKP	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	9/11/23 21:04	BKP	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	9/11/23 21:04	BKP	EPA 8260D	
Bromoform	ND	ug/L	0.500	9/11/23 21:04	BKP	EPA 8260D	
Bromomethane	ND	ug/L	0.500	9/11/23 21:04	BKP	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	9/11/23 21:04	BKP	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	9/11/23 21:04	BKP	EPA 8260D	
Chlorobenzene	ND	ug/L	0.500	9/11/23 21:04	BKP	EPA 8260D	
Chloroethane	ND	ug/L	0.500	9/11/23 21:04	BKP	EPA 8260D	
Chloroform	ND	ug/L	0.500	9/11/23 21:04	BKP	EPA 8260D	
Chloromethane	ND	ug/L	0.500	9/11/23 21:04	BKP	EPA 8260D	
cis-1,2-dichloroethene	ND	ug/L	0.500	9/11/23 21:04	BKP	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	9/11/23 21:04	BKP	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	9/11/23 21:04	BKP	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	9/11/23 21:04	BKP	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	9/11/23 21:04	BKP	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	9/11/23 21:04	BKP	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	9/11/23 21:04	BKP	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	9/11/23 21:04	BKP	EPA 8260D	
m+p-Xylene	ND	ug/L	0.500	9/11/23 21:04	BKP	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	9/11/23 21:04	BKP	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	9/11/23 21:04	BKP	EPA 8260D	
Methylene chloride	ND	ug/L	2.50	9/11/23 21:04	BKP	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	9/11/23 21:04	BKP	EPA 8260D	
Naphthalene	ND	ug/L	0.500	9/11/23 21:04	BKP	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	9/11/23 21:04	BKP	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	9/11/23 21:04	BKP	EPA 8260D	
o-Xylene	ND	ug/L	0.500	9/11/23 21:04	BKP	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	9/11/23 21:04	BKP	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	9/11/23 21:04	BKP	EPA 8260D	
Styrene	ND	ug/L	0.500	9/11/23 21:04	BKP	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	9/11/23 21:04	BKP	EPA 8260D	
Tetrachloroethene	ND	ug/L	0.500	9/11/23 21:04	BKP	EPA 8260D	
Toluene	ND	ug/L	0.500	9/11/23 21:04	BKP	EPA 8260D	
trans-1,2-Dichloroethene	ND	ug/L	0.500	9/11/23 21:04	BKP	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	9/11/23 21:04	BKP	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	9/11/23 21:04	BKP	EPA 8260D	
Trichlorofluoromethane	ND	ug/L	0.500	9/11/23 21:04	BKP	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	9/11/23 21:04	BKP	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*100%*		*70-130*	*9/11/23 21:04*	*BKP*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*93.4%*		*70-130*	*9/11/23 21:04*	*BKP*	*EPA 8260D*	
Surrogate: Toluene-d8	*96.0%*		*70-130*	*9/11/23 21:04*	*BKP*	*EPA 8260D*	

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Analytical Results Report

(Continued)

Sample Location:	03Q23L4MW10AW		
Lab/Sample Number:	MDI0255-03	Collect Date:	09/06/23 12:40
Date Received:	09/08/23 13:36	Collected By:	
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							

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Analytical Results Report

(Continued)

Sample Location: 03Q23L4MW09AW
Lab/Sample Number: MDI0255-04 Collect Date: 09/06/23 13:35
Date Received: 09/08/23 13:36 Collected By:
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Perchlorate	229	ug/L	25.0	9/18/23 11:52	GPB	EPA 6850	
Semivolatiles							
1,3,5-TNB	ND	ug/L	0.500	9/16/23 8:21	MER	EPA 8330B	
1,3-Dinitrobenzene	ND	ug/L	0.500	9/16/23 8:21	MER	EPA 8330B	
2,4,6-Trinitrotoluene	ND	ug/L	0.100	9/16/23 8:21	MER	EPA 8330B	
2,4-Dinitrotoluene	ND	ug/L	0.100	9/16/23 8:21	MER	EPA 8330B	
2,6-DNT	ND	ug/L	0.500	9/16/23 8:21	MER	EPA 8330B	
2-Amino-4,6-dinitrotoluene	ND	ug/L	0.500	9/16/23 8:21	MER	EPA 8330B	
2-Nitrotoluene	ND	ug/L	0.500	9/16/23 8:21	MER	EPA 8330B	
3-Nitrotoluene	ND	ug/L	0.500	9/16/23 8:21	MER	EPA 8330B	
4-Amino-2,6-dinitrotoluene	ND	ug/L	0.500	9/16/23 8:21	MER	EPA 8330B	
4-Nitrotoluene	ND	ug/L	0.500	9/16/23 8:21	MER	EPA 8330B	
HMX	1.20	ug/L	0.100	9/16/23 8:21	MER	EPA 8330B	
NB	ND	ug/L	0.500	9/16/23 8:21	MER	EPA 8330B	
RDX	3.25	ug/L	0.100	9/16/23 8:21	MER	EPA 8330B	
Tetryl	ND	ug/L	0.500	9/16/23 8:21	MER	EPA 8330B	
Surrogate: 1,2-Dinitrobenzene	*86.8%*		*70-130*	*9/16/23 8:21*	*MER*	*EPA 8330B*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	9/11/23 21:36	BKP	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	9/11/23 21:36	BKP	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	9/11/23 21:36	BKP	EPA 8260D	
1,1,2-Trichloroethane	ND	ug/L	0.500	9/11/23 21:36	BKP	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	9/11/23 21:36	BKP	EPA 8260D	
1,1-Dichloroethene	ND	ug/L	0.500	9/11/23 21:36	BKP	EPA 8260D	
1,1-dichloropropene	ND	ug/L	0.500	9/11/23 21:36	BKP	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	9/11/23 21:36	BKP	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	9/11/23 21:36	BKP	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	9/11/23 21:36	BKP	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	9/11/23 21:36	BKP	EPA 8260D	
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.500	9/11/23 21:36	BKP	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	ug/L	0.500	9/11/23 21:36	BKP	EPA 8260D	
1,2-Dichlorobenzene	ND	ug/L	0.500	9/11/23 21:36	BKP	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	9/11/23 21:36	BKP	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	9/11/23 21:36	BKP	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	9/11/23 21:36	BKP	EPA 8260D	
1,3-Dichlorobenzene	ND	ug/L	0.500	9/11/23 21:36	BKP	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	9/11/23 21:36	BKP	EPA 8260D	
1,4-Dichlorobenzene	ND	ug/L	0.500	9/11/23 21:36	BKP	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	9/11/23 21:36	BKP	EPA 8260D	
2-Chlorotoluene	ND	ug/L	0.500	9/11/23 21:36	BKP	EPA 8260D	
2-hexanone	ND	ug/L	2.50	9/11/23 21:36	BKP	EPA 8260D	
4-Chlorotoluene	ND	ug/L	0.500	9/11/23 21:36	BKP	EPA 8260D	
Acetone	ND	ug/L	2.50	9/11/23 21:36	BKP	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	9/11/23 21:36	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location:	03Q23L4MW09AW		
Lab/Sample Number:	MDI0255-04	Collect Date:	09/06/23 13:35
Date Received:	09/08/23 13:36	Collected By:	
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Benzene	ND	ug/L	0.500	9/11/23 21:36	BKP	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	9/11/23 21:36	BKP	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	9/11/23 21:36	BKP	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	9/11/23 21:36	BKP	EPA 8260D	
Bromoform	ND	ug/L	0.500	9/11/23 21:36	BKP	EPA 8260D	
Bromomethane	ND	ug/L	0.500	9/11/23 21:36	BKP	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	9/11/23 21:36	BKP	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	9/11/23 21:36	BKP	EPA 8260D	
Chlorobenzene	ND	ug/L	0.500	9/11/23 21:36	BKP	EPA 8260D	
Chloroethane	ND	ug/L	0.500	9/11/23 21:36	BKP	EPA 8260D	
Chloroform	ND	ug/L	0.500	9/11/23 21:36	BKP	EPA 8260D	
Chloromethane	ND	ug/L	0.500	9/11/23 21:36	BKP	EPA 8260D	
cis-1,2-dichloroethene	ND	ug/L	0.500	9/11/23 21:36	BKP	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	9/11/23 21:36	BKP	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	9/11/23 21:36	BKP	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	9/11/23 21:36	BKP	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	9/11/23 21:36	BKP	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	9/11/23 21:36	BKP	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	9/11/23 21:36	BKP	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	9/11/23 21:36	BKP	EPA 8260D	
m+p-Xylene	ND	ug/L	0.500	9/11/23 21:36	BKP	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	9/11/23 21:36	BKP	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	9/11/23 21:36	BKP	EPA 8260D	
Methylene chloride	ND	ug/L	2.50	9/11/23 21:36	BKP	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	9/11/23 21:36	BKP	EPA 8260D	
Naphthalene	ND	ug/L	0.500	9/11/23 21:36	BKP	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	9/11/23 21:36	BKP	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	9/11/23 21:36	BKP	EPA 8260D	
o-Xylene	ND	ug/L	0.500	9/11/23 21:36	BKP	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	9/11/23 21:36	BKP	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	9/11/23 21:36	BKP	EPA 8260D	
Styrene	ND	ug/L	0.500	9/11/23 21:36	BKP	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	9/11/23 21:36	BKP	EPA 8260D	
Tetrachloroethene	ND	ug/L	0.500	9/11/23 21:36	BKP	EPA 8260D	
Toluene	ND	ug/L	0.500	9/11/23 21:36	BKP	EPA 8260D	
trans-1,2-Dichloroethene	ND	ug/L	0.500	9/11/23 21:36	BKP	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	9/11/23 21:36	BKP	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	9/11/23 21:36	BKP	EPA 8260D	
Trichlorofluoromethane	ND	ug/L	0.500	9/11/23 21:36	BKP	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	9/11/23 21:36	BKP	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*100%*		*70-130*	*9/11/23 21:36*	*BKP*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*90.7%*		*70-130*	*9/11/23 21:36*	*BKP*	*EPA 8260D*	
Surrogate: Toluene-d8	*96.5%*		*70-130*	*9/11/23 21:36*	*BKP*	*EPA 8260D*	

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Analytical Results Report

(Continued)

Sample Location:	03Q23L4MW09AW		
Lab/Sample Number:	MDI0255-04	Collect Date:	09/06/23 13:35
Date Received:	09/08/23 13:36	Collected By:	
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							

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Analytical Results Report

(Continued)

Sample Location: 03Q23L4MW09BW
Lab/Sample Number: MDI0255-05 Collect Date: 09/06/23 14:30
Date Received: 09/08/23 13:36 Collected By:
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Perchlorate	201	ug/L	25.0	9/18/23 11:59	GPB	EPA 6850	
Semivolatiles							
1,3,5-TNB	ND	ug/L	0.500	9/16/23 8:59	MER	EPA 8330B	
1,3-Dinitrobenzene	ND	ug/L	0.500	9/16/23 8:59	MER	EPA 8330B	
2,4,6-Trinitrotoluene	ND	ug/L	0.100	9/16/23 8:59	MER	EPA 8330B	
2,4-Dinitrotoluene	ND	ug/L	0.100	9/16/23 8:59	MER	EPA 8330B	
2,6-DNT	ND	ug/L	0.500	9/16/23 8:59	MER	EPA 8330B	
2-Amino-4,6-dinitrotoluene	ND	ug/L	0.500	9/16/23 8:59	MER	EPA 8330B	
2-Nitrotoluene	ND	ug/L	0.500	9/16/23 8:59	MER	EPA 8330B	
3-Nitrotoluene	ND	ug/L	0.500	9/16/23 8:59	MER	EPA 8330B	
4-Amino-2,6-dinitrotoluene	ND	ug/L	0.500	9/16/23 8:59	MER	EPA 8330B	
4-Nitrotoluene	ND	ug/L	0.500	9/16/23 8:59	MER	EPA 8330B	
HMX	1.63	ug/L	0.100	9/16/23 8:59	MER	EPA 8330B	
NB	ND	ug/L	0.500	9/16/23 8:59	MER	EPA 8330B	
RDX	20.8	ug/L	0.100	9/16/23 8:59	MER	EPA 8330B	
Tetryl	ND	ug/L	0.500	9/16/23 8:59	MER	EPA 8330B	
Surrogate: 1,2-Dinitrobenzene	*88.4%*		*70-130*	*9/16/23 8:59*	*MER*	*EPA 8330B*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	9/11/23 22:09	BKP	EPA 8260D	
1,1,1-Trichloroethane	1.83	ug/L	0.500	9/11/23 22:09	BKP	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	9/11/23 22:09	BKP	EPA 8260D	
1,1,2-Trichloroethane	ND	ug/L	0.500	9/11/23 22:09	BKP	EPA 8260D	
1,1-Dichloroethane	4.17	ug/L	0.500	9/11/23 22:09	BKP	EPA 8260D	
1,1-Dichloroethene	2.41	ug/L	0.500	9/11/23 22:09	BKP	EPA 8260D	
1,1-dichloropropene	ND	ug/L	0.500	9/11/23 22:09	BKP	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	9/11/23 22:09	BKP	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	9/11/23 22:09	BKP	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	9/11/23 22:09	BKP	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	9/11/23 22:09	BKP	EPA 8260D	
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.500	9/11/23 22:09	BKP	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	ug/L	0.500	9/11/23 22:09	BKP	EPA 8260D	
1,2-Dichlorobenzene	ND	ug/L	0.500	9/11/23 22:09	BKP	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	9/11/23 22:09	BKP	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	9/11/23 22:09	BKP	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	9/11/23 22:09	BKP	EPA 8260D	
1,3-Dichlorobenzene	ND	ug/L	0.500	9/11/23 22:09	BKP	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	9/11/23 22:09	BKP	EPA 8260D	
1,4-Dichlorobenzene	ND	ug/L	0.500	9/11/23 22:09	BKP	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	9/11/23 22:09	BKP	EPA 8260D	
2-Chlorotoluene	ND	ug/L	0.500	9/11/23 22:09	BKP	EPA 8260D	
2-hexanone	ND	ug/L	2.50	9/11/23 22:09	BKP	EPA 8260D	
4-Chlorotoluene	ND	ug/L	0.500	9/11/23 22:09	BKP	EPA 8260D	
Acetone	ND	ug/L	2.50	9/11/23 22:09	BKP	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	9/11/23 22:09	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location:	03Q23L4MW09BW		
Lab/Sample Number:	MDI0255-05	Collect Date:	09/06/23 14:30
Date Received:	09/08/23 13:36	Collected By:	
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Benzene	ND	ug/L	0.500	9/11/23 22:09	BKP	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	9/11/23 22:09	BKP	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	9/11/23 22:09	BKP	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	9/11/23 22:09	BKP	EPA 8260D	
Bromoform	ND	ug/L	0.500	9/11/23 22:09	BKP	EPA 8260D	
Bromomethane	ND	ug/L	0.500	9/11/23 22:09	BKP	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	9/11/23 22:09	BKP	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	9/11/23 22:09	BKP	EPA 8260D	
Chlorobenzene	ND	ug/L	0.500	9/11/23 22:09	BKP	EPA 8260D	
Chloroethane	ND	ug/L	0.500	9/11/23 22:09	BKP	EPA 8260D	
Chloroform	ND	ug/L	0.500	9/11/23 22:09	BKP	EPA 8260D	
Chloromethane	ND	ug/L	0.500	9/11/23 22:09	BKP	EPA 8260D	
cis-1,2-dichloroethene	ND	ug/L	0.500	9/11/23 22:09	BKP	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	9/11/23 22:09	BKP	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	9/11/23 22:09	BKP	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	9/11/23 22:09	BKP	EPA 8260D	
Dichlorodifluoromethane	8.49	ug/L	0.500	9/11/23 22:09	BKP	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	9/11/23 22:09	BKP	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	9/11/23 22:09	BKP	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	9/11/23 22:09	BKP	EPA 8260D	
m+p-Xylene	ND	ug/L	0.500	9/11/23 22:09	BKP	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	9/11/23 22:09	BKP	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	9/11/23 22:09	BKP	EPA 8260D	
Methylene chloride	ND	ug/L	2.50	9/11/23 22:09	BKP	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	9/11/23 22:09	BKP	EPA 8260D	
Naphthalene	ND	ug/L	0.500	9/11/23 22:09	BKP	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	9/11/23 22:09	BKP	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	9/11/23 22:09	BKP	EPA 8260D	
o-Xylene	ND	ug/L	0.500	9/11/23 22:09	BKP	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	9/11/23 22:09	BKP	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	9/11/23 22:09	BKP	EPA 8260D	
Styrene	ND	ug/L	0.500	9/11/23 22:09	BKP	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	9/11/23 22:09	BKP	EPA 8260D	
Tetrachloroethene	ND	ug/L	0.500	9/11/23 22:09	BKP	EPA 8260D	
Toluene	ND	ug/L	0.500	9/11/23 22:09	BKP	EPA 8260D	
trans-1,2-Dichloroethene	ND	ug/L	0.500	9/11/23 22:09	BKP	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	9/11/23 22:09	BKP	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	9/11/23 22:09	BKP	EPA 8260D	
Trichlorofluoromethane	ND	ug/L	0.500	9/11/23 22:09	BKP	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	9/11/23 22:09	BKP	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*100%*		*70-130*	*9/11/23 22:09*	*BKP*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*90.4%*		*70-130*	*9/11/23 22:09*	*BKP*	*EPA 8260D*	
Surrogate: Toluene-d8	*96.6%*		*70-130*	*9/11/23 22:09*	*BKP*	*EPA 8260D*	

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Analytical Results Report

(Continued)

Sample Location:	03Q23L4MW09BW		
Lab/Sample Number:	MDI0255-05	Collect Date:	09/06/23 14:30
Date Received:	09/08/23 13:36	Collected By:	
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							

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Analytical Results Report

(Continued)

Sample Location: 03Q23L4MW02BW
Lab/Sample Number: MDI0255-06 Collect Date: 09/06/23 16:00
Date Received: 09/08/23 13:36 Collected By:
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Perchlorate	309	ug/L	25.0	9/18/23 12:06	GPB	EPA 6850	
Semivolatiles							
1,3,5-TNB	ND	ug/L	0.500	9/16/23 9:37	MER	EPA 8330B	
1,3-Dinitrobenzene	ND	ug/L	0.500	9/16/23 9:37	MER	EPA 8330B	
2,4,6-Trinitrotoluene	0.135	ug/L	0.100	9/16/23 9:37	MER	EPA 8330B	
2,4-Dinitrotoluene	0.251	ug/L	0.100	9/16/23 9:37	MER	EPA 8330B	
2,6-DNT	ND	ug/L	0.500	9/16/23 9:37	MER	EPA 8330B	
2-Amino-4,6-dinitrotoluene	ND	ug/L	0.500	9/16/23 9:37	MER	EPA 8330B	
2-Nitrotoluene	ND	ug/L	0.500	9/16/23 9:37	MER	EPA 8330B	
3-Nitrotoluene	ND	ug/L	0.500	9/16/23 9:37	MER	EPA 8330B	
4-Amino-2,6-dinitrotoluene	ND	ug/L	0.500	9/16/23 9:37	MER	EPA 8330B	
4-Nitrotoluene	ND	ug/L	0.500	9/16/23 9:37	MER	EPA 8330B	
HMX	4.32	ug/L	0.100	9/16/23 9:37	MER	EPA 8330B	
NB	ND	ug/L	0.500	9/16/23 9:37	MER	EPA 8330B	
RDX	18.0	ug/L	0.100	9/16/23 9:37	MER	EPA 8330B	
Tetryl	ND	ug/L	0.500	9/16/23 9:37	MER	EPA 8330B	
Surrogate: 1,2-Dinitrobenzene	*91.5%*		*70-130*	*9/16/23 9:37*	*MER*	*EPA 8330B*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	9/11/23 22:41	BKP	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	9/11/23 22:41	BKP	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	9/11/23 22:41	BKP	EPA 8260D	
1,1,2-Trichloroethane	ND	ug/L	0.500	9/11/23 22:41	BKP	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	9/11/23 22:41	BKP	EPA 8260D	
1,1-Dichloroethene	ND	ug/L	0.500	9/11/23 22:41	BKP	EPA 8260D	
1,1-dichloropropene	ND	ug/L	0.500	9/11/23 22:41	BKP	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	9/11/23 22:41	BKP	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	9/11/23 22:41	BKP	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	9/11/23 22:41	BKP	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	9/11/23 22:41	BKP	EPA 8260D	
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.500	9/11/23 22:41	BKP	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	ug/L	0.500	9/11/23 22:41	BKP	EPA 8260D	
1,2-Dichlorobenzene	ND	ug/L	0.500	9/11/23 22:41	BKP	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	9/11/23 22:41	BKP	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	9/11/23 22:41	BKP	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	9/11/23 22:41	BKP	EPA 8260D	
1,3-Dichlorobenzene	ND	ug/L	0.500	9/11/23 22:41	BKP	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	9/11/23 22:41	BKP	EPA 8260D	
1,4-Dichlorobenzene	ND	ug/L	0.500	9/11/23 22:41	BKP	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	9/11/23 22:41	BKP	EPA 8260D	
2-Chlorotoluene	ND	ug/L	0.500	9/11/23 22:41	BKP	EPA 8260D	
2-hexanone	ND	ug/L	2.50	9/11/23 22:41	BKP	EPA 8260D	
4-Chlorotoluene	ND	ug/L	0.500	9/11/23 22:41	BKP	EPA 8260D	
Acetone	ND	ug/L	2.50	9/11/23 22:41	BKP	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	9/11/23 22:41	BKP	EPA 8260D	

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Analytical Results Report

(Continued)

Sample Location: 03Q23L4MW02BW
Lab/Sample Number: MDI0255-06 Collect Date: 09/06/23 16:00
Date Received: 09/08/23 13:36 Collected By:
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Benzene	ND	ug/L	0.500	9/11/23 22:41	BKP	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	9/11/23 22:41	BKP	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	9/11/23 22:41	BKP	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	9/11/23 22:41	BKP	EPA 8260D	
Bromoform	ND	ug/L	0.500	9/11/23 22:41	BKP	EPA 8260D	
Bromomethane	ND	ug/L	0.500	9/11/23 22:41	BKP	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	9/11/23 22:41	BKP	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	9/11/23 22:41	BKP	EPA 8260D	
Chlorobenzene	ND	ug/L	0.500	9/11/23 22:41	BKP	EPA 8260D	
Chloroethane	ND	ug/L	0.500	9/11/23 22:41	BKP	EPA 8260D	
Chloroform	ND	ug/L	0.500	9/11/23 22:41	BKP	EPA 8260D	
Chloromethane	ND	ug/L	0.500	9/11/23 22:41	BKP	EPA 8260D	
cis-1,2-dichloroethene	ND	ug/L	0.500	9/11/23 22:41	BKP	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	9/11/23 22:41	BKP	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	9/11/23 22:41	BKP	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	9/11/23 22:41	BKP	EPA 8260D	
Dichlorodifluoromethane	0.930	ug/L	0.500	9/11/23 22:41	BKP	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	9/11/23 22:41	BKP	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	9/11/23 22:41	BKP	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	9/11/23 22:41	BKP	EPA 8260D	
m+p-Xylene	ND	ug/L	0.500	9/11/23 22:41	BKP	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	9/11/23 22:41	BKP	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	9/11/23 22:41	BKP	EPA 8260D	
Methylene chloride	ND	ug/L	2.50	9/11/23 22:41	BKP	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	9/11/23 22:41	BKP	EPA 8260D	
Naphthalene	ND	ug/L	0.500	9/11/23 22:41	BKP	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	9/11/23 22:41	BKP	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	9/11/23 22:41	BKP	EPA 8260D	
o-Xylene	ND	ug/L	0.500	9/11/23 22:41	BKP	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	9/11/23 22:41	BKP	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	9/11/23 22:41	BKP	EPA 8260D	
Styrene	ND	ug/L	0.500	9/11/23 22:41	BKP	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	9/11/23 22:41	BKP	EPA 8260D	
Tetrachloroethene	ND	ug/L	0.500	9/11/23 22:41	BKP	EPA 8260D	
Toluene	ND	ug/L	0.500	9/11/23 22:41	BKP	EPA 8260D	
trans-1,2-Dichloroethene	ND	ug/L	0.500	9/11/23 22:41	BKP	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	9/11/23 22:41	BKP	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	9/11/23 22:41	BKP	EPA 8260D	
Trichlorofluoromethane	ND	ug/L	0.500	9/11/23 22:41	BKP	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	9/11/23 22:41	BKP	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*100%*		*70-130*	*9/11/23 22:41*	*BKP*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*90.0%*		*70-130*	*9/11/23 22:41*	*BKP*	*EPA 8260D*	
Surrogate: Toluene-d8	*96.9%*		*70-130*	*9/11/23 22:41*	*BKP*	*EPA 8260D*	

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Analytical Results Report

(Continued)

Sample Location:	03Q23L4MW02BW		
Lab/Sample Number:	MDI0255-06	Collect Date:	09/06/23 16:00
Date Received:	09/08/23 13:36	Collected By:	
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							

Authorized Signature,

Justin Doty For Todd Taruscio, Laboratory Manager

L4	The associated blank spike recovery was below method acceptance limits. This analyte was not detected in the sample.
L5	The associated blank spike recovery was above laboratory/method acceptance limits. This analyte was not detected in the sample
PQL	Practical Quantitation Limit
ND	Not Detected
MCL	EPA's Maximum Contaminant Level
Dry	Sample results reported on a dry weight basis
*	Not a state-certified analyte
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was spiked or duplicated.

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Certifications

Code	Description	Facility	Number
DOE WA	Washington Department of Ecology	Anatek-Moscow, ID	C595

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Quality Control Data

Inorganics

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0478 - Perchlorate										
Blank (BDI0478-BLK1)					Prepared: 9/14/2023 Analyzed: 9/18/2023					
Perchlorate	ND		0.500	ug/L						
LCS (BDI0478-BS1)					Prepared: 9/14/2023 Analyzed: 9/18/2023					
Perchlorate	1.14		0.500	ug/L	1.00		114	80-120		
Matrix Spike (BDI0478-MS1)		**Source: MDI0255-01**			Prepared: 9/14/2023 Analyzed: 9/18/2023					
Perchlorate	950		25.0	ug/L	250	665	114	80-120		
Matrix Spike Dup (BDI0478-MSD1)		**Source: MDI0255-01**			Prepared: 9/14/2023 Analyzed: 9/18/2023					
Perchlorate	910		25.0	ug/L	250	665	98.0	80-120	4.30	20

Quality Control Data

Semivolatiles

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0389 - Explosives										
Blank (BDI0389-BLK1)					Prepared: 9/13/2023 Analyzed: 9/16/2023					
HMX	ND		0.100	ug/L						
RDX	ND		0.100	ug/L						
1,3,5-TNB	ND		0.500	ug/L						
1,3-Dinitrobenzene	ND		0.500	ug/L						
NB	ND		0.500	ug/L						
2,4,6-Trinitrotoluene	ND		0.100	ug/L						
Tetryl	ND		0.500	ug/L						
2,6-DNT	ND		0.500	ug/L						
2,4-Dinitrotoluene	ND		0.100	ug/L						
2-Nitrotoluene	ND		0.500	ug/L						
4-Nitrotoluene	ND		0.500	ug/L						
4-Amino-2,6-dinitrotoluene	ND		0.500	ug/L						
3-Nitrotoluene	ND		0.500	ug/L						
2-Amino-4,6-dinitrotoluene	ND		0.500	ug/L						
Surrogate: 1,2-Dinitrobenzene			*8.06*	*ug/L*	*10.0*		*80.6*	*70-130*		
LCS (BDI0389-BS1)					Prepared: 9/13/2023 Analyzed: 9/16/2023					
HMX	4.68		0.100	ug/L	5.00		93.5	70-130		
RDX	4.96		0.100	ug/L	5.00		99.2	70-130		
1,3,5-TNB	4.26		0.500	ug/L	5.00		85.2	70-130		
1,3-Dinitrobenzene	4.38		0.500	ug/L	5.00		87.6	70-130		
NB	4.44		0.500	ug/L	5.00		88.7	70-130		
2,4,6-Trinitrotoluene	4.36		0.100	ug/L	5.00		87.2	70-130		
Tetryl	4.34		0.500	ug/L	5.00		86.9	70-130		
2,6-DNT	4.46		0.500	ug/L	5.00		89.3	70-130		
2,4-Dinitrotoluene	4.40		0.100	ug/L	5.00		87.9	70-130		
2-Nitrotoluene	4.82		0.500	ug/L	5.00		96.3	70-130		
4-Nitrotoluene	3.86		0.500	ug/L	5.00		77.2	70-130		
4-Amino-2,6-dinitrotoluene	4.22		0.500	ug/L	5.00		84.5	70-130		
3-Nitrotoluene	4.23		0.500	ug/L	5.00		84.7	70-130		
2-Amino-4,6-dinitrotoluene	4.44		0.500	ug/L	5.00		88.8	70-130		

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Quality Control Data
(Continued)

Semivolatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0389 - Explosives (Continued)										
LCS (BDI0389-BS1)					Prepared: 9/13/2023 Analyzed: 9/16/2023					
Surrogate: 1,2-Dinitrobenzene		*L4*	*6.81*	*ug/L*	*10.0*		*68.1*	*70-130*		
LCS Dup (BDI0389-BSD1)					Prepared: 9/13/2023 Analyzed: 9/16/2023					
HMX	4.69		0.100	ug/L	5.00		93.7	70-130	0.245	25
RDX	4.96		0.100	ug/L	5.00		99.3	70-130	0.0952	25
1,3,5-TNB	4.25		0.500	ug/L	5.00		85.1	70-130	0.0952	25
1,3-Dinitrobenzene	4.35		0.500	ug/L	5.00		86.9	70-130	0.815	25
NB	4.35		0.500	ug/L	5.00		87.0	70-130	1.97	25
2,4,6-Trinitrotoluene	4.38		0.100	ug/L	5.00		87.7	70-130	0.572	25
Tetryl	4.02		0.500	ug/L	5.00		80.4	70-130	7.73	25
2,6-DNT	4.78		0.500	ug/L	5.00		95.7	70-130	6.92	25
2,4-Dinitrotoluene	4.39		0.100	ug/L	5.00		87.7	70-130	0.197	25
2-Nitrotoluene	4.63		0.500	ug/L	5.00		92.5	70-130	4.07	25
4-Nitrotoluene	3.61		0.500	ug/L	5.00		72.2	70-130	6.74	25
4-Amino-2,6-dinitrotoluene	4.48		0.500	ug/L	5.00		89.6	70-130	5.87	25
3-Nitrotoluene	4.49		0.500	ug/L	5.00		89.8	70-130	5.87	25
2-Amino-4,6-dinitrotoluene	8.85	L5	0.500	ug/L	5.00		177	70-130	66.4	25
Surrogate: 1,2-Dinitrobenzene		*L4*	*5.89*	*ug/L*	*10.0*		*58.9*	*70-130*		

Quality Control Data
(Continued)

Volatiles

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0272 - VOC										
Blank (BDI0272-BLK1)					Prepared & Analyzed: 9/11/2023					
Methylene Chloride (Dichloromethane)	ND		2.50	ug/L						
Methyl isobutyl ketone (MIBK)	ND		2.50	ug/L						
Ethylbenzene	ND		0.500	ug/L						
Methyl ethyl ketone (MEK)	ND		2.50	ug/L						
m/p Xylenes (MCL for total)	ND		0.500	ug/L						
Isopropylbenzene	ND		0.500	ug/L						
Hexachlorobutadiene	ND		0.500	ug/L						
Dichlorodifluoromethane	ND		0.500	ug/L						
Dibromomethane	ND		0.500	ug/L						
Dibromochloromethane	ND		0.500	ug/L						
cis-1,3-Dichloropropene	ND		0.500	ug/L						
cis-1,2-Dichloroethylene	ND		0.500	ug/L						
Chloromethane	ND		0.500	ug/L						
methyl-t-butyl ether (MTBE)	0.810		0.500	ug/L						
Chloroethane	ND		0.500	ug/L						
Chloroform	ND		0.500	ug/L						
Tetrachloroethylene	ND		0.500	ug/L						
Chlorobenzene (Monochlorobenzene)	ND		0.500	ug/L						
Vinyl Chloride	ND		0.500	ug/L						
Trichloroethene	ND		0.500	ug/L						
trans-1,3-Dichloropropene	ND		0.500	ug/L						
trans-1,2 Dichloroethylene	ND		0.500	ug/L						

Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0272 - VOC (Continued)										
Blank (BDI0272-BLK1)					Prepared & Analyzed: 9/11/2023					
Trichloroflouromethane	ND		0.500	ug/L						
Toluene	ND		0.500	ug/L						
Naphthalene	ND		0.500	ug/L						
tert-Butylbenzene	ND		0.500	ug/L						
Styrene	ND		0.500	ug/L						
sec-Butylbenzene	ND		0.500	ug/L						
p-isopropyltoluene	ND		0.500	ug/L						
o-Xylene (MCL for total)	ND		0.500	ug/L						
n-Propylbenzene	ND		0.500	ug/L						
n-Butylbenzene	ND		0.500	ug/L						
1,2,3-Trichlorobenzene	ND		0.500	ug/L						
1,2-Dichloroethane	ND		0.500	ug/L						
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	ND		0.500	ug/L						
EDB (screening)	ND		0.500	ug/L						
DBCP (screening)	ND		0.500	ug/L						
1,2,4-Trimethylbenzene	ND		0.500	ug/L						
1,2-Dichloropropane	ND		0.500	ug/L						
1,2,3-Trichloropropane	ND		0.500	ug/L						
1,1-Dichloroethane	ND		0.500	ug/L						
1,1-Dichloropropene	ND		0.500	ug/L						
1,1-Dichloroethylene	ND		0.500	ug/L						
Carbon Tetrachloride	ND		0.500	ug/L						
1,1,2-Trichlorethane	ND		0.500	ug/L						
Acetone	ND		2.50	ug/L						
1,1,1-Trichloroethane	ND		0.500	ug/L						
1,1,1,2-Tetrachloroethane	ND		0.500	ug/L						
1,2,4-Trichlorobenzene	ND		0.500	ug/L						
Bromodichloromethane	ND		0.500	ug/L						
1,1,2,2-Tetrachloroethane	ND		0.500	ug/L						
Bromomethane	ND		0.500	ug/L						
1,3,5-Trimethylbenzene	ND		0.500	ug/L						
Carbon disulfide	ND		0.500	ug/L						
Bromoform	ND		0.500	ug/L						
Bromochloromethane	ND		0.500	ug/L						
Bromobenzene	ND		0.500	ug/L						
Benzene	ND		0.500	ug/L						
Acrylonitrile	ND		0.500	ug/L						
2,2-Dichloropropane	ND		0.500	ug/L						
p-Chlorotoluene	ND		0.500	ug/L						
2-hexanone	ND		2.50	ug/L						
o-Chlorotoluene	ND		0.500	ug/L						
m-Dichlorobenzene	ND		0.500	ug/L						
1,3-Dichloropropane	ND		0.500	ug/L						
1,4-Dichlorobenzene (para-Dichlorobenzene)	ND		0.500	ug/L						
Surrogate: 4-Bromofluorobenzene			*19.6*	*ug/L*	*20.0*		*98.1*	*70-130*		
Surrogate: Toluene-d8			*19.3*	*ug/L*	*20.0*		*96.4*	*70-130*		
Surrogate: 1,2-Dichlorobenzene-d4			*20.0*	*ug/L*	*20.0*		*100*	*70-130*		

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Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0272 - VOC (Continued)										
LCS (BDI0272-BS1)					Prepared & Analyzed: 9/11/2023					
1,2-Dichloropropane	10.6		0.500	ug/L	10.0		106	80-120		
1,3,5-Trimethylbenzene	11.9		0.500	ug/L	10.0		119	80-121		
m-Dichlorobenzene	10.2		0.500	ug/L	10.0		102	80-120		
1,3-Dichloropropane	10.9		0.500	ug/L	10.0		109	80-120		
Acrylonitrile	10.5		0.500	ug/L	10.0		105	73-131		
2-hexanone	9.75		2.50	ug/L	10.0		97.5	65-140		
Benzene	10.6		0.500	ug/L	10.0		106	80-120		
p-Chlorotoluene	11.7		0.500	ug/L	10.0		117	80-124		
1,2-Dichloroethane	10.3		0.500	ug/L	10.0		103	80-120		
1,1-Dichloropropene	10.9		0.500	ug/L	10.0		109	80-120		
Bromobenzene	10.8		0.500	ug/L	10.0		108	80-120		
2,2-Dichloropropane	9.80		0.500	ug/L	10.0		98.0	80-120		
1,1-Dichloroethylene	9.95		0.500	ug/L	10.0		99.5	70-129		
o-Chlorotoluene	11.5		0.500	ug/L	10.0		115	80-120		
Bromochloromethane	10.8		0.500	ug/L	10.0		108	80-120		
1,1,1,2-Tetrachloroethane	10.6		0.500	ug/L	10.0		106	80-120		
1,1,1-Trichloroethane	10.1		0.500	ug/L	10.0		101	80-120		
1,1,2,2-Tetrachloroethane	10.8		0.500	ug/L	10.0		108	77-123		
1,2,3-Trichloropropane	11.3		0.500	ug/L	10.0		113	80-120		
1,1-Dichloroethane	10.4		0.500	ug/L	10.0		104	80-120		
1,2,3-Trichlorobenzene	11.0		0.500	ug/L	10.0		110	78-120		
1,2,4-Trichlorobenzene	10.2		0.500	ug/L	10.0		102	80-120		
1,2,4-Trimethylbenzene	11.9		0.500	ug/L	10.0		119	80-120		
DBCP (screening)	9.71		0.500	ug/L	10.0		97.1	71-128		
EDB (screening)	10.9		0.500	ug/L	10.0		109	70-130		
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	10.0		0.500	ug/L	10.0		100	80-120		
1,1,2-Trichlorethane	10.7		0.500	ug/L	10.0		107	80-120		
Toluene	10.6		0.500	ug/L	10.0		106	80-120		
n-Butylbenzene	10.4		0.500	ug/L	10.0		104	74-122		
n-Propylbenzene	11.3		0.500	ug/L	10.0		113	80-120		
o-Xylene (MCL for total)	11.4		0.500	ug/L	10.0		114	80-120		
p-isopropyltoluene	10.8		0.500	ug/L	10.0		108	80-120		
sec-Butylbenzene	11.1		0.500	ug/L	10.0		111	80-120		
Styrene	12.2	L5	0.500	ug/L	10.0		122	80-120		
Naphthalene	10.0		0.500	ug/L	10.0		100	66-133		
Tetrachloroethylene	10.1		0.500	ug/L	10.0		101	80-120		
Trichloroflouromethane	10.1		0.500	ug/L	10.0		101	61-140		
trans-1,2 Dichloroethylene	10.7		0.500	ug/L	10.0		107	80-120		
trans-1,3-Dichloropropene	10.2		0.500	ug/L	10.0		102	69-130		
Trichloroethene	10.2		0.500	ug/L	10.0		102	80-120		
Vinyl Chloride	10.0		0.500	ug/L	10.0		100	75-120		
1,4-Dichlorobenzene (para-Dichlorobenzene)	10.2		0.500	ug/L	10.0		102	80-120		
Bromodichloromethane	10.1		0.500	ug/L	10.0		101	80-120		
tert-Butylbenzene	11.0		0.500	ug/L	10.0		110	80-120		
cis-1,2-Dichloroethylene	10.7		0.500	ug/L	10.0		107	80-120		
Carbon disulfide	10.0		0.500	ug/L	10.0		100	80-120		
Bromoform	10.3		0.500	ug/L	10.0		103	68-133		
Chlorobenzene (Monochlorobenzene)	10.5		0.500	ug/L	10.0		105	80-120		
methyl-t-butyl ether (MTBE)	10.0		0.500	ug/L	10.0		100	71-130		
Chloroform	11.1		0.500	ug/L	10.0		111	80-120		

Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0272 - VOC (Continued)										
LCS (BDI0272-BS1)					Prepared & Analyzed: 9/11/2023					
Carbon Tetrachloride	10.1		0.500	ug/L	10.0		101	80-120		
cis-1,3-Dichloropropene	9.78		0.500	ug/L	10.0		97.8	79-123		
Dibromochloromethane	10.4		0.500	ug/L	10.0		104	80-121		
Dibromomethane	10.6		0.500	ug/L	10.0		106	80-120		
Dichlorodifluoromethane	8.96		0.500	ug/L	10.0		89.6	57-130		
Ethylbenzene	11.0		0.500	ug/L	10.0		110	80-120		
Hexachlorobutadiene	10.2		0.500	ug/L	10.0		102	80-120		
Isopropylbenzene	11.1		0.500	ug/L	10.0		111	80-120		
m/p Xylenes (MCL for total)	22.7		0.500	ug/L	20.0		114	80-120		
Methyl ethyl ketone (MEK)	9.63		2.50	ug/L	10.0		96.3	55-154		
Methyl isobutyl ketone (MIBK)	10.0		2.50	ug/L	10.0		100	70-136		
Chloroethane	10.9		0.500	ug/L	10.0		109	78-120		
Surrogate: 4-Bromofluorobenzene			*20.6*	*ug/L*	*20.0*		*103*	*70-130*		
Surrogate: Toluene-d8			*20.4*	*ug/L*	*20.0*		*102*	*70-130*		
Surrogate: 1,2-Dichlorobenzene-d4			*20.0*	*ug/L*	*20.0*		*100*	*70-130*		
Matrix Spike (BDI0272-MS1)		**Source: MDI0255-02**			Prepared & Analyzed: 9/11/2023					
Methyl isobutyl ketone (MIBK)	8.33		2.50	ug/L	10.0	ND	83.3	53-167		
Methyl ethyl ketone (MEK)	9.22		2.50	ug/L	10.0	ND	92.2	47-165		
m/p Xylenes (MCL for total)	18.6		0.500	ug/L	20.0	ND	93.2	57-130		
Isopropylbenzene	9.77		0.500	ug/L	10.0	ND	97.7	70-130		
Hexachlorobutadiene	10.3		0.500	ug/L	10.0	ND	103	70-130		
Ethylbenzene	9.68		0.500	ug/L	10.0	ND	96.8	70-130		
Dichlorodifluoromethane	22.9		0.500	ug/L	10.0	15.5	73.6	57-136		
Dibromomethane	9.19		0.500	ug/L	10.0	ND	91.9	70-130		
Dibromochloromethane	8.46		0.500	ug/L	10.0	ND	84.6	70-130		
cis-1,3-Dichloropropene	7.92		0.500	ug/L	10.0	ND	79.2	74-124		
cis-1,2-Dichloroethylene	9.31		0.500	ug/L	10.0	ND	93.1	70-130		
Chloroform	10.1		0.500	ug/L	10.0	ND	101	70-130		
Chlorobenzene (Monochlorobenzene)	8.79		0.500	ug/L	10.0	ND	87.9	70-130		
tert-Butylbenzene	10.3		0.500	ug/L	10.0	ND	103	70-130		
Chloroethane	11.1		0.500	ug/L	10.0	ND	111	68-138		
Styrene	9.96		0.500	ug/L	10.0	ND	99.6	30-130		
1,2-Dichloroethane	9.06		0.500	ug/L	10.0	ND	90.6	70-130		
Carbon Tetrachloride	10.4		0.500	ug/L	10.0	ND	104	70-130		
Trichloroethene	9.35		0.500	ug/L	10.0	ND	93.5	70-130		
trans-1,3-Dichloropropene	7.90		0.500	ug/L	10.0	ND	79.0	61-131		
trans-1,2 Dichloroethylene	9.77		0.500	ug/L	10.0	ND	97.7	70-130		
sec-Butylbenzene	10.6		0.500	ug/L	10.0	ND	106	70-130		
Tetrachloroethylene	9.54		0.500	ug/L	10.0	ND	95.4	70-130		
methyl-t-butyl ether (MTBE)	7.85		0.500	ug/L	10.0	ND	78.5	57-138		
Vinyl Chloride	10.3		0.500	ug/L	10.0	ND	103	70-130		
p-isopropyltoluene	10.1		0.500	ug/L	10.0	ND	101	70-130		
o-Xylene (MCL for total)	9.31		0.500	ug/L	10.0	ND	93.1	62-127		
n-Propylbenzene	10.4		0.500	ug/L	10.0	ND	104	70-130		
n-Butylbenzene	10.3		0.500	ug/L	10.0	ND	103	67-130		
Naphthalene	7.46		0.500	ug/L	10.0	ND	74.6	56-147		
Toluene	9.65		0.500	ug/L	10.0	ND	96.5	70-130		
1,1-Dichloropropene	10.7		0.500	ug/L	10.0	ND	107	70-130		
1,3,5-Trimethylbenzene	10.5		0.500	ug/L	10.0	ND	105	40-140		

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Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0272 - VOC (Continued)										
Matrix Spike (BDI0272-MS1)	**Source: MDI0255-02**				Prepared & Analyzed: 9/11/2023					
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	8.96		0.500	ug/L	10.0	ND	89.6	70-130		
EDB (screening)	8.67		0.500	ug/L	10.0	ND	86.7	70-130		
DBCP (screening)	8.33		0.500	ug/L	10.0	ND	83.3	55-146		
1,2,4-Trimethylbenzene	10.5		0.500	ug/L	10.0	ND	105	40-140		
1,2,4-Trichlorobenzene	7.91		0.500	ug/L	10.0	ND	79.1	70-130		
1,2,3-Trichlorobenzene	8.73		0.500	ug/L	10.0	ND	87.3	67-134		
1,2-Dichloropropane	9.15		0.500	ug/L	10.0	ND	91.5	70-130		
1,1-Dichloroethylene	13.3		0.500	ug/L	10.0	5.07	82.0	70-130		
1,1-Dichloroethane	14.1		0.500	ug/L	10.0	5.61	84.9	70-130		
1,1,2-Trichlorethane	8.77		0.500	ug/L	10.0	ND	87.7	70-130		
1,1,2,2-Tetrachloroethane	9.32		0.500	ug/L	10.0	ND	93.2	67-136		
1,1,1-Trichloroethane	12.4		0.500	ug/L	10.0	2.85	95.9	70-130		
1,1,1,2-Tetrachloroethane	8.92		0.500	ug/L	10.0	ND	89.2	70-130		
1,2,3-Trichloropropane	9.31		0.500	ug/L	10.0	ND	93.1	69-137		
2-hexanone	7.86		2.50	ug/L	10.0	ND	78.6	43-175		
Bromoform	8.26		0.500	ug/L	10.0	ND	82.6	59-140		
Bromodichloromethane	8.94		0.500	ug/L	10.0	ND	89.4	70-130		
Bromochloromethane	9.30		0.500	ug/L	10.0	ND	93.0	70-130		
Bromobenzene	9.02		0.500	ug/L	10.0	ND	90.2	70-130		
Benzene	9.69		0.500	ug/L	10.0	ND	96.9	70-130		
Acrylonitrile	8.87		0.500	ug/L	10.0	ND	88.7	65-137		
Carbon disulfide	9.67		0.500	ug/L	10.0	ND	96.7	70-130		
o-Chlorotoluene	10.7		0.500	ug/L	10.0	ND	107	70-130		
2,2-Dichloropropane	9.28		0.500	ug/L	10.0	ND	92.8	70-130		
1,4-Dichlorobenzene (para-Dichlorobenzene)	9.06		0.500	ug/L	10.0	ND	90.6	70-130		
1,3-Dichloropropane	8.98		0.500	ug/L	10.0	ND	89.8	70-130		
m-Dichlorobenzene	9.06		0.500	ug/L	10.0	ND	90.6	70-130		
Trichloroflouromethane	10.5		0.500	ug/L	10.0	ND	105	50-154		
p-Chlorotoluene	10.3		0.500	ug/L	10.0	ND	103	70-130		
Surrogate: Toluene-d8			*20.6*	*ug/L*	*20.0*		*103*	*70-130*		
Surrogate: 4-Bromofluorobenzene			*20.0*	*ug/L*	*20.0*		*100*	*70-130*		
Surrogate: 1,2-Dichlorobenzene-d4			*20.0*	*ug/L*	*20.0*		*100*	*70-130*		

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Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0272 - VOC (Continued)										
Matrix Spike Dup (BDI0272-MSD1)	**Source: MDI0255-02**				Prepared & Analyzed: 9/11/2023					
Methyl isobutyl ketone (MIBK)	8.99		2.50	ug/L	10.0	ND	89.9	53-167	7.62	20
2-hexanone	8.27		2.50	ug/L	10.0	ND	82.7	43-175	5.08	20
Bromodichloromethane	8.86		0.500	ug/L	10.0	ND	88.6	70-130	0.899	20
1,3,5-Trimethylbenzene	10.4		0.500	ug/L	10.0	ND	104	40-140	1.82	20
m-Dichlorobenzene	9.11		0.500	ug/L	10.0	ND	91.1	70-130	0.550	20
1,3-Dichloropropane	9.20		0.500	ug/L	10.0	ND	92.0	70-130	2.42	20
1,4-Dichlorobenzene (para-Dichlorobenzene)	9.11		0.500	ug/L	10.0	ND	91.1	70-130	0.550	20
1,2-Dichloroethane	9.04		0.500	ug/L	10.0	ND	90.4	70-130	0.221	20
o-Chlorotoluene	10.4		0.500	ug/L	10.0	ND	104	70-130	2.75	20
p-Chlorotoluene	10.0		0.500	ug/L	10.0	ND	100	70-130	2.75	20
Acrylonitrile	9.31		0.500	ug/L	10.0	ND	93.1	65-137	4.84	20
Benzene	9.63		0.500	ug/L	10.0	ND	96.3	70-130	0.621	20
Bromobenzene	8.93		0.500	ug/L	10.0	ND	89.3	70-130	1.00	20
Naphthalene	8.37		0.500	ug/L	10.0	ND	83.7	56-147	11.5	20
2,2-Dichloropropane	9.53		0.500	ug/L	10.0	ND	95.3	70-130	2.66	20
1,2,3-Trichlorobenzene	9.39		0.500	ug/L	10.0	ND	93.9	67-134	7.28	20
1,1,1,2-Tetrachloroethane	8.86		0.500	ug/L	10.0	ND	88.6	70-130	0.675	20
1,1,1-Trichloroethane	11.9		0.500	ug/L	10.0	2.85	90.9	70-130	4.10	20
1,1,2,2-Tetrachloroethane	9.38		0.500	ug/L	10.0	ND	93.8	67-136	0.642	20
1,1,2-Trichlorethane	8.82		0.500	ug/L	10.0	ND	88.2	70-130	0.568	20
1,1-Dichloroethane	14.1		0.500	ug/L	10.0	5.61	84.4	70-130	0.355	20
1,2-Dichloropropane	9.30		0.500	ug/L	10.0	ND	93.0	70-130	1.63	20
1,1-Dichloropropene	10.5		0.500	ug/L	10.0	ND	105	70-130	1.61	20
Bromoform	8.00		0.500	ug/L	10.0	ND	80.0	59-140	3.20	20
1,2,3-Trichloropropane	9.30		0.500	ug/L	10.0	ND	93.0	69-137	0.107	20
1,2,4-Trichlorobenzene	8.73		0.500	ug/L	10.0	ND	87.3	70-130	9.86	20
1,2,4-Trimethylbenzene	10.4		0.500	ug/L	10.0	ND	104	40-140	1.82	20
DBCP (screening)	8.84		0.500	ug/L	10.0	ND	88.4	55-146	5.94	20
EDB (screening)	8.97		0.500	ug/L	10.0	ND	89.7	70-130	3.40	20
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	9.06		0.500	ug/L	10.0	ND	90.6	70-130	1.11	20
1,1-Dichloroethylene	13.6		0.500	ug/L	10.0	5.07	85.2	70-130	2.38	20
Tetrachloroethylene	9.41		0.500	ug/L	10.0	ND	94.1	70-130	1.37	20
Bromochloromethane	9.54		0.500	ug/L	10.0	ND	95.4	70-130	2.55	20
n-Propylbenzene	10.2		0.500	ug/L	10.0	ND	102	70-130	2.62	20
o-Xylene (MCL for total)	9.42		0.500	ug/L	10.0	ND	94.2	62-127	1.17	20
p-isopropyltoluene	9.86		0.500	ug/L	10.0	ND	98.6	70-130	2.40	20
sec-Butylbenzene	10.4		0.500	ug/L	10.0	ND	104	70-130	2.00	20
methyl-t-butyl ether (MTBE)	8.59		0.500	ug/L	10.0	ND	85.9	57-138	9.00	20
tert-Butylbenzene	10.1		0.500	ug/L	10.0	ND	101	70-130	1.47	20
Methyl ethyl ketone (MEK)	9.41		2.50	ug/L	10.0	ND	94.1	47-165	2.04	20
Toluene	9.54		0.500	ug/L	10.0	ND	95.4	70-130	1.15	20
trans-1,2 Dichloroethylene	9.90		0.500	ug/L	10.0	ND	99.0	70-130	1.32	20
trans-1,3-Dichloropropene	8.18		0.500	ug/L	10.0	ND	81.8	61-131	3.48	20
Trichloroethene	9.51		0.500	ug/L	10.0	ND	95.1	70-130	1.70	20
Trichloroflouromethane	9.96		0.500	ug/L	10.0	ND	99.6	50-154	4.80	20
Styrene	9.88		0.500	ug/L	10.0	ND	98.8	30-130	0.806	20
Dibromochloromethane	8.53		0.500	ug/L	10.0	ND	85.3	70-130	0.824	20
Carbon disulfide	9.70		0.500	ug/L	10.0	ND	97.0	70-130	0.310	20
Carbon Tetrachloride	9.98		0.500	ug/L	10.0	ND	99.8	70-130	4.51	20
Chlorobenzene (Monochlorobenzene)	8.82		0.500	ug/L	10.0	ND	88.2	70-130	0.341	20

Anatek Labs, Inc.

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504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - email spokane@anateklabs.com

Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDI0272 - VOC (Continued)										
Matrix Spike Dup (BDI0272-MSD1)	**Source: MDI0255-02**				Prepared & Analyzed: 9/11/2023					
Chloroethane	10.9		0.500	ug/L	10.0	ND	109	68-138	1.82	20
Chloroform	9.80		0.500	ug/L	10.0	ND	98.0	70-130	2.62	20
n-Butylbenzene	10.2		0.500	ug/L	10.0	ND	102	67-130	0.683	20
cis-1,3-Dichloropropene	8.43		0.500	ug/L	10.0	ND	84.3	74-124	6.24	20
Vinyl Chloride	9.98		0.500	ug/L	10.0	ND	99.8	70-130	2.77	20
Dibromomethane	9.24		0.500	ug/L	10.0	ND	92.4	70-130	0.543	20
Dichlorodifluoromethane	22.7		0.500	ug/L	10.0	15.5	71.5	57-136	0.922	20
Ethylbenzene	9.51		0.500	ug/L	10.0	ND	95.1	70-130	1.77	20
Hexachlorobutadiene	10.2		0.500	ug/L	10.0	ND	102	70-130	0.975	20
Isopropylbenzene	9.83		0.500	ug/L	10.0	ND	98.3	70-130	0.612	20
m/p Xylenes (MCL for total)	18.8		0.500	ug/L	20.0	ND	94.2	57-130	1.07	20
cis-1,2-Dichloroethylene	9.71		0.500	ug/L	10.0	ND	97.1	70-130	4.21	20
Surrogate: 4-Bromofluorobenzene			*19.6*	*ug/L*	*20.0*		*97.9*	*70-130*		
Surrogate: Toluene-d8			*20.4*	*ug/L*	*20.0*		*102*	*70-130*		
Surrogate: 1,2-Dichlorobenzene-d4			*20.0*	*ug/L*	*20.0*		*100*	*70-130*		

ANATEK LABS

Chain of Custody Record

Anatek La
1282 Alturas Drive, Moscow
504 E Sprague Ste D, Spokane

Turn Aro

Company Name: PBS Engineering and Environmental	Project Manager: Scott Braunsten
Address: 4412 S Corbett Ave	Project Name & #: Camp Bonneville, 76151.011
City: Portland State: OR Zip: 97239	Purchase Order #:
Phone: 503-248-1939	Sampler Name & Phone: Riley Martin 702-379-7799
Email Address(es): scott.braunsten@pbsusa.com, samantha.eckes@pbsusa.com	

Please refer to our normal turn around times at www.anateklabs.com/pricing-lists

✓ Normal
__Next Day*
__2nd Day*
__Other*_____

__Phone
__Email

*All rush order requests must have prior approval

List Analyses Requested

Lab ID	Sample Identification	Sampling Date/Time	Matrix	Preservative:	# of Containers	Sample Volume	VOCs by 8260B	Explosives by 8330	Perchlorate by 6850
1	03Q2323L4MW11BW	9-06-23 1000	H2O		6		X	X	X
2	03Q2323L4MW10BW	9-06-23 1145	H2O		6		X	X	X
3	03Q2323L4MW10AW	9-06-23 1240	H2O		6		X	X	X
4	03Q2323L4MW09AW	9-06-23 1335	H2O		6		X	X	X
5	03Q2323L4MW09BW	9-06-23 1430	H2O		6		X	X	X
6	03Q2323L4MW02BW	9-06-23 1600	H2O		6		X	X	X
	090623TB	9-06-23	H2O		1		X		

Note Special Instructions/Comments

Please send login confirmation
Please provide EQuIS EDD + WA EIM

Please match the following mislabeled sample names to the ones listed on the CoC:

- 03Q2323L4MW11BW containers mislabeled as 03Q2323LCMW11BW
- 03Q2323L4MW10BW containers mislabeled as 03Q2323LCMW10BW
- 03Q2323L4MW10AW containers mislabeled as 03Q2323LCMW10AW
- 03Q2323L4MW09BW containers mislabeled as 03Q2323LCMW9BW

Inspection Checklist

Received Intact?	Y	N
Labels & Chains Agree?	Y	N
Containers Sealed?	Y	N
No VOC Head Space?	Y	N
Cooler?	Y	N
Ice/Ice Packs Present?	Y	N

Temperature (°C):_____
Number of Containers:_____
Shipped Via:_____
Preservative:_____
Date & Time:_____
Inspected By:_____

	Printed Name	Signature	Company	Date	Time
Relinquished by	RILEY MARTIN		PBS	9-7-23	11:20
Received by	SM			9-8-23	13:36
Relinquished by					
Received by					
Relinquished by					
Received by					

Samples submitted to Anatek Labs may be subcontacted to other accredited labs if necessary. This message serves as notice of this possibility. Subcontracted analyses will be clearly noted on the analytical report.

Anatek Labs, Inc.

Sample Receipt and Preservation Form

Client Name: PBS Engineering

TAT: (Normal) RUSH: _____ days

Samples Received From: (FedEx) UPS USPS Client Courier Other: —

Custody Seal on Cooler/Box: Yes (No) Custody Seals Intact: Yes No (N/A)

Number of Coolers/Boxes: 2 Type of Ice: (Wet Ice) Ice Packs Dry Ice None

Packing Material: (Bubble Wrap) Bags Foam/Peanuts Paper None Other: —

Cooler Temp As Read (°C): 4.3 Cooler Temp Corrected (°C): - Thermometer Used: IR5

				Comments:
Samples Received Intact?	(Yes)	No	N/A	
Chain of Custody Present/Complete?	(Yes)	No	N/A	
Labels and Chains Agree?	(Yes)	No	N/A	
Samples Received Within Hold Time?	(Yes)	No	N/A	
Correct Containers Received?	(Yes)	(No)	N/A	Missing 090623TB
Anatek Bottles Used?	(Yes)	No	Unknown	
Total Number of Sample Bottles Received: 36				

				Initial pH:	pH Paper ID:
Samples Properly Preserved?	(Yes)	No	N/A	<2 or	
If No, record preservation and pH-after details					
VOC Vials Free of Headspace (<6mm)?	(Yes)	No	N/A		
VOC Trip Blanks Present?	Yes	(No)	N/A		

Record preservatives (and lot numbers, if known) for containers below:

G1L - Explosives x 12
P125 - Perchlorate x 6
G44 - HCl - 8260 x 18

Notes, comments, etc. (also use this space if contacting the client - record names and date/time)

Received/Inspected By: SM Date/Time: 9/8/23 13:36

ANATEK LABS

Chain of Custody Record

Anatek Labs, Inc.
1282 Alturas Drive, Moscow ID 83843 (208) 883-2839
504 E Sprague Ste D, Spokane WA 99202 (509) 838-3999

Company Name: PBS Engineering and Environmental	Project Manager: Scott Braunsten
Address: 4412 S Corbett Ave	Project Name & #: Camp Bonneville, 76151.012
City: Portland State: OR Zip: 97239	Purchase Order #:
Phone: 503-248-1939	Sampler Name & Phone: Riley Martin 702-379-7799
Email Address(es): scott.braunsten@pbsusa.com, samantha.eckes@pbsusa.com	

Turn Around Time & Reporting

Please refer to our normal turn around times at www.anateklabs.com/pricing-lists

- ✓ Normal
- __ Next Day*
- __ 2nd Day*
- __ Other*_____

__Phone
__Email

*All rush order requests must have prior approval

Revised COC Recd 9/11/23 A

List Analyses Requested

Lab ID	Sample Identification	Sampling Date/Time	Matrix	Preservative	# of Containers	Sample Volume	VOCs by 8260B	Explosives by 8330	Perchlorate by 6850
	03Q23L4MW11BW	9-06-23 1000	H2O		6		X	X	X
	03Q23L4MW10BW	9-06-23 1145	H2O		6		X	X	X
	03Q23L4MW10AW	9-06-23 1240	H2O		6		X	X	X
	03Q23L4MW09AW	9-06-23 1335	H2O		6		X	X	X
	03Q23L4MW09BW	9-06-23 1430	H2O		6		X	X	X
	03Q23L4MW02BW	9-06-23 1600	H2O		6		X	X	X
	090623TB	9-06-23	H2O		1		X		

Note Special Instructions/Comments

Please send login confirmation

Please provide EQuIS EDD + WA EIM

03Q23L4MW11BW containers mislabeled as 03Q23LCMW11BW
03Q23L4MW10BW containers mislabeled as 03Q23LCMW10BW
03Q23L4MW10AW containers mislabeled as 03Q23LCMW10AW
03Q23L4MW09BW containers mislabeled as 03Q23LCMW9BW

Inspection Checklist

Received Intact?	Y	N
Labels & Chains Agree?	Y	N
Containers Sealed?	Y	N
No VOC Head Space?	Y	N
Cooler?	Y	N
Ice/Ice Packs Present?	Y	N

Temperature (°C):_____
Number of Containers:_____
Shipped Via:_____
Preservative:_____
Date & Time:_____
Inspected By:_____

	Printed Name	Signature	Company	Date	Time
Relinquished by	RILEY MARTIN	Riley Martin	PBS	9-7-23	1120
Received by					
Relinquished by					
Received by					
Relinquished by					
Received by					

Samples submitted to Anatek Labs may be subcontacted to other accredited labs if necessary. This message serves as notice of this possibility. Subcontracted analyses will be clearly noted on the analytical report.

Appendix C

Anatek Labs, Level III Data Package

Anatek Labs, Inc
1282 Alturas Drive
Moscow, ID 83843

Calibration Standard Preparation Form Methods: EPA 331/6850

Initial Calibration and CCV Standard Number: 2302764
Initial Calibration and CCV Standard Concentration: 100 ppb
Initial Calibration and CCV Standard Expiration Date: 2/17/24

Laboratory Fortified Synthetic Sample Matrix Spiking Standard Number: 2302764
Matrix Spiking Standard Concentration: 100 ppb
Matrix Spiking Standards Expiration Dates: 2/17/24

Initial Calibration Verification (ICV) Standard: 2301022
Initial Calibration Verification (ICV) Stock Standard Concentration: 16.0 ppb
Initial Calibration Verification Expiration Date: 3/24

Internal Standard Number: ~~2300305~~ 2302773
Internal Standard Concentration: 100 ppb
Internal Standard Expiration Date: 1/24
8

Initial Calibration Dilution Template (minimum of 5 calibration points)

Desired Concentration (ppb)	Stock Concentration (ppb)	Standard Added (uL)	IS Added (uL)	H_2O Added (uL)	Final Volume (mL)
Blank	0	0	25	1000	1.00
LFSSM	100	50	25	950**	1.00
LSSM	0	0	25	1000**	1.00
50	100	500	25	500	1.00
20	100	200	25	800	1.00
10	100	100	25	900	1.00
5	100	50	25	950	1.00
~~1~~ 2.5	100	~~10~~ 25	25	~~990~~ 975	1.00
0.2	100	2	25	998	1.00
0.05	100	0.5	25	1000	1.00
ICV	16	1000	25	0	1.00

Note: * LSSM solution (2202828) used not H_2O. LSSM solution consists of 1000 mg/L of NaCl, Na_2SO_4, $NaHCO_3$

Solution Prepared:
✓ ICAL Standards
✓ ICV
✓ LFSSM
✓ LSSM

9/18/23

BD100071
+ 478

Analyst: GPB Date of Preparation: 9/15/23

DW & WW Sample Preparation Log DATE_____ ANALYST_____

Methods: EPA 331.0/6850 –Perchlorate
Solvent: Water
Instrument: LC-MS-MS
Ext. Method: Direct injection

Internal Standard (IS)	**Solution #**	**Concentration (ppb)**	**Expiration Date**
Perchlorate –$Cl^{18}O_4^-$	2302773	100	8/30/24
Continuing Cal Verification (CCV)	**Solution #**	**Concentration (ppb)**	**Expiration Date**
Perchlorate	2302764	100	2/17/24
Matrix Spiking Info (MS/MSD)	**Solution #**	**Concentration (ppb)**	**Expiration Date**
Perchlorate	2302764	100	2/17/24
Quality Control Std (QCS)	**Solution #**	**Concentration (ppb)**	**Expiration Date**
Perchlorate ICV	~~2301008~~ 2301022	16	3/2024

Sample # I0071	**Sample Added (uL)**	**ICAL Standard Added (uL)**	**IS Added (uL)**	**H_2O Added (uL)**	**Final Volume (ml)**	**Dilution factor**
BD~~H1230-~~BLK1	0	0	25	1000	1.00	1
BD~~H1230-~~BS1 (5 ppb)	0	~~50~~ 10	25	950	1.00	1
LFSSM (5 ppb)	0	~~50~~ 10	25	950*	1.00	1
LSSM	0	0	25	1000*	1.00	1
BDI0071-MS1 21-1	1000	~~50~~ 10	25	0	1.00	1
BDI0071-MSD1	1000	~~50~~ 10	25	0	1.00	1
BDI0071-MS2 24-1	1000	50	25	0	1.00	1
BDI0071-MSD2	1000	50	25	0	1.00	1
BDH1230-MS2 36-1	1000	~~50~~ 10	25	0	1.00	1
BDH1230-MSD2	1000	~~50~~ 10	25	0	1.00	1
BDI0071-MRL1	1000	0.5	25	0	1.00	1
MDI0021-01	1000	0	25	0	1.00	1
MDI0022-01	1000	0	25	0	1.00	1
MDI0022-02	1000	0	25	0	1.00	1
* MDI0022-03	1000	0	25	0	1.00	1
MDI0022-04	1000	0	25	0	1.00	1
* MDI0024-01	1000	0	25	0	1.00	1
* MDI0024-02	1000	0	25	0	1.00	1
* MDI0024-03	1000	0	25	0	1.00	1
* MDI0024-04	1000	0	25	0	1.00	1
MDI0025-02	1000	0	25	0	1.00	1
MDI0025-03	1000	0	25	0	1.00	1
MDI0025-04	1000	0	25	0	1.00	1
MDI0025-05	1000	0	25	0	1.00	1
MDI0025-06	1000	0	25	0	1.00	1
MDI0025-07	1000	0	25	0	1.00	1
MDI0025-10	1000	0	25	0	1.00	1
MDI0025-11	1000	0	25	0	1.00	1

* 20uL sample (50x dilution)

Note: * LSSM solution (2202828) used not H_2O. LSSM solution consists of 1000 mg/L of NaCl, Na_2SO_4, $NaHCO_3$

Pipettes: 10-100 uL: PM-13
100-1000 uL: PI-11

DW & WW Sample Preparation Log DATE_____ ANALYST_____

Methods: EPA 331.0/6850 –Perchlorate
Solvent: Water
Instrument: LC-MS-MS
Ext. Method: Direct injection

Internal Standard (IS)	**Solution #**	**Concentration (ppb)**	**Expiration Date**
Perchlorate $-Cl^{18}O_4^-$	2302773	100	8/30/24
Continuing Cal Verification (CCV)	**Solution #**	**Concentration (ppb)**	**Expiration Date**
Perchlorate	2302764	100	2/17/24
Matrix Spiking Info (MS/MSD)	**Solution #**	**Concentration (ppb)**	**Expiration Date**
Perchlorate	2302764	100	2/17/24
Quality Control Std (QCS)	**Solution #**	**Concentration (ppb)**	**Expiration Date**
Perchlorate ICV	~~2301008~~ 2301022	16	3/2024

Sample #	**Sample Added (uL)**	**ICAL Standard Added (uL)**	**IS Added (uL)**	**H_2O Added (uL)**	**Final Volume (ml)**	**Dilution factor**
BDI0478-BLK1	0	0	25	1000	1.00	1
BDI0478-BS1 (5 ppb)	0	50 10	25	950	1.00	1
LFSSM (5 ppb)	0	50 10	25	950*	1.00	1
LSSM	0	0	25	1000*	1.00	1
BDI0478-MS1	1000	~~50~~ 50	25	0	1.00	1
BDI0478-MSD1	1000	~~50~~ 50	25	0	1.00	1
BDI0478-MRL1	1000	0.5	25	0	1.00	1
* MDI0255-01	1000	0	25	0	1.00	1
* MDI0255-02	1000	0	25	0	1.00	1
* MDI0255-03	1000	0	25	0	1.00	1
* MDI0255-04	1000	0	25	0	1.00	1
* MDI0255-05	1000	0	25	0	1.00	1
* MDI0255-06	1000	0	25	0	1.00	1

Note: * LSSM solution (2202828) used not H_2O. LSSM solution consists of 1000 mg/L of NaCl, Na_2SO_4, $NaHCO_3$

*20ul sample (50x dilution)

Pipettes: 10-100 uL: PM-13
100-1000 uL: PI-11

	Sample Name	Sample Type	Acquisition Date	File Name	Dilution Factor	Analyte Peak Name	Analyte Peak Area (counts)	Analyte Concentration (ng/mL)	IS Peak Area (counts)	Calculated Concentration (ng/mL)	Accuracy (%)
1	50 ppb ICAL	Standard	9/15/2023 3:33:2	091523_perc\	1.00	Perc C37	3.55e+005	50.0	5.24e+004	50.2	100.
2	50 ppb ICAL	Standard	9/15/2023 3:33:2	091523_perc\	1.00	Perc C35	1.02e+006	50.0	5.24e+004	50.1	100.
3	20 ppb ICAL	Standard	9/15/2023 3:40:3	091523_perc\	1.00	Perc C37	1.58e+005	20.0	5.81e+004	19.4	96.9
4	20 ppb ICAL	Standard	9/15/2023 3:40:3	091523_perc\	1.00	Perc C35	4.67e+005	20.0	5.81e+004	19.7	98.5
5	10 ppb ICAL	Standard	9/15/2023 3:47:5	091523_perc\	1.00	Perc C37	8.80e+004	10.0	6.03e+004	10.3	103.
6	10 ppb ICAL	Standard	9/15/2023 3:47:5	091523_perc\	1.00	Perc C35	2.51e+005	10.0	6.03e+004	10.1	101.
7	5 ppb ICAL	Standard	9/15/2023 3:55:0	091523_perc\	1.00	Perc C37	4.56e+004	5.00	6.40e+004	4.97	99.5
8	5 ppb ICAL	Standard	9/15/2023 3:55:0	091523_perc\	1.00	Perc C35	1.32e+005	5.00	6.40e+004	4.96	99.1
9	2.5 ppb ICAL	Standard	9/15/2023 4:02:2	091523_perc\	1.00	Perc C37	2.45e+004	2.50	6.37e+004	2.67	107.
10	2.5 ppb ICAL	Standard	9/15/2023 4:02:2	091523_perc\	1.00	Perc C35	7.14e+004	2.50	6.37e+004	2.68	107.
11	0.2 ppb ICAL	Standard	9/15/2023 4:09:4	091523_perc\	1.00	Perc C37	2.00e+003	0.200	6.10e+004	0.209	104.
12	0.2 ppb ICAL	Standard	9/15/2023 4:09:4	091523_perc\	1.00	Perc C35	4.84e+003	0.200	6.10e+004	0.182	90.8
13	0.05 ppb ICAL	Standard	9/15/2023 4:16:5	091523_perc\	1.00	Perc C37	5.94e+002	0.0500	6.39e+004	0.0446	89.3
14	0.05 ppb ICAL	Standard	9/15/2023 4:16:5	091523_perc\	1.00	Perc C35	1.58e+003	0.0500	6.39e+004	0.0518	104.
15	16 ppb ICV	Quality C	9/15/2023 4:24:1	091523_perc\	1.00	Perc C37	1.42e+005	16.0	6.33e+004	16.0	99.7
16	16 ppb ICV	Quality C	9/15/2023 4:24:1	091523_perc\	1.00	Perc C35	4.06e+005	16.0	6.33e+004	15.6	97.7
17	BDI0071-BLK1	Unknown	9/15/2023 4:31:3	091523_perc\	1.00	Perc C37	0.00e+000	N/A	6.43e+004	No Peak	N/A
18	BDI0071-BLK1	Unknown	9/15/2023 4:31:3	091523_perc\	1.00	Perc C35	0.00e+000	N/A	6.43e+004	No Peak	N/A
19	BDI0071-BS1	Unknown	9/15/2023 4:38:4	091523_perc\	1.00	Perc C37	8.76e+003	N/A	6.17e+004	0.972	N/A
20	BDI0071-BS1	Unknown	9/15/2023 4:38:4	091523_perc\	1.00	Perc C35	2.82e+004	N/A	6.17e+004	1.09	N/A
21	LFSSM	Unknown	9/15/2023 4:46:0	091523_perc\	1.00	Perc C37	8.30e+003	N/A	5.69e+004	0.999	N/A
22	LFSSM	Unknown	9/15/2023 4:46:0	091523_perc\	1.00	Perc C35	2.55e+004	N/A	5.69e+004	1.06	N/A
23	LSSM	Unknown	9/15/2023 4:53:2	091523_perc\	1.00	Perc C37	0.00e+000	N/A	5.40e+004	No Peak	N/A
24	LSSM	Unknown	9/15/2023 4:53:2	091523_perc\	1.00	Perc C35	0.00e+000	N/A	5.40e+004	No Peak	N/A
25	BDI0071-MS1	Unknown	9/15/2023 5:00:4	091523_perc\	1.00	Perc C37	9.23e+003	N/A	6.65e+004	0.949	N/A
26	BDI0071-MS1	Unknown	9/15/2023 5:00:4	091523_perc\	1.00	Perc C35	2.83e+004	N/A	6.65e+004	1.01	N/A
27	BDI0071-MSD1	Unknown	9/15/2023 5:07:5	091523_perc\	1.00	Perc C37	1.21e+004	N/A	6.96e+004	1.20	N/A
28	BDI0071-MSD1	Unknown	9/15/2023 5:07:5	091523_perc\	1.00	Perc C35	3.36e+004	N/A	6.96e+004	1.15	N/A
29	BDI0071-MS2	Unknown	9/15/2023 5:15:1	091523_perc\	1.00	Perc C37	1.36e+006	N/A	5.92e+004	215.	N/A

	Sample Name	Sample Type	Acquisition Date	File Name	Dilution Factor	Analyte Peak Name	Analyte Peak Area (counts)	Analyte Concentration (ng/mL)	IS Peak Area (counts)	Calculated Concentration (ng/mL)	Accuracy (%)
30	BDI0071-MS2	Unknown	9/15/2023 5:15:1	091523_perc\	1.00	Perc C35	3.83e+006	N/A	5.92e+004	236.	N/A
31	BDI0071-MSD2	Unknown	9/15/2023 5:22:3	091523_perc\	1.00	Perc C37	1.43e+006	N/A	6.52e+004	201.	N/A
32	BDI0071-MSD2	Unknown	9/15/2023 5:22:3	091523_perc\	1.00	Perc C35	4.00e+006	N/A	6.52e+004	213.	N/A
33	BDH1230-MS2	Unknown	9/15/2023 5:29:4	091523_perc\	1.00	Perc C37	1.13e+004	N/A	6.63e+004	1.17	N/A
34	BDH1230-MS2	Unknown	9/15/2023 5:29:4	091523_perc\	1.00	Perc C35	3.49e+004	N/A	6.63e+004	1.25	N/A
35	BDH1230-MSD2	Unknown	9/15/2023 5:37:0	091523_perc\	1.00	Perc C37	1.07e+004	N/A	6.77e+004	1.08	N/A
36	BDH1230-MSD2	Unknown	9/15/2023 5:37:0	091523_perc\	1.00	Perc C35	3.25e+004	N/A	6.77e+004	1.14	N/A
37	BDI0071-MRL1	Unknown	9/15/2023 5:44:2	091523_perc\	1.00	Perc C37	7.96e+002	N/A	6.05e+004	0.0715	N/A
38	BDI0071-MRL1	Unknown	9/15/2023 5:44:2	091523_perc\	1.00	Perc C35	1.37e+003	N/A	6.05e+004	0.0469	N/A
39	MDI0021-01	Unknown	9/15/2023 5:51:3	091523_perc\	1.00	Perc C37	8.40e+002	N/A	6.17e+004	0.0747	N/A
40	MDI0021-01	Unknown	9/15/2023 5:51:3	091523_perc\	1.00	Perc C35	1.84e+003	N/A	6.17e+004	0.0637	N/A
41	MDI0022-01	Unknown	9/15/2023 5:58:5	091523_perc\	1.00	Perc C37	1.66e+005	N/A	5.98e+004	19.8	N/A
42	MDI0022-01	Unknown	9/15/2023 5:58:5	091523_perc\	1.00	Perc C35	5.03e+005	N/A	5.98e+004	20.6	N/A
43	MDI0022-02	Unknown	9/15/2023 6:06:1	091523_perc\	1.00	Perc C37	1.58e+005	N/A	6.06e+004	18.6	N/A
44	MDI0022-02	Unknown	9/15/2023 6:06:1	091523_perc\	1.00	Perc C35	4.89e+005	N/A	6.06e+004	19.8	N/A
45	MDI0022-03	Unknown	9/15/2023 6:13:2	091523_perc\	1.00	Perc C37	5.14e+005	N/A	5.32e+004	73.8	N/A
46	MDI0022-03	Unknown	9/15/2023 6:13:2	091523_perc\	1.00	Perc C35	1.51e+006	N/A	5.32e+004	76.1	N/A
47	MDI0022-04	Unknown	9/15/2023 6:20:4	091523_perc\	1.00	Perc C37	1.71e+005	N/A	6.48e+004	18.8	N/A
48	MDI0022-04	Unknown	9/15/2023 6:20:4	091523_perc\	1.00	Perc C35	5.14e+005	N/A	6.48e+004	19.4	N/A
49	MDI0024-01	Unknown	9/15/2023 6:28:0	091523_perc\	1.00	Perc C37	1.49e+006	N/A	6.67e+004	207.	N/A
50	MDI0024-01	Unknown	9/15/2023 6:28:0	091523_perc\	1.00	Perc C35	4.22e+006	N/A	6.67e+004	227.	N/A
51	MDI0024-02	Unknown	9/15/2023 6:35:2	091523_perc\	1.00	Perc C37	9.62e+005	N/A	5.74e+004	140.	N/A
52	MDI0024-02	Unknown	9/15/2023 6:35:2	091523_perc\	1.00	Perc C35	2.83e+006	N/A	5.74e+004	151.	N/A
53	MDI0024-03	Unknown	9/15/2023 6:42:3	091523_perc\	1.00	Perc C37	8.77e+005	N/A	6.36e+004	111.	N/A
54	MDI0024-03	Unknown	9/15/2023 6:42:3	091523_perc\	1.00	Perc C35	2.53e+006	N/A	6.36e+004	114.	N/A
55	MDI0024-04	Unknown	9/15/2023 6:49:5	091523_perc\	1.00	Perc C37	8.47e+005	N/A	6.23e+004	109.	N/A
56	MDI0024-04	Unknown	9/15/2023 6:49:5	091523_perc\	1.00	Perc C35	2.60e+006	N/A	6.23e+004	121.	N/A
57	MDI0025-02	Unknown	9/15/2023 6:57:1	091523_perc\	1.00	Perc C37	2.81e+003	N/A	6.98e+004	0.261	N/A
58	MDI0025-02	Unknown	9/15/2023 6:57:1	091523_perc\	1.00	Perc C35	6.92e+003	N/A	6.98e+004	0.229	N/A

	Sample Name	Sample Type	Acquisition Date	File Name	Dilution Factor	Analyte Peak Name	Analyte Peak Area (counts)	Analyte Concentration (ng/mL)	IS Peak Area (counts)	Calculated Concentration (ng/mL)	Accuracy (%)
59	CCV 5 ppb	Unknown	9/15/2023 7:04:3	091523_perc\	1.00	Perc C37	5.77e+004	N/A	7.61e+004	5.31	N/A
60	CCV 5 ppb	Unknown	9/15/2023 7:04:3	091523_perc\	1.00	Perc C35	1.77e+005	N/A	7.61e+004	5.59	N/A
61	MDI0025-03	Unknown	9/15/2023 7:11:4	091523_perc\	1.00	Perc C37	1.01e+003	N/A	7.03e+004	0.0799	N/A
62	MDI0025-03	Unknown	9/15/2023 7:11:4	091523_perc\	1.00	Perc C35	2.39e+003	N/A	7.03e+004	0.0737	N/A
63	MDI0025-04	Unknown	9/15/2023 7:19:0	091523_perc\	1.00	Perc C37	6.65e+002	N/A	6.70e+004	0.0490	N/A
64	MDI0025-04	Unknown	9/15/2023 7:19:0	091523_perc\	1.00	Perc C35	1.75e+003	N/A	6.70e+004	0.0551	N/A
65	MDI0025-05	Unknown	9/15/2023 7:26:2	091523_perc\	1.00	Perc C37	1.46e+003	N/A	7.41e+004	0.117	N/A
66	MDI0025-05	Unknown	9/15/2023 7:26:2	091523_perc\	1.00	Perc C35	4.05e+003	N/A	7.41e+004	0.123	N/A
67	MDI0025-06	Unknown	9/15/2023 7:33:4	091523_perc\	1.00	Perc C37	1.50e+004	N/A	7.09e+004	1.46	N/A
68	MDI0025-06	Unknown	9/15/2023 7:33:4	091523_perc\	1.00	Perc C35	4.44e+004	N/A	7.09e+004	1.49	N/A
69	MDI0025-07	Unknown	9/15/2023 7:40:5	091523_perc\	1.00	Perc C37	1.50e+004	N/A	6.98e+004	1.48	N/A
70	MDI0025-07	Unknown	9/15/2023 7:40:5	091523_perc\	1.00	Perc C35	4.38e+004	N/A	6.98e+004	1.49	N/A
71	MDI0025-10	Unknown	9/15/2023 7:48:1	091523_perc\	1.00	Perc C37	1.96e+004	N/A	7.38e+004	1.84	N/A
72	MDI0025-10	Unknown	9/15/2023 7:48:1	091523_perc\	1.00	Perc C35	5.91e+004	N/A	7.38e+004	1.91	N/A
73	MDI0025-11	Unknown	9/15/2023 7:55:2	091523_perc\	1.00	Perc C37	4.21e+003	N/A	7.63e+004	0.365	N/A
74	MDI0025-11	Unknown	9/15/2023 7:55:2	091523_perc\	1.00	Perc C35	1.23e+004	N/A	7.63e+004	0.377	N/A
75	CCV 5 ppb	Unknown	9/15/2023 8:02:4	091523_perc\	1.00	Perc C37	6.23e+004	N/A	7.86e+004	5.55	N/A
76	CCV 5 ppb	Unknown	9/15/2023 8:02:4	091523_perc\	1.00	Perc C35	1.94e+005	N/A	7.86e+004	5.93	N/A
77	CCV 5 ppb	Unknown	9/18/2023 8:20:4	091523_perc\	1.00	Perc C37	6.61e+004	N/A	8.57e+004	5.40	N/A
78	CCV 5 ppb	Unknown	9/18/2023 8:20:4	091523_perc\	1.00	Perc C35	2.00e+005	N/A	8.57e+004	5.60	N/A
79	BDI0478-BLK1	Unknown	9/18/2023 8:28:0	091523_perc\	1.00	Perc C37	0.00e+000	N/A	8.28e+004	No Peak	N/A
80	BDI0478-BLK1	Unknown	9/18/2023 8:28:0	091523_perc\	1.00	Perc C35	0.00e+000	N/A	8.28e+004	No Peak	N/A
81	BDI0478-BS1	Unknown	9/18/2023 8:35:1	091523_perc\	1.00	Perc C37	1.38e+004	N/A	8.40e+004	1.12	N/A
82	BDI0478-BS1	Unknown	9/18/2023 8:35:1	091523_perc\	1.00	Perc C35	4.05e+004	N/A	8.40e+004	1.14	N/A
83	LFSSM	Unknown	9/18/2023 8:42:3	091523_perc\	1.00	Perc C37	1.23e+004	N/A	8.13e+004	1.04	N/A
84	LFSSM	Unknown	9/18/2023 8:42:3	091523_perc\	1.00	Perc C35	3.94e+004	N/A	8.13e+004	1.15	N/A
85	LSSM	Unknown	9/18/2023 8:49:5	091523_perc\	1.00	Perc C37	0.00e+000	N/A	7.67e+004	No Peak	N/A
86	LSSM	Unknown	9/18/2023 8:49:5	091523_perc\	1.00	Perc C35	0.00e+000	N/A	7.67e+004	No Peak	N/A
87	BDI0478-MS1	Unknown	9/18/2023 8:57:1	091523_perc\	1.00	Perc C37	4.44e+006	N/A	5.68e+004	No Intercept	N/A

	Sample Name	Sample Type	Acquisition Date	File Name	Dilution Factor	Analyte Peak Name	Analyte Peak Area (counts)	Analyte Concentration (ng/mL)	IS Peak Area (counts)	Calculated Concentration (ng/mL)	Accuracy (%)
88	BDI0478-MS1	Unknown	9/18/2023 8:57:1	091523_perc\	1.00	Perc C35	1.21e+007	N/A	5.68e+004	No Intercept	N/A
89	BDI0478-MSD1	Unknown	9/18/2023 9:04:3	091523_perc\	1.00	Perc C37	3.64e+006	N/A	4.49e+004	No Intercept	N/A
90	BDI0478-MSD1	Unknown	9/18/2023 9:04:3	091523_perc\	1.00	Perc C35	9.99e+006	N/A	4.49e+004	No Intercept	N/A
91	BDI0478-MRL1	Unknown	9/18/2023 9:11:4	091523_perc\	1.00	Perc C37	1.13e+003	N/A	8.50e+004	0.0728	N/A
92	BDI0478-MRL1	Unknown	9/18/2023 9:11:4	091523_perc\	1.00	Perc C35	2.38e+003	N/A	8.50e+004	0.0594	N/A
93	MDI0255-01	Unknown	9/18/2023 9:19:0	091523_perc\	1.00	Perc C37	3.91e+006	N/A	5.17e+004	No Intercept	N/A
94	MDI0255-01	Unknown	9/18/2023 9:19:0	091523_perc\	1.00	Perc C35	1.06e+007	N/A	5.17e+004	No Intercept	N/A
95	MDI0255-02	Unknown	9/18/2023 9:26:2	091523_perc\	1.00	Perc C37	1.78e+006	N/A	6.19e+004	332.	N/A
96	MDI0255-02	Unknown	9/18/2023 9:26:2	091523_perc\	1.00	Perc C35	5.09e+006	N/A	6.19e+004	No Intercept	N/A
97	MDI0255-03	Unknown	9/18/2023 9:33:4	091523_perc\	1.00	Perc C37	6.36e+005	N/A	7.42e+004	64.7	N/A
98	MDI0255-03	Unknown	9/18/2023 9:33:4	091523_perc\	1.00	Perc C35	1.96e+006	N/A	7.42e+004	70.3	N/A
99	MDI0255-04	Unknown	9/18/2023 9:40:5	091523_perc\	1.00	Perc C37	1.93e+006	N/A	7.22e+004	279.	N/A
100	MDI0255-04	Unknown	9/18/2023 9:40:5	091523_perc\	1.00	Perc C35	5.53e+006	N/A	7.22e+004	No Intercept	N/A
101	MDI0255-05	Unknown	9/18/2023 9:48:1	091523_perc\	1.00	Perc C37	1.53e+006	N/A	6.16e+004	245.	N/A
102	MDI0255-05	Unknown	9/18/2023 9:48:1	091523_perc\	1.00	Perc C35	4.35e+006	N/A	6.16e+004	311.	N/A
103	MDI0255-06	Unknown	9/18/2023 9:55:2	091523_perc\	1.00	Perc C37	2.18e+006	N/A	5.95e+004	No Intercept	N/A
104	MDI0255-06	Unknown	9/18/2023 9:55:2	091523_perc\	1.00	Perc C35	6.10e+006	N/A	5.95e+004	No Intercept	N/A
105	CCV 5 ppb	Unknown	9/18/2023 10:02:	091523_perc\	1.00	Perc C37	5.02e+004	N/A	6.63e+004	5.30	N/A
106	CCV 5 ppb	Unknown	9/18/2023 10:02:	091523_perc\	1.00	Perc C35	1.59e+005	N/A	6.63e+004	5.76	N/A
107	MDI0022-03 20uL	Unknown	9/18/2023 10:10:	091523_perc\	1.00	Perc C37	1.45e+004	N/A	6.97e+004	1.43	N/A
108	MDI0022-03 20uL	Unknown	9/18/2023 10:10:	091523_perc\	1.00	Perc C35	4.63e+004	N/A	6.97e+004	1.58	N/A
109	MDI0024-01 20uL	Unknown	9/18/2023 10:17:	091523_perc\	1.00	Perc C37	3.34e+004	N/A	6.80e+004	3.41	N/A
110	MDI0024-01 20uL	Unknown	9/18/2023 10:17:	091523_perc\	1.00	Perc C35	1.03e+005	N/A	6.80e+004	3.64	N/A
111	BDI0074-MS2 20uL	Unknown	9/18/2023 10:24:	091523_perc\	1.00	Perc C37	7.83e+004	N/A	6.62e+004	8.31	N/A
112	BDI0074-MS2 20uL	Unknown	9/18/2023 10:24:	091523_perc\	1.00	Perc C35	2.49e+005	N/A	6.62e+004	9.08	N/A
113	BDI0074-MSD2 20uL	Unknown	9/18/2023 10:31:	091523_perc\	1.00	Perc C37	7.96e+004	N/A	6.07e+004	9.24	N/A
114	BDI0074-MSD2 20uL	Unknown	9/18/2023 10:31:	091523_perc\	1.00	Perc C35	2.49e+005	N/A	6.07e+004	9.92	N/A
115	MDI0024-02 20uL	Unknown	9/18/2023 10:39:	091523_perc\	1.00	Perc C37	2.30e+004	N/A	6.08e+004	2.63	N/A
116	MDI0024-02 20uL	Unknown	9/18/2023 10:39:	091523_perc\	1.00	Perc C35	6.85e+004	N/A	6.08e+004	2.69	N/A

	Sample Name	Sample Type	Acquisition Date	File Name	Dilution Factor	Analyte Peak Name	Analyte Peak Area (counts)	Analyte Concentration (ng/mL)	IS Peak Area (counts)	Calculated Concentration (ng/mL)	Accuracy (%)
117	MDI0024-03 20uL	Unknown	9/18/2023 10:46:	091523_perc\	1.00	Perc C37	1.86e+004	N/A	6.72e+004	1.92	N/A
118	MDI0024-03 20uL	Unknown	9/18/2023 10:46:	091523_perc\	1.00	Perc C35	5.82e+004	N/A	6.72e+004	2.06	N/A
119	MDI0024-04 20uL	Unknown	9/18/2023 10:53:	091523_perc\	1.00	Perc C37	1.79e+004	N/A	6.36e+004	1.95	N/A
120	MDI0024-04 20uL	Unknown	9/18/2023 10:53:	091523_perc\	1.00	Perc C35	5.77e+004	N/A	6.36e+004	2.16	N/A
121	CCV 5 ppb	Unknown	9/18/2023 11:00:	091523_perc\	1.00	Perc C37	5.40e+004	N/A	6.95e+004	5.44	N/A
122	CCV 5 ppb	Unknown	9/18/2023 11:00:	091523_perc\	1.00	Perc C35	1.61e+005	N/A	6.95e+004	5.56	N/A
123	100 ppb	Unknown	9/18/2023 11:08:	091523_perc\	1.00	Perc C37	8.60e+005	N/A	5.95e+004	117.	N/A
124	100 ppb	Unknown	9/18/2023 11:08:	091523_perc\	1.00	Perc C35	2.62e+006	N/A	5.95e+004	130.	N/A
125	MDI0255-01 20uL	Unknown	9/18/2023 11:15:	091523_perc\	1.00	Perc C37	1.13e+005	N/A	6.50e+004	12.3	N/A
126	MDI0255-01 20uL	Unknown	9/18/2023 11:15:	091523_perc\	1.00	Perc C35	3.55e+005	N/A	6.50e+004	13.3	N/A
127	BDI0478-MS1 20uL	Unknown	9/18/2023 11:22:	091523_perc\	1.00	Perc C37	1.63e+005	N/A	6.56e+004	17.7	N/A
128	BDI0478-MS1 20uL	Unknown	9/18/2023 11:22:	091523_perc\	1.00	Perc C35	5.09e+005	N/A	6.56e+004	19.0	N/A
129	BDI0478-MSD1 20uL	Unknown	9/18/2023 11:30:	091523_perc\	1.00	Perc C37	1.53e+005	N/A	6.44e+004	16.8	N/A
130	BDI0478-MSD1 20uL	Unknown	9/18/2023 11:30:	091523_perc\	1.00	Perc C35	4.80e+005	N/A	6.44e+004	18.2	N/A
131	MDI0255-02 20uL	Unknown	9/18/2023 11:37:	091523_perc\	1.00	Perc C37	4.55e+004	N/A	6.64e+004	4.79	N/A
132	MDI0255-02 20uL	Unknown	9/18/2023 11:37:	091523_perc\	1.00	Perc C35	1.39e+005	N/A	6.64e+004	5.02	N/A
133	MDI0255-03 20uL	Unknown	9/18/2023 11:44:	091523_perc\	1.00	Perc C37	1.27e+004	N/A	6.71e+004	1.30	N/A
134	MDI0255-03 20uL	Unknown	9/18/2023 11:44:	091523_perc\	1.00	Perc C35	4.12e+004	N/A	6.71e+004	1.46	N/A
135	MDI0255-04 20uL	Unknown	9/18/2023 11:52:	091523_perc\	1.00	Perc C37	4.01e+004	N/A	6.81e+004	4.11	N/A
136	MDI0255-04 20uL	Unknown	9/18/2023 11:52:	091523_perc\	1.00	Perc C35	1.30e+005	N/A	6.81e+004	4.57	N/A
137	MDI0255-05 20uL	Unknown	9/18/2023 11:59:	091523_perc\	1.00	Perc C37	4.09e+004	N/A	7.25e+004	3.93	N/A
138	MDI0255-05 20uL	Unknown	9/18/2023 11:59:	091523_perc\	1.00	Perc C35	1.22e+005	N/A	7.25e+004	4.01	N/A
139	MDI0255-06 20uL	Unknown	9/18/2023 12:06:	091523_perc\	1.00	Perc C37	5.53e+004	N/A	6.67e+004	5.80	N/A
140	MDI0255-06 20uL	Unknown	9/18/2023 12:06:	091523_perc\	1.00	Perc C35	1.71e+005	N/A	6.67e+004	6.17	N/A
141	CCV 5 ppb	Unknown	9/18/2023 12:13:	091523_perc\	1.00	Perc C37	5.26e+004	N/A	6.93e+004	5.32	N/A
142	CCV 5 ppb	Unknown	9/18/2023 12:13:	091523_perc\	1.00	Perc C35	1.65e+005	N/A	6.93e+004	5.72	N/A

BDI0119
BDI0120

Starting sequence Wed Sep 06 08:44:13 2023

Instrument Name: 5975
Sequence File: C:\msdchem\1\sequence\090523.S
Comment:
Operator: BP
Data Path: C:\MSDCHEM\1\DATA\2023\SEP\06\
Method Path: C:\MSDCHEM\1\METHODS\

BP 9/7/23

Line	Type	Vial	DataFile	Method	Sample Name
1)	Sample	1	00101001	DWVOC	RINSE
2)	Sample	2	00201002	DWVOC	BLANK
3)	Sample	3	00301003	DWVOC	10 PPB CEVE CCV
4)	Sample	4	00401004	DWVOC	20 PPB AAA CCV
5)	Sample	5	00501005	DWVOC	10 PPB VOC CCV
6)	Sample	6	00601006	DWVOC	RINSE
7)	Sample	7	00701007	DWVOC	MDI0024-01
8)	Sample	8	00801008	DWVOC	MDI0036-01
9)	Sample	9	00901009	DWVOC	MDI0024-05
10)	Sample	10	01001010	DWVOC	MDI0025-12
11)	Sample	11	01101011	DWVOC	MDI0036-04
12)	Sample	12	01201012	DWVOC	MDI0024-02
13)	Sample	13	01301013	DWVOC	MDI0024-03
14)	Sample	14	01401014	DWVOC	MDI0024-04
15)	Sample	15	01501015	DWVOC	MDI0036-02
16)	Sample	16	01601016	DWVOC	MDI0036-03
17)	Sample	17	01701017	DWVOC	MDH0998-02
18)	Sample	18	01801018	DWVOC	MDH0993-01
19)	Sample	19	01901019	DWVOC	MDI0011-01
20)	Sample	20	02001020	DWVOC	MDI0011-02
21)	Sample	21	02101021	DWVOC	MDI0011-03
22)	Sample	22	02201022	DWVOC	MDI0011-04
23)	Sample	23	02301023	DWVOC	RINSE
24)	Sample	24	02401024	DWVOC	MDI0024-01 MS
25)	Sample	25	02501025	DWVOC	MDI0024-01 MSD
26)	Sample	26	02601026	DWVOC	RINSE
27)	Sample	27	02701027	DWVOC	MDI0036-01 MS
28)	Sample	28	02801028	DWVOC	MDI0036-01 MSD
29)	Sample	29	02901029	DWVOC	RINSE
30)	Sample	30	03001030	DWVOC	10 PPB VOC CCV
31)	Sample	31	03101031	DWVOC	RINSE
32)	Sample	32	03201032	DWVOC	MDI0011-05
33)	Sample	33	03301033	DWVOC	MDI0011-06
34)	Sample	34	03401034	DWVOC	MDI0011-07 03
35)	Sample	35	03501035	DWVOC	MDI0011-01 MS 03
36)	Sample	36	03601036	DWVOC	MDI0011-01 MSD
37)	Sample	37	03701037	DWVOC	RINSE
38)	Sample	38	03801038	DWVOC	10 PPB VOC CCV
39)	Sample	39	03901039	DWVOC	RINSE

EE BHP 9/7/23

```
 40) Sample        40  04001040  DWVOC     2 PPB CEVE ICAL
 41) Sample        41  04101041  DWVOC     5 PPB CEVE ICAL
 42) Sample        42  04201042  DWVOC     10 PPB CEVE ICAL
 43) Sample        43  04301043  DWVOC     20 PPB CEVE ICAL
 44) Sample        44  04401044  DWVOC     40 PPB CEVE ICAL

Sequence completed Thu Sep 07 08:33:51 2023

  C:\MSDCHEM\1\DATA\2023\SEP\06\2023 Sep 06 0844 Quality Log.LOG
  C:\MSDCHEM\1\DATA\2023\SEP\06\2023 Sep 06 0844 Sequence Log .LOG
```

QC Checklist for EPA 8260/624.1 - VOCs

Analysis Date: 9/6/23

☒	QC Parameter	Acceptance Criteria	Frequency	Notes
X	BFB Tune	See below		
X	Initial Calibration	90% must meet <20%RSD	At least 6 points	If regression is used, weight as 1/x, with $R^2 > 0.920$
X	Initial Calibration	Reprocessed cal points must be within 70-130%		
X	Response Factor	Check against list on back		Include CCV RF report in data packet
X	Internal Standard	50-200% of mid-point CAL	All samples	
X	Surrogate Recovery	85-115%	All samples	
X	ICV/QCS	70-130%	Each ICAL	
X	Blanks	No interferences	Every 20 samples	
X	CCV	80% within ±20%	At beginning of run and every 12 hours.	
X	MS/MSD	±20%	Every 20 samples	

X	Cal Prep Form Present			
X	pH/Chlorine checks	pH<2 THM Chlorine check	All samples	
X	Dilutions Noted?			

Comments:

m/z	Required Intensity (relative abundance)
50	15 to 40% of *m/z* 95
75	30 to 60% of *m/z* 95
95	Base peak, 100% relative abundance
96	5 to 9% of *m/z* 95
173	Less than 2% of *m/z* 174
174	50 to 200% of *m/z* 95
175	5 to 9% of *m/z* 174
176	95% to 101% of *m/z* 174
177	5 to 9% of *m/z* 176

Analyst: BMP Checklist Completed Date: 9/7/23

Reviewed By: [signature] *Date:* 9/7/23

Anatek Labs, Inc.

RF Factor Table for EPA 8260/624.1 - VOCs

Analyte	RF	Check if <	Analyte	RF	Check if <
1,1,1-Trichloroethane	0.05		Carbon tetrachloride	0.1	
1,1,2,2-Tetrachloroethane	0.2		Chlorobenzene	0.4	
1,1,2-Trichloroethane	0.2		Chlorodibromomethane	0.2	
1,1-Dichloroethane	0.3		Chloroethane (Ethyl chloride)	0.01	
1,1-Dichloroethylene	0.06		Chloroform	0.3	
1,2,3-Trichloropropane	0.4		cis-1,2-Dichloroethylene	0.2	
1,2,4-Trichlorobenzene	0.4		cis-1,3-Dichloropropene	0.3	
1,2-Dibromo-3-chloropropane (DBCP)	0.01		Ethylbenzene	0.4	
1,2-Dibromoethane (EDB, Ethylene dibromide)	0.2		Isopropylbenzene	0.4	
1,2-Dichlorobenzene	0.6		m+p-xylene	0.2	
1,2-Dichloroethane (Ethylene dichloride)	0.07		Methyl bromide (Bromomethane)	0.01	
1,2-Dichloropropane	0.2		Methyl chloride (Chloromethane)	0.01	
1,3-Dichlorobenzene	0.5		Methyl tert-butyl ether (MTBE)	0.1	
1,4-Dichlorobenzene	0.6		o-Xylene	0.2	
2-Butanone (Methyl ethyl ketone, MEK)	0.01		Styrene	0.2	
2-Hexanone	0.01		Tetrachloroethylene (Perchloroethylene)	0.1	
4-Methyl-2-pentanone (MIBK)	0.03		Toluene	0.3	
Acetone	0.01		trans-1,2-Dichloroethylene	0.1	
Benzene	0.2		trans-1,3-Dichloropropylene	0.3	
Bromochloromethane	0.1		Trichloroethene (Trichloroethylene)	0.2	
Bromodichloromethane	0.3		Trichlorofluoromethane (Freon 11)	0.01	
Bromoform	0.1		Vinyl chloride	0.01	
Carbon disulfide	0.1				

Taken from Table 4, EPA Method 8260D

Anatek Labs, Inc
1282 Alturas Drive
Moscow, ID 83843

Calibration Standard Preparation Form

Method: EPA 8260/624.1

Initial Calibration and CCV Standard Number: 2302582
Initial Calibration and CCV Standard Concentration: 200 ug/mL
Initial Calibration and CCV Standard Expiration Date: 2/28/2026

Matrix Spiking Standard Number: 2302582
Matrix Spiking Standard Concentration: 200 ug/ml
Matrix Spiking Standards Expiration Dates: 2/28/2026

Initial Calibration Verification (ICV) Standard Number: 2301142
Initial Calibration Verification (ICV) Standard Concentration: 200 ug/ml
Initial Calibration Verification (ICV) Expiration Date: 5/31/2025

Internal Standard / Surrogate Standard Number: 2204337
Internal Standard / Surrogate Standard Concentration: 125 ug/ml
Internal Standard / Surrogate Standard Sample Concentration: Archon adds 125 ng to 5 ml
Expiration Date: 01/04/2024

Initial Calibration Dilution Template (minimum of 5 calibration points)

Desired Concentration (ppb)	Stock Concentration (ppm)	uL Standard Added	Final Volume (mL)
30	200	7.5	50
20	200	5	50
15	200	7.5	100
10	200	5.0	100
5	200	2.5	100
2	200	1.0	100
0.5	10 ppb Cal std	5 ml	100
ICV 10	**200**	**5**	**100**

Add 2 drops of 1:1 HCl per 50mL to Standards, CCV, ICV, and Reagent Blanks.

Calibration Prep:
ICAL and ICV Prep Date: **9/5/2023**

Solution Prepared:

- X CCV
- X MS/MSD
- X pH check
- X Chlorine check (THM)

pH paper reagent # 2002327
Free Chlorine Test strip reagent# 2103033

Analyst: BWP Date of Preparation: 9/6/23

PREPARATION BENCH SHEET

BDI0119

Matrix: Water **Prepared using: VOC - VOC** **Surrogate used: 2204337**

Lab Number	Analysis	Prepared - By	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	Client	Extraction Comments
MDI0036-01	VOC 8260	09/06/23 12:45-BKP	50	50				10	PBS Engineering - Portland	
MDI0024-01	VOC Trip Blank	09/06/23 09:46-BKP	50	50				10	PBS Engineering - Portland	Added for BatchQC in: BDI0119
MDI0036-01	VOC Trip Blank 8260	09/06/23 09:46-BKP	50	50				10	PBS Engineering - Portland	Added for BatchQC in: BDI0119
MDI0036-01	VOC Trip Blank	09/06/23 09:46-BKP	50	50				10	PBS Engineering - Portland	Added for BatchQC in: BDI0119
MDH0998-02	VOC 8260	09/06/23 17:37-BKP	50	50				10	PBS Engineering - Portland	
MDI0024-01	VOC 8260	09/06/23 12:13-BKP	50	50				10	PBS Engineering - Portland	
MDI0024-02	VOC 8260	09/06/23 14:55-BKP	50	50				10	PBS Engineering - Portland	
MDI0024-03	VOC 8260	09/06/23 15:28-BKP	50	50				10	PBS Engineering - Portland	
MDI0024-04	VOC 8260	09/06/23 16:00-BKP	50	50				10	PBS Engineering - Portland	
MDI0024-01	VOC Trip Blank 8260	09/06/23 09:46-BKP	50	50				10	PBS Engineering - Portland	Added for BatchQC in: BDI0119
MDI0025-12	VOC Trip Blank	09/06/23 13:51-BKP	50	50				10	PBS Engineering - Portland	
BDI0119-MSD2	QC	09/06/23 23:34-BKP	50	50	2302582	MDI0036-01	2.5	10		
MDI0036-02	VOC 8260	09/06/23 16:33-BKP	50	50				10	PBS Engineering - Portland	
MDI0036-03	VOC 8260	09/06/23 17:05-BKP	50	50				10	PBS Engineering - Portland	
MDI0036-04	VOC Trip Blank 8260	09/06/23 14:23-BKP	50	50				10	PBS Engineering - Portland	
BDI0119-BLK1	QC	09/06/23 09:31-BKP	50	50				10		
BDI0119-BS1	QC	09/06/23 11:08-BKP	50	50	2302582		2.5	10		
BDI0119-MS1	QC	09/06/23 21:25-BKP	50	50	2302582	MDI0024-01	2.5	10		
BDI0119-MS2	QC	09/06/23 23:02-BKP	50	50	2302582	MDI0036-01	2.5	10		
BDI0119-MSD1	QC	09/06/23 21:57-BKP	50	50	2302582	MDI0024-01	2.5	10		
MDI0024-05	VOC Trip Blank	09/06/23 13:18-BKP	50	50				10	PBS Engineering - Portland	

Support Info: P-Syringe(s) BAL-09

Reagent	Description	LotNum

B.Ft 9/7/23 9/6/23

Prepared By: Date Analytical Run Date:

PREPARATION BENCH SHEET

BDI0120

Matrix: Solid **Prepared using: VOC - VOC** **Surrogate used: 2204337**

Lab Number	Analysis	Prepared - By	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	Client	Extraction Comments
BDI0120-BLK1	QC	09/06/23 08:00-BKP	10	500				100		
BDI0120-BS1	QC	09/06/23 08:00-BKP	10	500	2302582		25	100		
BDI0120-MS1	QC	09/06/23 08:00-BKP	5.5	500	2302582	MDI0011-03	25	100		
BDI0120-MSD1	QC	09/06/23 08:00-BKP	5.5	500	2302582	MDI0011-03	25	100		
MDH0993-01	VOC 8260	09/06/23 09:47-BKP	5.36	500				100	IAS-EnviroChem	
MDI0011-01	VOC 8260	09/06/23 09:47-BKP	7.78	500				100	Newmont Suriname LLC	Reference: MCA0481
MDI0011-02	VOC 8260	09/06/23 09:47-BKP	6.06	500				100	Newmont Suriname LLC	Reference: MCA0481
MDI0011-03	VOC 8260	09/06/23 09:47-BKP	5.5	500				100	Newmont Suriname LLC	Reference: MCA0481
MDI0011-04	VOC 8260	09/06/23 09:47-BKP	6.29	500				100	Newmont Suriname LLC	Reference: MCA0481
MDI0011-05	VOC 8260	09/06/23 09:47-BKP	7.2	500				100	Newmont Suriname LLC	Reference: MCA0481
MDI0011-06	VOC 8260	09/06/23 09:47-BKP	6.32	500				100	Newmont Suriname LLC	Reference: MCA0481
MDI0011-07	VOC 8260	09/06/23 09:47-BKP	8.17	500				100	Newmont Suriname LLC	Reference: MCA0481

Support Info: P-Syringe(s) BAL-09

Reagent	Description	LotNum

BA 9/7/23 9/6/23

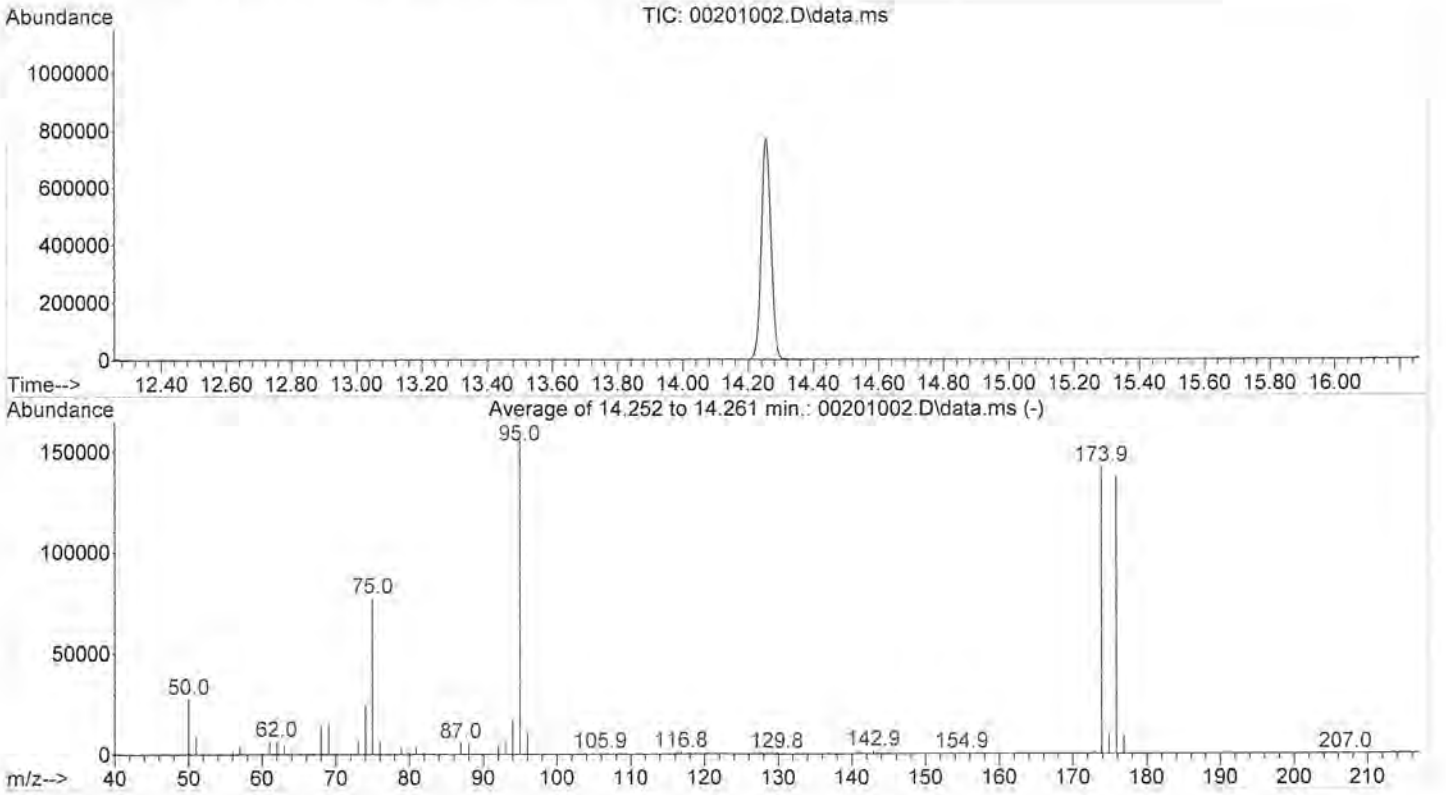
Prepared By: Date Analytical Run Date:

BFB

Data Path : T:\Data2\Voc\HP5975_VOC2\2023Data\SEP\06\
Data File : 00201002.D
Acq On : 6 Sep 2023 9:31 am
Operator : BP
Sample : BLANK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: rteint.p

Method : T:\Data2\Voc\HP5975_VOC2\2023Method\SEP05 8260.M
Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
Last Update : Tue Sep 05 13:56:46 2023



AutoFind: Scans 2161, 2162, 2163; Background Corrected with Scan 2147

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.5	27515	PASS
75	95	30	60	49.0	77099	PASS
95	95	100	100	100.0	157205	PASS
96	95	5	9	6.7	10479	PASS
173	174	0.00	2	0.6	789	PASS
174	95	50	200	90.4	142080	PASS
175	174	5	9	6.9	9860	PASS
176	174	95	105	96.6	137195	PASS
177	176	5	9	6.6	8991	PASS

Response Factor Report 5975

Method Path : T:\Data2\Voc\HP5975_VOC2\2023Method\
Method File : SEP05 8260.M
Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
Last Update : Tue Sep 05 13:56:46 2023
Response Via : Initial Calibration

Calibration Files
0.5 =00401004.D 5 =00601006.D 10 =00701007.D 30 =01001010.D 20 =00901009.D 2 =00501005.D 15 =00801008.D

	Compound	0.5	5	10	30	20	2	15	Avg	%RSD
1) I	Fluorobenzene	----------	ISTD	----------						
2) S	1,2-Dichloroet...	0.299	0.298	0.291	0.271	0.279	0.300	0.282	0.288	3.95
3)	Dichlorodifluo...	0.098	0.124	0.123	0.103	0.116	0.077	0.120	0.109	15.74
4)	Chloromethane	0.124	0.102	0.100	0.084	0.091	0.093	0.099	0.099#	12.76
5)	Vinyl chloride	0.097	0.114	0.114	0.096	0.107	0.086	0.112	0.104	10.59
6)	Bromomethane	0.136	0.096	0.094	0.076	0.086	0.099	0.090	0.096#	19.76
7)	Chloroethane	0.079	0.083	0.069	0.063	0.074	0.073	0.083	0.075#	10.09
8)	Trichlorofluor...	0.173	0.213	0.217	0.179	0.200	0.138	0.208	0.190	14.90
9)	Diethyl ether	0.083	0.079	0.091	0.086	0.093	0.066	0.092	0.084#	11.37
10)	1,1-Dichloroet...	0.133	0.152	0.161	0.144	0.157	0.110	0.158	0.145	12.57
11)	Acetone	0.051	0.056	0.036	0.044	0.071	0.046	0.051#		23.80
12)	Methyl iodide	0.082	0.099	0.105	0.110	0.065	0.110	0.095#		19.12
13)	Carbon disulfide	0.315	0.338	0.349	0.306	0.335	0.266	0.345	0.322	9.06
14)	Methylene chlo...	0.155	0.126	0.127	0.110	0.122	0.116	0.125	0.126	11.35
15)	MTBE (2-methox...	0.323	0.339	0.310	0.336	0.358	0.337	0.334		4.90
16)	trans-1,2-Dich...	0.144	0.161	0.173	0.152	0.169	0.135	0.172	0.158	9.27
17)	Acrylonitrile	0.055	0.066	0.057	0.064	0.054	0.064	0.060#		8.91
18)	1,1-Dichloroet...	0.211	0.213	0.219	0.193	0.213	0.188	0.220	0.208	6.04
19)	Methyl ethyl k...	0.053	0.056	0.052	0.056	0.040	0.058	0.052#		12.35
20)	2,2-Dichloropr...	0.166	0.175	0.159	0.173	0.130	0.178	0.163		10.85
21)	cis-1,2-Dichlo...	0.100	0.109	0.122	0.118	0.126	0.095	0.126	0.114	11.14
22)	Bromochloromet...	0.077	0.081	0.083	0.073	0.080	0.070	0.081	0.078#	5.96
23)	Chloroform	0.221	0.224	0.229	0.198	0.219	0.202	0.228	0.217	5.64
24) S	Dibromofluorom...	0.262	0.264	0.262	0.255	0.257	0.263	0.259	0.260	1.19
25)	1,1,1-Trichlor...	0.180	0.200	0.203	0.177	0.194	0.155	0.202	0.187	9.42
26)	1,1-Dichloropr...	0.106	0.156	0.173	0.159	0.173	0.100	0.175	0.149	21.62
27)	Carbon tetrach...	0.152	0.176	0.179	0.155	0.171	0.128	0.178	0.163	11.47
28)	Benzene	0.455	0.483	0.508	0.458	0.499	0.411	0.512	0.475	7.69
29)	1,2-Dichloroet...	0.202	0.172	0.177	0.150	0.166	0.164	0.174	0.172	9.22
30)	Trichloroethene	0.113	0.120	0.127	0.121	0.129	0.099	0.130	0.120	9.09
31)	1,2-Dichloropr...	0.100	0.109	0.117	0.110	0.117	0.091	0.120	0.109	9.48

Method Path : T:\Data2\Voc\HP5975_VOC2\2023Method\
Method File : SEP05 8260.M

32)	S	Toluene-d8	0.971	0.996	1.003	1.003	0.999	0.978	1.003	0.993	1.32
33)		Dibromomethane	0.079	0.081	0.086	0.079	0.086	0.071	0.086	0.081#	6.63
34)		Bromodichlorom...	0.141	0.150	0.159	0.143	0.156	0.134	0.160	0.149	6.69
35)		cis-1,3-Dichlo...	0.109	0.135	0.162	0.170	0.179	0.106	0.175	0.148	21.09
36)		Methyl isobuty...	0.093	0.114	0.125	0.131	0.069	0.127	0.110		21.83
37)		Toluene	0.442	0.490	0.525	0.483	0.528	0.407	0.538	0.488	9.93
38)	I	Chlorobenzene-d5	----------ISTD----------								
39)		trans-1,3-Dich...	0.114	0.134	0.164	0.162	0.178	0.115	0.167	0.148	17.92
40)		1,1,2-Trichlor...	0.102	0.110	0.117	0.103	0.117	0.098	0.112	0.108	7.13
41)		Tetrachloroethene	0.133	0.156	0.167	0.145	0.165	0.126	0.158	0.150	10.46
42)		2-Hexanone	0.067	0.085	0.088	0.097	0.052	0.087	0.079#		20.89
43)		1,3-Dichloropr...	0.152	0.176	0.199	0.180	0.203	0.150	0.194	0.179	12.16
44)		Dibromochlorom...	0.107	0.111	0.121	0.110	0.123	0.102	0.118	0.113	6.87
45)		1,2-Dibromoethane	0.081	0.104	0.116	0.106	0.119	0.092	0.113	0.105	13.06
46)		Chlorobenzene	0.383	0.366	0.362	0.312	0.370	0.356	0.377	0.361	6.44
47)		1,1,1,2-Tetrac...	0.112	0.122	0.130	0.115	0.130	0.112	0.126	0.121	6.68
48)		Ethylbenzene	0.352	0.494	0.587	0.550	0.619	0.364	0.587	0.508	21.54
49)		m+p-Xylene	0.099	0.166	0.218	0.216	0.242	0.116	0.226	0.184	31.08
50)		o-Xylene	0.199	0.333	0.436	0.432	0.484	0.232	0.453	0.367	31.04
51)		Styrene	0.138	0.285	0.363	0.348	0.389	0.176	0.367	0.295	34.09
52)		Bromoform	0.069	0.075	0.083	0.079	0.087	0.070	0.082	0.078#	8.65
53)		Isopropylbenzene	0.213	0.392	0.523	0.523	0.583	0.233	0.545	0.430	35.67
54)	S	Bromofluoroben...	0.463	0.502	0.513	0.492	0.517	0.505	0.490	0.497	3.62
55)		Bromobenzene	0.125	0.141	0.157	0.145	0.162	0.123	0.156	0.144	10.75
56)		n-Propylbenzene	0.334	0.619	0.745	0.679	0.771	0.383	0.737	0.610	29.37
57)		1,3,5-Trimethy...	0.167	0.415	0.521	0.490	0.547	0.235	0.526	0.414	36.99
58)		2-Chlorotoluene	0.334	0.619	0.745	0.678	0.770	0.383	0.737	0.609	29.35
59)		4-Chlorotoluene	0.231	0.469	0.542	0.475	0.544	0.325	0.528	0.445	27.15
60)		tert-Butylbenzene	0.115	0.215	0.277	0.266	0.295	0.125	0.280	0.225	33.84
61)		1,1,2,2-Tetrac...	0.151	0.164	0.175	0.153	0.175	0.150	0.169	0.162	6.88
62)		trans-1,4-Dich...	0.040	0.048	0.044	0.051	0.034	0.048	0.044#		14.07
63)		1,2,3-Trichlor...	0.056	0.056	0.060	0.051	0.058	0.051	0.057	0.056#	6.39
64)		1,2,4-Trimethy...	0.167	0.415	0.521	0.490	0.547	0.235	0.526	0.414	36.98
65)		sec-Butylbenzene	0.217	0.513	0.661	0.626	0.695	0.276	0.659	0.521	37.76
66)		4-Isopropyltol...	0.293	0.504	0.599	0.558	0.625	0.337	0.600	0.502	26.73
67)	I	1,4-Dichlorobenzen...	----------ISTD----------								
68)	S	1,2-Dichlorobe...	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.00
69)		1,3-Dichlorobe...	0.515	0.547	0.573	0.512	0.555	0.499	0.573	0.539	5.65
70)		1,4-Dichlorobe...	0.515	0.547	0.573	0.512	0.555	0.499	0.573	0.539	5.65

Response Factor Report 5975

Method Path : T:\Data2\Voc\HP5975_VOC2\2023Method\
Method File : SEP05 8260.M

71)	1,2-Dichlorobe...	0.495	0.511	0.533	0.478	0.519	0.464	0.536	0.505	5.40
72)	n-butylbenzene	0.520	0.815	0.946	0.878	0.946	0.536	0.960	0.800	24.07
73)	1,2-Dibromo-3-...	0.041	0.049	0.056	0.057	0.061	0.042	0.060	0.052#	15.78
74)	1,2,4-Trichlor...	0.165	0.215	0.271	0.306	0.309	0.167	0.295	0.247	25.80
75)	Hexachlorobuta...	0.125	0.166	0.184	0.162	0.169	0.118	0.176	0.157	16.36
76)	Naphthalene	0.275	0.413	0.618	0.766	0.782	0.273	0.737	0.552	41.24
77)	1,2,3-Trichlor...	0.151	0.214	0.263	0.282	0.294	0.160	0.286	0.236	25.75

(#) = Out of Range

Quantitation Report (Not Reviewed)

Data Path : T:\Data2\Voc\HP5975_VOC2\2023Data\SEP\06\
Data File : 00201002.D
Acq On : 6 Sep 2023 9:31 am
Operator : BP
Sample : BLANK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 06 12:55:43 2023
Quant Method : T:\Data2\Voc\HP5975_VOC2\2023Method\SEP05 8260.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Tue Sep 05 13:56:46 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.480	96	739528	20.00	ppb	0.00
38) Chlorobenzene-d5	12.203	117	709657	20.00	ppb	0.00
67) 1,4-Dichlorobenzene-d4	16.939	152	407805	20.00	ppb	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4	7.022	65	221016	20.72	ppb	0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 103.60%			
24) Dibromofluoromethane	6.557	111	197210	20.49	ppb	0.00
Spiked Amount 20.000			Recovery = 102.45%			
32) Toluene-d8	9.857	98	716834	19.52	ppb	0.00
Spiked Amount 20.000			Recovery = 97.60%			
54) Bromofluorobenzene	14.255	95	336377	19.06	ppb	0.00
Spiked Amount 20.000			Recovery = 95.30%			
68) 1,2-Dichlorobenzene-d4	16.939	152	407805	20.00	ppb	0.00
Spiked Amount 20.000			Recovery = 100.00%			
Target Compounds						Qvalue
4) Chloromethane	1.946	50	95	Below Cal	#	2
11) Acetone	3.608	43	2903	0.95	ppb	95
15) MTBE (2-methoxy-2-meth...	4.488	73	11054	~~0.85~~	~~ppb~~	81

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SEP05 8260.M Wed Sep 06 12:55:44 2023

Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975_VOC2\2023Data\SEP\06\
Data File : 00501005.D
Acq On : 6 Sep 2023 11:08 am
Operator : BP
Sample : 10 PPB VOC CCV
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 06 11:48:10 2023
Quant Method : T:\Data2\Voc\HP5975_VOC2\2023Method\SEP05 8260.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Tue Sep 05 13:56:46 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	7.480	96	727093	20.00	ppb		0.00
38) Chlorobenzene-d5	12.203	117	721087	20.00	ppb		0.00
67) 1,4-Dichlorobenzene-d4	16.939	152	437915	20.00	ppb		0.00
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4	7.021	65	217467	20.74	ppb		0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 103.70%				
24) Dibromofluoromethane	6.557	111	196952	20.81	ppb		0.00
Spiked Amount 20.000			Recovery = 104.05%				
32) Toluene-d8	9.856	98	746591	20.68	ppb		0.00
Spiked Amount 20.000			Recovery = 103.40%				
54) Bromofluorobenzene	14.254	95	369853	20.62	ppb		0.00
Spiked Amount 20.000			Recovery = 103.10%				
68) 1,2-Dichlorobenzene-d4	16.939	152	437915	20.00	ppb		0.00
Spiked Amount 20.000			Recovery = 100.00%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.733	85	43723	10.17	ppb		98
4) Chloromethane	1.940	50	36984	11.05	ppb		97
5) Vinyl chloride	2.037	62	42079	11.18	ppb		95
6) Bromomethane	2.403	96	34815	10.20	ppb		99
7) Chloroethane	2.526	64	31250	12.02	ppb		97
8) Trichlorofluoromethane	2.816	101	77124	11.18	ppb		98
9) Diethyl ether	3.185	59	30473	9.94	ppb		81
10) 1,1-Dichloroethene	3.462	61	54956	10.43	ppb		95
11) Acetone	3.574	43	18364	9.65	ppb		86
12) Methyl iodide	3.643	142	30071	8.49	ppb		95
13) Carbon disulfide	3.713	76	127151	10.86	ppb		100
14) Methylene chloride	4.130	84	46439	10.61	ppb		95
15) MTBE (2-methoxy-2-meth...	4.487	73	109466	8.82	ppb		84
16) trans-1,2-Dichloroethene	4.479	61	61459	10.69	ppb		90
17) Acrylonitrile	4.484	53	23153	10.10	ppb		91
18) 1,1-Dichloroethane	5.075	63	79086	10.45	ppb		96
19) Methyl ethyl ketone	6.720	43	20259	10.11	ppb		66
20) 2,2-Dichloropropane	5.852	77	59389	9.50	ppb		99
21) cis-1,2-Dichloroethene	5.858	96	41202	9.95	ppb		98
22) Bromochloromethane	6.180	130	29697	10.48	ppb		99
23) Chloroform	6.340	83	83921	10.78	ppb		97
25) 1,1,1-Trichloroethane	6.536	97	73306	10.77	ppb		95
26) 1,1-Dichloropropene	6.763	75	61378	11.32	ppb		81
27) Carbon tetrachloride	6.742	117	64962	10.74	ppb		97
28) Benzene	7.036	78	182736	10.58	ppb		99
29) 1,2-Dichloroethane	7.131	62	64438	10.30	ppb		96
30) Trichloroethene	8.002	130	43928	10.09	ppb		89
31) 1,2-Dichloropropane	8.384	63	40984	10.33	ppb		95
33) Dibromomethane	8.511	174	31017	10.49	ppb	#	57
34) Bromodichloromethane	8.794	83	56375	9.92	ppb		96
35) cis-1,3-Dichloropropene	9.464	75	52698	8.98	ppb		81
36) Methyl isobutyl ketone	9.727	43	38015	8.97	ppb		89

37)	Toluene	9.960	91	188592	10.64 ppb		98
39)	trans-1,3-Dichloropropene	10.374	75	51842	9.12 ppb		84
40)	1,1,2-Trichloroethane	10.675	97	41156	10.53 ppb		87
41)	Tetrachloroethene	10.763	166	56083	10.37 ppb		92
42)	2-Hexanone	11.067	43	26984	8.57 ppb		91
43)	1,3-Dichloropropane	10.926	76	66498	10.30 ppb		98
44)	Dibromochloromethane	11.258	129	40658	9.73 ppb		99
45)	1,2-Dibromoethane	11.423	107	38545	10.23 ppb		98
46)	Chlorobenzene	12.249	112	135649	10.43 ppb		85
47)	1,1,1,2-Tetrachloroethane	12.420	131	44922	10.30 ppb		98
48)	Ethylbenzene	12.440	91	195574	10.69 ppb		92
49)	m+p-Xylene	13.318	91	139445	21.07 ppb		83
50)	o-Xylene	13.318	91	138988	10.51 ppb		87
51)	Styrene	13.357	104	122517	11.51 ppb		80
52)	Bromoform	13.637	173	27811	9.45 ppb		94
53)	Isopropylbenzene	13.970	105	166728	10.75 ppb		99
55)	Bromobenzene	14.466	156	53478	10.29 ppb	#	65
56)	n-Propylbenzene	14.701	91	252296	11.48 ppb		90
57)	1,3,5-Trimethylbenzene	15.699	105	175083	11.72 ppb		90
58)	2-Chlorotoluene	14.701	91	252296	11.48 ppb	#	32
59)	4-Chlorotoluene	15.049	91	187287	11.68 ppb	#	85
60)	tert-Butylbenzene	15.587	91	89846	11.09 ppb	#	73
61)	1,1,2,2-Tetrachloroethane	14.554	83	62050	10.60 ppb		93
62)	trans-1,4-Dichloro-2-b...	14.621	53	16036	9.53 ppb		94
63)	1,2,3-Trichloropropane	14.621	110	20753	10.37 ppb		94
64)	1,2,4-Trimethylbenzene	15.699	105	175083	11.72 ppb		92
65)	sec-Butylbenzene	15.988	105	218487	11.63 ppb		92
66)	4-Isopropyltoluene	16.288	119	200893	11.10 ppb		96
69)	1,3-Dichlorobenzene	16.344	146	119606	10.13 ppb		97
70)	1,4-Dichlorobenzene	16.344	146	119606	10.13 ppb		96
71)	1,2-Dichlorobenzene	16.971	146	111416	10.08 ppb		95
72)	n-butylbenzene	17.019	91	193333	11.04 ppb	#	89
73)	1,2-Dibromo-3-chloropr...	18.418	157	11005	8.74 ppb		97
74)	1,2,4-Trichlorobenzene	19.903	180	48508	8.97 ppb		99
75)	Hexachlorobutadiene	20.204	225	38055	11.07 ppb		95
76)	Naphthalene	20.366	128	110987	8.58 ppb		97
77)	1,2,3-Trichlorobenzene	20.776	180	50470	9.78 ppb		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SEP05 8260.M Wed Sep 06 12:55:15 2023

Quantitation Report (Not Reviewed)

Data Path : T:\Data2\Voc\HP5975_VOC2\2023Data\SEP\06\
Data File : 00701007.D
Acq On : 6 Sep 2023 12:13 pm
Operator : BP
Sample : MDI0024-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 06 13:24:38 2023
Quant Method : T:\Data2\Voc\HP5975_VOC2\2023Method\SEP05 8260.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Tue Sep 05 13:56:46 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.481	96	708676	20.00	ppb	0.00
38) Chlorobenzene-d5	12.203	117	708358	20.00	ppb	0.00
67) 1,4-Dichlorobenzene-d4	16.939	152	392316	20.00	ppb	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4	7.022	65	212982	20.84	ppb	0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 104.20%			
24) Dibromofluoromethane	6.558	111	190708	20.67	ppb	0.00
Spiked Amount 20.000			Recovery = 103.35%			
32) Toluene-d8	9.857	98	686591	19.51	ppb	0.00
Spiked Amount 20.000			Recovery = 97.55%			
54) Bromofluorobenzene	14.255	95	323266	18.35	ppb	0.00
Spiked Amount 20.000			Recovery = 91.75%			
68) 1,2-Dichlorobenzene-d4	16.939	152	392316	20.00	ppb	0.00
Spiked Amount 20.000			Recovery = 100.00%			
Target Compounds						Qvalue
4) Chloromethane	1.934	50	709	Below Cal		76
11) Acetone	3.580	43	8788	4.16	ppb	74

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SEP05 8260.M Wed Sep 06 13:24:39 2023

Quantitation Report (Not Reviewed)

Data Path : T:\Data2\Voc\HP5975_VOC2\2023Data\SEP\06\
Data File : 00801008.D
Acq On : 6 Sep 2023 12:45 pm
Operator : BP
Sample : MDI0036-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 06 13:24:55 2023
Quant Method : T:\Data2\Voc\HP5975_VOC2\2023Method\SEP05 8260.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Tue Sep 05 13:56:46 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.481	96	696994	20.00	ppb	0.00
38) Chlorobenzene-d5	12.203	117	679668	20.00	ppb	0.00
67) 1,4-Dichlorobenzene-d4	16.939	152	392927	20.00	ppb	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4	7.023	65	213911	21.28	ppb	0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 106.40%			
24) Dibromofluoromethane	6.558	111	188534	20.78	ppb	0.00
Spiked Amount 20.000			Recovery = 103.90%			
32) Toluene-d8	9.857	98	677897	19.59	ppb	0.00
Spiked Amount 20.000			Recovery = 97.95%			
54) Bromofluorobenzene	14.255	95	320080	18.93	ppb	0.00
Spiked Amount 20.000			Recovery = 94.65%			
68) 1,2-Dichlorobenzene-d4	16.939	152	392927	20.00	ppb	0.00
Spiked Amount 20.000			Recovery = 100.00%			
Target Compounds						Qvalue
11) Acetone	3.601	43	3679	1.45	ppb	70

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : T:\Data2\Voc\HP5975_VOC2\2023Data\SEP\06\
Data File : 00901009.D
Acq On : 6 Sep 2023 1:18 pm
Operator : BP
Sample : MDI0024-05
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 06 14:41:00 2023
Quant Method : T:\Data2\Voc\HP5975_VOC2\2023Method\SEP05 8260.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Tue Sep 05 13:56:46 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.481	96	689545	20.00	ppb	0.00
38) Chlorobenzene-d5	12.203	117	686290	20.00	ppb	0.00
67) 1,4-Dichlorobenzene-d4	16.939	152	387514	20.00	ppb	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4	7.022	65	210272	21.14	ppb	0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 105.70%			
24) Dibromofluoromethane	6.558	111	187059	20.84	ppb	0.00
Spiked Amount 20.000			Recovery = 104.20%			
32) Toluene-d8	9.857	98	669633	19.56	ppb	0.00
Spiked Amount 20.000			Recovery = 97.80%			
54) Bromofluorobenzene	14.255	95	316705	18.55	ppb	0.00
Spiked Amount 20.000			Recovery = 92.75%			
68) 1,2-Dichlorobenzene-d4	16.939	152	387514	20.00	ppb	0.00
Spiked Amount 20.000			Recovery = 100.00%			
Target Compounds						Qvalue
4) Chloromethane	1.937	50	569	Below Cal		65
11) Acetone	3.594	43	3435	1.34	ppb	87

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : T:\Data2\Voc\HP5975_VOC2\2023Data\SEP\06\
Data File : 01001010.D
Acq On : 6 Sep 2023 1:51 pm
Operator : BP
Sample : MDI0025-12
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 06 14:41:25 2023
Quant Method : T:\Data2\Voc\HP5975_VOC2\2023Method\SEP05 8260.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Tue Sep 05 13:56:46 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.480	96	692620	20.00	ppb	0.00
38) Chlorobenzene-d5	12.203	117	662461	20.00	ppb	0.00
67) 1,4-Dichlorobenzene-d4	16.939	152	393841	20.00	ppb	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4	7.022	65	214586	21.48	ppb	0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 107.40%			
24) Dibromofluoromethane	6.557	111	189565	21.03	ppb	0.00
Spiked Amount 20.000			Recovery = 105.15%			
32) Toluene-d8	9.857	98	678835	19.74	ppb	0.00
Spiked Amount 20.000			Recovery = 98.70%			
54) Bromofluorobenzene	14.255	95	319349	19.38	ppb	0.00
Spiked Amount 20.000			Recovery = 96.90%			
68) 1,2-Dichlorobenzene-d4	16.939	152	393841	20.00	ppb	0.00
Spiked Amount 20.000			Recovery = 100.00%			
Target Compounds						Qvalue
4) Chloromethane	1.950	50	505	Below Cal	#	29
11) Acetone	3.594	43	4520	1.91	ppb	82

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : T:\Data2\Voc\HP5975_VOC2\2023Data\SEP\06\
Data File : 01101011.D
Acq On : 6 Sep 2023 2:23 pm
Operator : BP
Sample : MDI0036-04
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 06 15:48:42 2023
Quant Method : T:\Data2\Voc\HP5975_VOC2\2023Method\SEP05 8260.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Tue Sep 05 13:56:46 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.480	96	661029	20.00	ppb	0.00
38) Chlorobenzene-d5	12.203	117	660350	20.00	ppb	0.00
67) 1,4-Dichlorobenzene-d4	16.939	152	378291	20.00	ppb	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4	7.022	65	203614	21.36	ppb	0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 106.80%			
24) Dibromofluoromethane	6.557	111	181238	21.06	ppb	0.00
Spiked Amount 20.000			Recovery = 105.30%			
32) Toluene-d8	9.857	98	644801	19.64	ppb	0.00
Spiked Amount 20.000			Recovery = 98.20%			
54) Bromofluorobenzene	14.256	95	302806	18.43	ppb	0.00
Spiked Amount 20.000			Recovery = 92.15%			
68) 1,2-Dichlorobenzene-d4	16.939	152	378291	20.00	ppb	0.00
Spiked Amount 20.000			Recovery = 100.00%			
Target Compounds						Qvalue
4) Chloromethane	1.933	50	418	Below Cal	#	34
11) Acetone	3.587	43	5577	2.62	ppb	88

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : T:\Data2\Voc\HP5975_VOC2\2023Data\SEP\06\
Data File : 01201012.D
Acq On : 6 Sep 2023 2:55 pm
Operator : BP
Sample : MDI0024-02
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 06 15:49:00 2023
Quant Method : T:\Data2\Voc\HP5975_VOC2\2023Method\SEP05 8260.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Tue Sep 05 13:56:46 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	7.480	96	659260	20.00	ppb		0.00
38) Chlorobenzene-d5	12.203	117	680575	20.00	ppb		0.00
67) 1,4-Dichlorobenzene-d4	16.939	152	372560	20.00	ppb		0.00
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4	7.022	65	204071	21.46	ppb		0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 107.30%				
24) Dibromofluoromethane	6.557	111	181661	21.17	ppb		0.00
Spiked Amount 20.000			Recovery = 105.85%				
32) Toluene-d8	9.857	98	639994	19.55	ppb		0.00
Spiked Amount 20.000			Recovery = 97.75%				
54) Bromofluorobenzene	14.256	95	299370	17.68	ppb		0.00
Spiked Amount 20.000			Recovery = 88.40%				
68) 1,2-Dichlorobenzene-d4	16.939	152	372560	20.00	ppb		0.00
Spiked Amount 20.000			Recovery = 100.00%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.732	85	3571	0.87	ppb		92
4) Chloromethane	1.943	50	404	Below Cal		#	12
11) Acetone	3.580	43	6364	3.09	ppb		90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : T:\Data2\Voc\HP5975_VOC2\2023Data\SEP\06\
Data File : 01301013.D
Acq On : 6 Sep 2023 3:28 pm
Operator : BP
Sample : MDI0024-03
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 07 08:30:39 2023
Quant Method : T:\Data2\Voc\HP5975_VOC2\2023Method\SEP05 8260.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Tue Sep 05 13:56:46 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.481	96	662384	20.00	ppb	0.00
38) Chlorobenzene-d5	12.203	117	634369	20.00	ppb	0.00
67) 1,4-Dichlorobenzene-d4	16.939	152	376644	20.00	ppb	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4	7.023	65	206579	21.62	ppb	0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 108.10%			
24) Dibromofluoromethane	6.558	111	183819	21.32	ppb	0.00
Spiked Amount 20.000			Recovery = 106.60%			
32) Toluene-d8	9.858	98	644127	19.58	ppb	0.00
Spiked Amount 20.000			Recovery = 97.90%			
54) Bromofluorobenzene	14.256	95	303725	19.25	ppb	0.00
Spiked Amount 20.000			Recovery = 96.25%			
68) 1,2-Dichlorobenzene-d4	16.939	152	376644	20.00	ppb	0.00
Spiked Amount 20.000			Recovery = 100.00%			
Target Compounds						Qvalue
4) Chloromethane	1.937	50	254	Below Cal	#	1
11) Acetone	3.601	43	5863	2.78	ppb	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SEP05 8260.M Thu Sep 07 08:30:40 2023

Quantitation Report (Not Reviewed)

Data Path : T:\Data2\Voc\HP5975_VOC2\2023Data\SEP\06\
Data File : 01401014.D
Acq On : 6 Sep 2023 4:00 pm
Operator : BP
Sample : MDI0024-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 07 08:31:00 2023
Quant Method : T:\Data2\Voc\HP5975_VOC2\2023Method\SEP05 8260.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Tue Sep 05 13:56:46 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.481	96	662141	20.00	ppb	0.00
38) Chlorobenzene-d5	12.203	117	681840	20.00	ppb	0.00
67) 1,4-Dichlorobenzene-d4	16.939	152	377461	20.00	ppb	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4	7.023	65	206163	21.59	ppb	0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 107.95%			
24) Dibromofluoromethane	6.558	111	183338	21.27	ppb	0.00
Spiked Amount 20.000			Recovery = 106.35%			
32) Toluene-d8	9.857	98	645266	19.63	ppb	0.00
Spiked Amount 20.000			Recovery = 98.15%			
54) Bromofluorobenzene	14.256	95	304718	17.97	ppb	0.00
Spiked Amount 20.000			Recovery = 89.85%			
68) 1,2-Dichlorobenzene-d4	16.939	152	377461	20.00	ppb	0.00
Spiked Amount 20.000			Recovery = 100.00%			
Target Compounds						Qvalue
4) Chloromethane	1.940	50	571	Below Cal	#	42
11) Acetone	3.587	43	2338	0.81	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SEP05 8260.M Thu Sep 07 08:31:00 2023

Quantitation Report (Not Reviewed)

Data Path : T:\Data2\Voc\HP5975_VOC2\2023Data\SEP\06\
Data File : 01501015.D
Acq On : 6 Sep 2023 4:33 pm
Operator : BP
Sample : MDI0036-02
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 07 08:31:12 2023
Quant Method : T:\Data2\Voc\HP5975_VOC2\2023Method\SEP05 8260.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Tue Sep 05 13:56:46 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.481	96	661538	20.00	ppb	0.00
38) Chlorobenzene-d5	12.203	117	663498	20.00	ppb	0.00
67) 1,4-Dichlorobenzene-d4	16.939	152	382462	20.00	ppb	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4	7.022	65	206696	21.66	ppb	0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 108.30%			
24) Dibromofluoromethane	6.558	111	182164	21.15	ppb	0.00
Spiked Amount 20.000			Recovery = 105.75%			
32) Toluene-d8	9.857	98	643895	19.60	ppb	0.00
Spiked Amount 20.000			Recovery = 98.00%			
54) Bromofluorobenzene	14.256	95	305098	18.49	ppb	0.00
Spiked Amount 20.000			Recovery = 92.45%			
68) 1,2-Dichlorobenzene-d4	16.939	152	382462	20.00	ppb	0.00
Spiked Amount 20.000			Recovery = 100.00%			
Target Compounds						Qvalue
11) Acetone	3.594	43	3575	1.49	ppb	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : T:\Data2\Voc\HP5975_VOC2\2023Data\SEP\06\
Data File : 01601016.D
Acq On : 6 Sep 2023 5:05 pm
Operator : BP
Sample : MDI0036-03
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 07 08:31:39 2023
Quant Method : T:\Data2\Voc\HP5975_VOC2\2023Method\SEP05 8260.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Tue Sep 05 13:56:46 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.481	96	652959	20.00	ppb	0.00
38) Chlorobenzene-d5	12.203	117	608740	20.00	ppb	0.00
67) 1,4-Dichlorobenzene-d4	16.939	152	374779	20.00	ppb	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4	7.023	65	203508	21.61	ppb	0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 108.05%			
24) Dibromofluoromethane	6.558	111	180383	21.22	ppb	0.00
Spiked Amount 20.000			Recovery = 106.10%			
32) Toluene-d8	9.858	98	636070	19.62	ppb	0.00
Spiked Amount 20.000			Recovery = 98.10%			
54) Bromofluorobenzene	14.256	95	300084	19.82	ppb	0.00
Spiked Amount 20.000			Recovery = 99.10%			
68) 1,2-Dichlorobenzene-d4	16.939	152	374779	20.00	ppb	0.00
Spiked Amount 20.000			Recovery = 100.00%			
Target Compounds						Qvalue
4) Chloromethane	1.943	50	687	Below Cal		74
11) Acetone	3.594	43	2852	1.11	ppb	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : T:\Data2\Voc\HP5975_VOC2\2023Data\SEP\06\
Data File : 01701017.D
Acq On : 6 Sep 2023 5:37 pm
Operator : BP
Sample : MDH0998-02
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 07 08:31:54 2023
Quant Method : T:\Data2\Voc\HP5975_VOC2\2023Method\SEP05 8260.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Tue Sep 05 13:56:46 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.481	96	639260	20.00	ppb	0.00
38) Chlorobenzene-d5	12.203	117	615539	20.00	ppb	0.00
67) 1,4-Dichlorobenzene-d4	16.939	152	366299	20.00	ppb	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4	7.023	65	198987	21.58	ppb	0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 107.90%			
24) Dibromofluoromethane	6.558	111	178351	21.43	ppb	0.00
Spiked Amount 20.000			Recovery = 107.15%			
32) Toluene-d8	9.858	98	618980	19.50	ppb	0.00
Spiked Amount 20.000			Recovery = 97.50%			
54) Bromofluorobenzene	14.256	95	290683	18.99	ppb	0.00
Spiked Amount 20.000			Recovery = 94.95%			
68) 1,2-Dichlorobenzene-d4	16.939	152	366299	20.00	ppb	0.00
Spiked Amount 20.000			Recovery = 100.00%			
Target Compounds						Qvalue
4) Chloromethane	1.943	50	505	Below Cal	#	63
11) Acetone	3.594	43	5298	2.57	ppb	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SEP05 8260.M Thu Sep 07 08:31:55 2023

Quantitation Report (Not Reviewed)

Data Path : T:\Data2\Voc\HP5975_VOC2\2023Data\SEP\06\
Data File : 01801018.D
Acq On : 6 Sep 2023 6:10 pm
Operator : BP
Sample : MDH0993-01
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 07 08:32:08 2023
Quant Method : T:\Data2\Voc\HP5975_VOC2\2023Method\SEP05 8260.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Tue Sep 05 13:56:46 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.480	96	578793	20.00	ppb	0.00
38) Chlorobenzene-d5	12.203	117	599598	20.00	ppb	0.00
67) 1,4-Dichlorobenzene-d4	16.939	152	338439	20.00	ppb	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4	7.027	65	190780	22.85	ppb	0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 114.25%			
24) Dibromofluoromethane	6.560	111	165739	22.00	ppb	0.00
Spiked Amount 20.000			Recovery = 110.00%			
32) Toluene-d8	9.856	98	575728	20.03	ppb	0.00
Spiked Amount 20.000			Recovery = 100.15%			
54) Bromofluorobenzene	14.256	95	266014	17.84	ppb	0.00
Spiked Amount 20.000			Recovery = 89.20%			
68) 1,2-Dichlorobenzene-d4	16.939	152	338439	20.00	ppb	0.00
Spiked Amount 20.000			Recovery = 100.00%			
Target Compounds						Qvalue
4) Chloromethane	1.927	50	367	Below Cal	#	40

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SEP05 8260.M Thu Sep 07 08:32:09 2023

Quantitation Report (Not Reviewed)

Data Path : T:\Data2\Voc\HP5975_VOC2\2023Data\SEP\06\
Data File : 01901019.D
Acq On : 6 Sep 2023 6:42 pm
Operator : BP
Sample : MDI0011-01
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 07 08:32:23 2023
Quant Method : T:\Data2\Voc\HP5975_VOC2\2023Method\SEP05 8260.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Tue Sep 05 13:56:46 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.480	96	649121	20.00	ppb	0.00
38) Chlorobenzene-d5	12.203	117	649530	20.00	ppb	0.00
67) 1,4-Dichlorobenzene-d4	16.940	152	360149	20.00	ppb	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4	7.022	65	201785	21.55	ppb	0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 107.75%			
24) Dibromofluoromethane	6.557	111	175752	20.80	ppb	0.00
Spiked Amount 20.000			Recovery = 104.00%			
32) Toluene-d8	9.857	98	628867	19.51	ppb	0.00
Spiked Amount 20.000			Recovery = 97.55%			
54) Bromofluorobenzene	14.256	95	293657	18.18	ppb	0.00
Spiked Amount 20.000			Recovery = 90.90%			
68) 1,2-Dichlorobenzene-d4	16.940	152	360149	20.00	ppb	0.00
Spiked Amount 20.000			Recovery = 100.00%			
Target Compounds						Qvalue
4) Chloromethane	1.911	50	285	Below Cal	#	22
6) Bromomethane	2.394	96	1610	0.48	ppb #	80
11) Acetone	3.615	43	6956	3.50	ppb	85

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : T:\Data2\Voc\HP5975_VOC2\2023Data\SEP\06\
Data File : 02001020.D
Acq On : 6 Sep 2023 7:15 pm
Operator : BP
Sample : MDI0011-02
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 07 08:32:37 2023
Quant Method : T:\Data2\Voc\HP5975_VOC2\2023Method\SEP05 8260.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Tue Sep 05 13:56:46 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	7.479	96	663670	20.00	ppb		0.00
38) Chlorobenzene-d5	12.203	117	653740	20.00	ppb		0.00
67) 1,4-Dichlorobenzene-d4	16.939	152	376070	20.00	ppb		0.00
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4	7.021	65	204911	21.41	ppb		0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 107.05%				
24) Dibromofluoromethane	6.556	111	177924	20.60	ppb		0.00
Spiked Amount 20.000			Recovery = 103.00%				
32) Toluene-d8	9.856	98	642441	19.49	ppb		0.00
Spiked Amount 20.000			Recovery = 97.45%				
54) Bromofluorobenzene	14.255	95	309031	19.00	ppb		0.00
Spiked Amount 20.000			Recovery = 95.00%				
68) 1,2-Dichlorobenzene-d4	16.939	152	376070	20.00	ppb		0.00
Spiked Amount 20.000			Recovery = 100.00%				
Target Compounds							Qvalue
4) Chloromethane	1.920	50	339	Below Cal			93
11) Acetone	3.601	43	9754	5.08	ppb		76
66) 4-Isopropyltoluene	16.291	119	14344	0.87	ppb	#	89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : T:\Data2\Voc\HP5975_VOC2\2023Data\SEP\06\
Data File : 02101021.D
Acq On : 6 Sep 2023 7:47 pm
Operator : BP
Sample : MDI0011-03
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Sep 07 08:33:14 2023
Quant Method : T:\Data2\Voc\HP5975_VOC2\2023Method\SEP05 8260.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Tue Sep 05 13:56:46 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	7.479	96	688303	20.00	ppb		0.00
38) Chlorobenzene-d5	12.203	117	675392	20.00	ppb		0.00
67) 1,4-Dichlorobenzene-d4	16.940	152	387637	20.00	ppb		0.00
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4	7.022	65	207707	20.92	ppb		0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 104.60%				
24) Dibromofluoromethane	6.557	111	183259	20.45	ppb		0.00
Spiked Amount 20.000			Recovery = 102.25%				
32) Toluene-d8	9.856	98	668502	19.56	ppb		0.00
Spiked Amount 20.000			Recovery = 97.80%				
54) Bromofluorobenzene	14.255	95	339684	20.22	ppb		0.00
Spiked Amount 20.000			Recovery = 101.10%				
68) 1,2-Dichlorobenzene-d4	16.940	152	387637	20.00	ppb		0.00
Spiked Amount 20.000			Recovery = 100.00%				
Target Compounds							Qvalue
4) Chloromethane	1.917	50	653	Below Cal		#	38
11) Acetone	3.601	43	6710	3.12	ppb		72
15) MTBE (2-methoxy-2-meth...	4.487	73	10372	0.86	ppb		96
53) Isopropylbenzene	13.945	105	19042	1.31	ppb	#	73

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : T:\Data2\Voc\HP5975_VOC2\2023Data\SEP\06\
Data File : 02201022.D
Acq On : 6 Sep 2023 8:20 pm
Operator : BP
Sample : MDI0011-04
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Sep 07 08:34:24 2023
Quant Method : T:\Data2\Voc\HP5975_VOC2\2023Method\SEP05 8260.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Thu Sep 07 08:34:20 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.479	96	716971	20.00	ppb	0.00
38) Chlorobenzene-d5	12.202	117	704585	20.00	ppb	0.00
67) 1,4-Dichlorobenzene-d4	16.939	152	395939	20.00	ppb	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4	7.021	65	213291	20.63	ppb	0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 103.15%			
24) Dibromofluoromethane	6.556	111	188293	20.18	ppb	0.00
Spiked Amount 20.000			Recovery = 100.90%			
32) Toluene-d8	9.856	98	691778	19.43	ppb	0.00
Spiked Amount 20.000			Recovery = 97.15%			
54) Bromofluorobenzene	14.255	95	344560	19.66	ppb	0.00
Spiked Amount 20.000			Recovery = 98.30%			
68) 1,2-Dichlorobenzene-d4	16.939	152	395939	20.00	ppb	0.00
Spiked Amount 20.000			Recovery = 100.00%			
Target Compounds						Qvalue
4) Chloromethane	1.927	50	568	Below Cal		65
11) Acetone	3.573	43	236340	169.73	ppb	81
15) MTBE (2-methoxy-2-meth...	4.487	73	11296	0.90	ppb	87

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975_VOC2\2023Data\SEP\06\
Data File : 02401024.D
Acq On : 6 Sep 2023 9:25 pm
Operator : BP
Sample : MDI0024-01 MS
Misc :
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 07 08:34:59 2023
Quant Method : T:\Data2\Voc\HP5975_VOC2\2023Method\SEP05 8260.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Thu Sep 07 08:34:45 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	7.480	96	709140	20.00	ppb		0.00
38) Chlorobenzene-d5	12.203	117	743013	20.00	ppb		0.00
67) 1,4-Dichlorobenzene-d4	16.939	152	427256	20.00	ppb		0.00
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4	7.021	65	207626	20.30	ppb		0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 101.50%				
24) Dibromofluoromethane	6.557	111	189491	20.53	ppb		0.00
Spiked Amount 20.000			Recovery = 102.65%				
32) Toluene-d8	9.856	98	727718	20.67	ppb		0.00
Spiked Amount 20.000			Recovery = 103.35%				
54) Bromofluorobenzene	14.254	95	355472	19.23	ppb		0.00
Spiked Amount 20.000			Recovery = 96.15%				
68) 1,2-Dichlorobenzene-d4	16.939	152	427256	20.00	ppb		0.00
Spiked Amount 20.000			Recovery = 100.00%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.729	85	43146	10.29	ppb		99
4) Chloromethane	1.940	50	40131	12.32	ppb		96
5) Vinyl chloride	2.037	62	43457	11.84	ppb		97
6) Bromomethane	2.400	96	37091	11.25	ppb		97
7) Chloroethane	2.523	64	34660	13.67	ppb		96
8) Trichlorofluoromethane	2.816	101	76568	11.38	ppb		96
9) Diethyl ether	3.184	59	31636	10.58	ppb		75
10) 1,1-Dichloroethene	3.462	61	56466	10.99	ppb		95
11) Acetone	3.566	43	20887	11.68	ppb		83
12) Methyl iodide	3.636	142	33038	9.51	ppb		94
13) Carbon disulfide	3.712	76	131414	11.51	ppb		100
14) Methylene chloride	4.130	84	50122	11.76	ppb		95
15) MTBE (2-methoxy-2-meth...	4.487	73	117853	9.77	ppb		84
16) trans-1,2-Dichloroethene	4.479	61	64626	11.53	ppb		88
17) Acrylonitrile	4.484	53	25602	11.51	ppb		99
18) 1,1-Dichloroethane	5.074	63	84037	11.38	ppb		96
19) Methyl ethyl ketone	6.719	43	20544	10.52	ppb		64
20) 2,2-Dichloropropane	5.852	77	63650	10.46	ppb		99
21) cis-1,2-Dichloroethene	5.858	96	45181	11.19	ppb		100
22) Bromochloromethane	6.180	130	32234	11.66	ppb		99
23) Chloroform	6.340	83	89793	11.83	ppb		94
25) 1,1,1-Trichloroethane	6.536	97	76442	11.51	ppb		96
26) 1,1-Dichloropropene	6.763	75	64121	12.13	ppb		81
27) Carbon tetrachloride	6.742	117	66525	11.28	ppb		99
28) Benzene	7.036	78	197174	11.70	ppb		99
29) 1,2-Dichloroethane	7.131	62	67340	11.03	ppb		95
30) Trichloroethene	8.001	130	47077	11.08	ppb		91
31) 1,2-Dichloropropane	8.384	63	44150	11.41	ppb		94
33) Dibromomethane	8.511	174	33615	11.66	ppb	#	58
34) Bromodichloromethane	8.794	83	60243	10.91	ppb		96
35) cis-1,3-Dichloropropene	9.464	75	58015	10.07	ppb		82
36) Methyl isobutyl ketone	9.727	43	46559	10.99	ppb		88

37)	Toluene	9.960	91	204283	11.82 ppb		99
39)	trans-1,3-Dichloropropene	10.374	75	56424	9.62 ppb		85
40)	1,1,2-Trichloroethane	10.675	97	44563	11.07 ppb		88
41)	Tetrachloroethene	10.763	166	61070	10.96 ppb		92
42)	2-Hexanone	11.067	43	34335	10.58 ppb		91
43)	1,3-Dichloropropane	10.926	76	72351	10.88 ppb		97
44)	Dibromochloromethane	11.258	129	43482	10.10 ppb		98
45)	1,2-Dibromoethane	11.423	107	42166	10.86 ppb		99
46)	Chlorobenzene	12.249	112	151605	11.31 ppb		86
47)	1,1,1,2-Tetrachloroethane	12.420	131	48343	10.75 ppb		96
48)	Ethylbenzene	12.440	91	214084	11.35 ppb		96
49)	m+p-Xylene	13.318	91	153195	22.47 ppb		87
50)	o-Xylene	13.318	91	153149	11.24 ppb		92
51)	Styrene	13.357	104	133913	12.21 ppb		82
52)	Bromoform	13.637	173	29822	9.84 ppb		98
53)	Isopropylbenzene	13.970	105	181730	11.37 ppb		99
55)	Bromobenzene	14.466	156	58672	10.95 ppb	#	66
56)	n-Propylbenzene	14.701	91	273990	12.10 ppb		90
57)	1,3,5-Trimethylbenzene	15.700	105	193026	12.54 ppb		91
58)	2-Chlorotoluene	14.701	91	273990	12.10 ppb	#	32
59)	4-Chlorotoluene	15.049	91	201796	12.21 ppb	#	85
60)	tert-Butylbenzene	15.587	91	97893	11.73 ppb	#	77
61)	1,1,2,2-Tetrachloroethane	14.554	83	70623	11.70 ppb		94
62)	trans-1,4-Dichloro-2-b...	14.621	53	18892	10.90 ppb		94
63)	1,2,3-Trichloropropane	14.622	110	24105	11.69 ppb		92
64)	1,2,4-Trimethylbenzene	15.700	105	193026	12.54 ppb		94
65)	sec-Butylbenzene	15.989	105	236893	12.24 ppb		92
66)	4-Isopropyltoluene	16.288	119	219442	11.76 ppb	#	96
69)	1,3-Dichlorobenzene	16.344	146	130681	11.35 ppb		97
70)	1,4-Dichlorobenzene	16.344	146	130681	11.35 ppb		96
71)	1,2-Dichlorobenzene	16.972	146	124218	11.52 ppb		94
72)	n-butylbenzene	17.019	91	208584	12.20 ppb	#	91
73)	1,2-Dibromo-3-chloropr...	18.418	157	12870	10.48 ppb		86
74)	1,2,4-Trichlorobenzene	19.903	180	57087	10.82 ppb		99
75)	Hexachlorobutadiene	20.204	225	42431	12.65 ppb		99
76)	Naphthalene	20.366	128	142140	10.84 ppb		95
77)	1,2,3-Trichlorobenzene	20.777	180	61000	12.11 ppb		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SEP05 8260.M Thu Sep 07 08:35:18 2023

Quantitation Report (Not Reviewed)

Data Path : T:\Data2\Voc\HP5975_VOC2\2023Data\SEP\06\
Data File : 02501025.D
Acq On : 6 Sep 2023 9:57 pm
Operator : BP
Sample : MDI0024-01 MSD
Misc :
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 07 08:35:27 2023
Quant Method : T:\Data2\Voc\HP5975_VOC2\2023Method\SEP05 8260.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Thu Sep 07 08:34:45 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	7.480	96	738513	20.00	ppb		0.00
38) Chlorobenzene-d5	12.203	117	689487	20.00	ppb		0.00
67) 1,4-Dichlorobenzene-d4	16.939	152	435730	20.00	ppb		0.00
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4	7.022	65	211907	19.90	ppb		0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 99.50%				
24) Dibromofluoromethane	6.557	111	196072	20.40	ppb		0.00
Spiked Amount 20.000			Recovery = 102.00%				
32) Toluene-d8	9.856	98	749320	20.43	ppb		0.00
Spiked Amount 20.000			Recovery = 102.15%				
54) Bromofluorobenzene	14.254	95	365138	21.29	ppb		0.00
Spiked Amount 20.000			Recovery = 106.45%				
68) 1,2-Dichlorobenzene-d4	16.939	152	435730	20.00	ppb		0.00
Spiked Amount 20.000			Recovery = 100.00%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.729	85	45980	10.55	ppb		99
4) Chloromethane	1.940	50	43181	12.73	ppb		97
5) Vinyl chloride	2.037	62	47261	12.36	ppb		94
6) Bromomethane	2.400	96	39644	11.59	ppb		99
7) Chloroethane	2.523	64	36887	13.97	ppb		97
8) Trichlorofluoromethane	2.816	101	83439	11.91	ppb		100
9) Diethyl ether	3.185	59	34421	11.05	ppb		81
10) 1,1-Dichloroethene	3.462	61	62203	11.63	ppb		91
11) Acetone	3.587	43	23137	12.63	ppb		86
12) Methyl iodide	3.643	142	40022	10.97	ppb		93
13) Carbon disulfide	3.713	76	143358	12.06	ppb		100
14) Methylene chloride	4.130	84	53081	11.96	ppb		93
15) MTBE (2-methoxy-2-meth...	4.488	73	129071	10.30	ppb		84
16) trans-1,2-Dichloroethene	4.479	61	71279	12.21	ppb		88
17) Acrylonitrile	4.490	53	27641	11.95	ppb		99
18) 1,1-Dichloroethane	5.074	63	90789	11.81	ppb		97
19) Methyl ethyl ketone	6.719	43	23204	11.42	ppb		64
20) 2,2-Dichloropropane	5.852	77	69274	10.95	ppb		98
21) cis-1,2-Dichloroethene	5.858	96	49280	11.72	ppb		98
22) Bromochloromethane	6.181	130	34288	11.91	ppb		98
23) Chloroform	6.340	83	95202	12.04	ppb		95
25) 1,1,1-Trichloroethane	6.536	97	82437	11.92	ppb		94
26) 1,1-Dichloropropene	6.763	75	70075	12.73	ppb		79
27) Carbon tetrachloride	6.742	117	71151	11.58	ppb		99
28) Benzene	7.036	78	211694	12.07	ppb		99
29) 1,2-Dichloroethane	7.132	62	72110	11.35	ppb		98
30) Trichloroethene	8.002	130	52381	11.84	ppb		88
31) 1,2-Dichloropropane	8.384	63	48243	11.97	ppb		94
33) Dibromomethane	8.512	174	35525	11.83	ppb	#	55
34) Bromodichloromethane	8.794	83	65326	11.37	ppb		93
35) cis-1,3-Dichloropropene	9.464	75	65232	10.83	ppb		81
36) Methyl isobutyl ketone	9.728	43	51578	11.62	ppb		86

37)	Toluene	9.960	91	220537	12.25 ppb		99
39)	trans-1,3-Dichloropropene	10.374	75	62673	11.44 ppb		83
40)	1,1,2-Trichloroethane	10.675	97	47034	12.59 ppb		92
41)	Tetrachloroethene	10.763	166	64752	12.53 ppb		91
42)	2-Hexanone	11.068	43	38204	12.69 ppb		86
43)	1,3-Dichloropropane	10.926	76	77316	12.53 ppb		99
44)	Dibromochloromethane	11.258	129	46693	11.69 ppb		96
45)	1,2-Dibromoethane	11.424	107	45704	12.68 ppb		99
46)	Chlorobenzene	12.249	112	161667	13.00 ppb		86
47)	1,1,1,2-Tetrachloroethane	12.420	131	51465	12.34 ppb		97
48)	Ethylbenzene	12.440	91	232192	13.27 ppb		94
49)	m+p-Xylene	13.317	91	170889	27.01 ppb		86
50)	o-Xylene	13.317	91	170718	13.50 ppb		91
51)	Styrene	13.357	104	144314	14.18 ppb		81
52)	Bromoform	13.637	173	32513	11.56 ppb		92
53)	Isopropylbenzene	13.969	105	203333	13.71 ppb		100
55)	Bromobenzene	14.466	156	63359	12.74 ppb	#	66
56)	n-Propylbenzene	14.701	91	295662	14.07 ppb		91
57)	1,3,5-Trimethylbenzene	15.699	105	207077	14.50 ppb		91
58)	2-Chlorotoluene	14.701	91	295662	14.08 ppb	#	32
59)	4-Chlorotoluene	15.049	91	217146	14.16 ppb	#	85
60)	tert-Butylbenzene	15.586	91	107019	13.82 ppb	#	74
61)	1,1,2,2-Tetrachloroethane	14.554	83	74091	13.23 ppb		91
62)	trans-1,4-Dichloro-2-b...	14.622	53	19619	12.21 ppb		94
63)	1,2,3-Trichloropropane	14.622	110	24963	13.04 ppb		90
64)	1,2,4-Trimethylbenzene	15.699	105	207077	14.50 ppb		93
65)	sec-Butylbenzene	15.988	105	258098	14.37 ppb		92
66)	4-Isopropyltoluene	16.288	119	236532	13.66 ppb		96
69)	1,3-Dichlorobenzene	16.344	146	137718	11.72 ppb		95
70)	1,4-Dichlorobenzene	16.344	146	137718	11.72 ppb		96
71)	1,2-Dichlorobenzene	16.972	146	129728	11.79 ppb		96
72)	n-butylbenzene	17.019	91	223514	12.82 ppb	#	92
73)	1,2-Dibromo-3-chloropr...	18.418	157	14281	11.40 ppb		96
74)	1,2,4-Trichlorobenzene	19.903	180	62466	11.61 ppb		98
75)	Hexachlorobutadiene	20.204	225	45013	13.16 ppb		98
76)	Naphthalene	20.366	128	159252	11.73 ppb		95
77)	1,2,3-Trichlorobenzene	20.777	180	65707	12.79 ppb		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SEP05 8260.M Thu Sep 07 08:35:28 2023

Quantitation Report (Not Reviewed)

Data Path : T:\Data2\Voc\HP5975_VOC2\2023Data\SEP\06\
Data File : 02701027.D
Acq On : 6 Sep 2023 11:02 pm
Operator : BP
Sample : MDI0036-01 MS
Misc :
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Sep 07 08:36:40 2023
Quant Method : T:\Data2\Voc\HP5975_VOC2\2023Method\SEP05 8260.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Tue Sep 05 13:56:46 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	7.480	96	742961	20.00	ppb		0.00
38) Chlorobenzene-d5	12.202	117	731910	20.00	ppb		0.00
67) 1,4-Dichlorobenzene-d4	16.939	152	440697	20.00	ppb		0.00
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4	7.021	65	214539	20.02	ppb		0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 100.10%				
24) Dibromofluoromethane	6.557	111	196837	20.35	ppb		0.00
Spiked Amount 20.000			Recovery = 101.75%				
32) Toluene-d8	9.855	98	753253	20.42	ppb		0.00
Spiked Amount 20.000			Recovery = 102.10%				
54) Bromofluorobenzene	14.254	95	370740	20.36	ppb		0.00
Spiked Amount 20.000			Recovery = 101.80%				
68) 1,2-Dichlorobenzene-d4	16.939	152	440697	20.00	ppb		0.00
Spiked Amount 20.000			Recovery = 100.00%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.733	85	45448	10.35	ppb		100
4) Chloromethane	1.937	50	41809	12.25	ppb		95
5) Vinyl chloride	2.037	62	45201	11.75	ppb		96
6) Bromomethane	2.400	96	38514	11.14	ppb		98
7) Chloroethane	2.526	64	35613	13.41	ppb		96
8) Trichlorofluoromethane	2.816	101	83182	11.80	ppb		96
9) Diethyl ether	3.184	59	35182	11.23	ppb		81
10) 1,1-Dichloroethene	3.462	61	60585	11.26	ppb		95
11) Acetone	3.580	43	22869	12.35	ppb		84
12) Methyl iodide	3.643	142	39856	10.87	ppb		93
13) Carbon disulfide	3.712	76	137665	11.51	ppb		100
14) Methylene chloride	4.130	84	53013	11.87	ppb		95
15) MTBE (2-methoxy-2-meth...	4.487	73	130803	10.37	ppb		85
16) trans-1,2-Dichloroethene	4.479	61	68118	11.60	ppb		89
17) Acrylonitrile	4.486	53	25780	11.04	ppb		97
18) 1,1-Dichloroethane	5.074	63	87834	11.36	ppb		96
19) Methyl ethyl ketone	6.719	43	22351	10.93	ppb		63
20) 2,2-Dichloropropane	5.852	77	67108	10.53	ppb		98
21) cis-1,2-Dichloroethene	5.857	96	47923	11.33	ppb		99
22) Bromochloromethane	6.180	130	34231	11.82	ppb		100
23) Chloroform	6.340	83	93466	11.75	ppb		94
25) 1,1,1-Trichloroethane	6.536	97	79919	11.49	ppb		93
26) 1,1-Dichloropropene	6.763	75	68491	12.37	ppb		83
27) Carbon tetrachloride	6.742	117	69617	11.27	ppb		100
28) Benzene	7.036	78	207356	11.75	ppb		99
29) 1,2-Dichloroethane	7.131	62	71421	11.17	ppb		95
30) Trichloroethene	8.001	130	50529	11.36	ppb		89
31) 1,2-Dichloropropane	8.384	63	47049	11.61	ppb		92
33) Dibromomethane	8.511	174	35830	11.86	ppb	#	56
34) Bromodichloromethane	8.794	83	64841	11.21	ppb		96
35) cis-1,3-Dichloropropene	9.463	75	64977	10.73	ppb		83
36) Methyl isobutyl ketone	9.727	43	48791	10.99	ppb		89

37)	Toluene	9.960	91	213973	11.81 ppb		99
39)	trans-1,3-Dichloropropene	10.374	75	62904	10.84 ppb		84
40)	1,1,2-Trichloroethane	10.674	97	47668	12.02 ppb		90
41)	Tetrachloroethene	10.762	166	63896	11.64 ppb		92
42)	2-Hexanone	11.066	43	34846	10.90 ppb		85
43)	1,3-Dichloropropane	10.925	76	80363	12.27 ppb		98
44)	Dibromochloromethane	11.258	129	47883	11.29 ppb		99
45)	1,2-Dibromoethane	11.423	107	46352	12.12 ppb		98
46)	Chlorobenzene	12.248	112	148998	11.28 ppb		86
47)	1,1,1,2-Tetrachloroethane	12.420	131	52461	11.85 ppb		95
48)	Ethylbenzene	12.439	91	226823	12.21 ppb		93
49)	m+p-Xylene	13.317	91	168779	25.13 ppb		87
50)	o-Xylene	13.317	91	168537	12.55 ppb		91
51)	Styrene	13.356	104	144445	13.37 ppb		82
52)	Bromoform	13.636	173	32071	10.74 ppb		95
53)	Isopropylbenzene	13.969	105	199471	12.67 ppb		99
55)	Bromobenzene	14.466	156	63780	12.09 ppb	#	71
56)	n-Propylbenzene	14.701	91	289163	12.96 ppb		90
57)	1,3,5-Trimethylbenzene	15.699	105	203763	13.44 ppb		92
58)	2-Chlorotoluene	14.701	91	289163	12.97 ppb	#	32
59)	4-Chlorotoluene	15.049	91	215225	13.22 ppb	#	86
60)	tert-Butylbenzene	15.586	91	105846	12.87 ppb	#	76
61)	1,1,2,2-Tetrachloroethane	14.554	83	74575	12.55 ppb		93
62)	trans-1,4-Dichloro-2-b...	14.621	53	18652	10.93 ppb		91
63)	1,2,3-Trichloropropane	14.622	110	24420	12.02 ppb		98
64)	1,2,4-Trimethylbenzene	15.699	105	203763	13.44 ppb		94
65)	sec-Butylbenzene	15.988	105	251162	13.17 ppb		91
66)	4-Isopropyltoluene	16.287	119	229404	12.48 ppb		95
69)	1,3-Dichlorobenzene	16.344	146	138093	11.62 ppb		96
70)	1,4-Dichlorobenzene	16.344	146	138093	11.62 ppb		96
71)	1,2-Dichlorobenzene	16.972	146	130939	11.77 ppb		95
72)	n-butylbenzene	17.019	91	216372	12.27 ppb	#	92
73)	1,2-Dibromo-3-chloropr...	18.418	157	13311	10.51 ppb		99
74)	1,2,4-Trichlorobenzene	19.903	180	61853	11.37 ppb		97
75)	Hexachlorobutadiene	20.204	225	42267	12.22 ppb		94
76)	Naphthalene	20.366	128	149345	11.01 ppb		95
77)	1,2,3-Trichlorobenzene	20.777	180	63859	12.29 ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SEP05 8260.M Thu Sep 07 08:36:41 2023

Quantitation Report (Not Reviewed)

Data Path : T:\Data2\Voc\HP5975_VOC2\2023Data\SEP\06\
Data File : 02801028.D
Acq On : 6 Sep 2023 11:34 pm
Operator : BP
Sample : MDI0036-01 MSD
Misc :
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Sep 07 08:37:05 2023
Quant Method : T:\Data2\Voc\HP5975_VOC2\2023Method\SEP05 8260.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Tue Sep 05 13:56:46 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	7.479	96	762127	20.00	ppb		0.00
38) Chlorobenzene-d5	12.202	117	777080	20.00	ppb		0.00
67) 1,4-Dichlorobenzene-d4	16.939	152	447879	20.00	ppb		0.00
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4	7.021	65	219038	19.93	ppb		0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 99.65%				
24) Dibromofluoromethane	6.557	111	202185	20.38	ppb		0.00
Spiked Amount 20.000			Recovery = 101.90%				
32) Toluene-d8	9.856	98	771930	20.40	ppb		0.00
Spiked Amount 20.000			Recovery = 102.00%				
54) Bromofluorobenzene	14.254	95	382026	19.76	ppb		0.00
Spiked Amount 20.000			Recovery = 98.80%				
68) 1,2-Dichlorobenzene-d4	16.939	152	447879	20.00	ppb		0.00
Spiked Amount 20.000			Recovery = 100.00%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.733	85	48410	10.77	ppb		98
4) Chloromethane	1.937	50	44792	12.80	ppb		93
5) Vinyl chloride	2.037	62	48503	12.29	ppb		97
6) Bromomethane	2.400	96	39814	11.24	ppb		96
7) Chloroethane	2.523	64	37918	13.91	ppb		96
8) Trichlorofluoromethane	2.816	101	87826	12.15	ppb		96
9) Diethyl ether	3.185	59	36495	11.35	ppb		78
10) 1,1-Dichloroethene	3.462	61	65434	11.85	ppb		94
11) Acetone	3.587	43	22574	11.76	ppb		80
12) Methyl iodide	3.643	142	44106	11.67	ppb		91
13) Carbon disulfide	3.713	76	147693	12.04	ppb		100
14) Methylene chloride	4.130	84	54580	11.92	ppb		96
15) MTBE (2-methoxy-2-meth...	4.487	73	137586	10.65	ppb		84
16) trans-1,2-Dichloroethene	4.479	61	73043	12.12	ppb		88
17) Acrylonitrile	4.489	53	26521	11.08	ppb		96
18) 1,1-Dichloroethane	5.075	63	94021	11.85	ppb		98
19) Methyl ethyl ketone	6.719	43	24363	11.63	ppb		64
20) 2,2-Dichloropropane	5.852	77	72313	11.08	ppb		99
21) cis-1,2-Dichloroethene	5.858	96	52244	12.04	ppb		99
22) Bromochloromethane	6.181	130	35620	11.99	ppb		97
23) Chloroform	6.340	83	98328	12.05	ppb		93
25) 1,1,1-Trichloroethane	6.536	97	85145	11.93	ppb		97
26) 1,1-Dichloropropene	6.763	75	72966	12.84	ppb		84
27) Carbon tetrachloride	6.742	117	74647	11.78	ppb		99
28) Benzene	7.036	78	218108	12.05	ppb		99
29) 1,2-Dichloroethane	7.132	62	73846	11.26	ppb		96
30) Trichloroethene	8.001	130	54506	11.94	ppb		91
31) 1,2-Dichloropropane	8.384	63	50560	12.16	ppb		94
33) Dibromomethane	8.512	174	37728	12.17	ppb	#	57
34) Bromodichloromethane	8.794	83	67705	11.42	ppb		95
35) cis-1,3-Dichloropropene	9.464	75	69985	11.23	ppb		81
36) Methyl isobutyl ketone	9.727	43	52904	11.56	ppb		88

37)	Toluene	9.960	91	227984	12.27 ppb		100
39)	trans-1,3-Dichloropropene	10.374	75	66916	10.86 ppb		82
40)	1,1,2-Trichloroethane	10.676	97	49346	11.72 ppb		87
41)	Tetrachloroethene	10.763	166	67163	11.53 ppb		93
42)	2-Hexanone	11.067	43	37795	11.14 ppb		86
43)	1,3-Dichloropropane	10.926	76	82747	11.90 ppb		99
44)	Dibromochloromethane	11.258	129	49959	11.10 ppb		99
45)	1,2-Dibromoethane	11.424	107	48835	12.03 ppb		99
46)	Chlorobenzene	12.249	112	168932	12.05 ppb		85
47)	1,1,1,2-Tetrachloroethane	12.420	131	54723	11.64 ppb		94
48)	Ethylbenzene	12.440	91	241457	12.24 ppb		93
49)	m+p-Xylene	13.317	91	180916	25.37 ppb		87
50)	o-Xylene	13.317	91	180916	12.69 ppb		92
51)	Styrene	13.356	104	151872	13.24 ppb		82
52)	Bromoform	13.637	173	34466	10.87 ppb		100
53)	Isopropylbenzene	13.969	105	216680	12.97 ppb		99
55)	Bromobenzene	14.466	156	66955	11.95 ppb	#	66
56)	n-Propylbenzene	14.701	91	304349	12.85 ppb		90
57)	1,3,5-Trimethylbenzene	15.699	105	217418	13.50 ppb		92
58)	2-Chlorotoluene	14.701	91	304349	12.86 ppb	#	32
59)	4-Chlorotoluene	15.049	91	224218	12.97 ppb	#	86
60)	tert-Butylbenzene	15.586	91	113301	12.98 ppb	#	76
61)	1,1,2,2-Tetrachloroethane	14.554	83	76338	12.10 ppb		95
62)	trans-1,4-Dichloro-2-b...	14.621	53	19862	10.96 ppb		93
63)	1,2,3-Trichloropropane	14.621	110	25348	11.75 ppb		94
64)	1,2,4-Trimethylbenzene	15.699	105	217418	13.50 ppb		94
65)	sec-Butylbenzene	15.988	105	269915	13.33 ppb		93
66)	4-Isopropyltoluene	16.287	119	243050	12.46 ppb		96
69)	1,3-Dichlorobenzene	16.344	146	143677	11.90 ppb		96
70)	1,4-Dichlorobenzene	16.344	146	143677	11.90 ppb		97
71)	1,2-Dichlorobenzene	16.972	146	133796	11.83 ppb		94
72)	n-butylbenzene	17.019	91	226309	12.63 ppb	#	89
73)	1,2-Dibromo-3-chloropr...	18.418	157	14166	11.01 ppb		100
74)	1,2,4-Trichlorobenzene	19.904	180	65402	11.83 ppb		99
75)	Hexachlorobutadiene	20.204	225	44456	12.64 ppb		95
76)	Naphthalene	20.366	128	165310	11.82 ppb		95
77)	1,2,3-Trichlorobenzene	20.777	180	67413	12.77 ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SEP05 8260.M Thu Sep 07 08:37:06 2023

Quantitation Report (Not Reviewed)

Data Path : T:\Data2\Voc\HP5975_VOC2\2023Data\SEP\06\
Data File : 03001030.D
Acq On : 7 Sep 2023 12:39 am
Operator : BP
Sample : 10 PPB VOC CCV
Misc :
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Sep 07 08:38:45 2023
Quant Method : T:\Data2\Voc\HP5975_VOC2\2023Method\SEP05 8260.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Tue Sep 05 13:56:46 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	7.480	96	768593	20.00	ppb		0.00
38) Chlorobenzene-d5	12.202	117	740320	20.00	ppb		0.00
67) 1,4-Dichlorobenzene-d4	16.939	152	445037	20.00	ppb		0.00
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4	7.021	65	218248	19.69	ppb		0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 98.45%				
24) Dibromofluoromethane	6.557	111	202278	20.22	ppb		0.00
Spiked Amount 20.000			Recovery = 101.10%				
32) Toluene-d8	9.856	98	774727	20.30	ppb		0.00
Spiked Amount 20.000			Recovery = 101.50%				
54) Bromofluorobenzene	14.254	95	378895	20.58	ppb		0.00
Spiked Amount 20.000			Recovery = 102.90%				
68) 1,2-Dichlorobenzene-d4	16.939	152	445037	20.00	ppb		0.00
Spiked Amount 20.000			Recovery = 100.00%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.733	85	42748	9.36	ppb		98
4) Chloromethane	1.940	50	38874	10.98	ppb		93
5) Vinyl chloride	2.040	62	43268	10.87	ppb		98
6) Bromomethane	2.400	96	35988	9.95	ppb		95
7) Chloroethane	2.523	64	32786	11.93	ppb		96
8) Trichlorofluoromethane	2.816	101	76627	10.51	ppb		96
9) Diethyl ether	3.185	59	33073	10.20	ppb		80
10) 1,1-Dichloroethene	3.462	61	58713	10.55	ppb		93
11) Acetone	3.580	43	18130	8.89	ppb		75
12) Methyl iodide	3.643	142	36744	9.75	ppb		93
13) Carbon disulfide	3.713	76	129843	10.50	ppb		100
14) Methylene chloride	4.130	84	48270	10.43	ppb		96
15) MTBE (2-methoxy-2-meth...	4.487	73	122290	9.34	ppb		84
16) trans-1,2-Dichloroethene	4.479	61	63443	10.44	ppb		89
17) Acrylonitrile	4.489	53	24177	9.97	ppb		89
18) 1,1-Dichloroethane	5.074	63	82334	10.29	ppb		97
19) Methyl ethyl ketone	6.719	43	20774	9.80	ppb		63
20) 2,2-Dichloropropane	5.852	77	60463	9.14	ppb		96
21) cis-1,2-Dichloroethene	5.858	96	45626	10.43	ppb		98
22) Bromochloromethane	6.180	130	31022	10.35	ppb		100
23) Chloroform	6.340	83	85522	10.39	ppb		95
25) 1,1,1-Trichloroethane	6.536	97	74103	10.30	ppb		97
26) 1,1-Dichloropropene	6.763	75	63765	11.13	ppb		81
27) Carbon tetrachloride	6.742	117	65632	10.27	ppb		98
28) Benzene	7.036	78	192298	10.53	ppb		97
29) 1,2-Dichloroethane	7.131	62	64237	9.71	ppb		95
30) Trichloroethene	8.002	130	47625	10.35	ppb		90
31) 1,2-Dichloropropane	8.384	63	43490	10.37	ppb		95
33) Dibromomethane	8.512	174	32776	10.49	ppb	#	58
34) Bromodichloromethane	8.794	83	58753	9.78	ppb		96
35) cis-1,3-Dichloropropene	9.464	75	59332	9.53	ppb		82
36) Methyl isobutyl ketone	9.727	43	42815	9.49	ppb		85

37)	Toluene	9.960	91	198467	10.59 ppb		99
39)	trans-1,3-Dichloropropene	10.374	75	56774	9.71 ppb		81
40)	1,1,2-Trichloroethane	10.675	97	42263	10.53 ppb		90
41)	Tetrachloroethene	10.763	166	58835	10.60 ppb		90
42)	2-Hexanone	11.067	43	30316	9.38 ppb		87
43)	1,3-Dichloropropane	10.926	76	70855	10.69 ppb		98
44)	Dibromochloromethane	11.258	129	41561	9.69 ppb		92
45)	1,2-Dibromoethane	11.424	107	41460	10.72 ppb		99
46)	Chlorobenzene	12.249	112	131503	9.85 ppb		87
47)	1,1,1,2-Tetrachloroethane	12.420	131	46105	10.29 ppb		95
48)	Ethylbenzene	12.440	91	206860	11.01 ppb		91
49)	m+p-Xylene	13.317	91	151941	22.36 ppb		87
50)	o-Xylene	13.317	91	151716	11.17 ppb		92
51)	Styrene	13.357	104	128882	11.80 ppb		81
52)	Bromoform	13.637	173	27769	9.19 ppb		99
53)	Isopropylbenzene	13.969	105	181671	11.41 ppb		99
55)	Bromobenzene	14.466	156	56642	10.61 ppb	#	65
56)	n-Propylbenzene	14.701	91	260278	11.53 ppb		93
57)	1,3,5-Trimethylbenzene	15.699	105	182174	11.88 ppb		92
58)	2-Chlorotoluene	14.701	91	260278	11.54 ppb	#	32
59)	4-Chlorotoluene	15.049	91	189559	11.51 ppb	#	85
60)	tert-Butylbenzene	15.586	91	95639	11.50 ppb	#	76
61)	1,1,2,2-Tetrachloroethane	14.554	83	63610	10.58 ppb		90
62)	trans-1,4-Dichloro-2-b...	14.622	53	16330	9.46 ppb		94
63)	1,2,3-Trichloropropane	14.622	110	21164	10.30 ppb		95
64)	1,2,4-Trimethylbenzene	15.699	105	182174	11.88 ppb		95
65)	sec-Butylbenzene	15.988	105	228158	11.83 ppb		93
66)	4-Isopropyltoluene	16.288	119	206571	11.11 ppb	#	95
69)	1,3-Dichlorobenzene	16.344	146	122050	10.17 ppb		98
70)	1,4-Dichlorobenzene	16.344	146	122050	10.17 ppb		97
71)	1,2-Dichlorobenzene	16.972	146	113098	10.07 ppb		95
72)	n-butylbenzene	17.019	91	191698	10.77 ppb	#	91
73)	1,2-Dibromo-3-chloropr...	18.418	157	11534	9.02 ppb		99
74)	1,2,4-Trichlorobenzene	19.904	180	54144	9.85 ppb		98
75)	Hexachlorobutadiene	20.204	225	37836	10.83 ppb		96
76)	Naphthalene	20.366	128	128002	9.57 ppb		93
77)	1,2,3-Trichlorobenzene	20.777	180	55154	10.51 ppb		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SEP05 8260.M Thu Sep 07 08:38:46 2023

Quantitation Report (Not Reviewed)

Data Path : T:\Data2\Voc\HP5975_VOC2\2023Data\SEP\06\
Data File : 03201032.D
Acq On : 7 Sep 2023 1:43 am
Operator : BP
Sample : MDI0011-05
Misc :
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Sep 07 08:39:18 2023
Quant Method : T:\Data2\Voc\HP5975_VOC2\2023Method\SEP05 8260.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Tue Sep 05 13:56:46 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.480	96	775278	20.00	ppb	0.00
38) Chlorobenzene-d5	12.203	117	777971	20.00	ppb	0.00
67) 1,4-Dichlorobenzene-d4	16.939	152	415587	20.00	ppb	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4	7.022	65	220901	19.76	ppb	0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 98.80%			
24) Dibromofluoromethane	6.557	111	199859	19.80	ppb	0.00
Spiked Amount 20.000			Recovery = 99.00%			
32) Toluene-d8	9.857	98	746862	19.40	ppb	0.00
Spiked Amount 20.000			Recovery = 97.00%			
54) Bromofluorobenzene	14.255	95	351851	18.18	ppb	0.00
Spiked Amount 20.000			Recovery = 90.90%			
68) 1,2-Dichlorobenzene-d4	16.939	152	415587	20.00	ppb	0.00
Spiked Amount 20.000			Recovery = 100.00%			
Target Compounds						Qvalue
4) Chloromethane	1.917	50	408	Below Cal	#	34
11) Acetone	3.580	43	7047	2.87	ppb	84
15) MTBE (2-methoxy-2-meth...	4.488	73	12648	0.93	ppb	88

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : T:\Data2\Voc\HP5975_VOC2\2023Data\SEP\06\
Data File : 03301033.D
Acq On : 7 Sep 2023 2:16 am
Operator : BP
Sample : MDI0011-06
Misc :
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Sep 07 08:39:36 2023
Quant Method : T:\Data2\Voc\HP5975_VOC2\2023Method\SEP05 8260.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Tue Sep 05 13:56:46 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.480	96	768355	20.00	ppb	0.00
38) Chlorobenzene-d5	12.203	117	754707	20.00	ppb	0.00
67) 1,4-Dichlorobenzene-d4	16.939	152	416585	20.00	ppb	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4	7.023	65	222368	20.07	ppb	0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 100.35%			
24) Dibromofluoromethane	6.558	111	199422	19.94	ppb	0.00
Spiked Amount 20.000			Recovery = 99.70%			
32) Toluene-d8	9.857	98	744569	19.52	ppb	0.00
Spiked Amount 20.000			Recovery = 97.60%			
54) Bromofluorobenzene	14.256	95	348912	18.59	ppb	0.00
Spiked Amount 20.000			Recovery = 92.95%			
68) 1,2-Dichlorobenzene-d4	16.939	152	416585	20.00	ppb	0.00
Spiked Amount 20.000			Recovery = 100.00%			
Target Compounds						Qvalue
4) Chloromethane	1.930	50	453	Below Cal		69
11) Acetone	3.601	43	4404	1.61	ppb	71
15) MTBE (2-methoxy-2-meth...	4.489	73	11899	0.88	ppb	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : T:\Data2\Voc\HP5975_VOC2\2023Data\SEP\06\
Data File : 03401034.D
Acq On : 7 Sep 2023 2:48 am
Operator : BP
Sample : MDI0011-07
Misc :
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Sep 07 08:39:49 2023
Quant Method : T:\Data2\Voc\HP5975_VOC2\2023Method\SEP05 8260.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Tue Sep 05 13:56:46 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.480	96	756444	20.00	ppb	0.00
38) Chlorobenzene-d5	12.203	117	714443	20.00	ppb	0.00
67) 1,4-Dichlorobenzene-d4	16.939	152	413544	20.00	ppb	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4	7.022	65	217463	19.93	ppb	0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 99.65%			
24) Dibromofluoromethane	6.557	111	195889	19.89	ppb	0.00
Spiked Amount 20.000			Recovery = 99.45%			
32) Toluene-d8	9.857	98	731178	19.47	ppb	0.00
Spiked Amount 20.000			Recovery = 97.35%			
54) Bromofluorobenzene	14.255	95	350702	19.73	ppb	0.00
Spiked Amount 20.000			Recovery = 98.65%			
68) 1,2-Dichlorobenzene-d4	16.939	152	413544	20.00	ppb	0.00
Spiked Amount 20.000			Recovery = 100.00%			
Target Compounds						Qvalue
4) Chloromethane	1.924	50	282	Below Cal	#	30
11) Acetone	3.580	43	13027	6.11	ppb	84
15) MTBE (2-methoxy-2-meth...	4.487	73	11878	0.89	ppb	84
51) Styrene	13.359	104	20621	1.96	ppb	83

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975_VOC2\2023Data\SEP\06\
Data File : 03501035.D
Acq On : 7 Sep 2023 3:20 am
Operator : BP
Sample : MDI0011-01 MS
Misc :
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Sep 07 08:40:06 2023
Quant Method : T:\Data2\Voc\HP5975_VOC2\2023Method\SEP05 8260.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Tue Sep 05 13:56:46 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	7.480	96	801962	20.00	ppb		0.00
38) Chlorobenzene-d5	12.202	117	836848	20.00	ppb		0.00
67) 1,4-Dichlorobenzene-d4	16.939	152	469882	20.00	ppb		0.00
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4	7.021	65	229284	19.82	ppb		0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 99.10%				
24) Dibromofluoromethane	6.557	111	209590	20.08	ppb		0.00
Spiked Amount 20.000			Recovery = 100.40%				
32) Toluene-d8	9.856	98	812766	20.41	ppb		0.00
Spiked Amount 20.000			Recovery = 102.05%				
54) Bromofluorobenzene	14.255	95	398812	19.16	ppb		0.00
Spiked Amount 20.000			Recovery = 95.80%				
68) 1,2-Dichlorobenzene-d4	16.939	152	469882	20.00	ppb		0.00
Spiked Amount 20.000			Recovery = 100.00%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.732	85	44943	9.44	ppb		97
4) Chloromethane	1.940	50	40548	10.98	ppb		98
5) Vinyl chloride	2.040	62	45536	10.97	ppb		96
6) Bromomethane	2.400	96	37288	9.87	ppb		98
7) Chloroethane	2.523	64	30475	10.63	ppb		93
8) Trichlorofluoromethane	2.816	101	82725	10.87	ppb		96
9) Diethyl ether	3.183	59	36085	10.67	ppb		80
10) 1,1-Dichloroethene	3.462	61	62645	10.78	ppb		94
11) Acetone	3.573	43	22242	10.83	ppb		85
12) Methyl iodide	3.643	142	37343	9.51	ppb		93
13) Carbon disulfide	3.712	76	136528	10.58	ppb		100
14) Methylene chloride	4.131	84	51625	10.70	ppb		96
15) MTBE (2-methoxy-2-meth...	4.487	73	131032	9.60	ppb		85
16) trans-1,2-Dichloroethene	4.479	61	68011	10.73	ppb		89
17) Acrylonitrile	4.488	53	25688	10.16	ppb		98
18) 1,1-Dichloroethane	5.074	63	87766	10.51	ppb		96
19) Methyl ethyl ketone	6.719	43	22512	10.19	ppb		63
20) 2,2-Dichloropropane	5.852	77	65819	9.54	ppb		97
21) cis-1,2-Dichloroethene	5.858	96	48516	10.63	ppb		99
22) Bromochloromethane	6.180	130	33060	10.57	ppb		100
23) Chloroform	6.340	83	90652	10.56	ppb		97
25) 1,1,1-Trichloroethane	6.536	97	78713	10.48	ppb		96
26) 1,1-Dichloropropene	6.763	75	68015	11.38	ppb		84
27) Carbon tetrachloride	6.742	117	68821	10.32	ppb		96
28) Benzene	7.036	78	203882	10.70	ppb		99
29) 1,2-Dichloroethane	7.132	62	70146	10.16	ppb		95
30) Trichloroethene	8.001	130	50417	10.50	ppb		89
31) 1,2-Dichloropropane	8.384	63	47174	10.78	ppb		94
33) Dibromomethane	8.511	174	34723	10.65	ppb	#	53
34) Bromodichloromethane	8.794	83	62622	10.00	ppb		93
35) cis-1,3-Dichloropropene	9.464	75	64241	9.87	ppb		82
36) Methyl isobutyl ketone	9.727	43	47654	10.05	ppb		85

37)	Toluene	9.960	91	214787	10.99 ppb		99
39)	trans-1,3-Dichloropropene	10.374	75	62072	9.40 ppb		83
40)	1,1,2-Trichloroethane	10.675	97	46253	10.20 ppb		91
41)	Tetrachloroethene	10.763	166	63666	10.15 ppb		90
42)	2-Hexanone	11.067	43	33438	9.15 ppb		92
43)	1,3-Dichloropropane	10.926	76	77516	10.35 ppb		100
44)	Dibromochloromethane	11.259	129	45238	9.33 ppb		95
45)	1,2-Dibromoethane	11.424	107	44773	10.24 ppb		97
46)	Chlorobenzene	12.249	112	145098	9.61 ppb		86
47)	1,1,1,2-Tetrachloroethane	12.421	131	50665	10.01 ppb		99
48)	Ethylbenzene	12.440	91	227053	10.69 ppb		95
49)	m+p-Xylene	13.318	91	169704	22.10 ppb		86
50)	o-Xylene	13.318	91	169347	11.03 ppb		91
51)	Styrene	13.357	104	143870	11.65 ppb		81
52)	Bromoform	13.637	173	30643	8.97 ppb		98
53)	Isopropylbenzene	13.966	105	269158	14.96 ppb		98
55)	Bromobenzene	14.466	156	63591	10.54 ppb	#	65
56)	n-Propylbenzene	14.702	91	290228	11.38 ppb		92
57)	1,3,5-Trimethylbenzene	15.700	105	203861	11.76 ppb		91
58)	2-Chlorotoluene	14.702	91	290228	11.38 ppb	#	32
59)	4-Chlorotoluene	15.050	91	214157	11.51 ppb	#	86
60)	tert-Butylbenzene	15.586	91	106371	11.32 ppb	#	77
61)	1,1,2,2-Tetrachloroethane	14.555	83	69005	10.15 ppb		91
62)	trans-1,4-Dichloro-2-b...	14.622	53	18741	9.60 ppb		92
63)	1,2,3-Trichloropropane	14.622	110	23688	10.20 ppb		92
64)	1,2,4-Trimethylbenzene	15.700	105	203861	11.76 ppb		93
65)	sec-Butylbenzene	15.988	105	254533	11.67 ppb		93
66)	4-Isopropyltoluene	16.288	119	237296	11.29 ppb		95
69)	1,3-Dichlorobenzene	16.344	146	133679	10.55 ppb		98
70)	1,4-Dichlorobenzene	16.344	146	133679	10.55 ppb		98
71)	1,2-Dichlorobenzene	16.972	146	126336	10.65 ppb		95
72)	n-butylbenzene	17.019	91	217834	11.59 ppb	#	90
73)	1,2-Dibromo-3-chloropr...	18.418	157	12725	9.42 ppb		97
74)	1,2,4-Trichlorobenzene	19.903	180	64932	11.19 ppb		99
75)	Hexachlorobutadiene	20.204	225	45789	12.41 ppb		99
76)	Naphthalene	20.366	128	152713	10.62 ppb		95
77)	1,2,3-Trichlorobenzene	20.777	180	62519	11.29 ppb		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SEP05 8260.M Thu Sep 07 08:40:28 2023

Quantitation Report (Not Reviewed)

Data Path : T:\Data2\Voc\HP5975_VOC2\2023Data\SEP\06\
Data File : 03601036.D
Acq On : 7 Sep 2023 3:52 am
Operator : BP
Sample : MDI0011-01 MSD
Misc :
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Sep 07 08:40:39 2023
Quant Method : T:\Data2\Voc\HP5975_VOC2\2023Method\SEP05 8260.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Tue Sep 05 13:56:46 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	7.479	96	836911	20.00	ppb		0.00
38) Chlorobenzene-d5	12.203	117	789478	20.00	ppb		0.00
67) 1,4-Dichlorobenzene-d4	16.939	152	472853	20.00	ppb		0.00
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4	7.021	65	230133	19.07	ppb		0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 95.35%				
24) Dibromofluoromethane	6.557	111	213907	19.64	ppb		0.00
Spiked Amount 20.000			Recovery = 98.20%				
32) Toluene-d8	9.856	98	835583	20.11	ppb		0.00
Spiked Amount 20.000			Recovery = 100.55%				
54) Bromofluorobenzene	14.254	95	408668	20.81	ppb		0.00
Spiked Amount 20.000			Recovery = 104.05%				
68) 1,2-Dichlorobenzene-d4	16.939	152	472853	20.00	ppb		0.00
Spiked Amount 20.000			Recovery = 100.00%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.733	85	48837	9.85	ppb		97
4) Chloromethane	1.940	50	42966	11.15	ppb		96
5) Vinyl chloride	2.040	62	48975	11.30	ppb		97
6) Bromomethane	2.403	96	39503	10.04	ppb		99
7) Chloroethane	2.523	64	28831	9.63	ppb		95
8) Trichlorofluoromethane	2.816	101	88500	11.15	ppb		95
9) Diethyl ether	3.183	59	39412	11.16	ppb		77
10) 1,1-Dichloroethene	3.462	61	68902	11.36	ppb		93
11) Acetone	3.567	43	23767	11.16	ppb		77
12) Methyl iodide	3.643	142	42699	10.37	ppb		92
13) Carbon disulfide	3.713	76	146064	10.84	ppb		100
14) Methylene chloride	4.132	84	55157	10.95	ppb		96
15) MTBE (2-methoxy-2-meth...	4.488	73	144050	10.13	ppb		84
16) trans-1,2-Dichloroethene	4.479	61	73860	11.16	ppb		89
17) Acrylonitrile	4.479	53	26201	9.93	ppb		100
18) 1,1-Dichloroethane	5.074	63	95088	10.91	ppb		97
19) Methyl ethyl ketone	6.719	43	24808	10.77	ppb		64
20) 2,2-Dichloropropane	5.852	77	72565	10.10	ppb		98
21) cis-1,2-Dichloroethene	5.858	96	54351	11.41	ppb		100
22) Bromochloromethane	6.180	130	34829	10.67	ppb		99
23) Chloroform	6.340	83	96503	10.77	ppb		95
25) 1,1,1-Trichloroethane	6.536	97	85180	10.87	ppb		97
26) 1,1-Dichloropropene	6.763	75	74810	11.99	ppb		82
27) Carbon tetrachloride	6.742	117	74027	10.64	ppb		100
28) Benzene	7.036	78	221522	11.14	ppb		98
29) 1,2-Dichloroethane	7.131	62	71568	9.94	ppb		96
30) Trichloroethene	8.002	130	55465	11.07	ppb		90
31) 1,2-Dichloropropane	8.384	63	50702	11.10	ppb		96
33) Dibromomethane	8.511	174	36979	10.86	ppb	#	62
34) Bromodichloromethane	8.794	83	65996	10.10	ppb		95
35) cis-1,3-Dichloropropene	9.464	75	70932	10.41	ppb		84
36) Methyl isobutyl ketone	9.728	43	53087	10.66	ppb		88

37)	Toluene	9.960	91	231117	11.33 ppb		98
39)	trans-1,3-Dichloropropene	10.374	75	67417	10.77 ppb		85
40)	1,1,2-Trichloroethane	10.675	97	49130	11.48 ppb		92
41)	Tetrachloroethene	10.763	166	68710	11.61 ppb		92
42)	2-Hexanone	11.067	43	37018	10.74 ppb		88
43)	1,3-Dichloropropane	10.926	76	82562	11.68 ppb		100
44)	Dibromochloromethane	11.259	129	47930	10.48 ppb		99
45)	1,2-Dibromoethane	11.424	107	47947	11.62 ppb		96
46)	Chlorobenzene	12.249	112	151244	10.62 ppb		85
47)	1,1,1,2-Tetrachloroethane	12.421	131	52883	11.07 ppb		92
48)	Ethylbenzene	12.440	91	245052	12.23 ppb		93
49)	m+p-Xylene	13.317	91	185200	25.56 ppb		86
50)	o-Xylene	13.317	91	185098	12.78 ppb		90
51)	Styrene	13.357	104	155264	13.33 ppb		82
52)	Bromoform	13.637	173	32307	10.03 ppb		98
53)	Isopropylbenzene	13.965	105	288423	16.99 ppb		98
55)	Bromobenzene	14.466	156	67516	11.86 ppb	#	66
56)	n-Propylbenzene	14.702	91	313179	13.01 ppb		92
57)	1,3,5-Trimethylbenzene	15.699	105	218869	13.38 ppb		94
58)	2-Chlorotoluene	14.702	91	313179	13.02 ppb	#	32
59)	4-Chlorotoluene	15.050	91	227453	12.95 ppb	#	87
60)	tert-Butylbenzene	15.586	91	115564	13.03 ppb	#	77
61)	1,1,2,2-Tetrachloroethane	14.555	83	72729	11.34 ppb		94
62)	trans-1,4-Dichloro-2-b...	14.621	53	19749	10.73 ppb		94
63)	1,2,3-Trichloropropane	14.622	110	24315	11.09 ppb		97
64)	1,2,4-Trimethylbenzene	15.699	105	218869	13.38 ppb		96
65)	sec-Butylbenzene	15.988	105	276723	13.45 ppb		93
66)	4-Isopropyltoluene	16.288	119	253748	12.80 ppb		96
69)	1,3-Dichlorobenzene	16.345	146	141810	11.12 ppb		97
70)	1,4-Dichlorobenzene	16.345	146	141810	11.12 ppb		97
71)	1,2-Dichlorobenzene	16.972	146	131609	11.02 ppb		97
72)	n-butylbenzene	17.019	91	230350	12.18 ppb	#	91
73)	1,2-Dibromo-3-chloropr...	18.419	157	13395	9.86 ppb		94
74)	1,2,4-Trichlorobenzene	19.903	180	70992	12.16 ppb		97
75)	Hexachlorobutadiene	20.204	225	49250	13.27 ppb		97
76)	Naphthalene	20.366	128	167212	11.41 ppb		95
77)	1,2,3-Trichlorobenzene	20.777	180	67140	12.05 ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SEP05 8260.M Thu Sep 07 08:40:40 2023

Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975_VOC2\2023Data\SEP\06\
Data File : 03801038.D
Acq On : 7 Sep 2023 4:57 am
Operator : BP
Sample : 10 PPB VOC CCV
Misc :
ALS Vial : 38 Sample Multiplier: 1

Quant Time: Sep 07 08:41:18 2023
Quant Method : T:\Data2\Voc\HP5975_VOC2\2023Method\SEP05 8260.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Tue Sep 05 13:56:46 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	7.480	96	820111	20.00	ppb		0.00
38) Chlorobenzene-d5	12.202	117	783641	20.00	ppb		0.00
67) 1,4-Dichlorobenzene-d4	16.939	152	460576	20.00	ppb		0.00
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4	7.022	65	227515	19.24	ppb		0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 96.20%				
24) Dibromofluoromethane	6.558	111	211223	19.79	ppb		0.00
Spiked Amount 20.000			Recovery = 98.95%				
32) Toluene-d8	9.856	98	818681	20.10	ppb		0.00
Spiked Amount 20.000			Recovery = 100.50%				
54) Bromofluorobenzene	14.254	95	396407	20.34	ppb		0.00
Spiked Amount 20.000			Recovery = 101.70%				
68) 1,2-Dichlorobenzene-d4	16.939	152	460576	20.00	ppb		0.00
Spiked Amount 20.000			Recovery = 100.00%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.733	85	37953	7.72	ppb		100
4) Chloromethane	1.940	50	34444	9.08	ppb		98
5) Vinyl chloride	2.040	62	38551	9.08	ppb		98
6) Bromomethane	2.400	96	32666	8.33	ppb		96
7) Chloroethane	2.523	64	29424	10.03	ppb		99
8) Trichlorofluoromethane	2.816	101	67090	8.62	ppb		98
9) Diethyl ether	3.184	59	30633	8.86	ppb		79
10) 1,1-Dichloroethene	3.462	61	53538	9.01	ppb		94
11) Acetone	3.636	43	19173m	8.79	ppb		
12) Methyl iodide	3.643	142	34800	8.70	ppb		93
13) Carbon disulfide	3.713	76	117226	8.88	ppb		100
14) Methylene chloride	4.130	84	45154	9.13	ppb		94
15) MTBE (2-methoxy-2-meth...	4.487	73	115330	8.22	ppb		83
16) trans-1,2-Dichloroethene	4.478	61	58236	8.98	ppb		89
17) Acrylonitrile	4.490	53	22478	8.65	ppb		97
18) 1,1-Dichloroethane	5.074	63	75702	8.87	ppb		98
19) Methyl ethyl ketone	6.719	43	19074	8.41	ppb		60
20) 2,2-Dichloropropane	5.852	77	56584	7.99	ppb		99
21) cis-1,2-Dichloroethene	5.858	96	42013	9.00	ppb		99
22) Bromochloromethane	6.181	130	28655	8.96	ppb		97
23) Chloroform	6.340	83	77968	8.88	ppb		98
25) 1,1,1-Trichloroethane	6.536	97	66675	8.68	ppb		99
26) 1,1-Dichloropropene	6.763	75	57281	9.37	ppb		81
27) Carbon tetrachloride	6.742	117	58179	8.53	ppb		98
28) Benzene	7.036	78	177075	9.09	ppb		98
29) 1,2-Dichloroethane	7.133	62	60583	8.58	ppb		96
30) Trichloroethene	8.002	130	44497	9.06	ppb		88
31) 1,2-Dichloropropane	8.384	63	41186	9.20	ppb		94
33) Dibromomethane	8.512	174	30101	9.03	ppb	#	57
34) Bromodichloromethane	8.794	83	53366	8.29	ppb		95
35) cis-1,3-Dichloropropene	9.464	75	54966	8.34	ppb		83
36) Methyl isobutyl ketone	9.728	43	39621	8.37	ppb		88

37)	Toluene	9.960	91	183499	9.18 ppb		97
39)	trans-1,3-Dichloropropene	10.374	75	52313	8.49 ppb		85
40)	1,1,2-Trichloroethane	10.676	97	39303	9.25 ppb		91
41)	Tetrachloroethene	10.763	166	53107	9.04 ppb		93
42)	2-Hexanone	11.067	43	27959	8.17 ppb		87
43)	1,3-Dichloropropane	10.926	76	65312	9.31 ppb		98
44)	Dibromochloromethane	11.258	129	38266	8.43 ppb		94
45)	1,2-Dibromoethane	11.424	107	38273	9.35 ppb		99
46)	Chlorobenzene	12.249	112	123653	8.75 ppb		87
47)	1,1,1,2-Tetrachloroethane	12.420	131	41986	8.86 ppb		98
48)	Ethylbenzene	12.440	91	188216	9.46 ppb		93
49)	m+p-Xylene	13.317	91	139525	19.40 ppb		84
50)	o-Xylene	13.317	91	139366	9.70 ppb		89
51)	Styrene	13.357	104	117356	10.15 ppb		86
52)	Bromoform	13.637	173	25848	8.08 ppb		96
53)	Isopropylbenzene	13.969	105	162762	9.66 ppb		98
55)	Bromobenzene	14.466	156	51883	9.18 ppb	#	65
56)	n-Propylbenzene	14.701	91	232254	9.72 ppb		91
57)	1,3,5-Trimethylbenzene	15.699	105	161471	9.95 ppb		92
58)	2-Chlorotoluene	14.701	91	232254	9.73 ppb	#	32
59)	4-Chlorotoluene	15.049	91	172814	9.91 ppb	#	83
60)	tert-Butylbenzene	15.586	91	84263	9.57 ppb	#	76
61)	1,1,2,2-Tetrachloroethane	14.554	83	57645	9.06 ppb		93
62)	trans-1,4-Dichloro-2-b...	14.621	53	15077	8.24 ppb		94
63)	1,2,3-Trichloropropane	14.622	110	19248	8.85 ppb		91
64)	1,2,4-Trimethylbenzene	15.699	105	161471	9.94 ppb		94
65)	sec-Butylbenzene	15.988	105	200898	9.84 ppb		93
66)	4-Isopropyltoluene	16.287	119	183246	9.31 ppb		96
69)	1,3-Dichlorobenzene	16.344	146	111227	8.96 ppb		97
70)	1,4-Dichlorobenzene	16.344	146	111227	8.96 ppb		97
71)	1,2-Dichlorobenzene	16.972	146	103369	8.89 ppb		96
72)	n-butylbenzene	17.019	91	167438	9.09 ppb	#	90
73)	1,2-Dibromo-3-chloropr...	18.418	157	10577	7.99 ppb		96
74)	1,2,4-Trichlorobenzene	19.903	180	48824	8.59 ppb		96
75)	Hexachlorobutadiene	20.204	225	33238	9.19 ppb		91
76)	Naphthalene	20.366	128	110495	8.18 ppb		94
77)	1,2,3-Trichlorobenzene	20.777	180	48322	8.90 ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SEP05 8260.M Thu Sep 07 08:41:36 2023

Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975_VOC2\2023Data\SEP\06\
Data File : 04001040.D
Acq On : 7 Sep 2023 6:02 am
Operator : BP
Sample : 2 PPB CEVE ICAL
Misc :
ALS Vial : 40 Sample Multiplier: 1

Quant Time: Sep 07 09:11:24 2023
Quant Method : T:\Data2\Voc\HP5975_VOC2\2023Method\SEP06cev.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Thu Sep 07 09:11:03 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Difluorobenzene	9.856	88	2526	20.00	ppb	0.00
4) Chlorobenzene-d5	12.203	117	791545	20.00	ppb	0.00
7) 1,4-Dichlorobenzene-d4	16.304	152	472037	20.00	ppb	0.00
System Monitoring Compounds						
2) MTBE-d3	3.713	76	186m	15.14	ppb	0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 75.70%#			
3) Toluene-d8	9.856	98	774820	20.13	ppb	0.00
Spiked Amount 20.000			Recovery = 100.65%			
6) Bromofluorobenzene	14.255	95	360845	19.68	ppb	0.00
Spiked Amount 20.000			Recovery = 98.40%			
8) 1,2-Dichlorobenzene-d4	16.939	152	430058	19.85	ppb	0.00
Spiked Amount 20.000			Recovery = 99.25%			
Target Compounds						Qvalue
5) 2-CEVE	9.259	63	1887	2.53	ppb	# 2

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SEP06cev.M Thu Sep 07 09:11:33 2023

Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975_VOC2\2023Data\SEP\06\
Data File : 04101041.D
Acq On : 7 Sep 2023 6:34 am
Operator : BP
Sample : 5 PPB CEVE ICAL
Misc :
ALS Vial : 41 Sample Multiplier: 1

Quant Time: Sep 07 09:11:58 2023
Quant Method : T:\Data2\Voc\HP5975_VOC2\2023Method\SEP06cev.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Thu Sep 07 09:11:03 2023
Response via : Initial Calibration

Compound		R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards							
1) 1,4-Difluorobenzene		9.856	88	2418	20.00	ppb	0.00
4) Chlorobenzene-d5		12.203	117	744312	20.00	ppb	0.00
7) 1,4-Dichlorobenzene-d4		16.304	152	453337	20.00	ppb	0.00
System Monitoring Compounds							
2) MTBE-d3		3.712	76	204m	17.34	ppb	0.00
Spiked Amount	20.000	Range 85 - 115		Recovery =	86.70%		
3) Toluene-d8		9.857	98	750750	20.38	ppb	0.00
Spiked Amount	20.000			Recovery =	101.90%		
6) Bromofluorobenzene		14.256	95	345266	20.02	ppb	0.00
Spiked Amount	20.000			Recovery =	100.10%		
8) 1,2-Dichlorobenzene-d4		16.939	152	417318	20.06	ppb	0.00
Spiked Amount	20.000			Recovery =	100.30%		
Target Compounds							Qvalue
5) 2-CEVE		9.259	63	5206	4.43	ppb #	20

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SEP06cev.M Thu Sep 07 09:12:28 2023

Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975_VOC2\2023Data\SEP\06\
Data File : 04201042.D
Acq On : 7 Sep 2023 7:06 am
Operator : BP
Sample : 10 PPB CEVE ICAL
Misc :
ALS Vial : 42 Sample Multiplier: 1

Quant Time: Sep 07 09:12:43 2023
Quant Method : T:\Data2\Voc\HP5975_VOC2\2023Method\SEP06cev.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Thu Sep 07 09:11:03 2023
Response via : Initial Calibration

Compound		R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards							
1) 1,4-Difluorobenzene		9.856	88	2407	20.00	ppb	0.00
4) Chlorobenzene-d5		12.203	117	710846	20.00	ppb	0.00
7) 1,4-Dichlorobenzene-d4		16.304	152	440967	20.00	ppb	0.00
System Monitoring Compounds							
2) MTBE-d3		3.712	76	190m	16.23	ppb	0.00
Spiked Amount	20.000	Range 85 - 115		Recovery =	81.15%#		
3) Toluene-d8		9.857	98	731948	19.96	ppb	0.00
Spiked Amount	20.000			Recovery =	99.80%		
6) Bromofluorobenzene		14.256	95	334039	20.29	ppb	0.00
Spiked Amount	20.000			Recovery =	101.45%		
8) 1,2-Dichlorobenzene-d4		16.939	152	402662	19.89	ppb	0.00
Spiked Amount	20.000			Recovery =	99.45%		
Target Compounds							Qvalue
5) 2-CEVE		9.261	63	12140	8.58	ppb #	32

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SEP06cev.M Thu Sep 07 09:12:55 2023

Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975_VOC2\2023Data\SEP\06\
Data File : 04301043.D
Acq On : 7 Sep 2023 7:39 am
Operator : BP
Sample : 20 PPB CEVE ICAL
Misc :
ALS Vial : 43 Sample Multiplier: 1

Quant Time: Sep 07 09:13:12 2023
Quant Method : T:\Data2\Voc\HP5975_VOC2\2023Method\SEP06cev.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Thu Sep 07 09:11:03 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Difluorobenzene	9.857	88	2624	20.00	ppb	0.00
4) Chlorobenzene-d5	12.203	117	738730	20.00	ppb	0.00
7) 1,4-Dichlorobenzene-d4	16.304	152	446151	20.00	ppb	0.00
System Monitoring Compounds						
2) MTBE-d3	3.712	76	244m	19.12	ppb	0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 95.60%			
3) Toluene-d8	9.857	98	749980	18.76	ppb	0.00
Spiked Amount 20.000			Recovery = 93.80%			
6) Bromofluorobenzene	14.256	95	340922	19.92	ppb	0.00
Spiked Amount 20.000			Recovery = 99.60%			
8) 1,2-Dichlorobenzene-d4	16.939	152	412710	20.15	ppb	0.00
Spiked Amount 20.000			Recovery = 100.75%			
Target Compounds						Qvalue
5) 2-CEVE	9.262	63	29708	18.09	ppb	# 25

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SEP06cev.M Thu Sep 07 09:13:20 2023

Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975_VOC2\2023Data\SEP\06\
Data File : 04401044.D
Acq On : 7 Sep 2023 8:11 am
Operator : BP
Sample : 40 PPB CEVE ICAL
Misc :
ALS Vial : 44 Sample Multiplier: 1

Quant Time: Sep 07 09:13:35 2023
Quant Method : T:\Data2\Voc\HP5975_VOC2\2023Method\SEP06cev.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Thu Sep 07 09:11:03 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Difluorobenzene	9.857	88	2377	20.00	ppb	0.00
4) Chlorobenzene-d5	12.203	117	728088	20.00	ppb	0.00
7) 1,4-Dichlorobenzene-d4	16.304	152	444626	20.00	ppb	0.00
System Monitoring Compounds						
2) MTBE-d3	3.719	76	372m	32.17	ppb	0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 160.85%#			
3) Toluene-d8	9.857	98	752244	20.77	ppb	0.00
Spiked Amount 20.000			Recovery = 103.85%			
6) Bromofluorobenzene	14.256	95	338823	20.09	ppb	0.00
Spiked Amount 20.000			Recovery = 100.45%			
8) 1,2-Dichlorobenzene-d4	16.939	152	409172	20.05	ppb	0.00
Spiked Amount 20.000			Recovery = 100.25%			
Target Compounds						Qvalue
5) 2-CEVE	9.262	63	74029	43.37	ppb	# 34

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SEP06cev.M Thu Sep 07 09:13:42 2023

BDI0072

B. Pet 9/6/23

Starting sequence Tue Sep 05 08:20:42 2023

Instrument Name: 5975
Sequence File: C:\msdchem\1\sequence\083123.S
Comment:
Operator: BP
Data Path: C:\MSDCHEM\1\DATA\2023\SEP\05\
Method Path: C:\MSDCHEM\1\METHODS\

Line	Type	Vial	DataFile	Method	Sample Name
1)	Sample	1	00101001	DWVOC	RINSE
2)	Sample	2	00201002	DWVOC	RINSE
3)	Sample	3	00301003	DWVOC	BLANK
4)	Sample	4	00401004	DWVOC	0.5 PPB VOC ICAL
5)	Sample	5	00501005	DWVOC	2 PPB VOC ICAL
6)	Sample	6	00601006	DWVOC	5 PPB VOC ICAL
7)	Sample	7	00701007	DWVOC	10 PPB VOC ICAL
8)	Sample	8	00801008	DWVOC	15 PPB VOC ICAL
9)	Sample	9	00901009	DWVOC	20 PPB VOC ICAL
10)	Sample	10	01001010	DWVOC	30 PPB VOC ICAL
11)	Sample	11	01101011	DWVOC	RINSE
12)	Sample	12	01201012	DWVOC	10 PPB VOC ICV
13)	Sample	13	01301013	DWVOC	RINSE
14)	Sample	14	01401014	DWVOC	MDI0021-01
15)	Sample	15	01501015	DWVOC	MDI0021-02
16)	Sample	16	01601016	DWVOC	MDI0021-03
17)	Sample	17	01701017	DWVOC	MDI0021-04
18)	Sample	18	01801018	DWVOC	MDI0021-05
19)	Sample	19	01901019	DWVOC	MDI0021-06
20)	Sample	20	02001020	DWVOC	MDI0021-07
21)	Sample	21	02101021	DWVOC	MDI0022-01
22)	Sample	22	02201022	DWVOC	MDI0022-02
23)	Sample	23	02301023	DWVOC	MDI0022-03
24)	Sample	24	02401024	DWVOC	MDI0022-04
25)	Sample	25	02501025	DWVOC	MDI0025-02
26)	Sample	26	02601026	DWVOC	MDI0025-03
27)	Sample	27	02701027	DWVOC	MDI0025-04
28)	Sample	28	02801028	DWVOC	MDI0021-01 MS
29)	Sample	29	02901029	DWVOC	MDI0021-01 MSD
30)	Sample	30	03001030	DWVOC	RINSE
31)	Sample	31	03101031	DWVOC	10 PPB VOC CCV
32)	Sample	32	03201032	DWVOC	RINSE
33)	Sample	33	03301033	DWVOC	MDI0025-05
34)	Sample	34	03401034	DWVOC	MDI0025-06
35)	Sample	35	03501035	DWVOC	MDI0025-07
36)	Sample	36	03601036	DWVOC	MDI0025-10
37)	Sample	37	03701037	DWVOC	MDI0025-11
38)	Sample	38	03801038	DWVOC	MDH0734-01
39)	Sample	39	03901039	DWVOC	MDH0734-01

] Data entered in batch BDH1183

```
 40) Sample        40  04001040  DWVOC     RINSE
 41) Sample        41  04101041  DWVOC     10 PPB VOC CCV

Sequence completed Wed Sep 06 06:32:50 2023

  C:\MSDCHEM\1\DATA\2023\SEP\05\2023 Sep 05 0820 Quality Log.LOG
  C:\MSDCHEM\1\DATA\2023\SEP\05\2023 Sep 05 0820 Sequence Log .LOG
```

QC Checklist for EPA 8260/624.1 - VOCs

Analysis Date: 9/5/23

☒	QC Parameter	Acceptance Criteria	Frequency	Notes
X	BFB Tune	See below		
X	Initial Calibration	90% must meet <20%RSD	At least 6 points	If regression is used, weight as 1/x, with $R^2 > 0.920$
X	Initial Calibration	Reprocessed cal points must be within 70-130%		
X	Response Factor	Check against list on back		Include CCV RF report in data packet
X	Internal Standard	50-200% of mid-point CAL	All samples	
X	Surrogate Recovery	85-115%	All samples	
X	ICV/QCS	70-130%	Each ICAL	
X	Blanks	No interferences	Every 20 samples	
X	CCV	80% within ±20%	At beginning of run and every 12 hours.	
X	MS/MSD	±20%	Every 20 samples	

X	Cal Prep Form Present			
X	pH/Chlorine checks	pH<2 THM Chlorine check	All samples	
X	Dilutions Noted?			

Comments:

m/z	Required Intensity (relative abundance)
50	15 to 40% of *m/z* 95
75	30 to 60% of *m/z* 95
95	Base peak, 100% relative abundance
96	5 to 9% of *m/z* 95
173	Less than 2% of *m/z* 174
174	50 to 200% of *m/z* 95
175	5 to 9% of *m/z* 174
176	95% to 101% of *m/z* 174
177	5 to 9% of *m/z* 176

Analyst: BMP Checklist Completed Date: 9/6/23

Reviewed By: [illegible] *Date:* 9/7/23

Anatek Labs, Inc.

RF Factor Table for EPA 8260/624.1 - VOCs

Analyte	RF	Check if <	Analyte	RF	Check if <
1,1,1-Trichloroethane	0.05		Carbon tetrachloride	0.1	
1,1,2,2-Tetrachloroethane	0.2		Chlorobenzene	0.4	
1,1,2-Trichloroethane	0.2		Chlorodibromomethane	0.2	
1,1-Dichloroethane	0.3		Chloroethane (Ethyl chloride)	0.01	
1,1-Dichloroethylene	0.06		Chloroform	0.3	
1,2,3-Trichloropropane	0.4		cis-1,2-Dichloroethylene	0.2	
1,2,4-Trichlorobenzene	0.4		cis-1,3-Dichloropropene	0.3	
1,2-Dibromo-3-chloropropane (DBCP)	0.01		Ethylbenzene	0.4	
1,2-Dibromoethane (EDB, Ethylene dibromide)	0.2		Isopropylbenzene	0.4	
1,2-Dichlorobenzene	0.6		m+p-xylene	0.2	
1,2-Dichloroethane (Ethylene dichloride)	0.07		Methyl bromide (Bromomethane)	0.01	
1,2-Dichloropropane	0.2		Methyl chloride (Chloromethane)	0.01	
1,3-Dichlorobenzene	0.5		Methyl tert-butyl ether (MTBE)	0.1	
1,4-Dichlorobenzene	0.6		o-Xylene	0.2	
2-Butanone (Methyl ethyl ketone, MEK)	0.01		Styrene	0.2	
2-Hexanone	0.01		Tetrachloroethylene (Perchloroethylene)	0.1	
4-Methyl-2-pentanone (MIBK)	0.03		Toluene	0.3	
Acetone	0.01		trans-1,2-Dichloroethylene	0.1	
Benzene	0.2		trans-1,3-Dichloropropylene	0.3	
Bromochloromethane	0.1		Trichloroethene (Trichloroethylene)	0.2	
Bromodichloromethane	0.3		Trichlorofluoromethane (Freon 11)	0.01	
Bromoform	0.1		Vinyl chloride	0.01	
Carbon disulfide	0.1				

Taken from Table 4, EPA Method 8260D

Anatek Labs, Inc
1282 Alturas Drive
Moscow, ID 83843

Calibration Standard Preparation Form — Method: EPA 8260/624.1

Initial Calibration and CCV Standard Number: 2302582
Initial Calibration and CCV Standard Concentration: 200 ug/mL
Initial Calibration and CCV Standard Expiration Date: 2/28/2026

Matrix Spiking Standard Number: 2302582
Matrix Spiking Standard Concentration: 200 ug/ml
Matrix Spiking Standards Expiration Dates: 2/28/2026

Initial Calibration Verification (ICV) Standard Number: 2301142
Initial Calibration Verification (ICV) Standard Concentration: 200 ug/ml
Initial Calibration Verification (ICV) Expiration Date: 5/31/2025

Internal Standard / Surrogate Standard Number: 2204337
Internal Standard / Surrogate Standard Concentration: 125 ug/ml
Internal Standard / Surrogate Standard Sample Concentration: Archon adds 125 ng to 5 ml
Expiration Date: 01/04/2024

Initial Calibration Dilution Template (minimum of 5 calibration points)

Desired Concentration (ppb)	Stock Concentration (ppm)	uL Standard Added	Final Volume (mL)
30	200	7.5	50
20	200	5	50
15	200	7.5	100
10	200	5.0	100
5	200	2.5	100
2	200	1.0	100
0.5	10 ppb Cal std	5 ml	100
ICV 10	**200**	**5**	**100**

Add 2 drops of 1:1 HCl per 50mL to Standards, CCV, ICV, and Reagent Blanks.

Calibration Prep:
ICAL and ICV Prep Date: **9/5/2023**

Solution Prepared:
X CCV
X MS/MSD
X pH check
X Chlorine check (THM)

pH paper reagent # 2002327
Free Chlorine Test strip reagent# 2103033

Analyst: BMP Date of Preparation: 9/5/23

PREPARATION BENCH SHEET

BDI0072

Matrix: Water **Prepared using: VOC - VOC** **Surrogate used: 2204337**

Lab Number	Analysis	Prepared - By	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	Client	Extraction Comments
MDI0025-04	VOC 8260	09/05/23 22:38-BKP	50	50				10	PBS Engineering - Portland	
MDI0021-02	VOC 8260	09/05/23 16:08-BKP	50	50				10	PBS Engineering - Portland	
MDI0021-03	VOC 8260	09/05/23 16:41-BKP	50	50				10	PBS Engineering - Portland	
MDI0021-05	VOC 8260	09/05/23 17:46-BKP	50	50				10	PBS Engineering - Portland	
MDI0021-06	VOC 8260	09/05/23 18:18-BKP	50	50				10	PBS Engineering - Portland	
MDI0021-07	VOC 8260	09/05/23 18:51-BKP	50	50				10	PBS Engineering - Portland	
MDI0022-01	VOC 8260	09/05/23 19:23-BKP	50	50				10	PBS Engineering - Portland	
MDI0022-02	VOC 8260	09/05/23 19:56-BKP	50	50				10	PBS Engineering - Portland	
MDI0022-03	VOC 8260	09/05/23 20:28-BKP	50	50				10	PBS Engineering - Portland	
MDI0022-04	VOC 8260	09/05/23 21:01-BKP	50	50				10	PBS Engineering - Portland	
MDI0021-01	VOC 8260	09/05/23 15:36-BKP	50	50				10	PBS Engineering - Portland	
MDI0025-03	VOC 8260	09/05/23 22:05-BKP	50	50				10	PBS Engineering - Portland	
BDI0072-MSD1	QC	09/05/23 23:42-BKP	50	50	2302582	MDI0021-01	2.5	10		
MDI0025-05	VOC 8260	09/06/23 01:52-BKP	50	50				10	PBS Engineering - Portland	
MDI0025-06	VOC 8260	09/06/23 02:24-BKP	50	50				10	PBS Engineering - Portland	
MDI0025-07	VOC 8260	09/06/23 02:56-BKP	50	50				10	PBS Engineering - Portland	
MDI0025-10	VOC 8260	09/06/23 03:29-BKP	50	50				10	PBS Engineering - Portland	
MDI0025-11	VOC 8260	09/06/23 04:01-BKP	50	50				10	PBS Engineering - Portland	
MDI0021-04	VOC 8260	09/05/23 17:13-BKP	50	50				10	PBS Engineering - Portland	
BDI0072-BLK1	QC	09/05/23 09:39-BKP	50	50				10		
BDI0072-BS1	QC	09/05/23 11:49-BKP	50	50	2302582		2.5	10		
BDI0072-MS1	QC	09/05/23 23:10-BKP	50	50	2302582	MDI0021-01	2.5	10		
MDI0025-02	VOC 8260	09/05/23 21:33-BKP	50	50				10	PBS Engineering - Portland	

Support Info: P-Syringe(s) BAL-09

Reagent	Description	LotNum

B. Ott 9/6/23 9/5/23

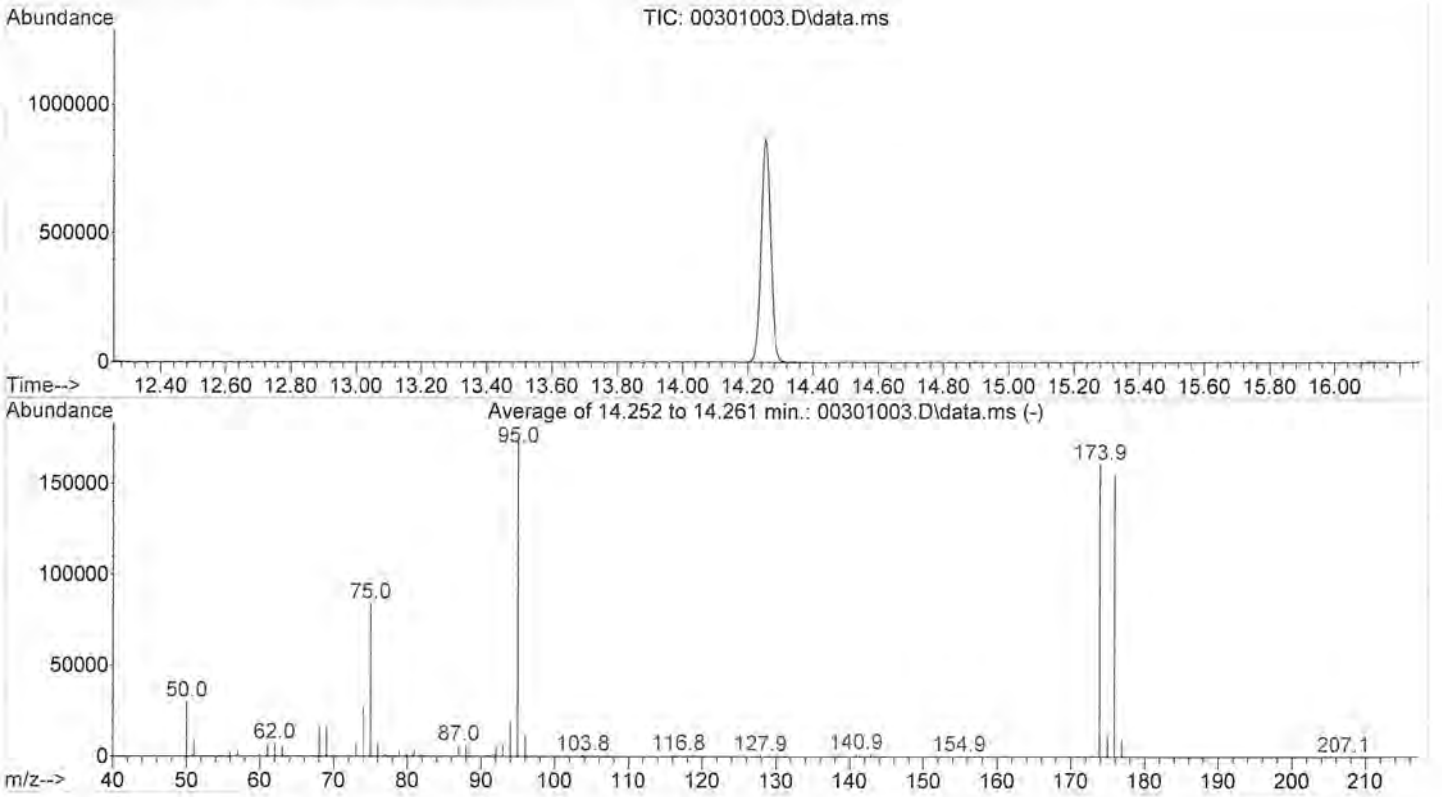
Prepared By: Date Analytical Run Date:

BFB

Data Path : T:\Data2\Voc\HP5975_VOC2\2023Data\SEP\05\
Data File : 00301003.D
Acq On : 5 Sep 2023 9:39 am
Operator : BP
Sample : BLANK
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: rteint.p

Method : T:\Data2\Voc\HP5975_VOC2\2023Method\SEP05 8260.M
Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
Last Update : Tue Sep 05 13:56:46 2023



AutoFind: Scans 2161, 2162, 2163; Background Corrected with Scan 2146

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.1	29955	PASS
75	95	30	60	48.0	83955	PASS
95	95	100	100	100.0	174741	PASS
96	95	5	9	6.6	11497	PASS
173	174	0.00	2	0.6	917	PASS
174	95	50	200	92.1	160939	PASS
175	174	5	9	6.9	11038	PASS
176	174	95	105	96.1	154731	PASS
177	176	5	9	6.3	9776	PASS

Quantitation Report (Not Reviewed)

Data Path : T:\Data2\Voc\HP5975_VOC2\2023Data\SEP\05\
Data File : 00301003.D
Acq On : 5 Sep 2023 9:39 am
Operator : BP
Sample : BLANK
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 05 14:04:24 2023
Quant Method : T:\Data2\Voc\HP5975_VOC2\2023Method\SEP05 8260.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Tue Sep 05 13:56:46 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.480	96	825928	20.00	ppb	0.00
38) Chlorobenzene-d5	12.202	117	792338	20.00	ppb	0.00
67) 1,4-Dichlorobenzene-d4	16.938	152	450868	20.00	ppb	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4	7.022	65	247329	20.76	ppb	0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 103.80%			
24) Dibromofluoromethane	6.558	111	215600	20.05	ppb	0.00
Spiked Amount 20.000			Recovery = 100.25%			
32) Toluene-d8	9.856	98	800271	19.51	ppb	0.00
Spiked Amount 20.000			Recovery = 97.55%			
54) Bromofluorobenzene	14.255	95	376360	19.10	ppb	0.00
Spiked Amount 20.000			Recovery = 95.50%			
68) 1,2-Dichlorobenzene-d4	16.938	152	450868	20.00	ppb	0.00
Spiked Amount 20.000			Recovery = 100.00%			
Target Compounds						Qvalue
4) Chloromethane	1.924	50	605	Below Cal		71
11) Acetone	3.580	43	4177	1.37	ppb	89
15) MTBE (2-methoxy-2-meth...	4.487	73	12836	0.88	ppb	85

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975_VOC2\2023Data\SEP\05\
Data File : 00401004.D
Acq On : 5 Sep 2023 10:11 am
Operator : BP
Sample : 0.5 PPB VOC ICAL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 05 13:56:36 2023
Quant Method : T:\Data2\Voc\HP5975_VOC2\2023Method\SEP05 8260.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Tue Sep 05 13:51:29 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.481	96	802428	20.00	ppb	0.00
38) Chlorobenzene-d5	12.203	117	798419	20.00	ppb	0.00
67) 1,4-Dichlorobenzene-d4	16.939	152	442825	20.00	ppb	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4	7.023	65	240002	20.74	ppb	0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 103.70%			
24) Dibromofluoromethane	6.558	111	210434	20.15	ppb	0.00
Spiked Amount 20.000			Recovery = 100.75%			
32) Toluene-d8	9.857	98	779430	19.56	ppb	0.00
Spiked Amount 20.000			Recovery = 97.80%			
54) Bromofluorobenzene	14.255	95	369943	18.63	ppb	0.00
Spiked Amount 20.000			Recovery = 93.15%			
68) 1,2-Dichlorobenzene-d4	16.939	152	442825	20.00	ppb	0.00
Spiked Amount 20.000			Recovery = 100.00%			
Target Compounds						Qvalue
3) Dichlorodifluoromethane	1.733	85	1970	0.39	ppb	98
4) Chloromethane	1.943	50	2489	0.45	ppb	79
5) Vinyl chloride	2.040	62	1938	0.47	ppb	100
6) Bromomethane	2.400	96	2731	0.66	ppb	95
7) Chloroethane	2.526	64	1583	0.55	ppb	93
8) Trichlorofluoromethane	2.816	101	3462	0.45	ppb	96
9) Diethyl ether	3.184	59	1657m	0.49	ppb	
10) 1,1-Dichloroethene	3.455	61	2672	0.46	ppb	96
11) Acetone	3.594	43	3954	1.32	ppb	82
12) Methyl iodide	3.643	142	1672	0.45	ppb	86
13) Carbon disulfide	3.719	76	6311	0.49	ppb	100
14) Methylene chloride	4.130	84	3117m	0.51	ppb	
15) MTBE (2-methoxy-2-meth...	4.488	73	16185	1.15	ppb	87
16) trans-1,2-Dichloroethene	4.477	61	2888m	0.46	ppb	
17) Acrylonitrile	4.484	53	1403m	0.54	ppb	
18) 1,1-Dichloroethane	5.075	63	4232m	0.51	ppb	
19) Methyl ethyl ketone	6.723	43	971m	0.43	ppb	
20) 2,2-Dichloropropane	5.854	77	3180m	0.45	ppb	
21) cis-1,2-Dichloroethene	5.854	96	2012m	0.44	ppb	
22) Bromochloromethane	6.180	130	1550m	0.50	ppb	
23) Chloroform	6.340	83	4423m	0.51	ppb	
25) 1,1,1-Trichloroethane	6.535	97	3601m	0.48	ppb	
26) 1,1-Dichloropropene	6.764	75	2137m	0.36	ppb	
27) Carbon tetrachloride	6.744	117	3051m	0.46	ppb	
28) Benzene	7.035	78	9125m	0.48	ppb	
29) 1,2-Dichloroethane	7.133	62	4054m	0.59	ppb	
30) Trichloroethene	8.002	130	2264m	0.47	ppb	
31) 1,2-Dichloropropane	8.384	63	2009m	0.46	ppb	
33) Dibromomethane	8.509	174	1586m	0.49	ppb	
34) Bromodichloromethane	8.794	83	2831m	0.44	ppb	
35) cis-1,3-Dichloropropene	9.462	75	2192m	0.63	ppb	
36) Methyl isobutyl ketone	9.726	43	1467m	1.35	ppb	

37)	Toluene	9.962	91	8875m	0.45 ppb
39)	trans-1,3-Dichloropropene	10.372	75	2270m	0.37 ppb
40)	1,1,2-Trichloroethane	10.678	97	2036m	0.47 ppb
41)	Tetrachloroethene	10.762	166	2663m	0.44 ppb
42)	2-Hexanone	11.068	43	1102m	0.32 ppb
43)	1,3-Dichloropropane	10.929	76	3024m	0.42 ppb
44)	Dibromochloromethane	11.255	129	2138m	0.46 ppb
45)	1,2-Dibromoethane	11.422	107	1621m	0.39 ppb
46)	Chlorobenzene	12.249	112	7269m	0.50 ppb
47)	1,1,1,2-Tetrachloroethane	12.422	131	2237m	0.46 ppb
48)	Ethylbenzene	12.441	91	7020m	0.35 ppb
49)	m+p-Xylene	13.317	91	3972m	0.54 ppb
50)	o-Xylene	13.317	91	3972m	0.27 ppb
51)	Styrene	13.358	104	2746m	0.23 ppb
52)	Bromoform	13.638	173	1387m	0.43 ppb
53)	Isopropylbenzene	13.967	105	4250m	0.25 ppb
55)	Bromobenzene	14.464	156	2489m	0.43 ppb
56)	n-Propylbenzene	14.699	91	6669m	0.27 ppb
57)	1,3,5-Trimethylbenzene	15.698	105	3325m	0.20 ppb
58)	2-Chlorotoluene	14.821	91	4633m	0.19 ppb
59)	4-Chlorotoluene	15.047	91	4612m	0.26 ppb
60)	tert-Butylbenzene	15.585	91	2291m	0.26 ppb
61)	1,1,2,2-Tetrachloroethane	14.555	83	3015m	0.47 ppb
62)	trans-1,4-Dichloro-2-b...	14.623	53	605m	0.32 ppb
63)	1,2,3-Trichloropropane	14.623	110	1127m	0.51 ppb
64)	1,2,4-Trimethylbenzene	15.698	105	3326m	0.20 ppb
65)	sec-Butylbenzene	15.987	105	4335m	0.21 ppb
66)	4-Isopropyltoluene	16.290	119	5849m	0.29 ppb
69)	1,3-Dichlorobenzene	16.344	146	5698m	0.48 ppb
70)	1,4-Dichlorobenzene	16.344	146	5699m	0.48 ppb
71)	1,2-Dichlorobenzene	16.972	146	5476m	0.49 ppb
72)	n-butylbenzene	17.017	91	5755m	0.32 ppb
73)	1,2-Dibromo-3-chloropr...	18.422	157	455m	0.36 ppb
74)	1,2,4-Trichlorobenzene	19.899	180	1828m	0.33 ppb
75)	Hexachlorobutadiene	20.202	225	1380m	0.40 ppb
76)	Naphthalene	20.365	128	3045m	0.27 ppb
77)	1,2,3-Trichlorobenzene	20.776	180	1672m	0.32 ppb

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SEP05 8260.M Tue Sep 05 13:56:52 2023

Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975_VOC2\2023Data\SEP\05\
Data File : 00501005.D
Acq On : 5 Sep 2023 10:44 am
Operator : BP
Sample : 2 PPB VOC ICAL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 05 14:00:40 2023
Quant Method : T:\Data2\Voc\HP5975_VOC2\2023Method\SEP05 8260.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Tue Sep 05 13:56:46 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.481	96	803372	20.00	ppb	0.00
38) Chlorobenzene-d5	12.203	117	750862	20.00	ppb	0.00
67) 1,4-Dichlorobenzene-d4	16.939	152	448507	20.00	ppb	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4	7.023	65	241070	20.81	ppb	0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 104.05%			
24) Dibromofluoromethane	6.558	111	211245	20.20	ppb	0.00
Spiked Amount 20.000			Recovery = 101.00%			
32) Toluene-d8	9.857	98	785353	19.69	ppb	0.00
Spiked Amount 20.000			Recovery = 98.45%			
54) Bromofluorobenzene	14.254	95	379153	20.30	ppb	0.00
Spiked Amount 20.000			Recovery = 101.50%			
68) 1,2-Dichlorobenzene-d4	16.939	152	448507	20.00	ppb	0.00
Spiked Amount 20.000			Recovery = 100.00%			
Target Compounds						Qvalue
3) Dichlorodifluoromethane	1.733	85	6192	1.24	ppb	91
4) Chloromethane	1.937	50	7495	1.83	ppb	92
5) Vinyl chloride	2.037	62	6899	1.66	ppb	95
6) Bromomethane	2.400	96	7960	1.95	ppb	97
7) Chloroethane	2.523	64	5847	2.04	ppb	99
8) Trichlorofluoromethane	2.816	101	11113	1.46	ppb	94
9) Diethyl ether	3.184	59	5303m	1.56	ppb	
10) 1,1-Dichloroethene	3.455	61	8809	1.51	ppb	90
11) Acetone	3.580	43	5736	2.14	ppb	65
12) Methyl iodide	3.643	142	5197	1.39	ppb	98
13) Carbon disulfide	3.712	76	21377	1.65	ppb	100
14) Methylene chloride	4.130	84	9130m	1.77	ppb	
15) MTBE (2-methoxy-2-meth...	4.488	73	28768	2.04	ppb	84
16) trans-1,2-Dichloroethene	4.478	61	10875	1.71	ppb	93
17) Acrylonitrile	4.484	53	4272m	1.64	ppb	
18) 1,1-Dichloroethane	5.073	63	15076	1.80	ppb	95
19) Methyl ethyl ketone	6.723	43	3180m	1.42	ppb	
20) 2,2-Dichloropropane	5.851	77	10451	1.48	ppb	91
21) cis-1,2-Dichloroethene	5.854	96	7613m	1.66	ppb	
22) Bromochloromethane	6.180	130	5651m	1.80	ppb	
23) Chloroform	6.340	83	16215	1.88	ppb	95
25) 1,1,1-Trichloroethane	6.536	97	12479	1.66	ppb	95
26) 1,1-Dichloropropene	6.764	75	8071m	1.35	ppb	
27) Carbon tetrachloride	6.742	117	10318	1.54	ppb	99
28) Benzene	7.036	78	32991	1.73	ppb	98
29) 1,2-Dichloroethane	7.131	62	13147	1.90	ppb	95
30) Trichloroethene	8.002	130	7966m	1.66	ppb	
31) 1,2-Dichloropropane	8.384	63	7331m	1.67	ppb	
33) Dibromomethane	8.509	174	5734m	1.76	ppb	
34) Bromodichloromethane	8.795	83	10758	1.67	ppb	94
35) cis-1,3-Dichloropropene	9.462	75	8495m	1.59	ppb	
36) Methyl isobutyl ketone	9.726	43	5510m	2.11	ppb	

37)	Toluene	9.960	91	32704	1.67	ppb		98
39)	trans-1,3-Dichloropropene	10.372	75	8627m	1.50	ppb		
40)	1,1,2-Trichloroethane	10.678	97	7343m	1.80	ppb		
41)	Tetrachloroethene	10.762	166	9481m	1.68	ppb		
42)	2-Hexanone	11.068	43	3889m	1.19	ppb		
43)	1,3-Dichloropropane	10.926	76	11227	1.67	ppb		96
44)	Dibromochloromethane	11.255	129	7634m	1.76	ppb		
45)	1,2-Dibromoethane	11.422	107	6914m	1.76	ppb		
46)	Chlorobenzene	12.249	112	26727	1.99	ppb		84
47)	1,1,1,2-Tetrachloroethane	12.418	131	8398m	1.85	ppb		
48)	Ethylbenzene	12.439	91	27361	1.44	ppb		90
49)	m+p-Xylene	13.316	91	17386	2.52	ppb		85
50)	o-Xylene	13.316	91	17386	1.26	ppb		90
51)	Styrene	13.356	104	13185	1.19	ppb		72
52)	Bromoform	13.638	173	5286m	1.72	ppb		
53)	Isopropylbenzene	13.967	105	17467	1.08	ppb		96
55)	Bromobenzene	14.464	156	9264m	1.71	ppb		
56)	n-Propylbenzene	14.701	91	28791	1.26	ppb		93
57)	1,3,5-Trimethylbenzene	15.699	105	17624	1.13	ppb		93
58)	2-Chlorotoluene	14.701	91	28791	1.29	ppb	#	32
59)	4-Chlorotoluene	15.050	91	24436	1.46	ppb		87
60)	tert-Butylbenzene	15.585	91	9363m	1.11	ppb		
61)	1,1,2,2-Tetrachloroethane	14.554	83	11259	1.85	ppb		87
62)	trans-1,4-Dichloro-2-b...	14.623	53	2543m	1.45	ppb		
63)	1,2,3-Trichloropropane	14.623	110	3800m	1.82	ppb		
64)	1,2,4-Trimethylbenzene	15.699	105	17624	1.13	ppb		95
65)	sec-Butylbenzene	15.987	105	20723	1.06	ppb	#	89
66)	4-Isopropyltoluene	16.289	119	25285	1.34	ppb	#	91
69)	1,3-Dichlorobenzene	16.344	146	22389	1.85	ppb		96
70)	1,4-Dichlorobenzene	16.344	146	22389	1.85	ppb		94
71)	1,2-Dichlorobenzene	16.971	146	20799	1.84	ppb		93
72)	n-butylbenzene	17.018	91	24048	1.34	ppb	#	94
73)	1,2-Dibromo-3-chloropr...	18.417	157	1884m	1.46	ppb		
74)	1,2,4-Trichlorobenzene	19.904	180	7499m	1.35	ppb		
75)	Hexachlorobutadiene	20.202	225	5271m	1.50	ppb		
76)	Naphthalene	20.364	128	12238	1.07	ppb		96
77)	1,2,3-Trichlorobenzene	20.776	180	7195m	1.36	ppb		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SEP05 8260.M Tue Sep 05 14:00:47 2023

Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975_VOC2\2023Data\SEP\05\
Data File : 00601006.D
Acq On : 5 Sep 2023 11:16 am
Operator : BP
Sample : 5 PPB VOC ICAL
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 05 14:01:26 2023
Quant Method : T:\Data2\Voc\HP5975_VOC2\2023Method\SEP05 8260.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Tue Sep 05 13:56:46 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	7.481	96	837669	20.00	ppb		0.00
38) Chlorobenzene-d5	12.203	117	814858	20.00	ppb		0.00
67) 1,4-Dichlorobenzene-d4	16.939	152	477518	20.00	ppb		0.00
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4	7.022	65	249422	20.65	ppb		0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 103.25%				
24) Dibromofluoromethane	6.558	111	220757	20.25	ppb		0.00
Spiked Amount 20.000			Recovery = 101.25%				
32) Toluene-d8	9.857	98	834062	20.05	ppb		0.00
Spiked Amount 20.000			Recovery = 100.25%				
54) Bromofluorobenzene	14.254	95	408956	20.18	ppb		0.00
Spiked Amount 20.000			Recovery = 100.90%				
68) 1,2-Dichlorobenzene-d4	16.939	152	477518	20.00	ppb		0.00
Spiked Amount 20.000			Recovery = 100.00%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.732	85	25882	5.09	ppb		96
4) Chloromethane	1.940	50	21388	5.43	ppb		99
5) Vinyl chloride	2.040	62	23882	5.51	ppb		95
6) Bromomethane	2.400	96	20005	4.84	ppb		94
7) Chloroethane	2.523	64	17311	5.78	ppb		99
8) Trichlorofluoromethane	2.816	101	44672	5.62	ppb		98
9) Diethyl ether	3.184	59	16596	4.70	ppb		81
10) 1,1-Dichloroethene	3.462	61	31835	5.25	ppb		94
11) Acetone	3.580	43	10729	4.32	ppb		81
12) Methyl iodide	3.643	142	17150	4.31	ppb		93
13) Carbon disulfide	3.712	76	70751	5.25	ppb		100
14) Methylene chloride	4.131	84	26476	5.18	ppb		91
15) MTBE (2-methoxy-2-meth...	4.488	73	67661	4.66	ppb		85
16) trans-1,2-Dichloroethene	4.479	61	33795	5.10	ppb		90
17) Acrylonitrile	4.478	53	11608	4.31	ppb		98
18) 1,1-Dichloroethane	5.074	63	44655	5.12	ppb		98
19) Methyl ethyl ketone	6.721	43	11109	4.77	ppb		66
20) 2,2-Dichloropropane	5.852	77	34691	4.76	ppb		98
21) cis-1,2-Dichloroethene	5.858	96	22870	4.80	ppb		97
22) Bromochloromethane	6.180	130	16886	5.17	ppb		94
23) Chloroform	6.341	83	46819	5.22	ppb		99
25) 1,1,1-Trichloroethane	6.537	97	41941	5.35	ppb		93
26) 1,1-Dichloropropene	6.764	75	32766	5.24	ppb		83
27) Carbon tetrachloride	6.743	117	36913	5.30	ppb		100
28) Benzene	7.037	78	101213	5.09	ppb		99
29) 1,2-Dichloroethane	7.131	62	35927	4.98	ppb		97
30) Trichloroethene	8.002	130	25103	5.00	ppb		88
31) 1,2-Dichloropropane	8.384	63	22745	4.98	ppb		95
33) Dibromomethane	8.511	174	17052	5.01	ppb	#	57
34) Bromodichloromethane	8.795	83	31334	4.71	ppb		96
35) cis-1,3-Dichloropropene	9.464	75	28196	4.38	ppb		82
36) Methyl isobutyl ketone	9.728	43	19549	4.60	ppb		93

37)	Toluene	9.961	91	102619	5.02	ppb		99
39)	trans-1,3-Dichloropropene	10.374	75	27320	4.33	ppb		85
40)	1,1,2-Trichloroethane	10.675	97	22341	5.06	ppb		90
41)	Tetrachloroethene	10.763	166	31721	5.19	ppb		92
42)	2-Hexanone	11.068	43	13685	3.85	ppb		92
43)	1,3-Dichloropropane	10.926	76	35855	4.92	ppb		97
44)	Dibromochloromethane	11.259	129	22635	4.80	ppb		99
45)	1,2-Dibromoethane	11.424	107	21195	4.98	ppb		97
46)	Chlorobenzene	12.249	112	74644	5.12	ppb		84
47)	1,1,1,2-Tetrachloroethane	12.421	131	24762	5.02	ppb		96
48)	Ethylbenzene	12.440	91	100715	4.87	ppb		94
49)	m+p-Xylene	13.318	91	67746	9.06	ppb		89
50)	o-Xylene	13.318	91	67746	4.53	ppb		94
51)	Styrene	13.357	104	58048	4.83	ppb		77
52)	Bromoform	13.636	173	15258	4.59	ppb		96
53)	Isopropylbenzene	13.969	105	79874	4.56	ppb		99
55)	Bromobenzene	14.466	156	28785	4.90	ppb	#	64
56)	n-Propylbenzene	14.702	91	126043	5.07	ppb		90
57)	1,3,5-Trimethylbenzene	15.699	105	84493	5.00	ppb		93
58)	2-Chlorotoluene	14.702	91	126043	5.20	ppb	#	32
59)	4-Chlorotoluene	15.049	91	95643	5.28	ppb	#	85
60)	tert-Butylbenzene	15.586	91	43750	4.78	ppb	#	73
61)	1,1,2,2-Tetrachloroethane	14.554	83	33455	5.06	ppb		89
62)	trans-1,4-Dichloro-2-b...	14.622	53	8244m	4.33	ppb		
63)	1,2,3-Trichloropropane	14.621	110	11430	5.05	ppb		100
64)	1,2,4-Trimethylbenzene	15.699	105	84493	5.00	ppb		96
65)	sec-Butylbenzene	15.988	105	104576	4.93	ppb	#	92
66)	4-Isopropyltoluene	16.288	119	102741	5.02	ppb	#	94
69)	1,3-Dichlorobenzene	16.344	146	65351	5.08	ppb		94
70)	1,4-Dichlorobenzene	16.344	146	65351	5.08	ppb		95
71)	1,2-Dichlorobenzene	16.971	146	61010	5.06	ppb		91
72)	n-butylbenzene	17.018	91	97315	5.09	ppb	#	91
73)	1,2-Dibromo-3-chloropr...	18.417	157	5878m	4.28	ppb		
74)	1,2,4-Trichlorobenzene	19.902	180	25616	4.35	ppb		95
75)	Hexachlorobutadiene	20.203	225	19773	5.27	ppb		96
76)	Naphthalene	20.365	128	49343	3.82	ppb		95
77)	1,2,3-Trichlorobenzene	20.776	180	25552	4.54	ppb		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SEP05 8260.M Tue Sep 05 14:01:41 2023

Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975_VOC2\2023Data\SEP\05\
Data File : 00701007.D
Acq On : 5 Sep 2023 11:49 am
Operator : BP
Sample : 10 PPB VOC ICAL
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 05 14:56:45 2023
Quant Method : T:\Data2\Voc\HP5975_VOC2\2023Method\AUG29 8260.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Tue Aug 29 13:16:06 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	7.479	96	874138	20.00	ppb		0.00
38) Chlorobenzene-d5	12.202	117	831651	20.00	ppb		0.00
67) 1,4-Dichlorobenzene-d4	16.938	152	501235	20.00	ppb		0.00
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4	7.020	65	254038	19.33	ppb		0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 96.65%				
24) Dibromofluoromethane	6.557	111	228730	19.65	ppb		0.00
Spiked Amount 20.000			Recovery = 98.25%				
32) Toluene-d8	9.856	98	876474	20.14	ppb		0.00
Spiked Amount 20.000			Recovery = 100.70%				
54) Bromofluorobenzene	14.254	95	426910	20.40	ppb		0.00
Spiked Amount 20.000			Recovery = 102.00%				
68) 1,2-Dichlorobenzene-d4	16.938	152	501235	20.00	ppb		0.00
Spiked Amount 20.000			Recovery = 100.00%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.733	85	53909	11.24	ppb		99
4) Chloromethane	1.940	50	43611	10.01	ppb		96
5) Vinyl chloride	2.037	62	49947	9.63	ppb		96
6) Bromomethane	2.400	96	40878	9.37	ppb		96
7) Chloroethane	2.523	64	29955	8.34	ppb		95
8) Trichlorofluoromethane	2.809	101	94813	10.45	ppb		97
9) Diethyl ether	3.182	59	39843	10.89	ppb		80
10) 1,1-Dichloroethene	3.455	61	70204	10.55	ppb		99
11) Acetone	3.574	43	24504	11.18	ppb		81
12) Methyl iodide	3.636	142	43137	9.81	ppb		97
13) Carbon disulfide	3.713	76	152418	10.07	ppb		100
14) Methylene chloride	4.129	84	55499	10.02	ppb		97
15) MTBE (2-methoxy-2-meth...	4.486	73	148299	10.18	ppb		84
16) trans-1,2-Dichloroethene	4.477	61	75471	10.36	ppb		90
17) Acrylonitrile	4.477	53	28968	10.12	ppb		95
18) 1,1-Dichloroethane	5.074	63	95718	9.96	ppb		98
19) Methyl ethyl ketone	6.719	43	24406	10.17	ppb		64
20) 2,2-Dichloropropane	5.852	77	76554	10.19	ppb		98
21) cis-1,2-Dichloroethene	5.857	96	53385	10.62	ppb		99
22) Bromochloromethane	6.179	130	36334	10.36	ppb		100
23) Chloroform	6.340	83	100235	10.28	ppb		96
25) 1,1,1-Trichloroethane	6.536	97	88793	10.30	ppb		98
26) 1,1-Dichloropropene	6.763	75	75674	11.41	ppb		83
27) Carbon tetrachloride	6.742	117	78224	10.56	ppb		100
28) Benzene	7.035	78	222218	10.32	ppb		100
29) 1,2-Dichloroethane	7.130	62	77490	9.50	ppb		96
30) Trichloroethene	8.001	130	55357	10.48	ppb		90
31) 1,2-Dichloropropane	8.384	63	51301	10.37	ppb		93
33) Dibromomethane	8.511	174	37641	10.23	ppb	#	58
34) Bromodichloromethane	8.794	83	69621	9.58	ppb		93
35) cis-1,3-Dichloropropene	9.463	75	70762	9.84	ppb		80
36) Methyl isobutyl ketone	9.725	43	49953	9.62	ppb		91

37)	Toluene	9.960	91	229265	10.30 ppb		99
39)	trans-1,3-Dichloropropene	10.373	75	68162	9.92 ppb		83
40)	1,1,2-Trichloroethane	10.674	97	48718	9.98 ppb		90
41)	Tetrachloroethene	10.763	166	69492	10.78 ppb		93
42)	2-Hexanone	11.064	43	35386	9.41 ppb		88
43)	1,3-Dichloropropane	10.926	76	82691	10.49 ppb		99
44)	Dibromochloromethane	11.258	129	50253	9.95 ppb		100
45)	1,2-Dibromoethane	11.423	107	48372	10.46 ppb		98
46)	Chlorobenzene	12.249	112	150481	9.40 ppb		85
47)	1,1,1,2-Tetrachloroethane	12.421	131	54211	10.03 ppb		98
48)	Ethylbenzene	12.440	91	244021	11.12 ppb		92
49)	m+p-Xylene	13.317	91	181645	23.01 ppb		87
50)	o-Xylene	13.317	91	181302	11.50 ppb		91
51)	Styrene	13.356	104	151044	11.94 ppb		84
52)	Bromoform	13.636	173	34649	9.77 ppb		99
53)	Isopropylbenzene	13.969	105	217538	11.98 ppb		99
55)	Bromobenzene	14.466	156	65387	10.32 ppb	#	65
56)	n-Propylbenzene	14.701	91	309626	11.71 ppb		92
57)	1,3,5-Trimethylbenzene	15.699	105	216688	11.98 ppb		93
58)	2-Chlorotoluene	14.701	91	309626	11.95 ppb	#	32
59)	4-Chlorotoluene	15.049	91	225189	11.41 ppb	#	85
60)	tert-Butylbenzene	15.586	91	115032	11.86 ppb	#	74
61)	1,1,2,2-Tetrachloroethane	14.554	83	72710	9.75 ppb		89
62)	trans-1,4-Dichloro-2-b...	14.621	53	20140	9.62 ppb		93
63)	1,2,3-Trichloropropane	14.621	110	24914	10.13 ppb		93
64)	1,2,4-Trimethylbenzene	15.699	105	216688	11.98 ppb		96
65)	sec-Butylbenzene	15.988	105	274913	12.34 ppb		93
66)	4-Isopropyltoluene	16.287	119	249004	11.47 ppb	#	96
69)	1,3-Dichlorobenzene	16.344	146	143576	9.94 ppb		97
70)	1,4-Dichlorobenzene	16.344	146	143576	9.94 ppb		97
71)	1,2-Dichlorobenzene	16.972	146	133525	9.87 ppb		96
72)	n-butylbenzene	17.018	91	236964	11.11 ppb	#	91
73)	1,2-Dibromo-3-chloropr...	18.417	157	13920	9.38 ppb		100
74)	1,2,4-Trichlorobenzene	19.903	180	68025	10.94 ppb		93
75)	Hexachlorobutadiene	20.204	225	46192	10.99 ppb		99
76)	Naphthalene	20.365	128	154822	10.14 ppb		95
77)	1,2,3-Trichlorobenzene	20.776	180	65849	10.98 ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

AUG29 8260.M Tue Sep 05 14:57:00 2023

Quantitation Report (Not Reviewed)

Data Path : T:\Data2\Voc\HP5975_VOC2\2023Data\SEP\05\
Data File : 00801008.D
Acq On : 5 Sep 2023 12:21 pm
Operator : BP
Sample : 15 PPB VOC ICAL
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 05 14:02:42 2023
Quant Method : T:\Data2\Voc\HP5975_VOC2\2023Method\SEP05 8260.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Tue Sep 05 13:56:46 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	7.480	96	908996	20.00	ppb		0.00
38) Chlorobenzene-d5	12.202	117	908569	20.00	ppb		0.00
67) 1,4-Dichlorobenzene-d4	16.938	152	522102	20.00	ppb		0.00
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4	7.021	65	256218	19.54	ppb		0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 97.70%				
24) Dibromofluoromethane	6.557	111	235764	19.93	ppb		0.00
Spiked Amount 20.000			Recovery = 99.65%				
32) Toluene-d8	9.856	98	911528	20.19	ppb		0.00
Spiked Amount 20.000			Recovery = 100.95%				
54) Bromofluorobenzene	14.254	95	445487	19.71	ppb		0.00
Spiked Amount 20.000			Recovery = 98.55%				
68) 1,2-Dichlorobenzene-d4	16.938	152	522102	20.00	ppb		0.00
Spiked Amount 20.000			Recovery = 100.00%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.732	85	81734	15.66	ppb		99
4) Chloromethane	1.940	50	67567	16.25	ppb		98
5) Vinyl chloride	2.040	62	76124	16.17	ppb		98
6) Bromomethane	2.403	96	61124	15.02	ppb		99
7) Chloroethane	2.523	64	56726	17.45	ppb		98
8) Trichlorofluoromethane	2.816	101	141779	16.44	ppb		96
9) Diethyl ether	3.184	59	62575	16.32	ppb		80
10) 1,1-Dichloroethene	3.462	61	107807	16.37	ppb		96
11) Acetone	3.587	43	31494	14.40	ppb		81
12) Methyl iodide	3.643	142	75007	16.22	ppb		93
13) Carbon disulfide	3.712	76	235107	16.07	ppb		100
14) Methylene chloride	4.130	84	85426	15.68	ppb		94
15) MTBE (2-methoxy-2-meth...	4.487	73	229825	15.18	ppb		83
16) trans-1,2-Dichloroethene	4.479	61	117357	16.33	ppb		89
17) Acrylonitrile	4.482	53	43396	15.43	ppb		98
18) 1,1-Dichloroethane	5.075	63	149926	15.84	ppb		98
19) Methyl ethyl ketone	6.719	43	39228	15.81	ppb		63
20) 2,2-Dichloropropane	5.852	77	121196	15.75	ppb		99
21) cis-1,2-Dichloroethene	5.858	96	86104	16.64	ppb		97
22) Bromochloromethane	6.180	130	55356	15.62	ppb		99
23) Chloroform	6.340	83	155206	15.95	ppb		96
25) 1,1,1-Trichloroethane	6.537	97	137556	16.16	ppb		99
26) 1,1-Dichloropropene	6.763	75	119491	17.62	ppb		82
27) Carbon tetrachloride	6.742	117	121075	16.02	ppb		99
28) Benzene	7.036	78	349282	16.17	ppb		98
29) 1,2-Dichloroethane	7.131	62	118545	15.15	ppb		96
30) Trichloroethene	8.002	130	88704	16.29	ppb		89
31) 1,2-Dichloropropane	8.384	63	81479	16.43	ppb		94
33) Dibromomethane	8.512	174	58911	15.94	ppb	#	55
34) Bromodichloromethane	8.794	83	109075	15.63	ppb		94
35) cis-1,3-Dichloropropene	9.464	75	119621	15.77	ppb		81
36) Methyl isobutyl ketone	9.726	43	86435	15.44	ppb		88

37)	Toluene	9.960	91	366677	16.55 ppb		99
39)	trans-1,3-Dichloropropene	10.374	75	113829	15.52 ppb		82
40)	1,1,2-Trichloroethane	10.675	97	76473	15.53 ppb		92
41)	Tetrachloroethene	10.763	166	107411	15.77 ppb		92
42)	2-Hexanone	11.065	43	59341	14.96 ppb		86
43)	1,3-Dichloropropane	10.926	76	132133	16.25 ppb		99
44)	Dibromochloromethane	11.259	129	80216	15.24 ppb		100
45)	1,2-Dibromoethane	11.424	107	77178	16.25 ppb		97
46)	Chlorobenzene	12.249	112	256675	15.78 ppb		85
47)	1,1,1,2-Tetrachloroethane	12.420	131	85738	15.60 ppb		97
48)	Ethylbenzene	12.439	91	399794	17.34 ppb		93
49)	m+p-Xylene	13.316	91	308505	37.00 ppb		87
50)	o-Xylene	13.316	91	308440	18.51 ppb		91
51)	Styrene	13.357	104	250362	18.67 ppb		81
52)	Bromoform	13.636	173	56104	15.14 ppb		99
53)	Isopropylbenzene	13.968	105	371122	18.99 ppb		100
55)	Bromobenzene	14.466	156	106235	16.22 ppb	#	66
56)	n-Propylbenzene	14.701	91	501929	18.12 ppb		92
57)	1,3,5-Trimethylbenzene	15.699	105	358332	19.04 ppb		93
58)	2-Chlorotoluene	14.701	91	501929	18.58 ppb	#	32
59)	4-Chlorotoluene	15.049	91	359898	17.81 ppb		87
60)	tert-Butylbenzene	15.586	91	191067	18.72 ppb	#	76
61)	1,1,2,2-Tetrachloroethane	14.554	83	115185	15.61 ppb		93
62)	trans-1,4-Dichloro-2-b...	14.621	53	32767	15.49 ppb		89
63)	1,2,3-Trichloropropane	14.622	110	38988	15.46 ppb		92
64)	1,2,4-Trimethylbenzene	15.699	105	358332	19.03 ppb		95
65)	sec-Butylbenzene	15.988	105	449169	18.98 ppb		94
66)	4-Isopropyltoluene	16.287	119	408824	17.92 ppb	#	96
69)	1,3-Dichlorobenzene	16.344	146	224452	15.95 ppb		97
70)	1,4-Dichlorobenzene	16.344	146	224452	15.95 ppb		98
71)	1,2-Dichlorobenzene	16.971	146	209699	15.91 ppb		96
72)	n-butylbenzene	17.018	91	376019	18.00 ppb	#	92
73)	1,2-Dibromo-3-chloropr...	18.418	157	23606	15.73 ppb		100
74)	1,2,4-Trichlorobenzene	19.903	180	115639	17.94 ppb		97
75)	Hexachlorobutadiene	20.204	225	68905	16.81 ppb		94
76)	Naphthalene	20.365	128	288516	16.44 ppb		96
77)	1,2,3-Trichlorobenzene	20.777	180	111834	18.17 ppb		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SEP05 8260.M Tue Sep 05 14:02:43 2023

Quantitation Report (Not Reviewed)

Data Path : T:\Data2\Voc\HP5975_VOC2\2023Data\SEP\05\
Data File : 00901009.D
Acq On : 5 Sep 2023 12:54 pm
Operator : BP
Sample : 20 PPB VOC ICAL
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 05 14:03:09 2023
Quant Method : T:\Data2\Voc\HP5975_VOC2\2023Method\SEP05 8260.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Tue Sep 05 13:56:46 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	7.480	96	936150	20.00	ppb		0.00
38) Chlorobenzene-d5	12.202	117	885277	20.00	ppb		0.00
67) 1,4-Dichlorobenzene-d4	16.938	152	537770	20.00	ppb		0.00
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4	7.021	65	260720	19.31	ppb		0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 96.55%				
24) Dibromofluoromethane	6.557	111	240762	19.76	ppb		0.00
Spiked Amount 20.000			Recovery = 98.80%				
32) Toluene-d8	9.856	98	935121	20.12	ppb		0.00
Spiked Amount 20.000			Recovery = 100.60%				
54) Bromofluorobenzene	14.254	95	457398	20.77	ppb		0.00
Spiked Amount 20.000			Recovery = 103.85%				
68) 1,2-Dichlorobenzene-d4	16.938	152	537770	20.00	ppb		0.00
Spiked Amount 20.000			Recovery = 100.00%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.733	85	108194	20.69	ppb		100
4) Chloromethane	1.940	50	85602	20.05	ppb		96
5) Vinyl chloride	2.040	62	99839	20.60	ppb		98
6) Bromomethane	2.400	96	80093	20.16	ppb		94
7) Chloroethane	2.526	64	69724	20.83	ppb		97
8) Trichlorofluoromethane	2.816	101	187527	21.11	ppb		98
9) Diethyl ether	3.183	59	87382	22.13	ppb		77
10) 1,1-Dichloroethene	3.462	61	146625	21.62	ppb		94
11) Acetone	3.580	43	41612	20.54	ppb		79
12) Methyl iodide	3.643	142	102852	21.04	ppb		90
13) Carbon disulfide	3.712	76	313858	20.83	ppb		100
14) Methylene chloride	4.131	84	114240	20.41	ppb		94
15) MTBE (2-methoxy-2-meth...	4.486	73	314175	20.59	ppb		83
16) trans-1,2-Dichloroethene	4.479	61	158198	21.38	ppb		89
17) Acrylonitrile	4.484	53	60229	21.23	ppb		97
18) 1,1-Dichloroethane	5.074	63	199475	20.47	ppb		98
19) Methyl ethyl ketone	6.718	43	52735	20.81	ppb		64
20) 2,2-Dichloropropane	5.852	77	161784	20.68	ppb		97
21) cis-1,2-Dichloroethene	5.857	96	118238	22.19	ppb		98
22) Bromochloromethane	6.180	130	74941	20.53	ppb		98
23) Chloroform	6.340	83	204857	20.44	ppb		97
25) 1,1,1-Trichloroethane	6.536	97	181532	20.71	ppb		99
26) 1,1-Dichloropropene	6.763	75	162090	23.21	ppb		83
27) Carbon tetrachloride	6.742	117	159889	20.54	ppb		99
28) Benzene	7.036	78	467018	21.00	ppb		99
29) 1,2-Dichloroethane	7.131	62	155403	19.29	ppb		97
30) Trichloroethene	8.002	130	120638	21.52	ppb		89
31) 1,2-Dichloropropane	8.384	63	109694	21.47	ppb		95
33) Dibromomethane	8.512	174	80067	21.03	ppb	#	57
34) Bromodichloromethane	8.794	83	145947	20.62	ppb		95
35) cis-1,3-Dichloropropene	9.464	75	167667	21.04	ppb		82
36) Methyl isobutyl ketone	9.726	43	122444	20.83	ppb		87

37)	Toluene	9.960	91	494202	21.65 ppb		100
39)	trans-1,3-Dichloropropene	10.374	75	157889	21.62 ppb		82
40)	1,1,2-Trichloroethane	10.675	97	103718	21.62 ppb		90
41)	Tetrachloroethene	10.763	166	145998	22.00 ppb		93
42)	2-Hexanone	11.065	43	85557	22.13 ppb		82
43)	1,3-Dichloropropane	10.926	76	180038	22.72 ppb		100
44)	Dibromochloromethane	11.259	129	109073	21.27 ppb		98
45)	1,2-Dibromoethane	11.424	107	105073	22.71 ppb		96
46)	Chlorobenzene	12.249	112	327333	20.65 ppb		86
47)	1,1,1,2-Tetrachloroethane	12.420	131	115235	21.51 ppb		96
48)	Ethylbenzene	12.439	91	547903	24.39 ppb		94
49)	m+p-Xylene	13.316	91	428912	52.79 ppb		88
50)	o-Xylene	13.316	91	428488	26.39 ppb		93
51)	Styrene	13.356	104	344511	26.37 ppb		84
52)	Bromoform	13.636	173	77256	21.41 ppb		98
53)	Isopropylbenzene	13.968	105	515885	27.10 ppb		100
55)	Bromobenzene	14.466	156	143290	22.45 ppb	#	67
56)	n-Propylbenzene	14.701	91	682684	25.30 ppb		92
57)	1,3,5-Trimethylbenzene	15.698	105	484536	26.42 ppb		95
58)	2-Chlorotoluene	14.701	91	681648	25.89 ppb	#	32
59)	4-Chlorotoluene	15.048	91	481260	24.44 ppb	#	86
60)	tert-Butylbenzene	15.585	91	261542	26.30 ppb	#	79
61)	1,1,2,2-Tetrachloroethane	14.554	83	155162	21.58 ppb		93
62)	trans-1,4-Dichloro-2-b...	14.620	53	44748	21.75 ppb		88
63)	1,2,3-Trichloropropane	14.621	110	51067	20.78 ppb		95
64)	1,2,4-Trimethylbenzene	15.698	105	484536	26.42 ppb		97
65)	sec-Butylbenzene	15.987	105	615167	26.67 ppb		95
66)	4-Isopropyltoluene	16.286	119	553021	24.88 ppb	#	96
69)	1,3-Dichlorobenzene	16.344	146	298531	20.59 ppb		97
70)	1,4-Dichlorobenzene	16.344	146	298531	20.59 ppb		97
71)	1,2-Dichlorobenzene	16.971	146	278908	20.54 ppb		95
72)	n-butylbenzene	17.018	91	508736	23.65 ppb	#	92
73)	1,2-Dibromo-3-chloropr...	18.417	157	32550	21.06 ppb		99
74)	1,2,4-Trichlorobenzene	19.902	180	166140	25.02 ppb		97
75)	Hexachlorobutadiene	20.203	225	91126	21.58 ppb		93
76)	Naphthalene	20.364	128	420493	21.55 ppb		96
77)	1,2,3-Trichlorobenzene	20.775	180	158170	24.95 ppb		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SEP05 8260.M Tue Sep 05 14:03:10 2023

Quantitation Report (Not Reviewed)

Data Path : T:\Data2\Voc\HP5975_VOC2\2023Data\SEP\05\
Data File : 01001010.D
Acq On : 5 Sep 2023 1:26 pm
Operator : BP
Sample : 30 PPB VOC ICAL
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 05 14:03:42 2023
Quant Method : T:\Data2\Voc\HP5975_VOC2\2023Method\SEP05 8260.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Tue Sep 05 13:56:46 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	7.479	96	998287	20.00	ppb		0.00
38) Chlorobenzene-d5	12.202	117	991353	20.00	ppb		0.00
67) 1,4-Dichlorobenzene-d4	16.938	152	577056	20.00	ppb		0.00
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4	7.020	65	270754	18.81	ppb		0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 94.05%				
24) Dibromofluoromethane	6.556	111	254974	19.62	ppb		0.00
Spiked Amount 20.000			Recovery = 98.10%				
32) Toluene-d8	9.855	98	1001130	20.20	ppb		0.00
Spiked Amount 20.000			Recovery = 101.00%				
54) Bromofluorobenzene	14.253	95	487665	19.78	ppb		0.00
Spiked Amount 20.000			Recovery = 98.90%				
68) 1,2-Dichlorobenzene-d4	16.938	152	577056	20.00	ppb		0.00
Spiked Amount 20.000			Recovery = 100.00%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.729	85	153911	28.95	ppb		99
4) Chloromethane	1.937	50	125528	27.65	ppb		98
5) Vinyl chloride	2.037	62	143403	27.74	ppb		98
6) Bromomethane	2.400	96	113573	29.93	ppb		99
7) Chloroethane	2.523	64	93767	26.27	ppb		98
8) Trichlorofluoromethane	2.816	101	267689	28.26	ppb		97
9) Diethyl ether	3.181	59	129346	30.72	ppb		77
10) 1,1-Dichloroethene	3.455	61	215542	29.80	ppb		97
11) Acetone	3.567	43	53880	29.47	ppb		77
12) Methyl iodide	3.643	142	157206	28.93	ppb		92
13) Carbon disulfide	3.712	76	458266	28.52	ppb		100
14) Methylene chloride	4.130	84	165442	27.76	ppb		95
15) MTBE (2-methoxy-2-meth...	4.485	73	463542	29.55	ppb		83
16) trans-1,2-Dichloroethene	4.477	61	227824	28.87	ppb		91
17) Acrylonitrile	4.482	53	84831	28.84	ppb		99
18) 1,1-Dichloroethane	5.073	63	289726	27.88	ppb		97
19) Methyl ethyl ketone	6.717	43	77431	29.06	ppb		63
20) 2,2-Dichloropropane	5.851	77	237695	29.13	ppb		98
21) cis-1,2-Dichloroethene	5.857	96	176565	31.07	ppb		98
22) Bromochloromethane	6.180	130	109676	28.18	ppb		100
23) Chloroform	6.340	83	297053	27.79	ppb		97
25) 1,1,1-Trichloroethane	6.535	97	264645	28.32	ppb		98
26) 1,1-Dichloropropene	6.762	75	238623	32.04	ppb		82
27) Carbon tetrachloride	6.742	117	231555	27.89	ppb		99
28) Benzene	7.035	78	685107	28.89	ppb		99
29) 1,2-Dichloroethane	7.130	62	225201	26.21	ppb		97
30) Trichloroethene	8.001	130	181093	30.29	ppb		90
31) 1,2-Dichloropropane	8.383	63	164445	30.19	ppb		96
33) Dibromomethane	8.511	174	118954	29.30	ppb	#	61
34) Bromodichloromethane	8.794	83	214626	29.22	ppb		94
35) cis-1,3-Dichloropropene	9.462	75	253870	29.10	ppb		83
36) Methyl isobutyl ketone	9.725	43	186587	29.30	ppb		88

37)	Toluene	9.960	91	723959	29.74 ppb		100
39)	trans-1,3-Dichloropropene	10.373	75	241319	28.76 ppb		84
40)	1,1,2-Trichloroethane	10.675	97	153155	28.51 ppb		90
41)	Tetrachloroethene	10.762	166	214914	28.92 ppb		93
42)	2-Hexanone	11.064	43	130498	30.14 ppb		84
43)	1,3-Dichloropropane	10.925	76	267478	30.15 ppb		100
44)	Dibromochloromethane	11.258	129	163907	28.54 ppb		98
45)	1,2-Dibromoethane	11.423	107	157644	30.43 ppb		97
46)	Chlorobenzene	12.249	112	464160	26.15 ppb		87
47)	1,1,1,2-Tetrachloroethane	12.420	131	171469	28.58 ppb		99
48)	Ethylbenzene	12.439	91	818083	32.52 ppb		94
49)	m+p-Xylene	13.315	91	643176	70.69 ppb		88
50)	o-Xylene	13.315	91	642781	35.35 ppb		92
51)	Styrene	13.356	104	517806	35.39 ppb		85
52)	Bromoform	13.637	173	117148	29.01 ppb		99
53)	Isopropylbenzene	13.968	105	777031	36.45 ppb		100
55)	Bromobenzene	14.466	156	215785	30.19 ppb	#	70
56)	n-Propylbenzene	14.701	91	1009318	33.40 ppb		93
57)	1,3,5-Trimethylbenzene	15.699	105	729106	35.50 ppb		93
58)	2-Chlorotoluene	14.701	91	1007623	34.18 ppb	#	32
59)	4-Chlorotoluene	15.048	91	705683	32.00 ppb	#	87
60)	tert-Butylbenzene	15.585	91	395413	35.51 ppb	#	77
61)	1,1,2,2-Tetrachloroethane	14.554	83	226805	28.17 ppb		94
62)	trans-1,4-Dichloro-2-b...	14.621	53	65787	28.61 ppb		87
63)	1,2,3-Trichloropropane	14.622	110	75367	27.38 ppb		97
64)	1,2,4-Trimethylbenzene	15.699	105	729106	35.50 ppb		95
65)	sec-Butylbenzene	15.987	105	930530	36.03 ppb		94
66)	4-Isopropyltoluene	16.286	119	829314	33.32 ppb		96
69)	1,3-Dichlorobenzene	16.345	146	442815	28.47 ppb		97
70)	1,4-Dichlorobenzene	16.345	146	442815	28.46 ppb		96
71)	1,2-Dichlorobenzene	16.972	146	413794	28.40 ppb		97
72)	n-butylbenzene	17.018	91	759713	32.91 ppb	#	93
73)	1,2-Dibromo-3-chloropr...	18.418	157	49648	29.94 ppb		97
74)	1,2,4-Trichlorobenzene	19.902	180	264725	37.16 ppb		97
75)	Hexachlorobutadiene	20.203	225	139925	30.88 ppb		94
76)	Naphthalene	20.363	128	662641	28.70 ppb		95
77)	1,2,3-Trichlorobenzene	20.776	180	244354	35.92 ppb		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SEP05 8260.M Tue Sep 05 14:03:43 2023

Quantitation Report (Not Reviewed)

Data Path : T:\Data2\Voc\HP5975_VOC2\2023Data\SEP\05\
Data File : 01201012.D
Acq On : 5 Sep 2023 2:31 pm
Operator : BP
Sample : 10 PPB VOC ICV
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 05 14:56:12 2023
Quant Method : T:\Data2\Voc\HP5975_VOC2\2023Method\AUG29 8260.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Tue Aug 29 13:16:06 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	7.479	96	962123	20.00	ppb		0.00
38) Chlorobenzene-d5	12.202	117	893524	20.00	ppb		0.00
67) 1,4-Dichlorobenzene-d4	16.938	152	538011	20.00	ppb		0.00
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4	7.021	65	263901	18.24	ppb		0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 91.20%				
24) Dibromofluoromethane	6.556	111	247206	19.30	ppb		0.00
Spiked Amount 20.000			Recovery = 96.50%				
32) Toluene-d8	9.855	98	958163	20.00	ppb		0.00
Spiked Amount 20.000			Recovery = 100.00%				
54) Bromofluorobenzene	14.253	95	462126	20.55	ppb		0.00
Spiked Amount 20.000			Recovery = 102.75%				
68) 1,2-Dichlorobenzene-d4	16.938	152	538011	20.00	ppb		0.00
Spiked Amount 20.000			Recovery = 100.00%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.733	85	52690	9.91	ppb		97
4) Chloromethane	1.943	50	43933	9.13	ppb		99
5) Vinyl chloride	2.037	62	49905	8.74	ppb		98
6) Bromomethane	2.400	96	43311	8.98	ppb		94
7) Chloroethane	2.523	64	36114	9.13	ppb		95
8) Trichlorofluoromethane	2.816	101	92966	9.31	ppb		95
9) Diethyl ether	3.182	59	43519	10.81	ppb		77
10) 1,1-Dichloroethene	3.455	61	71936	9.82	ppb		96
11) Acetone	3.580	43	22857	9.05	ppb		81
12) Methyl iodide	3.643	142	44540	9.22	ppb		91
13) Carbon disulfide	3.713	76	158700	9.52	ppb		100
14) Methylene chloride	4.130	84	58540	9.60	ppb		97
15) MTBE (2-methoxy-2-meth...	4.486	73	163534	10.20	ppb		84
16) trans-1,2-Dichloroethene	4.478	61	77706	9.69	ppb		89
17) Acrylonitrile	4.484	53	30053	9.49	ppb		95
18) 1,1-Dichloroethane	5.073	63	100103	9.46	ppb		98
19) Methyl ethyl ketone	6.717	43	25697	9.73	ppb		63
20) 2,2-Dichloropropane	5.852	77	77447	9.35	ppb		100
21) cis-1,2-Dichloroethene	5.857	96	57095	10.32	ppb		100
22) Bromochloromethane	6.179	130	37666	9.76	ppb		98
23) Chloroform	6.340	83	103032	9.60	ppb		98
25) 1,1,1-Trichloroethane	6.535	97	89542	9.43	ppb		99
26) 1,1-Dichloropropene	6.763	75	77840	10.66	ppb		82
27) Carbon tetrachloride	6.741	117	77582	9.51	ppb		99
28) Benzene	7.035	78	234240	9.88	ppb		98
29) 1,2-Dichloroethane	7.131	62	79520	8.86	ppb		95
30) Trichloroethene	8.001	130	59169	10.18	ppb		90
31) 1,2-Dichloropropane	8.383	63	54843	10.08	ppb		95
33) Dibromomethane	8.511	174	40306	9.95	ppb	#	55
34) Bromodichloromethane	8.794	83	71870	8.95	ppb		93
35) cis-1,3-Dichloropropene	9.463	75	78539	9.92	ppb		84
36) Methyl isobutyl ketone	9.726	43	57970	10.08	ppb		87

37)	Toluene	9.960	91	242814	9.92	ppb		100
39)	trans-1,3-Dichloropropene	10.373	75	74556	10.10	ppb		82
40)	1,1,2-Trichloroethane	10.674	97	52564	10.02	ppb		91
41)	Tetrachloroethene	10.762	166	71538	10.33	ppb		92
42)	2-Hexanone	11.066	43	40137	9.94	ppb		83
43)	1,3-Dichloropropane	10.925	76	89424	10.56	ppb		99
44)	Dibromochloromethane	11.258	129	53542	9.87	ppb		96
45)	1,2-Dibromoethane	11.423	107	52194	10.50	ppb		98
46)	Chlorobenzene	12.248	112	158096	9.19	ppb		87
47)	1,1,1,2-Tetrachloroethane	12.420	131	56903	9.80	ppb		95
48)	Ethylbenzene	12.439	91	258274	10.95	ppb		93
49)	m+p-Xylene	13.316	91	195697	23.08	ppb		87
50)	o-Xylene	13.316	91	195587	11.55	ppb		91
51)	Styrene	13.356	104	160289	11.80	ppb		82
52)	Bromoform	13.636	173	37585	9.87	ppb		97
53)	Isopropylbenzene	13.968	105	232386	11.91	ppb		99
55)	Bromobenzene	14.465	156	71091	10.45	ppb	#	68
56)	n-Propylbenzene	14.700	91	320582	11.28	ppb		92
57)	1,3,5-Trimethylbenzene	15.698	105	225096	11.59	ppb		93
58)	2-Chlorotoluene	14.700	91	320582	11.51	ppb	#	32
59)	4-Chlorotoluene	15.048	91	232275	10.96	ppb	#	87
60)	tert-Butylbenzene	15.585	91	120943	11.61	ppb	#	77
61)	1,1,2,2-Tetrachloroethane	14.553	83	77215	9.64	ppb		94
62)	trans-1,4-Dichloro-2-b...	14.620	53	21230	9.43	ppb		88
63)	1,2,3-Trichloropropane	14.620	110	26205	9.91	ppb		94
64)	1,2,4-Trimethylbenzene	15.698	105	225096	11.59	ppb		95
65)	sec-Butylbenzene	15.987	105	285868	11.95	ppb		93
66)	4-Isopropyltoluene	16.286	119	258075	11.06	ppb	#	95
69)	1,3-Dichlorobenzene	16.343	146	147418	9.51	ppb		94
70)	1,4-Dichlorobenzene	16.343	146	147418	9.51	ppb		95
71)	1,2-Dichlorobenzene	16.971	146	138793	9.56	ppb		92
72)	n-butylbenzene	17.017	91	238859	10.43	ppb	#	91
73)	1,2-Dibromo-3-chloropr...	18.417	157	15325	9.62	ppb		99
74)	1,2,4-Trichlorobenzene	19.902	180	73785	11.06	ppb		99
75)	Hexachlorobutadiene	20.203	225	46790	10.37	ppb		99
76)	Naphthalene	20.364	128	180126	10.86	ppb		95
77)	1,2,3-Trichlorobenzene	20.776	180	75031	11.66	ppb		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

AUG29 8260.M Tue Sep 05 14:56:13 2023

Quantitation Report (Not Reviewed)

Data Path : T:\Data2\Voc\HP5975_VOC2\2023Data\SEP\05\
Data File : 01401014.D
Acq On : 5 Sep 2023 3:36 pm
Operator : BP
Sample : MDI0021-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 06 08:59:41 2023
Quant Method : T:\Data2\Voc\HP5975_VOC2\2023Method\SEP05 8260.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Tue Sep 05 13:56:46 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.480	96	902295	20.00	ppb	0.00
38) Chlorobenzene-d5	12.202	117	857329	20.00	ppb	0.00
67) 1,4-Dichlorobenzene-d4	16.938	152	482372	20.00	ppb	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4	7.021	65	255535	19.64	ppb	0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 98.20%			
24) Dibromofluoromethane	6.557	111	232664	19.81	ppb	0.00
Spiked Amount 20.000			Recovery = 99.05%			
32) Toluene-d8	9.856	98	867175	19.35	ppb	0.00
Spiked Amount 20.000			Recovery = 96.75%			
54) Bromofluorobenzene	14.255	95	407581	19.11	ppb	0.00
Spiked Amount 20.000			Recovery = 95.55%			
68) 1,2-Dichlorobenzene-d4	16.938	152	482372	20.00	ppb	0.00
Spiked Amount 20.000			Recovery = 100.00%			
Target Compounds						Qvalue
4) Chloromethane	1.940	50	693	Below Cal	#	43
11) Acetone	3.587	43	3327	0.87	ppb	72
15) MTBE (2-methoxy-2-meth...	4.485	73	13850	0.87	ppb	83

ND

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SEP05 8260.M Wed Sep 06 08:59:42 2023

Quantitation Report (Not Reviewed)

Data Path : T:\Data2\Voc\HP5975_VOC2\2023Data\SEP\05\
Data File : 01501015.D
Acq On : 5 Sep 2023 4:08 pm
Operator : BP
Sample : MDI0021-02
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 06 09:01:29 2023
Quant Method : T:\Data2\Voc\HP5975_VOC2\2023Method\SEP05 8260.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Tue Sep 05 13:56:46 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.480	96	859675	20.00	ppb	0.00
38) Chlorobenzene-d5	12.202	117	768983	20.00	ppb	0.00
67) 1,4-Dichlorobenzene-d4	16.938	152	463104	20.00	ppb	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4	7.022	65	248544	20.05	ppb	0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 100.25%			
24) Dibromofluoromethane	6.557	111	224984	20.11	ppb	0.00
Spiked Amount 20.000			Recovery = 100.55%			
32) Toluene-d8	9.856	98	826904	19.37	ppb	0.00
Spiked Amount 20.000			Recovery = 96.85%			
54) Bromofluorobenzene	14.254	95	391773	20.48	ppb	0.00
Spiked Amount 20.000			Recovery = 102.40%			
68) 1,2-Dichlorobenzene-d4	16.938	152	463104	20.00	ppb	0.00
Spiked Amount 20.000			Recovery = 100.00%			
Target Compounds						Qvalue
4) Chloromethane	1.937	50	848	Below Cal		72
11) Acetone	3.587	43	11018	4.32	ppb	78
15) MTBE (2-methoxy-2-meth...	4.487	73	12810	~~0.85~~	~~ppb~~	~~88~~

NP

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SEP05 8260.M Wed Sep 06 09:01:30 2023

Quantitation Report (Not Reviewed)

Data Path : T:\Data2\Voc\HP5975_VOC2\2023Data\SEP\05\
Data File : 01601016.D
Acq On : 5 Sep 2023 4:41 pm
Operator : BP
Sample : MDI0021-03
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 06 09:01:48 2023
Quant Method : T:\Data2\Voc\HP5975_VOC2\2023Method\SEP05 8260.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Tue Sep 05 13:56:46 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.480	96	828737	20.00	ppb	0.00
38) Chlorobenzene-d5	12.203	117	825058	20.00	ppb	0.00
67) 1,4-Dichlorobenzene-d4	16.938	152	453640	20.00	ppb	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4	7.022	65	243495	20.37	ppb	0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 101.85%			
24) Dibromofluoromethane	6.558	111	219327	20.33	ppb	0.00
Spiked Amount 20.000			Recovery = 101.65%			
32) Toluene-d8	9.856	98	798640	19.41	ppb	0.00
Spiked Amount 20.000			Recovery = 97.05%			
54) Bromofluorobenzene	14.255	95	381402	18.58	ppb	0.00
Spiked Amount 20.000			Recovery = 92.90%			
68) 1,2-Dichlorobenzene-d4	16.938	152	453640	20.00	ppb	0.00
Spiked Amount 20.000			Recovery = 100.00%			
Target Compounds						Qvalue
11) Acetone	3.594	43	3765	1.18	ppb	83
15) MTBE (2-methoxy-2-meth...	4.487	73	11796	~~0.81~~	~~ppb~~	~~88~~

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SEP05 8260.M Wed Sep 06 09:01:49 2023

Quantitation Report (Not Reviewed)

Data Path : T:\Data2\Voc\HP5975_VOC2\2023Data\SEP\05\
Data File : 01701017.D
Acq On : 5 Sep 2023 5:13 pm
Operator : BP
Sample : MDI0021-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 06 09:02:10 2023
Quant Method : T:\Data2\Voc\HP5975_VOC2\2023Method\SEP05 8260.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Tue Sep 05 13:56:46 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.480	96	812461	20.00	ppb	0.00
38) Chlorobenzene-d5	12.203	117	779909	20.00	ppb	0.00
67) 1,4-Dichlorobenzene-d4	16.939	152	448047	20.00	ppb	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4	7.022	65	244377	20.86	ppb	0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 104.30%			
24) Dibromofluoromethane	6.557	111	216131	20.44	ppb	0.00
Spiked Amount 20.000			Recovery = 102.20%			
32) Toluene-d8	9.857	98	783960	19.43	ppb	0.00
Spiked Amount 20.000			Recovery = 97.15%			
54) Bromofluorobenzene	14.255	95	374706	19.31	ppb	0.00
Spiked Amount 20.000			Recovery = 96.55%			
68) 1,2-Dichlorobenzene-d4	16.939	152	448047	20.00	ppb	0.00
Spiked Amount 20.000			Recovery = 100.00%			
Target Compounds						Qvalue
11) Acetone	3.601	43	6132	2.29	ppb	83
15) MTBE (2-methoxy-2-meth...	4.487	73	11350	0.79	ppb	85

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SEP05 8260.M Wed Sep 06 09:02:11 2023

Quantitation Report (Not Reviewed)

Data Path : T:\Data2\Voc\HP5975_VOC2\2023Data\SEP\05\
Data File : 01801018.D
Acq On : 5 Sep 2023 5:46 pm
Operator : BP
Sample : MDI0021-05
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 06 09:02:22 2023
Quant Method : T:\Data2\Voc\HP5975_VOC2\2023Method\SEP05 8260.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Tue Sep 05 13:56:46 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.481	96	790089	20.00	ppb	0.00
38) Chlorobenzene-d5	12.203	117	801472	20.00	ppb	0.00
67) 1,4-Dichlorobenzene-d4	16.939	152	434763	20.00	ppb	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4	7.023	65	239338	21.00	ppb	0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 105.00%			
24) Dibromofluoromethane	6.558	111	211039	20.52	ppb	0.00
Spiked Amount 20.000			Recovery = 102.60%			
32) Toluene-d8	9.857	98	765699	19.52	ppb	0.00
Spiked Amount 20.000			Recovery = 97.60%			
54) Bromofluorobenzene	14.256	95	362408	18.18	ppb	0.00
Spiked Amount 20.000			Recovery = 90.90%			
68) 1,2-Dichlorobenzene-d4	16.939	152	434763	20.00	ppb	0.00
Spiked Amount 20.000			Recovery = 100.00%			
Target Compounds						Qvalue
4) Chloromethane	1.937	50	629	Below Cal		64
11) Acetone	3.594	43	3578	1.17	ppb	88
15) MTBE (2-methoxy-2-meth...	4.488	73	10720	~~0.77~~	ppb	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SEP05 8260.M Wed Sep 06 09:02:23 2023

Quantitation Report (Not Reviewed)

Data Path : T:\Data2\Voc\HP5975_VOC2\2023Data\SEP\05\
Data File : 01901019.D
Acq On : 5 Sep 2023 6:18 pm
Operator : BP
Sample : MDI0021-06
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 06 09:02:38 2023
Quant Method : T:\Data2\Voc\HP5975_VOC2\2023Method\SEP05 8260.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Tue Sep 05 13:56:46 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.480	96	756034	20.00	ppb	0.00
38) Chlorobenzene-d5	12.203	117	689300	20.00	ppb	0.00
67) 1,4-Dichlorobenzene-d4	16.939	152	415978	20.00	ppb	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4	7.022	65	228070	20.92	ppb	0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 104.60%			
24) Dibromofluoromethane	6.558	111	203127	20.64	ppb	0.00
Spiked Amount 20.000			Recovery = 103.20%			
32) Toluene-d8	9.857	98	729794	19.44	ppb	0.00
Spiked Amount 20.000			Recovery = 97.20%			
54) Bromofluorobenzene	14.255	95	345966	20.18	ppb	0.00
Spiked Amount 20.000			Recovery = 100.90%			
68) 1,2-Dichlorobenzene-d4	16.939	152	415978	20.00	ppb	0.00
Spiked Amount 20.000			Recovery = 100.00%			
Target Compounds						Qvalue
11) Acetone	3.580	43	4339	1.62	ppb	79

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : T:\Data2\Voc\HP5975_VOC2\2023Data\SEP\05\
Data File : 02001020.D
Acq On : 5 Sep 2023 6:51 pm
Operator : BP
Sample : MDI0021-07
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 06 09:03:05 2023
Quant Method : T:\Data2\Voc\HP5975_VOC2\2023Method\SEP05 8260.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Tue Sep 05 13:56:46 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.481	96	746469	20.00	ppb	0.00
38) Chlorobenzene-d5	12.203	117	725410	20.00	ppb	0.00
67) 1,4-Dichlorobenzene-d4	16.939	152	416218	20.00	ppb	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4	7.023	65	228546	21.23	ppb	0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 106.15%			
24) Dibromofluoromethane	6.558	111	201342	20.72	ppb	0.00
Spiked Amount 20.000			Recovery = 103.60%			
32) Toluene-d8	9.857	98	725741	19.58	ppb	0.00
Spiked Amount 20.000			Recovery = 97.90%			
54) Bromofluorobenzene	14.256	95	343129	19.02	ppb	0.00
Spiked Amount 20.000			Recovery = 95.10%			
68) 1,2-Dichlorobenzene-d4	16.939	152	416218	20.00	ppb	0.00
Spiked Amount 20.000			Recovery = 100.00%			
Target Compounds						Qvalue
4) Chloromethane	1.930	50	738	Below Cal	#	55
11) Acetone	3.581	43	2338	0.67	ppb	87

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : T:\Data2\Voc\HP5975_VOC2\2023Data\SEP\05\
Data File : 02101021.D
Acq On : 5 Sep 2023 7:23 pm
Operator : BP
Sample : MDI0022-01
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Sep 06 09:03:18 2023
Quant Method : T:\Data2\Voc\HP5975_VOC2\2023Method\SEP05 8260.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Tue Sep 05 13:56:46 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.481	96	737160	20.00	ppb	0.00
38) Chlorobenzene-d5	12.203	117	699478	20.00	ppb	0.00
67) 1,4-Dichlorobenzene-d4	16.939	152	410596	20.00	ppb	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4	7.023	65	225235	21.19	ppb	0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 105.95%			
24) Dibromofluoromethane	6.558	111	199286	20.77	ppb	0.00
Spiked Amount 20.000			Recovery = 103.85%			
32) Toluene-d8	9.857	98	714044	19.51	ppb	0.00
Spiked Amount 20.000			Recovery = 97.55%			
54) Bromofluorobenzene	14.255	95	336901	19.36	ppb	0.00
Spiked Amount 20.000			Recovery = 96.80%			
68) 1,2-Dichlorobenzene-d4	16.939	152	410596	20.00	ppb	0.00
Spiked Amount 20.000			Recovery = 100.00%			
Target Compounds						Qvalue
11) Acetone	3.601	43	2359	0.69	ppb	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : T:\Data2\Voc\HP5975_VOC2\2023Data\SEP\05\
Data File : 02201022.D
Acq On : 5 Sep 2023 7:56 pm
Operator : BP
Sample : MDI0022-02
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Sep 06 09:03:31 2023
Quant Method : T:\Data2\Voc\HP5975_VOC2\2023Method\SEP05 8260.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Tue Sep 05 13:56:46 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.481	96	721505	20.00	ppb	0.00
38) Chlorobenzene-d5	12.203	117	705996	20.00	ppb	0.00
67) 1,4-Dichlorobenzene-d4	16.939	152	406878	20.00	ppb	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4	7.022	65	221918	21.33	ppb	0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 106.65%			
24) Dibromofluoromethane	6.558	111	196439	20.92	ppb	0.00
Spiked Amount 20.000			Recovery = 104.60%			
32) Toluene-d8	9.857	98	701883	19.59	ppb	0.00
Spiked Amount 20.000			Recovery = 97.95%			
54) Bromofluorobenzene	14.256	95	331739	18.89	ppb	0.00
Spiked Amount 20.000			Recovery = 94.45%			
68) 1,2-Dichlorobenzene-d4	16.939	152	406878	20.00	ppb	0.00
Spiked Amount 20.000			Recovery = 100.00%			
Target Compounds						Qvalue
4) Chloromethane	1.937	50	2603	~~0.57~~	~~ppb~~	~~91~~
11) Acetone	3.587	43	2365	0.72	ppb	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : T:\Data2\Voc\HP5975_VOC2\2023Data\SEP\05\
Data File : 02301023.D
Acq On : 5 Sep 2023 8:28 pm
Operator : BP
Sample : MDI0022-03
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Sep 06 09:03:47 2023
Quant Method : T:\Data2\Voc\HP5975_VOC2\2023Method\SEP05 8260.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Tue Sep 05 13:56:46 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.480	96	720221	20.00	ppb	0.00
38) Chlorobenzene-d5	12.203	117	690836	20.00	ppb	0.00
67) 1,4-Dichlorobenzene-d4	16.939	152	402753	20.00	ppb	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4	7.022	65	221849	21.36	ppb	0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 106.80%			
24) Dibromofluoromethane	6.558	111	196060	20.91	ppb	0.00
Spiked Amount 20.000			Recovery = 104.55%			
32) Toluene-d8	9.857	98	695814	19.46	ppb	0.00
Spiked Amount 20.000			Recovery = 97.30%			
54) Bromofluorobenzene	14.256	95	329699	19.19	ppb	0.00
Spiked Amount 20.000			Recovery = 95.95%			
68) 1,2-Dichlorobenzene-d4	16.939	152	402753	20.00	ppb	0.00
Spiked Amount 20.000			Recovery = 100.00%			
Target Compounds						Qvalue
4) Chloromethane	1.946	50	678	Below Cal		66
11) Acetone	3.594	43	4258	1.68	ppb	76

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : T:\Data2\Voc\HP5975_VOC2\2023Data\SEP\05\
Data File : 02401024.D
Acq On : 5 Sep 2023 9:01 pm
Operator : BP
Sample : MDI0022-04
Misc :
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 06 09:04:15 2023
Quant Method : T:\Data2\Voc\HP5975_VOC2\2023Method\SEP05 8260.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Tue Sep 05 13:56:46 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.481	96	697435	20.00	ppb	0.00
38) Chlorobenzene-d5	12.203	117	680496	20.00	ppb	0.00
67) 1,4-Dichlorobenzene-d4	16.939	152	390989	20.00	ppb	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4	7.022	65	215371	21.41	ppb	0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 107.05%			
24) Dibromofluoromethane	6.558	111	189657	20.89	ppb	0.00
Spiked Amount 20.000			Recovery = 104.45%			
32) Toluene-d8	9.857	98	677228	19.56	ppb	0.00
Spiked Amount 20.000			Recovery = 97.80%			
54) Bromofluorobenzene	14.256	95	319701	18.89	ppb	0.00
Spiked Amount 20.000			Recovery = 94.45%			
68) 1,2-Dichlorobenzene-d4	16.939	152	390989	20.00	ppb	0.00
Spiked Amount 20.000			Recovery = 100.00%			
Target Compounds						Qvalue
11) Acetone	3.601	43	3265	1.23	ppb	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : T:\Data2\Voc\HP5975_VOC2\2023Data\SEP\05\
Data File : 02501025.D
Acq On : 5 Sep 2023 9:33 pm
Operator : BP
Sample : MDI0025-02
Misc :
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 06 09:05:30 2023
Quant Method : T:\Data2\Voc\HP5975_VOC2\2023Method\SEP05 8260.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Tue Sep 05 13:56:46 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.481	96	707322	20.00	ppb	0.00
38) Chlorobenzene-d5	12.204	117	671361	20.00	ppb	0.00
67) 1,4-Dichlorobenzene-d4	16.940	152	397589	20.00	ppb	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4	7.023	65	219458	21.51	ppb	0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 107.55%			
24) Dibromofluoromethane	6.558	111	193694	21.04	ppb	0.00
Spiked Amount 20.000			Recovery = 105.20%			
32) Toluene-d8	9.858	98	689786	19.64	ppb	0.00
Spiked Amount 20.000			Recovery = 98.20%			
54) Bromofluorobenzene	14.256	95	325096	19.47	ppb	0.00
Spiked Amount 20.000			Recovery = 97.35%			
68) 1,2-Dichlorobenzene-d4	16.940	152	397589	20.00	ppb	0.00
Spiked Amount 20.000			Recovery = 100.00%			
Target Compounds						Qvalue
4) Chloromethane	1.930	50	579	Below Cal		79
11) Acetone	3.580	43	2897	1.01	ppb	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SEP05 8260.M Wed Sep 06 09:05:31 2023

Quantitation Report (Not Reviewed)

Data Path : T:\Data2\Voc\HP5975_VOC2\2023Data\SEP\05\
Data File : 02601026.D
Acq On : 5 Sep 2023 10:05 pm
Operator : BP
Sample : MDI0025-03
Misc :
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Sep 06 09:05:42 2023
Quant Method : T:\Data2\Voc\HP5975_VOC2\2023Method\SEP05 8260.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Tue Sep 05 13:56:46 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.481	96	695272	20.00	ppb	0.00
38) Chlorobenzene-d5	12.204	117	705173	20.00	ppb	0.00
67) 1,4-Dichlorobenzene-d4	16.939	152	389895	20.00	ppb	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4	7.023	65	214012	21.34	ppb	0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 106.70%			
24) Dibromofluoromethane	6.558	111	189132	20.90	ppb	0.00
Spiked Amount 20.000			Recovery = 104.50%			
32) Toluene-d8	9.858	98	675369	19.56	ppb	0.00
Spiked Amount 20.000			Recovery = 97.80%			
54) Bromofluorobenzene	14.256	95	318608	18.16	ppb	0.00
Spiked Amount 20.000			Recovery = 90.80%			
68) 1,2-Dichlorobenzene-d4	16.939	152	389895	20.00	ppb	0.00
Spiked Amount 20.000			Recovery = 100.00%			
Target Compounds						Qvalue
11) Acetone	3.594	43	3936	1.59	ppb	83

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : T:\Data2\Voc\HP5975_VOC2\2023Data\SEP\05\
Data File : 02701027.D
Acq On : 5 Sep 2023 10:38 pm
Operator : BP
Sample : MDI0025-04
Misc :
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Sep 06 09:05:55 2023
Quant Method : T:\Data2\Voc\HP5975_VOC2\2023Method\SEP05 8260.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Tue Sep 05 13:56:46 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.481	96	701615	20.00	ppb	0.00
38) Chlorobenzene-d5	12.203	117	691843	20.00	ppb	0.00
67) 1,4-Dichlorobenzene-d4	16.939	152	397471	20.00	ppb	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4	7.023	65	218364	21.58	ppb	0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 107.90%			
24) Dibromofluoromethane	6.558	111	191720	20.99	ppb	0.00
Spiked Amount 20.000			Recovery = 104.95%			
32) Toluene-d8	9.857	98	678650	19.48	ppb	0.00
Spiked Amount 20.000			Recovery = 97.40%			
54) Bromofluorobenzene	14.256	95	320731	18.64	ppb	0.00
Spiked Amount 20.000			Recovery = 93.20%			
68) 1,2-Dichlorobenzene-d4	16.939	152	397471	20.00	ppb	0.00
Spiked Amount 20.000			Recovery = 100.00%			
Target Compounds						Qvalue
4) Chloromethane	1.937	50	319	Below Cal	#	1
11) Acetone	3.587	43	4532	1.88	ppb	87

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : T:\Data2\Voc\HP5975_VOC2\2023Data\SEP\05\
Data File : 02801028.D
Acq On : 5 Sep 2023 11:10 pm
Operator : BP
Sample : MDI0021-01 MS
Misc :
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Sep 06 09:07:14 2023
Quant Method : T:\Data2\Voc\HP5975_VOC2\2023Method\SEP05 8260.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Tue Sep 05 13:56:46 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	7.480	96	719869	20.00	ppb		0.00
38) Chlorobenzene-d5	12.203	117	708712	20.00	ppb		0.00
67) 1,4-Dichlorobenzene-d4	16.939	152	439288	20.00	ppb		0.00
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4	7.021	65	221093	21.30	ppb		0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 106.50%				
24) Dibromofluoromethane	6.557	111	196423	20.96	ppb		0.00
Spiked Amount 20.000			Recovery = 104.80%				
32) Toluene-d8	9.856	98	742650	20.78	ppb		0.00
Spiked Amount 20.000			Recovery = 103.90%				
54) Bromofluorobenzene	14.254	95	369638	20.97	ppb		0.00
Spiked Amount 20.000			Recovery = 104.85%				
68) 1,2-Dichlorobenzene-d4	16.939	152	439288	20.00	ppb		0.00
Spiked Amount 20.000			Recovery = 100.00%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.733	85	38033	8.87	ppb		99
4) Chloromethane	1.937	50	34968	10.54	ppb		96
5) Vinyl chloride	2.040	62	38115	10.23	ppb		94
6) Bromomethane	2.403	96	31361	9.19	ppb		98
7) Chloroethane	2.526	64	28781	11.18	ppb		97
8) Trichlorofluoromethane	2.816	101	67324	9.86	ppb		96
9) Diethyl ether	3.186	59	24611	8.11	ppb		75
10) 1,1-Dichloroethene	3.462	61	45284	8.68	ppb		97
11) Acetone	3.587	43	17877	9.46	ppb		73
12) Methyl iodide	3.643	142	24274	6.99	ppb		98
13) Carbon disulfide	3.712	76	110422	9.53	ppb		100
14) Methylene chloride	4.130	84	40775	9.39	ppb		95
15) MTBE (2-methoxy-2-meth...	4.488	73	94614	7.66	ppb		85
16) trans-1,2-Dichloroethene	4.480	61	53691	9.44	ppb		86
17) Acrylonitrile	4.486	53	21340	9.38	ppb		97
18) 1,1-Dichloroethane	5.074	63	69400	9.26	ppb		97
19) Methyl ethyl ketone	6.720	43	17268	8.68	ppb		66
20) 2,2-Dichloropropane	5.853	77	53370	8.60	ppb		98
21) cis-1,2-Dichloroethene	5.858	96	36550	8.92	ppb		98
22) Bromochloromethane	6.180	130	26736	9.53	ppb		98
23) Chloroform	6.341	83	75605	9.81	ppb		96
25) 1,1,1-Trichloroethane	6.537	97	64054	9.50	ppb		95
26) 1,1-Dichloropropene	6.763	75	52995	9.87	ppb		83
27) Carbon tetrachloride	6.742	117	57976	9.68	ppb		95
28) Benzene	7.036	78	162447	9.50	ppb		99
29) 1,2-Dichloroethane	7.132	62	59116	9.54	ppb		97
30) Trichloroethene	8.002	130	37914	8.79	ppb		91
31) 1,2-Dichloropropane	8.384	63	36140	9.20	ppb		93
33) Dibromomethane	8.512	174	27497	9.39	ppb	#	55
34) Bromodichloromethane	8.794	83	51813	9.19	ppb		95
35) cis-1,3-Dichloropropene	9.464	75	45364	7.87	ppb		81
36) Methyl isobutyl ketone	9.727	43	35170	8.45	ppb		94

37)	Toluene	9.961	91	168313	9.59 ppb		99
39)	trans-1,3-Dichloropropene	10.375	75	44881	8.07 ppb		82
40)	1,1,2-Trichloroethane	10.674	97	36616	9.53 ppb		88
41)	Tetrachloroethene	10.763	166	49327	9.28 ppb		90
42)	2-Hexanone	11.067	43	25491	8.24 ppb		92
43)	1,3-Dichloropropane	10.926	76	59996	9.46 ppb		100
44)	Dibromochloromethane	11.258	129	36989	9.01 ppb		95
45)	1,2-Dibromoethane	11.423	107	34570	9.33 ppb		98
46)	Chlorobenzene	12.249	112	116778	9.13 ppb		84
47)	1,1,1,2-Tetrachloroethane	12.420	131	40345	9.41 ppb		96
48)	Ethylbenzene	12.440	91	170637	9.49 ppb		93
49)	m+p-Xylene	13.318	91	119606	18.39 ppb		87
50)	o-Xylene	13.318	91	119428	9.19 ppb		92
51)	Styrene	13.357	104	105651	10.10 ppb		83
52)	Bromoform	13.636	173	25367	8.77 ppb		99
53)	Isopropylbenzene	13.969	105	141695	9.30 ppb		99
55)	Bromobenzene	14.466	156	47556	9.31 ppb	#	66
56)	n-Propylbenzene	14.701	91	221387	10.25 ppb	#	89
57)	1,3,5-Trimethylbenzene	15.699	105	153333	10.44 ppb		91
58)	2-Chlorotoluene	14.701	91	221387	10.25 ppb	#	32
59)	4-Chlorotoluene	15.049	91	164783	10.45 ppb	#	85
60)	tert-Butylbenzene	15.587	91	77246	9.70 ppb	#	73
61)	1,1,2,2-Tetrachloroethane	14.554	83	57616	10.01 ppb		93
62)	trans-1,4-Dichloro-2-b...	14.621	53	14097	8.52 ppb		89
63)	1,2,3-Trichloropropane	14.621	110	18950	9.63 ppb		99
64)	1,2,4-Trimethylbenzene	15.699	105	153333	10.44 ppb		93
65)	sec-Butylbenzene	15.989	105	187854	10.17 ppb	#	92
66)	4-Isopropyltoluene	16.288	119	175041	9.84 ppb	#	95
69)	1,3-Dichlorobenzene	16.344	146	106835	9.02 ppb		97
70)	1,4-Dichlorobenzene	16.344	146	106835	9.02 ppb		96
71)	1,2-Dichlorobenzene	16.971	146	100853	9.09 ppb		94
72)	n-butylbenzene	17.018	91	166188	9.46 ppb	#	92
73)	1,2-Dibromo-3-chloropr...	18.418	157	10119	8.02 ppb		92
74)	1,2,4-Trichlorobenzene	19.903	180	40166	7.41 ppb		96
75)	Hexachlorobutadiene	20.204	225	32560	9.44 ppb		98
76)	Naphthalene	20.365	128	91383	7.22 ppb		94
77)	1,2,3-Trichlorobenzene	20.776	180	43590	8.42 ppb		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SEP05 8260.M Wed Sep 06 09:07:15 2023

Quantitation Report (Not Reviewed)

Data Path : T:\Data2\Voc\HP5975_VOC2\2023Data\SEP\05\
Data File : 02901029.D
Acq On : 5 Sep 2023 11:42 pm
Operator : BP
Sample : MDI0021-01 MSD
Misc :
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Sep 06 09:07:53 2023
Quant Method : T:\Data2\Voc\HP5975_VOC2\2023Method\SEP05 8260.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Tue Sep 05 13:56:46 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	7.480	96	757963	20.00	ppb		0.00
38) Chlorobenzene-d5	12.203	117	754991	20.00	ppb		0.00
67) 1,4-Dichlorobenzene-d4	16.938	152	444935	20.00	ppb		0.00
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4	7.021	65	224460	20.53	ppb		0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 102.65%				
24) Dibromofluoromethane	6.557	111	204434	20.72	ppb		0.00
Spiked Amount 20.000			Recovery = 103.60%				
32) Toluene-d8	9.856	98	773004	20.54	ppb		0.00
Spiked Amount 20.000			Recovery = 102.70%				
54) Bromofluorobenzene	14.254	95	383000	20.39	ppb		0.00
Spiked Amount 20.000			Recovery = 101.95%				
68) 1,2-Dichlorobenzene-d4	16.938	152	444935	20.00	ppb		0.00
Spiked Amount 20.000			Recovery = 100.00%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.729	85	42492	9.44	ppb		100
4) Chloromethane	1.937	50	38363	10.99	ppb		98
5) Vinyl chloride	2.041	62	41942	10.69	ppb		95
6) Bromomethane	2.400	96	33463	9.32	ppb		96
7) Chloroethane	2.523	64	32186	11.88	ppb		95
8) Trichlorofluoromethane	2.816	101	74485	10.36	ppb		99
9) Diethyl ether	3.185	59	28015	8.76	ppb		75
10) 1,1-Dichloroethene	3.462	61	52926	9.64	ppb		94
11) Acetone	3.581	43	18838	9.47	ppb		81
12) Methyl iodide	3.643	142	31347	8.49	ppb		97
13) Carbon disulfide	3.713	76	123228	10.10	ppb		100
14) Methylene chloride	4.130	84	44620	9.77	ppb		99
15) MTBE (2-methoxy-2-meth...	4.487	73	107440	8.29	ppb		85
16) trans-1,2-Dichloroethene	4.479	61	59903	10.00	ppb		90
17) Acrylonitrile	4.487	53	22843	9.54	ppb		100
18) 1,1-Dichloroethane	5.074	63	77323	9.80	ppb		97
19) Methyl ethyl ketone	6.719	43	18965	9.06	ppb		65
20) 2,2-Dichloropropane	5.853	77	60768	9.32	ppb		98
21) cis-1,2-Dichloroethene	5.858	96	41613	9.64	ppb		97
22) Bromochloromethane	6.180	130	28522	9.65	ppb		99
23) Chloroform	6.340	83	81414	10.03	ppb		96
25) 1,1,1-Trichloroethane	6.536	97	70543	9.94	ppb		95
26) 1,1-Dichloropropene	6.763	75	59562	10.54	ppb		81
27) Carbon tetrachloride	6.742	117	63117	10.01	ppb		98
28) Benzene	7.036	78	179695	9.98	ppb		99
29) 1,2-Dichloroethane	7.131	62	61935	9.49	ppb		96
30) Trichloroethene	8.001	130	43408	9.56	ppb		89
31) 1,2-Dichloropropane	8.384	63	40488	9.79	ppb		93
33) Dibromomethane	8.511	174	29449	9.55	ppb	#	58
34) Bromodichloromethane	8.794	83	55749	9.40	ppb		96
35) cis-1,3-Dichloropropene	9.464	75	51431	8.44	ppb		82
36) Methyl isobutyl ketone	9.727	43	38573	8.76	ppb		91

37)	Toluene	9.960	91	185011	10.01 ppb		99
39)	trans-1,3-Dichloropropene	10.374	75	50212	8.46 ppb		82
40)	1,1,2-Trichloroethane	10.674	97	38382	9.38 ppb		90
41)	Tetrachloroethene	10.763	166	54791	9.68 ppb		91
42)	2-Hexanone	11.066	43	27671	8.39 ppb		87
43)	1,3-Dichloropropane	10.926	76	64720	9.58 ppb		98
44)	Dibromochloromethane	11.258	129	39161	8.95 ppb		99
45)	1,2-Dibromoethane	11.423	107	37430	9.49 ppb		99
46)	Chlorobenzene	12.249	112	122834	9.02 ppb		85
47)	1,1,1,2-Tetrachloroethane	12.420	131	43340	9.49 ppb		94
48)	Ethylbenzene	12.440	91	189753	9.90 ppb		94
49)	m+p-Xylene	13.317	91	135841	19.61 ppb		87
50)	o-Xylene	13.317	91	135668	9.80 ppb		92
51)	Styrene	13.357	104	114852	10.31 ppb		84
52)	Bromoform	13.636	173	26547	8.62 ppb		98
53)	Isopropylbenzene	13.969	105	161708	9.96 ppb		98
55)	Bromobenzene	14.466	156	51118	9.39 ppb	#	68
56)	n-Propylbenzene	14.701	91	242882	10.55 ppb		92
57)	1,3,5-Trimethylbenzene	15.699	105	167734	10.72 ppb		93
58)	2-Chlorotoluene	14.701	91	242878	10.56 ppb	#	32
59)	4-Chlorotoluene	15.049	91	178515	10.63 ppb	#	84
60)	tert-Butylbenzene	15.586	91	87401	10.31 ppb	#	78
61)	1,1,2,2-Tetrachloroethane	14.554	83	59547	9.71 ppb		91
62)	trans-1,4-Dichloro-2-b...	14.621	53	14896	8.46 ppb		94
63)	1,2,3-Trichloropropane	14.621	110	19903	9.50 ppb		95
64)	1,2,4-Trimethylbenzene	15.699	105	167734	10.72 ppb		96
65)	sec-Butylbenzene	15.988	105	210862	10.72 ppb		91
66)	4-Isopropyltoluene	16.287	119	193166	10.19 ppb	#	94
69)	1,3-Dichlorobenzene	16.344	146	114076	9.51 ppb		97
70)	1,4-Dichlorobenzene	16.344	146	114076	9.51 ppb		98
71)	1,2-Dichlorobenzene	16.971	146	106274	9.46 ppb		96
72)	n-butylbenzene	17.018	91	185183	10.40 ppb	#	91
73)	1,2-Dibromo-3-chloropr...	18.418	157	11015	8.61 ppb		89
74)	1,2,4-Trichlorobenzene	19.903	180	46071	8.39 ppb		93
75)	Hexachlorobutadiene	20.204	225	36331	10.40 ppb		96
76)	Naphthalene	20.366	128	106254	8.15 ppb		96
77)	1,2,3-Trichlorobenzene	20.776	180	48709	9.29 ppb		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SEP05 8260.M Wed Sep 06 09:07:54 2023

Quantitation Report (Not Reviewed)

Data Path : T:\Data2\Voc\HP5975_VOC2\2023Data\SEP\05\
Data File : 03101031.D
Acq On : 6 Sep 2023 12:47 am
Operator : BP
Sample : 10 PPB VOC CCV
Misc :
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Sep 06 09:11:50 2023
Quant Method : T:\Data2\Voc\HP5975_VOC2\2023Method\SEP05 8260.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Tue Sep 05 13:56:46 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	7.480	96	775982	20.00	ppb		0.00
38) Chlorobenzene-d5	12.203	117	773844	20.00	ppb		0.00
67) 1,4-Dichlorobenzene-d4	16.939	152	457216	20.00	ppb		0.00
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4	7.022	65	229210	20.48	ppb		0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 102.40%				
24) Dibromofluoromethane	6.558	111	207907	20.58	ppb		0.00
Spiked Amount 20.000			Recovery = 102.90%				
32) Toluene-d8	9.856	98	789181	20.48	ppb		0.00
Spiked Amount 20.000			Recovery = 102.40%				
54) Bromofluorobenzene	14.254	95	388290	20.17	ppb		0.00
Spiked Amount 20.000			Recovery = 100.85%				
68) 1,2-Dichlorobenzene-d4	16.939	152	457216	20.00	ppb		0.00
Spiked Amount 20.000			Recovery = 100.00%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.733	85	47962	10.47	ppb		99
4) Chloromethane	1.943	50	41633	11.67	ppb		96
5) Vinyl chloride	2.040	62	46511	11.58	ppb		98
6) Bromomethane	2.403	96	37123	10.19	ppb		99
7) Chloroethane	2.526	64	32800	11.82	ppb		98
8) Trichlorofluoromethane	2.816	101	84764	11.51	ppb		97
9) Diethyl ether	3.184	59	35615	10.88	ppb		80
10) 1,1-Dichloroethene	3.462	61	61645	10.97	ppb		94
11) Acetone	3.594	43	19612	9.66	ppb		77
12) Methyl iodide	3.643	142	36408	9.58	ppb		95
13) Carbon disulfide	3.713	76	138009	11.05	ppb		100
14) Methylene chloride	4.132	84	51708	11.08	ppb		97
15) MTBE (2-methoxy-2-meth...	4.488	73	129567	9.82	ppb		84
16) trans-1,2-Dichloroethene	4.480	61	68298	11.13	ppb		87
17) Acrylonitrile	4.488	53	27577	11.32	ppb		94
18) 1,1-Dichloroethane	5.075	63	87769	10.87	ppb		98
19) Methyl ethyl ketone	6.719	43	22279	10.42	ppb		66
20) 2,2-Dichloropropane	5.852	77	63676	9.54	ppb		98
21) cis-1,2-Dichloroethene	5.858	96	46877	10.61	ppb		99
22) Bromochloromethane	6.181	130	33524	11.08	ppb		100
23) Chloroform	6.341	83	92811	11.17	ppb		96
25) 1,1,1-Trichloroethane	6.536	97	78765	10.84	ppb		96
26) 1,1-Dichloropropene	6.763	75	67705	11.70	ppb		80
27) Carbon tetrachloride	6.742	117	70260	10.89	ppb		98
28) Benzene	7.036	78	202436	10.98	ppb		99
29) 1,2-Dichloroethane	7.132	62	73248	10.97	ppb		95
30) Trichloroethene	8.002	130	48909	10.52	ppb		90
31) 1,2-Dichloropropane	8.384	63	46542	10.99	ppb		95
33) Dibromomethane	8.511	174	35231	11.16	ppb	#	61
34) Bromodichloromethane	8.794	83	63408	10.48	ppb		94
35) cis-1,3-Dichloropropene	9.464	75	61738	9.81	ppb		83
36) Methyl isobutyl ketone	9.728	43	45849	10.00	ppb		89

37)	Toluene	9.960	91	209604	11.08 ppb		97
39)	trans-1,3-Dichloropropene	10.374	75	59437	9.72 ppb		83
40)	1,1,2-Trichloroethane	10.675	97	45602	10.87 ppb		88
41)	Tetrachloroethene	10.763	166	61925	10.67 ppb		90
42)	2-Hexanone	11.067	43	32895	9.73 ppb		87
43)	1,3-Dichloropropane	10.926	76	77230	11.15 ppb		99
44)	Dibromochloromethane	11.259	129	45792	10.22 ppb		98
45)	1,2-Dibromoethane	11.423	107	44281	10.95 ppb		98
46)	Chlorobenzene	12.249	112	143707	10.29 ppb		86
47)	1,1,1,2-Tetrachloroethane	12.421	131	49705	10.62 ppb		99
48)	Ethylbenzene	12.440	91	219173	11.16 ppb		93
49)	m+p-Xylene	13.318	91	159475	22.46 ppb		88
50)	o-Xylene	13.318	91	159422	11.23 ppb		92
51)	Styrene	13.357	104	136541	11.96 ppb		80
52)	Bromoform	13.637	173	30548	9.67 ppb		95
53)	Isopropylbenzene	13.969	105	188891	11.35 ppb		98
55)	Bromobenzene	14.466	156	60193	10.79 ppb	#	68
56)	n-Propylbenzene	14.701	91	277583	11.77 ppb	#	89
57)	1,3,5-Trimethylbenzene	15.699	105	192184	11.99 ppb		92
58)	2-Chlorotoluene	14.701	91	277583	11.77 ppb	#	32
59)	4-Chlorotoluene	15.049	91	204645	11.89 ppb	#	84
60)	tert-Butylbenzene	15.586	91	101100	11.63 ppb	#	73
61)	1,1,2,2-Tetrachloroethane	14.554	83	69393	11.04 ppb		94
62)	trans-1,4-Dichloro-2-b...	14.621	53	17040	9.44 ppb		95
63)	1,2,3-Trichloropropane	14.622	110	23541	10.96 ppb		94
64)	1,2,4-Trimethylbenzene	15.699	105	192184	11.99 ppb		94
65)	sec-Butylbenzene	15.988	105	239080	11.86 ppb		92
66)	4-Isopropyltoluene	16.288	119	218430	11.24 ppb	#	95
69)	1,3-Dichlorobenzene	16.344	146	130042	10.55 ppb		94
70)	1,4-Dichlorobenzene	16.344	146	130042	10.55 ppb		95
71)	1,2-Dichlorobenzene	16.972	146	121191	10.50 ppb		95
72)	n-butylbenzene	17.019	91	201738	11.03 ppb	#	92
73)	1,2-Dibromo-3-chloropr...	18.418	157	12656	9.63 ppb		90
74)	1,2,4-Trichlorobenzene	19.903	180	54726	9.69 ppb		95
75)	Hexachlorobutadiene	20.204	225	39248	10.93 ppb		98
76)	Naphthalene	20.366	128	131129	9.55 ppb		93
77)	1,2,3-Trichlorobenzene	20.777	180	57367	10.64 ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SEP05 8260.M Wed Sep 06 09:11:51 2023

Quantitation Report (Not Reviewed)

Data Path : T:\Data2\Voc\HP5975_VOC2\2023Data\SEP\05\
Data File : 03301033.D
Acq On : 6 Sep 2023 1:52 am
Operator : BP
Sample : MDI0025-05
Misc :
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Sep 06 09:12:25 2023
Quant Method : T:\Data2\Voc\HP5975_VOC2\2023Method\SEP05 8260.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Tue Sep 05 13:56:46 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.480	96	742985	20.00	ppb	0.00
38) Chlorobenzene-d5	12.203	117	700079	20.00	ppb	0.00
67) 1,4-Dichlorobenzene-d4	16.939	152	408983	20.00	ppb	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4	7.023	65	222242	20.74	ppb	0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 103.70%			
24) Dibromofluoromethane	6.558	111	199711	20.65	ppb	0.00
Spiked Amount 20.000			Recovery = 103.25%			
32) Toluene-d8	9.857	98	721400	19.55	ppb	0.00
Spiked Amount 20.000			Recovery = 97.75%			
54) Bromofluorobenzene	14.256	95	341368	19.60	ppb	0.00
Spiked Amount 20.000			Recovery = 98.00%			
68) 1,2-Dichlorobenzene-d4	16.939	152	408983	20.00	ppb	0.00
Spiked Amount 20.000			Recovery = 100.00%			
Target Compounds						Qvalue
15) MTBE (2-methoxy-2-meth...	4.488	73	10347	0.79	ppb	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SEP05 8260.M Wed Sep 06 09:12:26 2023

Quantitation Report (Not Reviewed)

Data Path : T:\Data2\Voc\HP5975_VOC2\2023Data\SEP\05\
Data File : 03401034.D
Acq On : 6 Sep 2023 2:24 am
Operator : BP
Sample : MDI0025-06
Misc :
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Sep 06 09:12:40 2023
Quant Method : T:\Data2\Voc\HP5975_VOC2\2023Method\SEP05 8260.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Tue Sep 05 13:56:46 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.481	96	720772	20.00	ppb	0.00
38) Chlorobenzene-d5	12.203	117	713352	20.00	ppb	0.00
67) 1,4-Dichlorobenzene-d4	16.939	152	401491	20.00	ppb	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4	7.023	65	218729	21.04	ppb	0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 105.20%			
24) Dibromofluoromethane	6.558	111	195403	20.83	ppb	0.00
Spiked Amount 20.000			Recovery = 104.15%			
32) Toluene-d8	9.857	98	697164	19.48	ppb	0.00
Spiked Amount 20.000			Recovery = 97.40%			
54) Bromofluorobenzene	14.256	95	330060	18.60	ppb	0.00
Spiked Amount 20.000			Recovery = 93.00%			
68) 1,2-Dichlorobenzene-d4	16.939	152	401491	20.00	ppb	0.00
Spiked Amount 20.000			Recovery = 100.00%			
Target Compounds						Qvalue
4) Chloromethane	1.937	50	714	Below Cal	#	23
11) Acetone	3.608	43	2569	0.82	ppb	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : T:\Data2\Voc\HP5975_VOC2\2023Data\SEP\05\
Data File : 03501035.D
Acq On : 6 Sep 2023 2:56 am
Operator : BP
Sample : MDI0025-07
Misc :
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Sep 06 09:13:03 2023
Quant Method : T:\Data2\Voc\HP5975_VOC2\2023Method\SEP05 8260.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Tue Sep 05 13:56:46 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.481	96	709092	20.00	ppb	0.00
38) Chlorobenzene-d5	12.203	117	681052	20.00	ppb	0.00
67) 1,4-Dichlorobenzene-d4	16.939	152	390554	20.00	ppb	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4	7.023	65	216154	21.14	ppb	0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 105.70%			
24) Dibromofluoromethane	6.558	111	192110	20.81	ppb	0.00
Spiked Amount 20.000			Recovery = 104.05%			
32) Toluene-d8	9.857	98	683041	19.40	ppb	0.00
Spiked Amount 20.000			Recovery = 97.00%			
54) Bromofluorobenzene	14.255	95	323044	19.07	ppb	0.00
Spiked Amount 20.000			Recovery = 95.35%			
68) 1,2-Dichlorobenzene-d4	16.939	152	390554	20.00	ppb	0.00
Spiked Amount 20.000			Recovery = 100.00%			
Target Compounds						Qvalue
4) Chloromethane	1.930	50	658	Below Cal		68
11) Acetone	3.594	43	5479	2.36	ppb	74

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : T:\Data2\Voc\HP5975_VOC2\2023Data\SEP\05\
Data File : 03601036.D
Acq On : 6 Sep 2023 3:29 am
Operator : BP
Sample : MDI0025-10
Misc :
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Sep 06 09:13:20 2023
Quant Method : T:\Data2\Voc\HP5975_VOC2\2023Method\SEP05 8260.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Tue Sep 05 13:56:46 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.480	96	682289	20.00	ppb	0.00
38) Chlorobenzene-d5	12.203	117	667241	20.00	ppb	0.00
67) 1,4-Dichlorobenzene-d4	16.939	152	382128	20.00	ppb	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4	7.022	65	208584	21.20	ppb	0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 106.00%			
24) Dibromofluoromethane	6.557	111	184885	20.82	ppb	0.00
Spiked Amount 20.000			Recovery = 104.10%			
32) Toluene-d8	9.857	98	661609	19.53	ppb	0.00
Spiked Amount 20.000			Recovery = 97.65%			
54) Bromofluorobenzene	14.256	95	311091	18.74	ppb	0.00
Spiked Amount 20.000			Recovery = 93.70%			
68) 1,2-Dichlorobenzene-d4	16.939	152	382128	20.00	ppb	0.00
Spiked Amount 20.000			Recovery = 100.00%			
Target Compounds						Qvalue
11) Acetone	3.601	43	4382	1.87	ppb	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : T:\Data2\Voc\HP5975_VOC2\2023Data\SEP\05\
Data File : 03701037.D
Acq On : 6 Sep 2023 4:01 am
Operator : BP
Sample : MDI0025-11
Misc :
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Sep 06 09:13:32 2023
Quant Method : T:\Data2\Voc\HP5975_VOC2\2023Method\SEP05 8260.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Tue Sep 05 13:56:46 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.481	96	685986	20.00	ppb	0.00
38) Chlorobenzene-d5	12.203	117	677642	20.00	ppb	0.00
67) 1,4-Dichlorobenzene-d4	16.939	152	382778	20.00	ppb	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4	7.023	65	211494	21.38	ppb	0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 106.90%			
24) Dibromofluoromethane	6.558	111	187188	20.96	ppb	0.00
Spiked Amount 20.000			Recovery = 104.80%			
32) Toluene-d8	9.857	98	663775	19.49	ppb	0.00
Spiked Amount 20.000			Recovery = 97.45%			
54) Bromofluorobenzene	14.255	95	311974	18.51	ppb	0.00
Spiked Amount 20.000			Recovery = 92.55%			
68) 1,2-Dichlorobenzene-d4	16.939	152	382778	20.00	ppb	0.00
Spiked Amount 20.000			Recovery = 100.00%			
Target Compounds						Qvalue
4) Chloromethane	1.937	50	613	Below Cal	#	61
11) Acetone	3.601	43	6586	3.07	ppb	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SEP05 8260.M Wed Sep 06 09:13:33 2023

Quantitation Report (Not Reviewed)

Data Path : T:\Data2\Voc\HP5975_VOC2\2023Data\SEP\05\
Data File : 03801038.D
Acq On : 6 Sep 2023 4:33 am
Operator : BP
Sample : MDH0734-01
Misc : 500X
ALS Vial : 38 Sample Multiplier: 1

Quant Time: Sep 06 09:13:45 2023
Quant Method : T:\Data2\Voc\HP5975_VOC2\2023Method\SEP05 8260.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Tue Sep 05 13:56:46 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.481	96	677485	20.00	ppb	0.00
38) Chlorobenzene-d5	12.203	117	657018	20.00	ppb	0.00
67) 1,4-Dichlorobenzene-d4	16.939	152	380099	20.00	ppb	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4	7.023	65	210543	21.55	ppb	0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 107.75%			
24) Dibromofluoromethane	6.558	111	185761	21.06	ppb	0.00
Spiked Amount 20.000			Recovery = 105.30%			
32) Toluene-d8	9.857	98	660732	19.64	ppb	0.00
Spiked Amount 20.000			Recovery = 98.20%			
54) Bromofluorobenzene	14.256	95	310949	19.03	ppb	0.00
Spiked Amount 20.000			Recovery = 95.15%			
68) 1,2-Dichlorobenzene-d4	16.939	152	380099	20.00	ppb	0.00
Spiked Amount 20.000			Recovery = 100.00%			
Target Compounds						Qvalue
4) Chloromethane	1.920	50	354	Below Cal	#	1
11) Acetone	3.580	43	14453	7.88	ppb	85
37) Toluene	9.960	91	14864	0.90	ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : T:\Data2\Voc\HP5975_VOC2\2023Data\SEP\05\
Data File : 03901039.D
Acq On : 6 Sep 2023 5:06 am
Operator : BP
Sample : MDH0734-01
Misc : 50X
ALS Vial : 39 Sample Multiplier: 1

Quant Time: Sep 06 09:13:59 2023
Quant Method : T:\Data2\Voc\HP5975_VOC2\2023Method\SEP05 8260.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Tue Sep 05 13:56:46 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.481	96	702319	20.00	ppb	0.00
38) Chlorobenzene-d5	12.203	117	707609	20.00	ppb	0.00
67) 1,4-Dichlorobenzene-d4	16.939	152	403068	20.00	ppb	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4	7.023	65	213288	21.06	ppb	0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 105.30%			
24) Dibromofluoromethane	6.557	111	191469	20.94	ppb	0.00
Spiked Amount 20.000			Recovery = 104.70%			
32) Toluene-d8	9.857	98	686522	19.69	ppb	0.00
Spiked Amount 20.000			Recovery = 98.45%			
54) Bromofluorobenzene	14.256	95	325455	18.49	ppb	0.00
Spiked Amount 20.000			Recovery = 92.45%			
68) 1,2-Dichlorobenzene-d4	16.939	152	403068	20.00	ppb	0.00
Spiked Amount 20.000			Recovery = 100.00%			
Target Compounds						Qvalue
4) Chloromethane	1.937	50	216	Below Cal	#	34
11) Acetone	3.573	43	142713	Below Cal		77
37) Toluene	9.961	91	245647	14.35	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : T:\Data2\Voc\HP5975_VOC2\2023Data\SEP\05\
Data File : 04101041.D
Acq On : 6 Sep 2023 6:10 am
Operator : BP
Sample : 10 PPB VOC CCV
Misc :
ALS Vial : 41 Sample Multiplier: 1

Quant Time: Sep 06 09:15:15 2023
Quant Method : T:\Data2\Voc\HP5975_VOC2\2023Method\SEP05 8260.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Tue Sep 05 13:56:46 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	7.480	96	706269	20.00	ppb		0.00
38) Chlorobenzene-d5	12.202	117	680553	20.00	ppb		0.00
67) 1,4-Dichlorobenzene-d4	16.938	152	431578	20.00	ppb		0.00
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4	7.021	65	214512	21.06	ppb		0.00
Spiked Amount 20.000	Range 85 - 115		Recovery = 105.30%				
24) Dibromofluoromethane	6.557	111	192897	20.98	ppb		0.00
Spiked Amount 20.000			Recovery = 104.90%				
32) Toluene-d8	9.856	98	728617	20.78	ppb		0.00
Spiked Amount 20.000			Recovery = 103.90%				
54) Bromofluorobenzene	14.254	95	363520	21.47	ppb		0.00
Spiked Amount 20.000			Recovery = 107.35%				
68) 1,2-Dichlorobenzene-d4	16.938	152	431578	20.00	ppb		0.00
Spiked Amount 20.000			Recovery = 100.00%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.729	85	48648	11.74	ppb		100
4) Chloromethane	1.937	50	42880	13.23	ppb		98
5) Vinyl chloride	2.037	62	47841	13.08	ppb		98
6) Bromomethane	2.400	96	37898	11.58	ppb		98
7) Chloroethane	2.526	64	35505	14.06	ppb		96
8) Trichlorofluoromethane	2.816	101	86564	12.92	ppb		100
9) Diethyl ether	3.184	59	32596	10.94	ppb		79
10) 1,1-Dichloroethene	3.462	61	60980	11.92	ppb		95
11) Acetone	3.574	43	18077	9.81	ppb		82
12) Methyl iodide	3.643	142	34006	9.81	ppb		94
13) Carbon disulfide	3.713	76	138217	12.16	ppb		100
14) Methylene chloride	4.130	84	50971	12.01	ppb		95
15) MTBE (2-methoxy-2-meth...	4.487	73	118434	9.86	ppb		85
16) trans-1,2-Dichloroethene	4.479	61	67939	12.17	ppb		88
17) Acrylonitrile	4.487	53	24991	11.27	ppb		99
18) 1,1-Dichloroethane	5.074	63	87104	11.85	ppb		98
19) Methyl ethyl ketone	6.719	43	21927	11.29	ppb		66
20) 2,2-Dichloropropane	5.852	77	61895	10.21	ppb		98
21) cis-1,2-Dichloroethene	5.858	96	45765	11.38	ppb		100
22) Bromochloromethane	6.180	130	32328	11.74	ppb		99
23) Chloroform	6.340	83	92897	12.28	ppb		96
25) 1,1,1-Trichloroethane	6.536	97	80158	12.12	ppb		96
26) 1,1-Dichloropropene	6.763	75	67780	12.87	ppb		82
27) Carbon tetrachloride	6.742	117	71948	12.25	ppb		100
28) Benzene	7.036	78	202131	12.05	ppb		99
29) 1,2-Dichloroethane	7.131	62	70016	11.52	ppb		94
30) Trichloroethene	8.002	130	48384	11.44	ppb		89
31) 1,2-Dichloropropane	8.384	63	45378	11.78	ppb		93
33) Dibromomethane	8.512	174	34104	11.87	ppb	#	52
34) Bromodichloromethane	8.794	83	62610	11.40	ppb		95
35) cis-1,3-Dichloropropene	9.464	75	58390	10.17	ppb		79
36) Methyl isobutyl ketone	9.727	43	42328	10.13	ppb		90

37)	Toluene	9.960	91	207876	12.07 ppb		100
39)	trans-1,3-Dichloropropene	10.374	75	56715	10.52 ppb		82
40)	1,1,2-Trichloroethane	10.675	97	44243	12.00 ppb		89
41)	Tetrachloroethene	10.763	166	61308	12.02 ppb		90
42)	2-Hexanone	11.067	43	29619	9.97 ppb		87
43)	1,3-Dichloropropane	10.926	76	73936	12.14 ppb		99
44)	Dibromochloromethane	11.258	129	44517	11.29 ppb		99
45)	1,2-Dibromoethane	11.423	107	42355	11.91 ppb		95
46)	Chlorobenzene	12.249	112	137226	11.18 ppb		86
47)	1,1,1,2-Tetrachloroethane	12.420	131	49914	12.12 ppb		98
48)	Ethylbenzene	12.440	91	217922	12.62 ppb		95
49)	m+p-Xylene	13.318	91	157534	25.22 ppb		86
50)	o-Xylene	13.317	91	157279	12.60 ppb		91
51)	Styrene	13.356	104	135962	13.54 ppb		82
52)	Bromoform	13.636	173	29125	10.49 ppb		96
53)	Isopropylbenzene	13.969	105	187534	12.81 ppb		100
55)	Bromobenzene	14.466	156	59107	12.04 ppb	#	65
56)	n-Propylbenzene	14.701	91	278412	13.42 ppb		92
57)	1,3,5-Trimethylbenzene	15.699	105	194368	13.78 ppb		93
58)	2-Chlorotoluene	14.701	91	278412	13.43 ppb	#	32
59)	4-Chlorotoluene	15.049	91	204981	13.54 ppb	#	84
60)	tert-Butylbenzene	15.586	91	100900	13.20 ppb	#	74
61)	1,1,2,2-Tetrachloroethane	14.554	83	67707	12.25 ppb		93
62)	trans-1,4-Dichloro-2-b...	14.621	53	16842	10.61 ppb		93
63)	1,2,3-Trichloropropane	14.621	110	22503	11.91 ppb		95
64)	1,2,4-Trimethylbenzene	15.699	105	194368	13.78 ppb		95
65)	sec-Butylbenzene	15.988	105	240128	13.54 ppb		93
66)	4-Isopropyltoluene	16.288	119	218679	12.80 ppb	#	96
69)	1,3-Dichlorobenzene	16.344	146	130431	11.21 ppb		96
70)	1,4-Dichlorobenzene	16.344	146	130431	11.21 ppb		96
71)	1,2-Dichlorobenzene	16.971	146	120785	11.09 ppb		92
72)	n-butylbenzene	17.018	91	204518	11.85 ppb	#	91
73)	1,2-Dibromo-3-chloropr...	18.417	157	12048	9.71 ppb		96
74)	1,2,4-Trichlorobenzene	19.903	180	51534	9.67 ppb		99
75)	Hexachlorobutadiene	20.203	225	40051	11.82 ppb		98
76)	Naphthalene	20.366	128	121588	9.41 ppb		95
77)	1,2,3-Trichlorobenzene	20.776	180	55318	10.87 ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

SEP05 8260.M Wed Sep 06 09:15:16 2023

==== EPA 8330 ====

<EXPLOSIVES EPA 8330>

File Name : T:\Data6\HPLC2\2023Q3\SEP\091423EXP\1000 ppb ICAL_5.lcd

Vial #	Sample Name	Sample ID	Sample Type	Method File	Data File	Level #	Report File
1	1000 ppb ICAL		1:Standard:(I)	T:\Data6\HPLC2\2023METHOD\50B_250mm09	1000 ppb ICAL_5.lcd	1	T:\Data6\HPLC2\REPORTS\8330.lcr
2	800 ppb ICAL		1:Standard:(R)	T:\Data6\HPLC2\2023METHOD\50B_250mm09	800 ppb ICAL_6.lcd	2	T:\Data6\HPLC2\REPORTS\8330.lcr
3	600 ppb ICAL		1:Standard:(R)	T:\Data6\HPLC2\2023METHOD\50B_250mm09	600 ppb ICAL_7.lcd	3	T:\Data6\HPLC2\REPORTS\8330.lcr
4	400 ppb ICAL		1:Standard:(R)	T:\Data6\HPLC2\2023METHOD\50B_250mm09	400 ppb ICAL_8.lcd	4	T:\Data6\HPLC2\REPORTS\8330.lcr
5	100 ppb ICAL		1:Standard:(R)	T:\Data6\HPLC2\2023METHOD\50B_250mm09	100 ppb ICAL_9.lcd	5	T:\Data6\HPLC2\REPORTS\8330.lcr
6	50 ppb ICAL		1:Standard:(R)	T:\Data6\HPLC2\2023METHOD\50B_250mm09	50 ppb ICAL_10.lcd	6	T:\Data6\HPLC2\REPORTS\8330.lcr
7	RB		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	RB_11.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
8	400 ICV		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	400 ICV_12.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
9	BDH0900-BLK1		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	BDH0900-BLK1_13.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
10	BDH0900-BS1		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	BDH0900-BS1_14.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
11	BDH0900-BSD1		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	BDH0900-BSD1_15.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
12	MDH0641-03		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	MDH0641-03_16.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
13	MDH0900-MRL1		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	MDH0900-MRL1_17.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
14	BDH0900-MRL2		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	BDH0900-MRL2_18.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
15	BDH0900-MRL3		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	BDH0900-MRL3_19.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
4	CCV 400 ppb		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	CCV 400 ppb_20.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
16	BDI0041-BLK1		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	BDI0041-BLK1_21.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
17	BDI0041-BS1		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	BDI0041-BS1_22.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
18	BDI0041-BSD1		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	BDI0041-BSD1_23.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
19	MDH0994-03		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	MDH0994-03_24.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
20	MDH0994-04		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	MDH0994-04_25.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
21	MDH0998-02		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	MDH0998-02_26.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
4	CCV 400 ppb		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	CCV 400 ppb_27.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
22	BDI0064-BLK1		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	BDI0064-BLK1_28.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
23	BDI0064-BS1		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	BDI0064-BS1_29.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
24	BDI0064-BSD1		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	BDI0064-BSD1_30.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
25	MDI0021-01		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	MDI0021-01_31.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
26	MDI0021-MS1		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	MDI0021-MS1_32.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
27	MDI0021-MSD1		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	MDI0021-MSD1_33.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
28	MDI0021-02		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	MDI0021-02_34.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
29	MDI0021-03		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	MDI0021-03_35.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
30	MDI0021-04		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	MDI0021-04_36.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
31	MDI0021-05		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	MDI0021-05_37.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
32	MDI0021-06		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	MDI0021-06_38.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
33	MDI0021-07		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	MDI0021-07_39.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
34	MDI0022-01		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	MDI0022-01_40.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
35	MDI0022-02		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	MDI0022-02_41.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
36	MDI0022-03		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	MDI0022-03_42.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
37	MDI0022-04		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	MDI0022-04_43.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
4	CCV 400 ppb		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	CCV 400 ppb_44.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr

==== EPA 8330 ====

<EXPLOSIVES EPA 8330>

File Name : T:\Data6\HPLC2\2023Q3\SEP\091423EXP\CCV 400 ppb_38.lcd

Vial #	Sample Name	Sample ID	Sample Type	Method File	Data File	Level #	Report File
38	BDI0064-BLK1		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	BDI0064-BLK1_7.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
39	BDI0064-BS1		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	BDI0064-BS1_8.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
40	BDI0064-BSD1		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	BDI0064-BSD1_9.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
41	MDI0024-01		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	MDI0024-01_10.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
42	MDI0024-01MS+2		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	MDI0024-01MS1_11.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
43	MDI0024-01MSD+2		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	MDI0024-01MSD1_12.lc	0	T:\Data6\HPLC2\REPORTS\8330.lcr
44	MDI0024-02		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	MDI0024-02_13.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
45	MDI0024-03		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	MDI0024-03_14.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
46	MDI0024-04		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	MDI0024-04_15.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
47	MDI0025-01		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	MDI0025-01_16.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
48	MDI0025-01MS 3		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	MDI0025-01MS_17.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
49	MDI0025-01MSD 3		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	MDI0025-01MSD_18.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
4	CCV 400 ppb		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	CCV 400 ppb_19.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
50	MDI0025-02		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	MDI0025-02_20.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
51	MDI0025-03		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	MDI0025-03_21.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
52	MDI0025-04		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	MDI0025-04_22.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
53	MDI0025-05		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	MDI0025-05_23.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
54	MDI0025-06		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	MDI0025-06_24.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
55	MDI0025-07		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	MDI0025-07_25.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
56	MDI0025-08		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	MDI0025-08_26.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
57	MDI0025-09		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	MDI0025-09_27.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
4	CCV 400 ppb		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	CCV 400 ppb_28.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
58	BDI0389-BLK1		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	BDI0389-BLK1_29.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
59	BDI0389-BS1		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	BDI0389-BS1_30.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
60	BDI0389-BSD1		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	BDI0389-BSD1_31.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
61	MDI0255-01		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	MDI0255-01_32.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
62	MDI0255-02		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	MDI0255-02_33.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
63	MDI0255-03		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	MDI0255-03_34.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
64	MDI0255-04		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	MDI0255-04_35.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
65	MDI0255-05		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	MDI0255-05_36.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
66	MDI0255-06		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	MDI0255-06_37.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
4	CCV 400 ppb		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	CCV 400 ppb_38.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
67	BDI0064-BLK2		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	BDI0064-BLK2_39.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
68	BDI0064-BS2		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	BDI0064-BS2_40.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
69	BDI0064-BSD2		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	BDI0064-BSD2_41.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
70	MDI0025-10		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	MDI0025-10_42.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
71	MDI0025-11		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	MDI0025-11_43.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
72	MDI0036-01		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	MDI0036-01_44.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
73	MDI0036-01MS		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	MDI0036-01MS_45.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
74	MSI0036-01MSD		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	MSI0036-01MSD_46.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
75	MDI0036-02		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	MDI0036-02_47.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
76	MDI0036-03		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	MDI0036-03_48.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
77	MDI0036-05		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	MDI0036-05_49.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr
4	CCV 400 ppb		0:Unknown	T:\Data6\HPLC2\2023METHOD\50B_250mm09	CCV 400 ppb_50.lcd	0	T:\Data6\HPLC2\REPORTS\8330.lcr

Anatek Labs, Inc
1282 Alturas Drive
Moscow, ID 83843

Calibration Standard Preparation Form

Method: EPA 8330

Standard	Number	Expiration	Concentration (ppm)
1,2-Dinitrobenzene	2100839	11/2022	1000

Initial Calibration Standard Mix 100 ppm

Standard	Source Std Number	Expiration	Concentration (ppm)
EPA 8330 Mix 1	2203314	10/2023	100
EPA 8330 Mix 2	2203315	10/2023	100
EPA 8330 ICV Mix 1	2100837	4/2023	100
EPA 8330 ICV Mix 2	2100838	4/2022	100

Dilution Template Calibration

Desired Concentration (ppb)	Stock Concentration (ppm)	uL Standard Added	uL Surrogate Standard Added	Final Volume *(mL)
1000	100	20	2	2.00
800	100	16	2	2.00
600	100	12	2	2.00
400	100	8	2	2.00
100	100	2	2	2.00
50	100	1	2	2.00
RB	0	0	2	2.00
400 ICV	100	8	2	2.00

*Add 1 mL ACN to autosampler vial, then add surrogate standard, cal standard, and dilute to final volume of 2 mL with DI

✓ ICAL Standards
✓ ICV
✓ CCV

Analyst Initials: MDL Date of Preparation: 9/14/23

NON DW SV EXTRACTION LOG DATE 9/1/23 ANALYST MER

Method: 8330B
Solvent: Acetonitrile
Instrument: HPLC
Ext. Method: RDX SPE

Surrogate(s)	Solution #	Concentration (ppm)
1,2-Dinitrobenzene	2204221	1000
Matrix Spiking Info (MS/MSD)	**Solution #**	**Concentration (ppm)**
EPA 8330 Mix #1	2203314	100
EPA 8330 Mix #2	2203315	100

Sample #	Amount Ext. (g/mL)	Matrix	$ (µl)	MS1 (µl)	MS2 (µl)	FV (ml)
BDI0041-BLK1	1000	W	10			10
BDI0041-BS1	1000	W	10	50	50	10
BDI0041-BSD1	1000	W	10	50	50	10
MDH0994-03	1000	W	10			10
MDH0994-04	1000	W	10			10
MDH0998-02	1000	W	10			10

Reagent/Solution Desc.	Acetonitrile	RDX SPE	MeOH					
Reagent/Solution #	2204321	373154	2300557					

Comments: _____

NON DW SV EXTRACTION LOG DATE 8/23/23 ANALYST MQR

Method: 8330B
Solvent: Acetonitrile
Instrument: HPLC
Ext. Method: RDX SPE

Surrogate(s)	Solution #	Concentration (ppm)
1,2-Dinitrobenzene	2204221	1000
Matrix Spiking Info (MS/MSD)	**Solution #**	**Concentration (ppm)**
EPA 8330 Mix #1	2203314	100
EPA 8330 Mix #2	2203315	100

Sample #	Amount Ext. (g/mL)	Matrix	S (µl)	MS1 (µl)	MS2 (µl)	FV (ml)
BDH0900-BLK1	1000	W	10			10
BDH0900-BS1	1000	W	10	50	50	10
BDH0900-BSD1	1000	W	10	50	50	10
MDH0641-03	1000	W	10			10
BDH0900-MRL1						
-MRL2						
-MRL3						

Reagent/Solution Desc.	Acetonitrile	RDX SPE	MeOH					
Reagent/Solution #	2204321	373154	2300557					

Comments: _____

NON DW SV EXTRACTION LOG DATE 9/5/23 ANALYST MJK

Method: 8330B
Solvent: Acetonitrile
Instrument: HPLC
Ext. Method: RDX SPE

Surrogate(s)	Solution #	Concentration (ppm)
1,2-Dinitrobenzene	2204221	1000
Matrix Spiking Info (MS/MSD)	**Solution #**	**Concentration (ppm)**
EPA 8330 Mix #1	2203314	100
EPA 8330 Mix #2	2203315	100

Sample #	Amount Ext. (g/mL)	Matrix	S (µl)	MS1 (µl)	MS2 (µl)	FV (ml)
BDI0064-BLK1	1000	W	10			10
BDI0064-BS1	1000	W	10	50	50	10
BDI0064-BSD1	1000	W	10	50	50	10
MDI0021-01	1000	W	10			10
MDI0021-01MS	1000	W	10	50	50	10
MDI0021-01MSD	1000	W	10	50	50	10
MDI0021-02	1000	W	10			10
MDI0021-03	1000	W	10			10
MDI0021-04	1000	W	10			10
MDI0021-05	1000	W	10			10
MDI0021-06	1000	W	10			10
MDI0021-07	1000	W	10			10
MDI0022-01	1000	W	10			10
MDI0022-02	1000	W	10			10
MDI0022-03	1000	W	10			10
MDI0022-04	1000	W	10			10

Reagent/Solution Desc.	Acetonitrile	RDX SPE	MeOH					
Reagent/Solution #	220432	373154	2300557					

Comments: _____

NON DW SV EXTRACTION LOG DATE 9/5/23 ANALYST MSK

Method: 8330B
Solvent: Acetonitrile
Instrument: HPLC
Ext. Method: RDX SPE

Surrogate(s)	Solution #	Concentration (ppm)
1,2-Dinitrobenzene	2204221	1000
Matrix Spiking Info (MS/MSD)	**Solution #**	**Concentration (ppm)**
EPA 8330 Mix #1	2203314	100
EPA 8330 Mix #2	2203315	100

Sample #	Amount Ext. (g/mL)	Matrix	S (µl)	MS1 (µl)	MS2 (µl)	FV (ml)
BDI0064-BLK1	1000	W	10			10
BDI0064-BS1	1000	W	10	50	50	10
BDI0064-BSD1	1000	W	10	50	50	10
MDI0024-01	1000	W	10			10
MDI0024-01MS	1000	W	10	50	50	10
MDI0024-01MSD	1000	W	10	50	50	10
MDI0024-02	1000	W	10			10
MDI0024-03	1000	W	10			10
MDI0024-04	1000	W	10			10
MDI0025-01	1000	W	10			10
MDI0025-01MS	1000	W	10	50	50	10
MDI0025-01MSD	1000	W	10	50	50	10
MDI0025-02	1000	W	10			10
MDI0025-03	1000	W	10			10
MDI0025-04	1000	W	10			10
MDI0025-05	1000	W	10			10
MDI0025-06	1000	W	10			10
MDI0025-07	1000	W	10			10
MDI0025-08	1000	W	10			10
MDI0025-09	1000	W	10			10

Reagent/Solution Desc.	Acetonitrile	RDX SPE	MeOH				
Reagent/Solution #	2204321	373154	2300557				

Comments: _____

NON DW SV EXTRACTION LOG DATE 9/5/23 ANALYST MGL

Method: 8330B
Solvent: Acetonitrile
Instrument: HPLC
Ext. Method: RDX SPE

Surrogate(s)	Solution #	Concentration (ppm)
1,2-Dinitrobenzene	2204221	1000
Matrix Spiking Info (MS/MSD)	**Solution #**	**Concentration (ppm)**
EPA 8330 Mix #1	2203314	100
EPA 8330 Mix #2	2203315	100

Sample #	Amount Ext. (g/mL)	Matrix	S (µl)	MS1 (µl)	MS2 (µl)	FV (ml)
BDI0064-BLK2 3	1000	W	10			10
BDI0389-BS2 3	1000	W	10	50	50	10
BDI0389-BSD2 3	1000	W	10	50	50	10
MDI0025-10	1000	W	10			10
MDI0025-11	1000	W	10			10
MDI0036-01	1000	W	10			10
MDI0036-01MS 4	1000	W	10	50	50	10
MDI0036-01MSD 4	1000	W	10	50	50	10
MDI0036-02	1000	W	10			10
MDI0036-03	1000	W	10			10
MDI0036-05	1000	W	10			10

Reagent/Solution Desc.	Acetonitrile	RDX SPE	MeOH					
Reagent/Solution #	2204321	373154	230557					

Comments: _____

NON DW SV EXTRACTION LOG DATE 9/13/23 ANALYST MSK

Method: 8330B
Solvent: Acetonitrile
Instrument: HPLC
Ext. Method: RDX SPE

Surrogate(s)	Solution #	Concentration (ppm)
1,2-Dinitrobenzene	2204221	1000
Matrix Spiking Info (MS/MSD)	**Solution #**	**Concentration (ppm)**
EPA 8330 Mix #1	2203314	100
EPA 8330 Mix #2	2203315	100

Sample #	Amount Ext. (g/mL)	Matrix	S (µl)	MS1 (µl)	MS2 (µl)	FV (ml)
BDI0389-BLK1	1000	W	10			10
BDI0389-BS1	1000	W	10	50	50	10
BDI0389-BSD1	1000	W	10	50	50	10
MDI0255-01	1000	W	10			10
MDI0255-02	1000	W	10			10
MDI0255-03	1000	W	10			10
MDI0255-04	1000	W	10			10
MDI0255-05	1000	W	10			10
MDI0255-06	1000	W	10			10

Reagent/Solution Desc.	Acetonitrile	RDX SPE	MeOH					
Reagent/Solution #	220432	373154	230537					

Comments: _____

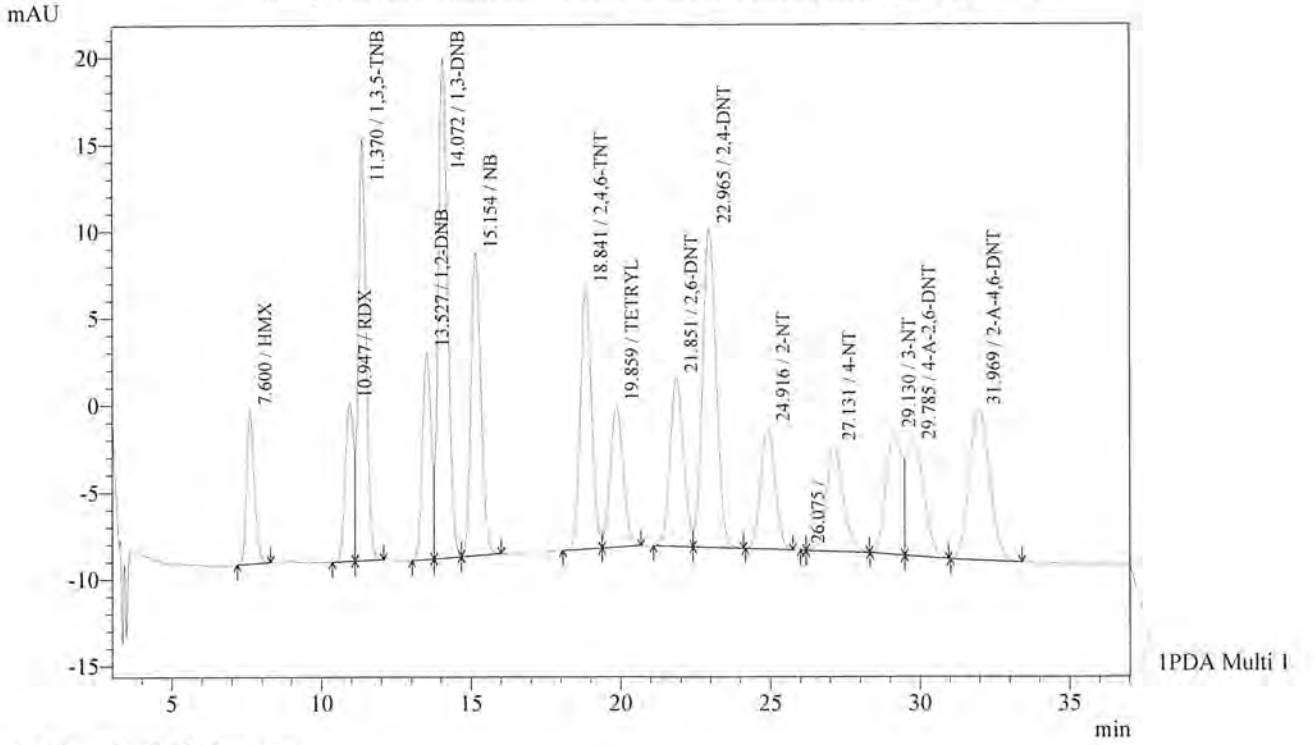
Sample Information

Acquired by	: Admin
Sample Name	: 1000 ppb ICAL
Sample ID	:
Vail#	: 1
Injection Volume	: 100 uL
Data Filename	: 1000 ppb ICAL_5.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXPDR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/14/2023 11:47:33 AM
Data Processed	: 9/18/2023 1:06:01 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

1000 ppb ICAL T:\Data6\HPLC2\2023Q3\SEP\091423EXP\1000 ppb ICAL_5.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.600	160446	1000.000	ppb	
RDX	10.947	179835	1000.000	ppb	
1,3,5-TNB	11.370	443036	1000.000	ppb	V
1,2-DNB	13.527	245873	1000.000	ppb	
1,3-DNB	14.072	627469	1000.000	ppb	V
NB	15.154	402208	1000.000	ppb	V
2,4,6-TNT	18.841	391029	1000.000	ppb	V
TETRYL	19.859	241017	1000.000	ppb	V
2,6-DNT	21.851	304160	1000.000	ppb	
2,4-DNT	22.965	584507	1000.000	ppb	V
2-NT	24.916	232475	1000.000	ppb	
4-NT	27.131	236767	1000.000	ppb	V
4-A-2,6-DNT	29.785	268989	1000.000	ppb	V
3-NT	29.130	263723	1000.000	ppb	
2-A-4,6-DNT	31.969	413818	1000.000	ppb	

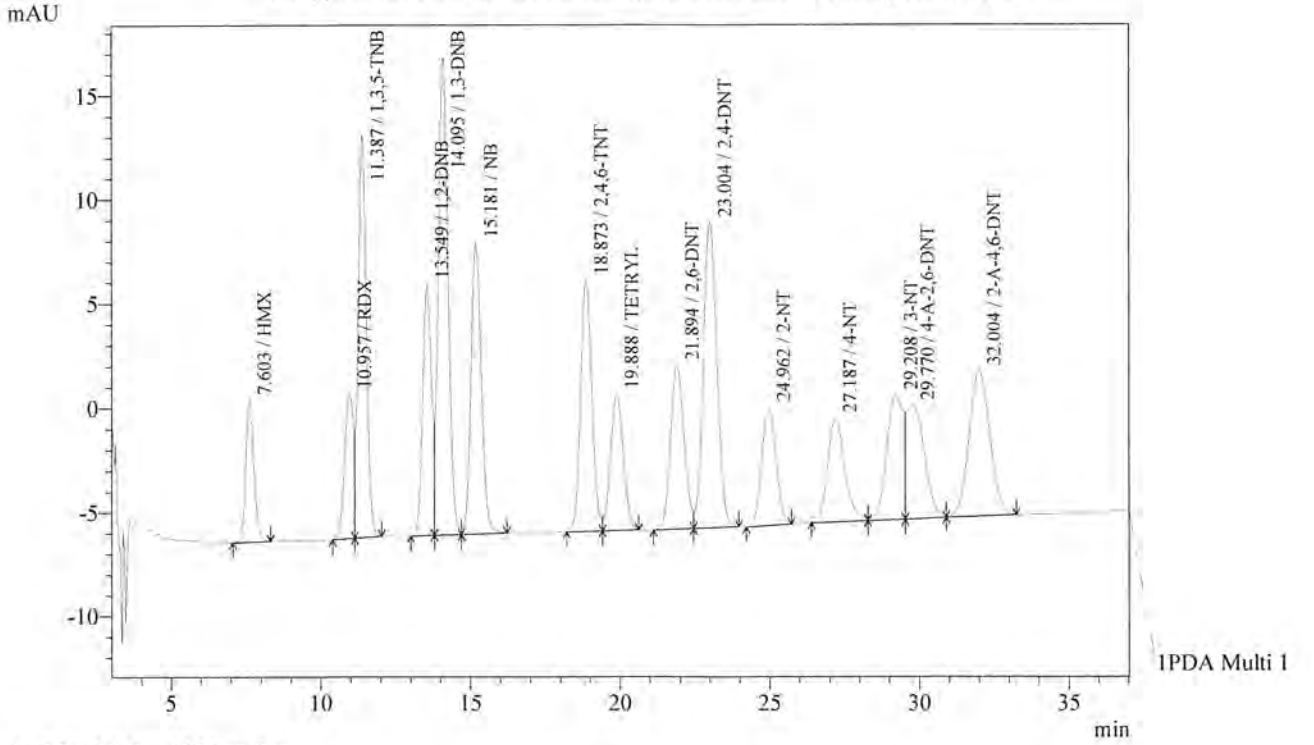
Sample Information

Acquired by	: Admin
Sample Name	: 800 ppb ICAL
Sample ID	:
Vail#	: 2
Injection Volume	: 100 uL
Data Filename	: 800 ppb ICAL_6.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXPDR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/14/2023 12:25:16 PM
Data Processed	: 9/18/2023 1:06:24 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

800 ppb ICAL T:\Data6\HPLC2\2023Q3\SEP\091423EXP\800 ppb ICAL_6.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.603	131037	810.104	ppb	
RDX	10.957	145397	805.164	ppb	V
1,3,5-TNB	11.387	362733	811.326	ppb	V
1,2-DNB	13.549	259878	1027.691	ppb	
1,3-DNB	14.095	517327	814.743	ppb	V
NB	15.181	333973	818.235	ppb	V
2,4,6-TNT	18.873	316403	805.557	ppb	
TETRYL	19.888	194877	805.198	ppb	V
2,6-DNT	21.894	247187	807.689	ppb	
2,4-DNT	23.004	471965	804.531	ppb	V
2-NT	24.962	190104	810.725	ppb	
4-NT	27.187	202207	832.101	ppb	V
4-A-2,6-DNT	29.770	228984	830.503	ppb	V
3-NT	29.208	229989	842.461	ppb	V
2-A-4,6-DNT	32.004	344027	818.828	ppb	V

Sample Information

Acquired by	: Admin
Sample Name	: 600 ppb ICAL
Sample ID	:
Vail#	: 3
Injection Volume	: 100 uL
Data Filename	: 600 ppb ICAL_7.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXPDR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/14/2023 1:02:57 PM
Data Processed	: 9/18/2023 1:06:46 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

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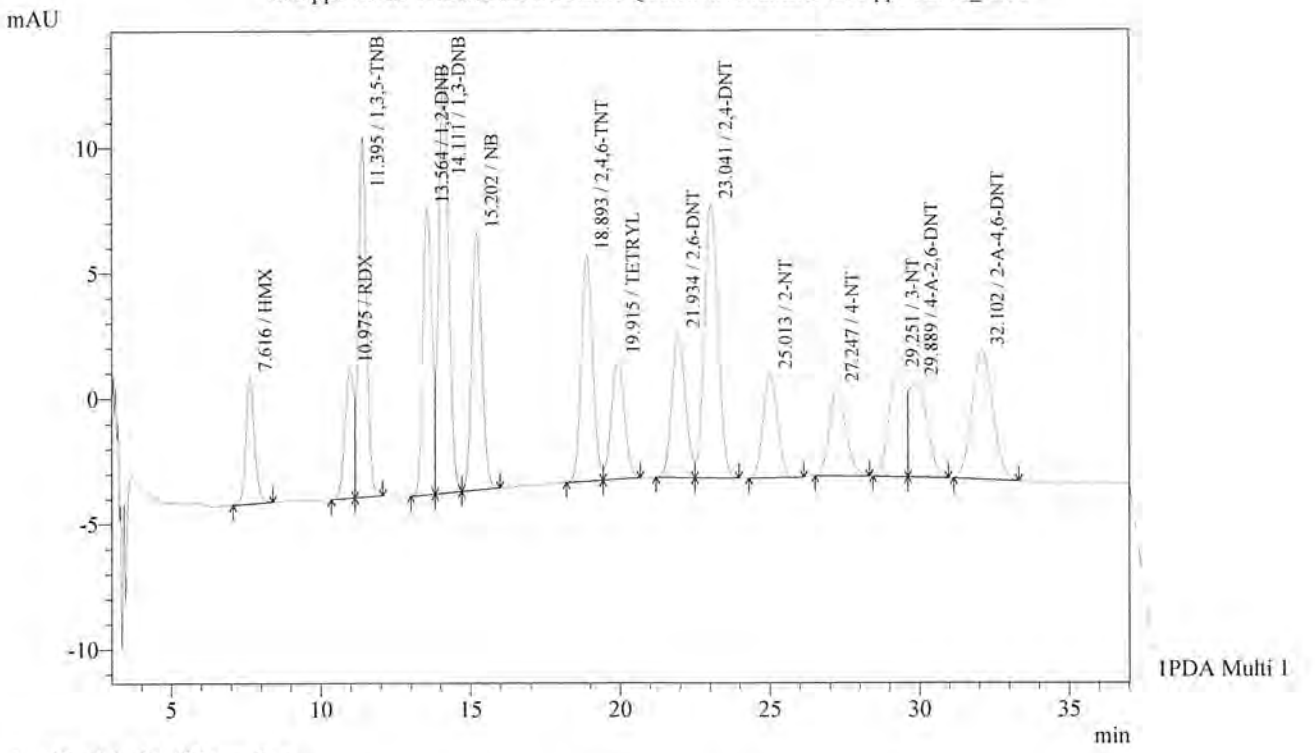


1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.616	101140	620.569	ppb	V
RDX	10.975	108606	601.171	ppb	
1,3,5-TNB	11.395	270551	604.210	ppb	V
1,2-DNB	13.564	247559	985.886	ppb	
1,3-DNB	14.111	387723	608.687	ppb	V
NB	15.202	242885	595.951	ppb	V
2,4,6-TNT	18.893	239580	608.148	ppb	V
TETRYL	19.915	144522	597.653	ppb	V
2,6-DNT	21.934	182673	597.445	ppb	
2,4-DNT	23.041	353343	601.904	ppb	V
2-NT	25.013	136342	584.702	ppb	S
4-NT	27.247	138313	574.486	ppb	
4-A-2,6-DNT	29.889	158355	578.796	ppb	V
3-NT	29.251	161720	593.743	ppb	
2-A-4,6-DNT	32.102	250948	597.773	ppb	

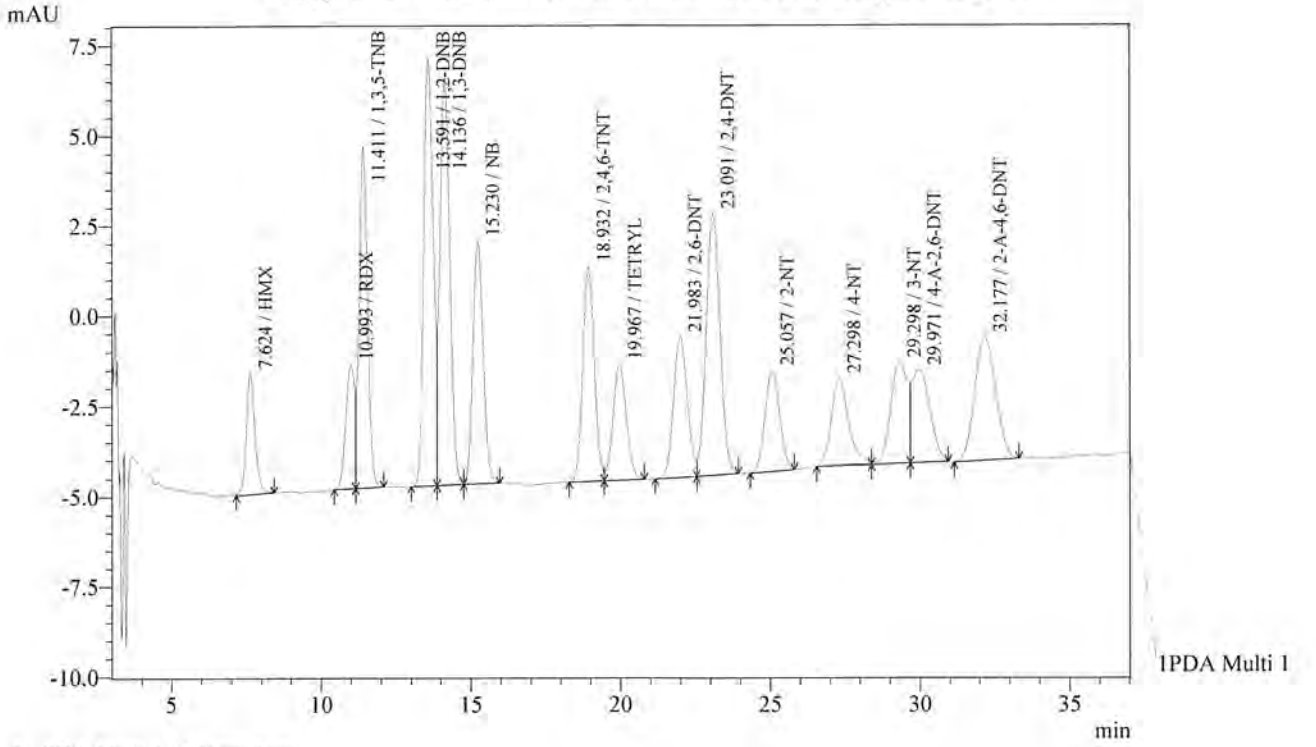
Sample Information

Acquired by	: Admin
Sample Name	: 400 ppb ICAL
Sample ID	:
Vail#	: 4
Injection Volume	: 100 uL
Data Filename	: 400 ppb ICAL_8.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXPDR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/14/2023 1:40:38 PM
Data Processed	: 9/18/2023 1:07:08 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

400 ppb ICAL T:\Data6\HPLC2\2023Q3\SEP\091423EXP\400 ppb ICAL_8.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.624	67078	410.694	ppb	SV
RDX	10.993	70690	391.924	ppb	
1,3,5-TNB	11.411	181499	404.933	ppb	V
1,2-DNB	13.591	263893	1037.720	ppb	
1,3-DNB	14.136	256700	402.771	ppb	V
NB	15.230	159931	392.964	ppb	SV
2,4,6-TNT	18.932	157055	398.765	ppb	
TETRYL	19.967	98529	406.893	ppb	SV
2,6-DNT	21.983	124689	407.215	ppb	
2,4-DNT	23.091	235815	401.574	ppb	V
2-NT	25.057	94875	406.354	ppb	
4-NT	27.298	97689	405.320	ppb	
4-A-2,6-DNT	29.971	107741	394.251	ppb	V
3-NT	29.298	110950	406.792	ppb	V
2-A-4,6-DNT	32.177	168669	401.647	ppb	

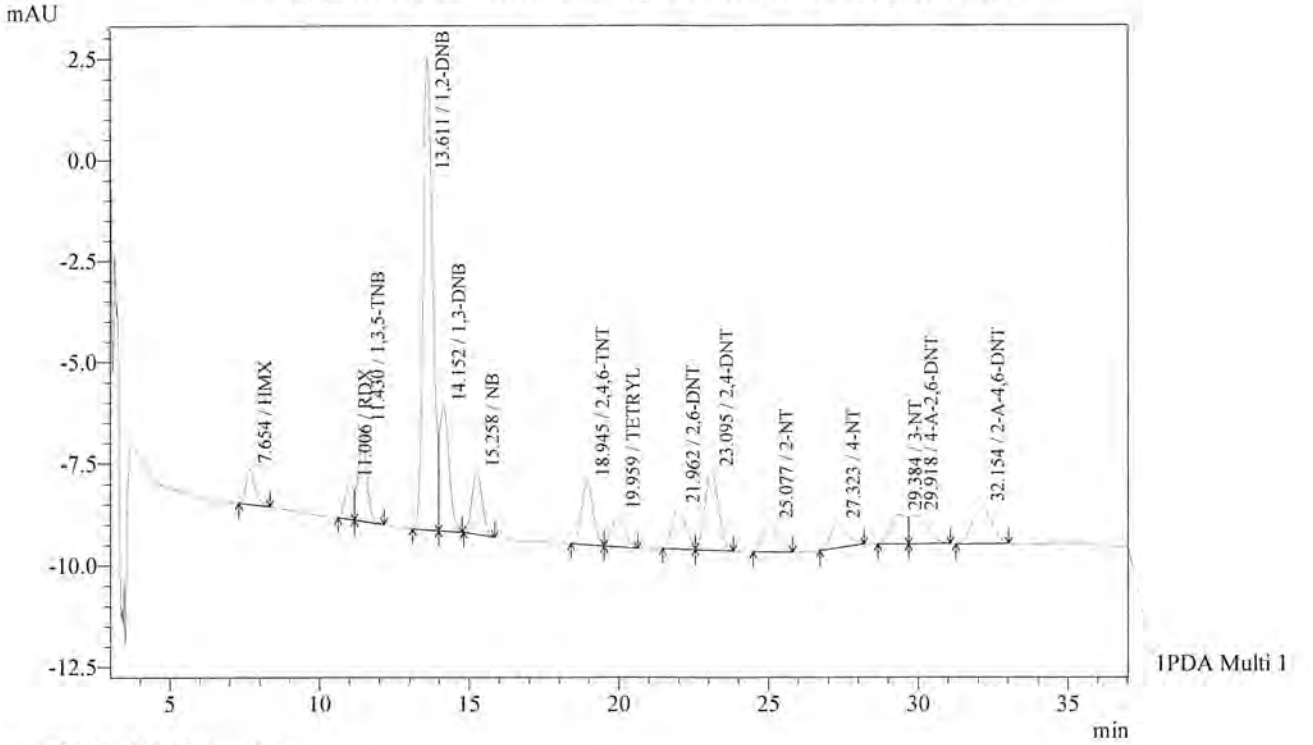
Sample Information

Acquired by	: Admin
Sample Name	: 100 ppb ICAL
Sample ID	:
Vail#	: 5
Injection Volume	: 100 uL
Data Filename	: 100 ppb ICAL_9.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXPDR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/14/2023 2:18:17 PM
Data Processed	: 9/18/2023 1:07:30 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

100 ppb ICAL T:\Data6\HPLC2\2023Q3\SEP\091423EXP\100 ppb ICAL_9.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.654	18596	113.781	ppb	
RDX	11.006	17774	98.552	ppb	
1,3,5-TNB	11.430	46626	104.005	ppb	V
1,2-DNB	13.611	268467	1044.073	ppb	
1,3-DNB	14.152	65348	102.522	ppb	V
NB	15.258	35787	87.980	ppb	
2,4,6-TNT	18.945	41726	105.915	ppb	
TETRYL	19.959	24626	101.691	ppb	V
2,6-DNT	21.962	32666	106.649	ppb	V
2,4-DNT	23.095	62436	106.293	ppb	V
2-NT	25.077	22804	97.682	ppb	
4-NT	27.323	23460	97.349	ppb	V
4-A-2,6-DNT	29.918	28837	105.496	ppb	V
3-NT	29.384	28178	103.296	ppb	
2-A-4,6-DNT	32.154	43065	102.538	ppb	

Sample Information

Acquired by	: Admin
Sample Name	: 50 ppb ICAL
Sample ID	:
Vail#	: 6
Injection Volume	: 100 uL
Data Filename	: 50 ppb ICAL_10.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXPDR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/14/2023 2:55:56 PM
Data Processed	: 9/18/2023 1:07:51 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

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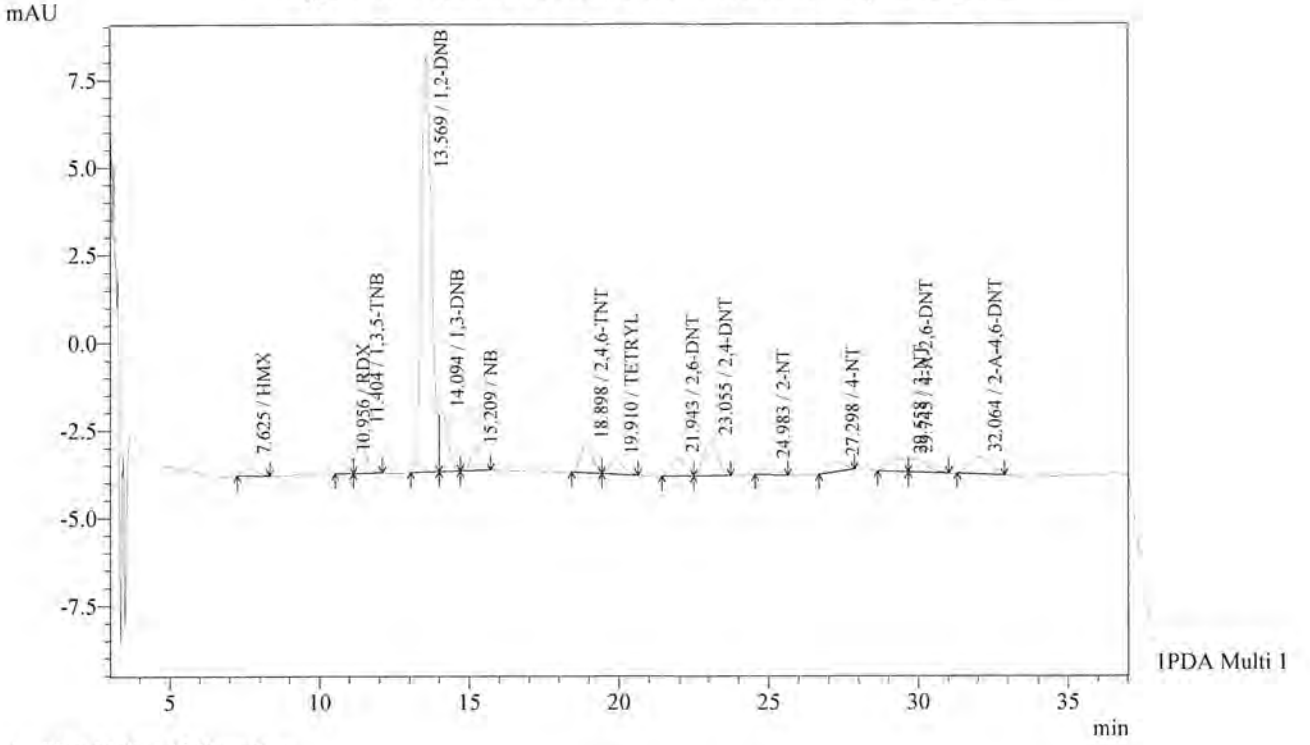


1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.625	10590	64.776	ppb	S
RDX	10.956	9879	54.769	ppb	
1,3,5-TNB	11.404	25159	56.113	ppb	SV
1,2-DNB	13.569	278809	1069.271	ppb	
1,3-DNB	14.094	31947	50.120	ppb	V
NB	15.209	15562	38.269	ppb	V
2,4,6-TNT	18.898	21209	53.830	ppb	
TETRYL	19.910	13189	54.456	ppb	V
2,6-DNT	21.943	16031	52.337	ppb	
2,4-DNT	23.055	32587	55.469	ppb	V
2-NT	24.983	10580	45.327	ppb	
4-NT	27.298	9879	41.003	ppb	
4-A-2,6-DNT	29.745	14629	53.511	ppb	V
3-NT	29.558	14468	53.033	ppb	
2-A-4,6-DNT	32.064	22841	54.378	ppb	

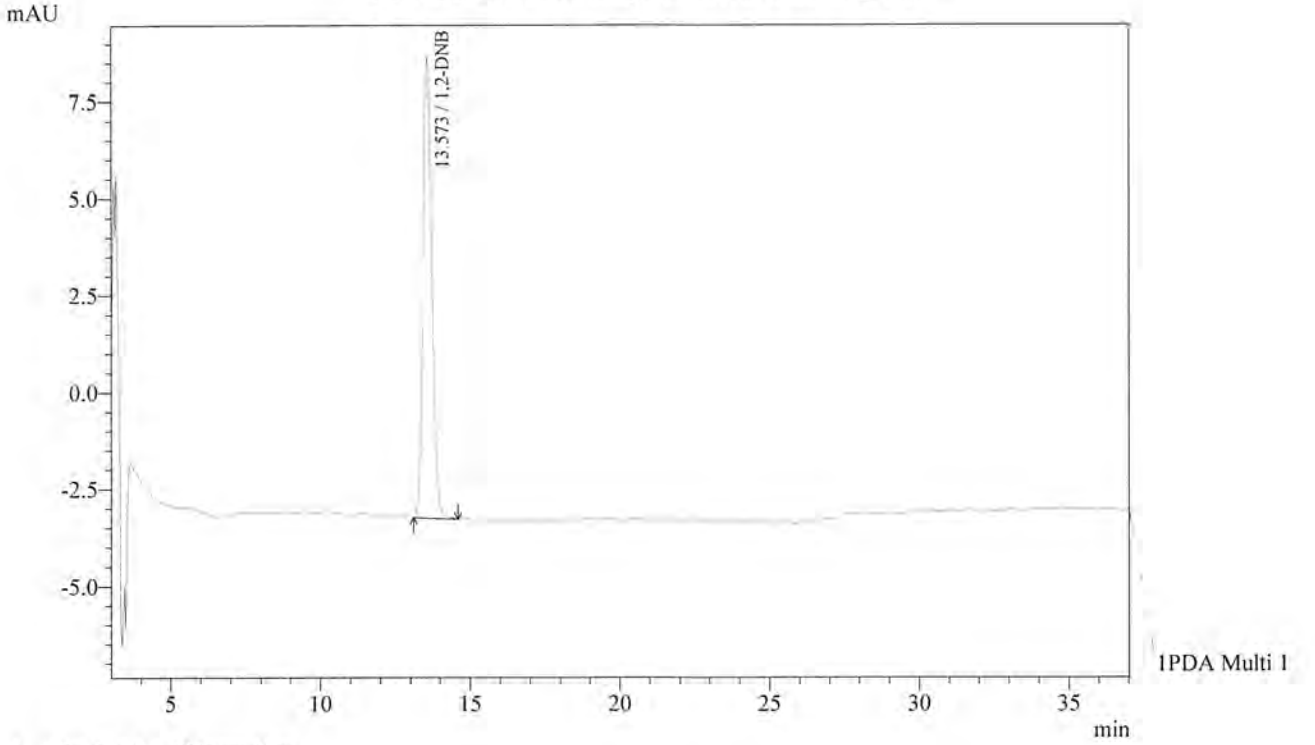
Sample Information

Acquired by	: Admin
Sample Name	: RB
Sample ID	:
Vail#	: 7
Injection Volume	: 100 uL
Data Filename	: RB_11.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXPDR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/14/2023 3:33:36 PM
Data Processed	: 9/18/2023 1:08:13 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

RB T:\Data6\HPLC2\2023Q3\SEP\091423EXP\RB_11.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	0.000	0	0.000	ppb	V
RDX	0.000	0	0.000	ppb	V
1,3,5-TNB	0.000	0	0.000	ppb	V
1,2-DNB	13.573	251391	964.121	ppb	S
1,3-DNB	0.000	0	0.000	ppb	V
NB	0.000	0	0.000	ppb	V
2,4,6-TNT	0.000	0	0.000	ppb	V
TETRYL	0.000	0	0.000	ppb	V
2,6-DNT	0.000	0	0.000	ppb	V
2,4-DNT	0.000	0	0.000	ppb	V
2-NT	0.000	0	0.000	ppb	V
4-NT	0.000	0	0.000	ppb	V
4-A-2,6-DNT	0.000	0	0.000	ppb	V
3-NT	0.000	0	0.000	ppb	V
2-A-4,6-DNT	0.000	0	0.000	ppb	V

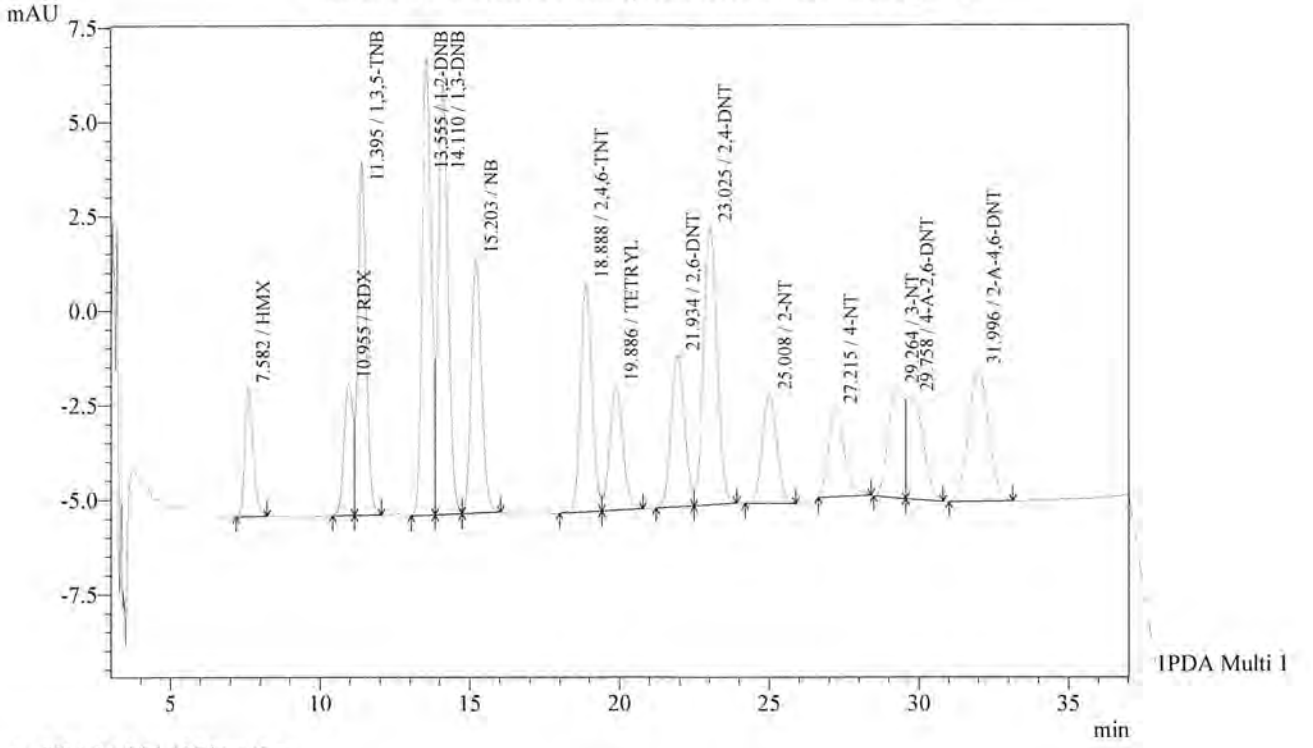
Sample Information

Acquired by	: Admin
Sample Name	: 400 ICV
Sample ID	:
Vail#	: 8
Injection Volume	: 100 uL
Data Filename	: 400 ICV_12.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXPDR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/14/2023 4:11:14 PM
Data Processed	: 9/18/2023 1:08:35 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

400 ICV T:\Data6\HPLC2\2023Q3\SEP\091423EXP\400 ICV_12.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.582	65117	398.297	ppb	
RDX	10.955	73049	404.986	ppb	
1,3,5-TNB	11.395	179215	399.707	ppb	V
1,2-DNB	13.555	265316	1017.525	ppb	
1,3-DNB	14.110	260588	408.822	ppb	V
NB	15.203	161674	397.576	ppb	V
2,4,6-TNT	18.888	159244	404.178	ppb	
TETRYL	19.886	98818	408.014	ppb	SV
2,6-DNT	21.934	125416	409.443	ppb	
2,4-DNT	23.025	234801	399.679	ppb	V
2-NT	25.008	96996	415.529	ppb	
4-NT	27.215	86889	360.632	ppb	
4-A-2,6-DNT	29.758	103731	379.452	ppb	V
3-NT	29.264	106906	391.879	ppb	
2-A-4,6-DNT	31.996	165956	395.101	ppb	

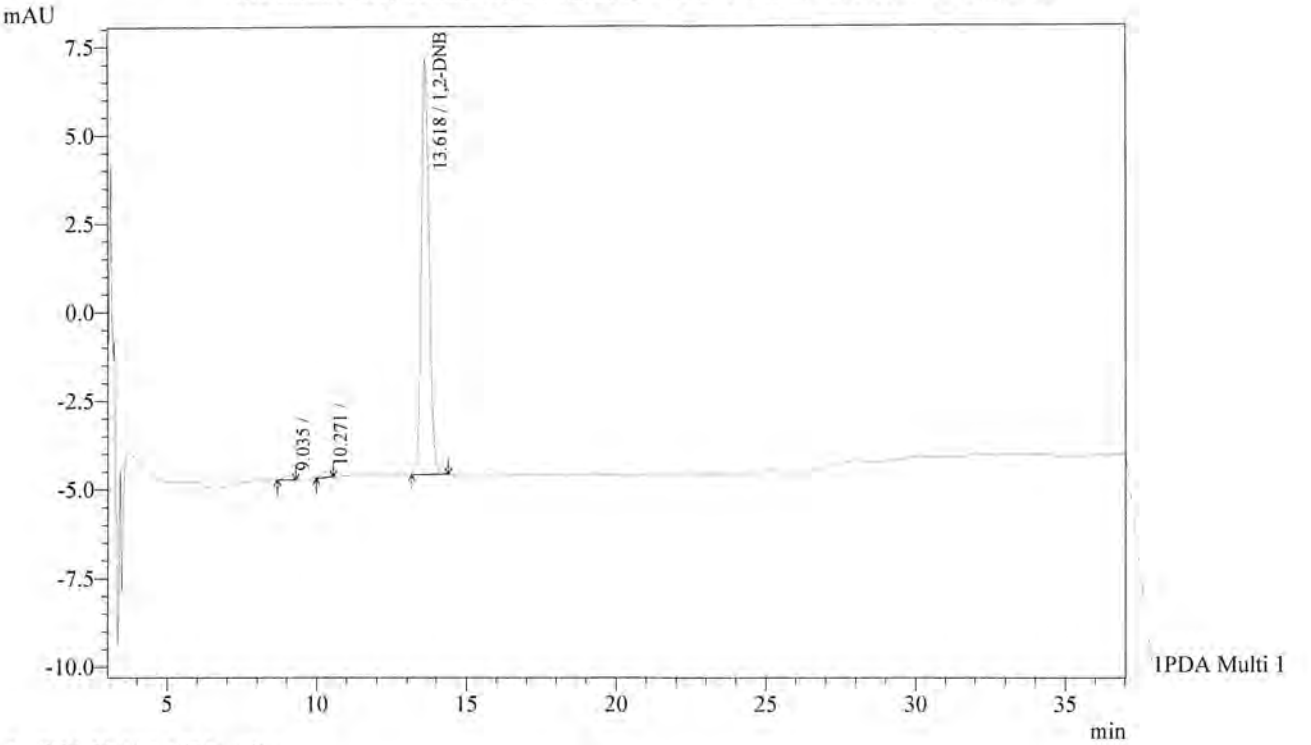
Sample Information

Acquired by	: Admin
Sample Name	: BDH0900-BLK1
Sample ID	:
Vail#	: 9
Injection Volume	: 100 uL
Data Filename	: BDH0900-BLK1_13.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXPDR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/14/2023 4:48:54 PM
Data Processed	: 9/18/2023 1:08:58 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

BDH0900-BLK1 T:\Data6\HPLC2\2023Q3\SEP\091423EXP\BDH0900-BLK1_13.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	0.000	0	0.000	ppb	V
RDX	0.000	0	0.000	ppb	V
1,3,5-TNB	0.000	0	0.000	ppb	V
1,2-DNB	13.618	211606	811.538	ppb	SV
1,3-DNB	0.000	0	0.000	ppb	V
NB	0.000	0	0.000	ppb	V
2,4,6-TNT	0.000	0	0.000	ppb	V
TETRYL	0.000	0	0.000	ppb	V
2,6-DNT	0.000	0	0.000	ppb	V
2,4-DNT	0.000	0	0.000	ppb	V
2-NT	0.000	0	0.000	ppb	V
4-NT	0.000	0	0.000	ppb	V
4-A-2,6-DNT	0.000	0	0.000	ppb	V
3-NT	0.000	0	0.000	ppb	V
2-A-4,6-DNT	0.000	0	0.000	ppb	V

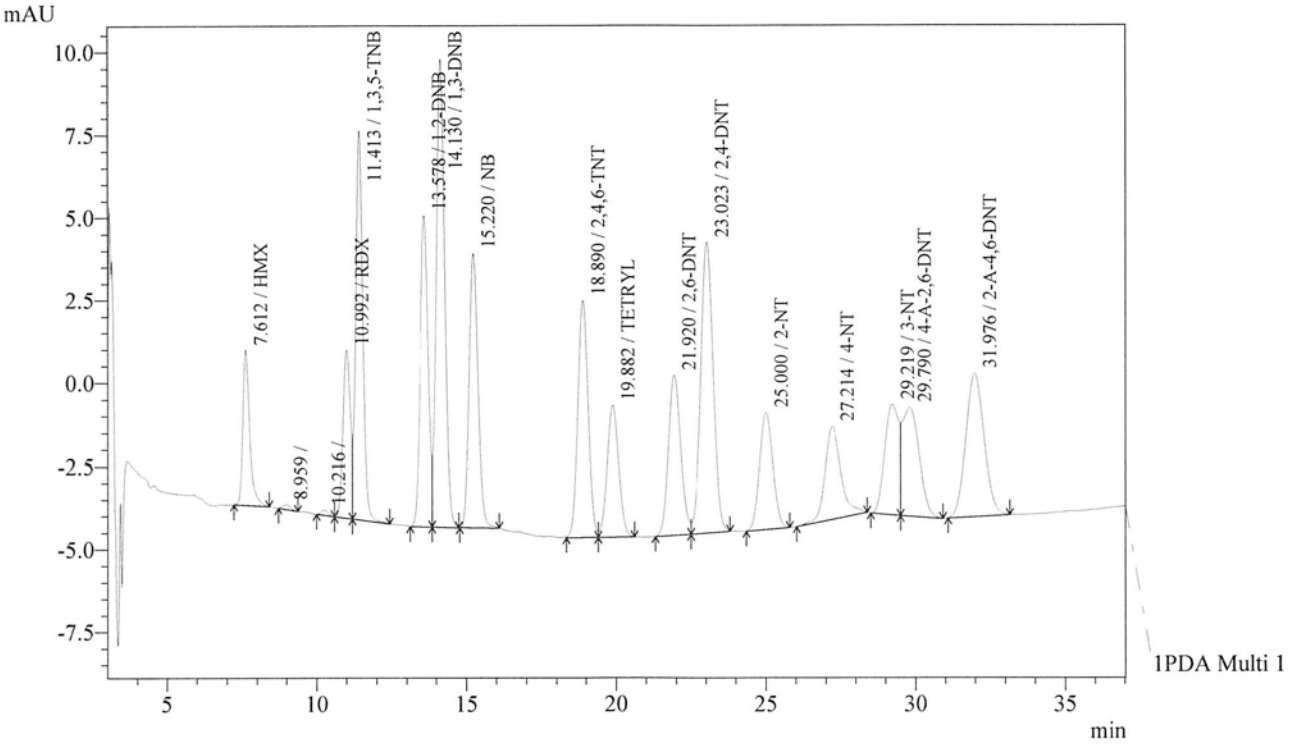
Sample Information

Acquired by	: Admin
Sample Name	: BDH0900-BS1
Sample ID	:
Vail#	: 10
Injection Volume	: 100 uL
Data Filename	: BDH0900-BS1_14.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXPDR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/14/2023 5:26:35 PM
Data Processed	: 9/18/2023 1:09:19 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

BDH0900-BS1 T:\Data6\HPLC2\2023Q3\SEP\091423EXP\BDH0900-BS1_14.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.612	73990	452.568	ppb	
RDX	10.992	86370	478.839	ppb	
1,3,5-TNB	11.413	191128	426.278	ppb	V
1,2-DNB	13.578	174775	670.286	ppb	
1,3-DNB	14.130	272009	426.740	ppb	V
NB	15.220	170253	418.673	ppb	S
2,4,6-TNT	18.890	169603	430.470	ppb	V
TETRYL	19.882	105850	437.049	ppb	V
2,6-DNT	21.920	137604	449.230	ppb	
2,4-DNT	23.023	255049	434.146	ppb	V
2-NT	25.000	108443	464.567	ppb	S
4-NT	27.214	105676	438.602	ppb	
4-A-2,6-DNT	29.790	128102	468.601	ppb	SV
3-NT	29.219	108744	398.615	ppb	
2-A-4,6-DNT	31.976	186471	443.944	ppb	

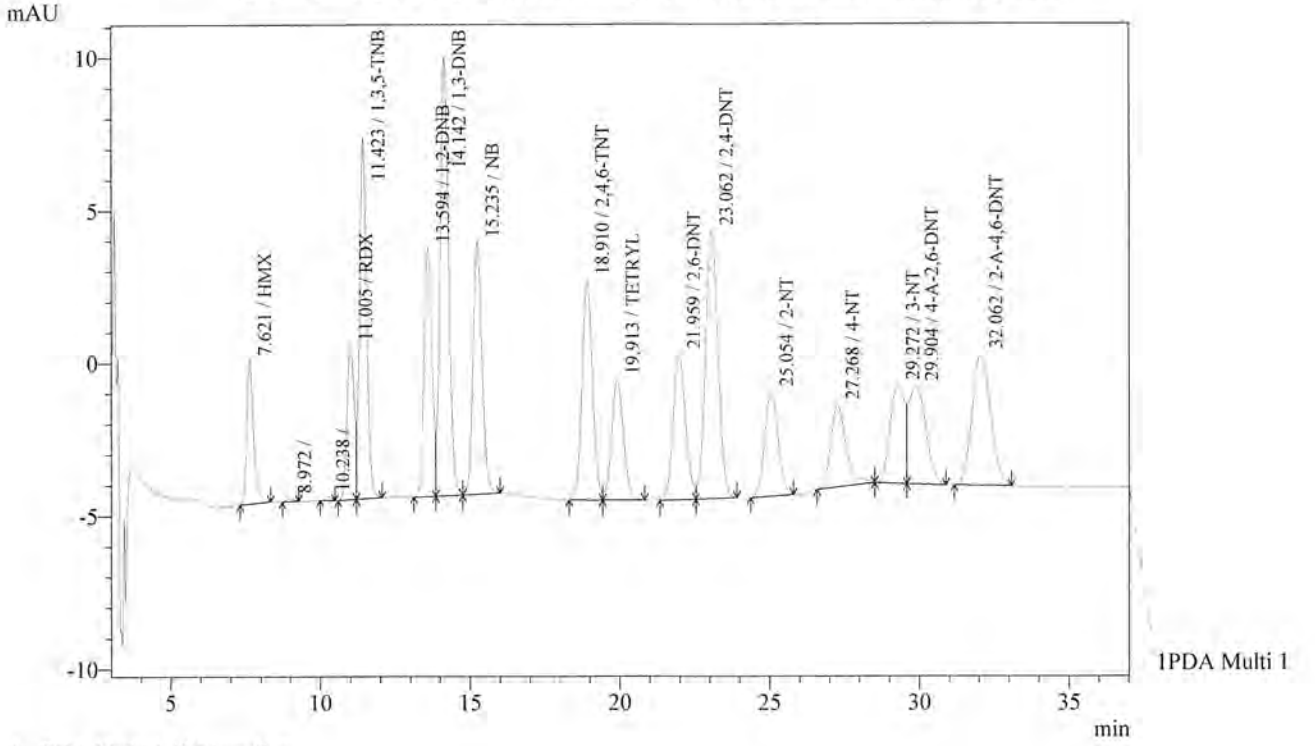
Sample Information

Acquired by	: Admin
Sample Name	: BDH0900-BSD1
Sample ID	:
Vail#	: 11
Injection Volume	: 100 uL
Data Filename	: BDH0900-BSD1_15.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXPDR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/14/2023 6:04:15 PM
Data Processed	: 9/18/2023 1:09:41 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

BDH0900-BSD1 T:\Data6\HPLC2\2023Q3\SEP\091423EXP\BDH0900-BSD1_15.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.621	74670	456.730	ppb	V
RDX	11.005	86709	480.717	ppb	
1,3,5-TNB	11.423	191878	427.951	ppb	V
1,2-DNB	13.594	152044	583.109	ppb	
1,3-DNB	14.142	280061	439.373	ppb	V
NB	15.235	172530	424.272	ppb	V
2,4,6-TNT	18.910	174105	441.896	ppb	
TETRYL	19.913	108555	448.214	ppb	SV
2,6-DNT	21.959	138330	451.603	ppb	V
2,4-DNT	23.062	258258	439.608	ppb	V
2-NT	25.054	106089	454.484	ppb	
4-NT	27.268	98579	409.150	ppb	
4-A-2,6-DNT	29.904	127889	467.819	ppb	V
3-NT	29.272	109245	400.453	ppb	
2-A-4,6-DNT	32.062	186901	444.967	ppb	

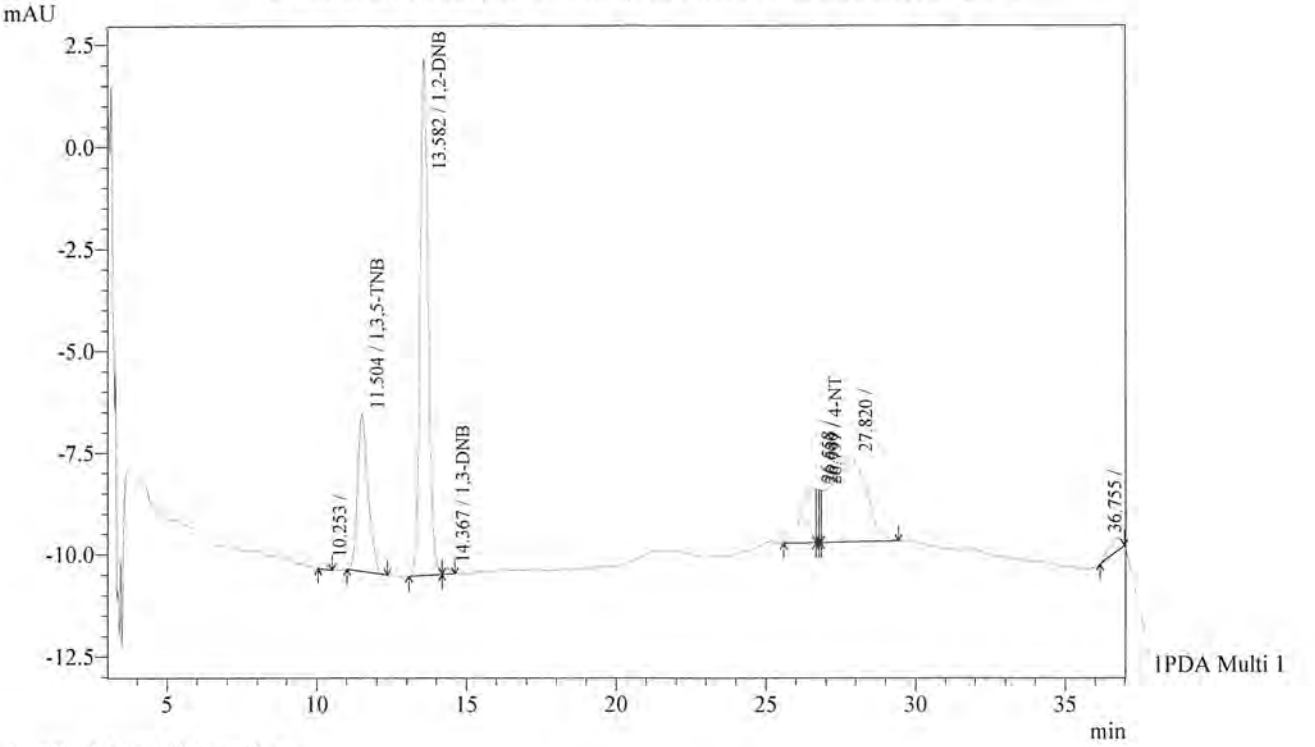
Sample Information

Acquired by	: Admin
Sample Name	: MDH0641-03
Sample ID	:
Vail#	: 12
Injection Volume	: 100 uL
Data Filename	: MDH0641-03_16.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXPDR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/14/2023 6:41:56 PM
Data Processed	: 9/18/2023 1:10:02 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

MDH0641-03 T:\Data6\HPLC2\2023Q3\SEP\091423EXP\MDH0641-03_16.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	0.000	0	0.000	ppb	V
RDX	0.000	0	0.000	ppb	V
1,3,5-TNB	11.504	94524	210.819	ppb	
1,2-DNB	13.582	240526	922.449	ppb	
1,3-DNB	14.367	2709	4.251	ppb	V
NB	0.000	0	0.000	ppb	V
2,4,6-TNT	0.000	0	0.000	ppb	V
TETRYL	0.000	0	0.000	ppb	V
2,6-DNT	0.000	0	0.000	ppb	V
2,4-DNT	0.000	0	0.000	ppb	V
2-NT	0.000	0	0.000	ppb	V
4-NT	26.797	5768	23.940	ppb	V
4-A-2,6-DNT	0.000	0	0.000	ppb	V
3-NT	0.000	0	0.000	ppb	V
2-A-4,6-DNT	0.000	0	0.000	ppb	V

* 1,3,5-TNB deconfirmed using LCMSMS. see appended data.
MSR 9/20/23

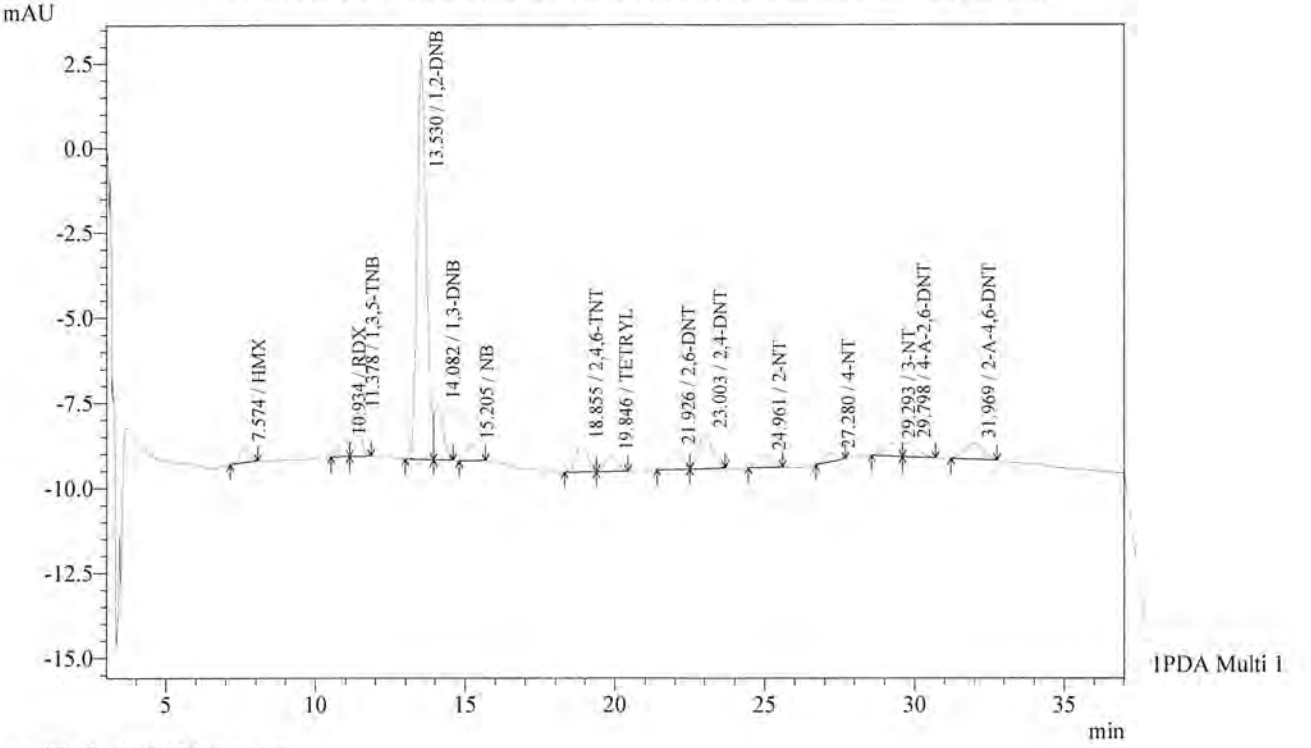
Sample Information

Acquired by	: Admin
Sample Name	: MDH0900-MRL1
Sample ID	:
Vail#	: 13
Injection Volume	: 100 uL
Data Filename	: MDH0900-MRL1_17.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXPDR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/14/2023 7:19:38 PM
Data Processed	: 9/18/2023 1:10:24 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

MDH0900-MRL1 T:\Data6\HPLC2\2023Q3\SEP\091423EXP\MDH0900-MRL1_17.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.574	9253	56.599	ppb	
RDX	10.934	10133	56.176	ppb	
1,3,5-TNB	11.378	23847	53.186	ppb	V
1,2-DNB	13.530	265251	1017.276	ppb	
1,3-DNB	14.082	32225	50.556	ppb	V
NB	15.205	10908	26.824	ppb	
2,4,6-TNT	18.855	21130	53.630	ppb	
TETRYL	19.846	13658	56.394	ppb	V
2,6-DNT	21.926	19423	63.411	ppb	V
2,4-DNT	23.003	33217	56.543	ppb	V
2-NT	24.961	11070	47.424	ppb	S
4-NT	27.280	7606	31.567	ppb	V
4-A-2,6-DNT	29.798	14312	52.354	ppb	V
3-NT	29.293	15150	55.534	ppb	
2-A-4,6-DNT	31.969	21314	50.744	ppb	

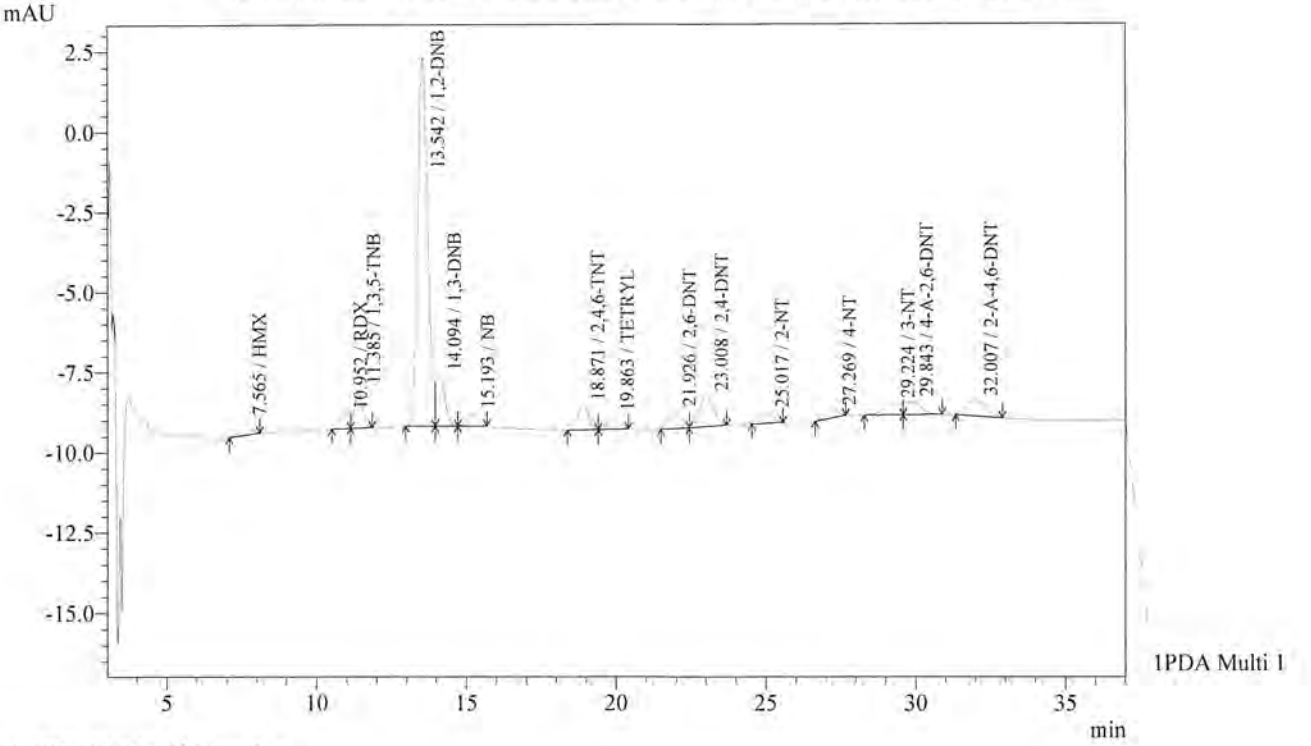
Sample Information

Acquired by	: Admin
Sample Name	: BDH0900-MRL2
Sample ID	:
Vail#	: 14
Injection Volume	: 100 uL
Data Filename	: BDH0900-MRL2_18.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXPDR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/14/2023 7:57:16 PM
Data Processed	: 9/18/2023 1:10:46 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

BDH0900-MRL2 T:\Data6\HPLC2\2023Q3\SEP\091423EXP\BDH0900-MRL2_18.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.565	9733	59.534	ppb	V
RDX	10.952	9295	51.531	ppb	
1,3,5-TNB	11.385	22815	50.884	ppb	V
1,2-DNB	13.542	262697	1007.480	ppb	
1,3-DNB	14.094	31957	50.135	ppb	V
NB	15.193	9428	23.184	ppb	V
2,4,6-TNT	18.871	18574	47.144	ppb	
TETRYL	19.863	11539	47.645	ppb	V
2,6-DNT	21.926	16809	54.876	ppb	V
2,4-DNT	23.008	31054	52.860	ppb	V
2-NT	25.017	10373	44.439	ppb	V
4-NT	27.269	7167	29.746	ppb	
4-A-2,6-DNT	29.843	15149	55.416	ppb	V
3-NT	29.224	14799	54.249	ppb	
2-A-4,6-DNT	32.007	22481	53.521	ppb	V

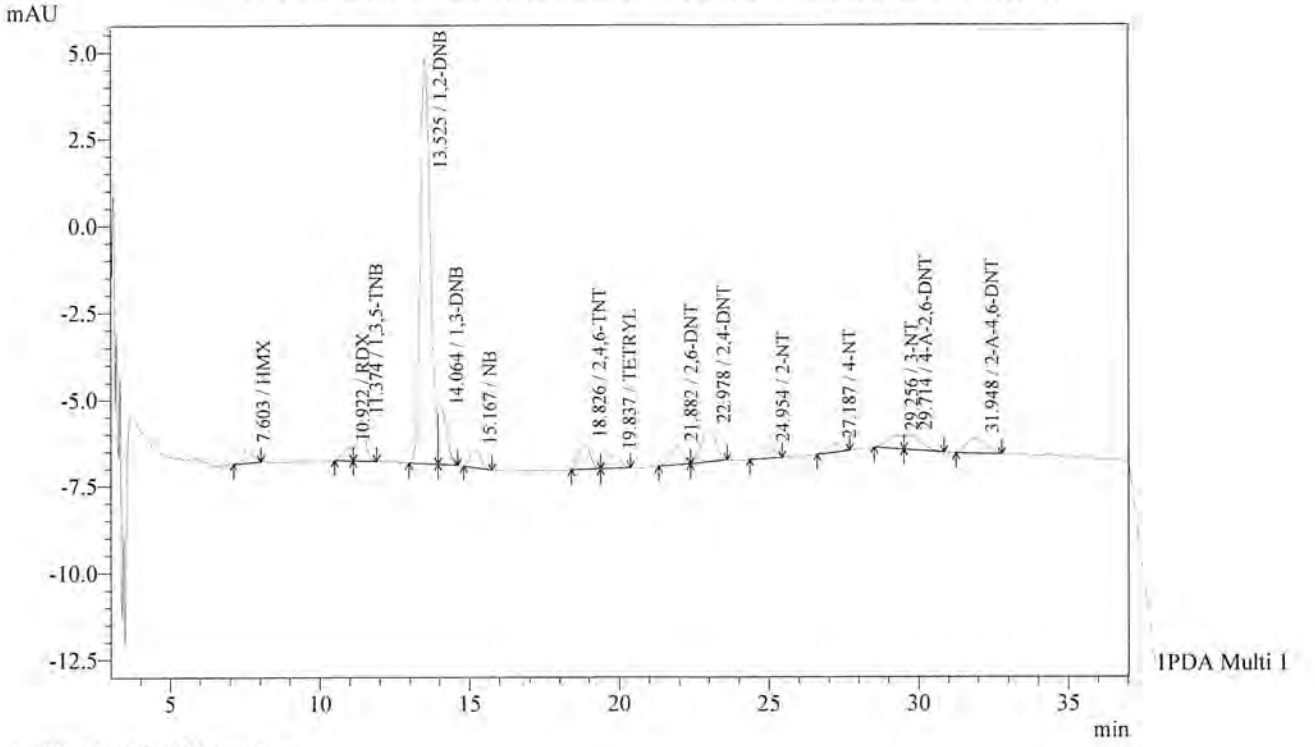
Sample Information

Acquired by	: Admin
Sample Name	: BDH0900-MRL3
Sample ID	:
Vail#	: 15
Injection Volume	: 100 uL
Data Filename	: BDH0900-MRL3_19.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXPDR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/14/2023 8:34:59 PM
Data Processed	: 9/18/2023 1:11:07 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

BDH0900-MRL3 T:\Data6\HPLC2\2023Q3\SEP\091423EXP\BDH0900-MRL3_19.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.603	9976	61.019	ppb	V
RDX	10.922	9110	50.504	ppb	
1,3,5-TNB	11.374	23535	52.490	ppb	V
1,2-DNB	13.525	276626	1060.898	ppb	
1,3-DNB	14.064	30537	47.907	ppb	V
NB	15.167	12169	29.924	ppb	
2,4,6-TNT	18.826	19711	50.028	ppb	V
TETRYL	19.837	11230	46.367	ppb	V
2,6-DNT	21.882	16996	55.486	ppb	V
2,4-DNT	22.978	31145	53.016	ppb	V
2-NT	24.954	11511	49.315	ppb	V
4-NT	27.187	8105	33.639	ppb	V
4-A-2,6-DNT	29.714	15761	57.652	ppb	V
3-NT	29.256	13941	51.102	ppb	
2-A-4,6-DNT	31.948	21091	50.213	ppb	V

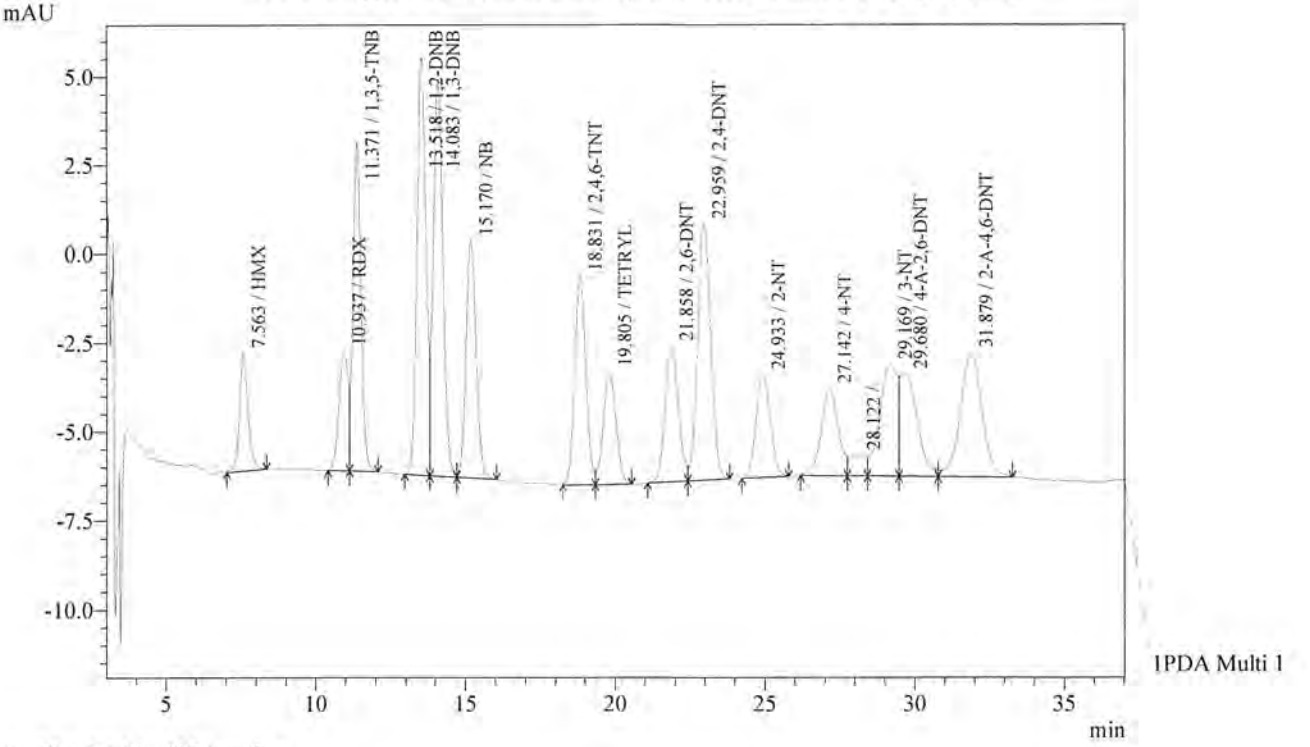
Sample Information

Acquired by	: Admin
Sample Name	: CCV 400 ppb
Sample ID	:
Vail#	: 4
Injection Volume	: 100 uL
Data Filename	: CCV 400 ppb_20.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXPDR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/14/2023 9:12:38 PM
Data Processed	: 9/18/2023 1:11:29 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

CCV 400 ppb T:\Data6\HPLC2\2023Q3\SEP\091423EXP\CCV 400 ppb_20.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.563	66540	406.998	ppb	SV
RDX	10.937	72203	400.296	ppb	V
1,3,5-TNB	11.371	171779	383.123	ppb	V
1,2-DNB	13.518	256220	982.641	ppb	
1,3-DNB	14.083	250095	392.360	ppb	V
NB	15.170	156116	383.908	ppb	V
2,4,6-TNT	18.831	151879	385.484	ppb	V
TETRYL	19.805	93656	386.698	ppb	V
2,6-DNT	21.858	118447	386.692	ppb	
2,4-DNT	22.959	227498	387.248	ppb	SV
2-NT	24.933	96450	413.188	ppb	
4-NT	27.142	98343	408.169	ppb	
4-A-2,6-DNT	29.680	116709	426.925	ppb	V
3-NT	29.169	129324	474.053	ppb	V
2-A-4,6-DNT	31.879	177827	423.362	ppb	SV

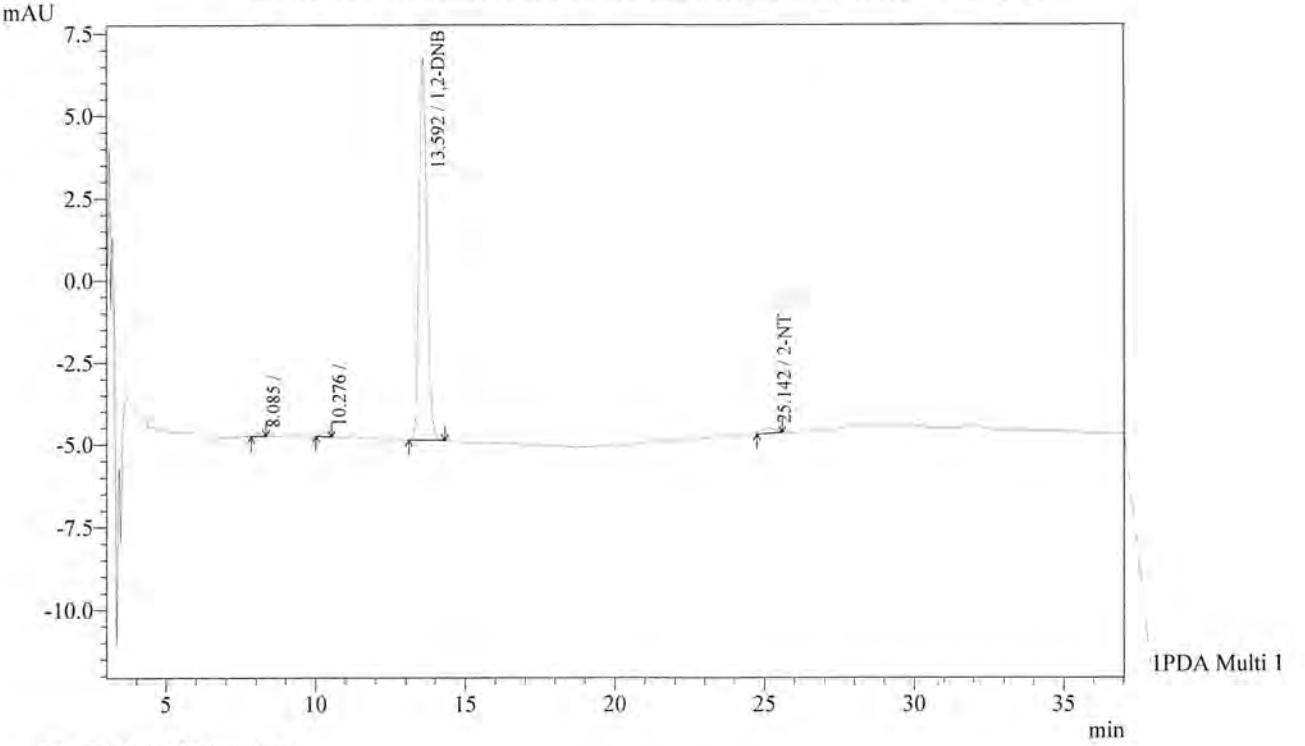
Sample Information

Acquired by	: Admin
Sample Name	: BDI0041-BLK1
Sample ID	:
Vail#	: 16
Injection Volume	: 100 uL
Data Filename	: BDI0041-BLK1_21.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXPDR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/14/2023 9:50:17 PM
Data Processed	: 9/18/2023 1:11:51 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

BDI0041-BLK1 T:\Data6\HPLC2\2023Q3\SEP\091423EXP\BDI0041-BLK1_21.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	0.000	0	0.000	ppb	V
RDX	0.000	0	0.000	ppb	V
1,3,5-TNB	0.000	0	0.000	ppb	V
1,2-DNB	13.592	210049	805.568	ppb	S
1,3-DNB	0.000	0	0.000	ppb	V
NB	0.000	0	0.000	ppb	V
2,4,6-TNT	0.000	0	0.000	ppb	V
TETRYL	0.000	0	0.000	ppb	V
2,6-DNT	0.000	0	0.000	ppb	V
2,4-DNT	0.000	0	0.000	ppb	V
2-NT	25.142	4977	21.323	ppb	V
4-NT	0.000	0	0.000	ppb	V
4-A-2,6-DNT	0.000	0	0.000	ppb	V
3-NT	0.000	0	0.000	ppb	V
2-A-4,6-DNT	0.000	0	0.000	ppb	V

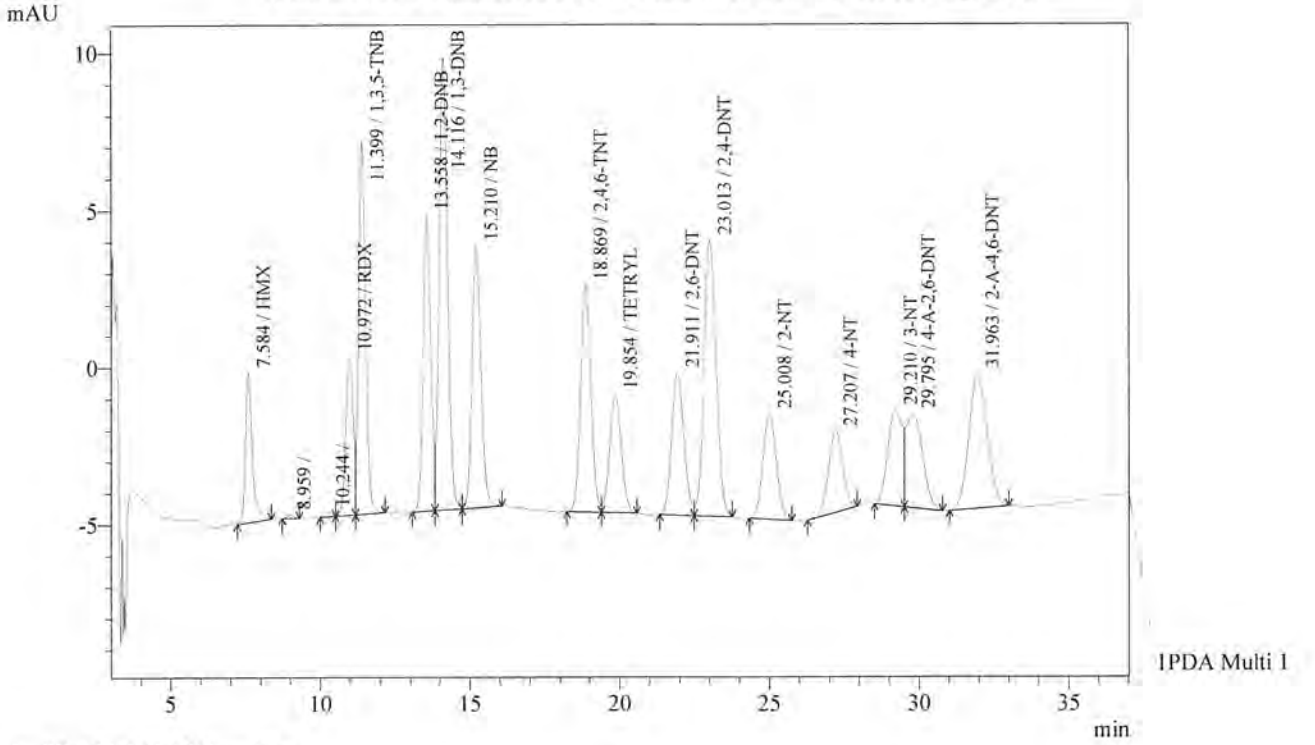
Sample Information

Acquired by	: Admin
Sample Name	: BDI0041-BS1
Sample ID	:
Vail#	: 17
Injection Volume	: 100 uL
Data Filename	: BDI0041-BS1_22.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXPDR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/14/2023 10:27:57 PM
Data Processed	: 9/18/2023 1:12:13 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

BDI0041-BS1 T:\Data6\HPLC2\2023Q3\SEP\091423EXP\BDI0041-BS1_22.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.584	77154	471.923	ppb	V
RDX	10.972	88602	491.212	ppb	V
1,3,5-TNB	11.399	190909	425.788	ppb	SV
1,2-DNB	13.558	175295	672.281	ppb	
1,3-DNB	14.116	278716	437.262	ppb	V
NB	15.210	174192	428.358	ppb	V
2,4,6-TNT	18.869	173384	440.065	ppb	
TETRYL	19.854	101324	418.360	ppb	V
2,6-DNT	21.911	129406	422.469	ppb	
2,4-DNT	23.013	255351	434.660	ppb	V
2-NT	25.008	104294	446.794	ppb	
4-NT	27.207	88544	367.497	ppb	
4-A-2,6-DNT	29.795	115860	423.818	ppb	V
3-NT	29.210	104428	382.793	ppb	
2-A-4,6-DNT	31.963	187166	445.598	ppb	

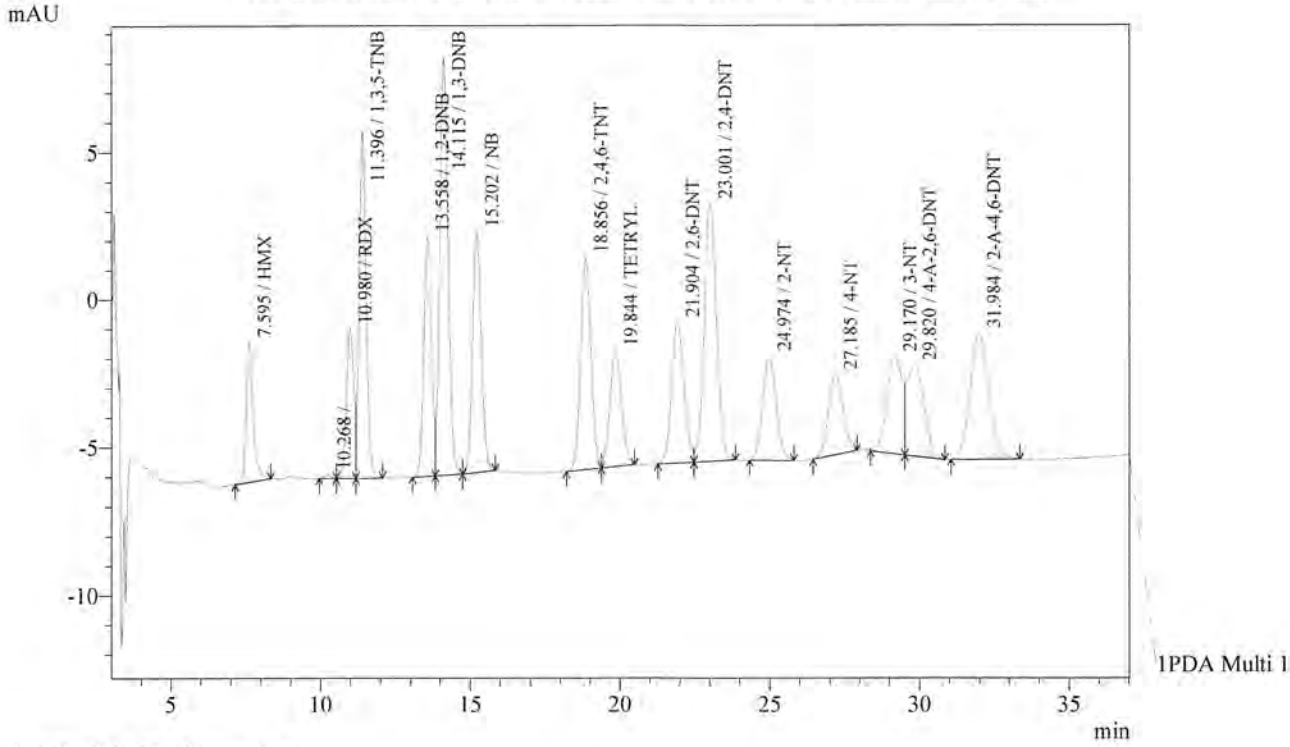
Sample Information

Acquired by	: Admin
Sample Name	: BDI0041-BSD1
Sample ID	:
Vail#	: 18
Injection Volume	: 100 uL
Data Filename	: BDI0041-BSD1_23.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXPDR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/14/2023 11:05:39 PM
Data Processed	: 9/18/2023 1:12:35 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

BDI0041-BSD1 T:\Data6\HPLC2\2023Q3\SEP\091423EXP\BDI0041-BSD1_23.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.595	76419	467.427	ppb	V
RDX	10.980	87816	486.855	ppb	
1,3,5-TNB	11.396	189354	422.320	ppb	V
1,2-DNB	13.558	151958	582.781	ppb	
1,3-DNB	14.115	271621	426.131	ppb	V
NB	15.202	167012	410.702	ppb	
2,4,6-TNT	18.856	171547	435.403	ppb	V
TETRYL	19.844	105151	434.162	ppb	V
2,6-DNT	21.904	138175	451.097	ppb	V
2,4-DNT	23.001	256085	435.909	ppb	V
2-NT	24.974	111252	476.599	ppb	
4-NT	27.185	91565	380.035	ppb	
4-A-2,6-DNT	29.820	121051	442.805	ppb	V
3-NT	29.170	117141	429.397	ppb	V
2-A-4,6-DNT	31.984	190209	452.841	ppb	S

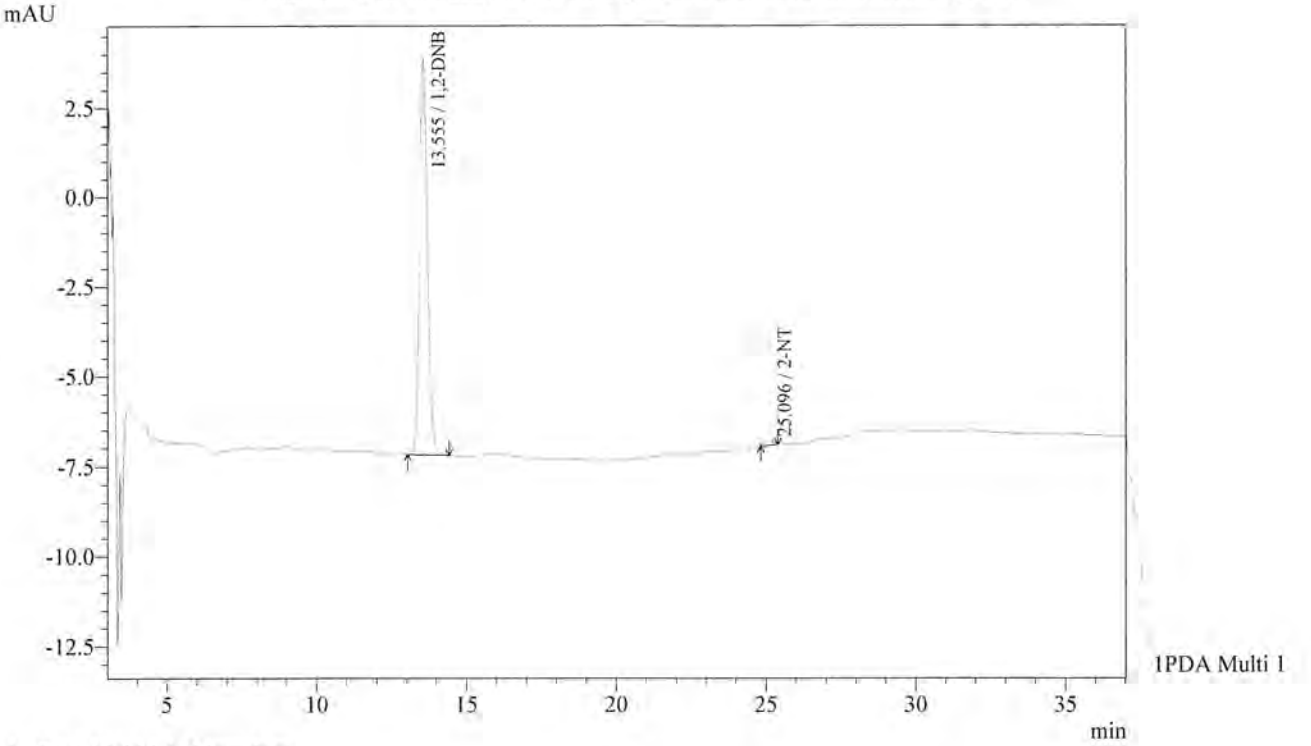
Sample Information

Acquired by	: Admin
Sample Name	: MDH0994-03
Sample ID	:
Vail#	: 19
Injection Volume	: 100 uL
Data Filename	: MDH0994-03_24.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXPDR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/14/2023 11:43:20 PM
Data Processed	: 9/18/2023 1:12:57 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

MDH0994-03 T:\Data6\HPLC2\2023Q3\SEP\091423EXP\MDH0994-03_24.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	0.000	0	0.000	ppb	V
RDX	0.000	0	0.000	ppb	V
1,3,5-TNB	0.000	0	0.000	ppb	V
1,2-DNB	13.555	208742	800.556	ppb	
1,3-DNB	0.000	0	0.000	ppb	V
NB	0.000	0	0.000	ppb	V
2,4,6-TNT	0.000	0	0.000	ppb	V
TETRYL	0.000	0	0.000	ppb	V
2,6-DNT	0.000	0	0.000	ppb	V
2,4-DNT	0.000	0	0.000	ppb	V
2-NT	25.096	2652	~~11.361~~	ppb	V
4-NT	0.000	0	0.000	ppb	V
4-A-2,6-DNT	0.000	0	0.000	ppb	V
3-NT	0.000	0	0.000	ppb	V
2-A-4,6-DNT	0.000	0	0.000	ppb	V

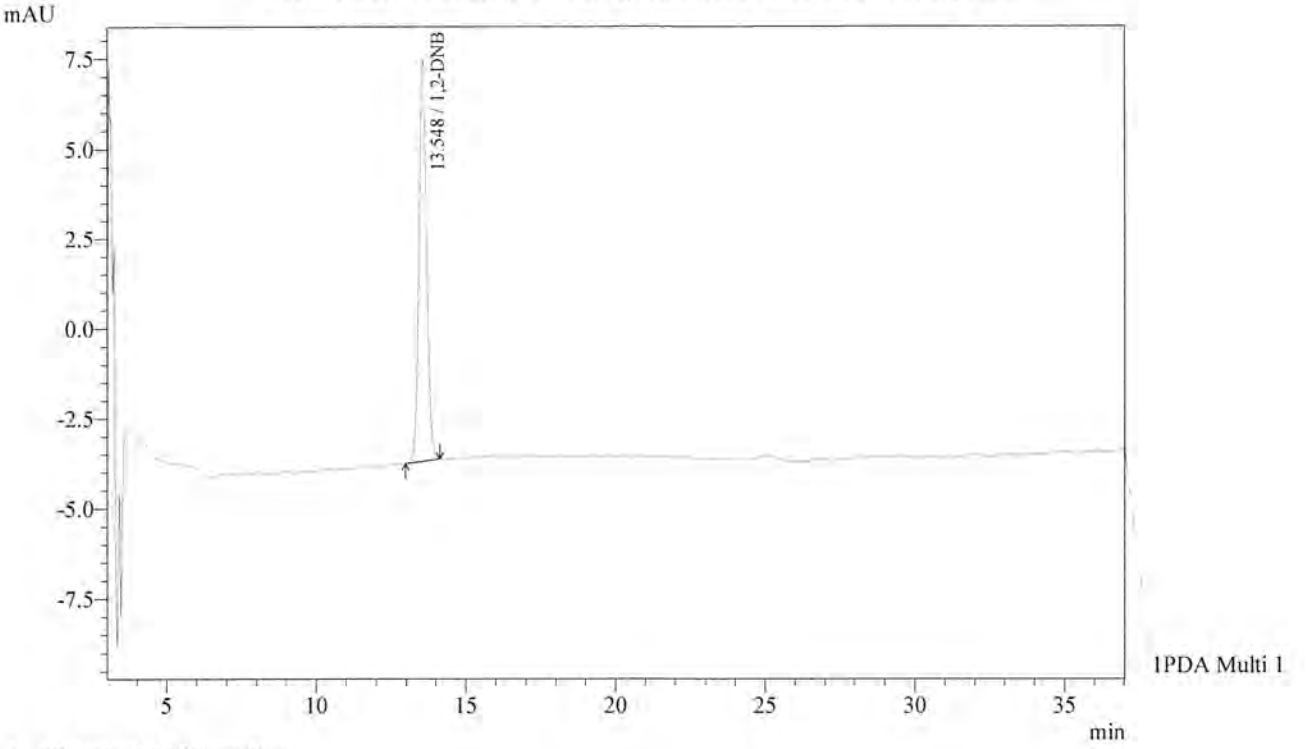
Sample Information

Acquired by	: Admin
Sample Name	: MDH0994-04
Sample ID	:
Vail#	: 20
Injection Volume	: 100 uL
Data Filename	: MDH0994-04_25.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXPDR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/15/2023 12:21:00 AM
Data Processed	: 9/18/2023 1:13:19 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

MDH0994-04 T:\Data6\HPLC2\2023Q3\SEP\091423EXP\MDH0994-04_25.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	0.000	0	0.000	ppb	V
RDX	0.000	0	0.000	ppb	V
1,3,5-TNB	0.000	0	0.000	ppb	V
1,2-DNB	13.548	207957	797.545	ppb	
1,3-DNB	0.000	0	0.000	ppb	V
NB	0.000	0	0.000	ppb	V
2,4,6-TNT	0.000	0	0.000	ppb	V
TETRYL	0.000	0	0.000	ppb	V
2,6-DNT	0.000	0	0.000	ppb	V
2,4-DNT	0.000	0	0.000	ppb	V
2-NT	0.000	0	0.000	ppb	V
4-NT	0.000	0	0.000	ppb	V
4-A-2,6-DNT	0.000	0	0.000	ppb	V
3-NT	0.000	0	0.000	ppb	V
2-A-4,6-DNT	0.000	0	0.000	ppb	V

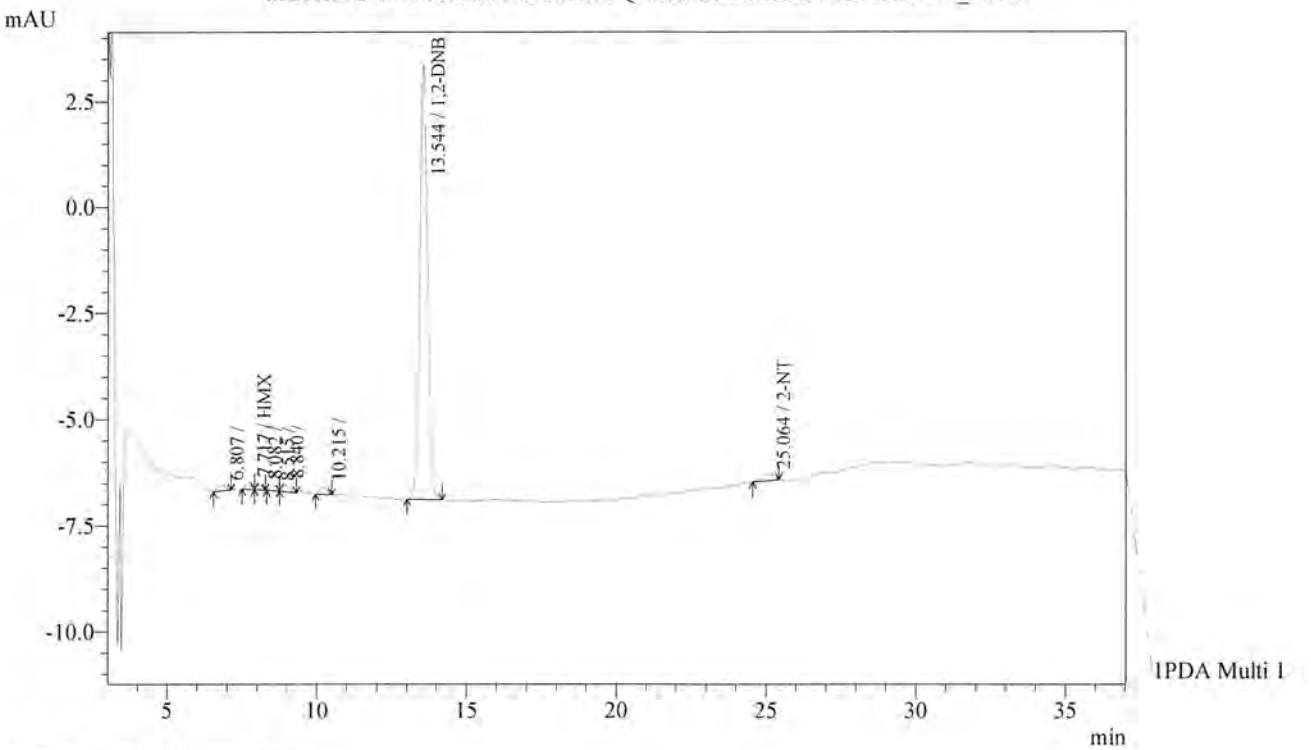
Sample Information

Acquired by	: Admin
Sample Name	: MDH0998-02
Sample ID	:
Vail#	: 21
Injection Volume	: 100 uL
Data Filename	: MDH0998-02_26.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXPDR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/15/2023 12:58:38 AM
Data Processed	: 9/18/2023 1:13:41 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

MDH0998-02 T:\Data6\HPLC2\2023Q3\SEP\091423EXP\MDH0998-02_26.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.717	2326	14.229	ppb	
RDX	0.000	0	0.000	ppb	V
1,3,5-TNB	0.000	0	0.000	ppb	V
1,2-DNB	13.544	193774	743.149	ppb	
1,3-DNB	0.000	0	0.000	ppb	V
NB	0.000	0	0.000	ppb	V
2,4,6-TNT	0.000	0	0.000	ppb	V
TETRYL	0.000	0	0.000	ppb	V
2,6-DNT	0.000	0	0.000	ppb	V
2,4-DNT	0.000	0	0.000	ppb	V
2-NT	25.064	3914	16.766	ppb	
4-NT	0.000	0	0.000	ppb	V
4-A-2,6-DNT	0.000	0	0.000	ppb	V
3-NT	0.000	0	0.000	ppb	V
2-A-4,6-DNT	0.000	0	0.000	ppb	V

* HMX deconfirmed w/ LCMSMS. See appended data.

MDR 9/20/23

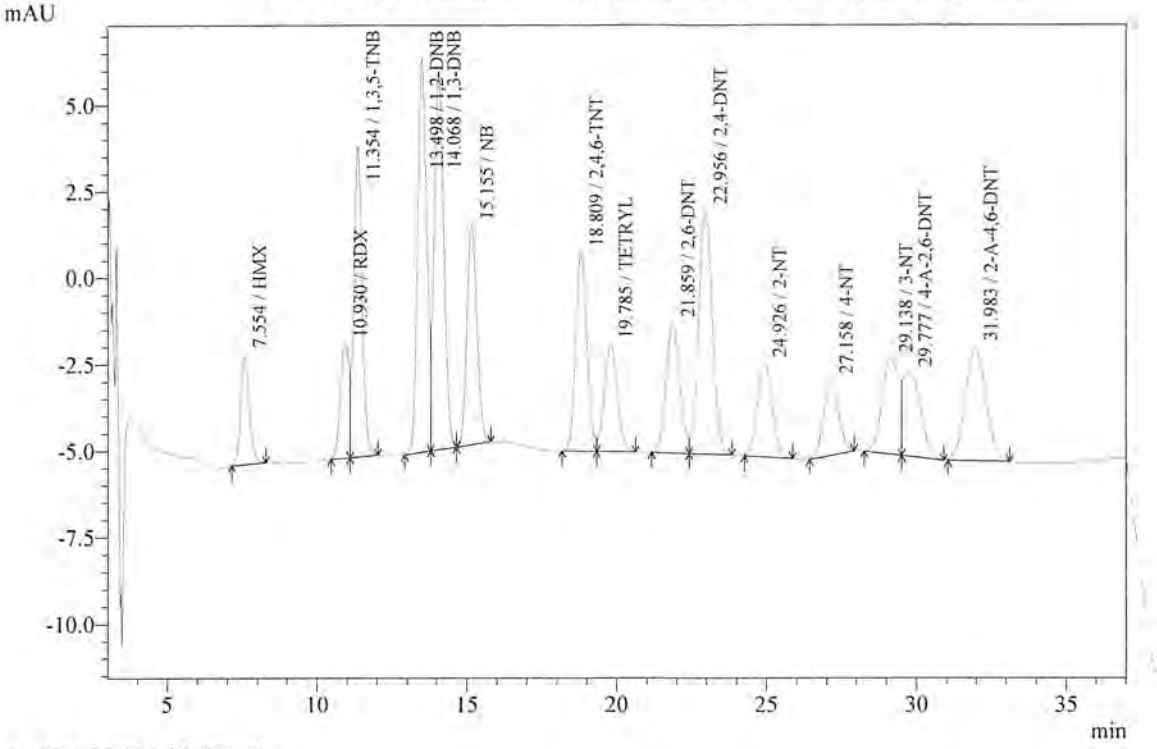
Sample Information

Acquired by	: Admin
Sample Name	: CCV 400 ppb
Sample ID	:
Vail#	: 4
Injection Volume	: 100 uL
Data Filename	: CCV 400 ppb_27.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXPDR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/15/2023 1:36:17 AM
Data Processed	: 9/18/2023 1:14:03 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

CCV 400 ppb T:\Data6\HPLC2\2023Q3\SEP\091423EXP\CCV 400 ppb_27.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.554	64550	394.828	ppb	V
RDX	10.930	67598	374.767	ppb	V
1,3,5-TNB	11.354	175020	390.351	ppb	V
1,2-DNB	13.498	252405	968.009	ppb	
1,3-DNB	14.068	244138	383.015	ppb	V
NB	15.155	148383	364.892	ppb	
2,4,6-TNT	18.809	151435	384.357	ppb	
TETRYL	19.785	93654	386.692	ppb	V
2,6-DNT	21.859	120131	392.187	ppb	
2,4-DNT	22.956	227151	386.658	ppb	V
2-NT	24.926	93596	400.961	ppb	V
4-NT	27.158	79366	329.406	ppb	V
4-A-2,6-DNT	29.777	98713	361.093	ppb	V
3-NT	29.138	109665	401.991	ppb	
2-A-4,6-DNT	31.983	160316	381.673	ppb	SV

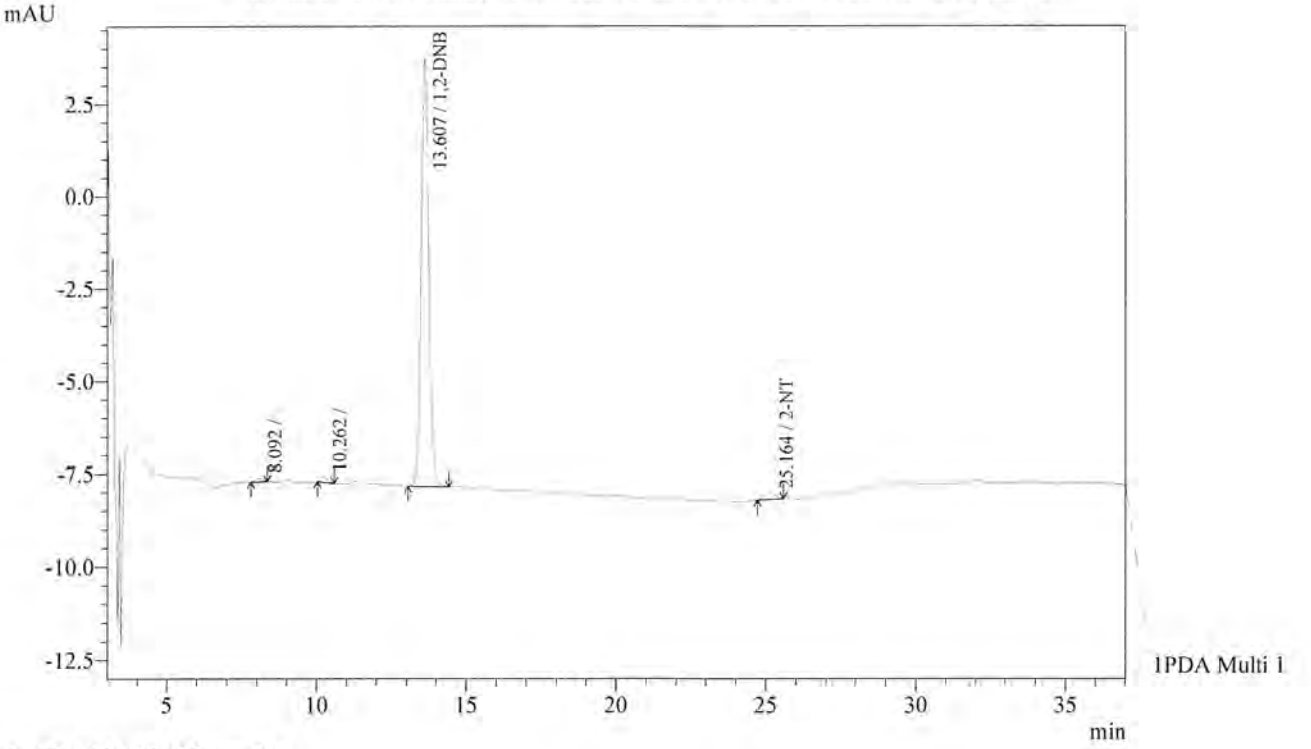
Sample Information

Acquired by	: Admin
Sample Name	: BDI0064-BLK1
Sample ID	:
Vail#	: 22
Injection Volume	: 100 uL
Data Filename	: BDI0064-BLK1_28.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXPDR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/15/2023 2:13:58 AM
Data Processed	: 9/18/2023 1:14:25 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

BDI0064-BLK1 T:\Data6\HPLC2\2023Q3\SEP\091423EXP\BDI0064-BLK1_28.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	0.000	0	0.000	ppb	V
RDX	0.000	0	0.000	ppb	V
1,3,5-TNB	0.000	0	0.000	ppb	V
1,2-DNB	13.607	212219	813.890	ppb	S
1,3-DNB	0.000	0	0.000	ppb	V
NB	0.000	0	0.000	ppb	V
2,4,6-TNT	0.000	0	0.000	ppb	V
TETRYL	0.000	0	0.000	ppb	V
2,6-DNT	0.000	0	0.000	ppb	V
2,4-DNT	0.000	0	0.000	ppb	V
2-NT	25.164	4688	20.082	ppb	
4-NT	0.000	0	0.000	ppb	V
4-A-2,6-DNT	0.000	0	0.000	ppb	V
3-NT	0.000	0	0.000	ppb	V
2-A-4,6-DNT	0.000	0	0.000	ppb	V

Sample Information

Acquired by	: Admin
Sample Name	: BDI0064-BS1
Sample ID	:
Vail#	: 23
Injection Volume	: 100 uL
Data Filename	: BDI0064-BS1_29.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXPDR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/15/2023 2:51:39 AM
Data Processed	: 9/18/2023 1:14:48 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

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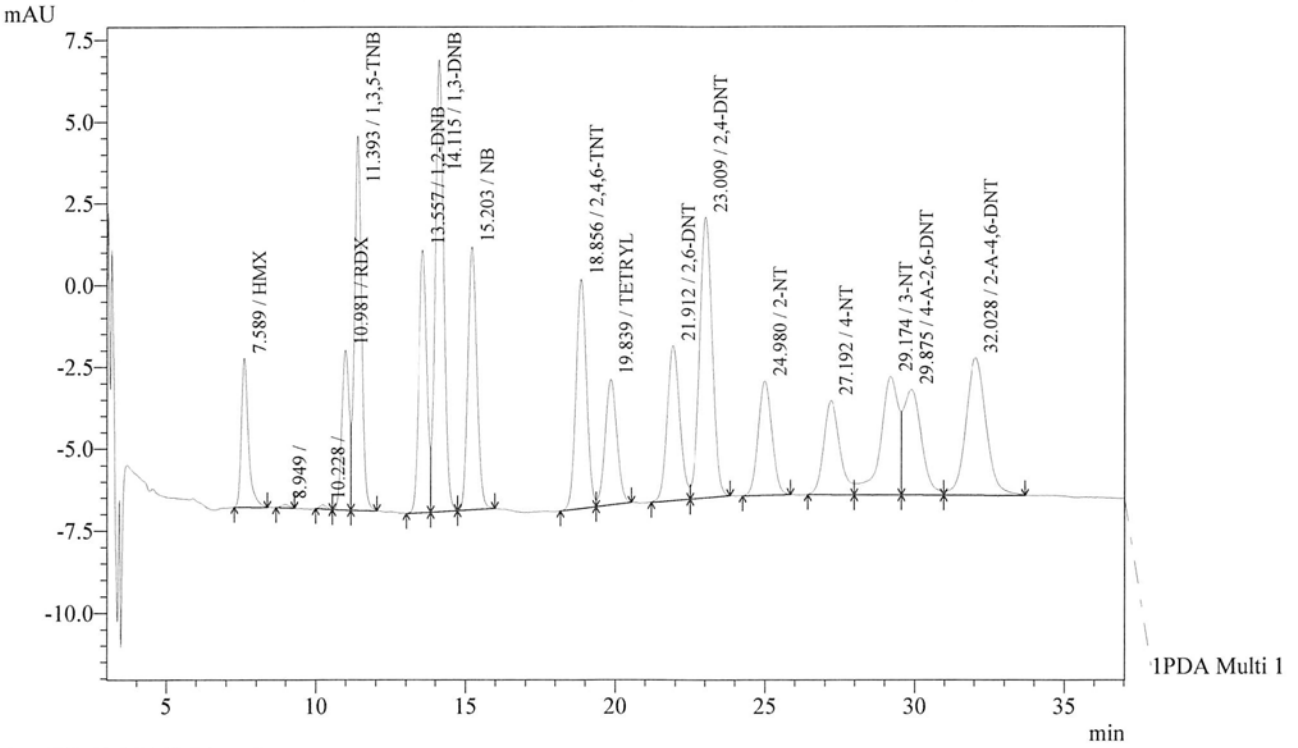


1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.589	74638	456.531	ppb	S
RDX	10.981	84285	467.275	ppb	
1,3,5-TNB	11.393	189039	421.620	ppb	V
1,2-DNB	13.557	152294	584.071	ppb	
1,3-DNB	14.115	270428	424.260	ppb	V
NB	15.203	167871	412.815	ppb	V
2,4,6-TNT	18.856	170040	431.579	ppb	
TETRYL	19.839	105037	433.690	ppb	V
2,6-DNT	21.912	139120	454.182	ppb	V
2,4-DNT	23.009	253514	431.534	ppb	V
2-NT	24.980	111435	477.385	ppb	
4-NT	27.192	109061	452.653	ppb	
4-A-2,6-DNT	29.875	134906	493.488	ppb	V
3-NT	29.174	152775	560.015	ppb	V
2-A-4,6-DNT	32.028	200104	476.400	ppb	SV

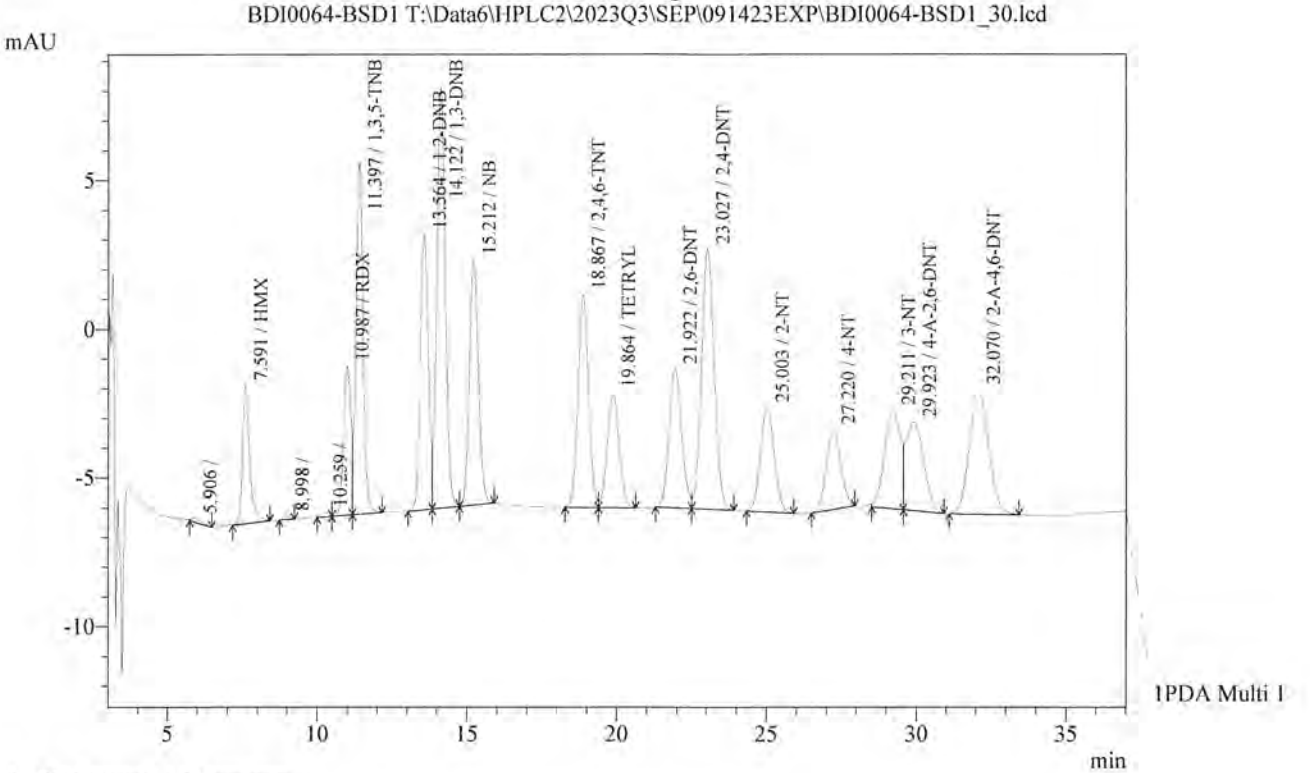
Sample Information

Acquired by	: Admin
Sample Name	: BDI0064-BSD1
Sample ID	:
Vail#	: 24
Injection Volume	: 100 uL
Data Filename	: BDI0064-BSD1_30.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXPDR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/15/2023 3:29:21 AM
Data Processed	: 9/18/2023 1:15:10 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

BDI0064-BSD1 T:\Data6\HPLC2\2023Q3\SEP\091423EXP\BDI0064-BSD1_30.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.591	77056	471.319	ppb	V
RDX	10.987	85525	474.151	ppb	V
1,3,5-TNB	11.397	196498	438.255	ppb	SV
1,2-DNB	13.564	176208	675.784	ppb	
1,3-DNB	14.122	277428	435.242	ppb	V
NB	15.212	173287	426.132	ppb	V
2,4,6-TNT	18.867	174495	442.887	ppb	V
TETRYL	19.864	107974	445.816	ppb	V
2,6-DNT	21.922	135454	442.214	ppb	
2,4-DNT	23.027	259503	441.727	ppb	V
2-NT	25.003	112343	481.273	ppb	
4-NT	27.220	91768	380.878	ppb	
4-A-2,6-DNT	29.923	121141	443.137	ppb	V
3-NT	29.211	122575	449.313	ppb	V
2-A-4,6-DNT	32.070	189752	451.754	ppb	S

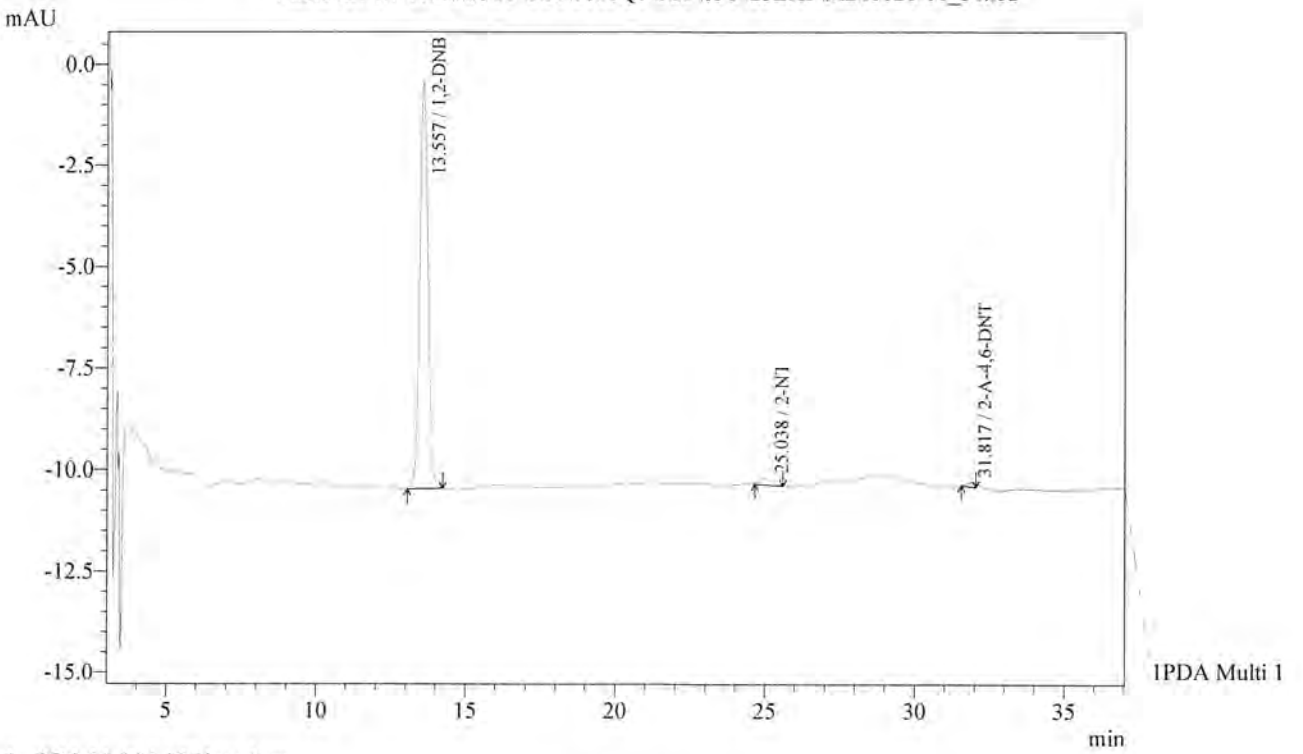
Sample Information

Acquired by	: Admin
Sample Name	: MDI0021-01
Sample ID	:
Vail#	: 25
Injection Volume	: 100 uL
Data Filename	: MDI0021-01_31.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXPDR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/15/2023 4:07:00 AM
Data Processed	: 9/18/2023 1:15:32 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

MDI0021-01 T:\Data6\HPLC2\2023Q3\SEP\091423EXP\MDI0021-01_31.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	0.000	0	0.000	ppb	V
RDX	0.000	0	0.000	ppb	V
1,3,5-TNB	0.000	0	0.000	ppb	V
1,2-DNB	13.557	190897	732.115	ppb	
1,3-DNB	0.000	0	0.000	ppb	V
NB	0.000	0	0.000	ppb	V
2,4,6-TNT	0.000	0	0.000	ppb	V
TETRYL	0.000	0	0.000	ppb	V
2,6-DNT	0.000	0	0.000	ppb	V
2,4-DNT	0.000	0	0.000	ppb	V
2-NT	25.038	5190	22.232	ppb	V
4-NT	0.000	0	0.000	ppb	V
4-A-2,6-DNT	0.000	0	0.000	ppb	V
3-NT	0.000	0	0.000	ppb	V
2-A-4,6-DNT	31.817	2252	5.362	ppb	

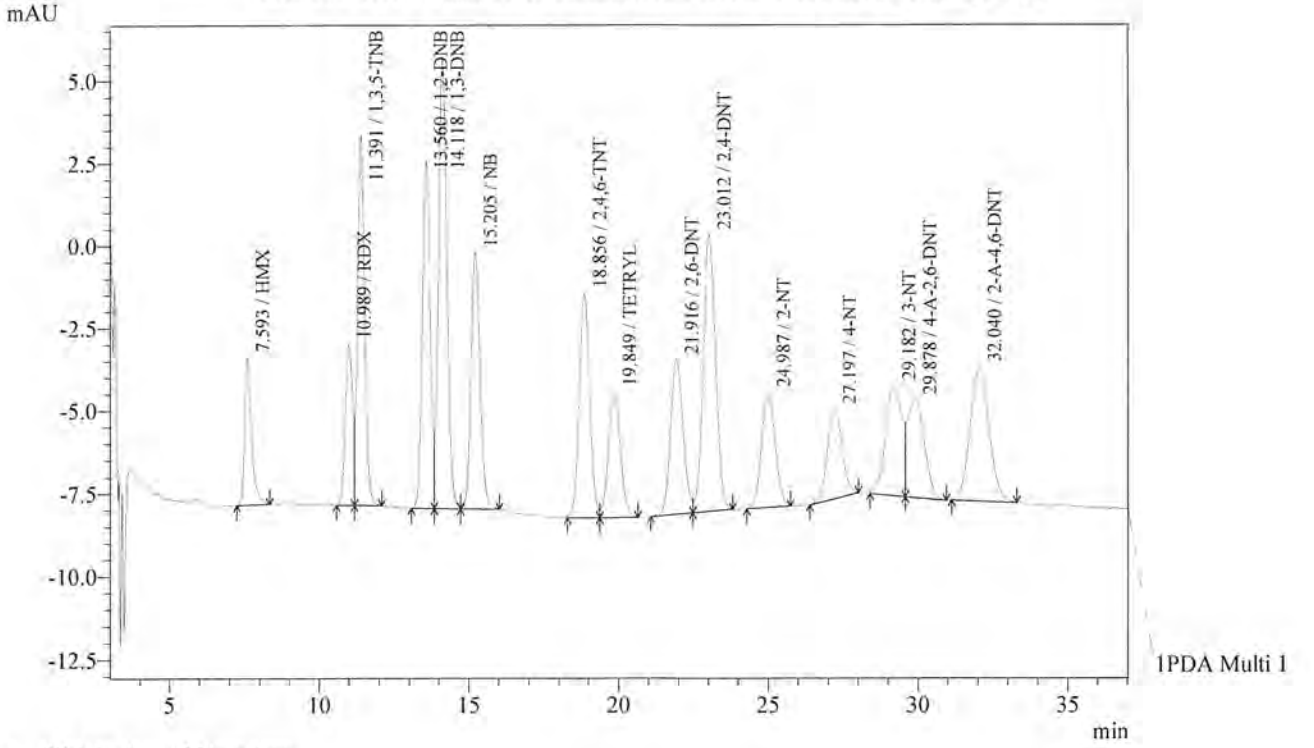
Sample Information

Acquired by	: Admin
Sample Name	: MDI0021-MS1
Sample ID	:
Vail#	: 26
Injection Volume	: 100 uL
Data Filename	: MDI0021-MS1_32.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXPDR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/15/2023 4:44:41 AM
Data Processed	: 9/18/2023 1:15:54 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

MDI0021-MS1 T:\Data6\HPLC2\2023Q3\SEP\091423EXP\MDI0021-MS1_32.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.593	72341	442.483	ppb	
RDX	10.989	83737	464.237	ppb	
1,3,5-TNB	11.391	182678	407.431	ppb	V
1,2-DNB	13.560	198750	762.234	ppb	
1,3-DNB	14.118	266385	417.916	ppb	V
NB	15.205	162893	400.572	ppb	V
2,4,6-TNT	18.856	164929	418.606	ppb	V
TETRYL	19.849	105913	437.306	ppb	SV
2,6-DNT	21.916	136396	445.290	ppb	
2,4-DNT	23.012	246366	419.367	ppb	V
2-NT	24.987	110163	471.936	ppb	
4-NT	27.197	93856	389.548	ppb	
4-A-2,6-DNT	29.878	116153	424.891	ppb	V
3-NT	29.182	126539	463.845	ppb	V
2-A-4,6-DNT	32.040	182530	434.560	ppb	

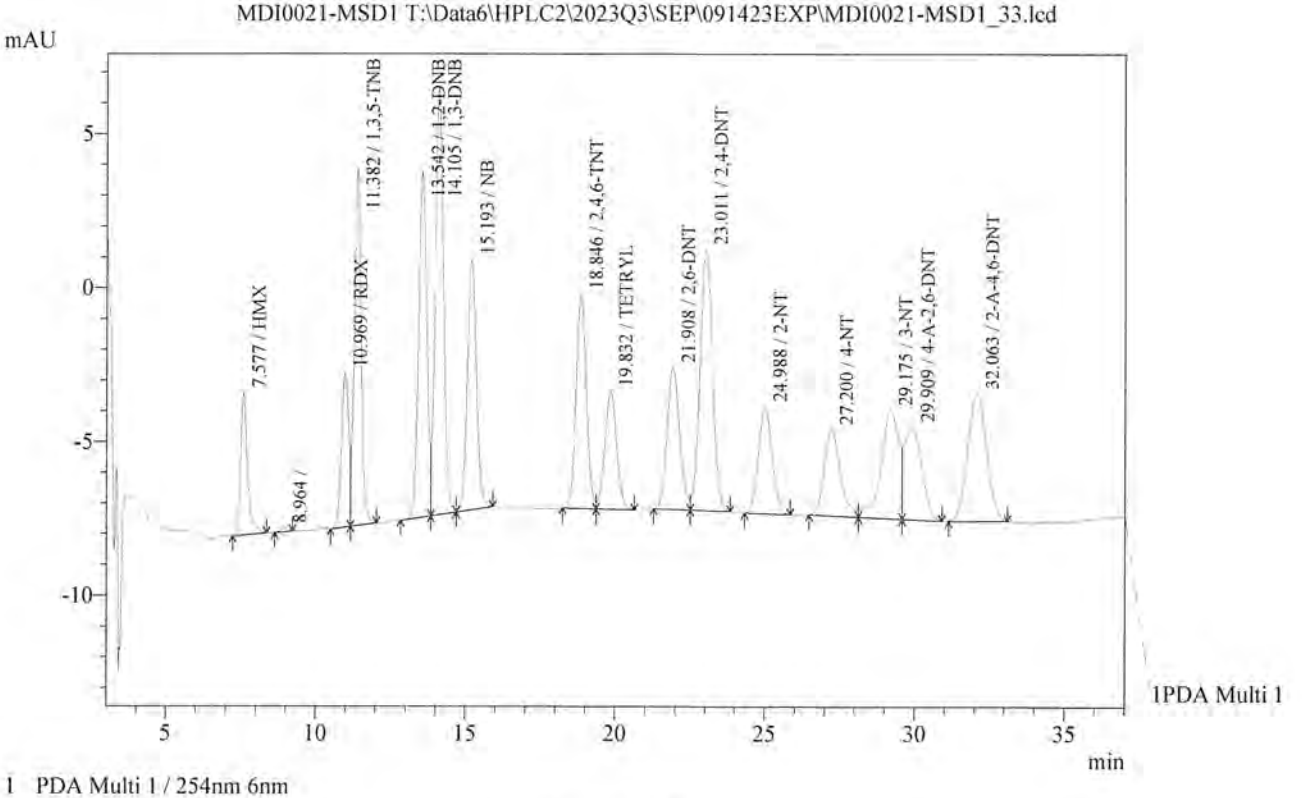
Sample Information

Acquired by	: Admin
Sample Name	: MDI0021-MSD1
Sample ID	:
Vail#	: 27
Injection Volume	: 100 uL
Data Filename	: MDI0021-MSD1_33.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXPDR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/15/2023 5:22:23 AM
Data Processed	: 9/18/2023 1:16:16 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

MDI0021-MSD1 T:\Data6\HPLC2\2023Q3\SEP\091423EXP\MDI0021-MSD1_33.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.577	74260	454.221	ppb	S
RDX	10.969	85931	476.401	ppb	
1,3,5-TNB	11.382	189682	423.053	ppb	V
1,2-DNB	13.542	212381	814.511	ppb	
1,3-DNB	14.105	271640	426.162	ppb	V
NB	15.193	170866	420.179	ppb	V
2,4,6-TNT	18.846	169542	430.314	ppb	
TETRYL	19.832	106253	438.712	ppb	V
2,6-DNT	21.908	135200	441.384	ppb	
2,4-DNT	23.011	250434	426.291	ppb	V
2-NT	24.988	111176	476.274	ppb	
4-NT	27.200	106610	442.482	ppb	S
4-A-2,6-DNT	29.909	123009	449.971	ppb	V
3-NT	29.175	148443	544.136	ppb	V
2-A-4,6-DNT	32.063	186760	444.631	ppb	V

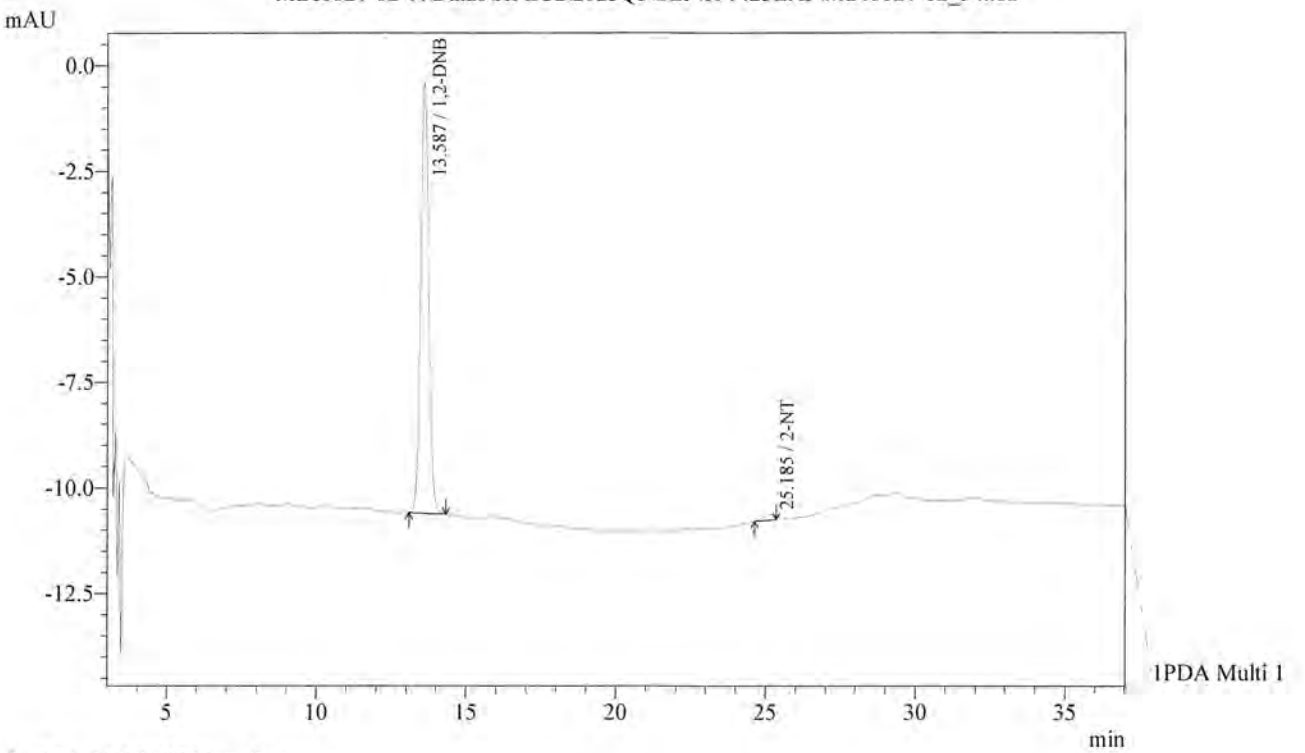
Sample Information

Acquired by	: Admin
Sample Name	: MDI0021-02
Sample ID	:
Vail#	: 28
Injection Volume	: 100 uL
Data Filename	: MDI0021-02_34.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXPDR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/15/2023 6:00:05 AM
Data Processed	: 9/18/2023 1:16:38 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

MDI0021-02 T:\Data6\HPLC2\2023Q3\SEP\091423EXP\MDI0021-02_34.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	0.000	0	0.000	ppb	V
RDX	0.000	0	0.000	ppb	V
1,3,5-TNB	0.000	0	0.000	ppb	V
1,2-DNB	13.587	195746	750.715	ppb	
1,3-DNB	0.000	0	0.000	ppb	V
NB	0.000	0	0.000	ppb	V
2,4,6-TNT	0.000	0	0.000	ppb	V
TETRYL	0.000	0	0.000	ppb	V
2,6-DNT	0.000	0	0.000	ppb	V
2,4-DNT	0.000	0	0.000	ppb	V
2-NT	25.185	3640	15.593	ppb	
4-NT	0.000	0	0.000	ppb	V
4-A-2,6-DNT	0.000	0	0.000	ppb	V
3-NT	0.000	0	0.000	ppb	V
2-A-4,6-DNT	0.000	0	0.000	ppb	V

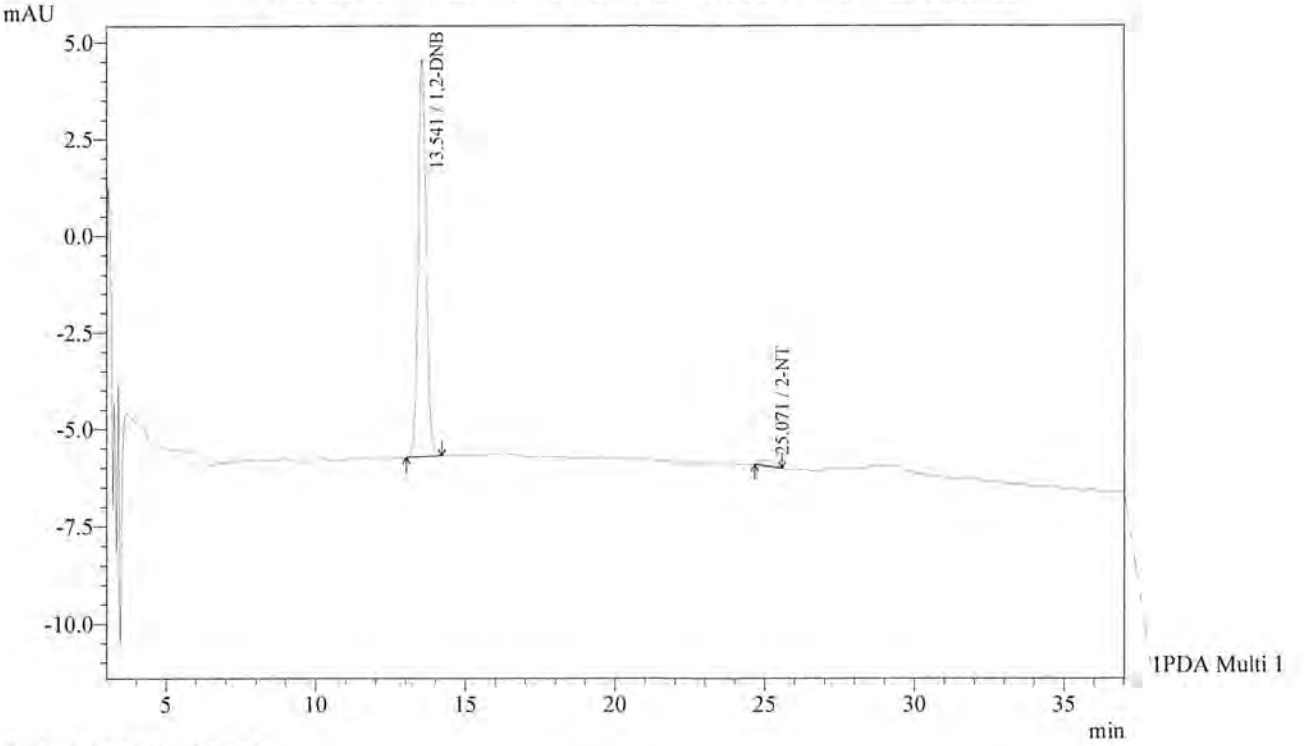
Sample Information

Acquired by	: Admin
Sample Name	: MDI0021-03
Sample ID	:
Vail#	: 29
Injection Volume	: 100 uL
Data Filename	: MDI0021-03_35.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXPDR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/15/2023 6:37:46 AM
Data Processed	: 9/18/2023 1:16:59 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

MDI0021-03 T:\Data6\HPLC2\2023Q3\SEP\091423EXP\MDI0021-03_35.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	0.000	0	0.000	ppb	V
RDX	0.000	0	0.000	ppb	V
1,3,5-TNB	0.000	0	0.000	ppb	V
1,2-DNB	13.541	196280	752.760	ppb	S
1,3-DNB	0.000	0	0.000	ppb	V
NB	0.000	0	0.000	ppb	V
2,4,6-TNT	0.000	0	0.000	ppb	V
TETRYL	0.000	0	0.000	ppb	V
2,6-DNT	0.000	0	0.000	ppb	V
2,4-DNT	0.000	0	0.000	ppb	V
2-NT	25.071	4564	19.553	ppb	
4-NT	0.000	0	0.000	ppb	V
4-A-2,6-DNT	0.000	0	0.000	ppb	V
3-NT	0.000	0	0.000	ppb	V
2-A-4,6-DNT	0.000	0	0.000	ppb	V

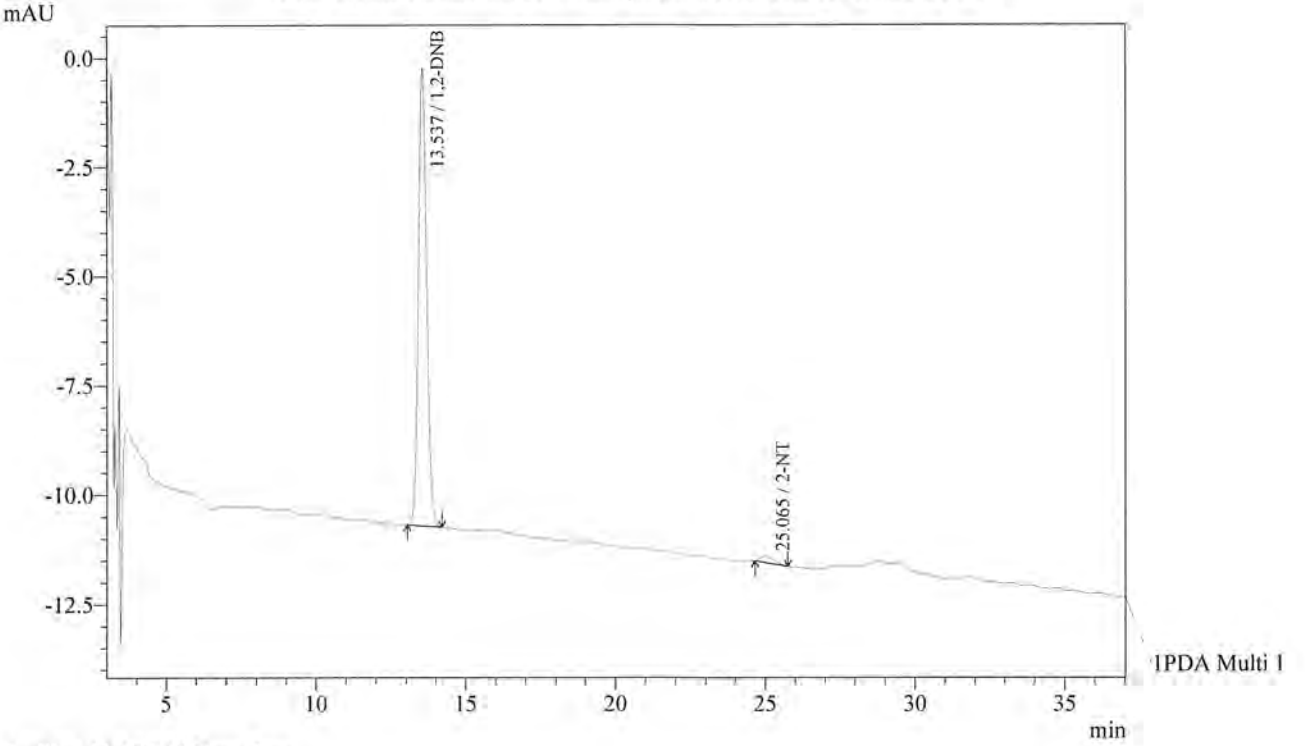
Sample Information

Acquired by	: Admin
Sample Name	: MDI0021-04
Sample ID	:
Vail#	: 30
Injection Volume	: 100 uL
Data Filename	: MDI0021-04_36.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXPDR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/15/2023 7:15:27 AM
Data Processed	: 9/18/2023 1:17:21 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

MDI0021-04 T:\Data6\HPLC2\2023Q3\SEP\091423EXP\MDI0021-04_36.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	0.000	0	0.000	ppb	V
RDX	0.000	0	0.000	ppb	V
1,3,5-TNB	0.000	0	0.000	ppb	V
1,2-DNB	13.537	199479	765.029	ppb	
1,3-DNB	0.000	0	0.000	ppb	V
NB	0.000	0	0.000	ppb	V
2,4,6-TNT	0.000	0	0.000	ppb	V
TETRYL	0.000	0	0.000	ppb	V
2,6-DNT	0.000	0	0.000	ppb	V
2,4-DNT	0.000	0	0.000	ppb	V
2-NT	25.065	4494	19.254	ppb	
4-NT	0.000	0	0.000	ppb	V
4-A-2,6-DNT	0.000	0	0.000	ppb	V
3-NT	0.000	0	0.000	ppb	V
2-A-4,6-DNT	0.000	0	0.000	ppb	V

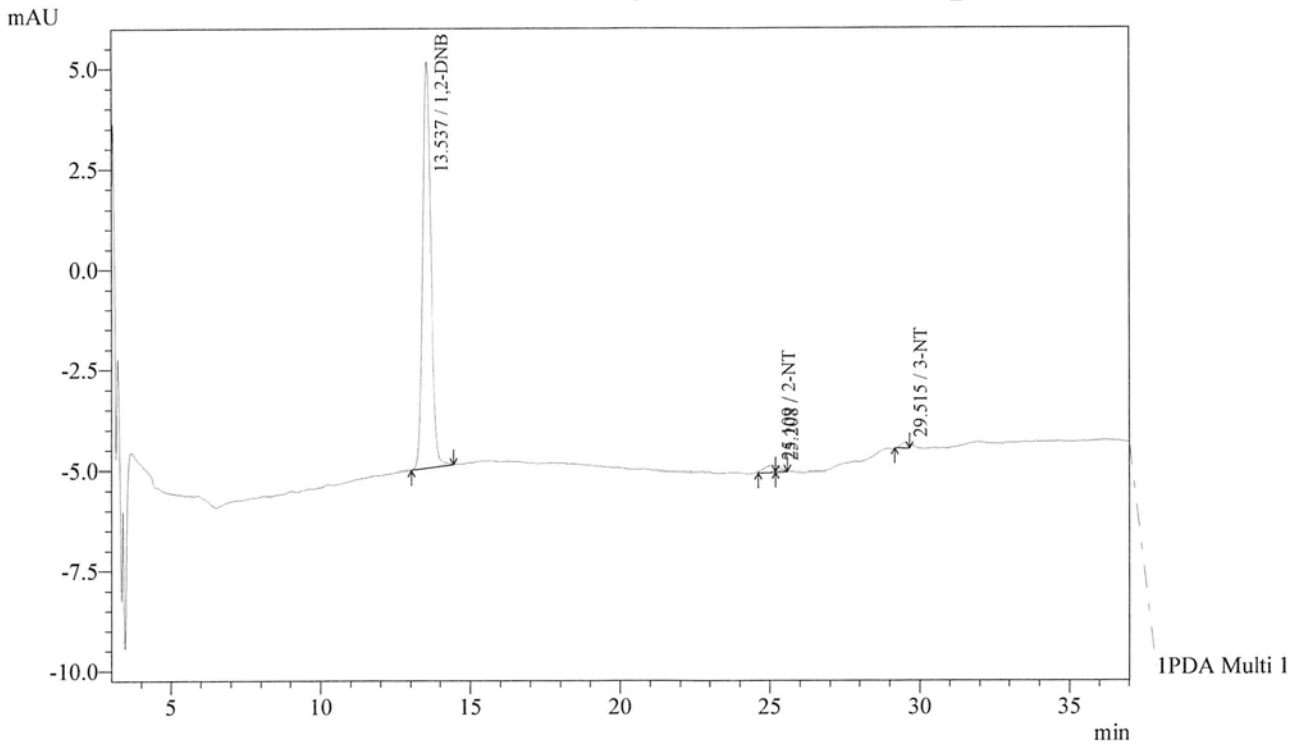
Sample Information

Acquired by	: Admin
Sample Name	: MDI0021-05
Sample ID	:
Vail#	: 31
Injection Volume	: 100 uL
Data Filename	: MDI0021-05_37.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXPDR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/15/2023 7:53:08 AM
Data Processed	: 9/18/2023 1:17:43 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

MDI0021-05 T:\Data6\HPLC2\2023Q3\SEP\091423EXP\MDI0021-05_37.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	0.000	0	0.000	ppb	V
RDX	0.000	0	0.000	ppb	V
1,3,5-TNB	0.000	0	0.000	ppb	V
1,2-DNB	13.537	196825	754.853	ppb	S
1,3-DNB	0.000	0	0.000	ppb	V
NB	0.000	0	0.000	ppb	V
2,4,6-TNT	0.000	0	0.000	ppb	V
TETRYL	0.000	0	0.000	ppb	V
2,6-DNT	0.000	0	0.000	ppb	V
2,4-DNT	0.000	0	0.000	ppb	V
2-NT	25.109	4062	17.401	ppb	V
4-NT	0.000	0	0.000	ppb	V
4-A-2,6-DNT	0.000	0	0.000	ppb	V
3-NT	29.515	2455	8.998	ppb	
2-A-4,6-DNT	0.000	0	0.000	ppb	V

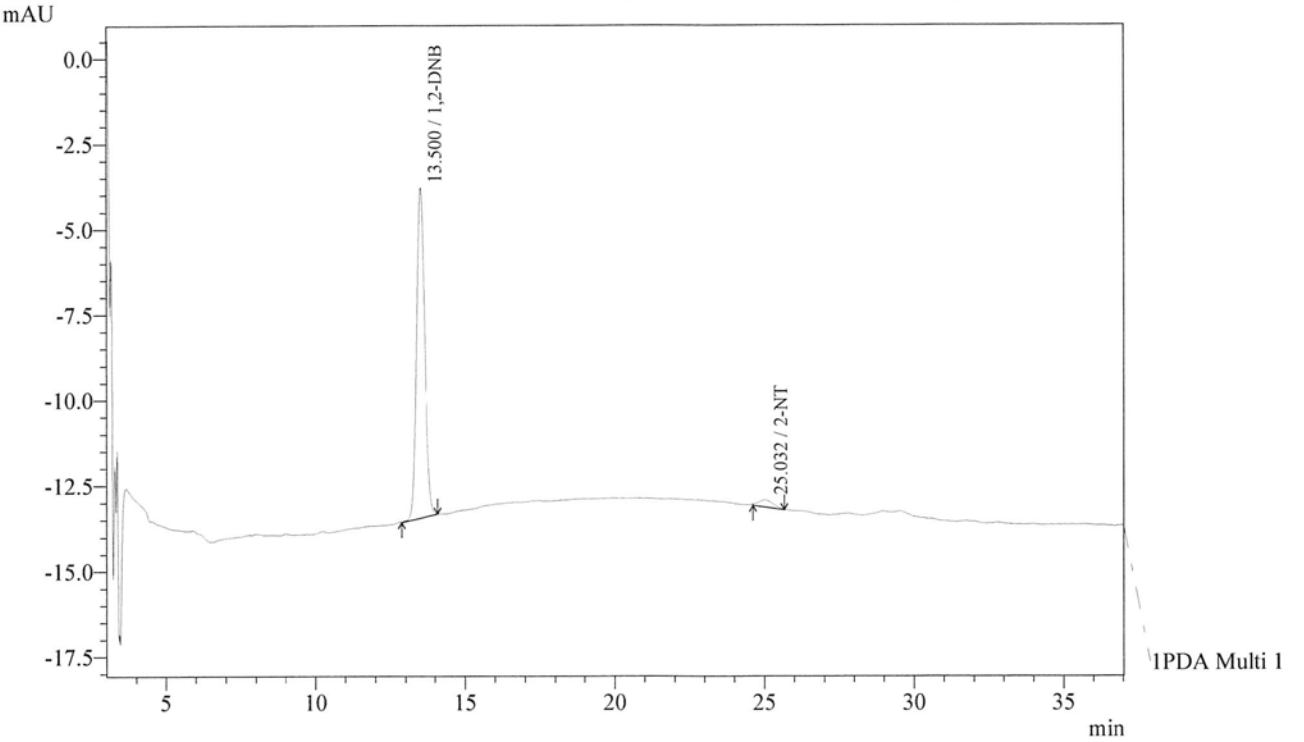
Sample Information

Acquired by	: Admin
Sample Name	: MDI0021-06
Sample ID	:
Vail#	: 32
Injection Volume	: 100 uL
Data Filename	: MDI0021-06_38.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXPDR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/15/2023 8:30:47 AM
Data Processed	: 9/18/2023 1:18:05 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

MDI0021-06 T:\Data6\HPLC2\2023Q3\SEP\091423EXP\MDI0021-06_38.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	0.000	0	0.000	ppb	V
RDX	0.000	0	0.000	ppb	V
1,3,5-TNB	0.000	0	0.000	ppb	V
1,2-DNB	13.500	185735	712.322	ppb	V
1,3-DNB	0.000	0	0.000	ppb	V
NB	0.000	0	0.000	ppb	V
2,4,6-TNT	0.000	0	0.000	ppb	V
TETRYL	0.000	0	0.000	ppb	V
2,6-DNT	0.000	0	0.000	ppb	V
2,4-DNT	0.000	0	0.000	ppb	V
2-NT	25.032	6985	29.922	ppb	V
4-NT	0.000	0	0.000	ppb	V
4-A-2,6-DNT	0.000	0	0.000	ppb	V
3-NT	0.000	0	0.000	ppb	V
2-A-4,6-DNT	0.000	0	0.000	ppb	V

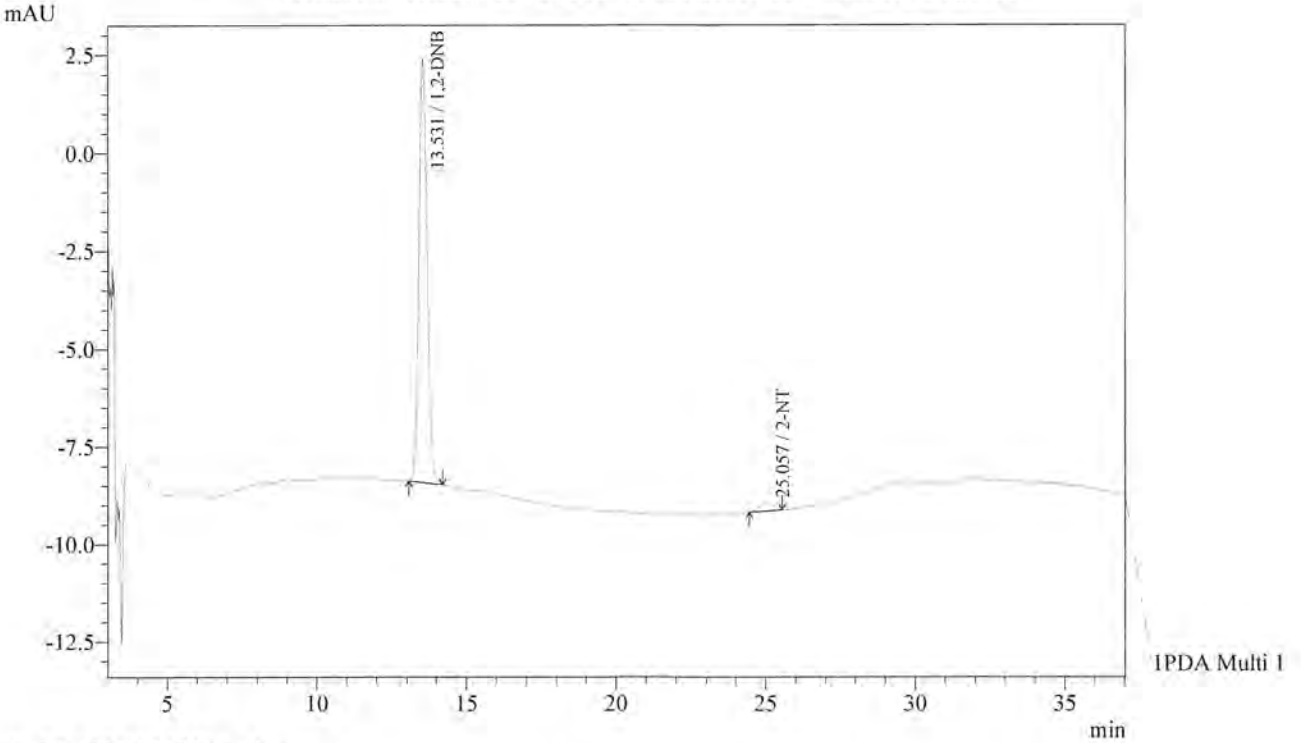
Sample Information

Acquired by	: Admin
Sample Name	: MDI0021-07
Sample ID	:
Vail#	: 33
Injection Volume	: 100 uL
Data Filename	: MDI0021-07_39.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXPDR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/15/2023 9:08:28 AM
Data Processed	: 9/18/2023 1:18:27 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

MDI0021-07 T:\Data6\HPLC2\2023Q3\SEP\091423EXP\MDI0021-07_39.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	0.000	0	0.000	ppb	V
RDX	0.000	0	0.000	ppb	V
1,3,5-TNB	0.000	0	0.000	ppb	V
1,2-DNB	13.531	207539	795.940	ppb	
1,3-DNB	0.000	0	0.000	ppb	V
NB	0.000	0	0.000	ppb	V
2,4,6-TNT	0.000	0	0.000	ppb	V
TETRYL	0.000	0	0.000	ppb	V
2,6-DNT	0.000	0	0.000	ppb	V
2,4-DNT	0.000	0	0.000	ppb	V
2-NT	25.057	6665	28.552	ppb	
4-NT	0.000	0	0.000	ppb	V
4-A-2,6-DNT	0.000	0	0.000	ppb	V
3-NT	0.000	0	0.000	ppb	V
2-A-4,6-DNT	0.000	0	0.000	ppb	V

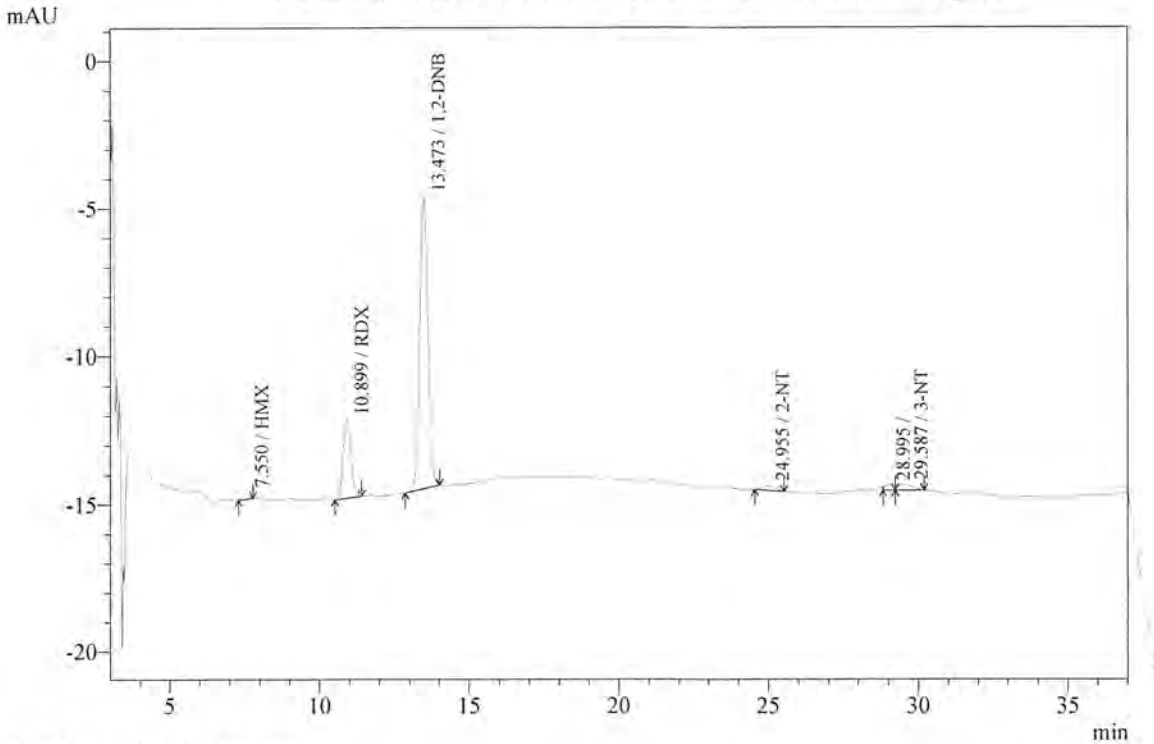
Sample Information

Acquired by	: Admin
Sample Name	: MDI0022-01
Sample ID	:
Vail#	: 34
Injection Volume	: 100 uL
Data Filename	: MDI0022-01_40.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXPDR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/15/2023 9:46:07 AM
Data Processed	: 9/18/2023 1:18:49 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

MDI0022-01 T:\Data6\HPLC2\2023Q3\SEP\091423EXP\MDI0022-01_40.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.550	2825	17.282	ppb	
RDX	10.899	47579	263.780	ppb	
1,3,5-TNB	0.000	0	0.000	ppb	V
1,2-DNB	13.473	189235	725.743	ppb	V
1,3-DNB	0.000	0	0.000	ppb	V
NB	0.000	0	0.000	ppb	V
2,4,6-TNT	0.000	0	0.000	ppb	V
TETRYL	0.000	0	0.000	ppb	V
2,6-DNT	0.000	0	0.000	ppb	V
2,4-DNT	0.000	0	0.000	ppb	V
2-NT	24.955	4751	20.354	ppb	
4-NT	0.000	0	0.000	ppb	V
4-A-2,6-DNT	0.000	0	0.000	ppb	V
3-NT	29.587	7026	25.755	ppb	V
2-A-4,6-DNT	0.000	0	0.000	ppb	V

* HMX/RDX confirmed w/ LCMSMS.

MDK 9/20/23

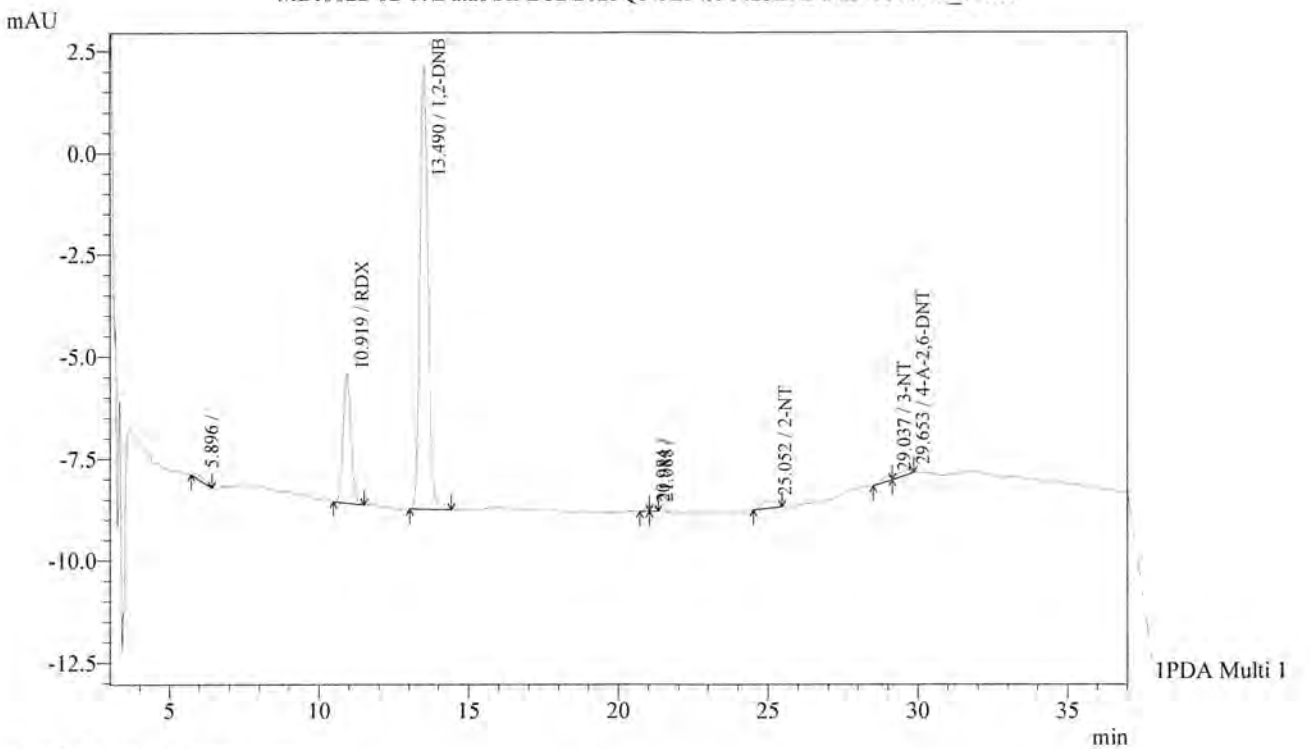
Sample Information

Acquired by	: Admin
Sample Name	: MDI0022-02
Sample ID	:
Vail#	: 35
Injection Volume	: 100 uL
Data Filename	: MDI0022-02_41.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXPDR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/15/2023 10:23:46 AM
Data Processed	: 9/18/2023 1:19:13 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

MDI0022-02 T:\Data6\HPLC2\2023Q3\SEP\091423EXP\MDI0022-02_41.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	0.000	0	0.000	ppb	V
RDX	10.919	57167	316.933	ppb	
1,3,5-TNB	0.000	0	0.000	ppb	V
1,2-DNB	13.490	206646	792.515	ppb	
1,3-DNB	0.000	0	0.000	ppb	V
NB	0.000	0	0.000	ppb	V
2,4,6-TNT	0.000	0	0.000	ppb	V
TETRYL	0.000	0	0.000	ppb	V
2,6-DNT	0.000	0	0.000	ppb	V
2,4-DNT	0.000	0	0.000	ppb	V
2-NT	25.052	6065	25.983	ppb	V
4-NT	0.000	0	0.000	ppb	V
4-A-2,6-DNT	29.653	4143	15.157	ppb	V
3-NT	29.037	3120	11.436	ppb	
2-A-4,6-DNT	0.000	0	0.000	ppb	V

* RDX confirmed w/ LCMSMS. See appended packet.

MDR 9/20/23

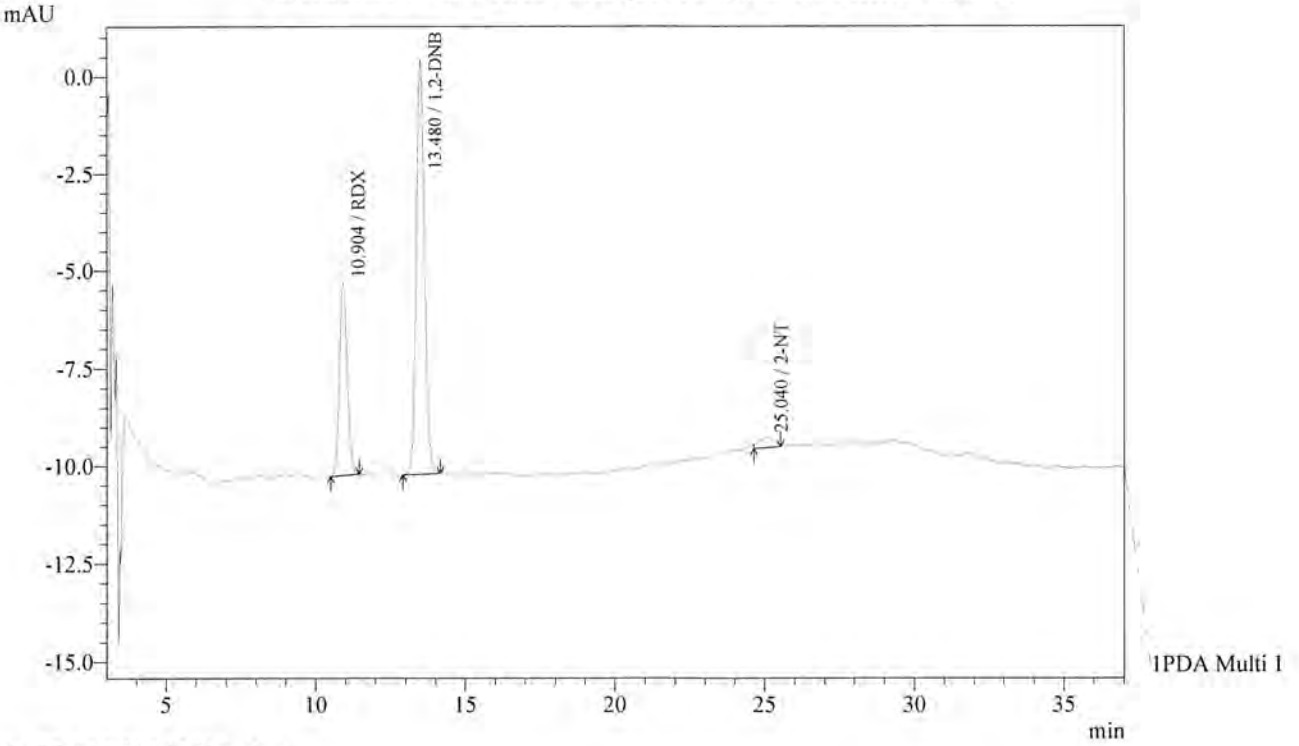
Sample Information

Acquired by	: Admin
Sample Name	: MDI0022-03
Sample ID	:
Vail#	: 36
Injection Volume	: 100 uL
Data Filename	: MDI0022-03_42.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXPDR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/15/2023 11:01:25 AM
Data Processed	: 9/18/2023 1:19:35 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

MDI0022-03 T:\Data6\HPLC2\2023Q3\SEP\091423EXP\MDI0022-03_42.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	0.000	0	0.000	ppb	V
RDX	10.904	89302	495.095	ppb	
1,3,5-TNB	0.000	0	0.000	ppb	V
1,2-DNB	13.480	203570	780.721	ppb	
1,3-DNB	0.000	0	0.000	ppb	V
NB	0.000	0	0.000	ppb	V
2,4,6-TNT	0.000	0	0.000	ppb	V
TETRYL	0.000	0	0.000	ppb	V
2,6-DNT	0.000	0	0.000	ppb	V
2,4-DNT	0.000	0	0.000	ppb	V
2-NT	25.040	9095	38.963	ppb	V
4-NT	0.000	0	0.000	ppb	V
4-A-2,6-DNT	0.000	0	0.000	ppb	V
3-NT	0.000	0	0.000	ppb	V
2-A-4,6-DNT	0.000	0	0.000	ppb	V

* RDX confirmed w/ LCMSMS. See appended data.

MDR 9/20/23

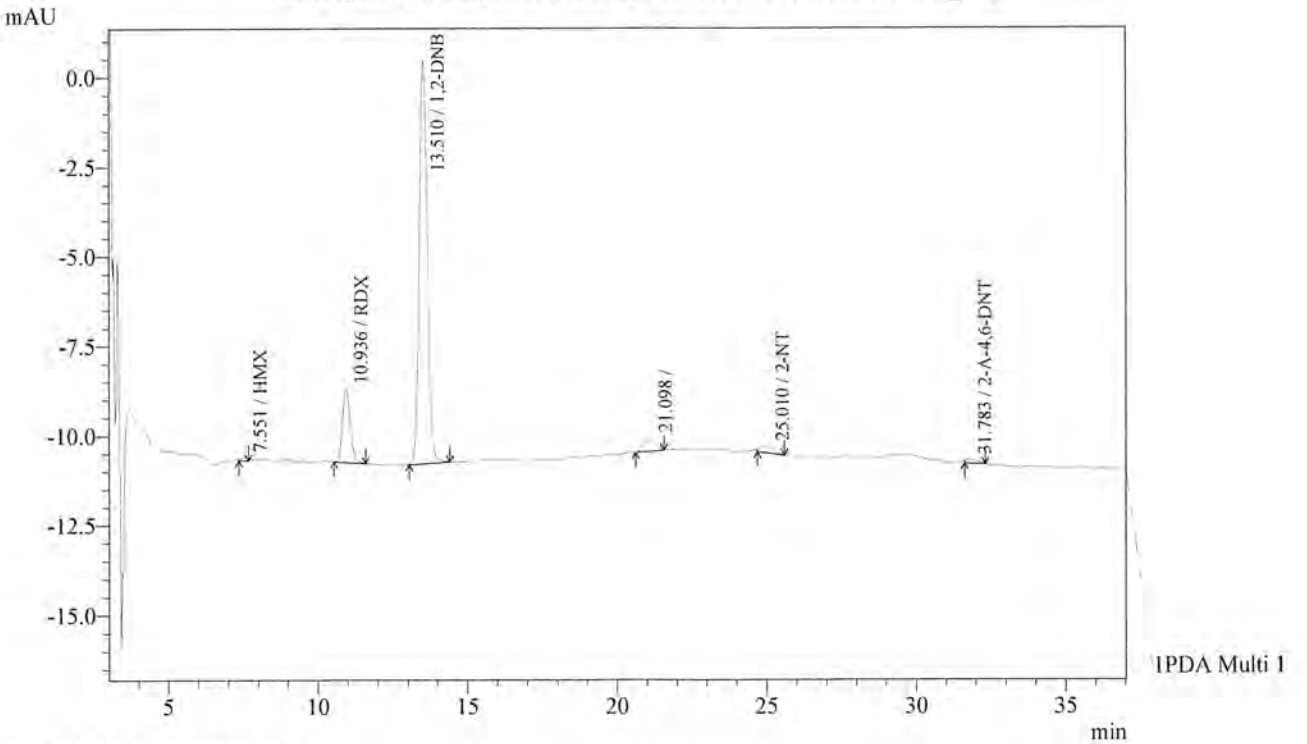
Sample Information

Acquired by	: Admin
Sample Name	: MDI0022-04
Sample ID	:
Vail#	: 37
Injection Volume	: 100 uL
Data Filename	: MDI0022-04_43.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXPDR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/15/2023 11:39:06 AM
Data Processed	: 9/18/2023 1:19:57 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

MDI0022-04 T:\Data6\HPLC2\2023Q3\SEP\091423EXP\MDI0022-04_43.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.551	1410	8.626	ppb	V
RDX	10.936	37423	207.473	ppb	
1,3,5-TNB	0.000	0	0.000	ppb	V
1,2-DNB	13.510	215834	827.753	ppb	SV
1,3-DNB	0.000	0	0.000	ppb	V
NB	0.000	0	0.000	ppb	V
2,4,6-TNT	0.000	0	0.000	ppb	V
TETRYL	0.000	0	0.000	ppb	V
2,6-DNT	0.000	0	0.000	ppb	V
2,4-DNT	0.000	0	0.000	ppb	V
2-NT	25.010	5467	23.419	ppb	V
4-NT	0.000	0	0.000	ppb	V
4-A-2,6-DNT	0.000	0	0.000	ppb	V
3-NT	0.000	0	0.000	ppb	V
2-A-4,6-DNT	31.783	3162	7.528	ppb	V

* RDX confirmed w/ LCMSMS see appended data.
MBK 9/20/23

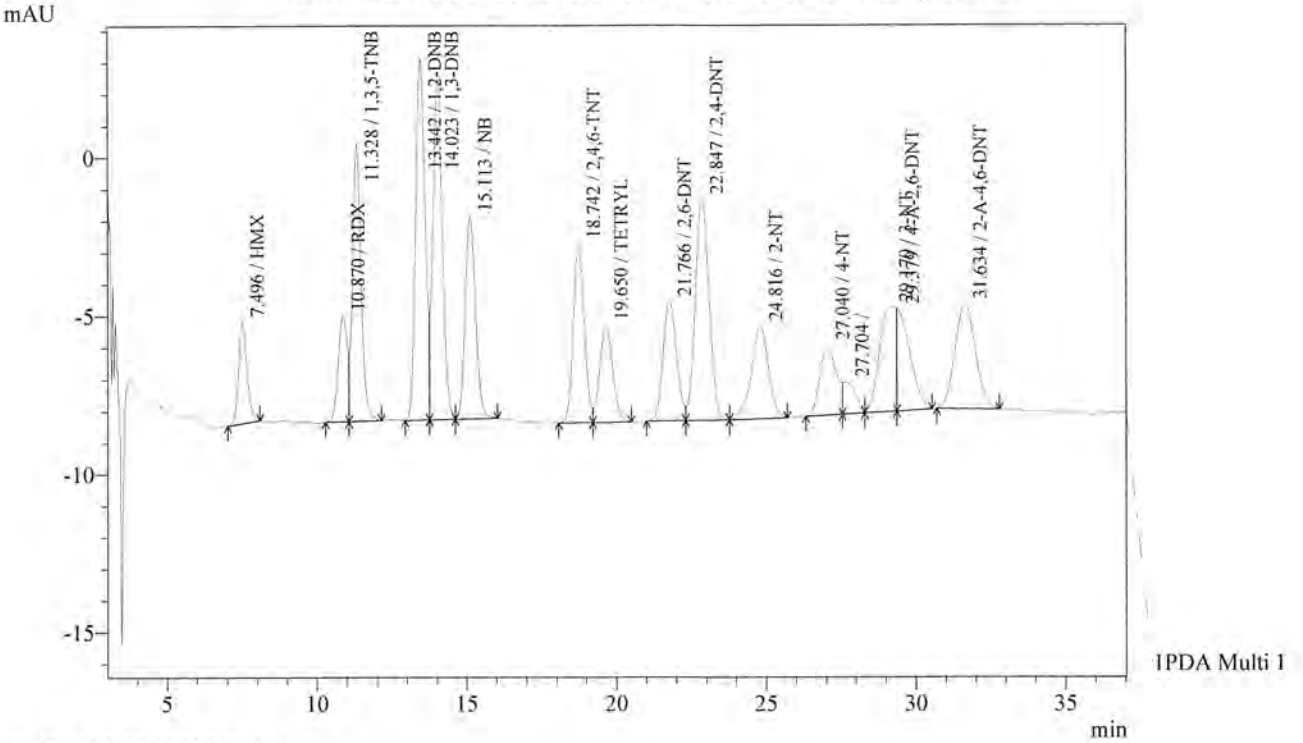
Sample Information

Acquired by	: Admin
Sample Name	: CCV 400 ppb
Sample ID	:
Vail#	: 4
Injection Volume	: 100 uL
Data Filename	: CCV 400 ppb_44.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXPDR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/15/2023 12:16:46 PM
Data Processed	: 9/18/2023 1:20:19 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

CCV 400 ppb T:\Data6\HPLC2\2023Q3\SEP\091423EXP\CCV 400 ppb_44.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.496	62374	381.518	ppb	
RDX	10.870	70950	393.347	ppb	
1,3,5-TNB	11.328	171882	383.353	ppb	V
1,2-DNB	13.442	251852	965.886	ppb	
1,3-DNB	14.023	243695	382.320	ppb	V
NB	15.113	153519	377.522	ppb	SV
2,4,6-TNT	18.742	148616	377.202	ppb	
TETRYL	19.650	91692	378.590	ppb	V
2,6-DNT	21.766	118305	386.228	ppb	
2,4-DNT	22.847	224739	382.552	ppb	V
2-NT	24.816	114863	492.069	ppb	
4-NT	27.040	84037	348.791	ppb	
4-A-2,6-DNT	29.379	96441	352.782	ppb	V
3-NT	29.170	125001	458.207	ppb	V
2-A-4,6-DNT	31.634	155883	371.121	ppb	

Sample Information

Acquired by	: Admin
Sample Name	: BDI0064-BLK1
Sample ID	:
Vail#	: 38
Injection Volume	: 100 uL
Data Filename	: BDI0064-BLK1_7.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXP2DR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/15/2023 2:46:57 PM
Data Processed	: 9/18/2023 1:47:09 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

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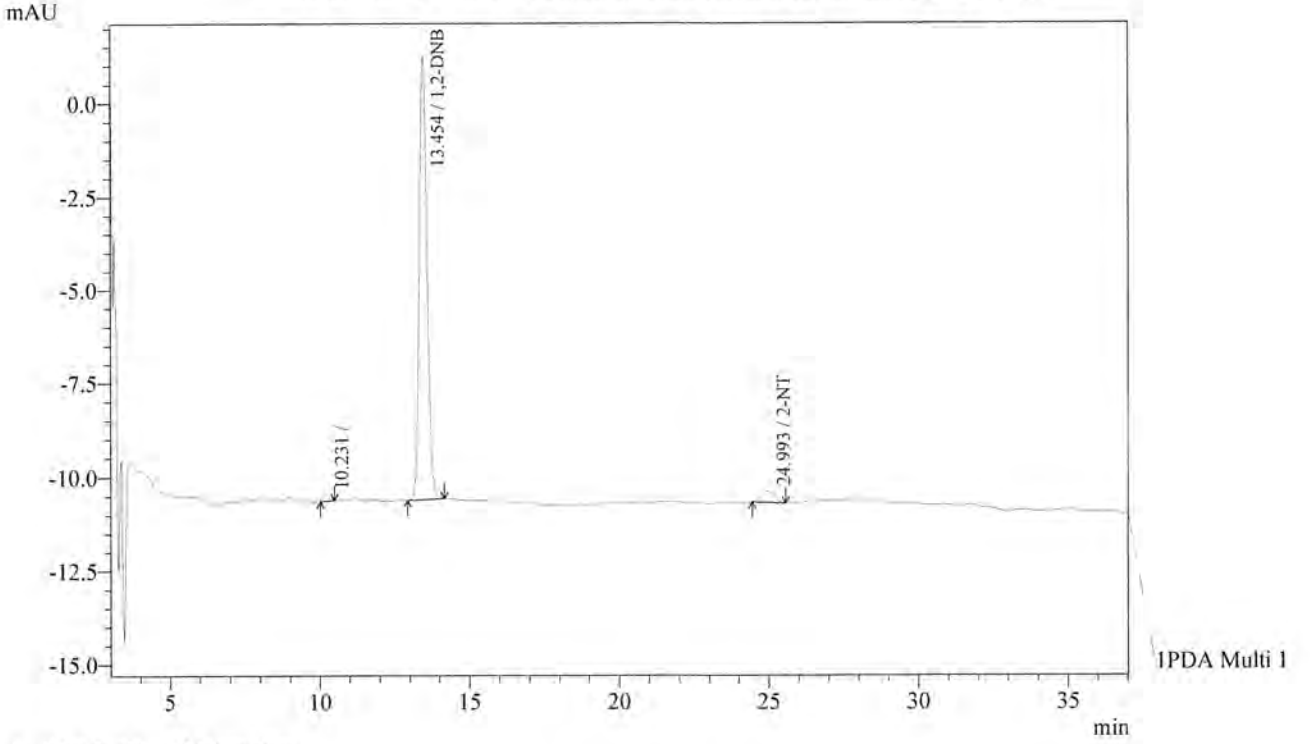

1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	0.000	0	0.000	ppb	V
RDX	0.000	0	0.000	ppb	V
1,3,5-TNB	0.000	0	0.000	ppb	V
1,2-DNB	13.454	212108	813.462	ppb	
1,3-DNB	0.000	0	0.000	ppb	V
NB	0.000	0	0.000	ppb	V
2,4,6-TNT	0.000	0	0.000	ppb	V
TETRYL	0.000	0	0.000	ppb	V
2,6-DNT	0.000	0	0.000	ppb	V
2,4-DNT	0.000	0	0.000	ppb	V
2-NT	24.993	9854	42.216	ppb	
4-NT	0.000	0	0.000	ppb	V
4-A-2,6-DNT	0.000	0	0.000	ppb	V
3-NT	0.000	0	0.000	ppb	V
2-A-4,6-DNT	0.000	0	0.000	ppb	V

Sample Information

Acquired by	: Admin
Sample Name	: BDI0064-~~BS1~~ BS2
Sample ID	:
Vail#	: 39
Injection Volume	: 100 uL
Data Filename	: BDI0064-BS1_8.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXP2DR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/15/2023 3:24:38 PM
Data Processed	: 9/18/2023 1:47:31 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

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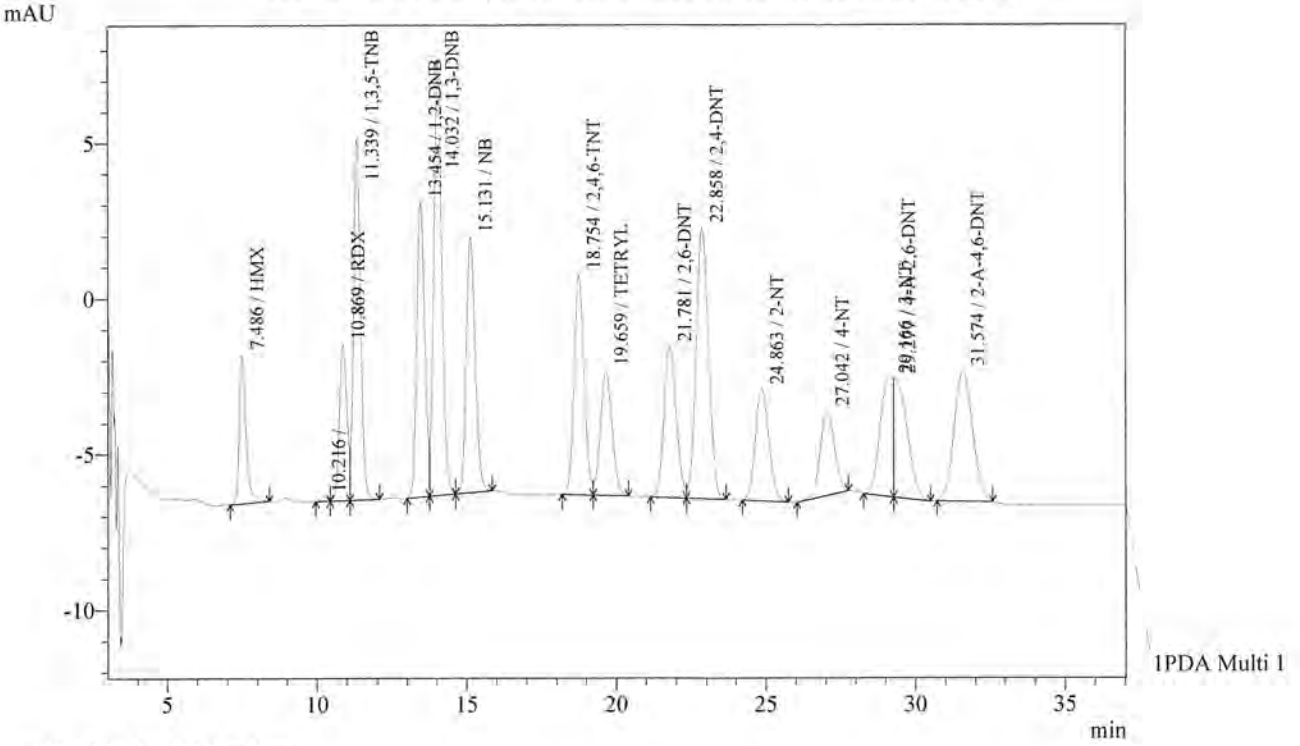


1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.486	75506	461.844	ppb	S
RDX	10.869	88426	490.237	ppb	V
1,3,5-TNB	11.339	188021	419.347	ppb	V
1,2-DNB	13.454	176780	677.975	ppb	
1,3-DNB	14.032	272246	427.111	ppb	V
NB	15.131	169373	416.507	ppb	V
2,4,6-TNT	18.754	170396	432.483	ppb	
TETRYL	19.659	108027	446.037	ppb	V
2,6-DNT	21.781	137676	449.468	ppb	V
2,4-DNT	22.858	252442	429.709	ppb	V
2-NT	24.863	112423	481.618	ppb	
4-NT	27.042	90513	375.670	ppb	
4-A-2,6-DNT	29.277	116005	424.347	ppb	SV
3-NT	29.166	113078	414.503	ppb	
2-A-4,6-DNT	31.574	179508	427.366	ppb	

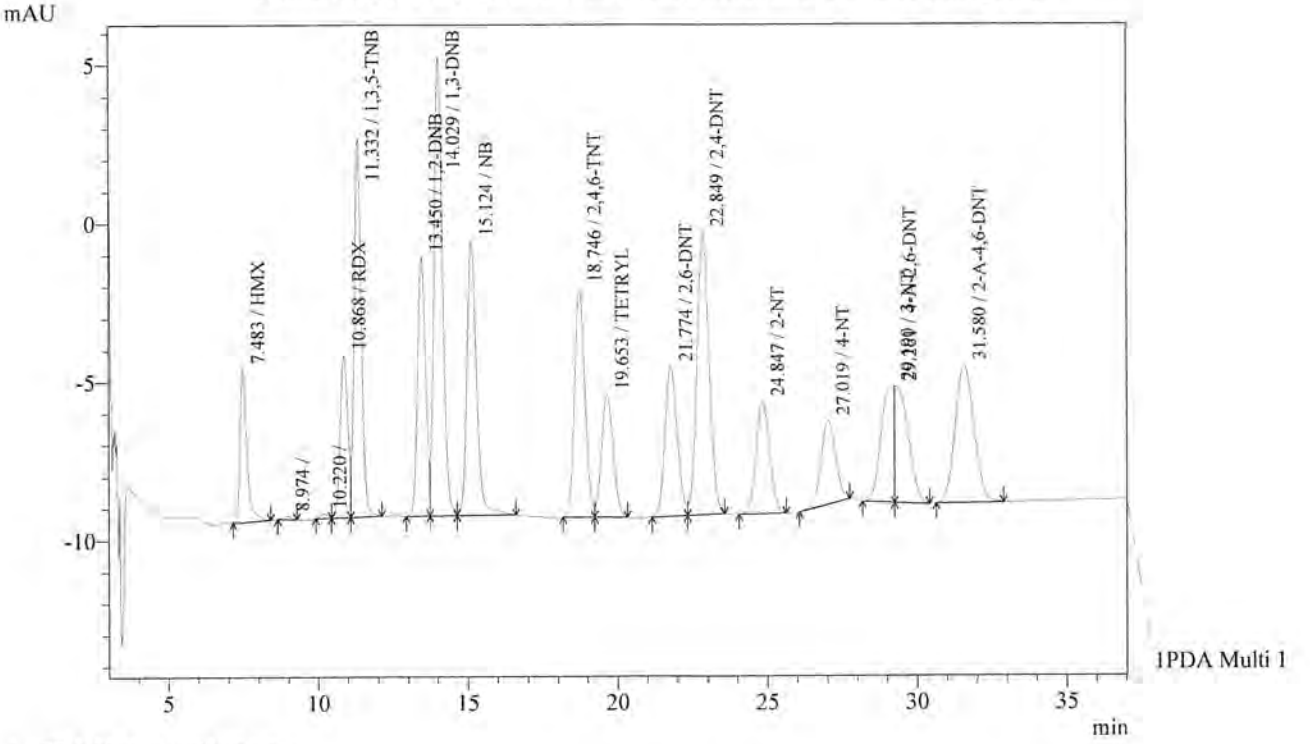
Sample Information

Acquired by	: Admin
Sample Name	: BDI0064-~~BSD1~~ BSD 2
Sample ID	:
Vail#	: 40
Injection Volume	: 100 uL
Data Filename	: BDI0064-BSD1_9.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXP2DR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/15/2023 4:02:19 PM
Data Processed	: 9/18/2023 1:47:53 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

BDI0064-BSD1 T:\Data6\HPLC2\2023Q3\SEP\091423EXP\BDI0064-BSD1_9.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.483	77947	476.772	ppb	SV
RDX	10.868	90921	504.066	ppb	V
1,3,5-TNB	11.332	196018	437.185	ppb	V
1,2-DNB	13.450	154983	594.382	ppb	
1,3-DNB	14.029	285444	447.818	ppb	V
NB	15.124	192498	473.376	ppb	SV
2,4,6-TNT	18.746	175215	444.714	ppb	
TETRYL	19.653	104173	430.123	ppb	V
2,6-DNT	21.774	135538	442.487	ppb	V
2,4-DNT	22.849	261040	444.344	ppb	V
2-NT	24.847	111802	478.958	ppb	
4-NT	27.019	90325	374.891	ppb	
4-A-2,6-DNT	29.261	113551	415.373	ppb	SV
3-NT	29.190	109755	402.322	ppb	
2-A-4,6-DNT	31.580	191368	455.600	ppb	S

Sample Information

Acquired by	: Admin
Sample Name	: MDI0024-01
Sample ID	:
Vail#	: 41
Injection Volume	: 100 uL
Data Filename	: MDI0024-01_10.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXP2DR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/15/2023 4:40:00 PM
Data Processed	: 9/18/2023 1:48:15 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

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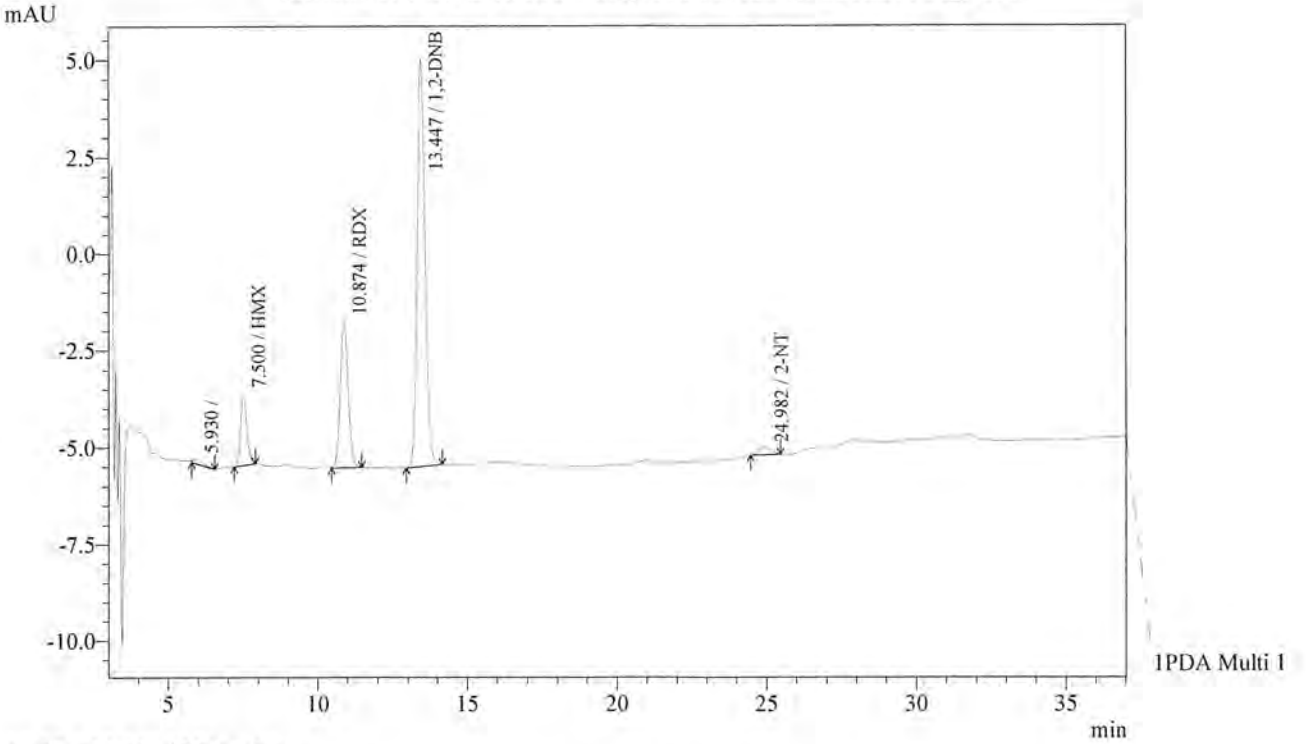


1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.500	26966	164.941	ppb	
RDX	10.874	69112	383.156	ppb	V
1,3,5-TNB	0.000	0	0.000	ppb	V
1,2-DNB	13.447	199933	766.770	ppb	
1,3-DNB	0.000	0	0.000	ppb	V
NB	0.000	0	0.000	ppb	V
2,4,6-TNT	0.000	0	0.000	ppb	V
TETRYL	0.000	0	0.000	ppb	V
2,6-DNT	0.000	0	0.000	ppb	V
2,4-DNT	0.000	0	0.000	ppb	V
2-NT	24.982	5818	24.926	ppb	
4-NT	0.000	0	0.000	ppb	V
4-A-2,6-DNT	0.000	0	0.000	ppb	V
3-NT	0.000	0	0.000	ppb	V
2-A-4,6-DNT	0.000	0	0.000	ppb	V

* HMX/RDX confirmed w/ LCMSMS. See appended data.
MDL 9/20/23

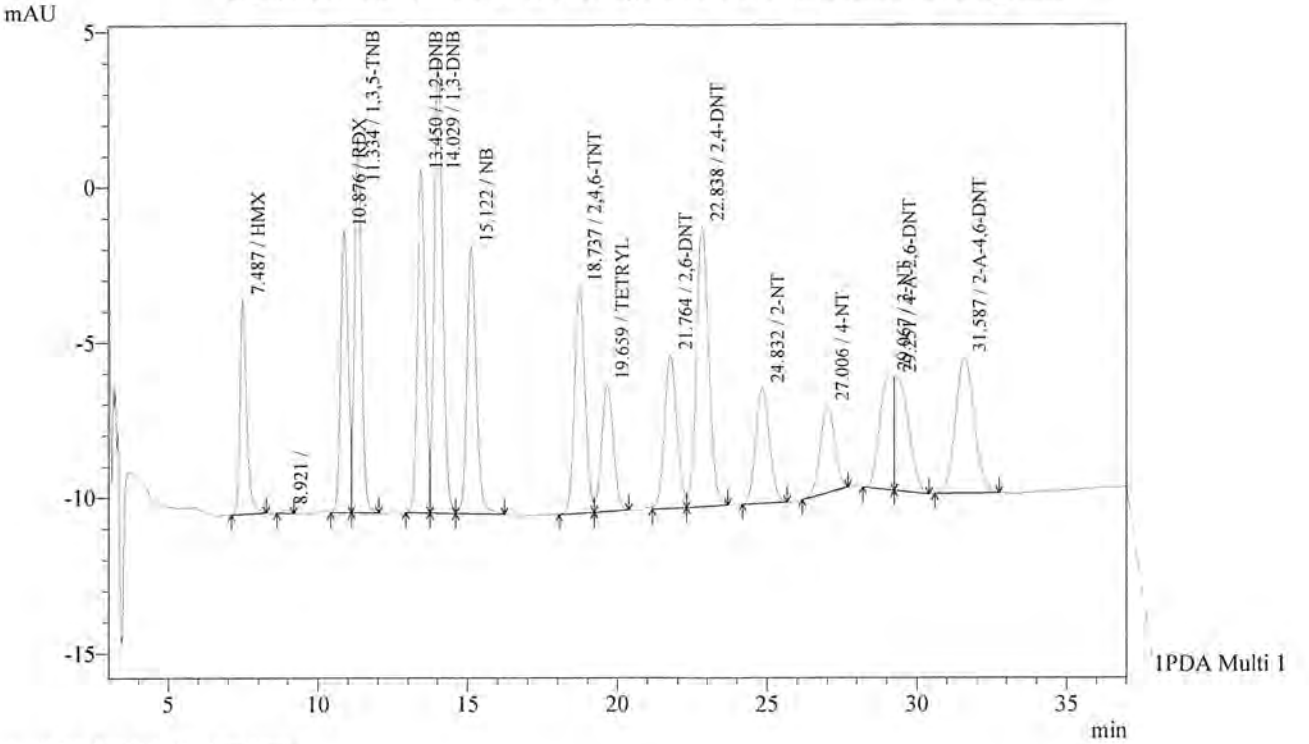
Sample Information

Acquired by	: Admin
Sample Name	: MDI0024-01~~MS1~~ .
Sample ID	: BDI0064-MS2
Vail#	: 42
Injection Volume	: 100 uL
Data Filename	: MDI0024-01MS1_11.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXP2DR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/15/2023 5:17:40 PM
Data Processed	: 9/18/2023 1:48:36 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

MDI0024-01MS1 T:\Data6\HPLC2\2023Q3\SEP\091423EXP\MDI0024-01MS1_11.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.487	106715	652.737	ppb	
RDX	10.876	159402	883.727	ppb	V
1,3,5-TNB	11.334	197137	439.680	ppb	V
1,2-DNB	13.450	210069	805.645	ppb	
1,3-DNB	14.029	286639	449.691	ppb	V
NB	15.122	185329	455.746	ppb	SV
2,4,6-TNT	18.737	177807	451.292	ppb	
TETRYL	19.659	110917	457.969	ppb	V
2,6-DNT	21.764	143170	467.403	ppb	V
2,4-DNT	22.838	265953	452.708	ppb	V
2-NT	24.832	118213	506.422	ppb	
4-NT	27.006	95377	395.857	ppb	
4-A-2,6-DNT	29.251	117065	428.225	ppb	V
3-NT	29.067	116956	428.716	ppb	
2-A-4,6-DNT	31.587	191764	456.543	ppb	

Sample Information

Acquired by	: Admin
Sample Name	: MDI0024-01~~MSD1~~ MSD2
Sample ID	: BDI0024-MSD2
Vail#	: 43
Injection Volume	: 100 uL
Data Filename	: MDI0024-01MSD1_12.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXP2DR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/15/2023 5:55:24 PM
Data Processed	: 9/18/2023 1:49:00 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

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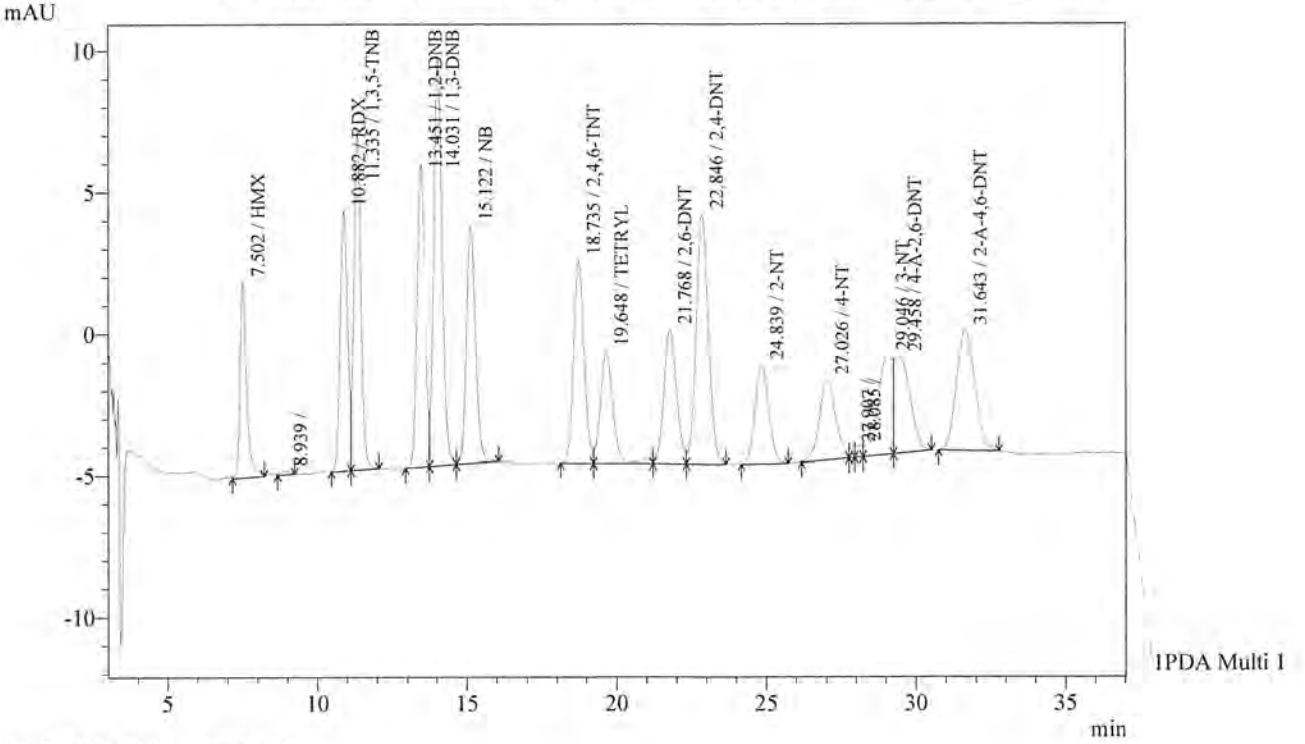

1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.502	107035	654.693	ppb	V
RDX	10.882	160130	887.765	ppb	V
1,3,5-TNB	11.335	192632	429.631	ppb	V
1,2-DNB	13.451	200571	769.218	ppb	
1,3-DNB	14.031	281018	440.874	ppb	V
NB	15.122	177786	437.196	ppb	SV
2,4,6-TNT	18.735	175467	445.353	ppb	
TETRYL	19.648	116047	479.150	ppb	SV
2,6-DNT	21.768	140288	457.994	ppb	V
2,4-DNT	22.846	260681	443.734	ppb	V
2-NT	24.839	112554	482.180	ppb	S
4-NT	27.026	109500	454.477	ppb	V
4-A-2,6-DNT	29.458	125389	458.676	ppb	V
3-NT	29.046	118913	435.891	ppb	V
2-A-4,6-DNT	31.643	184559	439.390	ppb	

Sample Information

Acquired by	: Admin
Sample Name	: MDI0024-02
Sample ID	:
Vail#	: 44
Injection Volume	: 100 uL
Data Filename	: MDI0024-02_13.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXP2DR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/15/2023 6:33:05 PM
Data Processed	: 9/18/2023 1:49:22 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

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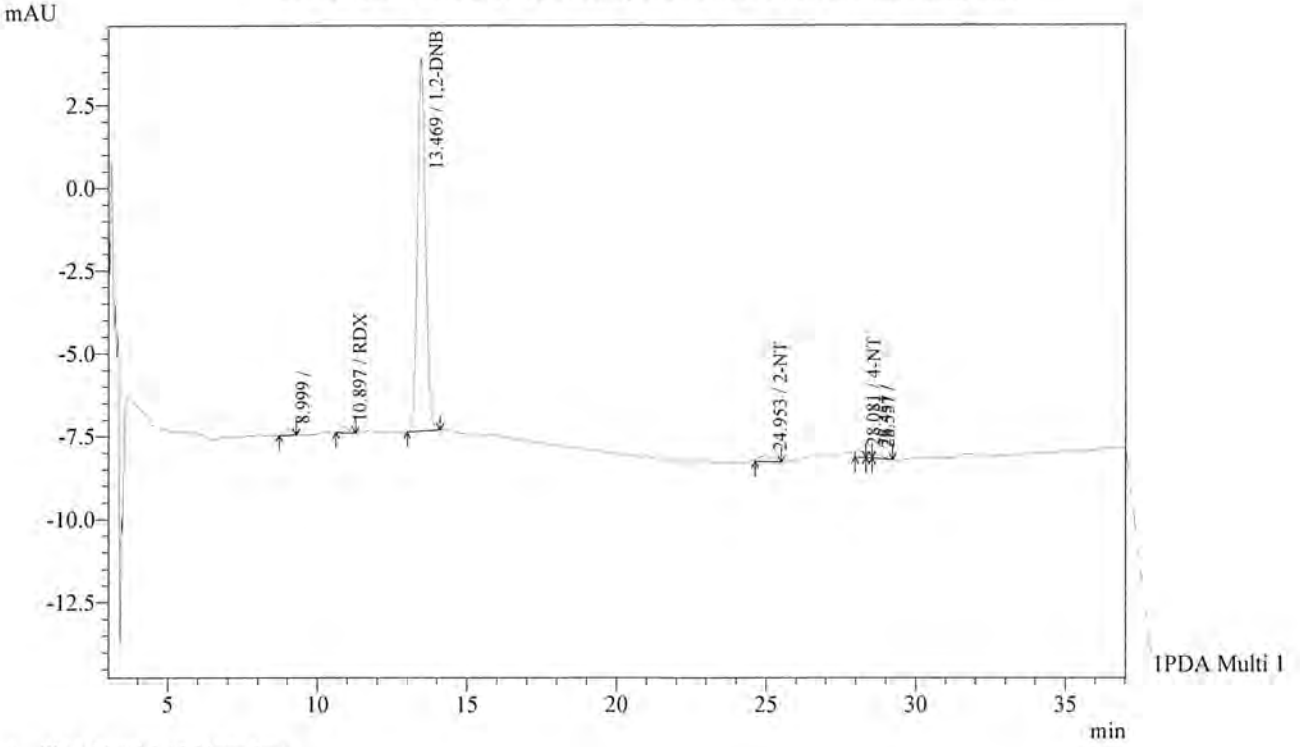

1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	0.000	0	0.000	ppb	V
RDX	10.897	3534	19.595	ppb	
1,3,5-TNB	0.000	0	0.000	ppb	V
1,2-DNB	13.469	212175	813.723	ppb	
1,3-DNB	0.000	0	0.000	ppb	V
NB	0.000	0	0.000	ppb	V
2,4,6-TNT	0.000	0	0.000	ppb	V
TETRYL	0.000	0	0.000	ppb	V
2,6-DNT	0.000	0	0.000	ppb	V
2,4-DNT	0.000	0	0.000	ppb	V
2-NT	24.953	5736	24.572	ppb	V
4-NT	28.081	3805	15.794	ppb	V
4-A-2,6-DNT	0.000	0	0.000	ppb	V
3-NT	0.000	0	0.000	ppb	V
2-A-4,6-DNT	0.000	0	0.000	ppb	V

* RDX confirmed w/ LCMSMS. See appended data.

MDR 9/20/23

Sample Information

Acquired by	: Admin
Sample Name	: MDI0024-03
Sample ID	:
Vail#	: 45
Injection Volume	: 100 uL
Data Filename	: MDI0024-03_14.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXP2DR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/15/2023 7:10:46 PM
Data Processed	: 9/18/2023 1:49:44 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

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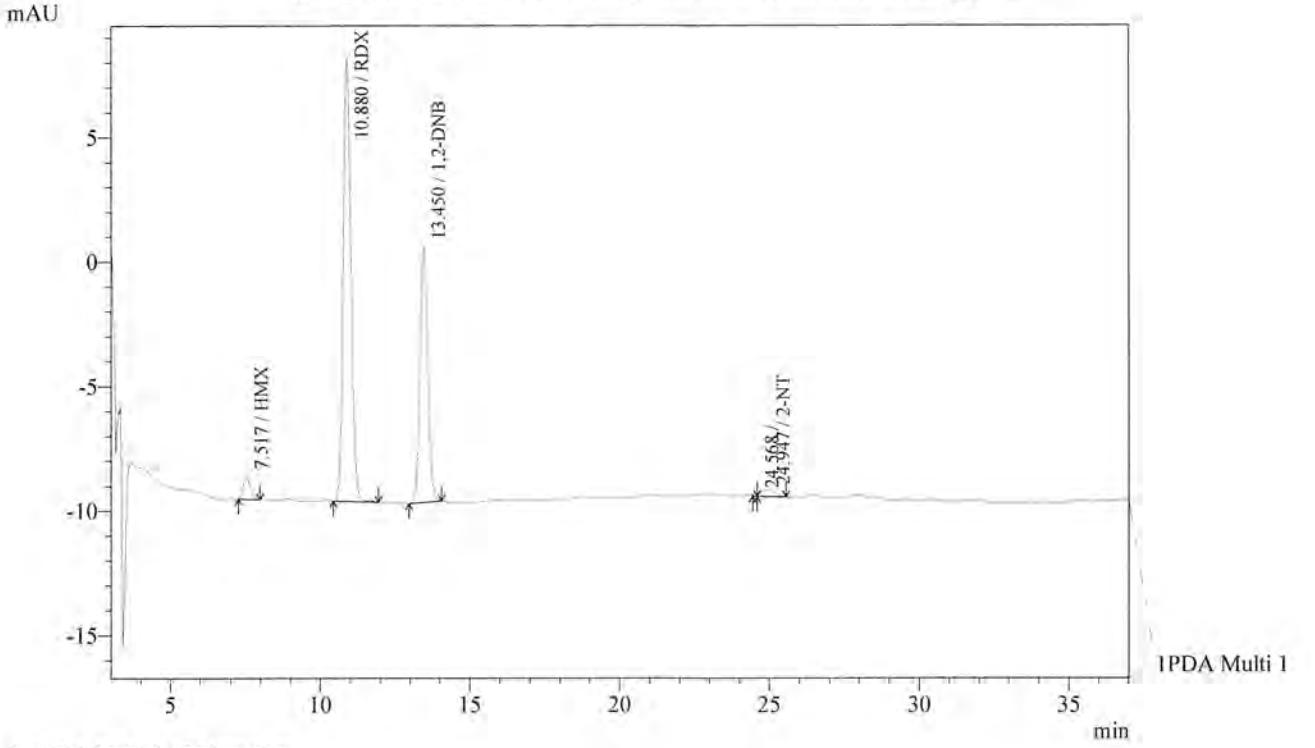


1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.517	15433	94.398	ppb	
RDX	10.880	318564	1766.125	ppb	S
1,3,5-TNB	0.000	0	0.000	ppb	V
1,2-DNB	13.450	195631	750.271	ppb	
1,3-DNB	0.000	0	0.000	ppb	V
NB	0.000	0	0.000	ppb	V
2,4,6-TNT	0.000	0	0.000	ppb	V
TETRYL	0.000	0	0.000	ppb	V
2,6-DNT	0.000	0	0.000	ppb	V
2,4-DNT	0.000	0	0.000	ppb	V
2-NT	24.947	9008	38.589	ppb	V
4-NT	0.000	0	0.000	ppb	V
4-A-2,6-DNT	0.000	0	0.000	ppb	V
3-NT	0.000	0	0.000	ppb	V
2-A-4,6-DNT	0.000	0	0.000	ppb	V

* HMX/RDX confirmed w/ LCMSMS. See appended data.
MDL 9/20/23

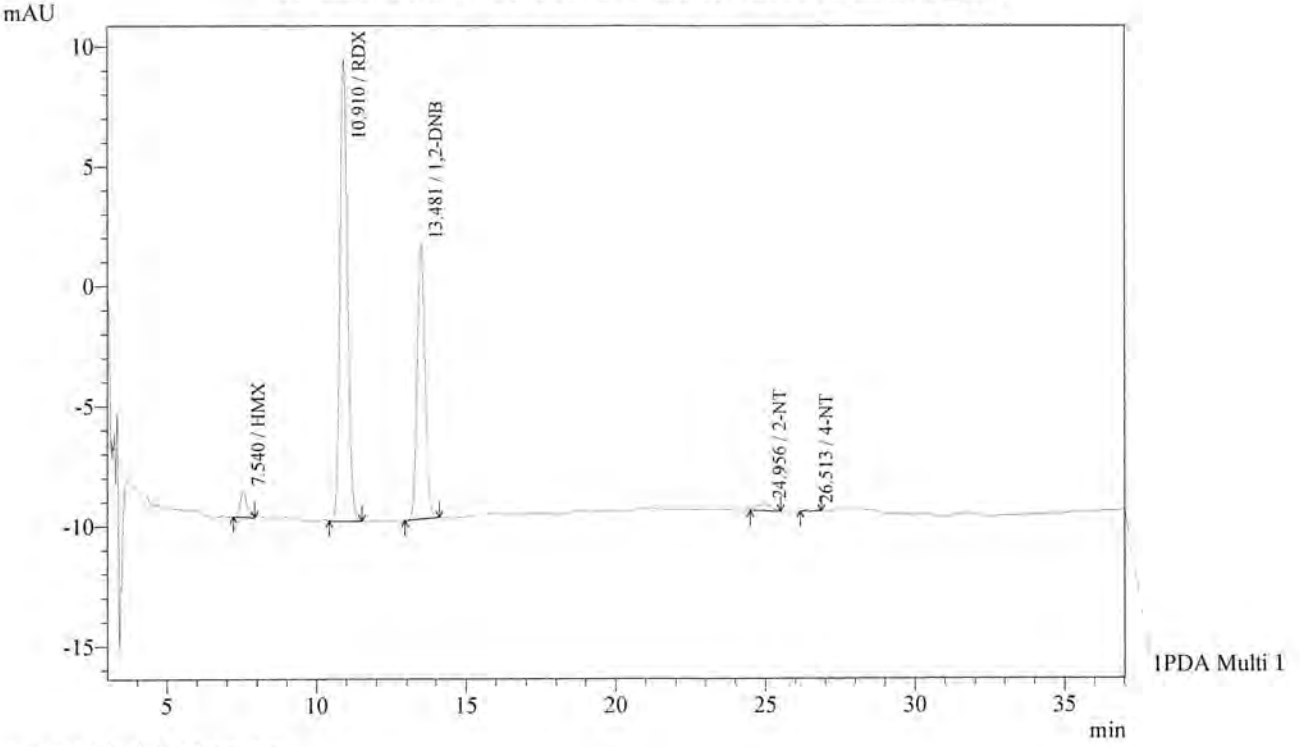
Sample Information

Acquired by	: Admin
Sample Name	: MDI0024-04
Sample ID	:
Vail#	: 46
Injection Volume	: 100 uL
Data Filename	: MDI0024-04_15.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXP2DR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/15/2023 7:48:27 PM
Data Processed	: 9/18/2023 1:50:05 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

MDI0024-04 T:\Data6\HPLC2\2023Q3\SEP\091423EXP\MDI0024-04_15.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.540	16895	103.340	ppb	
RDX	10.910	337398	1870.544	ppb	V
1,3,5-TNB	0.000	0	0.000	ppb	V
1,2-DNB	13.481	213152	817.467	ppb	
1,3-DNB	0.000	0	0.000	ppb	V
NB	0.000	0	0.000	ppb	V
2,4,6-TNT	0.000	0	0.000	ppb	V
TETRYL	0.000	0	0.000	ppb	V
2,6-DNT	0.000	0	0.000	ppb	V
2,4-DNT	0.000	0	0.000	ppb	V
2-NT	24.956	9570	40.996	ppb	V
4-NT	26.513	2832	11.754	ppb	
4-A-2,6-DNT	0.000	0	0.000	ppb	V
3-NT	0.000	0	0.000	ppb	V
2-A-4,6-DNT	0.000	0	0.000	ppb	V

* HMX / RDX confirmed w/ LCMSMS. see appended data.

MER 9/20/23

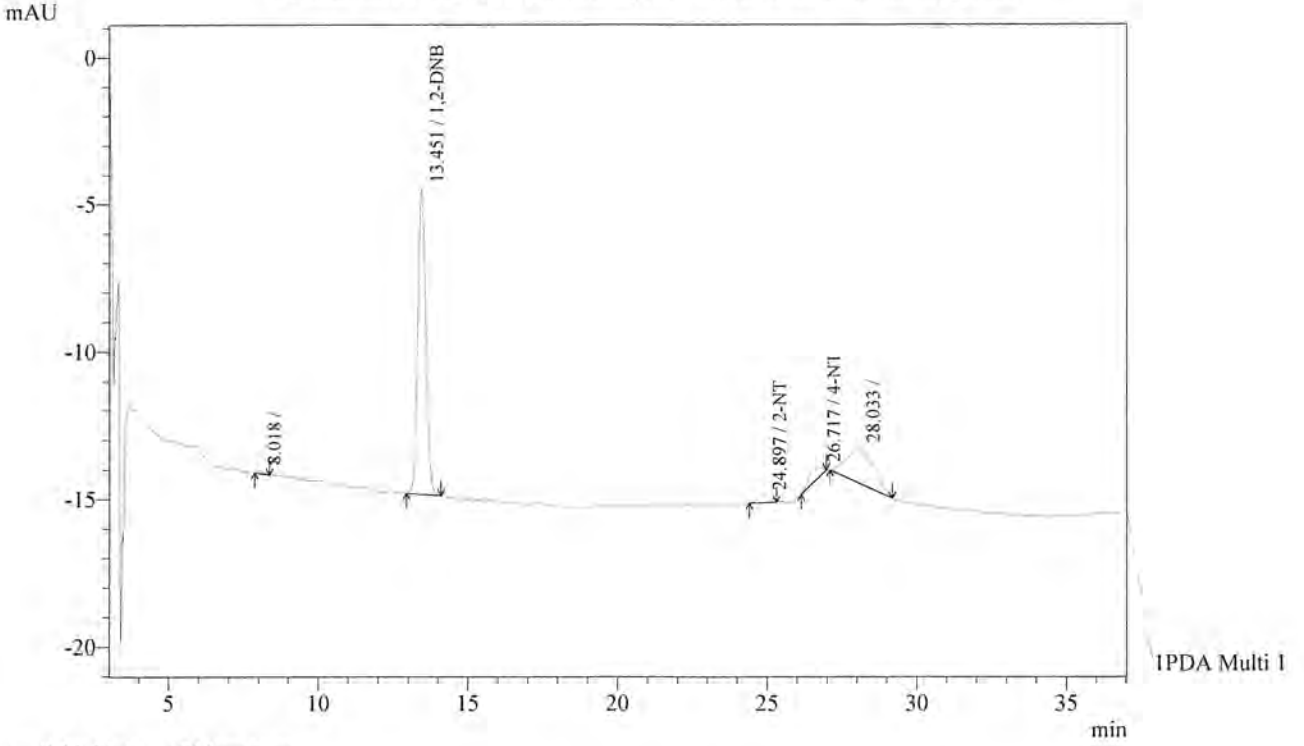
Sample Information

Acquired by	: Admin
Sample Name	: MDI0025-01
Sample ID	:
Vail#	: 47
Injection Volume	: 100 uL
Data Filename	: MDI0025-01_16.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXP2DR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/15/2023 8:26:10 PM
Data Processed	: 9/18/2023 1:50:28 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

MDI0025-01 T:\Data6\HPLC2\2023Q3\SEP\091423EXP\MDI0025-01_16.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	0.000	0	0.000	ppb	V
RDX	0.000	0	0.000	ppb	V
1,3,5-TNB	0.000	0	0.000	ppb	V
1,2-DNB	13.451	194951	747.664	ppb	
1,3-DNB	0.000	0	0.000	ppb	V
NB	0.000	0	0.000	ppb	V
2,4,6-TNT	0.000	0	0.000	ppb	V
TETRYL	0.000	0	0.000	ppb	V
2,6-DNT	0.000	0	0.000	ppb	V
2,4-DNT	0.000	0	0.000	ppb	V
2-NT	24.897	7791	33.378	ppb	
4-NT	26.717	12397	51.454	ppb	
4-A-2,6-DNT	0.000	0	0.000	ppb	V
3-NT	0.000	0	0.000	ppb	V
2-A-4,6-DNT	0.000	0	0.000	ppb	V

4-NT deconfirmed by GCMS

MCL 10/16/23

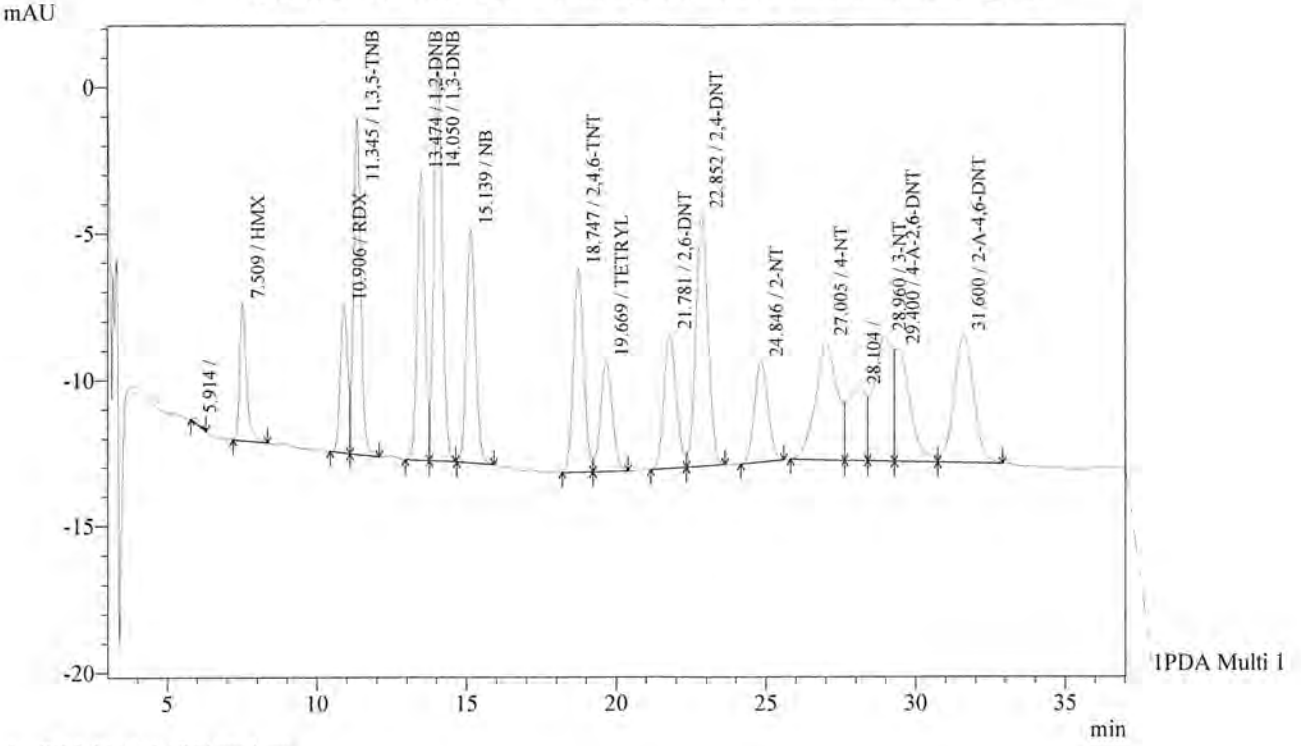
Sample Information

Acquired by	: Admin
Sample Name	: MDI0025-01~~MS~~ MS3
Sample ID	: BDI0064-MS3
Vail#	: 48
Injection Volume	: 100 uL
Data Filename	: MDI0025-01MS_17.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXP2DR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/15/2023 9:03:50 PM
Data Processed	: 9/18/2023 1:50:50 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

MDI0025-01MS T:\Data6\HPLC2\2023Q3\SEP\091423EXP\MDI0025-01MS_17.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.509	74352	454.779	ppb	V
RDX	10.906	87765	486.571	ppb	
1,3,5-TNB	11.345	189759	423.225	ppb	V
1,2-DNB	13.474	187215	717.995	ppb	
1,3-DNB	14.050	268801	421.707	ppb	V
NB	15.139	167465	411.816	ppb	
2,4,6-TNT	18.747	168418	427.463	ppb	V
TETRYL	19.669	102418	422.877	ppb	V
2,6-DNT	21.781	133301	435.183	ppb	V
2,4-DNT	22.852	253594	431.670	ppb	V
2-NT	24.846	109074	467.272	ppb	
4-NT	27.005	207000	859.146	ppb	
4-A-2,6-DNT	29.400	138962	508.325	ppb	SV
3-NT	28.960	184552	676.501	ppb	V
2-A-4,6-DNT	31.600	198575	472.758	ppb	V

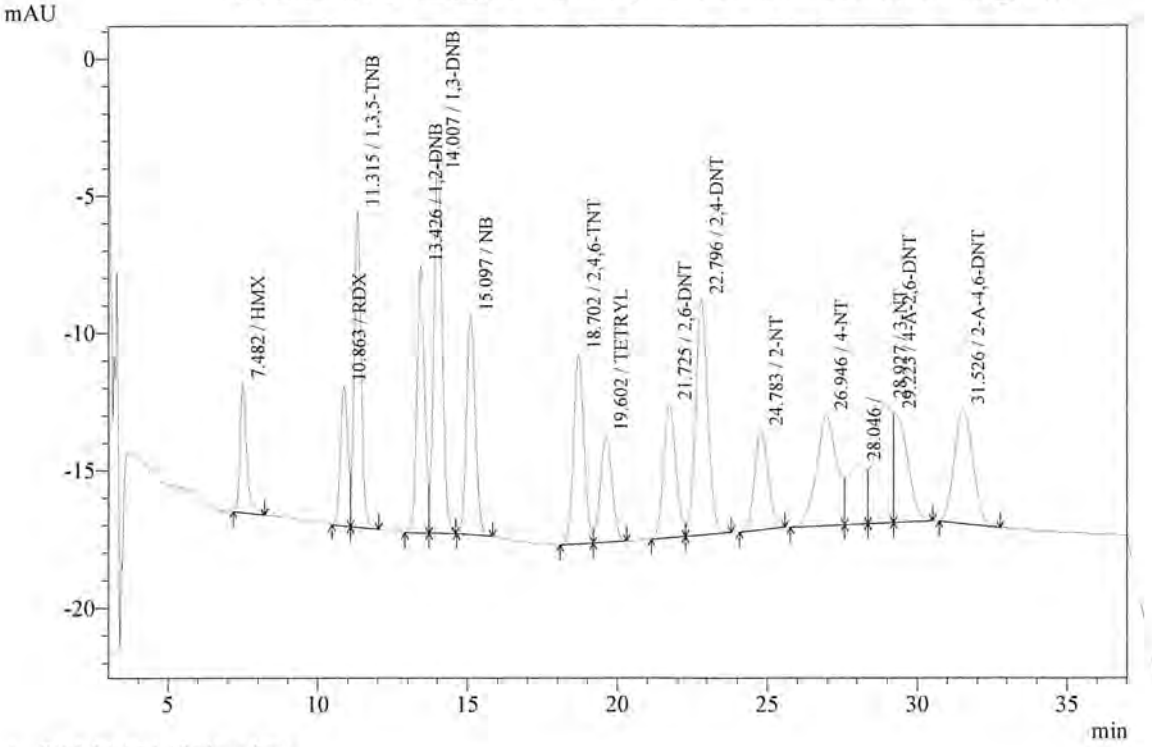
Sample Information

Acquired by	: Admin
Sample Name	: MDI0025-01~~MSD~~ MSD 3
Sample ID	: 8DI0064-MSD3
Vail#	: 49
Injection Volume	: 100 uL
Data Filename	: MDI0025-01MSD_18.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXP2DR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/15/2023 9:41:30 PM
Data Processed	: 9/18/2023 1:51:11 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

MDI0025-01MSD T:\Data6\HPLC2\2023Q3\SEP\091423EXP\MDI0025-01MSD_18.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.482	73486	449.483	ppb	
RDX	10.863	88104	488.449	ppb	
1,3,5-TNB	11.315	187445	418.063	ppb	V
1,2-DNB	13.426	182976	701.739	ppb	
1,3-DNB	14.007	267826	420.177	ppb	V
NB	15.097	163903	403.057	ppb	
2,4,6-TNT	18.702	167658	425.533	ppb	
TETRYL	19.602	105860	437.089	ppb	V
2,6-DNT	21.725	139769	456.300	ppb	V
2,4-DNT	22.796	252861	430.422	ppb	SV
2-NT	24.783	114349	489.867	ppb	S
4-NT	26.946	192423	798.642	ppb	
4-A-2,6-DNT	29.223	125610	459.484	ppb	V
3-NT	28.927	178767	655.295	ppb	V
2-A-4,6-DNT	31.526	179450	427.226	ppb	

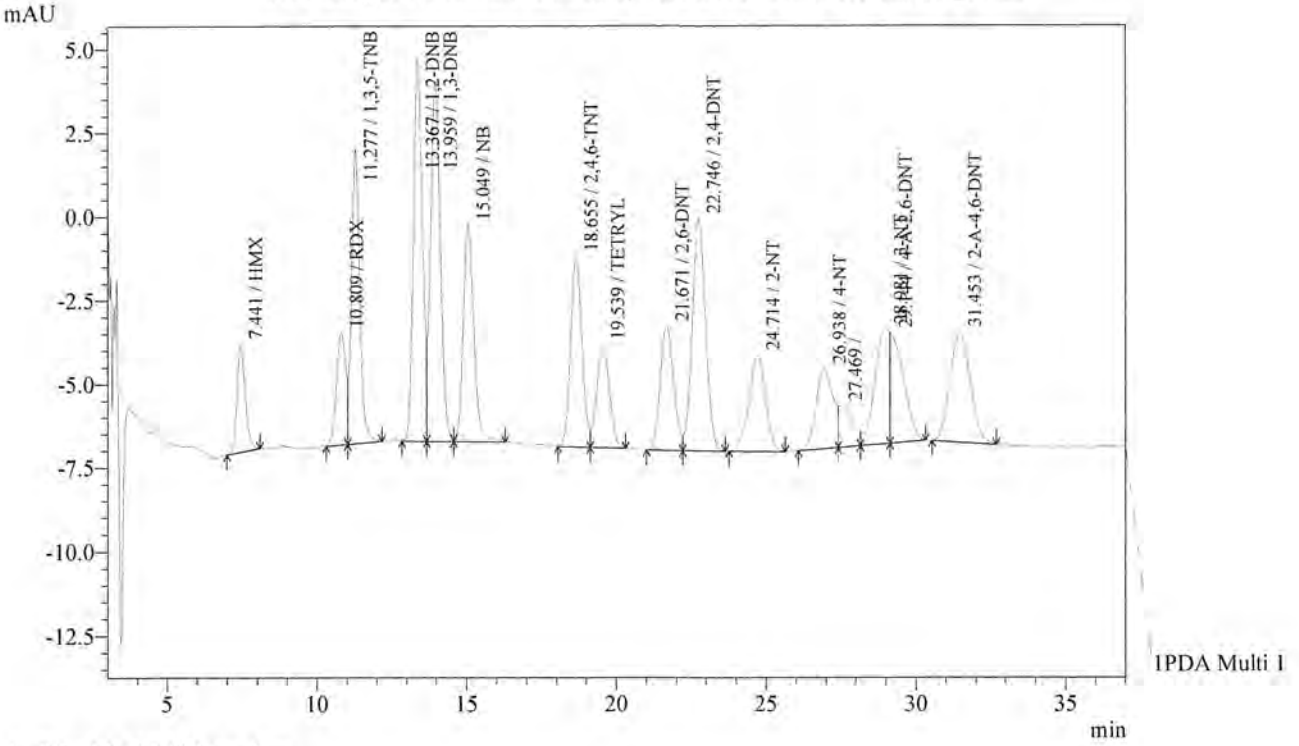
Sample Information

Acquired by	: Admin
Sample Name	: CCV 400 ppb
Sample ID	:
Vail#	: 4
Injection Volume	: 100 uL
Data Filename	: CCV 400 ppb_19.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXP2DR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/15/2023 10:19:11 PM
Data Processed	: 9/18/2023 1:51:33 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

CCV 400 ppb T:\Data6\HPLC2\2023Q3\SEP\091423EXP\CCV 400 ppb_19.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.441	63295	387.149	ppb	V
RDX	10.809	73414	407.010	ppb	V
1,3,5-TNB	11.277	170920	381.207	ppb	SV
1,2-DNB	13.367	250250	959.746	ppb	V
1,3-DNB	13.959	245412	385.013	ppb	V
NB	15.049	159005	391.012	ppb	SV
2,4,6-TNT	18.655	150263	381.383	ppb	V
TETRYL	19.539	90910	375.359	ppb	V
2,6-DNT	21.671	116682	380.929	ppb	
2,4-DNT	22.746	222568	378.858	ppb	V
2-NT	24.714	111608	478.127	ppb	S
4-NT	26.938	96546	400.712	ppb	
4-A-2,6-DNT	29.144	100665	368.235	ppb	V
3-NT	28.981	116519	427.115	ppb	V
2-A-4,6-DNT	31.453	157029	373.849	ppb	

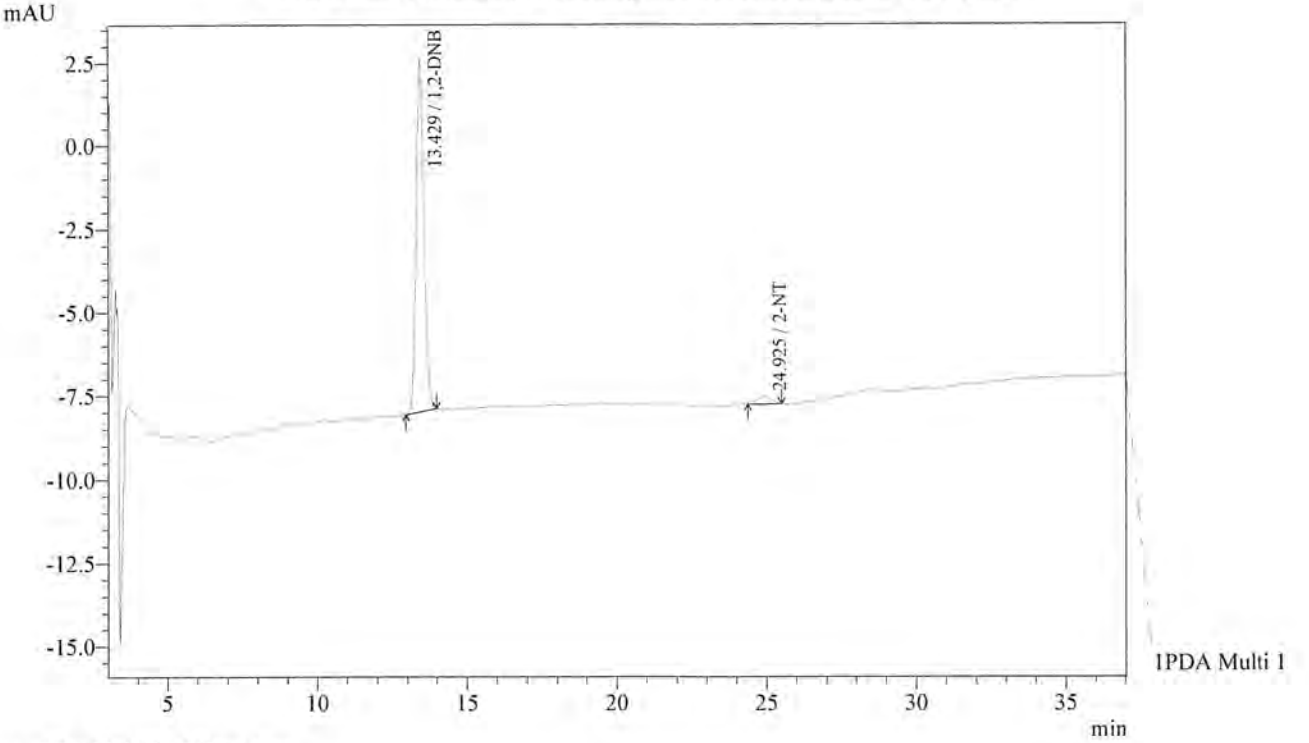
Sample Information

Acquired by	: Admin
Sample Name	: MDI0025-02
Sample ID	:
Vail#	: 50
Injection Volume	: 100 uL
Data Filename	: MDI0025-02_20.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXP2DR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/15/2023 10:56:51 PM
Data Processed	: 9/18/2023 1:51:55 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

MDI0025-02 T:\Data6\HPLC2\2023Q3\SEP\091423EXP\MDI0025-02_20.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	0.000	0	0.000	ppb	V
RDX	0.000	0	0.000	ppb	V
1,3,5-TNB	0.000	0	0.000	ppb	V
1,2-DNB	13.429	201783	773.865	ppb	
1,3-DNB	0.000	0	0.000	ppb	V
NB	0.000	0	0.000	ppb	V
2,4,6-TNT	0.000	0	0.000	ppb	V
TETRYL	0.000	0	0.000	ppb	V
2,6-DNT	0.000	0	0.000	ppb	V
2,4-DNT	0.000	0	0.000	ppb	V
2-NT	24.925	8688	37.220	ppb	V
4-NT	0.000	0	0.000	ppb	V
4-A-2,6-DNT	0.000	0	0.000	ppb	V
3-NT	0.000	0	0.000	ppb	V
2-A-4,6-DNT	0.000	0	0.000	ppb	V

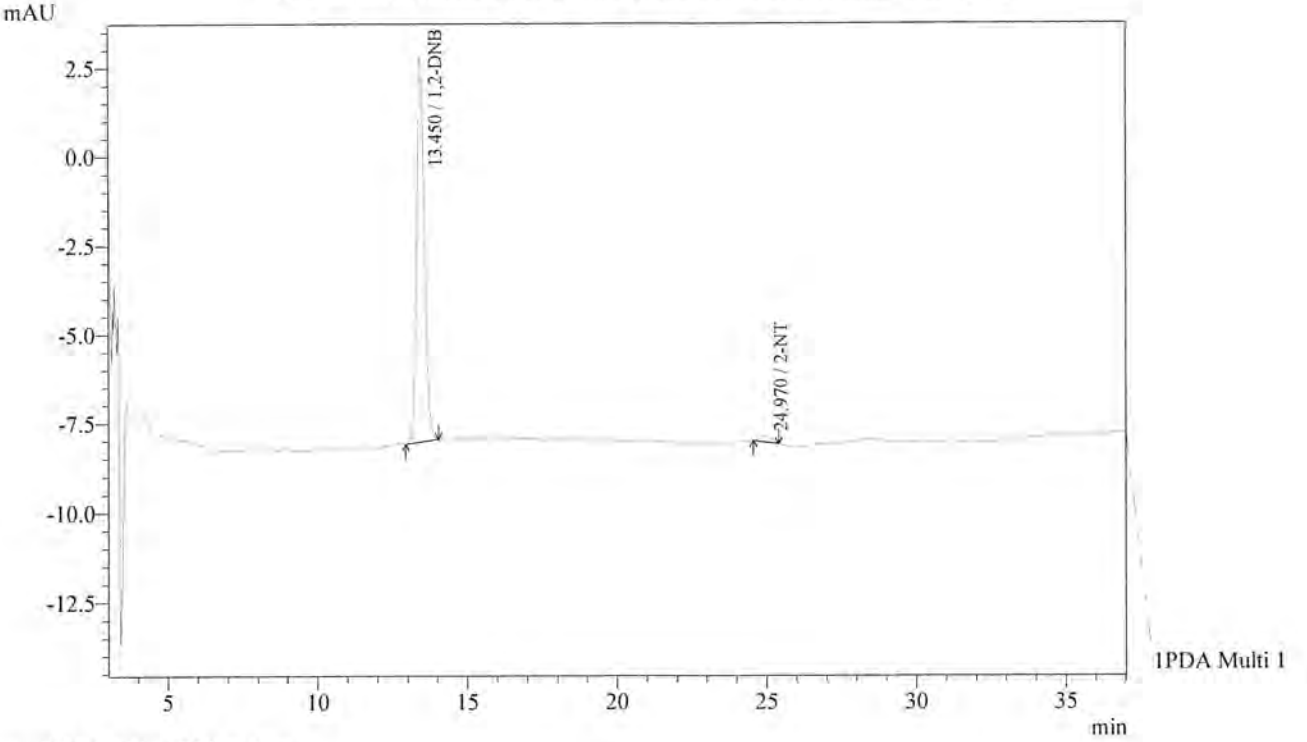
Sample Information

Acquired by	: Admin
Sample Name	: MDI0025-03
Sample ID	:
Vail#	: 51
Injection Volume	: 100 uL
Data Filename	: MDI0025-03_21.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXP2DR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/15/2023 11:34:29 PM
Data Processed	: 9/18/2023 1:52:17 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

MDI0025-03 T:\Data6\HPLC2\2023Q3\SEP\091423EXP\MDI0025-03_21.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	0.000	0	0.000	ppb	V
RDX	0.000	0	0.000	ppb	V
1,3,5-TNB	0.000	0	0.000	ppb	V
1,2-DNB	13.450	205550	788.315	ppb	
1,3-DNB	0.000	0	0.000	ppb	V
NB	0.000	0	0.000	ppb	V
2,4,6-TNT	0.000	0	0.000	ppb	V
TETRYL	0.000	0	0.000	ppb	V
2,6-DNT	0.000	0	0.000	ppb	V
2,4-DNT	0.000	0	0.000	ppb	V
2-NT	24.970	4624	19.810	ppb	
4-NT	0.000	0	0.000	ppb	V
4-A-2,6-DNT	0.000	0	0.000	ppb	V
3-NT	0.000	0	0.000	ppb	V
2-A-4,6-DNT	0.000	0	0.000	ppb	V

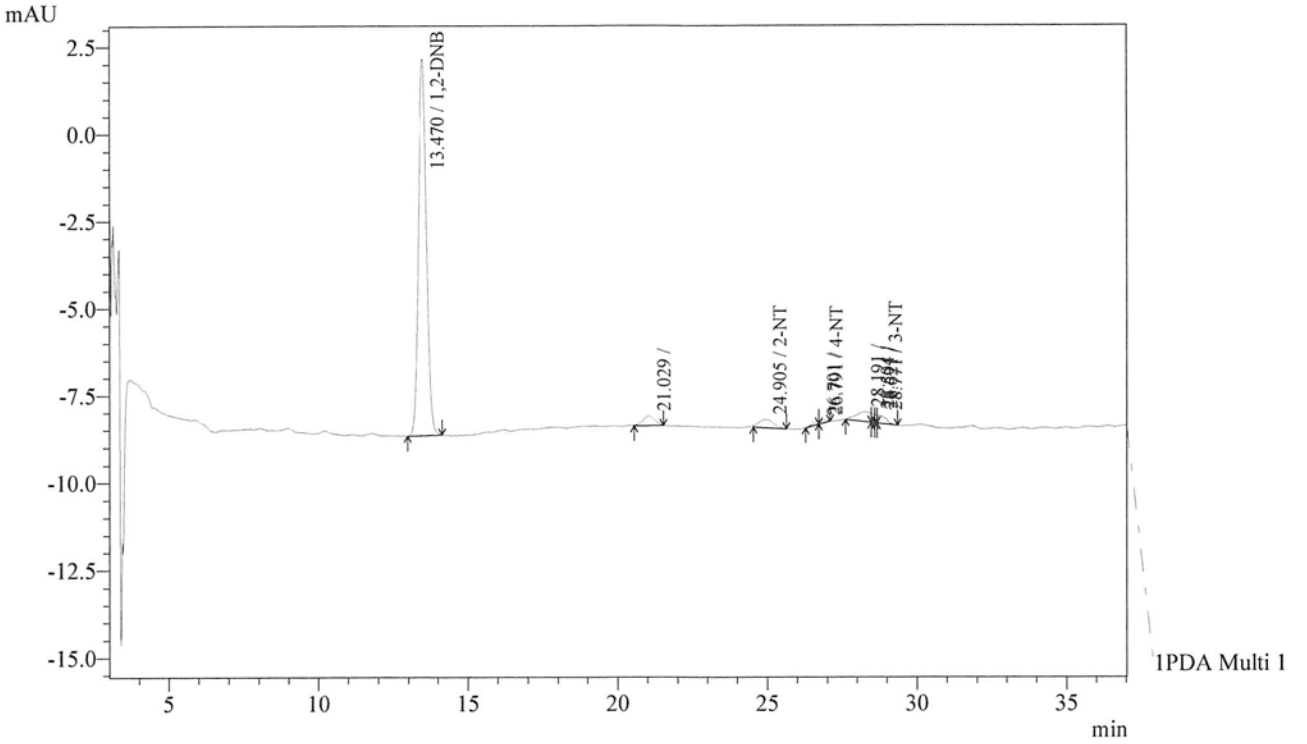
Sample Information

Acquired by	: Admin
Sample Name	: MDI0025-04
Sample ID	:
Vail#	: 52
Injection Volume	: 100 uL
Data Filename	: MDI0025-04_22.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXP2DR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/16/2023 12:12:10 AM
Data Processed	: 9/18/2023 1:52:40 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

MDI0025-04 T:\Data6\HPLC2\2023Q3\SEP\091423EXP\MDI0025-04_22.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	0.000	0	0.000	ppb	V
RDX	0.000	0	0.000	ppb	V
1,3,5-TNB	0.000	0	0.000	ppb	V
1,2-DNB	13.470	205212	787.016	ppb	
1,3-DNB	0.000	0	0.000	ppb	V
NB	0.000	0	0.000	ppb	V
2,4,6-TNT	0.000	0	0.000	ppb	V
TETRYL	0.000	0	0.000	ppb	V
2,6-DNT	0.000	0	0.000	ppb	V
2,4-DNT	0.000	0	0.000	ppb	V
2-NT	24.905	7943	34.029	ppb	V
4-NT	26.791	1530	6.350	ppb	V
4-A-2,6-DNT	0.000	0	0.000	ppb	V
3-NT	28.771	4434	16.253	ppb	V
2-A-4,6-DNT	0.000	0	0.000	ppb	V

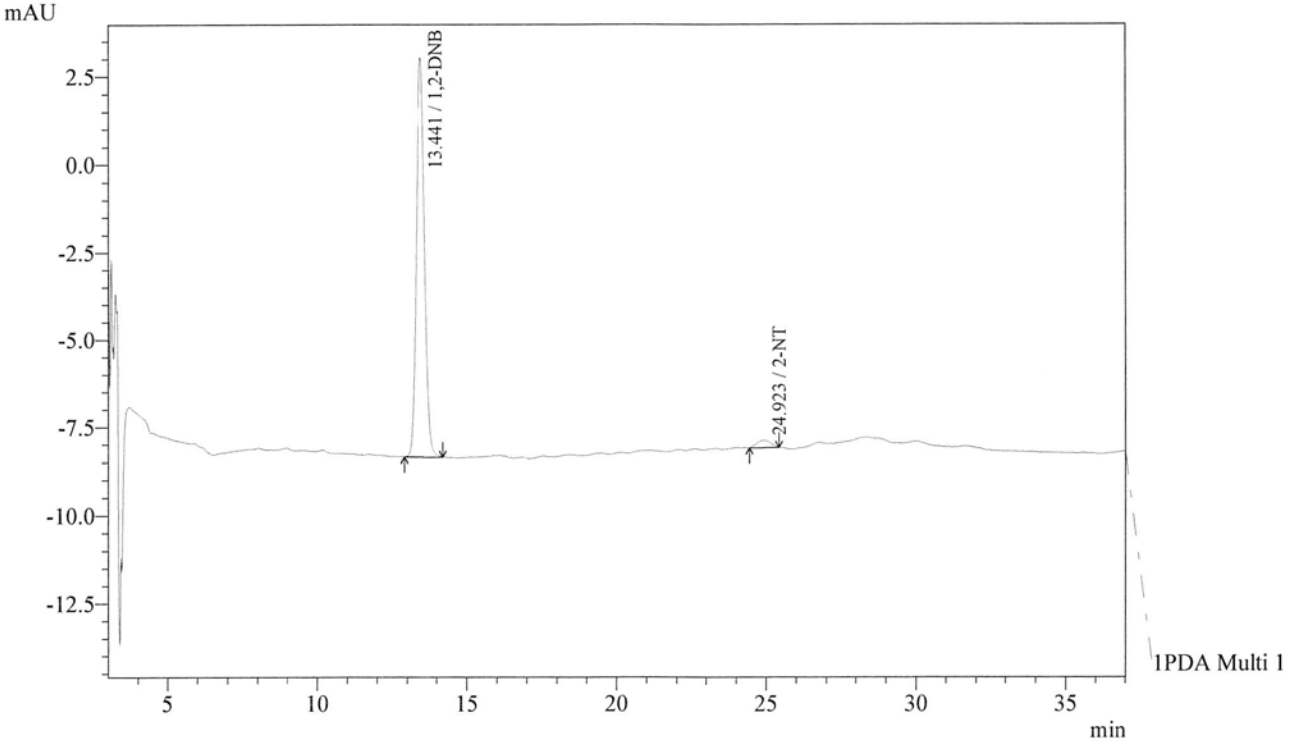
Sample Information

Acquired by	: Admin
Sample Name	: MDI0025-05
Sample ID	:
Vail#	: 53
Injection Volume	: 100 uL
Data Filename	: MDI0025-05_23.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXP2DR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/16/2023 12:49:50 AM
Data Processed	: 9/18/2023 1:53:02 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

MDI0025-05 T:\Data6\HPLC2\2023Q3\SEP\091423EXP\MDI0025-05_23.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	0.000	0	0.000	ppb	V
RDX	0.000	0	0.000	ppb	V
1,3,5-TNB	0.000	0	0.000	ppb	V
1,2-DNB	13.441	218211	836.871	ppb	
1,3-DNB	0.000	0	0.000	ppb	V
NB	0.000	0	0.000	ppb	V
2,4,6-TNT	0.000	0	0.000	ppb	V
TETRYL	0.000	0	0.000	ppb	V
2,6-DNT	0.000	0	0.000	ppb	V
2,4-DNT	0.000	0	0.000	ppb	V
2-NT	24.923	6938	29.723	ppb	
4-NT	0.000	0	0.000	ppb	V
4-A-2,6-DNT	0.000	0	0.000	ppb	V
3-NT	0.000	0	0.000	ppb	V
2-A-4,6-DNT	0.000	0	0.000	ppb	V

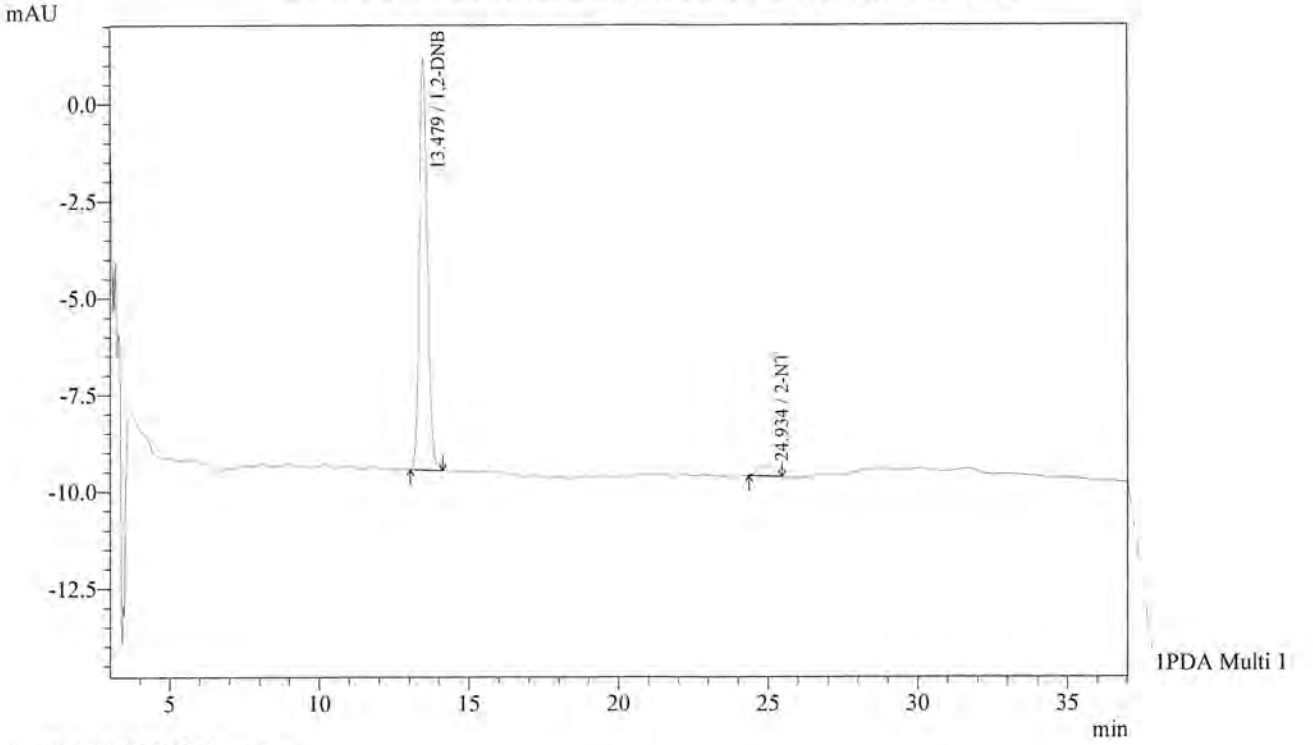
Sample Information

Acquired by	: Admin
Sample Name	: MDI0025-06
Sample ID	:
Vail#	: 54
Injection Volume	: 100 uL
Data Filename	: MDI0025-06_24.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXP2DR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/16/2023 1:27:31 AM
Data Processed	: 9/18/2023 1:53:24 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

MDI0025-06 T:\Data6\HPLC2\2023Q3\SEP\091423EXP\MDI0025-06_24.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	0.000	0	0.000	ppb	V
RDX	0.000	0	0.000	ppb	V
1,3,5-TNB	0.000	0	0.000	ppb	V
1,2-DNB	13.479	203949	782.174	ppb	
1,3-DNB	0.000	0	0.000	ppb	V
NB	0.000	0	0.000	ppb	V
2,4,6-TNT	0.000	0	0.000	ppb	V
TETRYL	0.000	0	0.000	ppb	V
2,6-DNT	0.000	0	0.000	ppb	V
2,4-DNT	0.000	0	0.000	ppb	V
2-NT	24.934	8438	36.150	ppb	
4-NT	0.000	0	0.000	ppb	V
4-A-2,6-DNT	0.000	0	0.000	ppb	V
3-NT	0.000	0	0.000	ppb	V
2-A-4,6-DNT	0.000	0	0.000	ppb	V

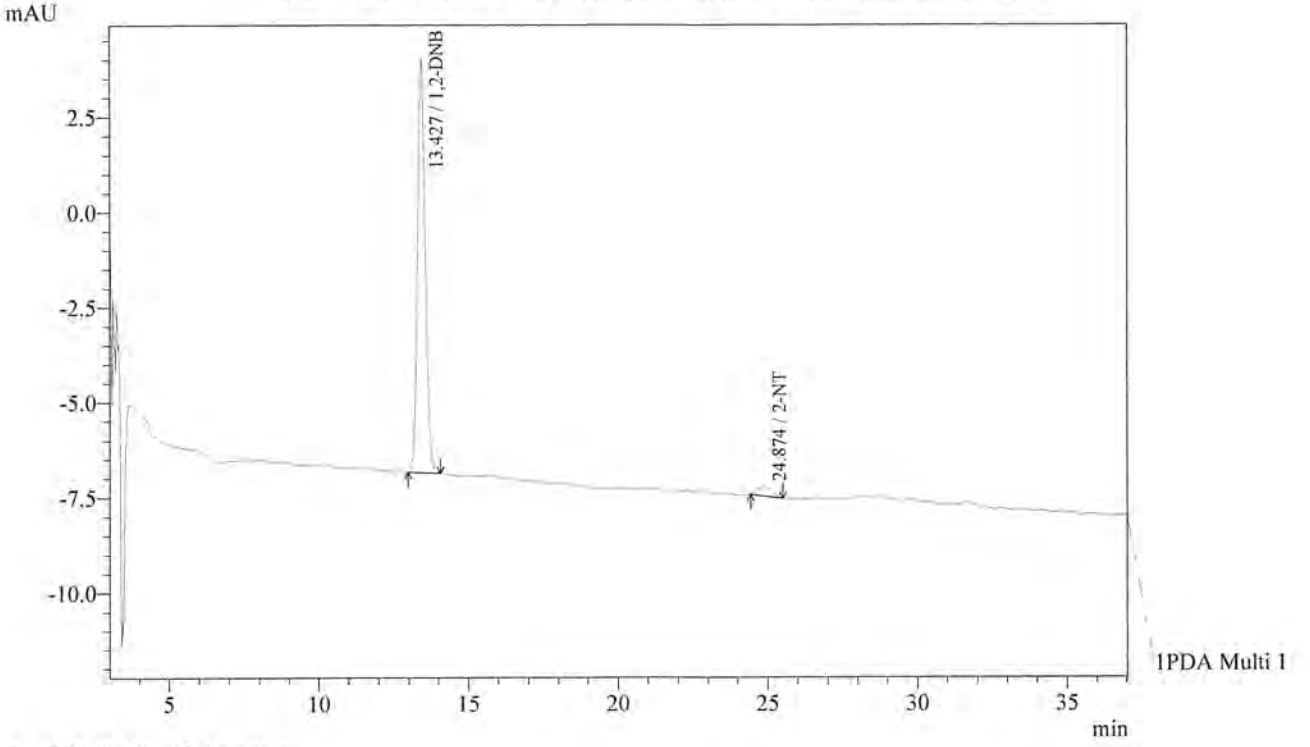
Sample Information

Acquired by	: Admin
Sample Name	: MDI0025-07
Sample ID	:
Vail#	: 55
Injection Volume	: 100 uL
Data Filename	: MDI0025-07_25.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXP2DR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/16/2023 2:05:12 AM
Data Processed	: 9/18/2023 1:53:46 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

MDI0025-07 T:\Data6\HPLC2\2023Q3\SEP\091423EXP\MDI0025-07_25.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	0.000	0	0.000	ppb	V
RDX	0.000	0	0.000	ppb	V
1,3,5-TNB	0.000	0	0.000	ppb	V
1,2-DNB	13.427	206177	790.720	ppb	
1,3-DNB	0.000	0	0.000	ppb	V
NB	0.000	0	0.000	ppb	V
2,4,6-TNT	0.000	0	0.000	ppb	V
TETRYL	0.000	0	0.000	ppb	V
2,6-DNT	0.000	0	0.000	ppb	V
2,4-DNT	0.000	0	0.000	ppb	V
2-NT	24.874	7973	34.155	ppb	
4-NT	0.000	0	0.000	ppb	V
4-A-2,6-DNT	0.000	0	0.000	ppb	V
3-NT	0.000	0	0.000	ppb	V
2-A-4,6-DNT	0.000	0	0.000	ppb	V

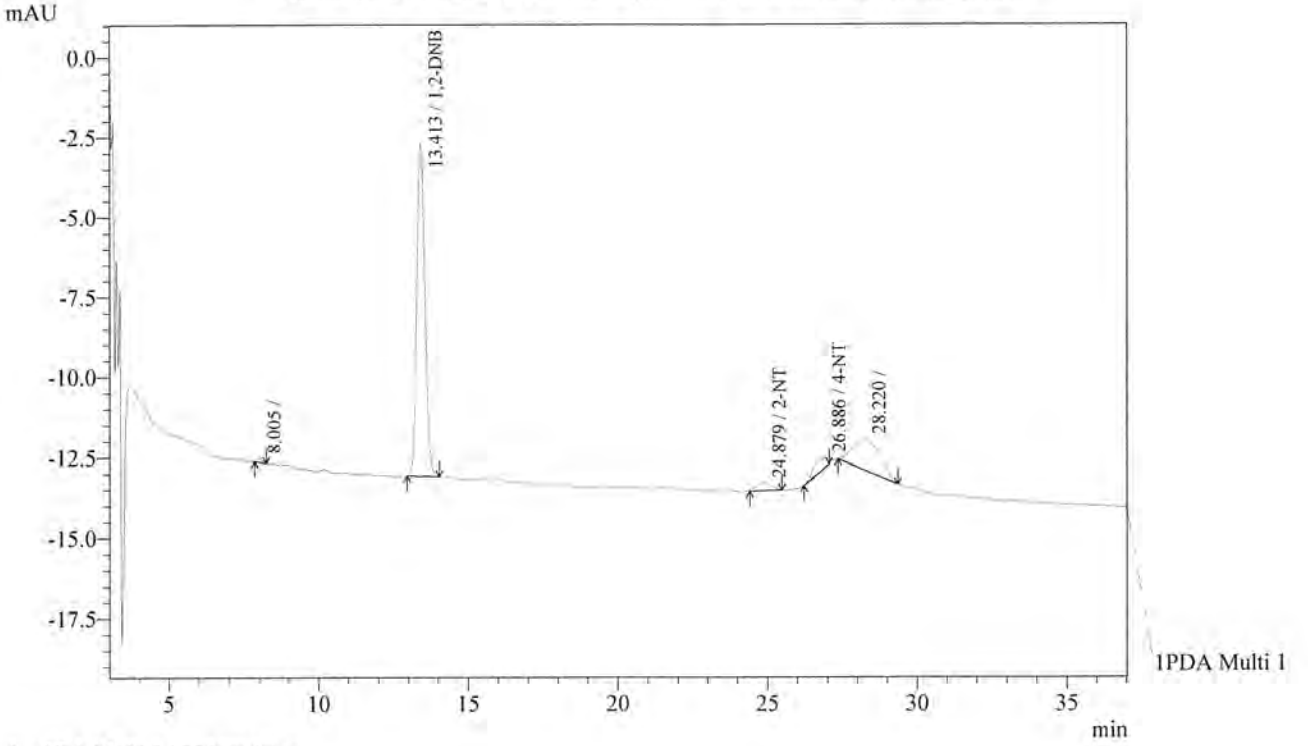
Sample Information

Acquired by	: Admin
Sample Name	: MDI0025-08
Sample ID	:
Vail#	: 56
Injection Volume	: 100 uL
Data Filename	: MDI0025-08_26.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXP2DR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/16/2023 2:42:53 AM
Data Processed	: 9/18/2023 1:54:08 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

MDI0025-08 T:\Data6\HPLC2\2023Q3\SEP\091423EXP\MDI0025-08_26.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	0.000	0	0.000	ppb	V
RDX	0.000	0	0.000	ppb	V
1,3,5-TNB	0.000	0	0.000	ppb	V
1,2-DNB	13.413	197205	756.308	ppb	
1,3-DNB	0.000	0	0.000	ppb	V
NB	0.000	0	0.000	ppb	V
2,4,6-TNT	0.000	0	0.000	ppb	V
TETRYL	0.000	0	0.000	ppb	V
2,6-DNT	0.000	0	0.000	ppb	V
2,4-DNT	0.000	0	0.000	ppb	V
2-NT	24.879	8314	35.617	ppb	V
4-NT	26.886	13015	54.018	ppb	
4-A-2,6-DNT	0.000	0	0.000	ppb	V
3-NT	0.000	0	0.000	ppb	V
2-A-4,6-DNT	0.000	0	0.000	ppb	V

4-NT deconfirmed by GCMS, see appended packet.

MCA 10/16/23

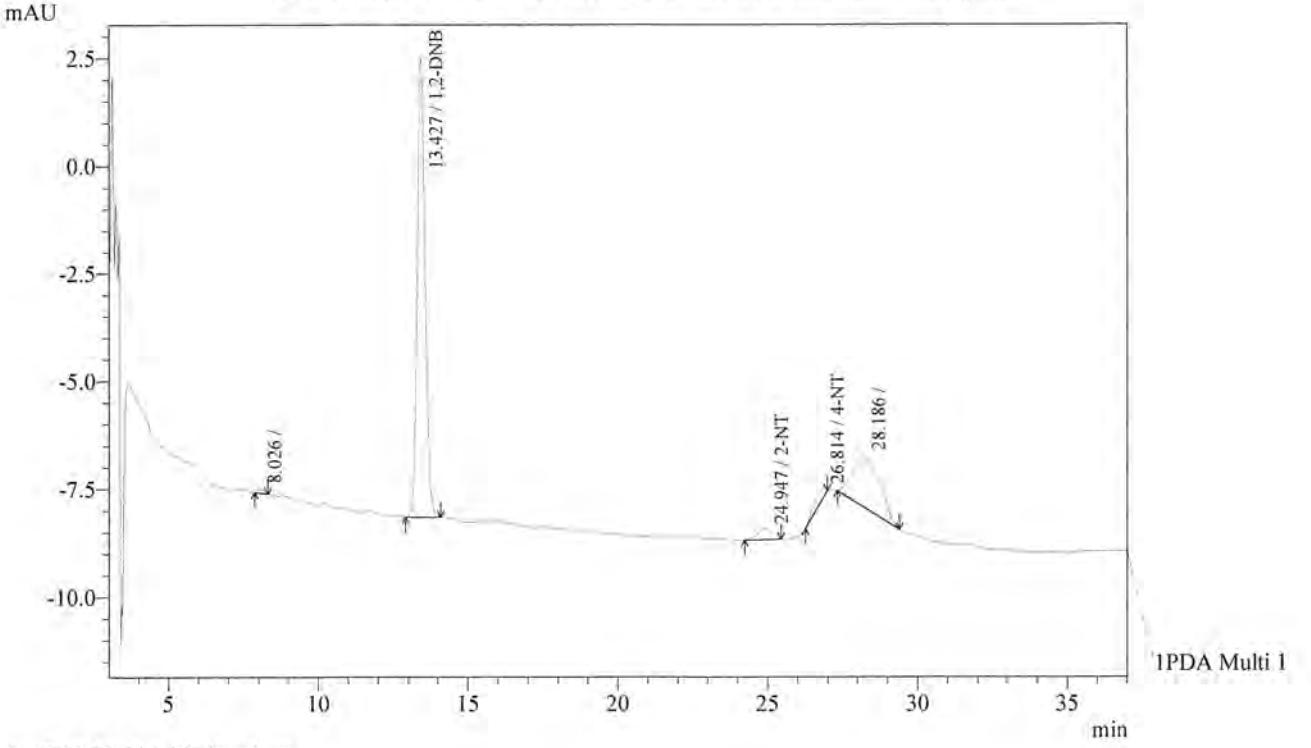
Sample Information

Acquired by	: Admin
Sample Name	: MDI0025-09
Sample ID	:
Vail#	: 57
Injection Volume	: 100 uL
Data Filename	: MDI0025-09_27.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXP2DR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/16/2023 3:20:32 AM
Data Processed	: 9/18/2023 1:54:30 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

MDI0025-09 T:\Data6\HPLC2\2023Q3\SEP\091423EXP\MDI0025-09_27.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	0.000	0	0.000	ppb	V
RDX	0.000	0	0.000	ppb	V
1,3,5-TNB	0.000	0	0.000	ppb	V
1,2-DNB	13.427	203083	778.854	ppb	
1,3-DNB	0.000	0	0.000	ppb	V
NB	0.000	0	0.000	ppb	V
2,4,6-TNT	0.000	0	0.000	ppb	V
TETRYL	0.000	0	0.000	ppb	V
2,6-DNT	0.000	0	0.000	ppb	V
2,4-DNT	0.000	0	0.000	ppb	V
2-NT	24.947	9086	38.924	ppb	
4-NT	26.814	8756	36.343	ppb	
4-A-2,6-DNT	0.000	0	0.000	ppb	V
3-NT	0.000	0	0.000	ppb	V
2-A-4,6-DNT	0.000	0	0.000	ppb	V

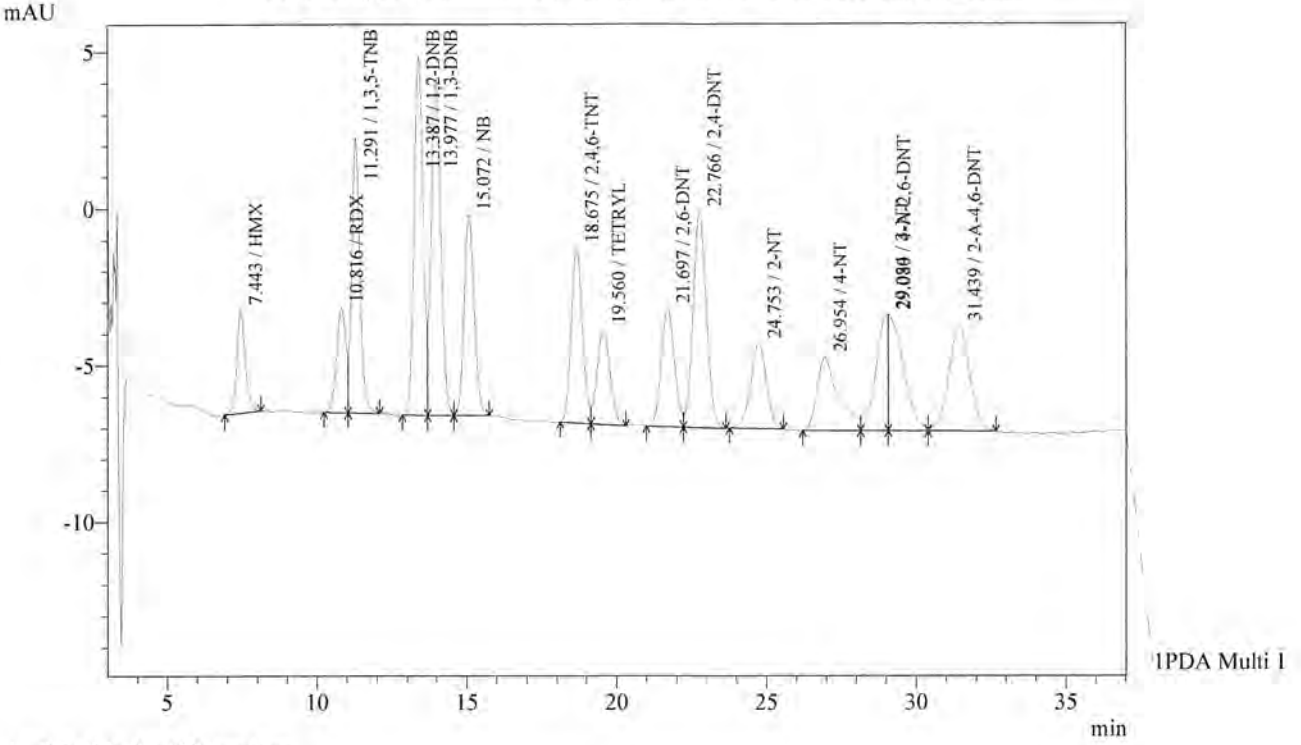
Sample Information

Acquired by	: Admin
Sample Name	: CCV 400 ppb
Sample ID	:
Vail#	: 4
Injection Volume	: 100 uL
Data Filename	: CCV 400 ppb_28.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXP2DR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/16/2023 3:58:13 AM
Data Processed	: 9/18/2023 1:54:52 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

CCV 400 ppb T:\Data6\HPLC2\2023Q3\SEP\091423EXP\CCV 400 ppb_28.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.443	64075	391.919	ppb	V
RDX	10.816	73119	405.375	ppb	
1,3,5-TNB	11.291	165495	369.107	ppb	V
1,2-DNB	13.387	247959	950.958	ppb	
1,3-DNB	13.977	238622	374.362	ppb	V
NB	15.072	149034	366.492	ppb	V
2,4,6-TNT	18.675	146804	372.604	ppb	
TETRYL	19.560	90370	373.129	ppb	V
2,6-DNT	21.697	116270	379.582	ppb	
2,4-DNT	22.766	220342	375.068	ppb	V
2-NT	24.753	100128	428.946	ppb	
4-NT	26.954	118522	491.920	ppb	
4-A-2,6-DNT	29.080	124665	456.028	ppb	V
3-NT	29.034	102310	375.030	ppb	V
2-A-4,6-DNT	31.439	161378	384.202	ppb	V

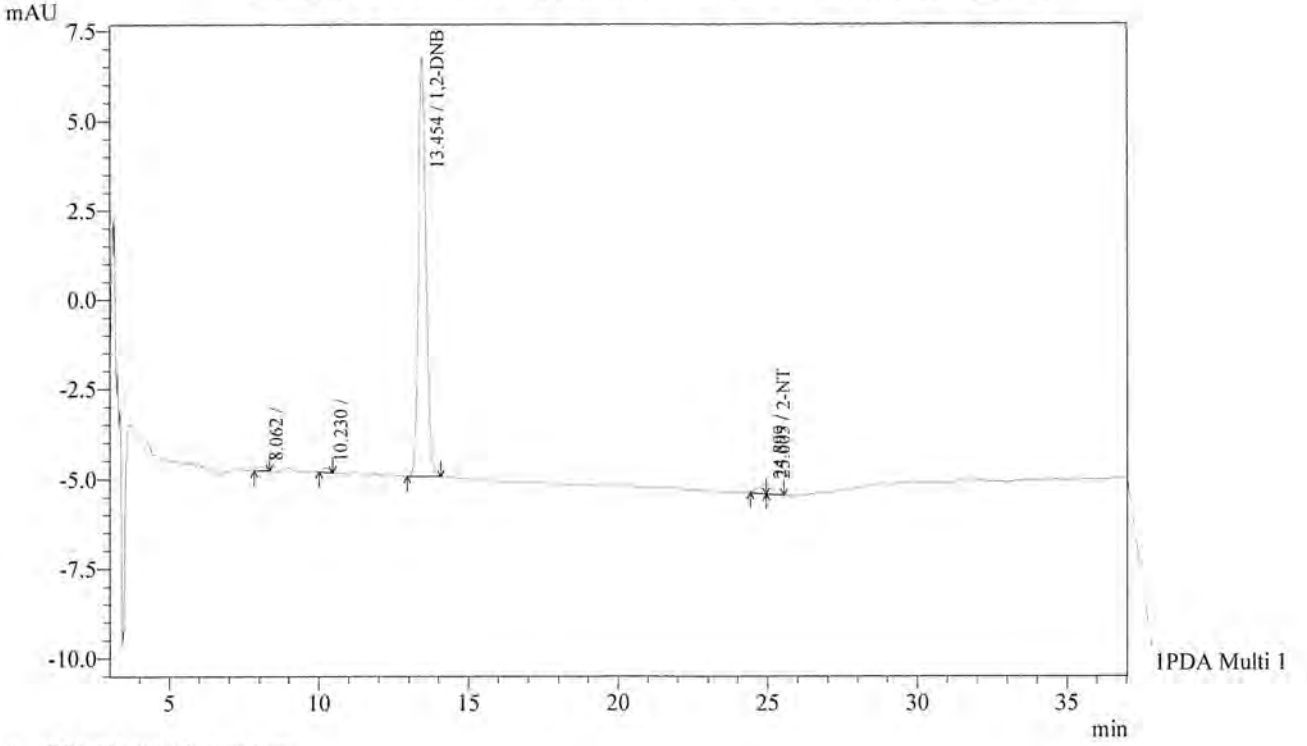
Sample Information

Acquired by	: Admin
Sample Name	: BDI0389-BLK1
Sample ID	:
Vail#	: 58
Injection Volume	: 100 uL
Data Filename	: BDI0389-BLK1_29.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXP2DR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/16/2023 4:35:56 AM
Data Processed	: 9/18/2023 1:55:14 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

BDI0389-BLK1 T:\Data6\HPLC2\2023Q3\SEP\091423EXP\BDI0389-BLK1_29.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	0.000	0	0.000	ppb	V
RDX	0.000	0	0.000	ppb	V
1,3,5-TNB	0.000	0	0.000	ppb	V
1,2-DNB	13.454	210222	806.231	ppb	
1,3-DNB	0.000	0	0.000	ppb	V
NB	0.000	0	0.000	ppb	V
2,4,6-TNT	0.000	0	0.000	ppb	V
TETRYL	0.000	0	0.000	ppb	V
2,6-DNT	0.000	0	0.000	ppb	V
2,4-DNT	0.000	0	0.000	ppb	V
2-NT	25.005	4635	19.857	ppb	V
4-NT	0.000	0	0.000	ppb	V
4-A-2,6-DNT	0.000	0	0.000	ppb	V
3-NT	0.000	0	0.000	ppb	V
2-A-4,6-DNT	0.000	0	0.000	ppb	V

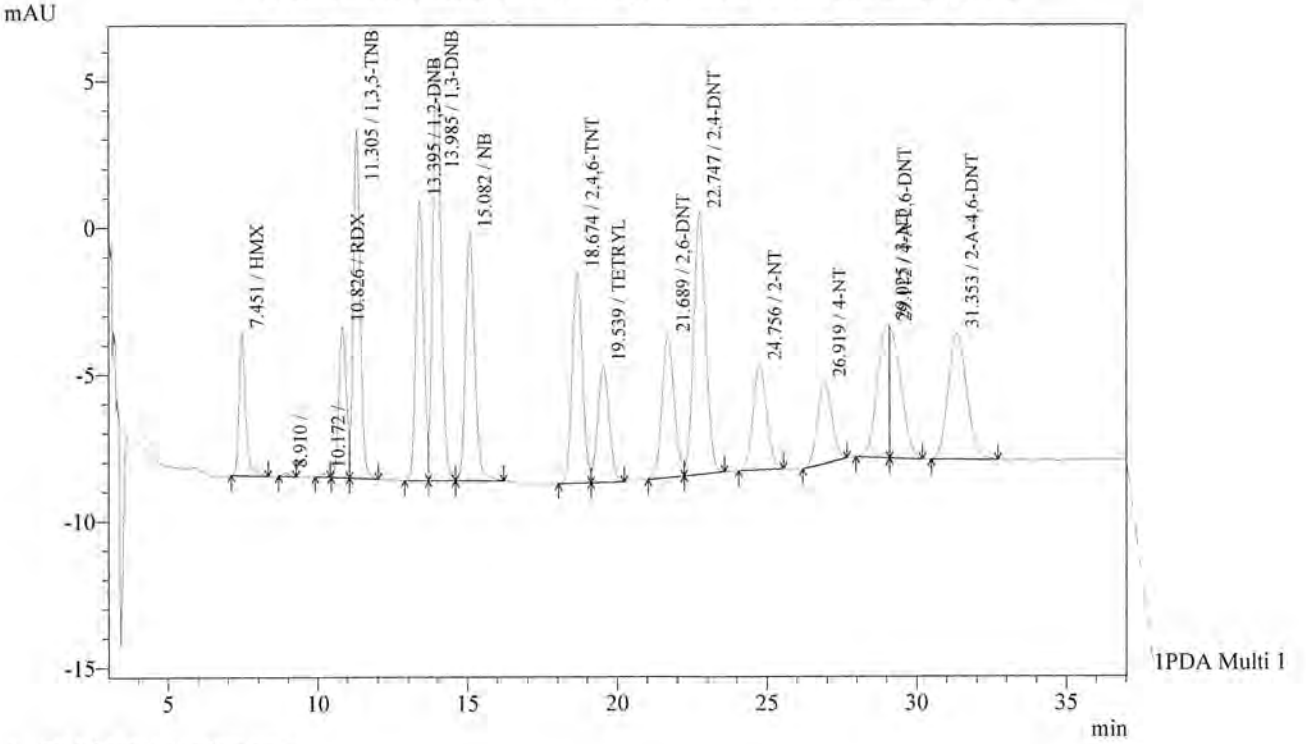
Sample Information

Acquired by	: Admin
Sample Name	: BDI0389-BS1
Sample ID	:
Vail#	: 59
Injection Volume	: 100 uL
Data Filename	: BDI0389-BS1_30.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXP2DR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/16/2023 5:13:37 AM
Data Processed	: 9/18/2023 1:56:28 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

BDI0389-BS1 T:\Data6\HPLC2\2023Q3\SEP\091423EXP\BDI0389-BS1_30.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.451	76439	467.550	ppb	
RDX	10.826	89459	495.963	ppb	
1,3,5-TNB	11.305	190942	425.862	ppb	V
1,2-DNB	13.395	177545	680.909	ppb	
1,3-DNB	13.985	279278	438.145	ppb	V
NB	15.082	180394	443.609	ppb	SV
2,4,6-TNT	18.674	171730	435.869	ppb	
TETRYL	19.539	105193	434.333	ppb	V
2,6-DNT	21.689	136725	446.364	ppb	V
2,4-DNT	22.747	258255	439.603	ppb	SV
2-NT	24.756	112451	481.738	ppb	
4-NT	26.919	93046	386.184	ppb	
4-A-2,6-DNT	29.112	115469	422.388	ppb	V
3-NT	29.025	124995	458.184	ppb	
2-A-4,6-DNT	31.353	186544	444.116	ppb	S

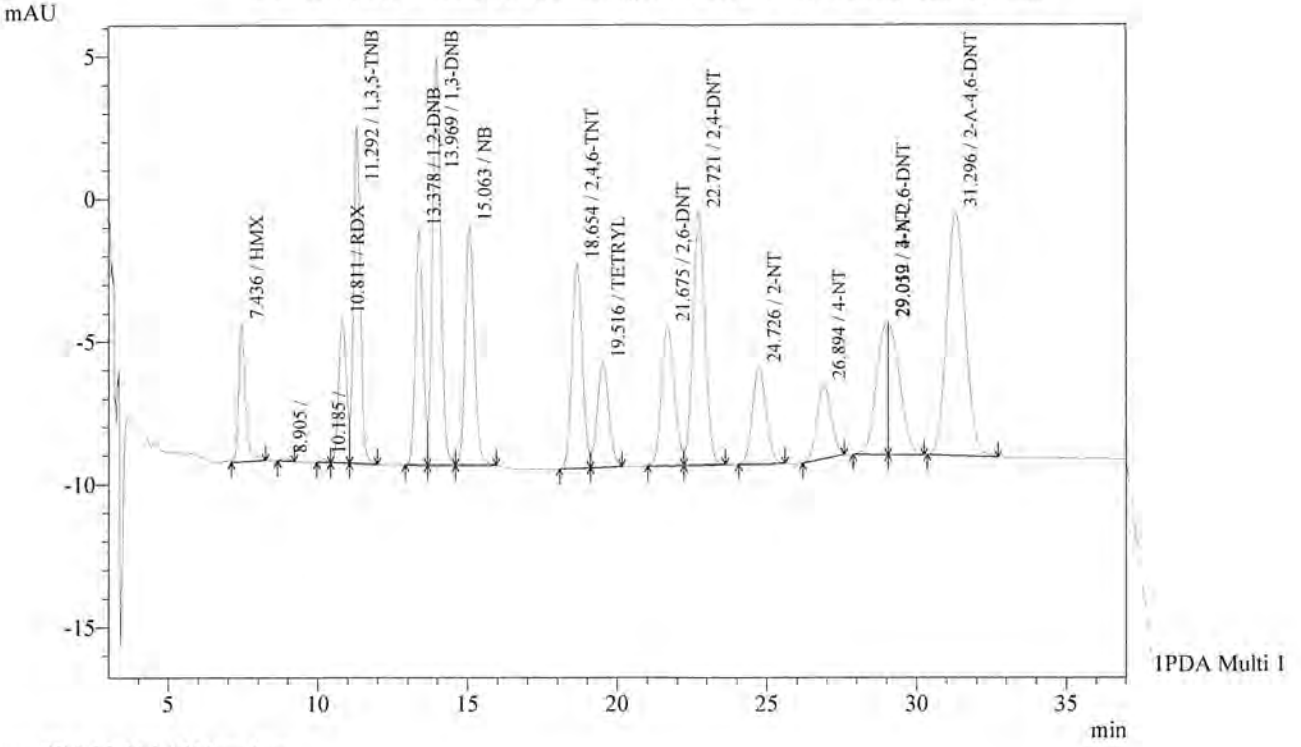
Sample Information

Acquired by	: Admin
Sample Name	: BDI0389-BSD1
Sample ID	:
Vail#	: 60
Injection Volume	: 100 uL
Data Filename	: BDI0389-BSD1_31.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXP2DR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/16/2023 5:51:17 AM
Data Processed	: 9/18/2023 1:56:51 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

BDI0389-BSD1 T:\Data6\HPLC2\2023Q3\SEP\091423EXP\BDI0389-BSD1_31.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.436	76627	468.697	ppb	V
RDX	10.811	89544	496.436	ppb	
1,3,5-TNB	11.292	190760	425.457	ppb	V
1,2-DNB	13.378	153709	589.497	ppb	
1,3-DNB	13.969	277012	434.589	ppb	V
NB	15.063	176880	434.967	ppb	SV
2,4,6-TNT	18.654	172716	438.370	ppb	
TETRYL	19.516	97368	402.025	ppb	V
2,6-DNT	21.675	146530	478.371	ppb	V
2,4-DNT	22.721	257746	438.736	ppb	SV
2-NT	24.726	107963	462.509	ppb	
4-NT	26.894	86979	361.004	ppb	
4-A-2,6-DNT	29.059	122450	447.926	ppb	V
3-NT	29.012	123462	452.565	ppb	
2-A-4,6-DNT	31.296	371766	885.086	ppb	

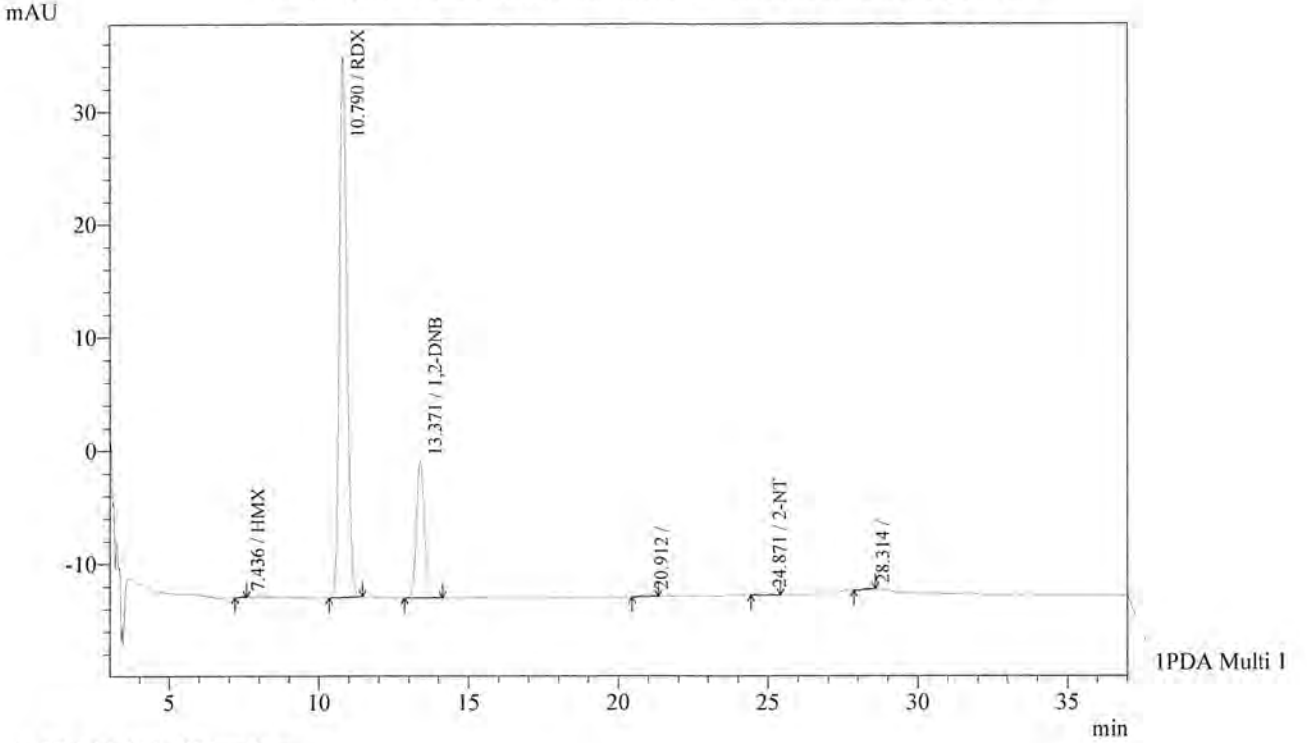
Sample Information

Acquired by	: Admin
Sample Name	: MDI0255-01
Sample ID	:
Vail#	: 61
Injection Volume	: 100 uL
Data Filename	: MDI0255-01_32.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXP2DR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/16/2023 6:28:56 AM
Data Processed	: 9/18/2023 1:57:13 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

MDI0255-01 T:\Data6\HPLC2\2023Q3\SEP\091423EXP\MDI0255-01_32.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.436	1626	9.946	ppb	
RDX	10.790	840428	4659.351	ppb	
1,3,5-TNB	0.000	0	0.000	ppb	V
1,2-DNB	13.371	226328	868.000	ppb	
1,3-DNB	0.000	0	0.000	ppb	V
NB	0.000	0	0.000	ppb	V
2,4,6-TNT	0.000	0	0.000	ppb	V
TETRYL	0.000	0	0.000	ppb	V
2,6-DNT	0.000	0	0.000	ppb	V
2,4-DNT	0.000	0	0.000	ppb	V
2-NT	24.871	6585	28.209	ppb	V
4-NT	0.000	0	0.000	ppb	V
4-A-2,6-DNT	0.000	0	0.000	ppb	V
3-NT	0.000	0	0.000	ppb	V
2-A-4,6-DNT	0.000	0	0.000	ppb	V

* RDX confirmed w/ LCMSMS. See appended data.

MER 9/20/23

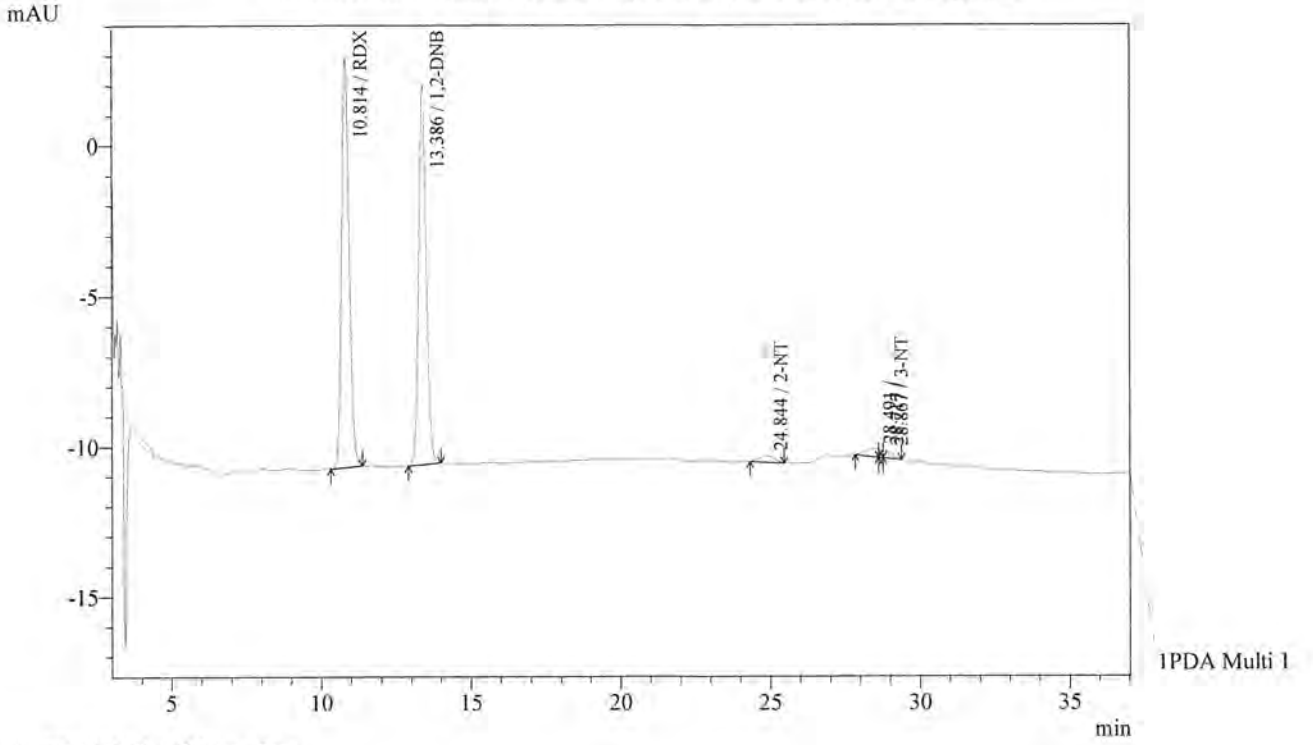
Sample Information

Acquired by	: Admin
Sample Name	: MDI0255-02
Sample ID	:
Vail#	: 62
Injection Volume	: 100 uL
Data Filename	: MDI0255-02_33.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXP2DRELM.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/16/2023 7:06:35 AM
Data Processed	: 9/20/2023 3:04:00 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

MDI0255-02 T:\Data6\HPLC2\2023Q3\SEP\091423EXP\MDI0255-02_33.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	0.000	0	0.000	ppb	V
RDX	10.814	239301	1326.691	ppb	V
1,3,5-TNB	0.000	0	0.000	ppb	V
1,2-DNB	13.386	233825	896.753	ppb	
1,3-DNB	0.000	0	0.000	ppb	V
NB	0.000	0	0.000	ppb	V
2,4,6-TNT	0.000	0	0.000	ppb	V
TETRYL	0.000	0	0.000	ppb	V
2,6-DNT	0.000	0	0.000	ppb	V
2,4-DNT	0.000	0	0.000	ppb	V
2-NT	24.844	7377	31.602	ppb	
4-NT	0.000	0	0.000	ppb	V
4-A-2,6-DNT	0.000	0	0.000	ppb	V
3-NT	28.867	4848	17.769	ppb	V
2-A-4,6-DNT	0.000	0	0.000	ppb	V

* RDX confirmed w/ LCMSMS. See appended data.
MCK 9/20/23

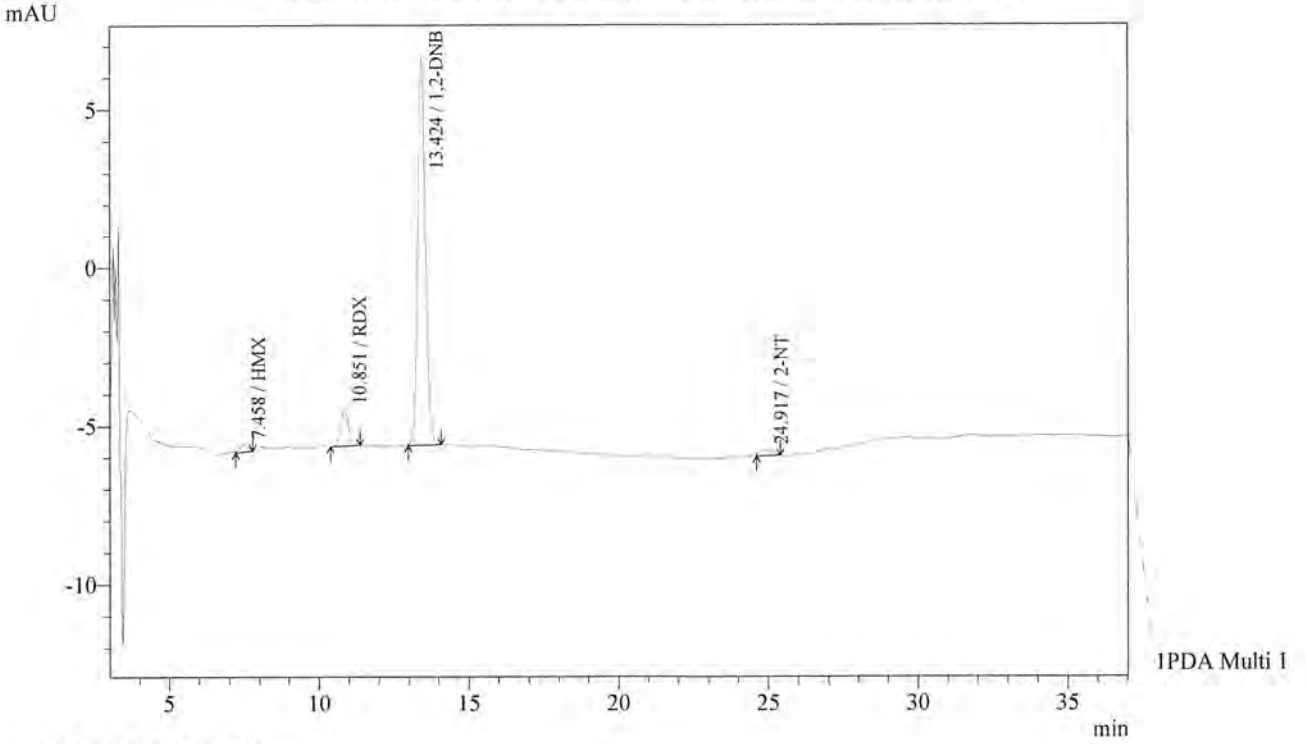
Sample Information

Acquired by	: Admin
Sample Name	: MDI0255-03
Sample ID	:
Vail#	: 63
Injection Volume	: 100 uL
Data Filename	: MDI0255-03_34.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXP2DR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/16/2023 7:44:15 AM
Data Processed	: 9/18/2023 1:57:57 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

MDI0255-03 T:\Data6\HPLC2\2023Q3\SEP\091423EXP\MDI0255-03_34.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.458	4629	28.314	ppb	V
RDX	10.851	20639	114.426	ppb	
1,3,5-TNB	0.000	0	0.000	ppb	V
1,2-DNB	13.424	227333	871.852	ppb	V
1,3-DNB	0.000	0	0.000	ppb	V
NB	0.000	0	0.000	ppb	V
2,4,6-TNT	0.000	0	0.000	ppb	V
TETRYL	0.000	0	0.000	ppb	V
2,6-DNT	0.000	0	0.000	ppb	V
2,4-DNT	0.000	0	0.000	ppb	V
2-NT	24.917	5837	25.007	ppb	V
4-NT	0.000	0	0.000	ppb	V
4-A-2,6-DNT	0.000	0	0.000	ppb	V
3-NT	0.000	0	0.000	ppb	V
2-A-4,6-DNT	0.000	0	0.000	ppb	V

* HMX/RDX confirmed w/ LCMSMS. See appended data.

MSR 9/20/23

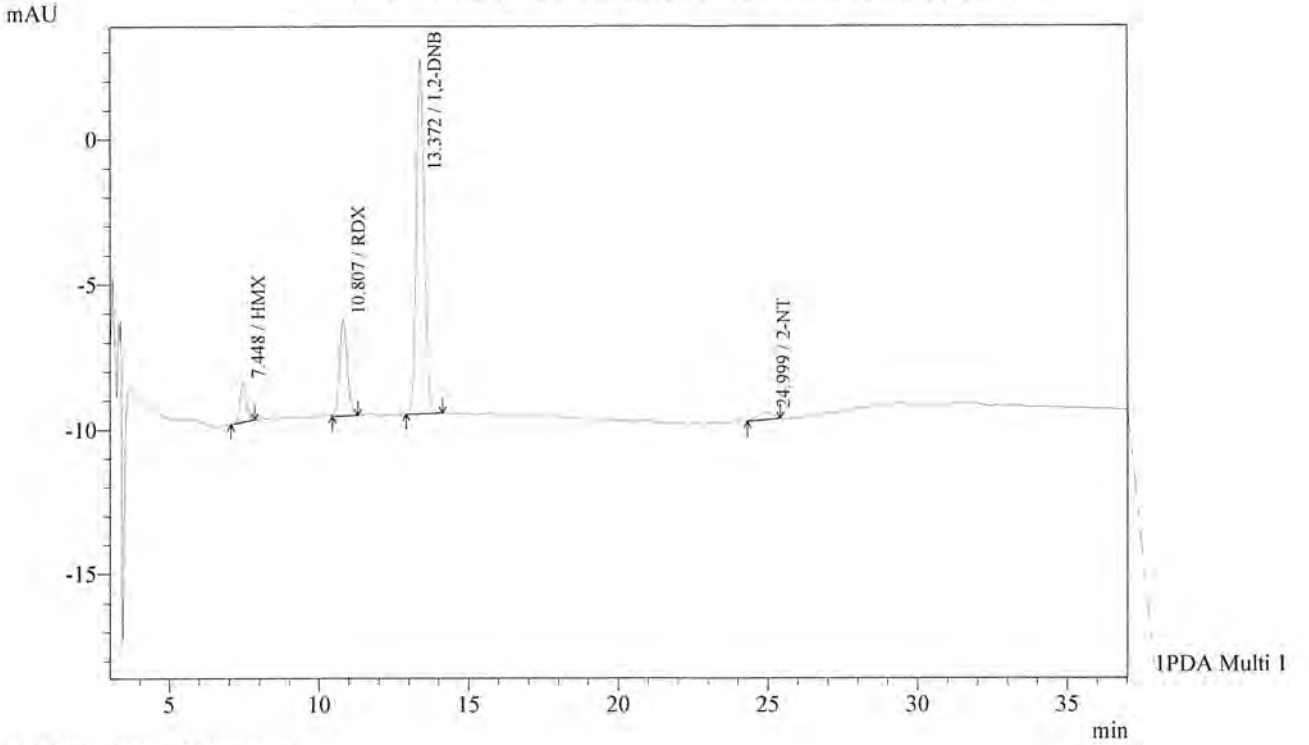
Sample Information

Acquired by	: Admin
Sample Name	: MDI0255-04
Sample ID	:
Vail#	: 64
Injection Volume	: 100 uL
Data Filename	: MDI0255-04_35.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXP2DR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/16/2023 8:21:55 AM
Data Processed	: 9/18/2023 1:58:19 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

MDI0255-04 T:\Data6\HPLC2\2023Q3\SEP\091423EXP\MDI0255-04_35.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.448	19623	120.023	ppb	V
RDX	10.807	58587	324.806	ppb	V
1,3,5-TNB	0.000	0	0.000	ppb	V
1,2-DNB	13.372	226350	868.084	ppb	S
1,3-DNB	0.000	0	0.000	ppb	V
NB	0.000	0	0.000	ppb	V
2,4,6-TNT	0.000	0	0.000	ppb	V
TETRYL	0.000	0	0.000	ppb	V
2,6-DNT	0.000	0	0.000	ppb	V
2,4-DNT	0.000	0	0.000	ppb	V
2-NT	24.999	9266	39.693	ppb	V
4-NT	0.000	0	0.000	ppb	V
4-A-2,6-DNT	0.000	0	0.000	ppb	V
3-NT	0.000	0	0.000	ppb	V
2-A-4,6-DNT	0.000	0	0.000	ppb	V

* HMX/RDX confirmed w/ LCMSMS see appended data.

MDK 9/20/23

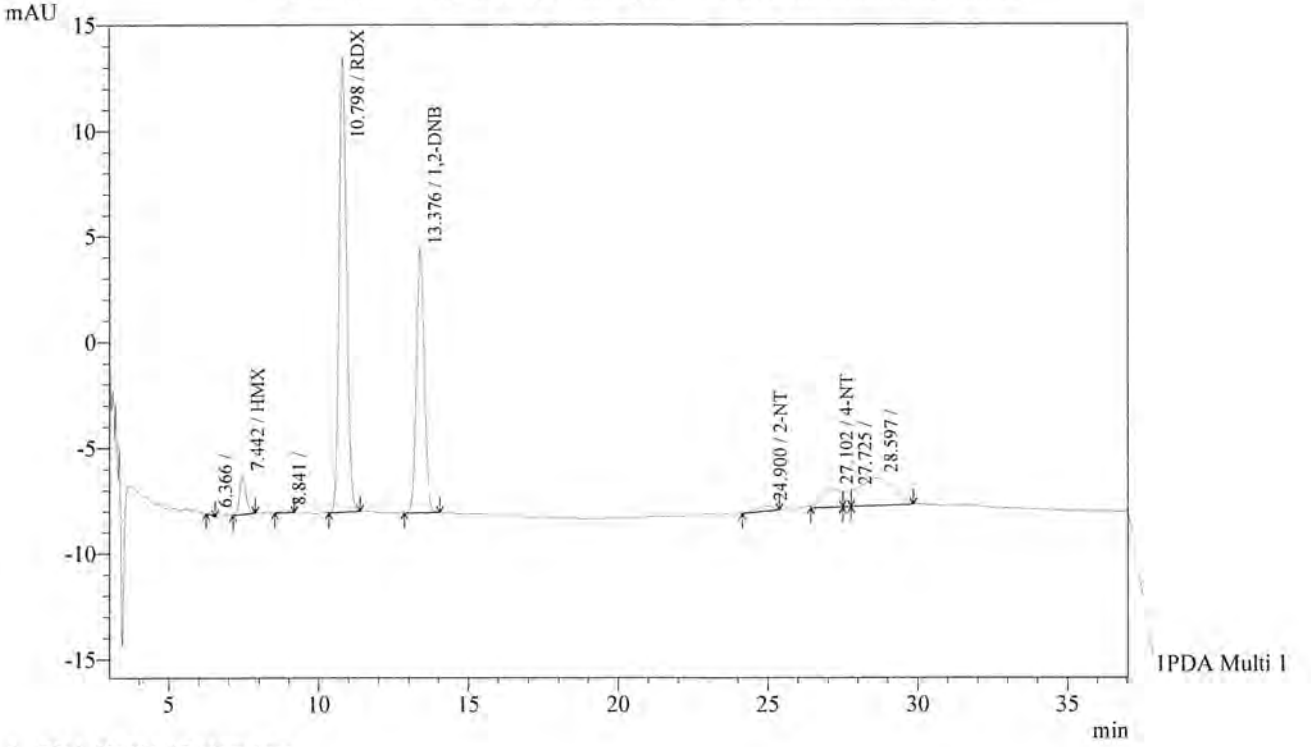
Sample Information

Acquired by	: Admin
Sample Name	: MDI0255-05
Sample ID	:
Vail#	: 65
Injection Volume	: 100 uL
Data Filename	: MDI0255-05_36.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXP2DR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/16/2023 8:59:36 AM
Data Processed	: 9/18/2023 1:58:41 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

MDI0255-05 T:\Data6\HPLC2\2023Q3\SEP\091423EXP\MDI0255-05_36.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.442	26689	163.248	ppb	V
RDX	10.798	374899	2078.452	ppb	V
1,3,5-TNB	0.000	0	0.000	ppb	V
1,2-DNB	13.376	230547	884.180	ppb	
1,3-DNB	0.000	0	0.000	ppb	V
NB	0.000	0	0.000	ppb	V
2,4,6-TNT	0.000	0	0.000	ppb	V
TETRYL	0.000	0	0.000	ppb	V
2,6-DNT	0.000	0	0.000	ppb	V
2,4-DNT	0.000	0	0.000	ppb	V
2-NT	24.900	9328	39.960	ppb	V
4-NT	27.102	37991	157.681	ppb	V
4-A-2,6-DNT	0.000	0	0.000	ppb	V
3-NT	0.000	0	0.000	ppb	V
2-A-4,6-DNT	0.000	0	0.000	ppb	V

* HMX/RDX confirmed w/ LCMSMS, see appended data. MAK 9/20/23

& 4-NT deconfirmed by GCMS. See appended packet. MDL 10/16/23

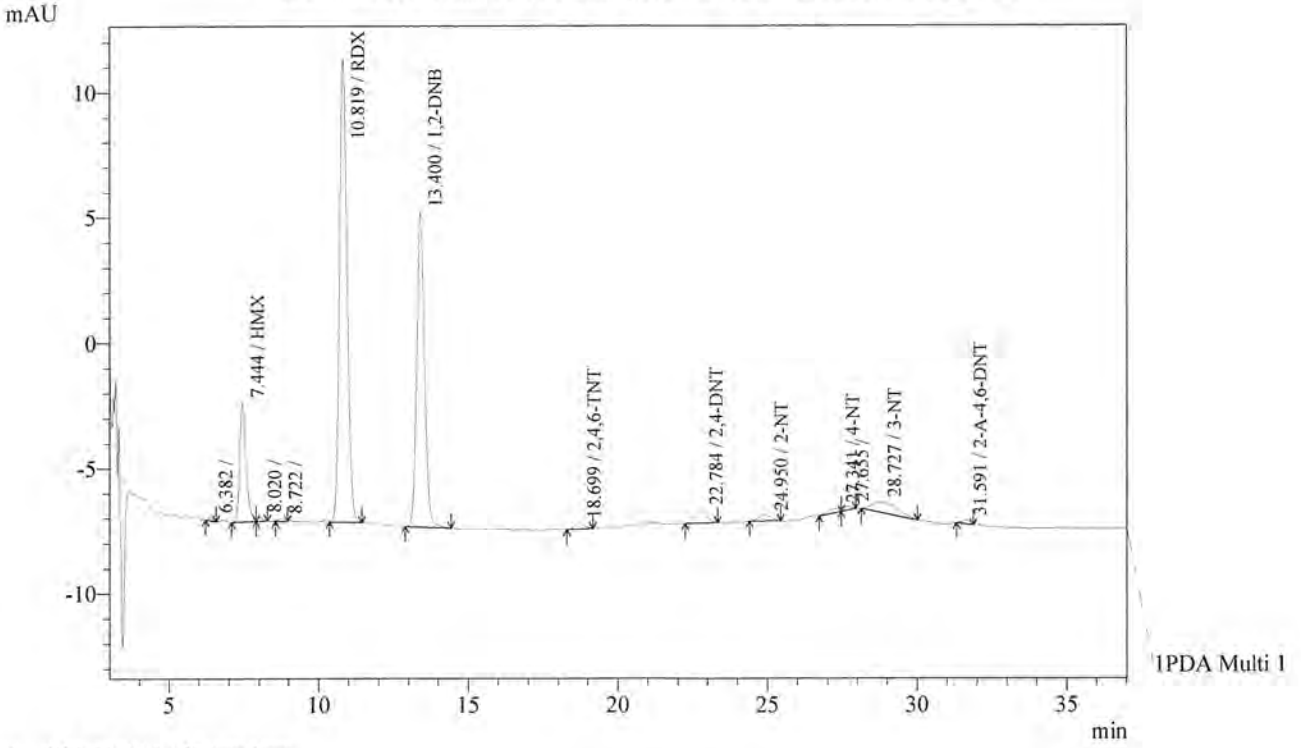
Sample Information

Acquired by	: Admin
Sample Name	: MDI0255-06
Sample ID	:
Vail#	: 66
Injection Volume	: 100 uL
Data Filename	: MDI0255-06_37.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXP2DR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/16/2023 9:37:14 AM
Data Processed	: 9/18/2023 1:59:03 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

MDI0255-06 T:\Data6\HPLC2\2023Q3\SEP\091423EXP\MDI0255-06_37.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.444	70635	432.049	ppb	
RDX	10.819	325178	1802.797	ppb	V
1,3,5-TNB	0.000	0	0.000	ppb	V
1,2-DNB	13.400	238466	914.552	ppb	
1,3-DNB	0.000	0	0.000	ppb	V
NB	0.000	0	0.000	ppb	V
2,4,6-TNT	18.699	5304	13.462	ppb	
TETRYL	0.000	0	0.000	ppb	V
2,6-DNT	0.000	0	0.000	ppb	V
2,4-DNT	22.784	14759	25.123	ppb	
2-NT	24.950	7006	30.013	ppb	
4-NT	27.341	5706	23.681	ppb	V
4-A-2,6-DNT	0.000	0	0.000	ppb	V
3-NT	28.727	25108	92.037	ppb	
2-A-4,6-DNT	31.591	3210	7.642	ppb	

* HMX/RDX confirmed w/ LCMSMS. See appended data. MEK 9/20/23

2,4,6-TNT " " " " "

2,4 DNT

* 3-NT deconfirmed w/ LCMS. See appended data. MEK 10/16/23

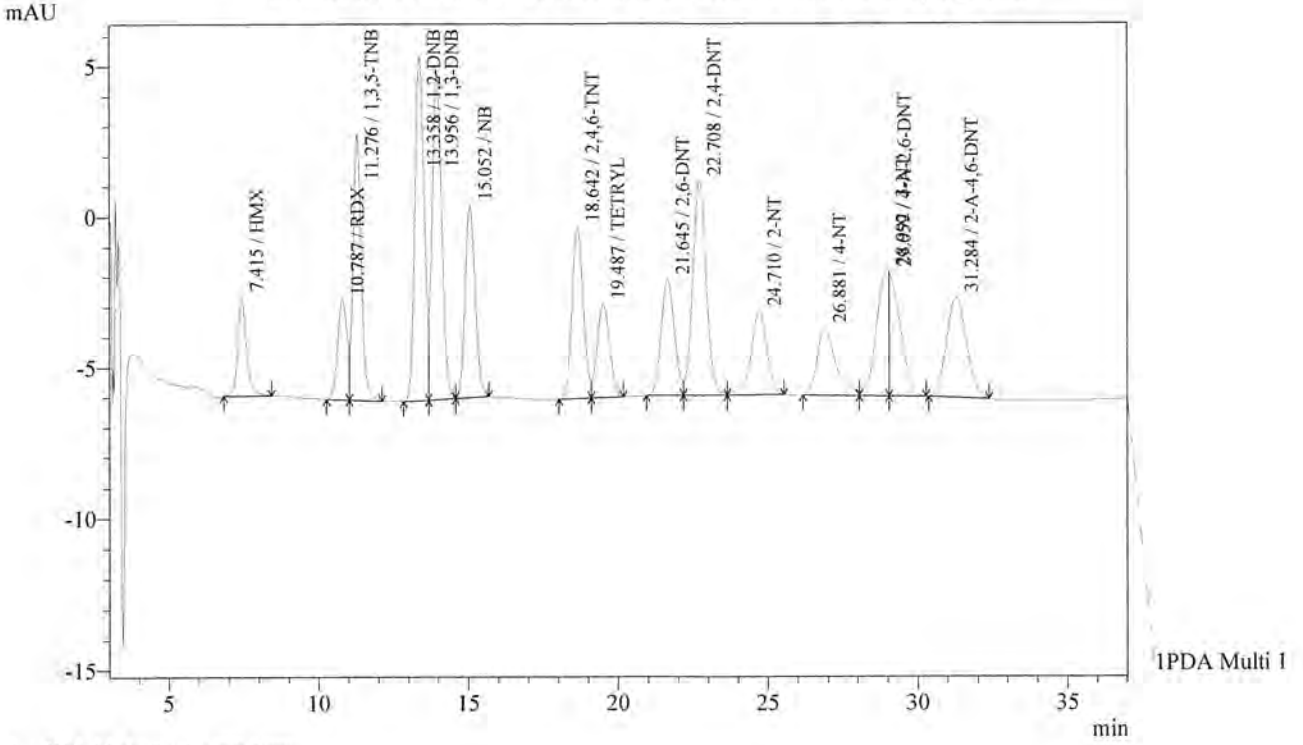
Sample Information

Acquired by	: Admin
Sample Name	: CCV 400 ppb
Sample ID	:
Vail#	: 4
Injection Volume	: 100 uL
Data Filename	: CCV 400 ppb_38.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXP2DR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/16/2023 10:14:55 AM
Data Processed	: 9/18/2023 1:59:25 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

CCV 400 ppb T:\Data6\HPLC2\2023Q3\SEP\091423EXP\CCV 400 ppb_38.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.415	67740	414.337	ppb	S
RDX	10.787	72911	404.219	ppb	
1,3,5-TNB	11.276	169364	377.737	ppb	V
1,2-DNB	13.358	250504	960.718	ppb	
1,3-DNB	13.956	241732	379.241	ppb	V
NB	15.052	148616	365.463	ppb	V
2,4,6-TNT	18.642	149785	380.170	ppb	
TETRYL	19.487	90265	372.698	ppb	V
2,6-DNT	21.645	119608	390.480	ppb	
2,4-DNT	22.708	228554	389.046	ppb	SV
2-NT	24.710	102560	439.365	ppb	V
4-NT	26.881	98728	409.765	ppb	
4-A-2,6-DNT	29.059	106190	388.445	ppb	V
3-NT	28.992	117588	431.034	ppb	V
2-A-4,6-DNT	31.284	152705	363.554	ppb	

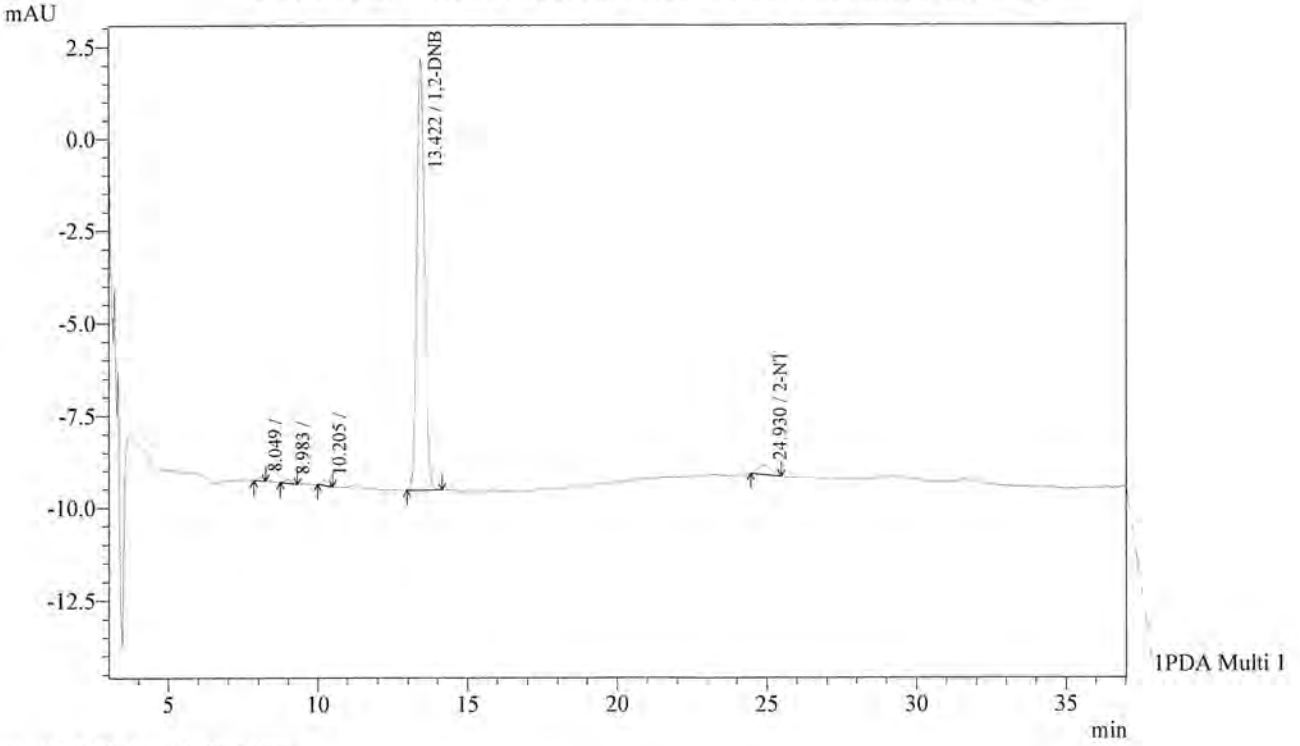
Sample Information

Acquired by	: Admin
Sample Name	: BDI0064-BLK2
Sample ID	:
Vail#	: 67
Injection Volume	: 100 uL
Data Filename	: BDI0064-BLK2_39.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXP2DR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/16/2023 10:52:33 AM
Data Processed	: 9/18/2023 1:59:47 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

BDI0064-BLK2 T:\Data6\HPLC2\2023Q3\SEP\091423EXP\BDI0064-BLK2_39.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	0.000	0	0.000	ppb	V
RDX	0.000	0	0.000	ppb	V
1,3,5-TNB	0.000	0	0.000	ppb	V
1,2-DNB	13.422	210261	806.382	ppb	S
1,3-DNB	0.000	0	0.000	ppb	V
NB	0.000	0	0.000	ppb	V
2,4,6-TNT	0.000	0	0.000	ppb	V
TETRYL	0.000	0	0.000	ppb	V
2,6-DNT	0.000	0	0.000	ppb	V
2,4-DNT	0.000	0	0.000	ppb	V
2-NT	24.930	7988	34.222	ppb	
4-NT	0.000	0	0.000	ppb	V
4-A-2,6-DNT	0.000	0	0.000	ppb	V
3-NT	0.000	0	0.000	ppb	V
2-A-4,6-DNT	0.000	0	0.000	ppb	V

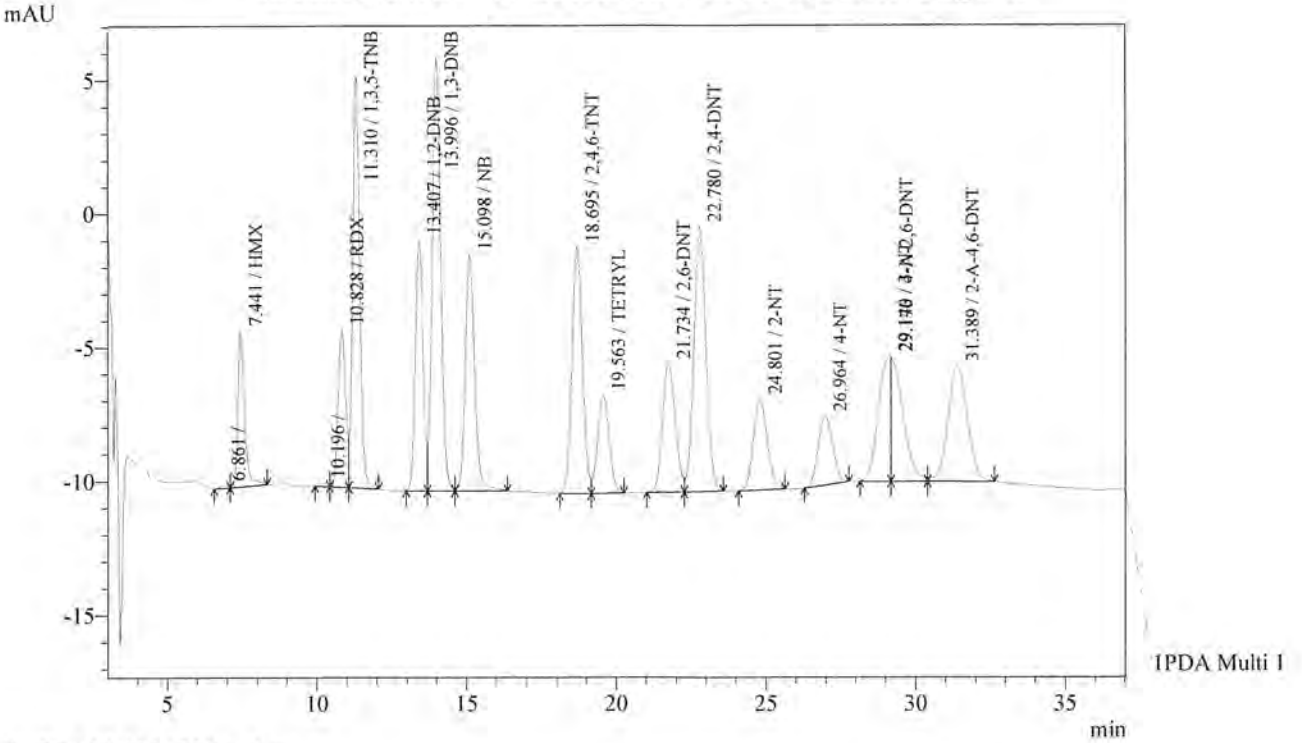
Sample Information

Acquired by	: Admin
Sample Name	: BDI0064-~~BS2~~ BS3
Sample ID	:
Vail#	: 68
Injection Volume	: 100 uL
Data Filename	: BDI0064-BS2_40.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXP2DR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/16/2023 11:30:11 AM
Data Processed	: 9/18/2023 2:00:09 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

BDI0064-BS2 T:\Data6\HPLC2\2023Q3\SEP\091423EXP\BDI0064-BS2_40.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.441	91292	558.397	ppb	SV
RDX	10.828	102753	569.665	ppb	
1,3,5-TNB	11.310	248611	554.482	ppb	V
1,2-DNB	13.407	176153	675.573	ppb	V
1,3-DNB	13.996	315976	495.717	ppb	V
NB	15.098	192240	472.742	ppb	SV
2,4,6-TNT	18.695	223708	567.795	ppb	V
TETRYL	19.563	97816	403.874	ppb	V
2,6-DNT	21.734	142775	466.113	ppb	
2,4-DNT	22.780	288448	490.998	ppb	V
2-NT	24.801	109267	468.097	ppb	V
4-NT	26.964	86823	360.355	ppb	
4-A-2,6-DNT	29.176	127238	465.438	ppb	SV
3-NT	29.140	130320	477.704	ppb	
2-A-4,6-DNT	31.389	191749	456.507	ppb	V

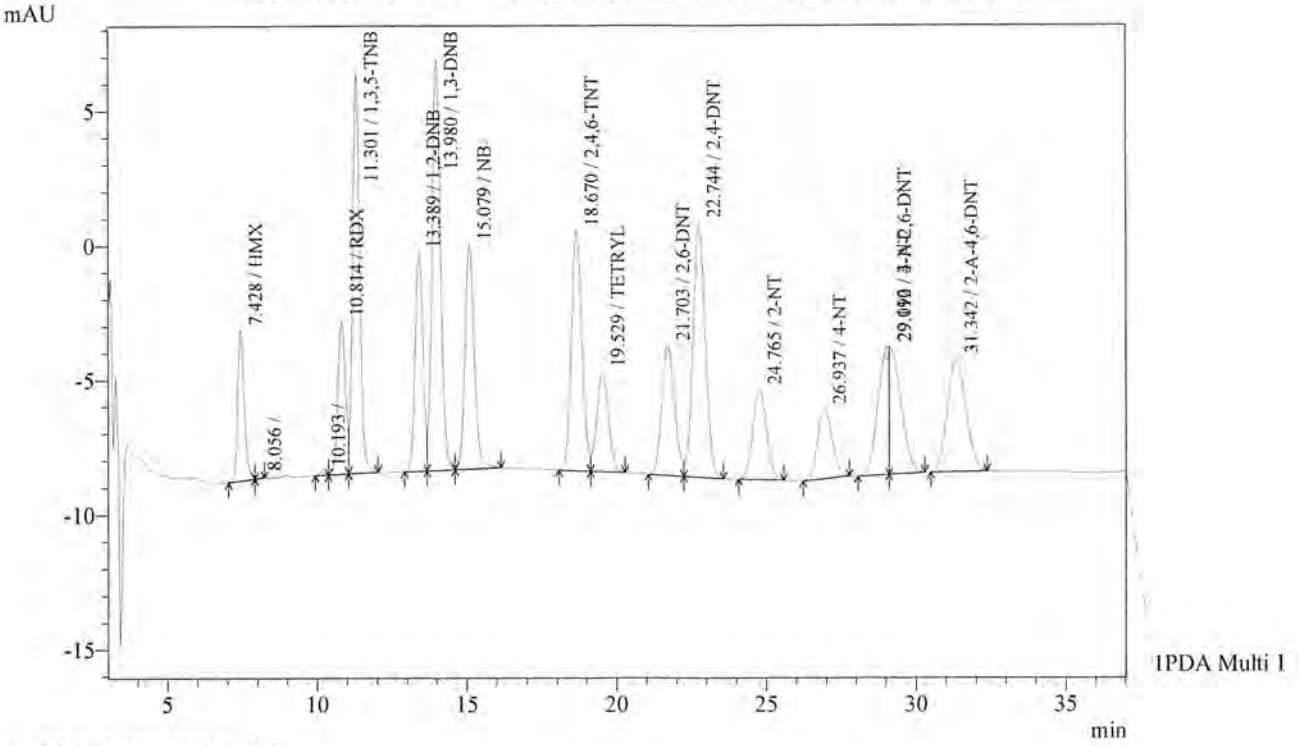
Sample Information

Acquired by	: Admin
Sample Name	: BDI0064-~~BSD2~~ BSD3
Sample ID	:
Vail#	: 69
Injection Volume	: 100 uL
Data Filename	: BDI0064-BSD2_41.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXP2DR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/16/2023 12:07:51 PM
Data Processed	: 9/18/2023 2:00:30 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

BDI0064-BSD2 T:\Data6\HPLC2\2023Q3\SEP\091423EXP\BDI0064-BSD2_41.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.428	84411	516.308	ppb	V
RDX	10.814	100214	555.588	ppb	V
1,3,5-TNB	11.301	241515	538.658	ppb	V
1,2-DNB	13.389	151760	582.021	ppb	
1,3-DNB	13.980	298643	468.525	ppb	V
NB	15.079	177648	436.858	ppb	SV
2,4,6-TNT	18.670	217044	550.880	ppb	
TETRYL	19.529	99631	411.368	ppb	V
2,6-DNT	21.703	142656	465.725	ppb	
2,4-DNT	22.744	275946	469.717	ppb	V
2-NT	24.765	106955	458.192	ppb	
4-NT	26.937	87523	363.259	ppb	
4-A-2,6-DNT	29.112	126868	464.086	ppb	V
3-NT	29.090	119345	437.475	ppb	
2-A-4,6-DNT	31.342	180734	430.284	ppb	

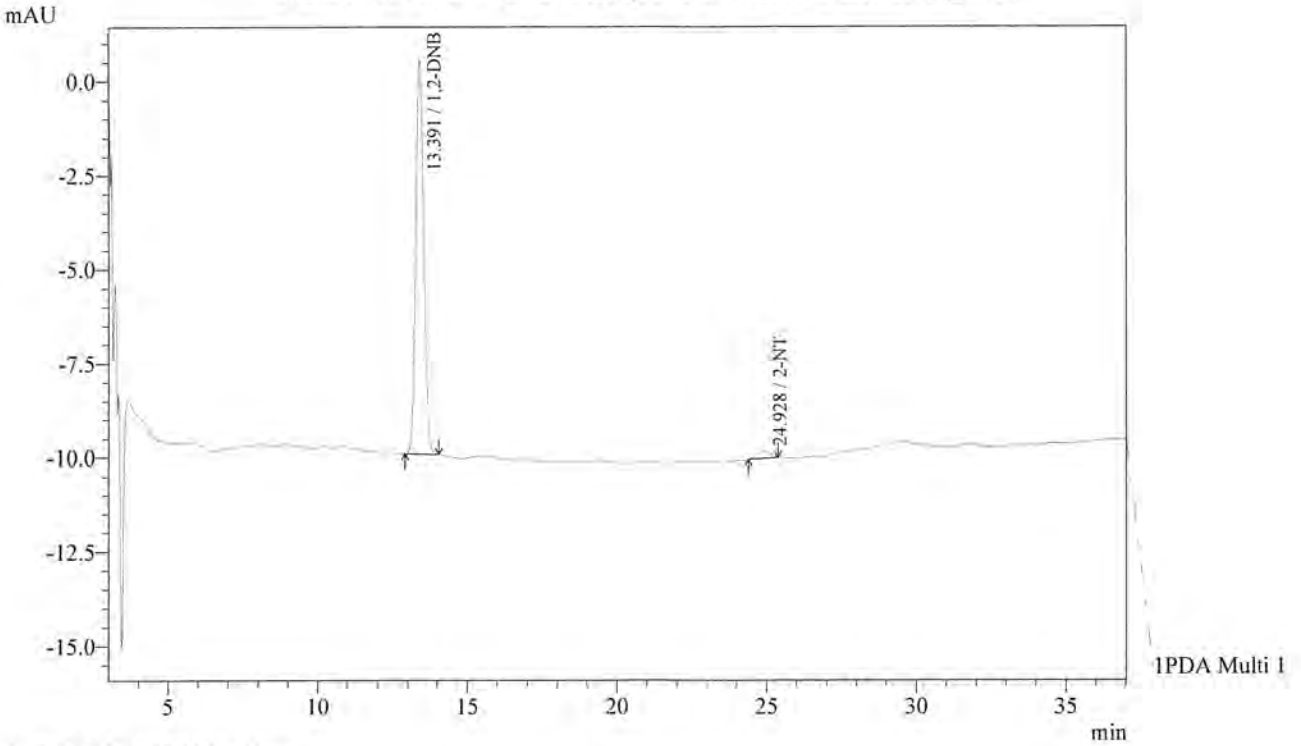
Sample Information

Acquired by	: Admin
Sample Name	: MDI0025-10
Sample ID	:
Vail#	: 70
Injection Volume	: 100 uL
Data Filename	: MDI0025-10_42.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXP2DR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/16/2023 12:45:31 PM
Data Processed	: 9/18/2023 2:00:53 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

MDI0025-10 T:\Data6\HPLC2\2023Q3\SEP\091423EXP\MDI0025-10_42.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	0.000	0	0.000	ppb	V
RDX	0.000	0	0.000	ppb	V
1,3,5-TNB	0.000	0	0.000	ppb	V
1,2-DNB	13.391	196057	751.905	ppb	
1,3-DNB	0.000	0	0.000	ppb	V
NB	0.000	0	0.000	ppb	V
2,4,6-TNT	0.000	0	0.000	ppb	V
TETRYL	0.000	0	0.000	ppb	V
2,6-DNT	0.000	0	0.000	ppb	V
2,4-DNT	0.000	0	0.000	ppb	V
2-NT	24.928	6096	26.117	ppb	
4-NT	0.000	0	0.000	ppb	V
4-A-2,6-DNT	0.000	0	0.000	ppb	V
3-NT	0.000	0	0.000	ppb	V
2-A-4,6-DNT	0.000	0	0.000	ppb	V

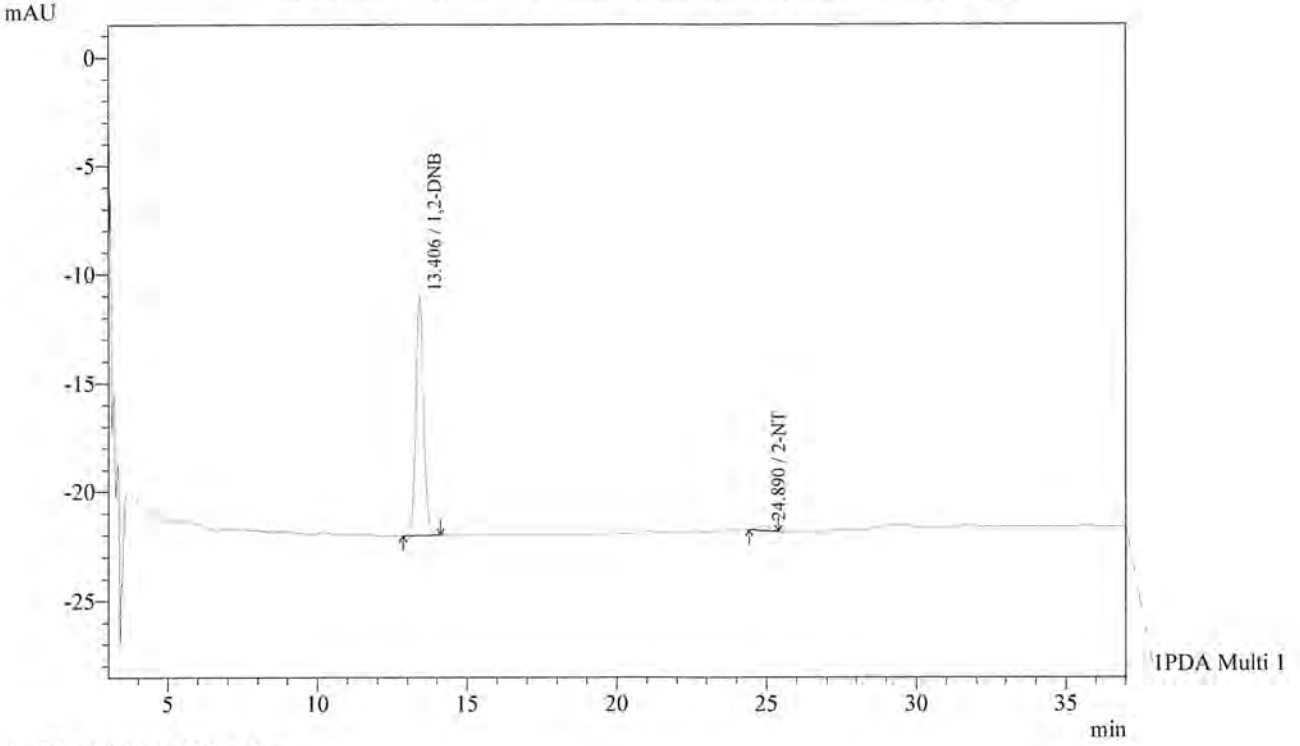
Sample Information

Acquired by	: Admin
Sample Name	: MDI0025-11
Sample ID	:
Vail#	: 71
Injection Volume	: 100 uL
Data Filename	: MDI0025-11_43.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXP2DR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/16/2023 1:23:11 PM
Data Processed	: 9/18/2023 2:01:15 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

MDI0025-11 T:\Data6\HPLC2\2023Q3\SEP\091423EXP\MDI0025-11_43.lcd



1 PDA Multi I / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	0.000	0	0.000	ppb	V
RDX	0.000	0	0.000	ppb	V
1,3,5-TNB	0.000	0	0.000	ppb	V
1,2-DNB	13.406	206262	791.045	ppb	
1,3-DNB	0.000	0	0.000	ppb	V
NB	0.000	0	0.000	ppb	V
2,4,6-TNT	0.000	0	0.000	ppb	V
TETRYL	0.000	0	0.000	ppb	V
2,6-DNT	0.000	0	0.000	ppb	V
2,4-DNT	0.000	0	0.000	ppb	V
2-NT	24.890	6317	27.064	ppb	
4-NT	0.000	0	0.000	ppb	V
4-A-2,6-DNT	0.000	0	0.000	ppb	V
3-NT	0.000	0	0.000	ppb	V
2-A-4,6-DNT	0.000	0	0.000	ppb	V

Sample Information

Acquired by	: Admin
Sample Name	: MDI0036-01
Sample ID	:
Vail#	: 72
Injection Volume	: 100 uL
Data Filename	: MDI0036-01_44.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXP2DR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/16/2023 2:00:53 PM
Data Processed	: 9/18/2023 2:01:37 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

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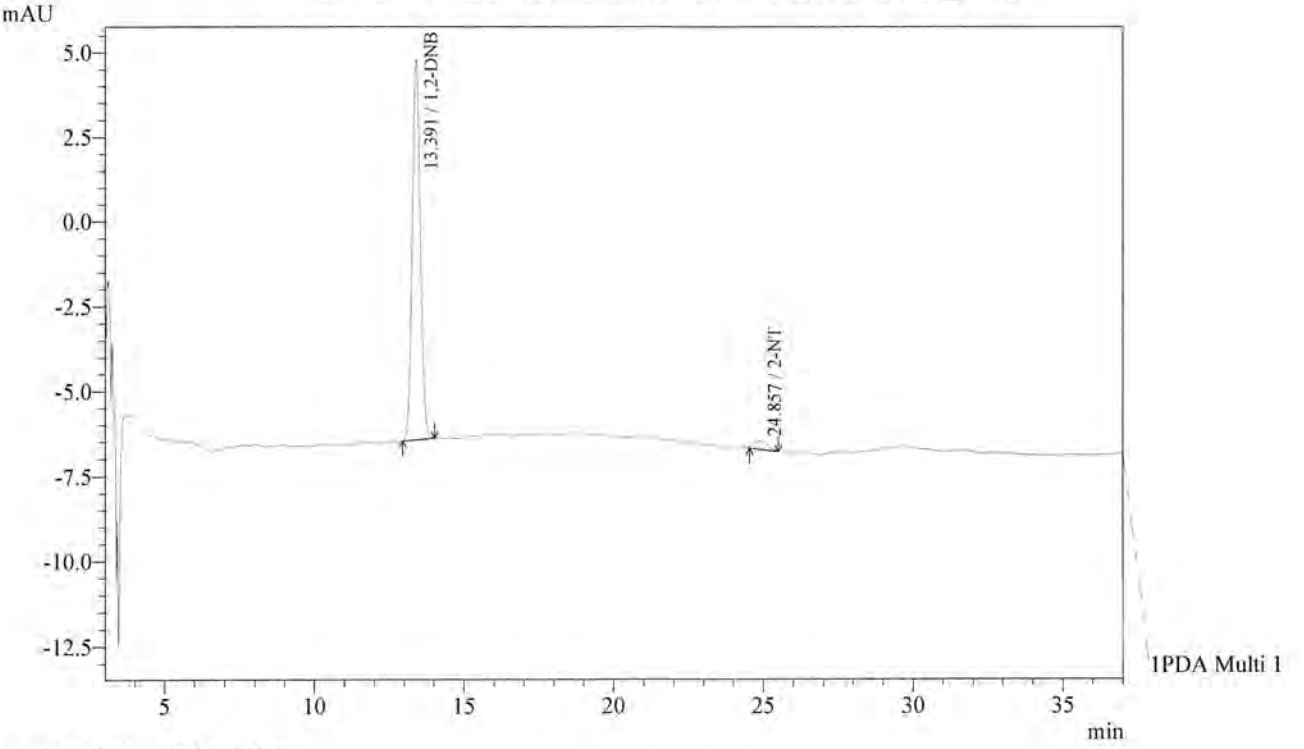


1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	0.000	0	0.000	ppb	V
RDX	0.000	0	0.000	ppb	V
1,3,5-TNB	0.000	0	0.000	ppb	V
1,2-DNB	13.391	209801	804.616	ppb	
1,3-DNB	0.000	0	0.000	ppb	V
NB	0.000	0	0.000	ppb	V
2,4,6-TNT	0.000	0	0.000	ppb	V
TETRYL	0.000	0	0.000	ppb	V
2,6-DNT	0.000	0	0.000	ppb	V
2,4-DNT	0.000	0	0.000	ppb	V
2-NT	24.857	7786	33.354	ppb	V
4-NT	0.000	0	0.000	ppb	V
4-A-2,6-DNT	0.000	0	0.000	ppb	V
3-NT	0.000	0	0.000	ppb	V
2-A-4,6-DNT	0.000	0	0.000	ppb	V

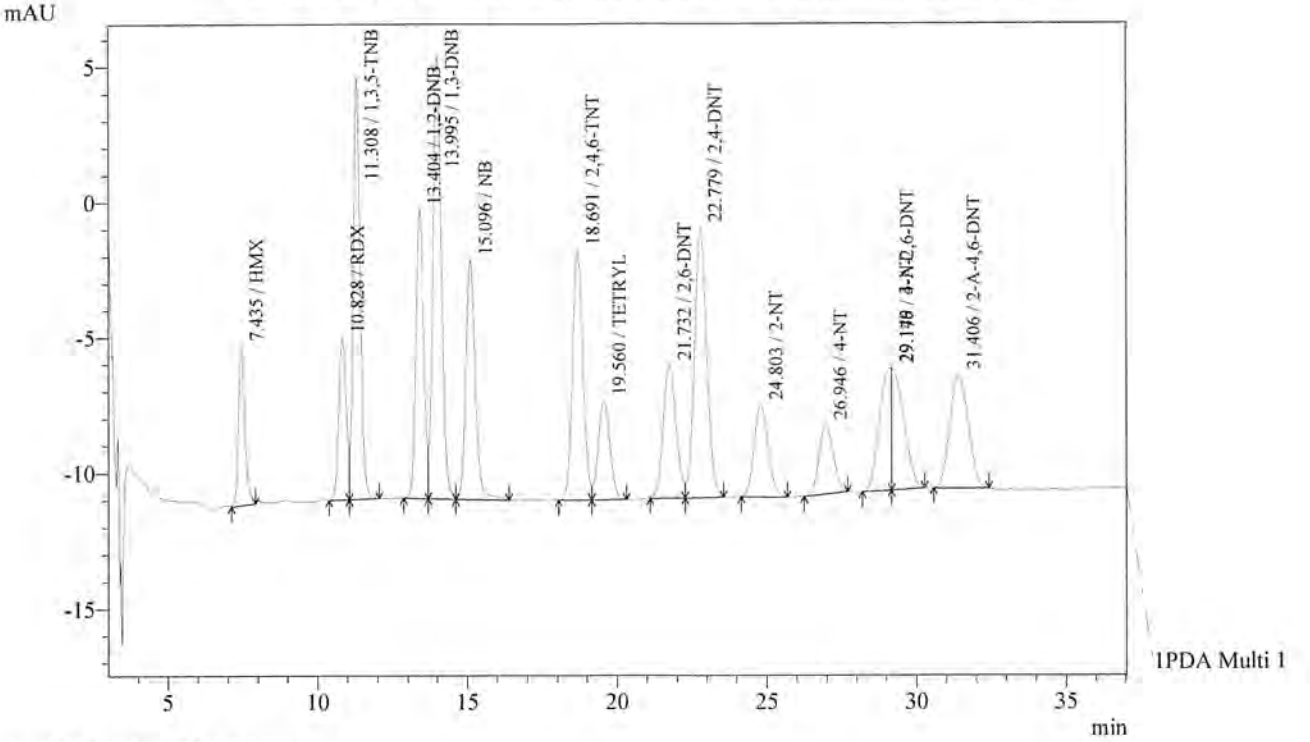
Sample Information

Acquired by	: Admin
Sample Name	: MDI0036-01~~MS~~ MS4
Sample ID	:
Vail#	: 73 MDI0064-MS4
Injection Volume	: 100 uL
Data Filename	: MDI0036-01MS_45.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXP2DR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/16/2023 2:38:34 PM
Data Processed	: 9/18/2023 2:01:58 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

MDI0036-01MS T:\Data6\HPLC2\2023Q3\SEP\091423EXP\MDI0036-01MS_45.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.435	87913	537.728	ppb	V
RDX	10.828	104370	578.631	ppb	V
1,3,5-TNB	11.308	251517	560.964	ppb	V
1,2-DNB	13.404	200649	769.516	ppb	
1,3-DNB	13.995	321304	504.076	ppb	V
NB	15.096	193480	475.790	ppb	SV
2,4,6-TNT	18.691	223511	567.293	ppb	
TETRYL	19.560	98844	408.120	ppb	V
2,6-DNT	21.732	147327	480.974	ppb	V
2,4-DNT	22.779	293806	500.119	ppb	V
2-NT	24.803	109711	470.001	ppb	V
4-NT	26.946	84381	350.221	ppb	
4-A-2,6-DNT	29.176	124454	455.253	ppb	V
3-NT	29.149	122037	447.342	ppb	
2-A-4,6-DNT	31.406	177860	423.441	ppb	

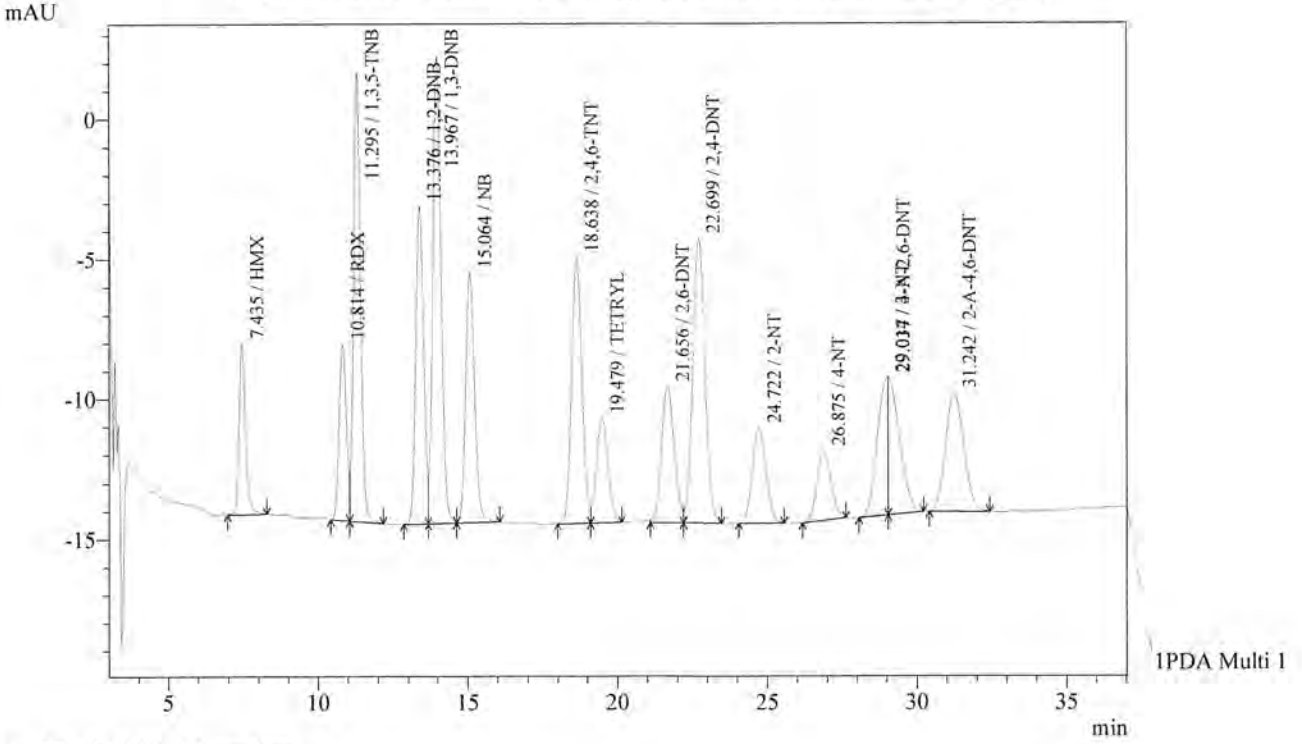
Sample Information

Acquired by	: Admin
Sample Name	: MSI0036-01~~MSD~~ MSD4
Sample ID	: BDI0064 -MSD4
Vail#	: 74
Injection Volume	: 100 uL
Data Filename	: MSI0036-01MSD_46.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXP2DR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/16/2023 3:16:13 PM
Data Processed	: 9/18/2023 2:02:21 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

MSI0036-01MSD T:\Data6\HPLC2\2023Q3\SEP\091423EXP\MSI0036-01MSD_46.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.435	91265	558.232	ppb	SV
RDX	10.814	106342	589.564	ppb	
1,3,5-TNB	11.295	255492	569.831	ppb	V
1,2-DNB	13.376	207943	797.491	ppb	
1,3-DNB	13.967	318313	499.384	ppb	V
NB	15.064	184102	452.729	ppb	SV
2,4,6-TNT	18.638	228513	579.990	ppb	V
TETRYL	19.479	98092	405.016	ppb	V
2,6-DNT	21.656	142399	464.886	ppb	V
2,4-DNT	22.699	292470	497.844	ppb	V
2-NT	24.722	106286	455.324	ppb	
4-NT	26.875	81021	336.273	ppb	
4-A-2,6-DNT	29.037	127844	467.656	ppb	V
3-NT	29.014	118169	433.164	ppb	
2-A-4,6-DNT	31.242	178093	423.996	ppb	S

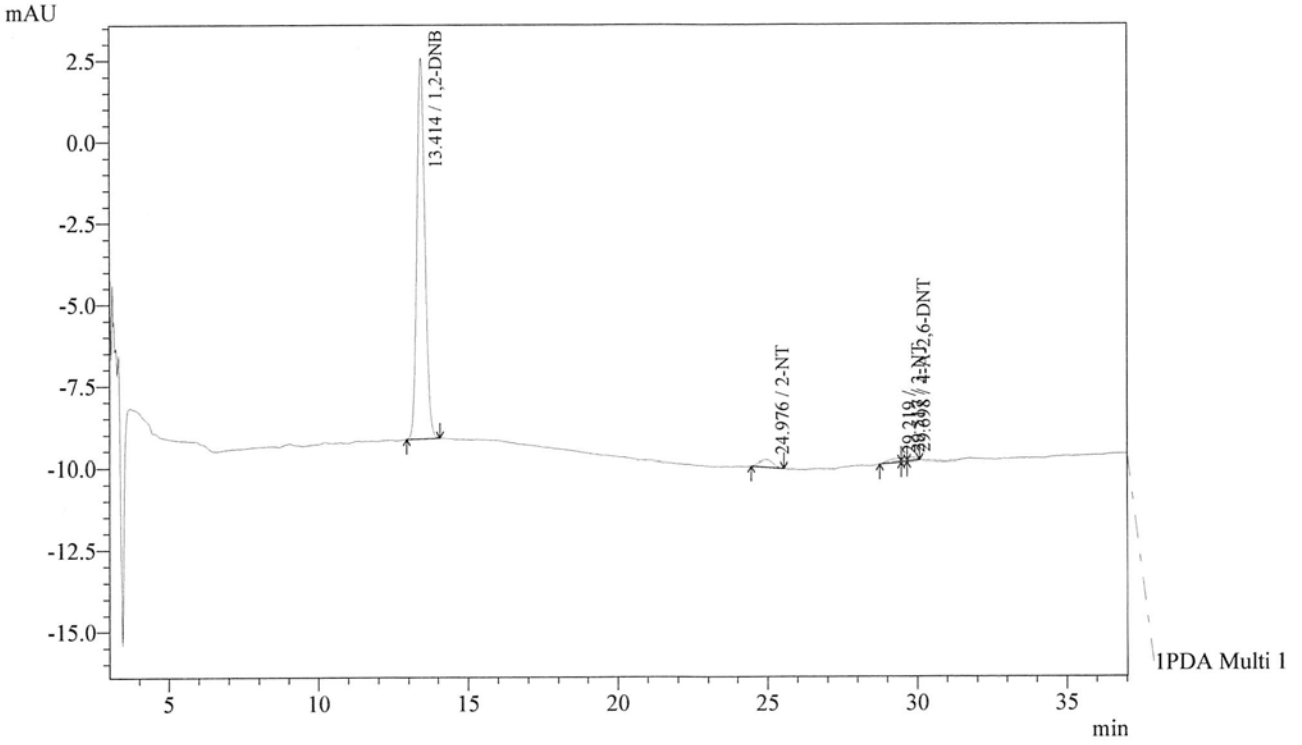
Sample Information

Acquired by	: Admin
Sample Name	: MDI0036-02
Sample ID	:
Vail#	: 75
Injection Volume	: 100 uL
Data Filename	: MDI0036-02_47.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXP2DR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/16/2023 3:53:55 PM
Data Processed	: 9/18/2023 2:02:43 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

MDI0036-02 T:\Data6\HPLC2\2023Q3\SEP\091423EXP\MDI0036-02_47.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	0.000	0	0.000	ppb	V
RDX	0.000	0	0.000	ppb	V
1,3,5-TNB	0.000	0	0.000	ppb	V
1,2-DNB	13.414	218005	836.080	ppb	
1,3-DNB	0.000	0	0.000	ppb	V
NB	0.000	0	0.000	ppb	V
2,4,6-TNT	0.000	0	0.000	ppb	V
TETRYL	0.000	0	0.000	ppb	V
2,6-DNT	0.000	0	0.000	ppb	V
2,4-DNT	0.000	0	0.000	ppb	V
2-NT	24.976	6917	29.631	ppb	
4-NT	0.000	0	0.000	ppb	V
4-A-2,6-DNT	29.698	1860	6.803	ppb	V
3-NT	29.517	1255	4.601	ppb	V
2-A-4,6-DNT	0.000	0	0.000	ppb	V

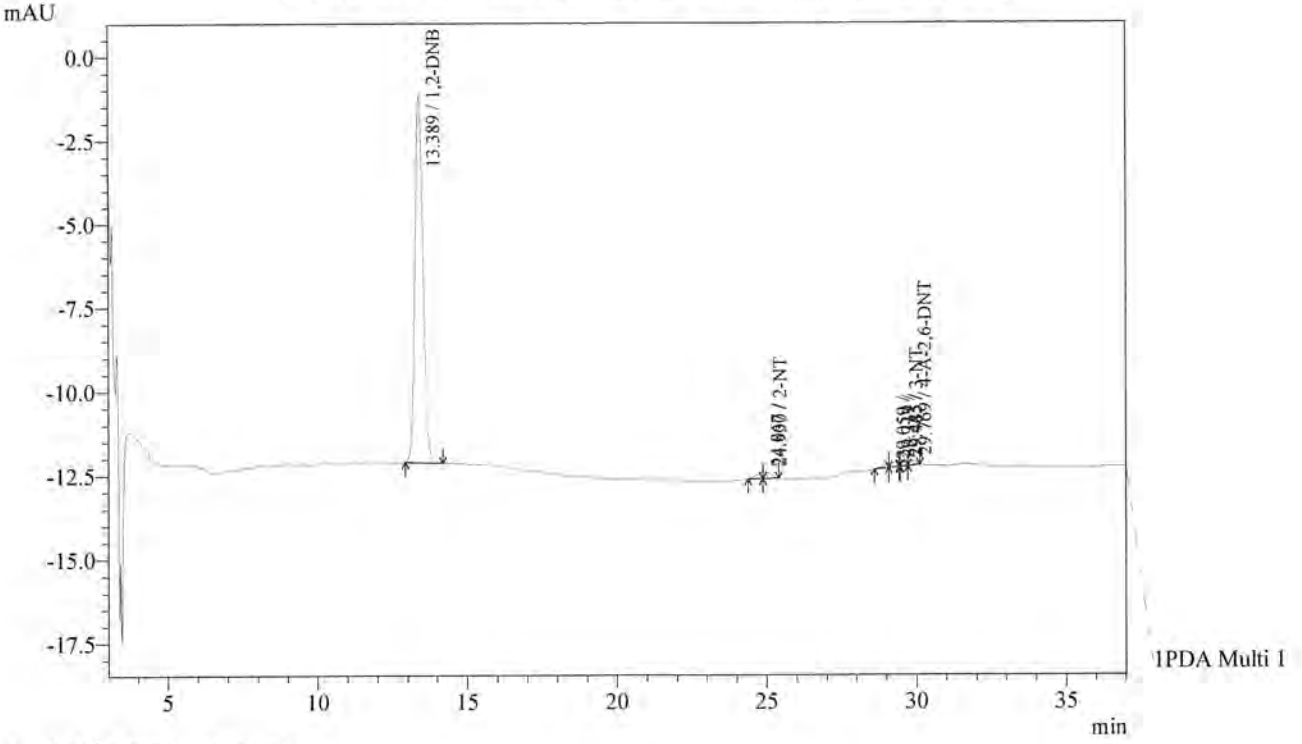
Sample Information

Acquired by	: Admin
Sample Name	: MDI0036-03
Sample ID	:
Vail#	: 76
Injection Volume	: 100 uL
Data Filename	: MDI0036-03_48.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXP2DR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/16/2023 4:31:34 PM
Data Processed	: 9/18/2023 2:03:05 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

MDI0036-03 T:\Data6\HPLC2\2023Q3\SEP\091423EXP\MDI0036-03_48.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	0.000	0	0.000	ppb	V
RDX	0.000	0	0.000	ppb	V
1,3,5-TNB	0.000	0	0.000	ppb	V
1,2-DNB	13.389	207358	795.248	ppb	S
1,3-DNB	0.000	0	0.000	ppb	V
NB	0.000	0	0.000	ppb	V
2,4,6-TNT	0.000	0	0.000	ppb	V
TETRYL	0.000	0	0.000	ppb	V
2,6-DNT	0.000	0	0.000	ppb	V
2,4-DNT	0.000	0	0.000	ppb	V
2-NT	24.930	3554	15.226	ppb	V
4-NT	0.000	0	0.000	ppb	V
4-A-2,6-DNT	29.769	2519	9.214	ppb	V
3-NT	29.485	1918	7.030	ppb	V
2-A-4,6-DNT	0.000	0	0.000	ppb	V

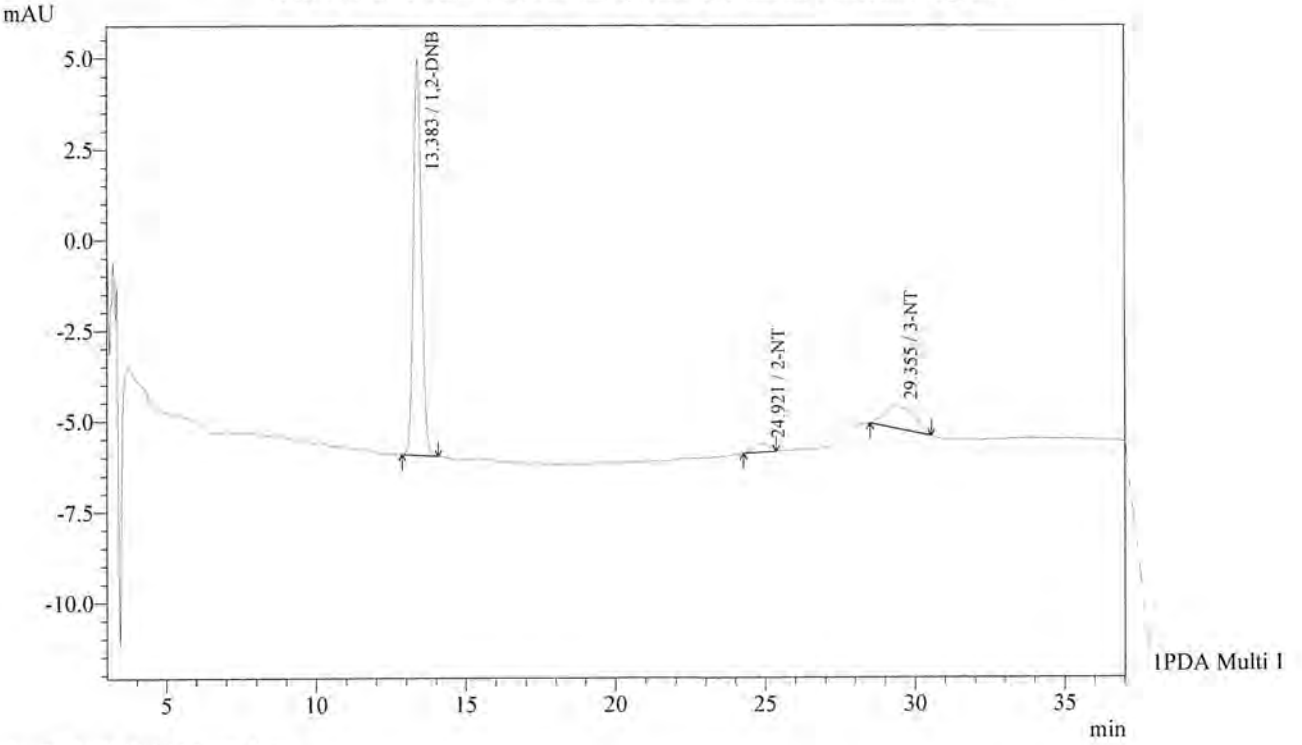
Sample Information

Acquired by	: Admin
Sample Name	: MDI0036-05
Sample ID	:
Vail#	: 77
Injection Volume	: 100 uL
Data Filename	: MDI0036-05_49.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXP2DR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/16/2023 5:09:13 PM
Data Processed	: 9/18/2023 2:03:27 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

MDI0036-05 T:\Data6\HPLC2\2023Q3\SEP\091423EXP\MDI0036-05_49.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	0.000	0	0.000	ppb	V
RDX	0.000	0	0.000	ppb	V
1,3,5-TNB	0.000	0	0.000	ppb	V
1,2-DNB	13.383	204744	785.221	ppb	
1,3-DNB	0.000	0	0.000	ppb	V
NB	0.000	0	0.000	ppb	V
2,4,6-TNT	0.000	0	0.000	ppb	V
TETRYL	0.000	0	0.000	ppb	V
2,6-DNT	0.000	0	0.000	ppb	V
2,4-DNT	0.000	0	0.000	ppb	V
2-NT	24.921	7931	33.975	ppb	
4-NT	0.000	0	0.000	ppb	V
4-A-2,6-DNT	0.000	0	0.000	ppb	V
3-NT	29.355	44002	161.293	ppb	
2-A-4,6-DNT	0.000	0	0.000	ppb	V

3-NT deconfirmed by GCMS. See appended packet.
MDR 10/16/23

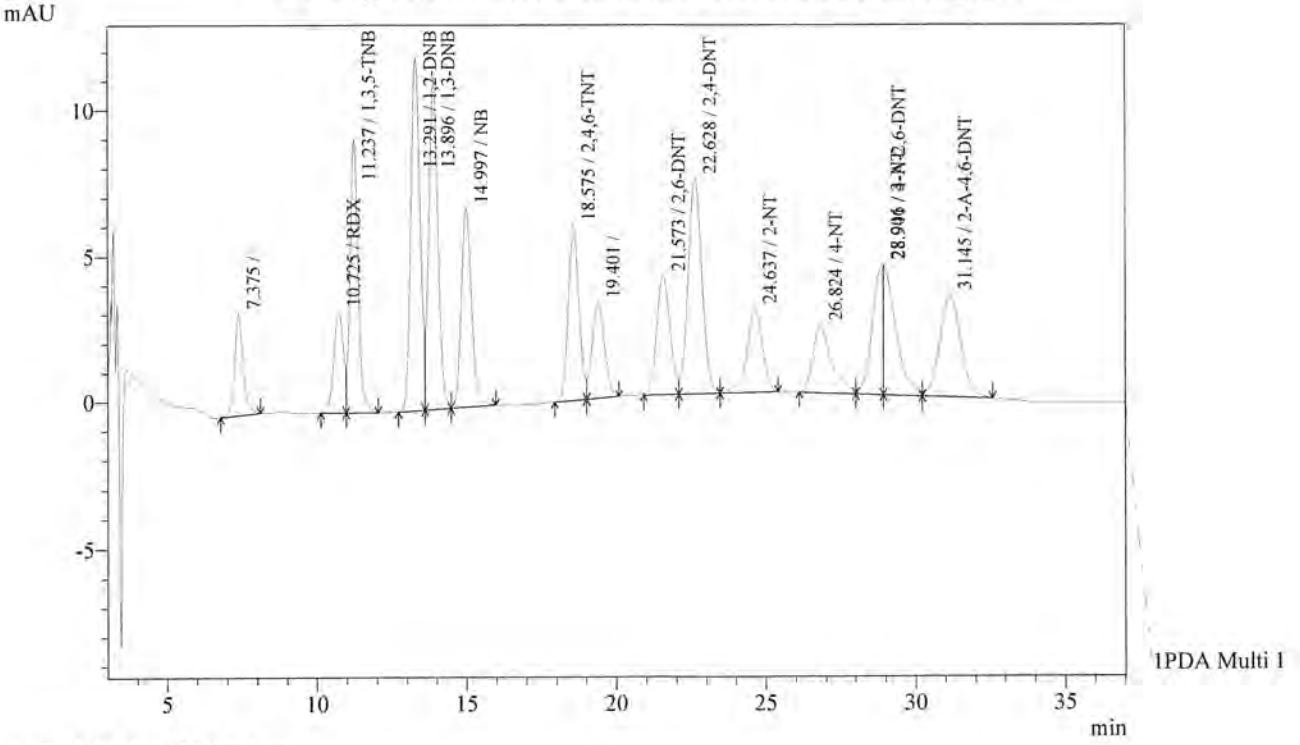
Sample Information

Acquired by	: Admin
Sample Name	: CCV 400 ppb
Sample ID	:
Vail#	: 4
Injection Volume	: 100 uL
Data Filename	: CCV 400 ppb_50.lcd
Method Filename	: 50B_250mm091323.lcm
Batch Filename	: 091423EXP2DR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 9/16/2023 5:46:56 PM
Data Processed	: 9/18/2023 2:03:49 PM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

CCV 400 ppb T:\Data6\HPLC2\2023Q3\SEP\091423EXP\CCV 400 ppb_50.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	0.000	0	0.000	ppb	V
RDX	10.725	78183	433.446	ppb	
1,3,5-TNB	11.237	175430	391.265	ppb	V
1,2-DNB	13.291	261303	1002.132	ppb	
1,3-DNB	13.896	250796	393.461	ppb	V
NB	14.997	160785	395.389	ppb	SV
2,4,6-TNT	18.575	155301	394.170	ppb	
TETRYL	0.000	0	0.000	ppb	V
2,6-DNT	21.573	125810	410.728	ppb	V
2,4-DNT	22.628	235751	401.297	ppb	V
2-NT	24.637	104634	448.250	ppb	V
4-NT	26.824	101089	419.565	ppb	
4-A-2,6-DNT	28.941	126898	464.194	ppb	V
3-NT	28.906	110703	405.795	ppb	V
2-A-4,6-DNT	31.145	169774	404.191	ppb	V

	Sample Name	Sample Type	Acquisition Date	File Name	Dilution Factor	Analyte Peak Name	Analyte Peak Area (counts)	Analyte Concentration (ng/mL)	Calculated Concentration (ng/mL)	Accuracy (%)
1	1000	Standard	9/20/2023 8:24:2	092023_explosives\	1.00	1,3,5-TNB	1.20e+005	1000.	944.	94.4
2	1000	Standard	9/20/2023 8:24:2	092023_explosives\	1.00	2,4,6-TNT	8.93e+004	1000.	1010.	101.
3	1000	Standard	9/20/2023 8:24:2	092023_explosives\	1.00	2,4,6-TNT Q2	4.28e+005	1000.	1030.	103.
4	1000	Standard	9/20/2023 8:24:2	092023_explosives\	1.00	2,4-DNT	5.31e+005	1000.	1020.	102.
5	1000	Standard	9/20/2023 8:24:2	092023_explosives\	1.00	2,6-DNT	5.98e+004	1000.	984.	98.4
6	1000	Standard	9/20/2023 8:24:2	092023_explosives\	1.00	2-A-4,6-DNT	1.20e+006	1000.	1020.	102.
7	1000	Standard	9/20/2023 8:24:2	092023_explosives\	1.00	4-A-2,6-DNT	5.39e+005	1000.	1010.	101.
8	1000	Standard	9/20/2023 8:24:2	092023_explosives\	1.00	4-A-2,6-DNT1	1.85e+005	1000.	1020.	102.
9	1000	Standard	9/20/2023 8:24:2	092023_explosives\	1.00	HMX	8.62e+004	1000.	990.	99.0
10	1000	Standard	9/20/2023 8:24:2	092023_explosives\	1.00	HMX Q2	3.19e+005	1000.	978.	97.8
11	1000	Standard	9/20/2023 8:24:2	092023_explosives\	1.00	RDX	1.79e+006	1000.	1020.	102.
12	1000	Standard	9/20/2023 8:24:2	092023_explosives\	1.00	TETRYL	2.19e+005	1000.	1060.	106.
13	1000	Standard	9/20/2023 8:24:2	092023_explosives\	1.00	TETRYL Q2	3.89e+006	1000.	969.	96.9
14	800	Standard	9/20/2023 8:35:5	092023_explosives\	1.00	1,3,5-TNB	1.25e+005	800.	981.	123.
15	800	Standard	9/20/2023 8:35:5	092023_explosives\	1.00	2,4,6-TNT	6.17e+004	800.	788.	98.4
16	800	Standard	9/20/2023 8:35:5	092023_explosives\	1.00	2,4,6-TNT Q2	2.93e+005	800.	767.	95.8
17	800	Standard	9/20/2023 8:35:5	092023_explosives\	1.00	2,4-DNT	3.78e+005	800.	773.	96.6
18	800	Standard	9/20/2023 8:35:5	092023_explosives\	1.00	2,6-DNT	5.57e+004	800.	909.	114.
19	800	Standard	9/20/2023 8:35:5	092023_explosives\	1.00	2-A-4,6-DNT	9.24e+005	800.	776.	96.9
20	800	Standard	9/20/2023 8:35:5	092023_explosives\	1.00	4-A-2,6-DNT	3.92e+005	800.	776.	97.1
21	800	Standard	9/20/2023 8:35:5	092023_explosives\	1.00	4-A-2,6-DNT1	1.37e+005	800.	781.	97.6
22	800	Standard	9/20/2023 8:35:5	092023_explosives\	1.00	HMX	7.13e+004	800.	846.	106.
23	800	Standard	9/20/2023 8:35:5	092023_explosives\	1.00	HMX Q2	2.66e+005	800.	859.	107.
24	800	Standard	9/20/2023 8:35:5	092023_explosives\	1.00	RDX	1.27e+006	800.	770.	96.2
25	800	Standard	9/20/2023 8:35:5	092023_explosives\	1.00	TETRYL	1.84e+005	800.	795.	99.3
26	800	Standard	9/20/2023 8:35:5	092023_explosives\	1.00	TETRYL Q2	3.73e+006	800.	889.	111.
27	600	Standard	9/20/2023 8:47:2	092023_explosives\	1.00	1,3,5-TNB	5.71e+004	600.	417.	69.5
28	600	Standard	9/20/2023 8:47:2	092023_explosives\	1.00	2,4,6-TNT	4.01e+004	600.	578.	96.4
29	600	Standard	9/20/2023 8:47:2	092023_explosives\	1.00	2,4,6-TNT Q2	2.07e+005	600.	579.	96.4

	Sample Name	Sample Type	Acquisition Date	File Name	Dilution Factor	Analyte Peak Name	Analyte Peak Area (counts)	Analyte Concentration (ng/mL)	Calculated Concentration (ng/mL)	Accuracy (%)
30	600	Standard	9/20/2023 8:47:2	092023_explosives\	1.00	2,4-DNT	2.71e+005	600.	579.	96.4
31	600	Standard	9/20/2023 8:47:2	092023_explosives\	1.00	2,6-DNT	2.82e+004	600.	434.	72.4
32	600	Standard	9/20/2023 8:47:2	092023_explosives\	1.00	2-A-4,6-DNT	7.10e+005	600.	590.	98.3
33	600	Standard	9/20/2023 8:47:2	092023_explosives\	1.00	4-A-2,6-DNT	2.92e+005	600.	601.	100.
34	600	Standard	9/20/2023 8:47:2	092023_explosives\	1.00	4-A-2,6-DNT1	9.88e+004	600.	580.	96.7
35	600	Standard	9/20/2023 8:47:2	092023_explosives\	1.00	HMX	4.18e+004	600.	537.	89.4
36	600	Standard	9/20/2023 8:47:2	092023_explosives\	1.00	HMX Q2	1.47e+005	600.	546.	90.9
37	600	Standard	9/20/2023 8:47:2	092023_explosives\	1.00	RDX	9.32e+005	600.	592.	98.7
38	600	Standard	9/20/2023 8:47:2	092023_explosives\	1.00	TETRYL	1.37e+005	600.	528.	88.0
39	600	Standard	9/20/2023 8:47:2	092023_explosives\	1.00	TETRYL Q2	2.75e+006	600.	548.	91.3
40	400	Standard	9/20/2023 8:58:4	092023_explosives\	1.00	1,3,5-TNB	6.54e+004	400.	480.	120.
41	400	Standard	9/20/2023 8:58:4	092023_explosives\	1.00	2,4,6-TNT	2.69e+004	400.	426.	107.
42	400	Standard	9/20/2023 8:58:4	092023_explosives\	1.00	2,4,6-TNT Q2	1.45e+005	400.	428.	107.
43	400	Standard	9/20/2023 8:58:4	092023_explosives\	1.00	2,4-DNT	1.89e+005	400.	419.	105.
44	400	Standard	9/20/2023 8:58:4	092023_explosives\	1.00	2,6-DNT	3.11e+004	400.	482.	120.
45	400	Standard	9/20/2023 8:58:4	092023_explosives\	1.00	2-A-4,6-DNT	5.01e+005	400.	410.	102.
46	400	Standard	9/20/2023 8:58:4	092023_explosives\	1.00	4-A-2,6-DNT	1.93e+005	400.	411.	103.
47	400	Standard	9/20/2023 8:58:4	092023_explosives\	1.00	4-A-2,6-DNT1	6.80e+004	400.	408.	102.
48	400	Standard	9/20/2023 8:58:4	092023_explosives\	1.00	HMX	3.18e+004	400.	422.	105.
49	400	Standard	9/20/2023 8:58:4	092023_explosives\	1.00	HMX Q2	1.05e+005	400.	416.	104.
50	400	Standard	9/20/2023 8:58:4	092023_explosives\	1.00	RDX	6.24e+005	400.	415.	104.
51	400	Standard	9/20/2023 8:58:4	092023_explosives\	1.00	TETRYL	1.13e+005	400.	414.	104.
52	400	Standard	9/20/2023 8:58:4	092023_explosives\	1.00	TETRYL Q2	2.15e+006	400.	395.	98.7
53	100	Standard	9/20/2023 9:10:1	092023_explosives\	1.00	1,3,5-TNB	1.12e+004	100.	89.6	89.6
54	100	Standard	9/20/2023 9:10:1	092023_explosives\	1.00	2,4,6-TNT	5.78e+003	100.	97.0	97.0
55	100	Standard	9/20/2023 9:10:1	092023_explosives\	1.00	2,4,6-TNT Q2	3.38e+004	100.	106.	106.
56	100	Standard	9/20/2023 9:10:1	092023_explosives\	1.00	2,4-DNT	4.86e+004	100.	112.	112.
57	100	Standard	9/20/2023 9:10:1	092023_explosives\	1.00	2,6-DNT	6.80e+003	100.	96.6	96.6
58	100	Standard	9/20/2023 9:10:1	092023_explosives\	1.00	2-A-4,6-DNT	1.46e+005	100.	107.	107.

	Sample Name	Sample Type	Acquisition Date	File Name	Dilution Factor	Analyte Peak Name	Analyte Peak Area (counts)	Analyte Concentration (ng/mL)	Calculated Concentration (ng/mL)	Accuracy (%)
59	100	Standard	9/20/2023 9:10:1	092023_explosives\	1.00	4-A-2,6-DNT	4.67e+004	100.	97.6	97.6
60	100	Standard	9/20/2023 9:10:1	092023_explosives\	1.00	4-A-2,6-DNT1	1.97e+004	100.	118.	118.
61	100	Standard	9/20/2023 9:10:1	092023_explosives\	1.00	HMX	6.92e+003	100.	108.	108.
62	100	Standard	9/20/2023 9:10:1	092023_explosives\	1.00	HMX Q2	2.15e+004	100.	97.9	97.9
63	100	Standard	9/20/2023 9:10:1	092023_explosives\	1.00	RDX	1.48e+005	100.	105.	105.
64	100	Standard	9/20/2023 9:10:1	092023_explosives\	1.00	TETRYL	4.42e+004	100.	129.	129.
65	100	Standard	9/20/2023 9:10:1	092023_explosives\	1.00	TETRYL Q2	7.94e+005	100.	116.	116.
66	50	Standard	9/20/2023 9:21:4	092023_explosives\	1.00	1,3,5-TNB	5.80e+003	50.0	53.0	106.
67	50	Standard	9/20/2023 9:21:4	092023_explosives\	1.00	2,4,6-TNT	3.59e+003	50.0	50.0	99.9
68	50	Standard	9/20/2023 9:21:4	092023_explosives\	1.00	2,4,6-TNT Q2	1.64e+004	50.0	46.1	92.2
69	50	Standard	9/20/2023 9:21:4	092023_explosives\	1.00	2,4-DNT	2.05e+004	50.0	43.9	87.8
70	50	Standard	9/20/2023 9:21:4	092023_explosives\	1.00	2,6-DNT	3.71e+003	50.0	49.7	99.4
71	50	Standard	9/20/2023 9:21:4	092023_explosives\	1.00	2-A-4,6-DNT	7.42e+004	50.0	46.6	93.1
72	50	Standard	9/20/2023 9:21:4	092023_explosives\	1.00	4-A-2,6-DNT	2.69e+004	50.0	50.5	101.
73	50	Standard	9/20/2023 9:21:4	092023_explosives\	1.00	4-A-2,6-DNT1	7.82e+003	50.0	41.9	83.7
74	50	Standard	9/20/2023 9:21:4	092023_explosives\	1.00	HMX	2.44e+003	50.0	46.0	92.1
75	50	Standard	9/20/2023 9:21:4	092023_explosives\	1.00	HMX Q2	1.15e+004	50.0	50.9	102.
76	50	Standard	9/20/2023 9:21:4	092023_explosives\	1.00	RDX	6.77e+004	50.0	46.9	93.8
77	50	Standard	9/20/2023 9:21:4	092023_explosives\	1.00	TETRYL	1.90e+004	50.0	37.6	75.1
78	50	Standard	9/20/2023 9:21:4	092023_explosives\	1.00	TETRYL Q2	3.87e+005	50.0	43.7	87.3
79	RB	Unknown	9/20/2023 9:33:1	092023_explosives\	1.00	1,3,5-TNB	0.00e+000	N/A	No Peak	N/A
80	RB	Unknown	9/20/2023 9:33:1	092023_explosives\	1.00	2,4,6-TNT	0.00e+000	N/A	No Peak	N/A
81	RB	Unknown	9/20/2023 9:33:1	092023_explosives\	1.00	2,4,6-TNT Q2	0.00e+000	N/A	No Peak	N/A
82	RB	Unknown	9/20/2023 9:33:1	092023_explosives\	1.00	2,4-DNT	0.00e+000	N/A	No Peak	N/A
83	RB	Unknown	9/20/2023 9:33:1	092023_explosives\	1.00	2,6-DNT	0.00e+000	N/A	No Peak	N/A
84	RB	Unknown	9/20/2023 9:33:1	092023_explosives\	1.00	2-A-4,6-DNT	0.00e+000	N/A	No Peak	N/A
85	RB	Unknown	9/20/2023 9:33:1	092023_explosives\	1.00	4-A-2,6-DNT	0.00e+000	N/A	No Peak	N/A
86	RB	Unknown	9/20/2023 9:33:1	092023_explosives\	1.00	4-A-2,6-DNT1	0.00e+000	N/A	No Peak	N/A
87	RB	Unknown	9/20/2023 9:33:1	092023_explosives\	1.00	HMX	0.00e+000	N/A	No Peak	N/A

	Sample Name	Sample Type	Acquisition Date	File Name	Dilution Factor	Analyte Peak Name	Analyte Peak Area (counts)	Analyte Concentration (ng/mL)	Calculated Concentration (ng/mL)	Accuracy (%)
88	RB	Unknown	9/20/2023 9:33:1	092023_explosives\	1.00	HMX Q2	0.00e+000	N/A	No Peak	N/A
89	RB	Unknown	9/20/2023 9:33:1	092023_explosives\	1.00	RDX	0.00e+000	N/A	No Peak	N/A
90	RB	Unknown	9/20/2023 9:33:1	092023_explosives\	1.00	TETRYL	0.00e+000	N/A	No Peak	N/A
91	RB	Unknown	9/20/2023 9:33:1	092023_explosives\	1.00	TETRYL Q2	0.00e+000	N/A	No Peak	N/A
92	400 ICV	Quality Co	9/20/2023 9:44:3	092023_explosives\	1.00	1,3,5-TNB	4.03e+004	400.	293.	73.2
93	400 ICV	Quality Co	9/20/2023 9:44:3	092023_explosives\	1.00	2,4,6-TNT	2.02e+004	400.	337.	84.3
94	400 ICV	Quality Co	9/20/2023 9:44:3	092023_explosives\	1.00	2,4,6-TNT Q2	1.34e+005	400.	401.	100.
95	400 ICV	Quality Co	9/20/2023 9:44:3	092023_explosives\	1.00	2,4-DNT	1.83e+005	400.	406.	101.
96	400 ICV	Quality Co	9/20/2023 9:44:3	092023_explosives\	1.00	2,6-DNT	2.94e+004	400.	453.	113.
97	400 ICV	Quality Co	9/20/2023 9:44:3	092023_explosives\	1.00	2-A-4,6-DNT	4.36e+005	400.	354.	88.5
98	400 ICV	Quality Co	9/20/2023 9:44:3	092023_explosives\	1.00	4-A-2,6-DNT	1.68e+005	400.	362.	90.5
99	400 ICV	Quality Co	9/20/2023 9:44:3	092023_explosives\	1.00	4-A-2,6-DNT1	5.93e+004	400.	358.	89.5
100	400 ICV	Quality Co	9/20/2023 9:44:3	092023_explosives\	1.00	HMX	2.42e+004	400.	330.	82.5
101	400 ICV	Quality Co	9/20/2023 9:44:3	092023_explosives\	1.00	HMX Q2	8.63e+004	400.	353.	88.3
102	400 ICV	Quality Co	9/20/2023 9:44:3	092023_explosives\	1.00	RDX	5.42e+005	400.	365.	91.2
103	400 ICV	Quality Co	9/20/2023 9:44:3	092023_explosives\	1.00	TETRYL	1.26e+005	400.	472.	118.
104	400 ICV	Quality Co	9/20/2023 9:44:3	092023_explosives\	1.00	TETRYL Q2	2.16e+006	400.	396.	99.1
105	MB	Unknown	9/20/2023 9:56:0	092023_explosives\	1.00	1,3,5-TNB	0.00e+000	N/A	No Peak	N/A
106	MB	Unknown	9/20/2023 9:56:0	092023_explosives\	1.00	2,4,6-TNT	0.00e+000	N/A	No Peak	N/A
107	MB	Unknown	9/20/2023 9:56:0	092023_explosives\	1.00	2,4,6-TNT Q2	0.00e+000	N/A	No Peak	N/A
108	MB	Unknown	9/20/2023 9:56:0	092023_explosives\	1.00	2,4-DNT	0.00e+000	N/A	No Peak	N/A
109	MB	Unknown	9/20/2023 9:56:0	092023_explosives\	1.00	2,6-DNT	0.00e+000	N/A	No Peak	N/A
110	MB	Unknown	9/20/2023 9:56:0	092023_explosives\	1.00	2-A-4,6-DNT	0.00e+000	N/A	No Peak	N/A
111	MB	Unknown	9/20/2023 9:56:0	092023_explosives\	1.00	4-A-2,6-DNT	0.00e+000	N/A	No Peak	N/A
112	MB	Unknown	9/20/2023 9:56:0	092023_explosives\	1.00	4-A-2,6-DNT1	0.00e+000	N/A	No Peak	N/A
113	MB	Unknown	9/20/2023 9:56:0	092023_explosives\	1.00	HMX	0.00e+000	N/A	No Peak	N/A
114	MB	Unknown	9/20/2023 9:56:0	092023_explosives\	1.00	HMX Q2	0.00e+000	N/A	No Peak	N/A
115	MB	Unknown	9/20/2023 9:56:0	092023_explosives\	1.00	RDX	0.00e+000	N/A	No Peak	N/A
116	MB	Unknown	9/20/2023 9:56:0	092023_explosives\	1.00	TETRYL	0.00e+000	N/A	No Peak	N/A

	Sample Name	Sample Type	Acquisition Date	File Name	Dilution Factor	Analyte Peak Name	Analyte Peak Area (counts)	Analyte Concentration (ng/mL)	Calculated Concentration (ng/mL)	Accuracy (%)
117	MB	Unknown	9/20/2023 9:56:0	092023_explosives\	1.00	TETRYL Q2	0.00e+000	N/A	No Peak	N/A
118	LFB	Quality Co	9/20/2023 10:07:	092023_explosives\	1.00	1,3,5-TNB	4.21e+004	500.	306.	61.2
119	LFB	Quality Co	9/20/2023 10:07:	092023_explosives\	1.00	2,4,6-TNT	2.95e+004	500.	459.	91.8
120	LFB	Quality Co	9/20/2023 10:07:	092023_explosives\	1.00	2,4,6-TNT Q2	1.63e+005	500.	474.	94.8
121	LFB	Quality Co	9/20/2023 10:07:	092023_explosives\	1.00	2,4-DNT	2.13e+005	500.	467.	93.4
122	LFB	Quality Co	9/20/2023 10:07:	092023_explosives\	1.00	2,6-DNT	3.35e+004	500.	522.	104.
123	LFB	Quality Co	9/20/2023 10:07:	092023_explosives\	1.00	2-A-4,6-DNT	4.95e+005	500.	405.	80.9
124	LFB	Quality Co	9/20/2023 10:07:	092023_explosives\	1.00	4-A-2,6-DNT	2.01e+005	500.	429.	85.7
125	LFB	Quality Co	9/20/2023 10:07:	092023_explosives\	1.00	4-A-2,6-DNT1	6.88e+004	500.	413.	82.5
126	LFB	Quality Co	9/20/2023 10:07:	092023_explosives\	1.00	HMX	3.85e+004	500.	499.	99.9
127	LFB	Quality Co	9/20/2023 10:07:	092023_explosives\	1.00	HMX Q2	1.53e+005	500.	565.	113.
128	LFB	Quality Co	9/20/2023 10:07:	092023_explosives\	1.00	RDX	6.47e+005	500.	428.	85.7
129	LFB	Quality Co	9/20/2023 10:07:	092023_explosives\	1.00	TETRYL	1.56e+005	500.	627.	125.
130	LFB	Quality Co	9/20/2023 10:07:	092023_explosives\	1.00	TETRYL Q2	2.63e+006	500.	514.	103.
131	MDH0641-03	Unknown	9/20/2023 10:19:	092023_explosives\	1.00	1,3,5-TNB	0.00e+000	N/A	No Peak	N/A
132	MDH0641-03	Unknown	9/20/2023 10:19:	092023_explosives\	1.00	2,4,6-TNT	0.00e+000	N/A	No Peak	N/A
133	MDH0641-03	Unknown	9/20/2023 10:19:	092023_explosives\	1.00	2,4,6-TNT Q2	0.00e+000	N/A	No Peak	N/A
134	MDH0641-03	Unknown	9/20/2023 10:19:	092023_explosives\	1.00	2,4-DNT	0.00e+000	N/A	No Peak	N/A
135	MDH0641-03	Unknown	9/20/2023 10:19:	092023_explosives\	1.00	2,6-DNT	0.00e+000	N/A	No Peak	N/A
136	MDH0641-03	Unknown	9/20/2023 10:19:	092023_explosives\	1.00	2-A-4,6-DNT	0.00e+000	N/A	No Peak	N/A
137	MDH0641-03	Unknown	9/20/2023 10:19:	092023_explosives\	1.00	4-A-2,6-DNT	0.00e+000	N/A	No Peak	N/A
138	MDH0641-03	Unknown	9/20/2023 10:19:	092023_explosives\	1.00	4-A-2,6-DNT1	0.00e+000	N/A	No Peak	N/A
139	MDH0641-03	Unknown	9/20/2023 10:19:	092023_explosives\	1.00	HMX	0.00e+000	N/A	No Peak	N/A
140	MDH0641-03	Unknown	9/20/2023 10:19:	092023_explosives\	1.00	HMX Q2	0.00e+000	N/A	No Peak	N/A
141	MDH0641-03	Unknown	9/20/2023 10:19:	092023_explosives\	1.00	RDX	0.00e+000	N/A	No Peak	N/A
142	MDH0641-03	Unknown	9/20/2023 10:19:	092023_explosives\	1.00	TETRYL	0.00e+000	N/A	No Peak	N/A
143	MDH0641-03	Unknown	9/20/2023 10:19:	092023_explosives\	1.00	TETRYL Q2	0.00e+000	N/A	No Peak	N/A
144	MDH0998-02	Unknown	9/20/2023 10:30:	092023_explosives\	1.00	1,3,5-TNB	0.00e+000	N/A	No Peak	N/A
145	MDH0998-02	Unknown	9/20/2023 10:30:	092023_explosives\	1.00	2,4,6-TNT	0.00e+000	N/A	No Peak	N/A

	Sample Name	Sample Type	Acquisition Date	File Name	Dilution Factor	Analyte Peak Name	Analyte Peak Area (counts)	Analyte Concentration (ng/mL)	Calculated Concentration (ng/mL)	Accuracy (%)
146	MDH0998-02	Unknown	9/20/2023 10:30:	092023_explosives\	1.00	2,4,6-TNT Q2	0.00e+000	N/A	No Peak	N/A
147	MDH0998-02	Unknown	9/20/2023 10:30:	092023_explosives\	1.00	2,4-DNT	0.00e+000	N/A	No Peak	N/A
148	MDH0998-02	Unknown	9/20/2023 10:30:	092023_explosives\	1.00	2,6-DNT	0.00e+000	N/A	No Peak	N/A
149	MDH0998-02	Unknown	9/20/2023 10:30:	092023_explosives\	1.00	2-A-4,6-DNT	0.00e+000	N/A	No Peak	N/A
150	MDH0998-02	Unknown	9/20/2023 10:30:	092023_explosives\	1.00	4-A-2,6-DNT	0.00e+000	N/A	No Peak	N/A
151	MDH0998-02	Unknown	9/20/2023 10:30:	092023_explosives\	1.00	4-A-2,6-DNT1	0.00e+000	N/A	No Peak	N/A
152	MDH0998-02	Unknown	9/20/2023 10:30:	092023_explosives\	1.00	HMX	0.00e+000	N/A	No Peak	N/A
153	MDH0998-02	Unknown	9/20/2023 10:30:	092023_explosives\	1.00	HMX Q2	0.00e+000	N/A	No Peak	N/A
154	MDH0998-02	Unknown	9/20/2023 10:30:	092023_explosives\	1.00	RDX	0.00e+000	N/A	No Peak	N/A
155	MDH0998-02	Unknown	9/20/2023 10:30:	092023_explosives\	1.00	TETRYL	0.00e+000	N/A	No Peak	N/A
156	MDH0998-02	Unknown	9/20/2023 10:30:	092023_explosives\	1.00	TETRYL Q2	0.00e+000	N/A	No Peak	N/A
157	MDI0022-01	Unknown	9/20/2023 10:41:	092023_explosives\	1.00	1,3,5-TNB	0.00e+000	N/A	No Peak	N/A
158	MDI0022-01	Unknown	9/20/2023 10:41:	092023_explosives\	1.00	2,4,6-TNT	0.00e+000	N/A	No Peak	N/A
159	MDI0022-01	Unknown	9/20/2023 10:41:	092023_explosives\	1.00	2,4,6-TNT Q2	0.00e+000	N/A	No Peak	N/A
160	MDI0022-01	Unknown	9/20/2023 10:41:	092023_explosives\	1.00	2,4-DNT	0.00e+000	N/A	No Peak	N/A
161	MDI0022-01	Unknown	9/20/2023 10:41:	092023_explosives\	1.00	2,6-DNT	0.00e+000	N/A	No Peak	N/A
162	MDI0022-01	Unknown	9/20/2023 10:41:	092023_explosives\	1.00	2-A-4,6-DNT	0.00e+000	N/A	No Peak	N/A
163	MDI0022-01	Unknown	9/20/2023 10:41:	092023_explosives\	1.00	4-A-2,6-DNT	0.00e+000	N/A	No Peak	N/A
164	MDI0022-01	Unknown	9/20/2023 10:41:	092023_explosives\	1.00	4-A-2,6-DNT1	0.00e+000	N/A	No Peak	N/A
165	MDI0022-01	Unknown	9/20/2023 10:41:	092023_explosives\	1.00	HMX	1.54e+003	N/A	33.3	N/A
166	MDI0022-01	Unknown	9/20/2023 10:41:	092023_explosives\	1.00	HMX Q2	6.89e+003	N/A	28.3	N/A
167	MDI0022-01	Unknown	9/20/2023 10:41:	092023_explosives\	1.00	RDX	3.18e+005	N/A	222.	N/A
168	MDI0022-01	Unknown	9/20/2023 10:41:	092023_explosives\	1.00	TETRYL	0.00e+000	N/A	No Peak	N/A
169	MDI0022-01	Unknown	9/20/2023 10:41:	092023_explosives\	1.00	TETRYL Q2	5.14e+003	N/A	< 0	N/A
170	MDI0022-02	Unknown	9/20/2023 10:53:	092023_explosives\	1.00	1,3,5-TNB	0.00e+000	N/A	No Peak	N/A
171	MDI0022-02	Unknown	9/20/2023 10:53:	092023_explosives\	1.00	2,4,6-TNT	0.00e+000	N/A	No Peak	N/A
172	MDI0022-02	Unknown	9/20/2023 10:53:	092023_explosives\	1.00	2,4,6-TNT Q2	0.00e+000	N/A	No Peak	N/A
173	MDI0022-02	Unknown	9/20/2023 10:53:	092023_explosives\	1.00	2,4-DNT	0.00e+000	N/A	No Peak	N/A
174	MDI0022-02	Unknown	9/20/2023 10:53:	092023_explosives\	1.00	2,6-DNT	0.00e+000	N/A	No Peak	N/A

	Sample Name	Sample Type	Acquisition Date	File Name	Dilution Factor	Analyte Peak Name	Analyte Peak Area (counts)	Analyte Concentration (ng/mL)	Calculated Concentration (ng/mL)	Accuracy (%)
175	MDI0022-02	Unknown	9/20/2023 10:53:	092023_explosives\	1.00	2-A-4,6-DNT	0.00e+000	N/A	No Peak	N/A
176	MDI0022-02	Unknown	9/20/2023 10:53:	092023_explosives\	1.00	4-A-2,6-DNT	0.00e+000	N/A	No Peak	N/A
177	MDI0022-02	Unknown	9/20/2023 10:53:	092023_explosives\	1.00	4-A-2,6-DNT1	0.00e+000	N/A	No Peak	N/A
178	MDI0022-02	Unknown	9/20/2023 10:53:	092023_explosives\	1.00	HMX	1.87e+002	N/A	14.1	N/A
179	MDI0022-02	Unknown	9/20/2023 10:53:	092023_explosives\	1.00	HMX Q2	2.47e+003	N/A	5.91	N/A
180	MDI0022-02	Unknown	9/20/2023 10:53:	092023_explosives\	1.00	RDX	4.03e+005	N/A	278.	N/A
181	MDI0022-02	Unknown	9/20/2023 10:53:	092023_explosives\	1.00	TETRYL	0.00e+000	N/A	No Peak	N/A
182	MDI0022-02	Unknown	9/20/2023 10:53:	092023_explosives\	1.00	TETRYL Q2	3.98e+003	N/A	< 0	N/A
183	MDI0022-03	Unknown	9/20/2023 11:04:	092023_explosives\	1.00	1,3,5-TNB	0.00e+000	N/A	No Peak	N/A
184	MDI0022-03	Unknown	9/20/2023 11:04:	092023_explosives\	1.00	2,4,6-TNT	0.00e+000	N/A	No Peak	N/A
185	MDI0022-03	Unknown	9/20/2023 11:04:	092023_explosives\	1.00	2,4,6-TNT Q2	0.00e+000	N/A	No Peak	N/A
186	MDI0022-03	Unknown	9/20/2023 11:04:	092023_explosives\	1.00	2,4-DNT	0.00e+000	N/A	No Peak	N/A
187	MDI0022-03	Unknown	9/20/2023 11:04:	092023_explosives\	1.00	2,6-DNT	0.00e+000	N/A	No Peak	N/A
188	MDI0022-03	Unknown	9/20/2023 11:04:	092023_explosives\	1.00	2-A-4,6-DNT	0.00e+000	N/A	No Peak	N/A
189	MDI0022-03	Unknown	9/20/2023 11:04:	092023_explosives\	1.00	4-A-2,6-DNT	0.00e+000	N/A	No Peak	N/A
190	MDI0022-03	Unknown	9/20/2023 11:04:	092023_explosives\	1.00	4-A-2,6-DNT1	0.00e+000	N/A	No Peak	N/A
191	MDI0022-03	Unknown	9/20/2023 11:04:	092023_explosives\	1.00	HMX	0.00e+000	N/A	No Peak	N/A
192	MDI0022-03	Unknown	9/20/2023 11:04:	092023_explosives\	1.00	HMX Q2	4.70e+002	N/A	< 0	N/A
193	MDI0022-03	Unknown	9/20/2023 11:04:	092023_explosives\	1.00	RDX	6.22e+005	N/A	414.	N/A
194	MDI0022-03	Unknown	9/20/2023 11:04:	092023_explosives\	1.00	TETRYL	0.00e+000	N/A	No Peak	N/A
195	MDI0022-03	Unknown	9/20/2023 11:04:	092023_explosives\	1.00	TETRYL Q2	0.00e+000	N/A	No Peak	N/A
196	MDI0022-04	Unknown	9/20/2023 11:16:	092023_explosives\	1.00	1,3,5-TNB	0.00e+000	N/A	No Peak	N/A
197	MDI0022-04	Unknown	9/20/2023 11:16:	092023_explosives\	1.00	2,4,6-TNT	0.00e+000	N/A	No Peak	N/A
198	MDI0022-04	Unknown	9/20/2023 11:16:	092023_explosives\	1.00	2,4,6-TNT Q2	0.00e+000	N/A	No Peak	N/A
199	MDI0022-04	Unknown	9/20/2023 11:16:	092023_explosives\	1.00	2,4-DNT	0.00e+000	N/A	No Peak	N/A
200	MDI0022-04	Unknown	9/20/2023 11:16:	092023_explosives\	1.00	2,6-DNT	0.00e+000	N/A	No Peak	N/A
201	MDI0022-04	Unknown	9/20/2023 11:16:	092023_explosives\	1.00	2-A-4,6-DNT	0.00e+000	N/A	No Peak	N/A
202	MDI0022-04	Unknown	9/20/2023 11:16:	092023_explosives\	1.00	4-A-2,6-DNT	0.00e+000	N/A	No Peak	N/A
203	MDI0022-04	Unknown	9/20/2023 11:16:	092023_explosives\	1.00	4-A-2,6-DNT1	0.00e+000	N/A	No Peak	N/A

	Sample Name	Sample Type	Acquisition Date	File Name	Dilution Factor	Analyte Peak Name	Analyte Peak Area (counts)	Analyte Concentration (ng/mL)	Calculated Concentration (ng/mL)	Accuracy (%)
204	MDI0022-04	Unknown	9/20/2023 11:16:	092023_explosives\	1.00	HMX	4.13e+002	N/A	17.3	N/A
205	MDI0022-04	Unknown	9/20/2023 11:16:	092023_explosives\	1.00	HMX Q2	2.21e+003	N/A	4.60	N/A
206	MDI0022-04	Unknown	9/20/2023 11:16:	092023_explosives\	1.00	RDX	2.76e+005	N/A	194.	N/A
207	MDI0022-04	Unknown	9/20/2023 11:16:	092023_explosives\	1.00	TETRYL	0.00e+000	N/A	No Peak	N/A
208	MDI0022-04	Unknown	9/20/2023 11:16:	092023_explosives\	1.00	TETRYL Q2	0.00e+000	N/A	No Peak	N/A
209	MDI0024-01	Unknown	9/20/2023 11:27:	092023_explosives\	1.00	1,3,5-TNB	0.00e+000	N/A	No Peak	N/A
210	MDI0024-01	Unknown	9/20/2023 11:27:	092023_explosives\	1.00	2,4,6-TNT	0.00e+000	N/A	No Peak	N/A
211	MDI0024-01	Unknown	9/20/2023 11:27:	092023_explosives\	1.00	2,4,6-TNT Q2	0.00e+000	N/A	No Peak	N/A
212	MDI0024-01	Unknown	9/20/2023 11:27:	092023_explosives\	1.00	2,4-DNT	0.00e+000	N/A	No Peak	N/A
213	MDI0024-01	Unknown	9/20/2023 11:27:	092023_explosives\	1.00	2,6-DNT	0.00e+000	N/A	No Peak	N/A
214	MDI0024-01	Unknown	9/20/2023 11:27:	092023_explosives\	1.00	2-A-4,6-DNT	0.00e+000	N/A	No Peak	N/A
215	MDI0024-01	Unknown	9/20/2023 11:27:	092023_explosives\	1.00	4-A-2,6-DNT	0.00e+000	N/A	No Peak	N/A
216	MDI0024-01	Unknown	9/20/2023 11:27:	092023_explosives\	1.00	4-A-2,6-DNT1	0.00e+000	N/A	No Peak	N/A
217	MDI0024-01	Unknown	9/20/2023 11:27:	092023_explosives\	1.00	HMX	1.33e+004	N/A	193.	N/A
218	MDI0024-01	Unknown	9/20/2023 11:27:	092023_explosives\	1.00	HMX Q2	6.37e+004	N/A	272.	N/A
219	MDI0024-01	Unknown	9/20/2023 11:27:	092023_explosives\	1.00	RDX	4.63e+005	N/A	316.	N/A
220	MDI0024-01	Unknown	9/20/2023 11:27:	092023_explosives\	1.00	TETRYL	0.00e+000	N/A	No Peak	N/A
221	MDI0024-01	Unknown	9/20/2023 11:27:	092023_explosives\	1.00	TETRYL Q2	3.92e+003	N/A	< 0	N/A
222	MDI0024-02	Unknown	9/20/2023 11:39:	092023_explosives\	1.00	1,3,5-TNB	0.00e+000	N/A	No Peak	N/A
223	MDI0024-02	Unknown	9/20/2023 11:39:	092023_explosives\	1.00	2,4,6-TNT	0.00e+000	N/A	No Peak	N/A
224	MDI0024-02	Unknown	9/20/2023 11:39:	092023_explosives\	1.00	2,4,6-TNT Q2	0.00e+000	N/A	No Peak	N/A
225	MDI0024-02	Unknown	9/20/2023 11:39:	092023_explosives\	1.00	2,4-DNT	0.00e+000	N/A	No Peak	N/A
226	MDI0024-02	Unknown	9/20/2023 11:39:	092023_explosives\	1.00	2,6-DNT	0.00e+000	N/A	No Peak	N/A
227	MDI0024-02	Unknown	9/20/2023 11:39:	092023_explosives\	1.00	2-A-4,6-DNT	0.00e+000	N/A	No Peak	N/A
228	MDI0024-02	Unknown	9/20/2023 11:39:	092023_explosives\	1.00	4-A-2,6-DNT	0.00e+000	N/A	No Peak	N/A
229	MDI0024-02	Unknown	9/20/2023 11:39:	092023_explosives\	1.00	4-A-2,6-DNT1	0.00e+000	N/A	No Peak	N/A
230	MDI0024-02	Unknown	9/20/2023 11:39:	092023_explosives\	1.00	HMX	0.00e+000	N/A	No Peak	N/A
231	MDI0024-02	Unknown	9/20/2023 11:39:	092023_explosives\	1.00	HMX Q2	0.00e+000	N/A	No Peak	N/A
232	MDI0024-02	Unknown	9/20/2023 11:39:	092023_explosives\	1.00	RDX	2.41e+004	N/A	14.5	N/A

	Sample Name	Sample Type	Acquisition Date	File Name	Dilution Factor	Analyte Peak Name	Analyte Peak Area (counts)	Analyte Concentration (ng/mL)	Calculated Concentration (ng/mL)	Accuracy (%)
233	MDI0024-02	Unknown	9/20/2023 11:39:	092023_explosives\	1.00	TETRYL	0.00e+000	N/A	No Peak	N/A
234	MDI0024-02	Unknown	9/20/2023 11:39:	092023_explosives\	1.00	TETRYL Q2	0.00e+000	N/A	No Peak	N/A
235	MDI0024-03	Unknown	9/20/2023 11:50:	092023_explosives\	1.00	1,3,5-TNB	0.00e+000	N/A	No Peak	N/A
236	MDI0024-03	Unknown	9/20/2023 11:50:	092023_explosives\	1.00	2,4,6-TNT	0.00e+000	N/A	No Peak	N/A
237	MDI0024-03	Unknown	9/20/2023 11:50:	092023_explosives\	1.00	2,4,6-TNT Q2	0.00e+000	N/A	No Peak	N/A
238	MDI0024-03	Unknown	9/20/2023 11:50:	092023_explosives\	1.00	2,4-DNT	0.00e+000	N/A	No Peak	N/A
239	MDI0024-03	Unknown	9/20/2023 11:50:	092023_explosives\	1.00	2,6-DNT	0.00e+000	N/A	No Peak	N/A
240	MDI0024-03	Unknown	9/20/2023 11:50:	092023_explosives\	1.00	2-A-4,6-DNT	0.00e+000	N/A	No Peak	N/A
241	MDI0024-03	Unknown	9/20/2023 11:50:	092023_explosives\	1.00	4-A-2,6-DNT	0.00e+000	N/A	No Peak	N/A
242	MDI0024-03	Unknown	9/20/2023 11:50:	092023_explosives\	1.00	4-A-2,6-DNT1	0.00e+000	N/A	No Peak	N/A
243	MDI0024-03	Unknown	9/20/2023 11:50:	092023_explosives\	1.00	HMX	6.03e+003	N/A	95.8	N/A
244	MDI0024-03	Unknown	9/20/2023 11:50:	092023_explosives\	1.00	HMX Q2	3.30e+004	N/A	149.	N/A
245	MDI0024-03	Unknown	9/20/2023 11:50:	092023_explosives\	1.00	RDX	2.06e+006	N/A	1150.	N/A
246	MDI0024-03	Unknown	9/20/2023 11:50:	092023_explosives\	1.00	TETRYL	0.00e+000	N/A	No Peak	N/A
247	MDI0024-03	Unknown	9/20/2023 11:50:	092023_explosives\	1.00	TETRYL Q2	7.41e+003	N/A	< 0	N/A
248	MDI0024-04	Unknown	9/20/2023 12:02:	092023_explosives\	1.00	1,3,5-TNB	0.00e+000	N/A	No Peak	N/A
249	MDI0024-04	Unknown	9/20/2023 12:02:	092023_explosives\	1.00	2,4,6-TNT	0.00e+000	N/A	No Peak	N/A
250	MDI0024-04	Unknown	9/20/2023 12:02:	092023_explosives\	1.00	2,4,6-TNT Q2	0.00e+000	N/A	No Peak	N/A
251	MDI0024-04	Unknown	9/20/2023 12:02:	092023_explosives\	1.00	2,4-DNT	0.00e+000	N/A	No Peak	N/A
252	MDI0024-04	Unknown	9/20/2023 12:02:	092023_explosives\	1.00	2,6-DNT	0.00e+000	N/A	No Peak	N/A
253	MDI0024-04	Unknown	9/20/2023 12:02:	092023_explosives\	1.00	2-A-4,6-DNT	0.00e+000	N/A	No Peak	N/A
254	MDI0024-04	Unknown	9/20/2023 12:02:	092023_explosives\	1.00	4-A-2,6-DNT	0.00e+000	N/A	No Peak	N/A
255	MDI0024-04	Unknown	9/20/2023 12:02:	092023_explosives\	1.00	4-A-2,6-DNT1	0.00e+000	N/A	No Peak	N/A
256	MDI0024-04	Unknown	9/20/2023 12:02:	092023_explosives\	1.00	HMX	5.65e+003	N/A	90.5	N/A
257	MDI0024-04	Unknown	9/20/2023 12:02:	092023_explosives\	1.00	HMX Q2	3.39e+004	N/A	153.	N/A
258	MDI0024-04	Unknown	9/20/2023 12:02:	092023_explosives\	1.00	RDX	2.21e+006	N/A	1210.	N/A
259	MDI0024-04	Unknown	9/20/2023 12:02:	092023_explosives\	1.00	TETRYL	0.00e+000	N/A	No Peak	N/A
260	MDI0024-04	Unknown	9/20/2023 12:02:	092023_explosives\	1.00	TETRYL Q2	8.43e+003	N/A	< 0	N/A
261	CCV 400 ppb	Quality Co	9/20/2023 12:13:	092023_explosives\	1.00	1,3,5-TNB	1.60e+004	400.	122.	30.5

	Sample Name	Sample Type	Acquisition Date	File Name	Dilution Factor	Analyte Peak Name	Analyte Peak Area (counts)	Analyte Concentration (ng/mL)	Calculated Concentration (ng/mL)	Accuracy (%)
262	CCV 400 ppb	Quality Co	9/20/2023 12:13:	092023_explosives\	1.00	2,4,6-TNT	2.51e+004	400.	403.	101.
263	CCV 400 ppb	Quality Co	9/20/2023 12:13:	092023_explosives\	1.00	2,4,6-TNT Q2	1.36e+005	400.	404.	101.
264	CCV 400 ppb	Quality Co	9/20/2023 12:13:	092023_explosives\	1.00	2,4-DNT	1.62e+005	400.	363.	90.9
265	CCV 400 ppb	Quality Co	9/20/2023 12:13:	092023_explosives\	1.00	2,6-DNT	2.03e+004	400.	307.	76.9
266	CCV 400 ppb	Quality Co	9/20/2023 12:13:	092023_explosives\	1.00	2-A-4,6-DNT	4.22e+005	400.	342.	85.5
267	CCV 400 ppb	Quality Co	9/20/2023 12:13:	092023_explosives\	1.00	4-A-2,6-DNT	1.58e+005	400.	342.	85.4
268	CCV 400 ppb	Quality Co	9/20/2023 12:13:	092023_explosives\	1.00	4-A-2,6-DNT1	6.08e+004	400.	367.	91.7
269	CCV 400 ppb	Quality Co	9/20/2023 12:13:	092023_explosives\	1.00	HMX	1.15e+004	400.	169.	42.3
270	CCV 400 ppb	Quality Co	9/20/2023 12:13:	092023_explosives\	1.00	HMX Q2	6.39e+004	400.	273.	68.1
271	CCV 400 ppb	Quality Co	9/20/2023 12:13:	092023_explosives\	1.00	RDX	4.91e+005	400.	333.	83.3
272	CCV 400 ppb	Quality Co	9/20/2023 12:13:	092023_explosives\	1.00	TETRYL	1.63e+005	400.	664.	166.
273	CCV 400 ppb	Quality Co	9/20/2023 12:13:	092023_explosives\	1.00	TETRYL Q2	1.80e+006	400.	315.	78.7
274	MDI0255-01	Unknown	9/20/2023 12:25:	092023_explosives\	1.00	1,3,5-TNB	0.00e+000	N/A	No Peak	N/A
275	MDI0255-01	Unknown	9/20/2023 12:25:	092023_explosives\	1.00	2,4,6-TNT	0.00e+000	N/A	No Peak	N/A
276	MDI0255-01	Unknown	9/20/2023 12:25:	092023_explosives\	1.00	2,4,6-TNT Q2	0.00e+000	N/A	No Peak	N/A
277	MDI0255-01	Unknown	9/20/2023 12:25:	092023_explosives\	1.00	2,4-DNT	0.00e+000	N/A	No Peak	N/A
278	MDI0255-01	Unknown	9/20/2023 12:25:	092023_explosives\	1.00	2,6-DNT	0.00e+000	N/A	No Peak	N/A
279	MDI0255-01	Unknown	9/20/2023 12:25:	092023_explosives\	1.00	2-A-4,6-DNT	0.00e+000	N/A	No Peak	N/A
280	MDI0255-01	Unknown	9/20/2023 12:25:	092023_explosives\	1.00	4-A-2,6-DNT	0.00e+000	N/A	No Peak	N/A
281	MDI0255-01	Unknown	9/20/2023 12:25:	092023_explosives\	1.00	4-A-2,6-DNT1	0.00e+000	N/A	No Peak	N/A
282	MDI0255-01	Unknown	9/20/2023 12:25:	092023_explosives\	1.00	HMX	5.76e+002	N/A	19.7	N/A
283	MDI0255-01	Unknown	9/20/2023 12:25:	092023_explosives\	1.00	HMX Q2	3.50e+003	N/A	11.2	N/A
284	MDI0255-01	Unknown	9/20/2023 12:25:	092023_explosives\	1.00	RDX	4.67e+006	N/A	2120.	N/A
285	MDI0255-01	Unknown	9/20/2023 12:25:	092023_explosives\	1.00	TETRYL	0.00e+000	N/A	No Peak	N/A
286	MDI0255-01	Unknown	9/20/2023 12:25:	092023_explosives\	1.00	TETRYL Q2	1.56e+004	N/A	< 0	N/A
287	MDI0255-02	Unknown	9/20/2023 12:36:	092023_explosives\	1.00	1,3,5-TNB	0.00e+000	N/A	No Peak	N/A
288	MDI0255-02	Unknown	9/20/2023 12:36:	092023_explosives\	1.00	2,4,6-TNT	0.00e+000	N/A	No Peak	N/A
289	MDI0255-02	Unknown	9/20/2023 12:36:	092023_explosives\	1.00	2,4,6-TNT Q2	0.00e+000	N/A	No Peak	N/A
290	MDI0255-02	Unknown	9/20/2023 12:36:	092023_explosives\	1.00	2,4-DNT	0.00e+000	N/A	No Peak	N/A

	Sample Name	Sample Type	Acquisition Date	File Name	Dilution Factor	Analyte Peak Name	Analyte Peak Area (counts)	Analyte Concentration (ng/mL)	Calculated Concentration (ng/mL)	Accuracy (%)
291	MDI0255-02	Unknown	9/20/2023 12:36:	092023_explosives\	1.00	2,6-DNT	0.00e+000	N/A	No Peak	N/A
292	MDI0255-02	Unknown	9/20/2023 12:36:	092023_explosives\	1.00	2-A-4,6-DNT	0.00e+000	N/A	No Peak	N/A
293	MDI0255-02	Unknown	9/20/2023 12:36:	092023_explosives\	1.00	4-A-2,6-DNT	0.00e+000	N/A	No Peak	N/A
294	MDI0255-02	Unknown	9/20/2023 12:36:	092023_explosives\	1.00	4-A-2,6-DNT1	0.00e+000	N/A	No Peak	N/A
295	MDI0255-02	Unknown	9/20/2023 12:36:	092023_explosives\	1.00	HMX	0.00e+000	N/A	No Peak	N/A
296	MDI0255-02	Unknown	9/20/2023 12:36:	092023_explosives\	1.00	HMX Q2	1.51e+003	N/A	0.952	N/A
297	MDI0255-02	Unknown	9/20/2023 12:36:	092023_explosives\	1.00	RDX	1.53e+006	N/A	900.	N/A
298	MDI0255-02	Unknown	9/20/2023 12:36:	092023_explosives\	1.00	TETRYL	0.00e+000	N/A	No Peak	N/A
299	MDI0255-02	Unknown	9/20/2023 12:36:	092023_explosives\	1.00	TETRYL Q2	0.00e+000	N/A	No Peak	N/A
300	MDI0255-03	Unknown	9/20/2023 12:48:	092023_explosives\	1.00	1,3,5-TNB	0.00e+000	N/A	No Peak	N/A
301	MDI0255-03	Unknown	9/20/2023 12:48:	092023_explosives\	1.00	2,4,6-TNT	0.00e+000	N/A	No Peak	N/A
302	MDI0255-03	Unknown	9/20/2023 12:48:	092023_explosives\	1.00	2,4,6-TNT Q2	0.00e+000	N/A	No Peak	N/A
303	MDI0255-03	Unknown	9/20/2023 12:48:	092023_explosives\	1.00	2,4-DNT	0.00e+000	N/A	No Peak	N/A
304	MDI0255-03	Unknown	9/20/2023 12:48:	092023_explosives\	1.00	2,6-DNT	0.00e+000	N/A	No Peak	N/A
305	MDI0255-03	Unknown	9/20/2023 12:48:	092023_explosives\	1.00	2-A-4,6-DNT	0.00e+000	N/A	No Peak	N/A
306	MDI0255-03	Unknown	9/20/2023 12:48:	092023_explosives\	1.00	4-A-2,6-DNT	0.00e+000	N/A	No Peak	N/A
307	MDI0255-03	Unknown	9/20/2023 12:48:	092023_explosives\	1.00	4-A-2,6-DNT1	0.00e+000	N/A	No Peak	N/A
308	MDI0255-03	Unknown	9/20/2023 12:48:	092023_explosives\	1.00	HMX	7.44e+002	N/A	22.1	N/A
309	MDI0255-03	Unknown	9/20/2023 12:48:	092023_explosives\	1.00	HMX Q2	6.11e+003	N/A	24.4	N/A
310	MDI0255-03	Unknown	9/20/2023 12:48:	092023_explosives\	1.00	RDX	1.31e+005	N/A	92.9	N/A
311	MDI0255-03	Unknown	9/20/2023 12:48:	092023_explosives\	1.00	TETRYL	0.00e+000	N/A	No Peak	N/A
312	MDI0255-03	Unknown	9/20/2023 12:48:	092023_explosives\	1.00	TETRYL Q2	0.00e+000	N/A	No Peak	N/A
313	MDI0255-04	Unknown	9/20/2023 12:59:	092023_explosives\	1.00	1,3,5-TNB	0.00e+000	N/A	No Peak	N/A
314	MDI0255-04	Unknown	9/20/2023 12:59:	092023_explosives\	1.00	2,4,6-TNT	0.00e+000	N/A	No Peak	N/A
315	MDI0255-04	Unknown	9/20/2023 12:59:	092023_explosives\	1.00	2,4,6-TNT Q2	0.00e+000	N/A	No Peak	N/A
316	MDI0255-04	Unknown	9/20/2023 12:59:	092023_explosives\	1.00	2,4-DNT	0.00e+000	N/A	No Peak	N/A
317	MDI0255-04	Unknown	9/20/2023 12:59:	092023_explosives\	1.00	2,6-DNT	0.00e+000	N/A	No Peak	N/A
318	MDI0255-04	Unknown	9/20/2023 12:59:	092023_explosives\	1.00	2-A-4,6-DNT	0.00e+000	N/A	No Peak	N/A
319	MDI0255-04	Unknown	9/20/2023 12:59:	092023_explosives\	1.00	4-A-2,6-DNT	0.00e+000	N/A	No Peak	N/A

	Sample Name	Sample Type	Acquisition Date	File Name	Dilution Factor	Analyte Peak Name	Analyte Peak Area (counts)	Analyte Concentration (ng/mL)	Calculated Concentration (ng/mL)	Accuracy (%)
320	MDI0255-04	Unknown	9/20/2023 12:59:	092023_explosives\	1.00	4-A-2,6-DNT1	0.00e+000	N/A	No Peak	N/A
321	MDI0255-04	Unknown	9/20/2023 12:59:	092023_explosives\	1.00	HMX	8.04e+003	N/A	123.	N/A
322	MDI0255-04	Unknown	9/20/2023 12:59:	092023_explosives\	1.00	HMX Q2	3.79e+004	N/A	170.	N/A
323	MDI0255-04	Unknown	9/20/2023 12:59:	092023_explosives\	1.00	RDX	3.75e+005	N/A	259.	N/A
324	MDI0255-04	Unknown	9/20/2023 12:59:	092023_explosives\	1.00	TETRYL	0.00e+000	N/A	No Peak	N/A
325	MDI0255-04	Unknown	9/20/2023 12:59:	092023_explosives\	1.00	TETRYL Q2	0.00e+000	N/A	No Peak	N/A
326	MDI0255-05	Unknown	9/20/2023 1:10:5	092023_explosives\	1.00	1,3,5-TNB	0.00e+000	N/A	No Peak	N/A
327	MDI0255-05	Unknown	9/20/2023 1:10:5	092023_explosives\	1.00	2,4,6-TNT	0.00e+000	N/A	No Peak	N/A
328	MDI0255-05	Unknown	9/20/2023 1:10:5	092023_explosives\	1.00	2,4,6-TNT Q2	0.00e+000	N/A	No Peak	N/A
329	MDI0255-05	Unknown	9/20/2023 1:10:5	092023_explosives\	1.00	2,4-DNT	0.00e+000	N/A	No Peak	N/A
330	MDI0255-05	Unknown	9/20/2023 1:10:5	092023_explosives\	1.00	2,6-DNT	0.00e+000	N/A	No Peak	N/A
331	MDI0255-05	Unknown	9/20/2023 1:10:5	092023_explosives\	1.00	2-A-4,6-DNT	0.00e+000	N/A	No Peak	N/A
332	MDI0255-05	Unknown	9/20/2023 1:10:5	092023_explosives\	1.00	4-A-2,6-DNT	0.00e+000	N/A	No Peak	N/A
333	MDI0255-05	Unknown	9/20/2023 1:10:5	092023_explosives\	1.00	4-A-2,6-DNT1	0.00e+000	N/A	No Peak	N/A
334	MDI0255-05	Unknown	9/20/2023 1:10:5	092023_explosives\	1.00	HMX	9.94e+003	N/A	149.	N/A
335	MDI0255-05	Unknown	9/20/2023 1:10:5	092023_explosives\	1.00	HMX Q2	5.46e+004	N/A	237.	N/A
336	MDI0255-05	Unknown	9/20/2023 1:10:5	092023_explosives\	1.00	RDX	2.24e+006	N/A	1220.	N/A
337	MDI0255-05	Unknown	9/20/2023 1:10:5	092023_explosives\	1.00	TETRYL	0.00e+000	N/A	No Peak	N/A
338	MDI0255-05	Unknown	9/20/2023 1:10:5	092023_explosives\	1.00	TETRYL Q2	0.00e+000	N/A	No Peak	N/A
339	MDI0255-06	Unknown	9/20/2023 1:22:2	092023_explosives\	1.00	1,3,5-TNB	0.00e+000	N/A	No Peak	N/A
340	MDI0255-06	Unknown	9/20/2023 1:22:2	092023_explosives\	1.00	2,4,6-TNT	0.00e+000	N/A	No Peak	N/A
341	MDI0255-06	Unknown	9/20/2023 1:22:2	092023_explosives\	1.00	2,4,6-TNT Q2	4.81e+003	N/A	4.08	N/A
342	MDI0255-06	Unknown	9/20/2023 1:22:2	092023_explosives\	1.00	2,4-DNT	7.49e+003	N/A	11.6	N/A
343	MDI0255-06	Unknown	9/20/2023 1:22:2	092023_explosives\	1.00	2,6-DNT	0.00e+000	N/A	No Peak	N/A
344	MDI0255-06	Unknown	9/20/2023 1:22:2	092023_explosives\	1.00	2-A-4,6-DNT	0.00e+000	N/A	No Peak	N/A
345	MDI0255-06	Unknown	9/20/2023 1:22:2	092023_explosives\	1.00	4-A-2,6-DNT	0.00e+000	N/A	No Peak	N/A
346	MDI0255-06	Unknown	9/20/2023 1:22:2	092023_explosives\	1.00	4-A-2,6-DNT1	0.00e+000	N/A	No Peak	N/A
347	MDI0255-06	Unknown	9/20/2023 1:22:2	092023_explosives\	1.00	HMX	2.41e+004	N/A	329.	N/A
348	MDI0255-06	Unknown	9/20/2023 1:22:2	092023_explosives\	1.00	HMX Q2	1.33e+005	N/A	504.	N/A

	Sample Name	Sample Type	Acquisition Date	File Name	Dilution Factor	Analyte Peak Name	Analyte Peak Area (counts)	Analyte Concentration (ng/mL)	Calculated Concentration (ng/mL)	Accuracy (%)
349	MDI0255-06	Unknown	9/20/2023 1:22:2	092023_explosives\	1.00	RDX	1.82e+006	N/A	1040.	N/A
350	MDI0255-06	Unknown	9/20/2023 1:22:2	092023_explosives\	1.00	TETRYL	0.00e+000	N/A	No Peak	N/A
351	MDI0255-06	Unknown	9/20/2023 1:22:2	092023_explosives\	1.00	TETRYL Q2	2.03e+004	N/A	< 0	N/A
352	CCV 400 ppb	Quality Co	9/20/2023 1:33:5	092023_explosives\	1.00	1,3,5-TNB	1.29e+004	400.	101.	25.1
353	CCV 400 ppb	Quality Co	9/20/2023 1:33:5	092023_explosives\	1.00	2,4,6-TNT	2.31e+004	400.	376.	94.1
354	CCV 400 ppb	Quality Co	9/20/2023 1:33:5	092023_explosives\	1.00	2,4,6-TNT Q2	1.14e+005	400.	345.	86.4
355	CCV 400 ppb	Quality Co	9/20/2023 1:33:5	092023_explosives\	1.00	2,4-DNT	1.50e+005	400.	338.	84.5
356	CCV 400 ppb	Quality Co	9/20/2023 1:33:5	092023_explosives\	1.00	2,6-DNT	1.85e+004	400.	279.	69.8
357	CCV 400 ppb	Quality Co	9/20/2023 1:33:5	092023_explosives\	1.00	2-A-4,6-DNT	3.75e+005	400.	302.	75.4
358	CCV 400 ppb	Quality Co	9/20/2023 1:33:5	092023_explosives\	1.00	4-A-2,6-DNT	1.46e+005	400.	316.	79.1
359	CCV 400 ppb	Quality Co	9/20/2023 1:33:5	092023_explosives\	1.00	4-A-2,6-DNT1	5.65e+004	400.	341.	85.3
360	CCV 400 ppb	Quality Co	9/20/2023 1:33:5	092023_explosives\	1.00	HMX	1.30e+004	400.	189.	47.1
361	CCV 400 ppb	Quality Co	9/20/2023 1:33:5	092023_explosives\	1.00	HMX Q2	5.92e+004	400.	254.	63.6
362	CCV 400 ppb	Quality Co	9/20/2023 1:33:5	092023_explosives\	1.00	RDX	4.57e+005	400.	312.	78.0
363	CCV 400 ppb	Quality Co	9/20/2023 1:33:5	092023_explosives\	1.00	TETRYL	1.51e+005	400.	598.	149.
364	CCV 400 ppb	Quality Co	9/20/2023 1:33:5	092023_explosives\	1.00	TETRYL Q2	1.67e+006	400.	288.	72.0

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2023\SEP\24SV\
Data File : 01001010.D
Acq On : 25 Sep 2023 12:25 am
Operator : MAH
Sample : MR SCAN
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 13 16:31:52 2023
Quant Method : T:\Data1\MSD4\METHODS\2023\MRT-0924.M
Quant Title : EPA 8270D / EPA 625.1 - MSD4
QLast Update : Fri Oct 13 16:24:38 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.977	152	3991204	20.00	ug/mL	0.00
4) Naphthalene-d8	7.468	136	24598750m	20.00	ug/mL	0.00
10) Acenaphthene-d10	9.590	164	14172061m	20.00	ug/mL	0.00
13) Phenanthrene-d10	11.400	188	15521352	20.00	ug/mL	0.00
15) Chrysene-d12	14.618	240	10923828	20.00	ug/mL	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	0.000	112	0	0.00	ug/mL	
Spiked Amount 50.000			Recovery =	0.00%		
3) Phenol-d5	5.977	99	54444	0.36	ug/mL	0.00
Spiked Amount 50.000			Recovery =	0.72%		
5) Nitrobenzene-d5	6.628	82	14764929m	29.66	ug/mL	0.00
Spiked Amount 25.000			Recovery =	118.64%		
11) 2-Fluorobiphenyl	8.787	172	21685996m	23.71	ug/mL	0.00
Spiked Amount 25.000			Recovery =	94.84%		
16) Terphenyl-d14	13.367	244	14317731	16.48	ug/mL	0.00
Spiked Amount 25.000			Recovery =	65.92%		
Target Compounds						Qvalue
6) Nitrobenzene	6.647	77	10478078m	19.52	ug/mL	
7) 2-Nitrotoluene	7.251	65	5651484m	18.56	ug/mL	
8) 3-Nitrotoluene	7.551	91	9937429m	18.87	ug/mL	
9) 4-Nitrotoluene	7.703	91	4040863	10.90	ug/mL	98
12) 2,4-Dinitrotoluene	9.845	165	3677109	11.16	ug/mL	93
14) 1,3,5-TNB	10.760	75	3108331	22.99	ug/mL	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2023\SEP\24SV\
Data File : 02301014.D
Acq On : 25 Sep 2023 2:13 am
Operator : MAH
Sample : BDI0731-BLK1
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Oct 13 16:33:02 2023
Quant Method : T:\Data1\MSD4\METHODS\2023\MRT-0924.M
Quant Title : EPA 8270D / EPA 625.1 - MSD4
QLast Update : Fri Oct 13 16:24:38 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.982	152	5248699	20.00	ug/mL	0.00
4) Naphthalene-d8	7.471	136	21754295	20.00	ug/mL	0.00
10) Acenaphthene-d10	9.591	164	10702464	20.00	ug/mL	0.00
13) Phenanthrene-d10	11.396	188	16522042	20.00	ug/mL	0.00
15) Chrysene-d12	14.618	240	9775723	20.00	ug/mL	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	0.000	112	0	0.00	ug/mL	
Spiked Amount 50.000			Recovery =	0.00%		
3) Phenol-d5	5.981	99	68073	0.34	ug/mL	0.00
Spiked Amount 50.000			Recovery =	0.68%		
5) Nitrobenzene-d5	6.628	82	11121889	25.26	ug/mL	0.00
Spiked Amount 25.000			Recovery =	101.04%		
11) 2-Fluorobiphenyl	8.788	172	14095968	20.41	ug/mL	0.00
Spiked Amount 25.000			Recovery =	81.64%		
16) Terphenyl-d14	13.367	244	13817494	17.78	ug/mL	0.00
Spiked Amount 25.000			Recovery =	71.12%		
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2023\SEP\24SV\
Data File : 02901020.D
Acq On : 25 Sep 2023 4:56 am
Operator : MAH
Sample : MDI0025-01 MR
Misc :
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Oct 13 16:25:15 2023
Quant Method : T:\Data1\MSD4\METHODS\2023\MRT-0924.M
Quant Title : EPA 8270D / EPA 625.1 - MSD4
QLast Update : Fri Oct 13 16:24:38 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.981	152	5466488	20.00	ug/mL	0.00
4) Naphthalene-d8	7.471	136	22417189	20.00	ug/mL	0.00
10) Acenaphthene-d10	9.592	164	12556037	20.00	ug/mL	0.00
13) Phenanthrene-d10	11.398	188	20511080	20.00	ug/mL	0.00
15) Chrysene-d12	14.621	240	12589961	20.00	ug/mL	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	0.000	112	0	0.00	ug/mL	
Spiked Amount 50.000			Recovery =	0.00%		
3) Phenol-d5	5.981	99	79869	0.38	ug/mL	0.00
Spiked Amount 50.000			Recovery =	0.76%		
5) Nitrobenzene-d5	6.630	82	11725948	25.85	ug/mL	0.00
Spiked Amount 25.000			Recovery =	103.40%		
11) 2-Fluorobiphenyl	8.788	172	16719096	20.63	ug/mL	0.00
Spiked Amount 25.000			Recovery =	82.52%		
16) Terphenyl-d14	13.370	244	17536971	17.52	ug/mL	0.00
Spiked Amount 25.000			Recovery =	70.08%		
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2023\SEP\24SV\
Data File : 03001021.D
Acq On : 25 Sep 2023 5:23 am
Operator : MAH
Sample : MDI0014-08 MR
Misc :
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Oct 13 16:26:35 2023
Quant Method : T:\Data1\MSD4\METHODS\2023\MRT-0924.M
Quant Title : EPA 8270D / EPA 625.1 - MSD4
QLast Update : Fri Oct 13 16:24:38 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.980	152	5147030	20.00	ug/mL	0.00
4) Naphthalene-d8	7.471	136	20519061	20.00	ug/mL	0.00
10) Acenaphthene-d10	9.591	164	11697008	20.00	ug/mL	0.00
13) Phenanthrene-d10	11.397	188	18298310	20.00	ug/mL	0.00
15) Chrysene-d12	14.619	240	10638648	20.00	ug/mL	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	0.000	112	0	0.00	ug/mL	
Spiked Amount 50.000			Recovery =	0.00%		
3) Phenol-d5	5.980	99	76251	0.39	ug/mL	0.00
Spiked Amount 50.000			Recovery =	0.78%		
5) Nitrobenzene-d5	6.629	82	10824499	26.07	ug/mL	0.00
Spiked Amount 25.000			Recovery =	104.28%		
11) 2-Fluorobiphenyl	8.788	172	15441004	20.46	ug/mL	0.00
Spiked Amount 25.000			Recovery =	81.84%		
16) Terphenyl-d14	13.368	244	15242918	18.02	ug/mL	0.00
Spiked Amount 25.000			Recovery =	72.08%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

25-08

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2023\SEP\24SV\
Data File : 03101022.D
Acq On : 25 Sep 2023 5:51 am
Operator : MAH
Sample : MDI0255-05 MR
Misc :
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Oct 13 16:27:38 2023
Quant Method : T:\Data1\MSD4\METHODS\2023\MRT-0924.M
Quant Title : EPA 8270D / EPA 625.1 - MSD4
QLast Update : Fri Oct 13 16:24:38 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.980	152	4820011	20.00	ug/mL	0.00
4) Naphthalene-d8	7.472	136	19952143	20.00	ug/mL	0.00
10) Acenaphthene-d10	9.592	164	11234812	20.00	ug/mL	0.00
13) Phenanthrene-d10	11.398	188	17465238	20.00	ug/mL	0.00
15) Chrysene-d12	14.618	240	8834902	20.00	ug/mL	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	0.000	112	0	0.00	ug/mL	
Spiked Amount 50.000			Recovery =	0.00%		
3) Phenol-d5	5.980	99	69757	0.38	ug/mL	0.00
Spiked Amount 50.000			Recovery =	0.76%		
5) Nitrobenzene-d5	6.628	82	9519917	23.58	ug/mL	0.00
Spiked Amount 25.000			Recovery =	94.32%		
11) 2-Fluorobiphenyl	8.789	172	14270866	19.68	ug/mL	0.00
Spiked Amount 25.000			Recovery =	78.72%		
16) Terphenyl-d14	13.369	244	13929390	19.83	ug/mL	0.00
Spiked Amount 25.000			Recovery =	79.32%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2023\SEP\24SV\
Data File : 03201023.D
Acq On : 25 Sep 2023 6:18 am
Operator : MAH
Sample : MDI0255-06 MR
Misc :
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Oct 13 16:29:10 2023
Quant Method : T:\Data1\MSD4\METHODS\2023\MRT-0924.M
Quant Title : EPA 8270D / EPA 625.1 - MSD4
QLast Update : Fri Oct 13 16:24:38 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.981	152	5346882	20.00	ug/mL	0.00
4) Naphthalene-d8	7.471	136	22121759	20.00	ug/mL	0.00
10) Acenaphthene-d10	9.591	164	12802101	20.00	ug/mL	0.00
13) Phenanthrene-d10	11.398	188	20017426	20.00	ug/mL	0.00
15) Chrysene-d12	14.620	240	11795458	20.00	ug/mL	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	0.000	112	0	0.00	ug/mL	
Spiked Amount 50.000			Recovery =	0.00%		
3) Phenol-d5	5.980	99	76437	0.37	ug/mL	0.00
Spiked Amount 50.000			Recovery =	0.74%		
5) Nitrobenzene-d5	6.629	82	10360377	23.14	ug/mL	0.00
Spiked Amount 25.000			Recovery =	92.56%		
11) 2-Fluorobiphenyl	8.788	172	15447769	18.70	ug/mL	0.00
Spiked Amount 25.000			Recovery =	74.80%		
16) Terphenyl-d14	13.368	244	17032782	18.16	ug/mL	0.00
Spiked Amount 25.000			Recovery =	72.64%		
Target Compounds						Qvalue
12) 2,4-Dinitrotoluene	9.840	165	34945	0.12	ug/mL#	67

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

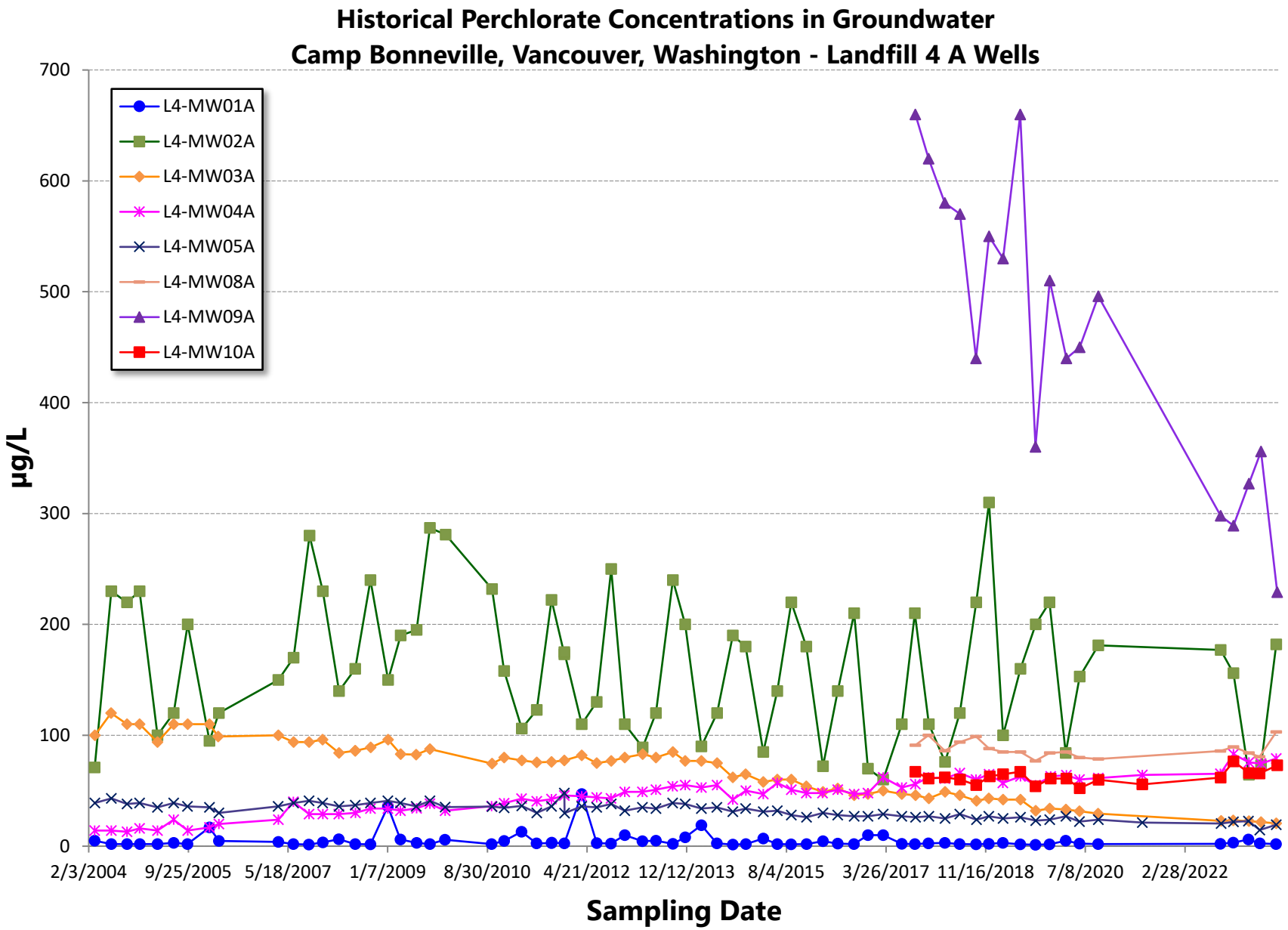
Data Path : T:\Data1\MSD4\2023\SEP\24SV\
Data File : 03301024.D
Acq On : 25 Sep 2023 6:45 am
Operator : MAH
Sample : MDI0036-05 MR
Misc :
ALS Vial : 33 Sample Multiplier: 1

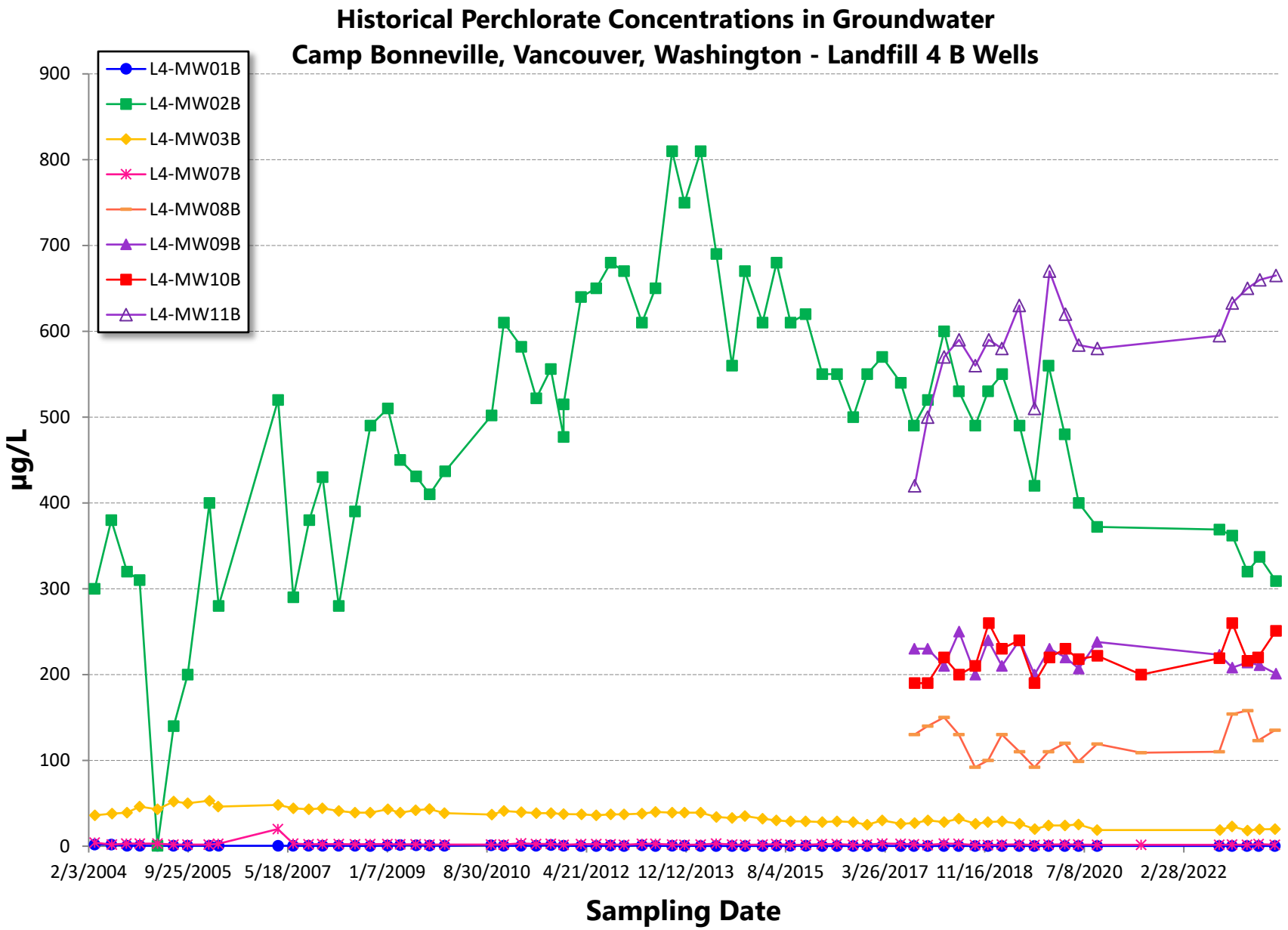
Quant Time: Oct 13 16:35:26 2023
Quant Method : T:\Data1\MSD4\METHODS\2023\MRT-0924.M
Quant Title : EPA 8270D / EPA 625.1 - MSD4
QLast Update : Fri Oct 13 16:24:38 2023
Response via : Initial Calibration

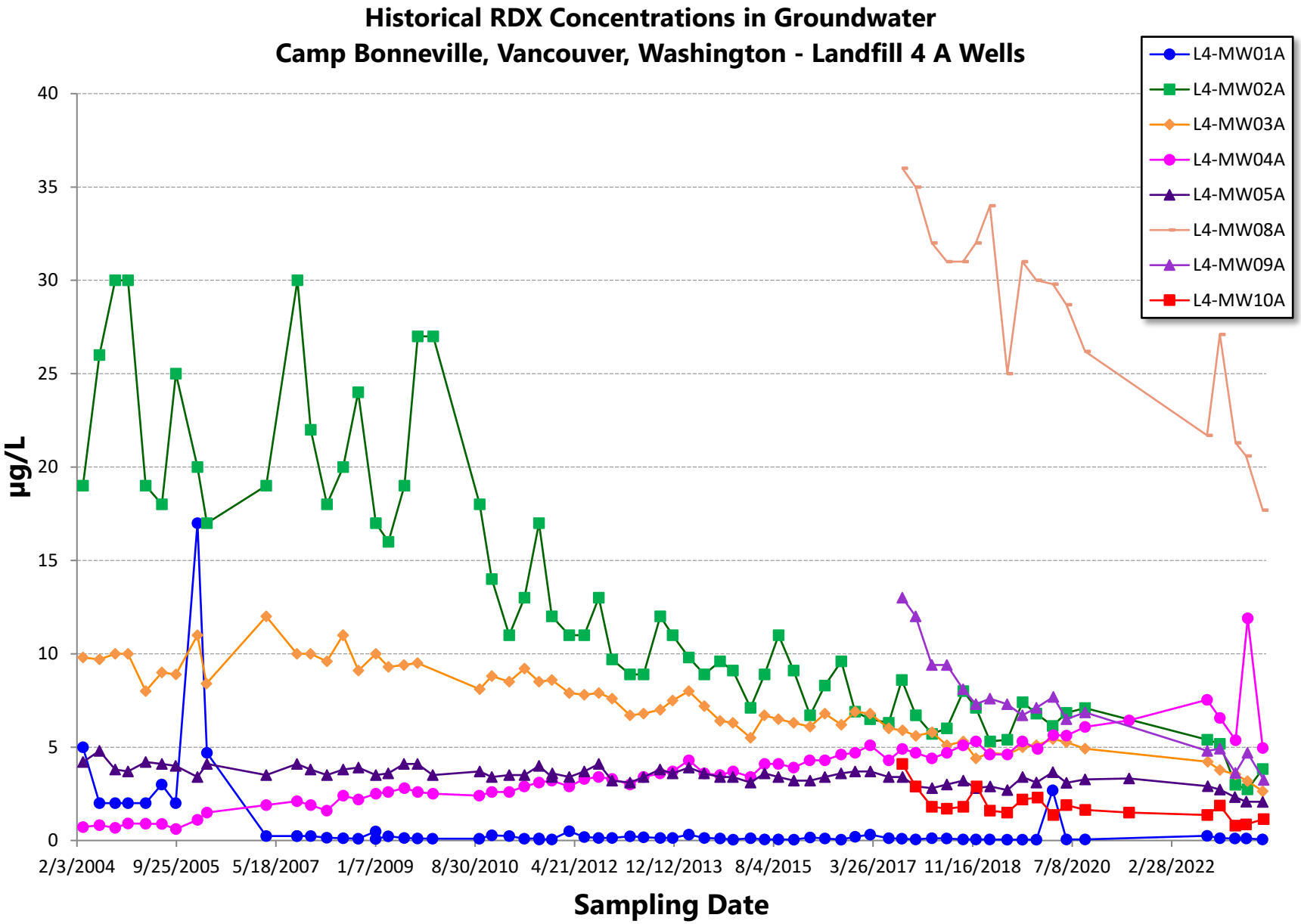
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.981	152	5872894	20.00	ug/mL	0.00
4) Naphthalene-d8	7.471	136	23498385	20.00	ug/mL	0.00
10) Acenaphthene-d10	9.592	164	13367898	20.00	ug/mL	0.00
13) Phenanthrene-d10	11.397	188	21259784	20.00	ug/mL	0.00
15) Chrysene-d12	14.620	240	12612091	20.00	ug/mL	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	0.000	112	0	0.00	ug/mL	
Spiked Amount 50.000			Recovery =	0.00%		
3) Phenol-d5	5.981	99	85099	0.38	ug/mL	0.00
Spiked Amount 50.000			Recovery =	0.76%		
5) Nitrobenzene-d5	6.630	82	11731021	24.67	ug/mL	0.00
Spiked Amount 25.000			Recovery =	98.68%		
11) 2-Fluorobiphenyl	8.788	172	17325333	20.08	ug/mL	0.00
Spiked Amount 25.000			Recovery =	80.32%		
16) Terphenyl-d14	13.368	244	17152574	17.10	ug/mL	0.00
Spiked Amount 25.000			Recovery =	68.40%		
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

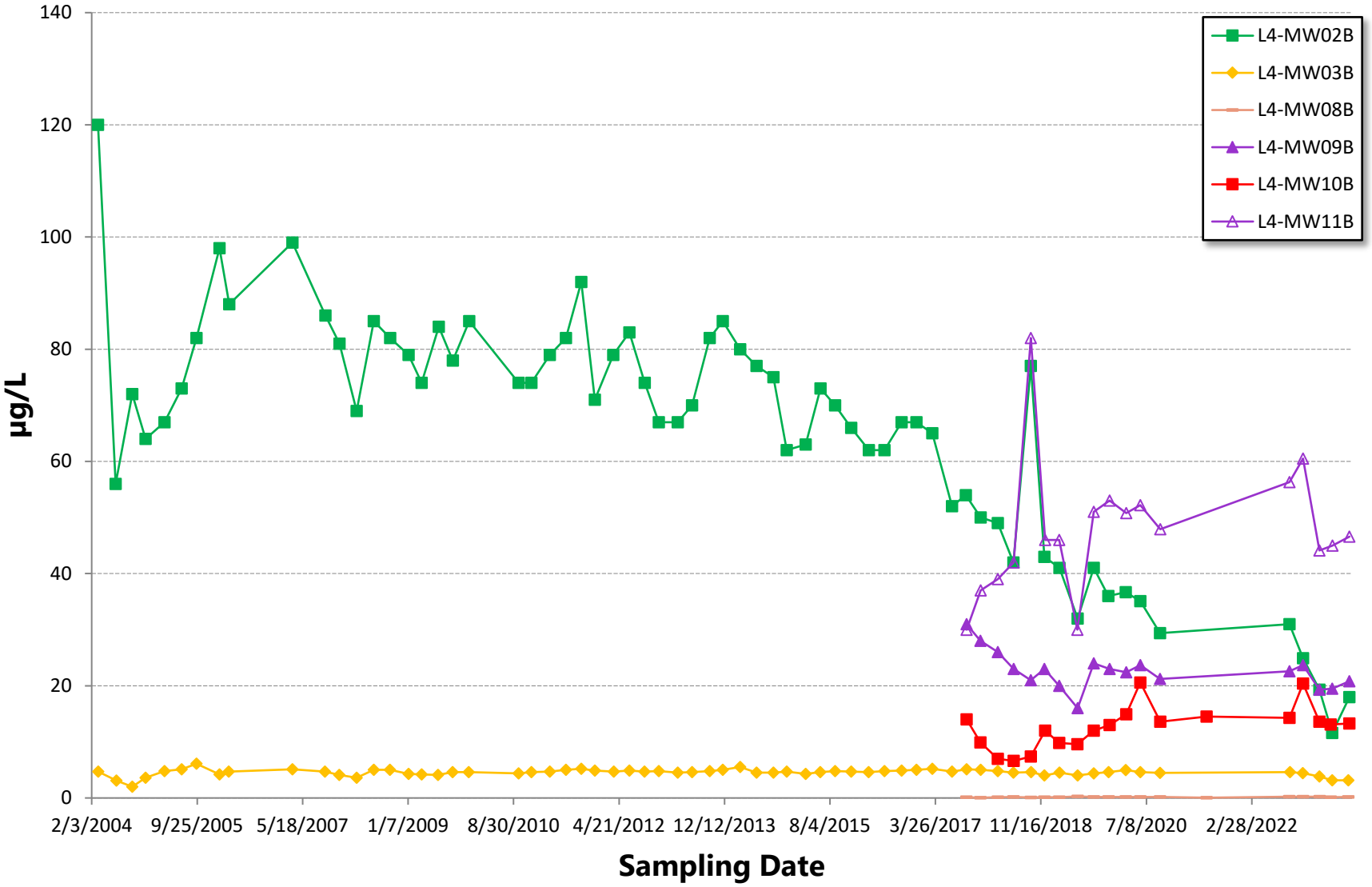
Appendix D
Trend Graphs


Historical Perchlorate Concentrations in Groundwater
Camp Bonneville, Vancouver, Washington - Landfill 4 A Wells
L4-MW01A
L4-MW02A
L4-MW03A
L4-MW04A
L4-MW05A
L4-MW08A
L4-MW09A
L4-MW10A
µg/L
700
600
500
400
300
200
100
0
2/3/2004
9/25/2005
5/18/2007
1/7/2009
8/30/2010
4/21/2012
12/12/2013
8/4/2015
3/26/2017
11/16/2018
7/8/2020
2/28/2022
Sampling Date


Historical Perchlorate Concentrations in Groundwater
Camp Bonneville, Vancouver, Washington - Landfill 4 B Wells
L4-MW01B
L4-MW02B
L4-MW03B
L4-MW07B
L4-MW08B
L4-MW09B
L4-MW10B
L4-MW11B
µg/L
900
800
700
600
500
400
300
200
100
0
2/3/2004
9/25/2005
5/18/2007
1/7/2009
8/30/2010
4/21/2012
12/12/2013
8/4/2015
3/26/2017
11/16/2018
7/8/2020
2/28/2022
Sampling Date


Historical RDX Concentrations in Groundwater
Camp Bonneville, Vancouver, Washington - Landfill 4 A Wells
L4-MW01A
L4-MW02A
L4-MW03A
L4-MW04A
L4-MW05A
L4-MW08A
L4-MW09A
L4-MW10A
µg/L
40
35
30
25
20
15
10
5
0
2/3/2004
9/25/2005
5/18/2007
1/7/2009
8/30/2010
4/21/2012
12/12/2013
8/4/2015
3/26/2017
11/16/2018
7/8/2020
2/28/2022
Sampling Date

Historical RDX Concentrations in Groundwater
Camp Bonneville, Vancouver, Washington - Landfill 4 B Wells



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January 2024
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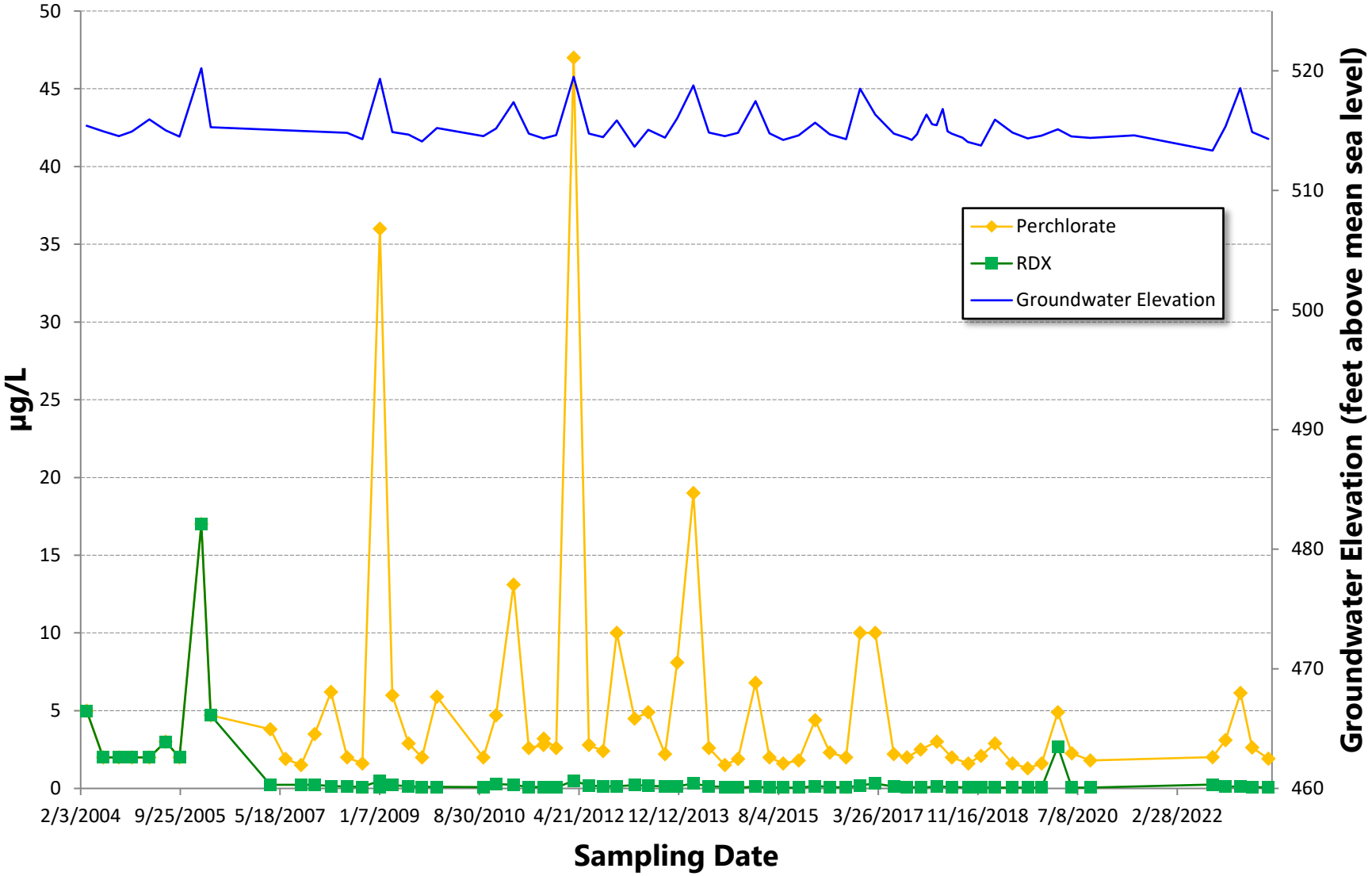
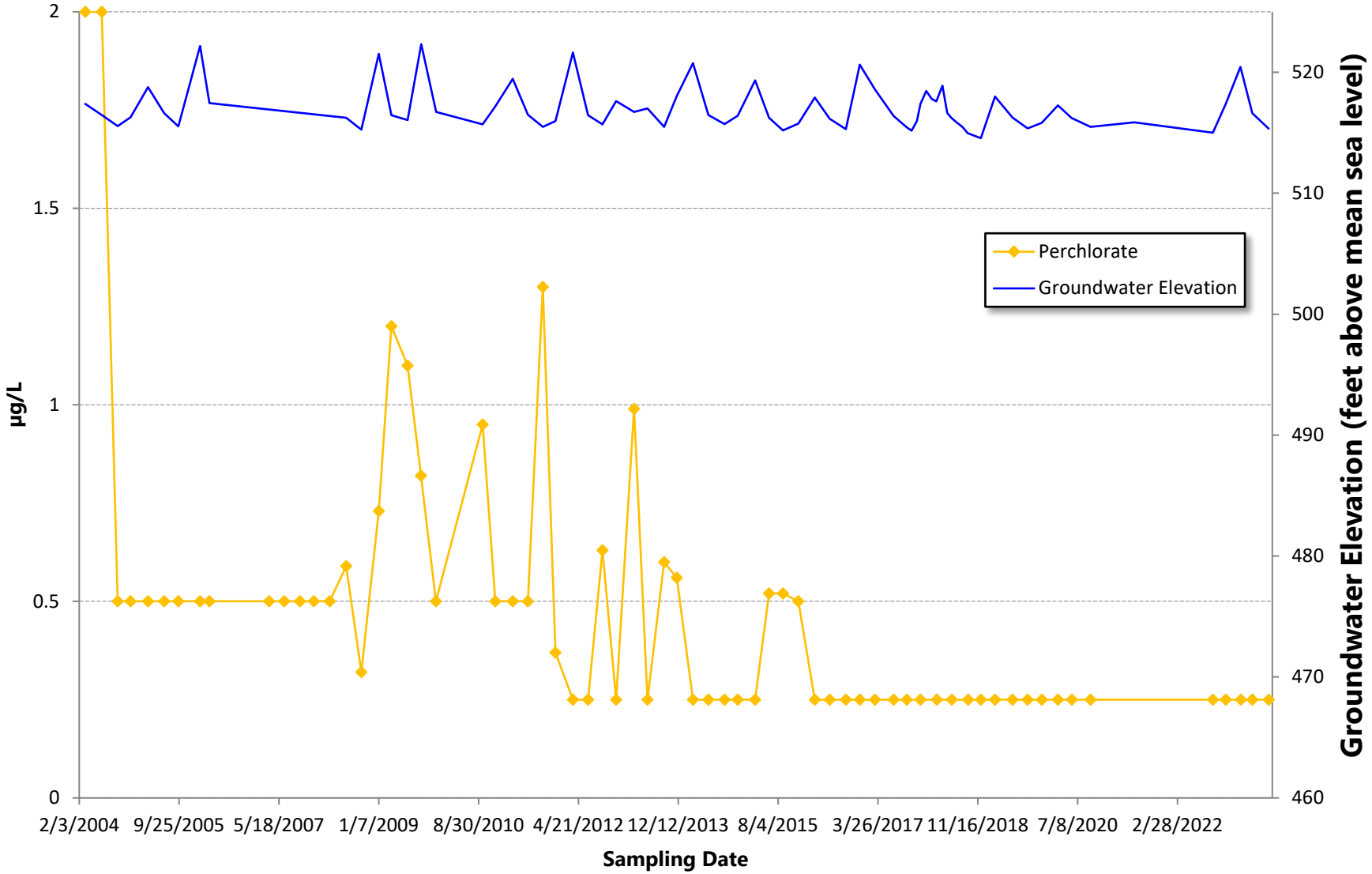
Historical Groundwater Concentrations
Camp Bonneville, Vancouver, Washington - Well L4-MW01A



PBS

January 2024
PBS Project 76151.012

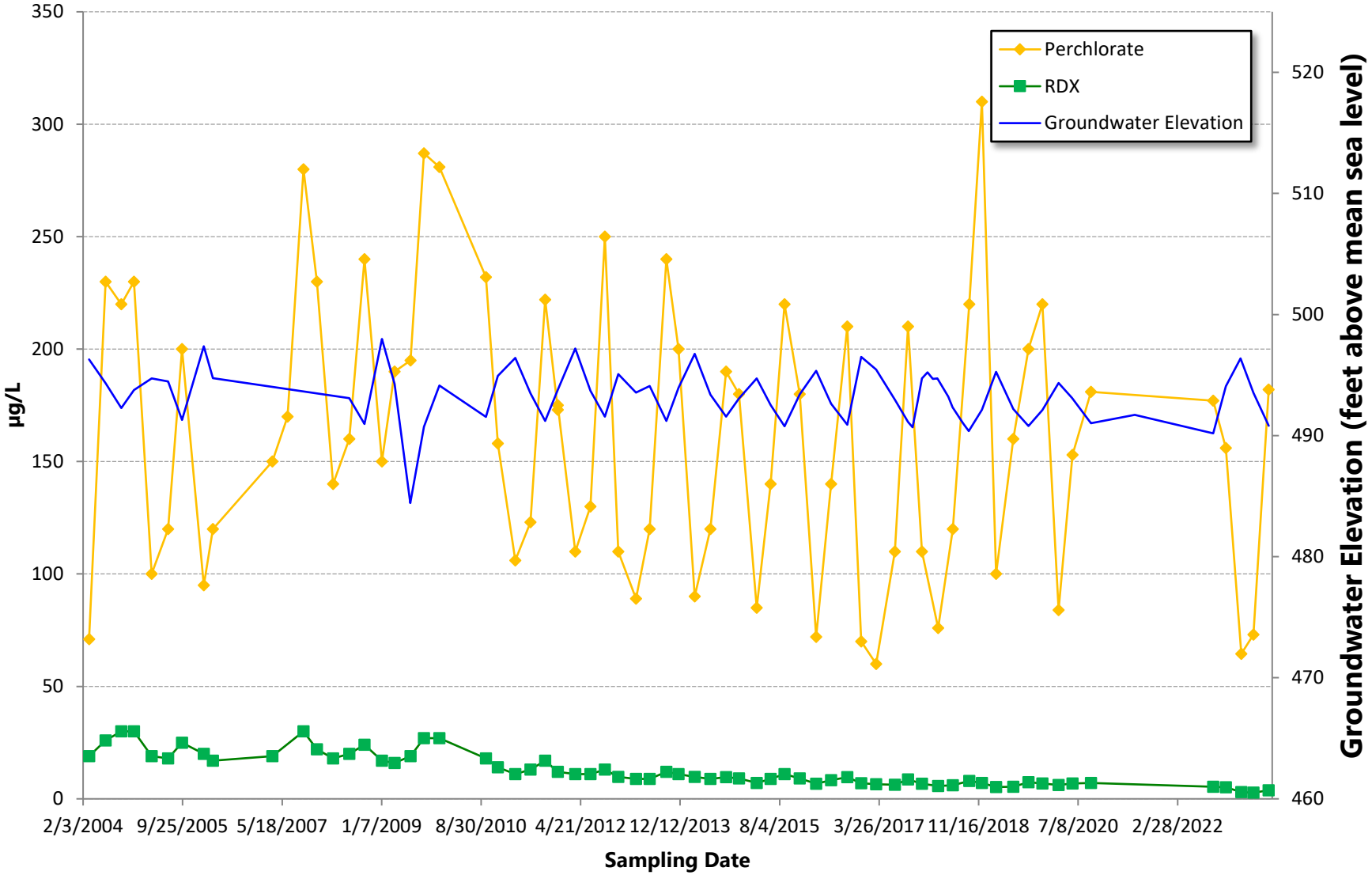
Historical Groundwater Concentrations
Camp Bonneville, Vancouver, Washington - Well L4-MW01B



PBS

January 2024
PBS Project 76151.012

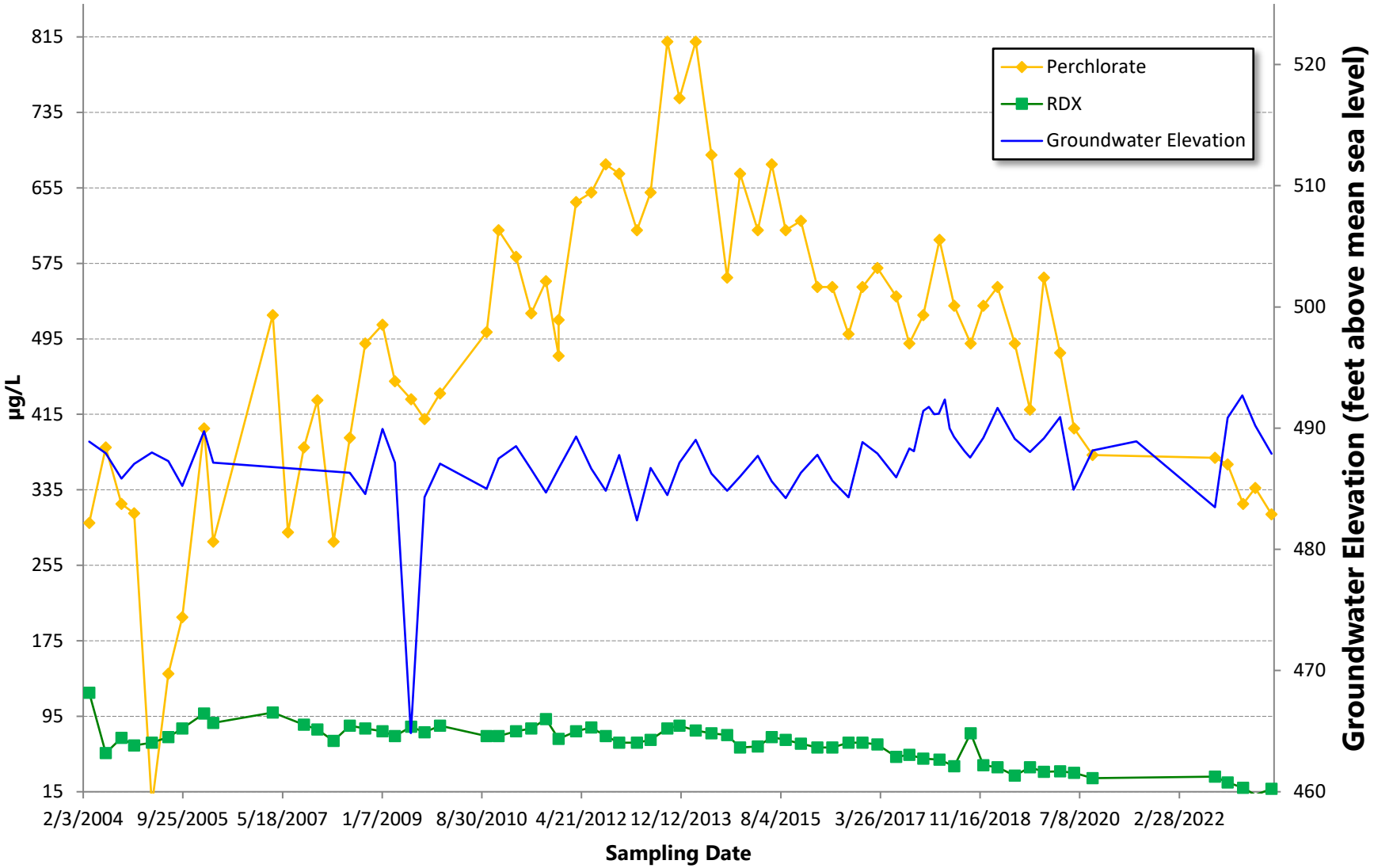
Historical Groundwater Concentrations
Camp Bonneville, Vancouver, Washington - Well L4-MW02A



PBS

January 2024
PBS Project 76151.012

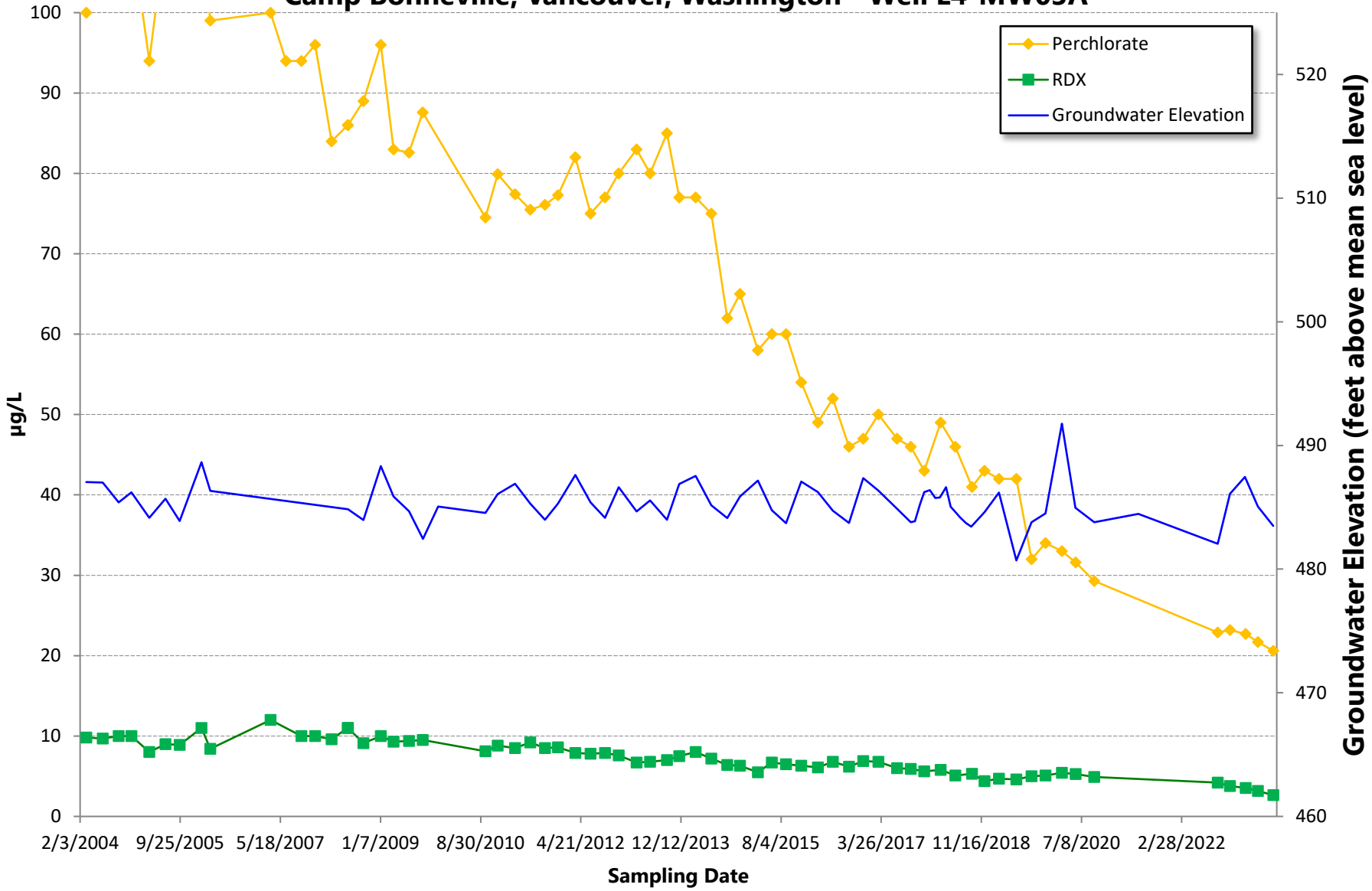
Historical Groundwater Concentrations
Camp Bonneville, Vancouver, Washington - Well L4-MW02B



PBS

January 2024
PBS Project 76151.012

Historical Groundwater Concentrations
Camp Bonneville, Vancouver, Washington - Well L4-MW03A



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January 2024
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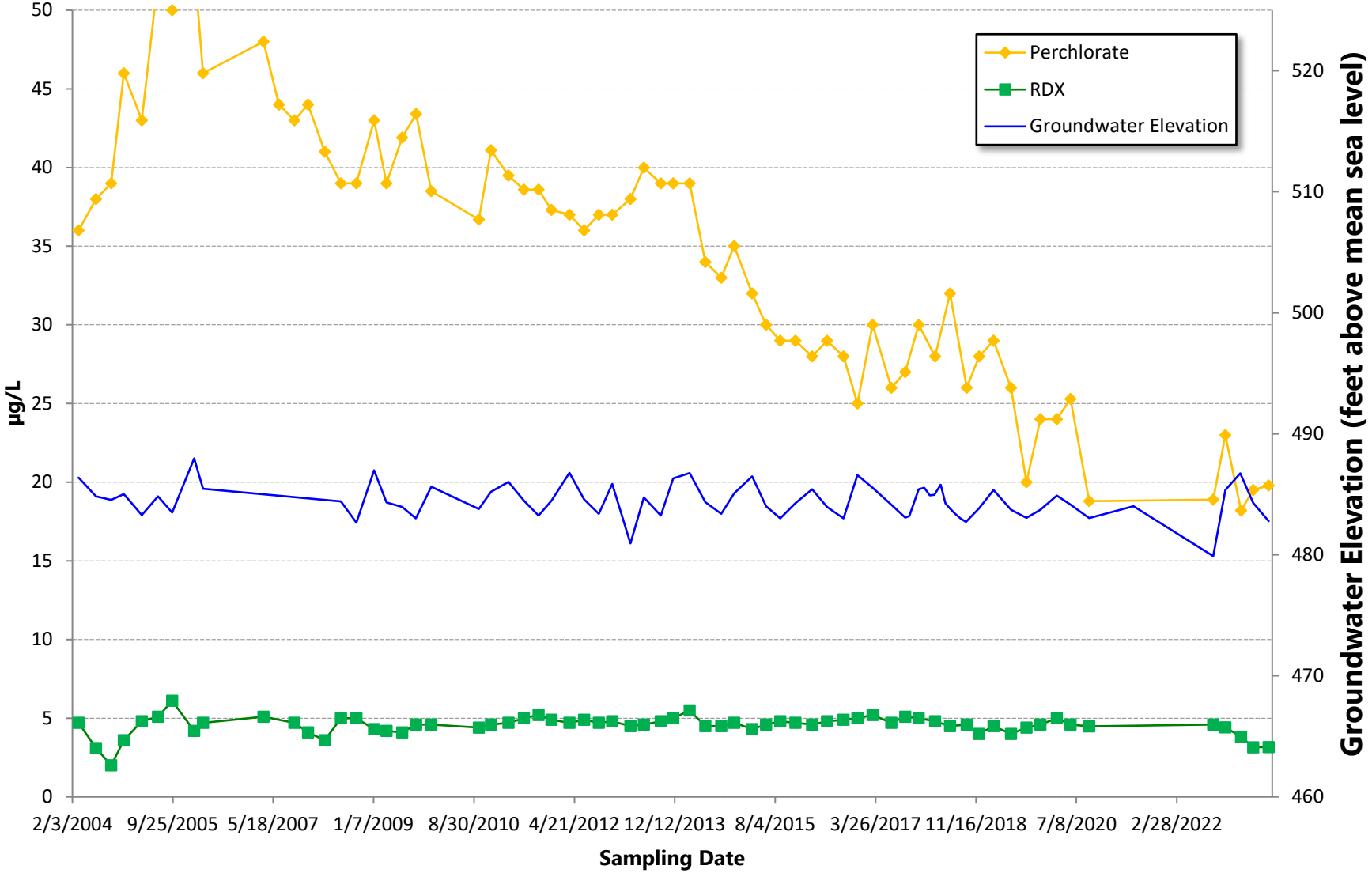
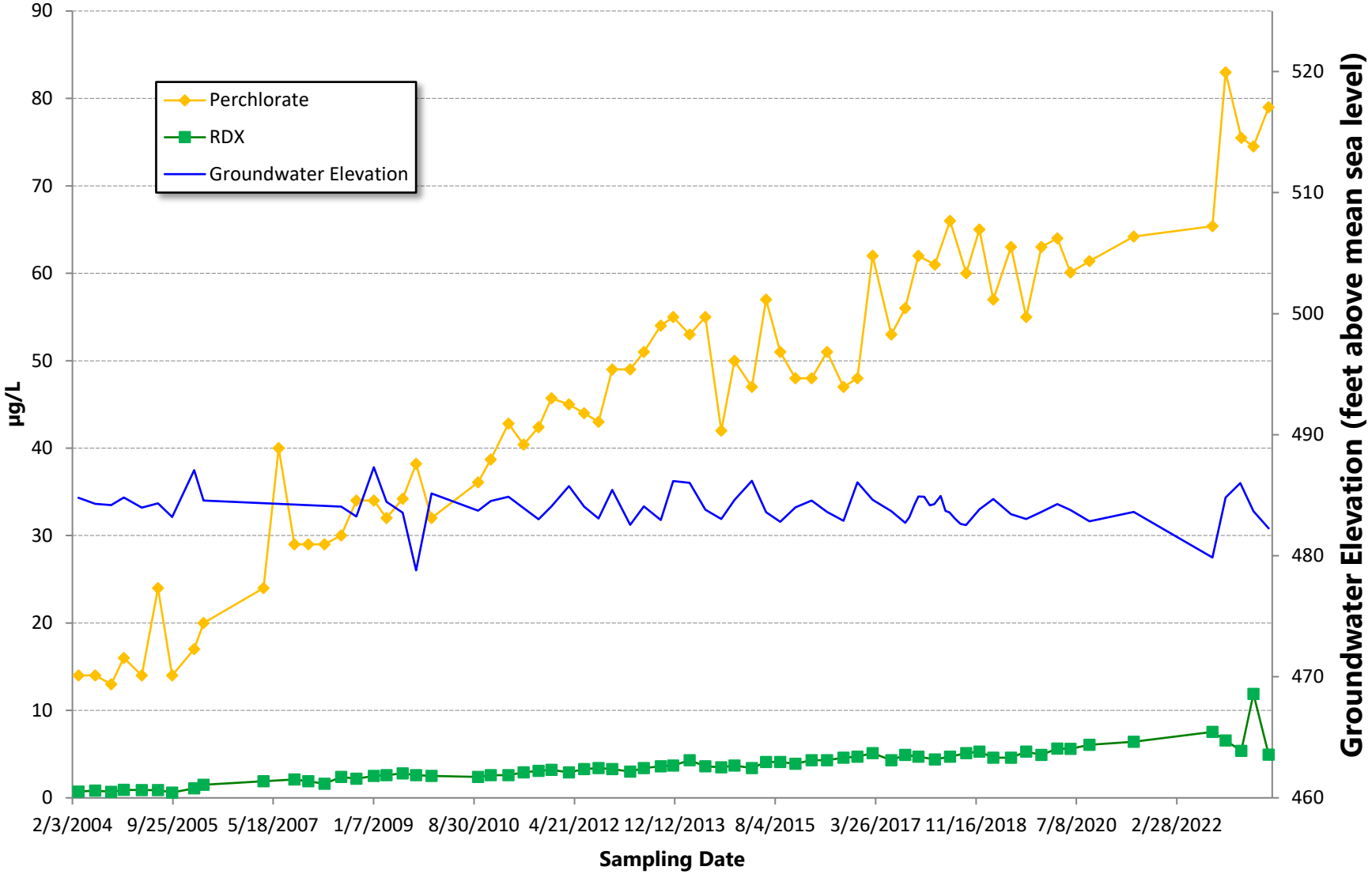
Historical Groundwater Concentrations
Camp Bonneville, Vancouver, Washington - Well L4-MW03B



PBS

January 2024
PBS Project 76151.012

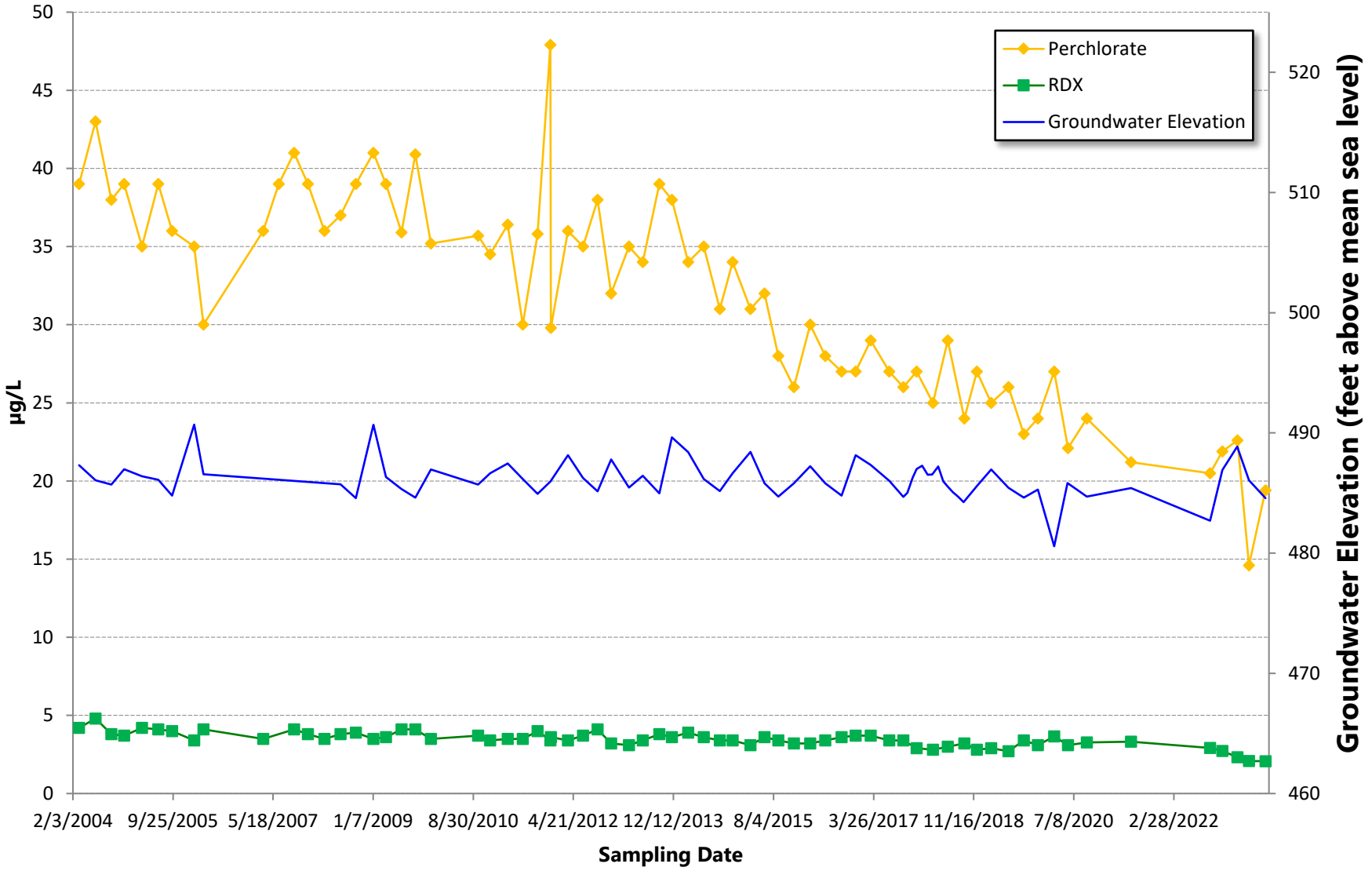
Historical Groundwater Concentrations
Camp Bonneville, Vancouver, Washington - Well L4-MW04A



PBS

January 2024
PBS Project 76151.012

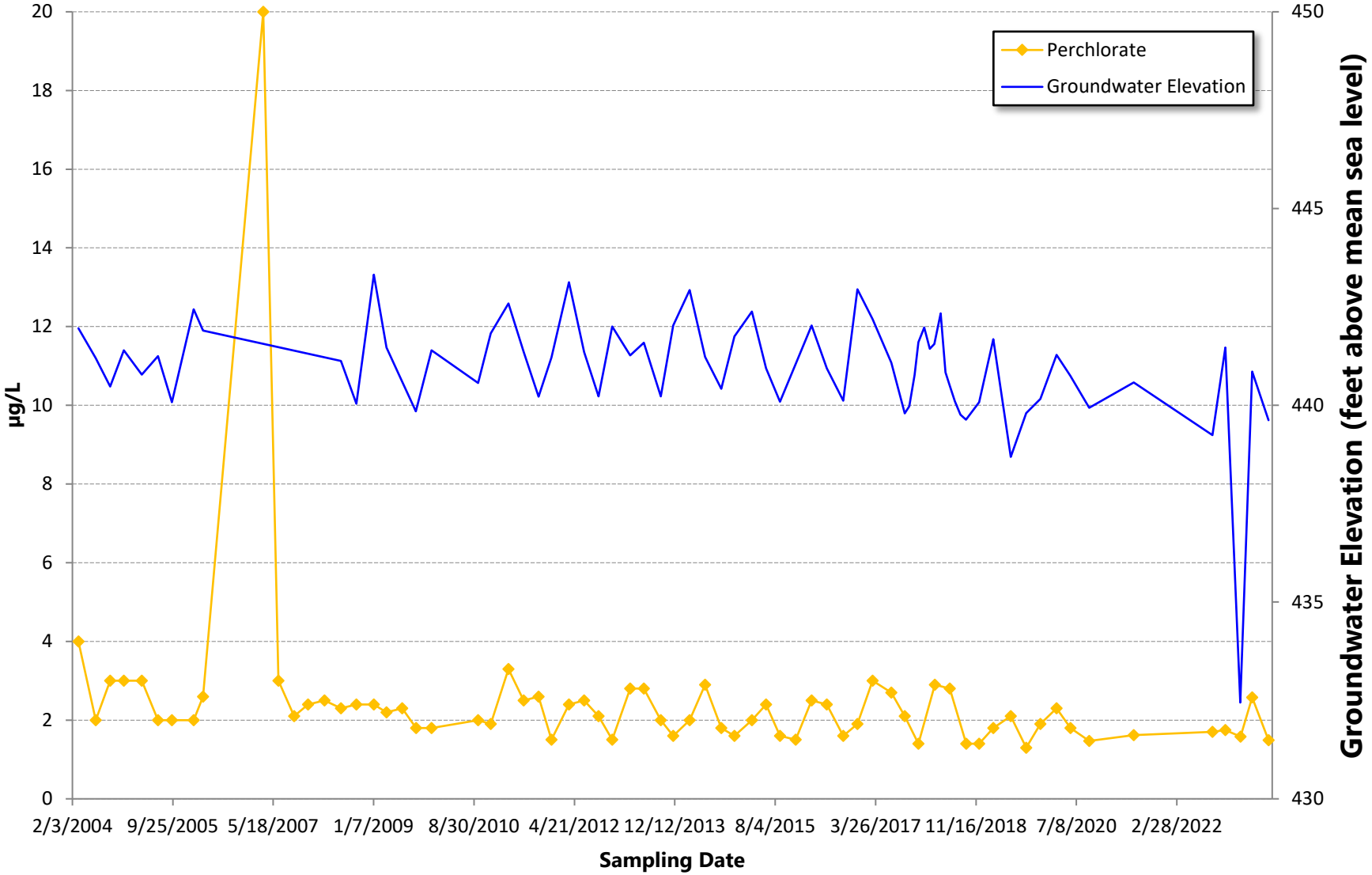
Historical Groundwater Concentrations
Camp Bonneville, Vancouver, Washington - Well L4-MW05A



PBS

January 2024
PBS Project 76151.012

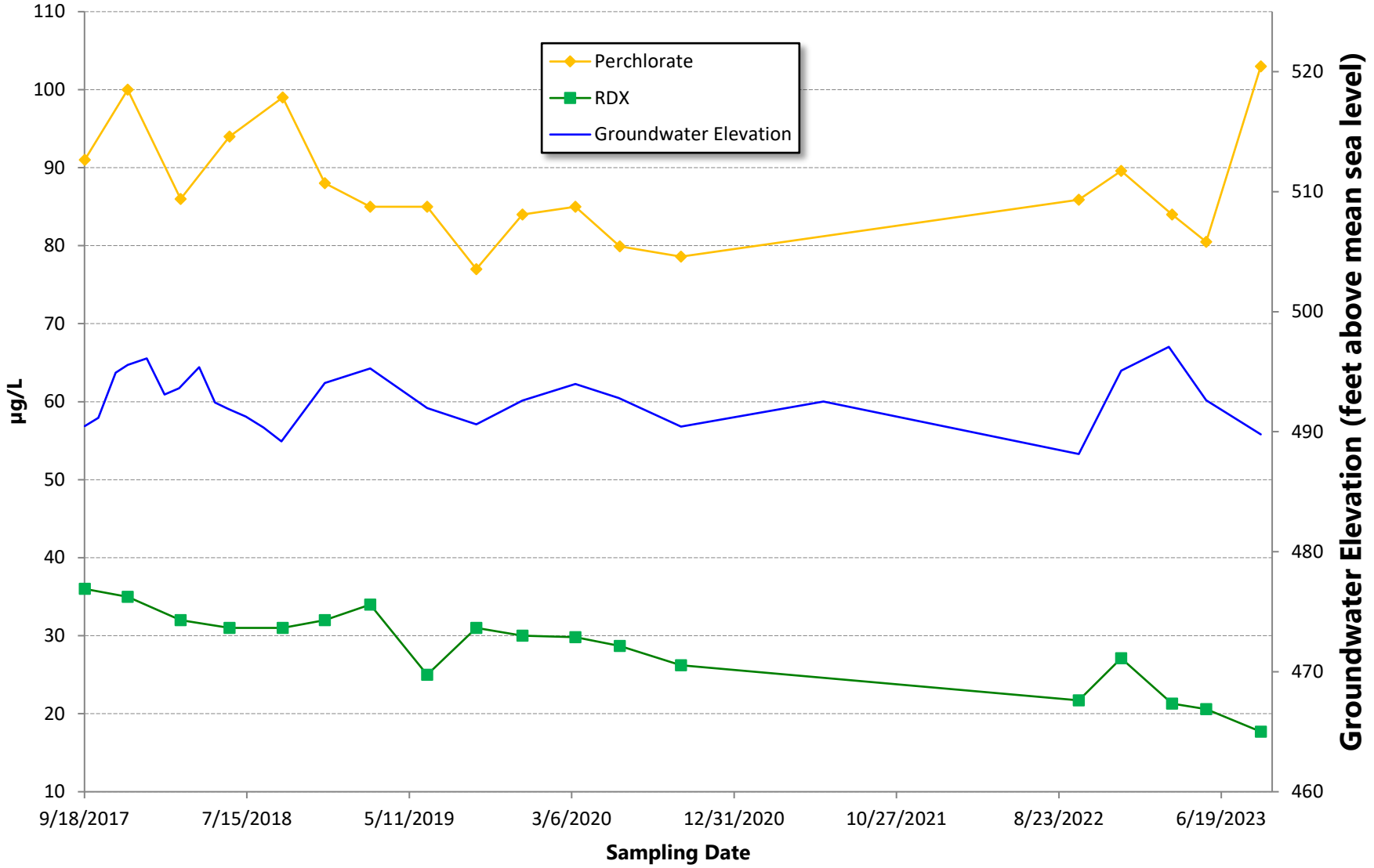
Historical Groundwater Concentrations
Camp Bonneville, Vancouver, Washington - Well L4-MW07B



PBS

January 2024
PBS Project 76151.012

Historical Groundwater Concentrations
Camp Bonneville, Vancouver, Washington - Well L4-MW08A



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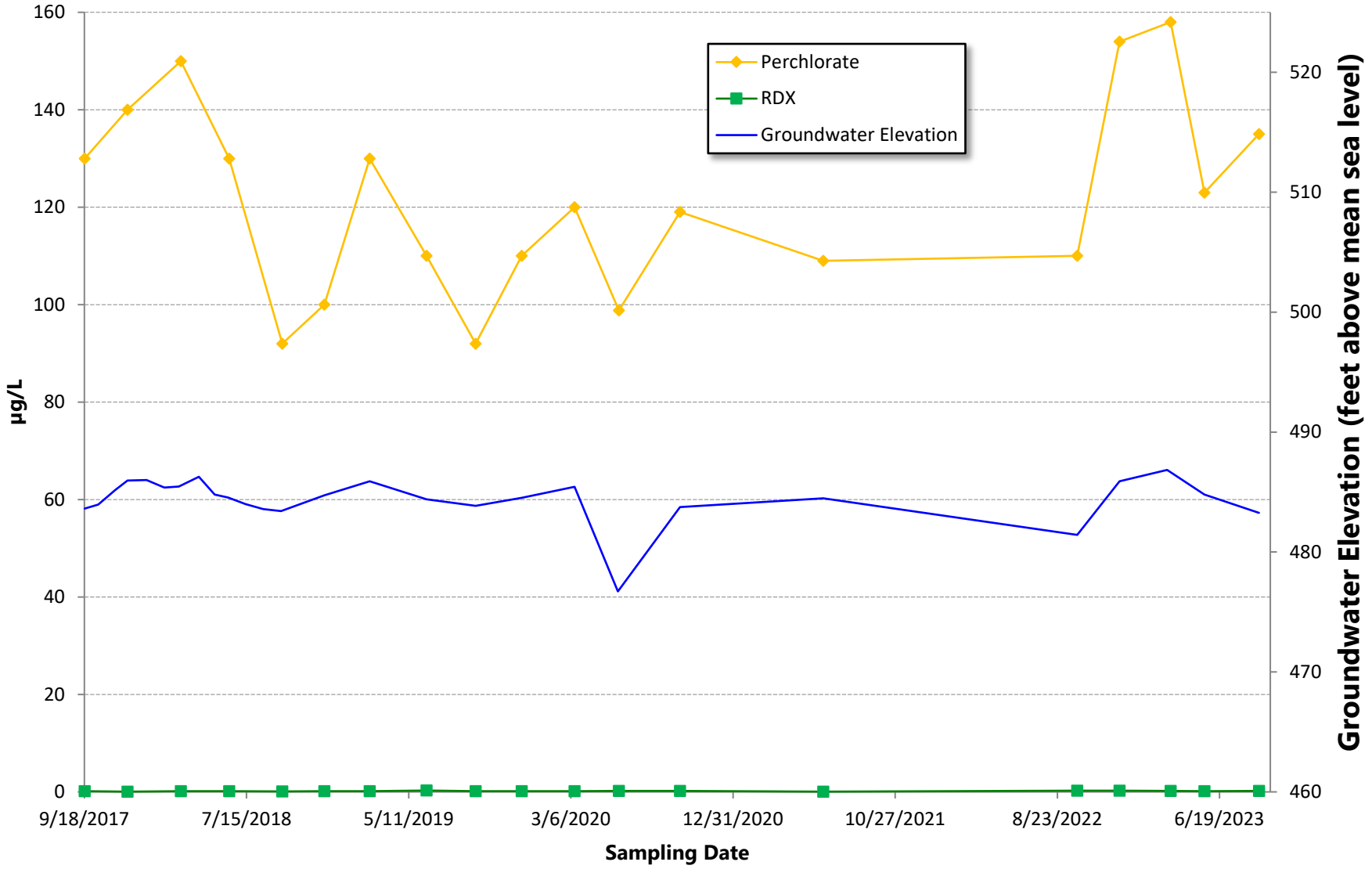
Historical Groundwater Concentrations
Camp Bonneville, Vancouver, Washington - Well L4-MW08B



PBS

January 2024
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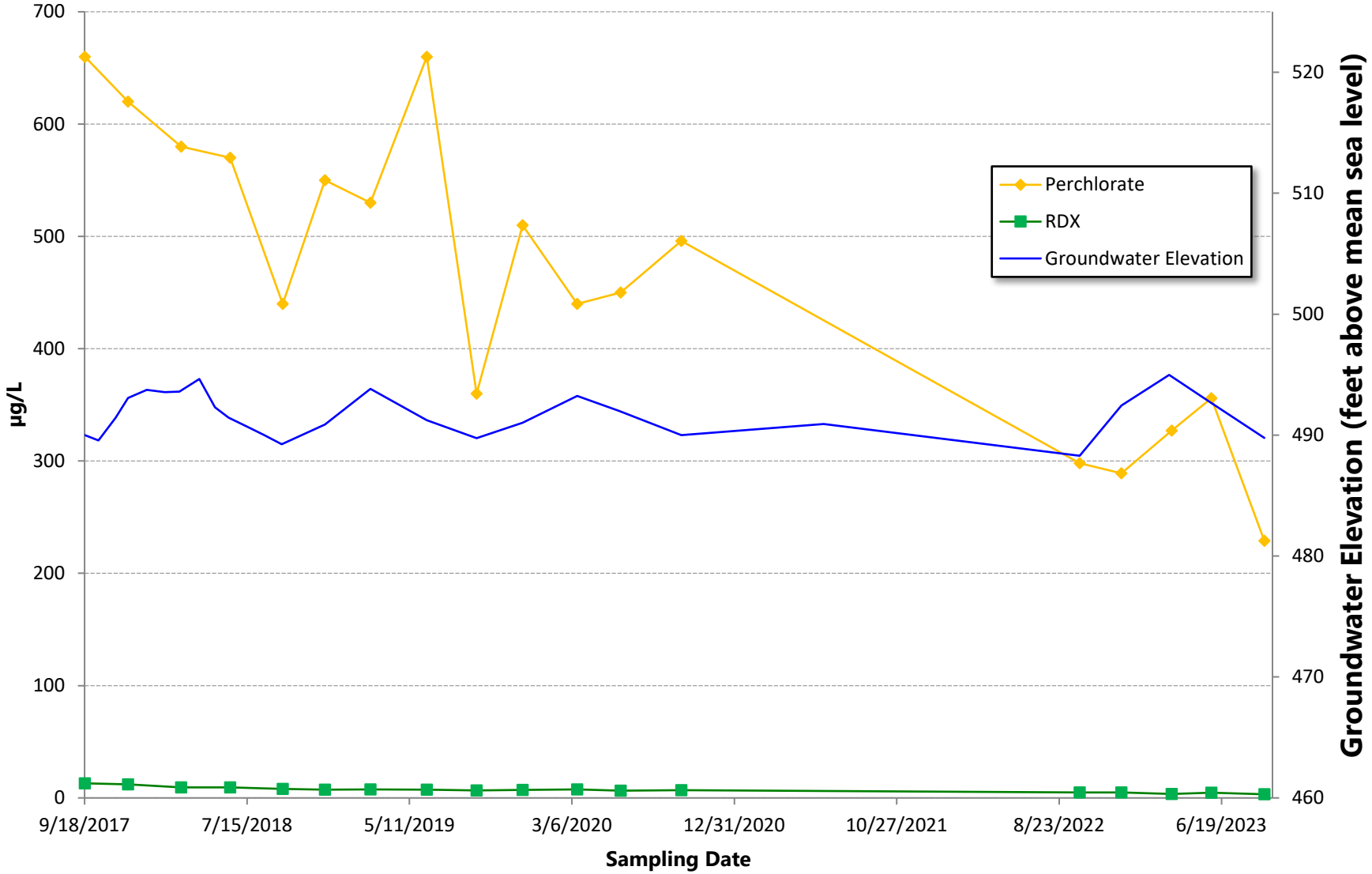
Historical Groundwater Concentrations
Camp Bonneville, Vancouver, Washington - Well L4-MW09A



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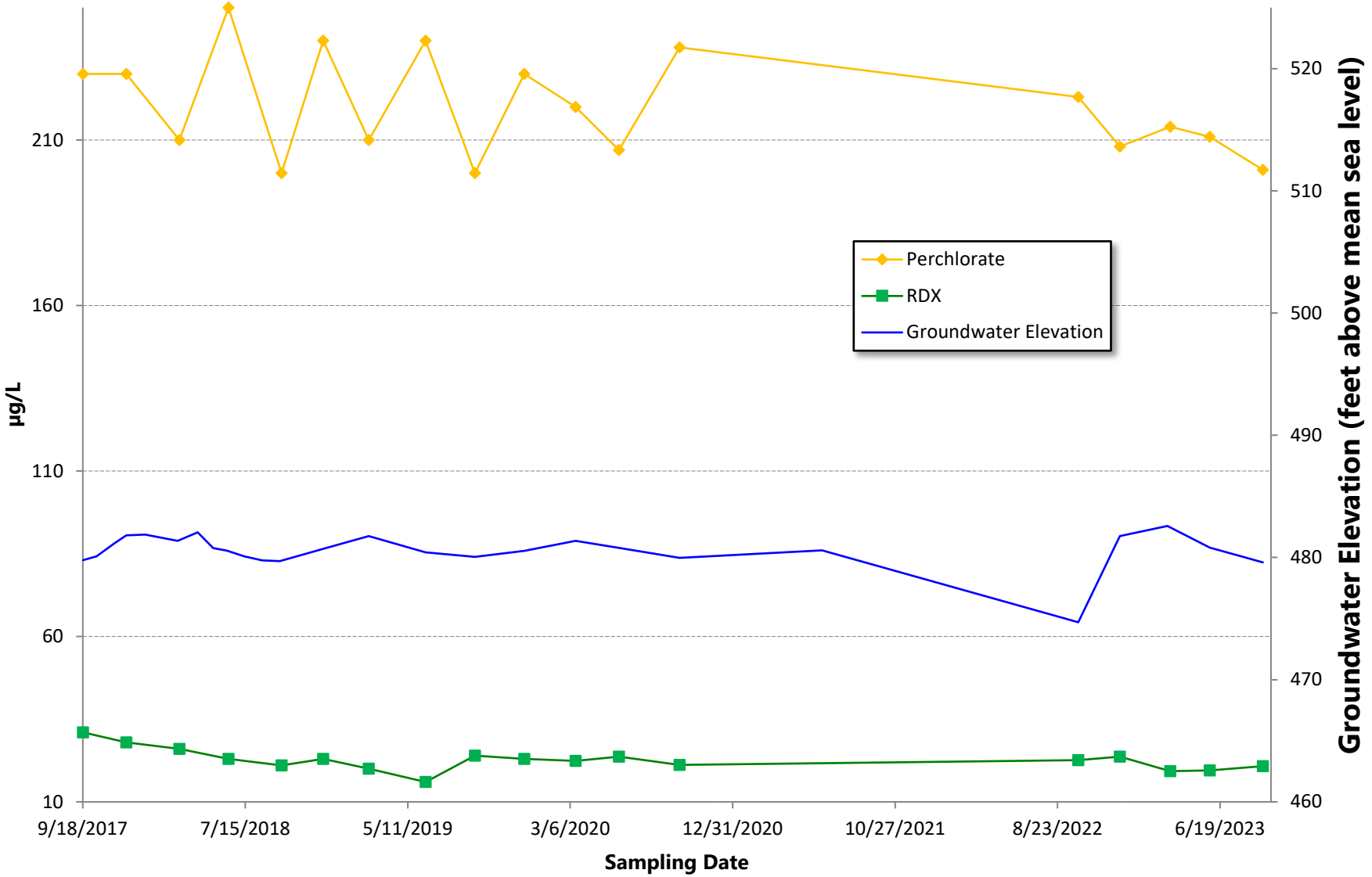
Historical Groundwater Concentrations
Camp Bonneville, Vancouver, Washington - Well L4-MW09B



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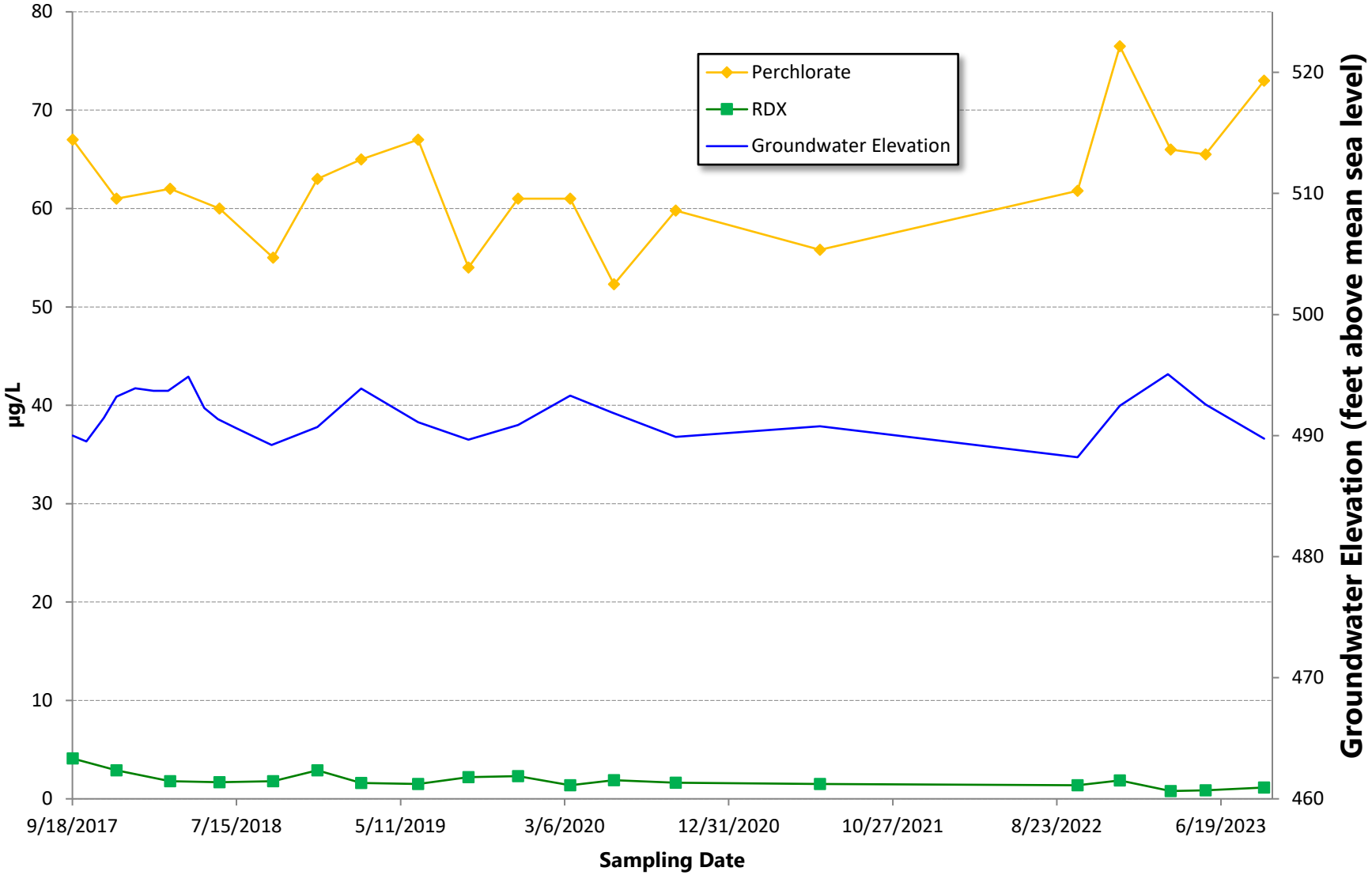
Historical Groundwater Concentrations
Camp Bonneville, Vancouver, Washington - Well L4-MW010A



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Historical Groundwater Concentrations
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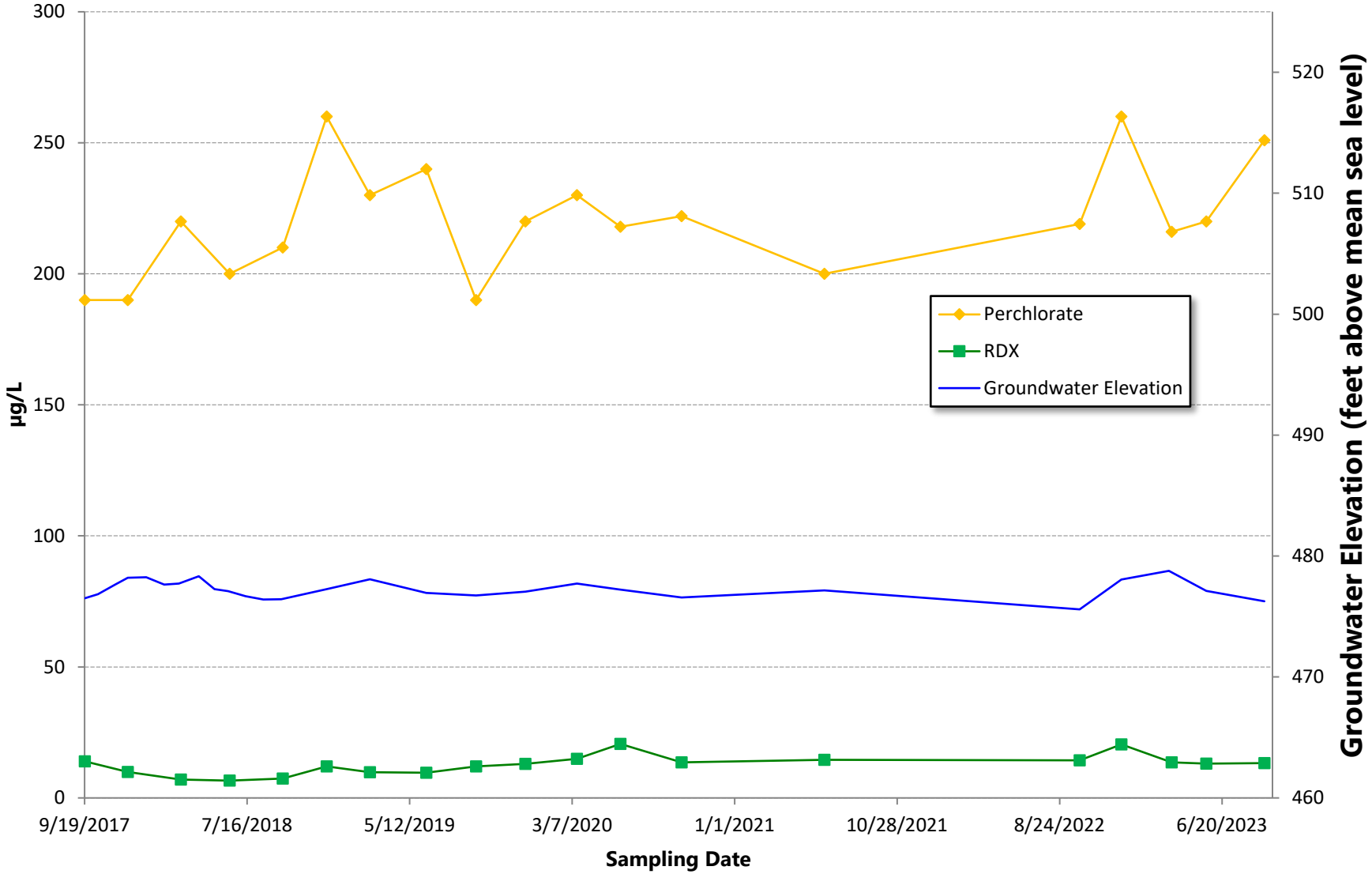

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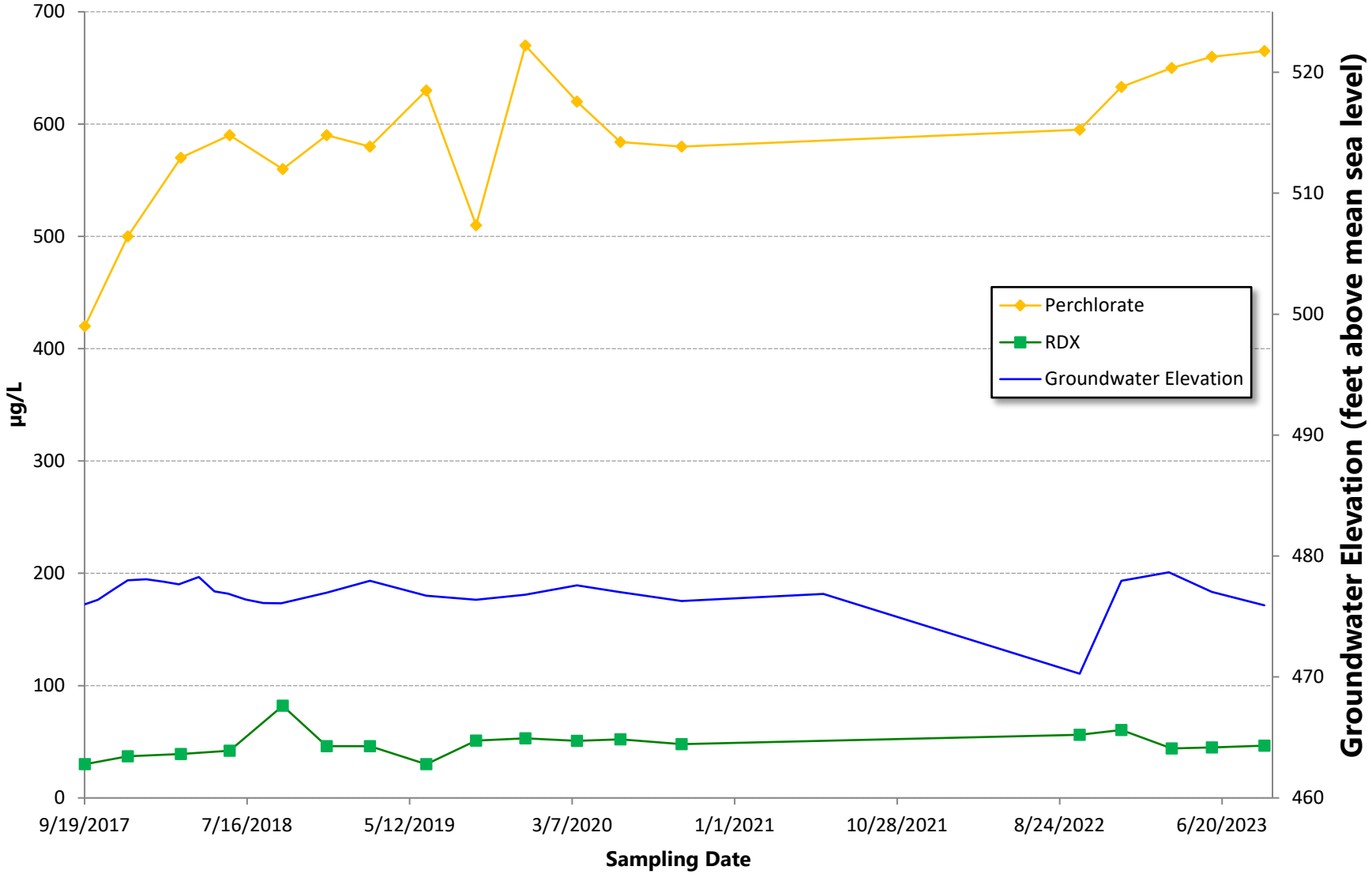
Historical Groundwater Concentrations
Camp Bonneville, Vancouver, Washington - Well L4-MW011B



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