# UNDERGROUND STORAGE TANK INSPECTION REPORT

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

**UST FAC ID:** 22550

| | |
|---|---|
| Inspector's Name: | Matt Rozycki |
| Date: | **June 24, 2024** |
| Time In: | 08:45 |
| Time Out: | 09:00 |
| Inspection Type: | Initial |

## FACILITY NAME / LOCATION

| FACILITY NAME | FACILITY ADDRESS *(number and street)* | | | |
|---|---|---|---|---|
| One Penn Mark Plaza | 11595 N Meridian Street | | | |
| **ADDRESS** *(line 2)* | **CITY** | **STATE** | **ZIP CODE** | **COUNTY** |
| | Carmel | IN | 46032 | Hamilton |

## UST OWNER

| UST Owner Name (Business Name as registered with the Secretary of State) | | | | BUSINESS ID *(From the Secretary of State)* |
|---|---|---|---|---|
| IC Penn Mark LLC | | | | 202202071563550 |
| **PREFIX** | **FIRST NAME** | **MI** | **LAST NAME** | **SUFFIX** |
| | Amy | | Pollock | |
| **TELEPHONE NUMBER** | **EMAIL ADDRESS** | | | |
| (317) 853-7012 | amy.pollock@cushwake.com | | | |

## UST OPERATOR

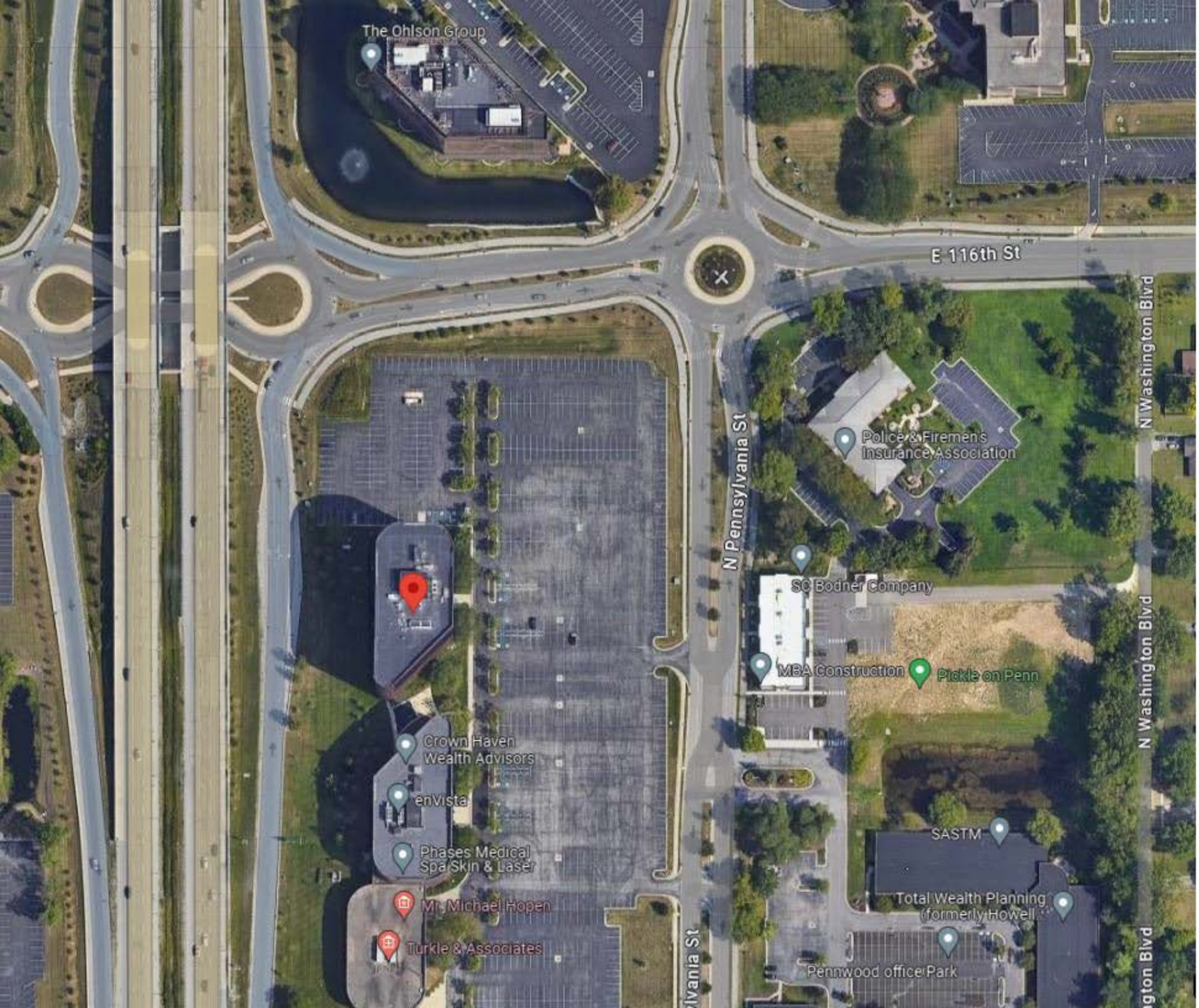
| UST Operator Name (Business Name as registered with the Secretary of State) | | | | BUSINESS ID *(From the Secretary of State)* |
|---|---|---|---|---|
| IC Penn Mark LLC | | | | 202202071563550 |
| **PREFIX** | **FIRST NAME** | **MI** | **LAST NAME** | **SUFFIX** |
| | Amy | | Pollock | |
| **TELEPHONE NUMBER** | **EMAIL ADDRESS** | | | |
| (317) 853-7012 | amy.pollock@cushwake.com | | | |

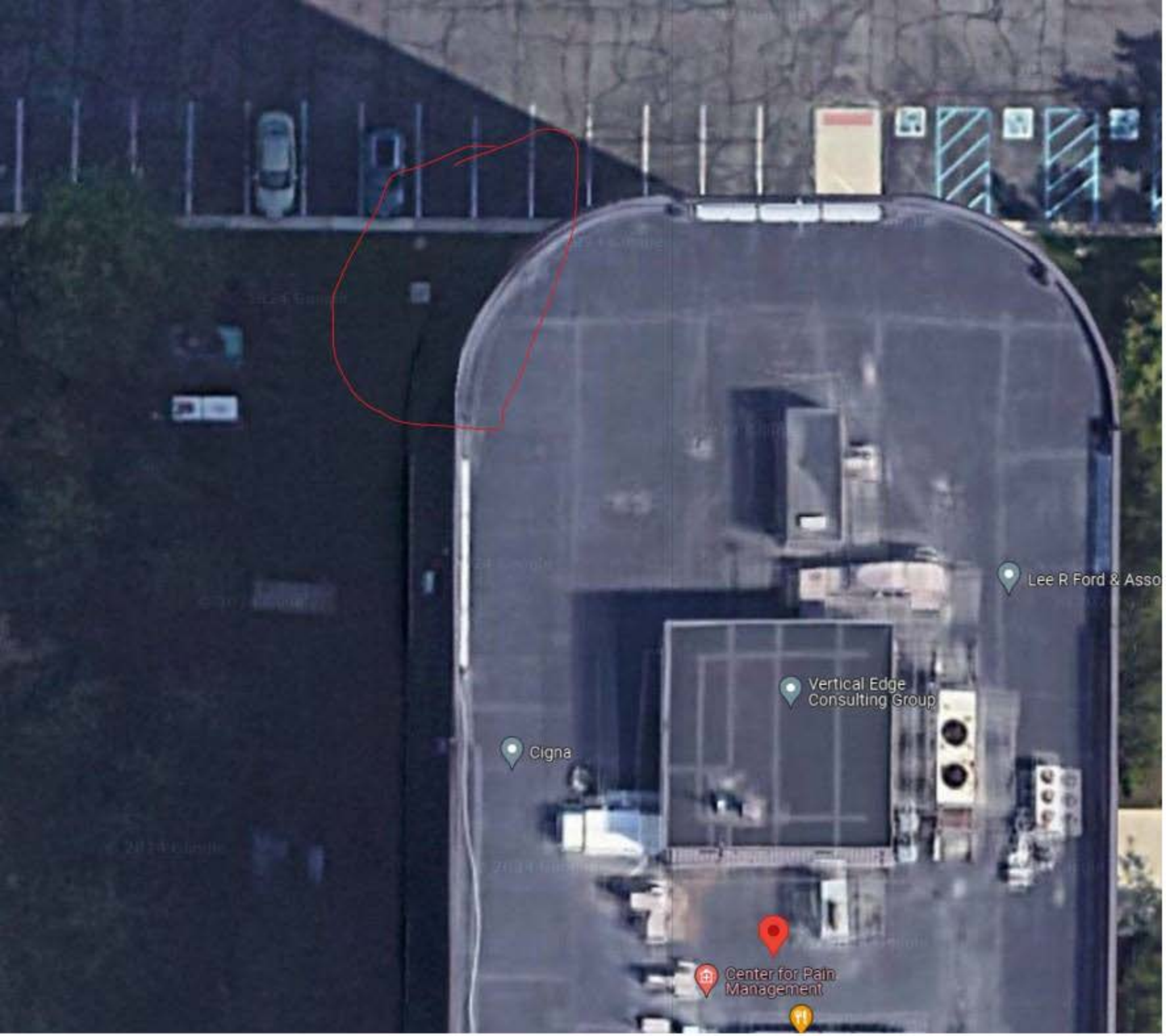
## PROPERTY OWNER

| UST Property Owner Name (Business Name as registered with the Secretary of State) | | | | BUSINESS ID *(From the Secretary of State)* |
|---|---|---|---|---|
| IC Penn Mark LLC | | | | 202202071563550 |
| **PREFIX** | **FIRST NAME** | **MI** | **LAST NAME** | **SUFFIX** |
| | Amy | | Pollock | |
| **TELEPHONE NUMBER** | **EMAIL ADDRESS** | | | |
| (317) 853-7012 | amy.pollock@cushwake.com | | | |

## COMPLIANCE ELEMENTS

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| All USTs properly registered and up-to-date notification form on file | | YES | X | NO | | | | UNK |
| Tank fees are owed for 2016, 2019-2024, updated notification form with current UST owner/site information | | | | | | | | |
| O/O is in compliance with reporting & record keeping requirements | X | YES | | NO | | | | UNK |
| O/O is in compliance with release reporting or investigation | | YES | | NO | X | N/A | | UNK |
| O/O is in compliance with all UST closure requirements | | YES | | NO | X | N/A | | UNK |
| O/O has met all financial responsibility requirements | X | YES | | NO | | N/A | | UNK |
| 40 CFR 280, Subpart A installation requirements (partially excluded) met | X | YES | | NO | | N/A | | UNK |
| 40 CFR 280, Subpart B installation and upgrade requirements met | X | YES | | NO | | | | UNK |
| 40 CFR 280, Subpart C spill/overfill control requirements met | X | YES | | NO | | N/A | | UNK |
| 40 CFR 280, Subpart C compatibility requirements met | X | YES | | NO | | N/A | | UNK |
| 40 CFR 280, Subpart C O&M and testing requirements met | | YES | X | NO | | | | UNK |
| Corrosion protection testing was not provided for the tank, required while tank is in temp closure | | | | | | | | |
| 40 CFR 280, Subpart D release detection requirements met | X | YES | | NO | | | | UNK |
| 40 CFR 280, Subpart J operator training requirements met | | YES | | NO | | | | UNK |
| Operator A & B certificates not provided, required while tank is in temporary closure | | | | | | | | |


The Ohlson Group
E 116th St
N Pennsylvania St
N Washington Blvd
Police & Firemen's Insurance Association
SC Bodner Company
MBA Construction
Pickle on Penn
Crown Haven Wealth Advisors
enVista
Phases Medical Spa Skin & Laser
Mr. Michael Hopen
Turkle & Associates
SASTM
Total Wealth Planning (formerly Howell
Pennwood office Park


Lee R Ford & Asso
Vertical Edge Consulting Group
Cigna
Center for Pain Management


Edward Rose & Sons


RAYMOND JAMES
Wild Ridge

POWER CORP.


MADE IN TAIWAN
DOVER CORP./OPW DIV.
OPW

***Hoosier Equipment Service, Inc.***
8966 Union Mills Drive
Camby, IN 46113

# *Invoice*

| Date | Invoice # |
|---|---|
| 7/10/2020 | 11905 |

| Bill To | Project |
|---|---|
| CBRE<br>8888 Keystone Crossing, Suite 1000<br>Indianapolis, IN 46240 | Liquid Pumping & Fill Port Locking<br>11595 North Meridian Street<br>Carmel, IN<br>PM: Justin Fuller |

| Hoosier Project # | PO# |
|---|---|
| MISC | |

| Description | Amount |
|---|---|
| Charges for service performed July 10, 2020 | |
| 1. Pump, transport & dispose of liquid within tank down to 1 inch | 975.00 |
| 2. Mobilize, labor and Lock Fill Port | 395.00 |

**Total Charges** $1,370.00

Equal Opportunity Employer - Please pay from this invoice. 1-1/2 percent per month finance charge will be assessed on all accounts past 30 days.

| Phone # | Fax # | Web Site |
|---|---|---|
| 317.838.8988 | 317.838.8829 | www.hoosierequipment.com |

# HOOSIER EQUIPMENT SERVICE, INC.

*Unearthing Environmental Field Solutions Since 1978*

July 10, 2020

Justin Fuller
CBRE Property Mgmt
8888 Keystone Crossing, Suite 1000
Indianapolis, IN 46240
Justin.fuller@cbre.com
317-269-1051

Re: Pumping of tank at 11595 N. Meridian St., Carmel, IN

Dear Justin:

Hoosier Equipment Service, Inc. personnel mobilized to the site located at 11595 N. Meridian St., Carmel, IN on 7/10/20 and had the tank liquids pumped, hauled, and transported for offsite disposal. While onsite, our personnel also installed a lock on the fillport so it cannot be accessed.

Photos below show the general tank location and the locked fill cap.

A scan of the receipt for liquids pumping and disposal is also attached.

If you have any questions or require any additional information please let me know.

Best regards,

Anne DaVega
Hoosier Equipment Service, Inc.

# HOOSIER EQUIPMENT SERVICE, INC.

*Unearthing Environmental Field Solutions Since 1978*

8966 Union Mills Drive ▪ Camby, IN 46113 ▪ Telephone (317) 838-8988
Facsimile (317) 838-8829 ▪ www.hoosierequipment.com

BBG
REAL ESTATE SERVICES

The insight you need. The independence you trust.

LIMITED PHASE II ESA REPORT

# One & Two Penn

11555 and 11595 North Meridian Street
Carmel, Indiana 46032
BBG Project No.: 0522003871

**Prepared For**
ICONIC Property Partners
500 North Franklin Turnpike, Suite 300
Ramsey, New Jersey 07446

**Report Date**
April 29, 2022

**Prepared By**
BBG Assessments, LLC
Locations Nationwide

**BBG Main Contact**
Paul Stellato
pstellato@bbgres.com

BBG
REAL ESTATE SERVICES

April 29, 2022

Jonathan Hasten
ICONIC Property Partners
500 north Franklin Turnpike, Suite 300
Ramsey, New Jersey 07446

RE Phase II Limited Environmental Site Assessment of
One & Two Penn
11555 and 11595 North Meridian Street
Carmel, Indiana 46032
BBG Project No.: 0522003871

Dear Mr. Hasten:

BBG Assessments, LLC (BBG) has completed a Phase II Limited Environmental Site Assessment (ESA) of the above referenced property. The work was conducted in accordance with BBG's letter of engagement and generally accepted industry standards. This report was prepared solely for the use of ICONIC Property Partners (hereinafter "Client") and any party specifically referenced in Section 1.4 User Reliance. No other party shall use or rely on this report or the findings herein, without the prior written consent of BBG.

Sincerely,

**BBG ASSESSMENTS, LLC**

Prepared By:

Hannah Knapp
Project Manager

Reviewed By:

Paul Stellato
Managing Director

## TABLE OF CONTENTS

# 1.0 INTRODUCTION

In accordance with our Proposal dated March 22, 2022, BBG is pleased to submit our Phase II Limited Environmental Site Assessment (Phase II ESA) of the property located at 11555 and 11595 North Meridian Street, Carmel, Indiana 46032 herein referred to as the "Property".

## 1.1 Background and Purpose

| | |
|---|---|
| Property Name: | One & Two Penn |
| Property Address: | 11555 and 11595 North Meridian Street |
| City, State Zip Code: | Carmel, Indiana 46032 |

BBG's December 14, 2021 Phase I Environmental Site Assessment (ESA) identified the following Recognized Environmental Condition (REC):

- The Property is equipped with one 550-gallon diesel underground storage tank (UST) that was installed on March 24, 1999. The UST is of steel construction with fiberglass piping. The UST has overfill and spill protection; however, the UST is not equipped with leak detection. The tank is currently registered with the Indiana Department of Environmental Management (IDEM), and the most recent compliance inspection was dated May 28, 2000. Violations were identified in association with the lack of a valid UST notification form; a lack of financial responsibility documentation; and, a lack of leak detection testing. The product was removed from the UST and the tank was taken out of service by Hoosier Equipment Service, Inc. on July 10, 2020. The return to compliance letter was issued on September 28, 2020. The most recent tank tightness test was performed on May 21, 2020 by M&M Service. The UST passed that test. At the time of the site reconnaissance, the UST was not in use. Although the tank is currently in compliance with all applicable regulations, given the age of the tank (over 15 years old) and since there is no current or previous soil or groundwater data to confirm that a release has not occurred, BBG considers the active UST to represent a REC.

In accordance with the Client's request and the above identified environmental concerns, BBG is proposing the following scope of work. The purpose of this investigation was to assess the REC identified in BBG's December 14, 2021 Phase I ESA of the Property. A Property Location Map and a Property Diagram are included in Appendix 1.

## 1.2 Limitations and Exceptions

- The scope of work completed was designed solely to meet the needs of BBG's Client. BBG shall not be liable for any unintended usage of this report by another party.

- No subsurface investigation can wholly eliminate uncertainty regarding the presence of contamination on a property. This assessment was designed to reduce, but not eliminate the potential for RECs at the property, within reasonable limits of time and cost. The ESA is not intended to be exhaustive or all-inclusive and does not represent a guarantee of the identification of all possible environmental risk.

- Client is advised that if the ESA is obtained with the intent of qualifying the purchaser as an innocent landowner, contiguous property owner, or bona fide prospective purchaser under CERCLA, there will be continuing obligations of due care and responsiveness and additional legal requirements that likely apply to such status. BBG accepts and undertakes no responsibility as to such requirements and advises that counsel be separately consulted with respect to such requirements.

### 1.3 Special Terms and Conditions

There are no special terms and conditions associated with this Phase II ESA.

### 1.4 Reliance

This investigation was conducted on behalf of and for the exclusive use of ICONIC Property Partners. This report, and the findings contained herein, shall not, in whole or part, be disseminated or conveyed to or used by any other party without the prior written consent of BBG. Any unauthorized party using or relying upon the Report shall be liable to BBG for equitable compensation and appropriate punitive damages and shall be responsible to reimburse BBG for and indemnify, defend and hold BBG harmless from and against any and all costs, claims, liabilities, expenses, lost profits and damages arising as a direct or indirect result of such unauthorized use or reliance.

## 2.0 PHASE II ACTIVITIES

### 2.1 Preliminary Activities

Utility Clearance

A utility inspection was performed at the Property at least 72 hours prior to the initiation of the sub-surface assessment. This inspection consisted of the marking the underground utility locations by authorized utility locating personnel. Prior to commencement of the drilling activities, BBG contracted Ground Penetrating Radar Services (GPRS) to perform a geophysical survey to verify utility locations prior to boring advancement as well as mark the extent of the UST. The survey consisted of a combination of electromagnetic (EM) and ground-penetrating (GPR) technologies. No utility conflicts were identified in the survey.

### 2.2 Assessment and Sampling Methods

Soil Sampling Activities

On April 6, 2022, BBG conducted a limited subsurface investigation (LSI) to assess subsurface conditions on the Property for impacts from the UST. Three borings, denoted as B-1 through B-3, were advanced at the Property by Roberts Environmental Drilling using a direct-push technology (DPT) drilling rig to depths ranging from 10 to 15 feet below ground surface (bgs). The boring locations are illustrated in Appendix 1, Figure 2.

Continuous soil cores were collected from borings using a MacroCore® sampler lined with an acetate sleeve to the terminal depths of each boring. No photo-ionization detector (PID) readings were detected above 0 parts per million (ppm) in the soil samples collected from the three borings. Based on the scope of work, field observations and nature of previous site uses, soil samples were collected for chemical analysis from each boring at 8-9 feet bgs. Soils at the Property consisted of brown sandy clays and reddish-brown sands. Groundwater was encountered in borings B-1 and B-3 at a depth of approximately 9 feet bgs. Boring logs are included in Appendix 3.

The soil samples were submitted to SGS – North America Inc (SGS), an Indiana-certified laboratory. The soil samples were submitted for analysis of volatile organic compounds (VOCs) by EPA Method 8260 and polynuclear aromatic hydrocarbons (PAHs) by EPA Method 8270. Dedicated laboratory-supplied sample containers were used for sample collection. The samples were placed in an iced cooler after collection. Chain-of-custody records were completed for the samples and included the sample description, date collected, time collected, matrix, sample container information, and analyses required. The chain-of-custody record was signed by BBG prior to delivery to the SGS laboratory.

Groundwater Sampling Activities

Groundwater was observed in borings B-1 and B-3 at a depth of approximately 9 feet bgs. Boring B-2 did not produce sufficient groundwater for sampling. The borings were converted to a temporary groundwater monitoring well utilizing one-inch slotted screen Schedule 40 PVC inserted to the bottom of the boring. A peristaltic pump attached to dedicated disposable tubing was utilized to extract the groundwater sample. The collected groundwater sample was submitted to SGS for analysis of VOCs by EPA Method 8260 and PAHs by EPA Method 8270.

Following completion of the sampling, the three boring locations were abandoned in accordance with Indiana regulations and surface restoration was performed to match the pre-existing surrounding material.

## 2.3 Analytical Results

Soil results were compared to the Indiana Department of Environmental Management (IDEM) Remediation Closure Guide (RCG) Appendix A: Soil Exposure Direct Contact Residential Screening Levels (SLs). Groundwater results were compared to the Indiana Department of Environmental Management (IDEM) Remediation Closure Guide (RCG) Appendix A: Groundwater Screening Levels (GWSL). The soil sample analytical results are summarized in Table 1 and Table 2, Appendix 2. A copy of the laboratory report is provided in Appendix 5.

Soil Results

Soil analytical results detected two VOCs, acetone and toluene. However, none of the reported concentrations exceeded their respective IDEM RCG SLs. No PAHs were detected above laboratory method detection limits (MDLs).

Groundwater Results

Groundwater analytical results detected three VOCs, benzene, ethylbenzene, and xylenes in the groundwater sample collected from B-1-GW. However, none of the reported concentrations exceeded their respective IDEM RCG GWSLs. No PAHs were detected above laboratory MDLs.

## 3.0 FINDINGS, OPINIONS AND CONCLUSIONS

BBG conducted a Phase II ESA at 11555 and 11595 North Meridian Street, Carmel, Indiana 46032 on April 6, 2022. The results of the Phase II ESA activities are summarized below:

- Three soil borings (B-1 through B-3) were advanced at the Property to depths ranging from 10 to 15 feet bgs to assess for potential impacts from historical uses of the Property. Groundwater was encountered in borings B-1 and B-3, at a depth of 10 feet bgs. Three soil samples and two groundwater samples were collected from the Property and analyzed for VOCs by EPA Method 8260 and PAHs by EPA Method 8270.

- Soil analytical results detected two VOCs, acetone and toluene. However, none of the reported concentrations exceeded their respective IDEM RCG SLs. No PAHs were detected above laboratory MDLs.

- Groundwater analytical results detected three VOCs, benzene, ethylbenzene, and xylenes in the groundwater sample collected from B-1-GW. However, none of the reported concentrations exceeded their respective IDEM RCG GWSLs. No PAHs were detected above laboratory MDLs.

Based on the results of this LSI, it appears that the Property has not been significantly impacted by the UST at the Property.

BBG's conclusions are based on the results of the Phase II Limited Site Assessment performed at 11555 and 11595 North Meridian Street, Carmel, Indiana 46032. This investigation was intended to solely assess the REC previously identified as referenced above. It was not intended to satisfy the level of inquiry that may be necessary to support remedial solutions or determine migration pathways related to a release from the REC.

## 4.0 RECOMMENDATIONS

Based on the results of this LSI, it does not appear that the Property has been significantly impacted by the UST. As such, no further action is warranted at this time.

# APPENDIX 1

# FIGURES

BBG
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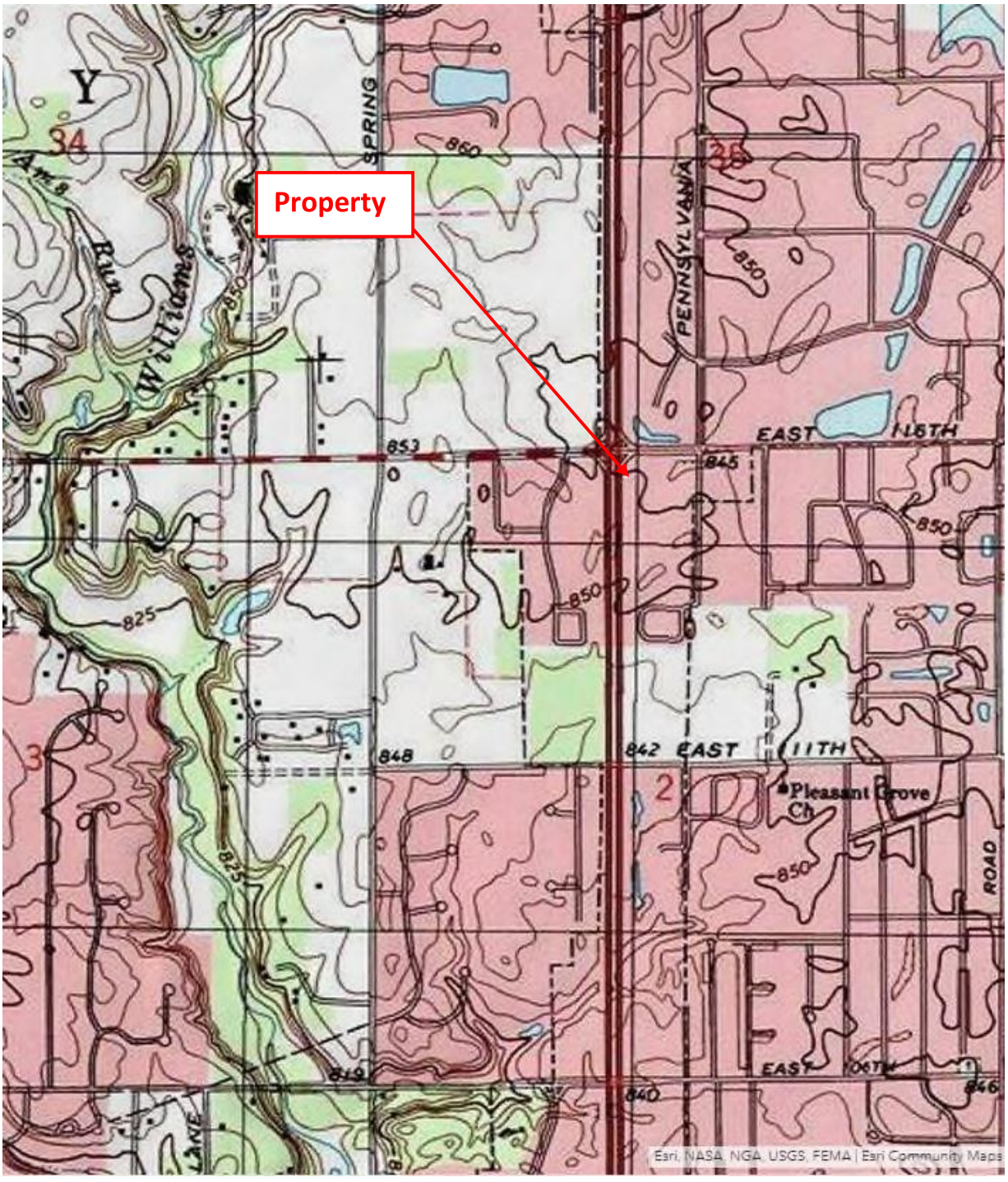


FIGURE 1 – TOPOGRAPHIC MAP

USGS Topographic Map, Carmel, IN Quadrangle (contour interval: 10 ft.)

N


FIGURE 2 - SAMPLING LOCATIONS

Base Map Source – *Google Earth*

N

# APPENDIX 2

# TABLES

**TABLE 1**
**Summary of Soil Analytical Results**
**One Two Penn**
**1155 and 11595 North Meridian Street**
**Carmel, Indiana 46032**
**Project #0522003871**

| Sample ID | B-1 | B-2 | B-3 | IDEM Residential Screening Levels |
|---|---|---|---|---|
| Sample Depth (feet bgs) | 8-9 | 8-9 | 8-9 | |
| Sample Date | 4/6/2022 | 4/6/2022 | 4/6/2022 | |
| **Volatile Organic Compounds (VOCs) EPA Method 8260** | | | | |
| Acetone | 0.0236 | 0.0203 | 0.0417 | 85,000 |
| Toluene | ND | ND | 0.0008 J | 820 |
| **Polynuclear Aromatic Hydrocarbons (PAHs) by EPA Method 8270** | | | | |
| All PAHs | ND | ND | ND | NE |

Notes:

Concentrations reported in milligrams per kilogram (mg/kg)

Indiana Dept. of Environmental Management (IDEM) RCG Appendix A: Soil Exposure Direct Contact Residential Screening Levels

ND = Not Detected, NE = Not Established

J = The identification of the anaylte is acceptable; the reported value is an estimate

**TABLE 2**
**Summary of Groundwater Analytical Results**
**One Two Penn**
**1155 and 11595 North Meridian Street**
**Carmel, Indiana 46032**
**Project #0522003871**

| Sample ID | B-1-GW | B-2-GW | |
|---|---|---|---|
| Sample Date | 4/6/2022 | 4/6/2022 | IDEM GWSL |
| **Volatile Organic Compounds (VOCs) EPA Method 8260** | | | |
| Benzene | 0.45 J | ND | 5 |
| Ethylbenzene | 0.65 J | ND | 700 |
| Xylenes (Total) | 2.4 | ND | 10,000 |
| **Polynuclear Aromatic Hydrocarbons (PAHs) by EPA Method 8270** | | | |
| All PAHs | ND | ND | NE |

Notes:

Concentrations reported in micrograms per liter (µg/L)

IDEM RCG Appendix A: Residential Groundwater Screening Levels (GWSL)

ND = Not Detected, NE = Not Established

J = The identification of the anaylte is acceptable; the reported value is an estimate

**Bold** = Indicates reported concentration exceeds GWSL

# APPENDIX 3

# BORING LOGS

# B-1

| | | | |
|---|---|---|---|
| 0522003871 | One & Two Penn | | 11555 & 11595 N. Meridian St, Carmel, IN |
| Drilling Contractor | Seratech Drilling & Exploration, LLC | Drill Rig | Geoprobe 7822DT |
| Driller | Sean Hall License 4392WD | Ground Elevation | Approx 850' amsl |
| Geologist | Joshua S. Randall, CHMM | Static Water Level | ~9.5 |
| Date Drilled | 4/6/22 | Total Depth of Borehole | 15 Feet |
| Boring Diameter | 2.25 Inches | Boring Method | Direct Push / Continuous |

| Graphic Log | Description | Depth (ft) | Sample | Recovery (ft) | Blow Count | PID (ppm) | Completion |
|---|---|---|---|---|---|---|---|
| | 10YR 3/1 Dark Brown, Vegetated Topsoil Loam (fill) slightly moist | | | | | | |
| | 10YR 4/3 Brown, SILTY CLAY (CL) with trace medium to fine sand, slighlty moist | | | 100% | NA | 0.0 | |
| | 10YR 5/1 Gray, SILTY CLAY (CL) with medium to fine san, slightly moist | | | 100% | NA | 0.0 | |
| | | 5 | | 100% | NA | 0.0 | |
| | | | | 100% | NA | 0.0 | |
| | 10YR 4/3 Brown, SILTY SAND, well graded with gravel (SW), saturated at 9.5 feet bgs | | | 100% | NA | 0.0 | |
| | | 10 | | 100% | NA | 0.0 | |
| | 10YR 4/3 Brown, SILTY CLAY (CL) with trace medium to fine sand, slighlty moist | | | 100% | NA | 0.0 | |
| | | | | 100% | NA | 0.0 | |
| | Bottom of Boring 15' | 15 | | | | | |

# B-2

| | | | |
|---|---|---|---|
| 0522003871 | One & Two Penn | | 11555 & 11595 N. Meridian St, Carmel, IN |
| Drilling Contractor | Seratech Drilling & Exploration, LLC | Drill Rig | Geoprobe 7822DT |
| Driller | Sean Hall License 4392WD | Ground Elevation | Approx 850' amsl |
| Geologist | Joshua S. Randall, CHMM | Static Water Level | ~9.5 |
| Date Drilled | 4/6/22 | Total Depth of Borehole | 10 Feet |
| Boring Diameter | 2.25 Inches | Boring Method | Direct Push / Continuous |

| Graphic Log | Description | Depth (ft) | Sample | Recovery (ft) | Blow Count | PID (ppm) | Completion |
|---|---|---|---|---|---|---|---|
| | 10YR 3/1 Dark Brown, Vegetated Topsoil Loam (fill) slightly moist | | | | | | |
| | 10YR 4/3 Brown, SILTY CLAY (CL) with trace medium to fine sand, slighlty moist | | | 100% | NA | 0.0 | |
| | 10YR 5/1 Gray, SILTY CLAY (CL) with medium to fine san, slightly moist | | | 100% | NA | 0.0 | |
| | | 5 | | 100% | NA | 0.0 | |
| | | | | 100% | NA | 0.0 | |
| | 10YR 4/3 Brown, SILTY SAND, well graded with gravel (SW), saturated at 9.5 feet bgs | | | 100% | NA | 0.0 | |
| | Bottom of Boring 10' | 10 | | | | | |

# B-3

| | | | |
|---|---|---|---|
| 0522003871 | One & Two Penn | | 11555 & 11595 N. Meridian St, Carmel, IN |
| Drilling Contractor | Seratech Drilling & Exploration, LLC | Drill Rig | Geoprobe 7822DT |
| Driller | Sean Hall License 4392WD | Ground Elevation | Approx 850' amsl |
| Geologist | Joshua S. Randall, CHMM | Static Water Level | ~9.5 |
| Date Drilled | 4/6/22 | Total Depth of Borehole | 10 Feet |
| Boring Diameter | 2.25 Inches | Boring Method | Direct Push / Continuous |

| Graphic Log | Description | Depth (ft) | Sample | Recovery (ft) | Blow Count | PID (ppm) | Completion |
|---|---|---|---|---|---|---|---|
| | 10YR 3/1 Dark Brown, Vegetated Topsoil Loam (fill) slightly moist | | | | | | |
| | 10YR 4/3 Brown, SILTY CLAY (CL) with trace medium to fine sand, slighlty moist | | | 100% | NA | 0.0 | |
| | 10YR 5/1 Gray, SILTY CLAY (CL) with medium to fine san, slightly moist | | | 100% | NA | 0.0 | |
| | | 5 | | 100% | NA | 0.0 | |
| | | | | 100% | NA | 0.0 | |
| | 10YR 4/3 Brown, SILTY SAND, well graded with gravel (SW), saturated at 9.5 feet bgs | | | 100% | NA | 0.0 | |
| | Bottom of Boring 10' | 10 | | | | | |

# APPENDIX 4

# PHOTOS

**SITE PHOTOGRAPHIC RECORD**
**Project Name: One & Two Penn**
**11555 & 11595 North Meridian Street in Carmel, IN 46032**
**BBG Project #0522003871**

| Photo #1: | View of site building and UST area (4/6/2022). |
|---|---|


| Photo #2: | View of private utility locator (4/6/2022). |
|---|---|

| Photo #3: | View of utility locating equipment (4/6/2022). |
|---|---|

| Photo #4: | View of soil boring SB-1 (4/6/2022). |
|---|---|

| Photo #5: | View of soil boring SB-2 (4/6/2022). |
|---|---|

| Photo #6: | View of soil boring SB-3 (4/6/2022). |
|---|---|

# APPENDIX 5

# LABORATORY ANALYTICAL REPORT

The results set forth herein are provided by SGS North America Inc.

*e-Hardcopy 2.0*
*Automated Report*

Technical Report for

BBG Assessments, LLC

One & Two Penn:11555 and 11595 North Meridian Street

0522003557

SGS Job Number: JD42660

Sampling Date: 04/06/22

Report to:

BBG Assessment
112 Madison Avenue 11th Floor
New York City, NY 10016
hknapp@bbgres.com; pstellato@bbgres.com

ATTN: Hannah Knapp

Total number of pages in report: 65

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Mike Earp
General Manager

Client Service contact: Tammy McCloskey 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

Sections: 1 2 3 4 5 6 7

# Table of Contents

# Sample Summary

BBG Assessments, LLC

**Job No:** JD42660

One & Two Penn: 11555 and 11595 North Meridian Street
Project No: 0522003557

| Sample Number | Collected Date | Time | By | Received | Matrix Code | Type | Client Sample ID |
|---|---|---|---|---|---|---|---|
| This report contains results reported as ND = Not detected. The following applies: | | | | | | | |
| Organics ND = Not detected above the MDL | | | | | | | |
| JD42660-1 | 04/06/22 | 11:20 | JR | 04/07/22 | SO | Soil | B-1 (8-9) |
| JD42660-2 | 04/06/22 | 11:35 | JR | 04/07/22 | AQ | Ground Water | B-1-GW |
| JD42660-3 | 04/06/22 | 12:00 | JR | 04/07/22 | SO | Soil | B-2 (8-9) |
| JD42660-4 | 04/06/22 | 12:20 | JR | 04/07/22 | SO | Soil | B-3 (8-9) |
| JD42660-5 | 04/06/22 | 12:30 | JR | 04/07/22 | AQ | Ground Water | B-3-GW |

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

# CASE NARRATIVE / CONFORMANCE SUMMARY



| | | | |
|---|---|---|---|
| **Client:** | BBG Assessments, LLC | **Job No:** | JD42660 |
| **Site:** | One & Two Penn:11555 and 11595 North Meridian Street | **Report Date** | 4/19/2022 11:32:19 A |

On 04/07/2022, 5 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 4.3 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD42660 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

## MS Volatiles By Method SW846 8260D

**Matrix:** AQ **Batch ID:** V2V3545

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD42751-7MS, JD42751-7MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- JD42660-2 for Chloromethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD42660-2 for Acetone: Associated CCV outside of control limits high, sample was ND.
- JD42660-5 for Chloromethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD42660-2 for Carbon disulfide: Associated CCV outside of control limits high, sample was ND.
- JD42660-5 for Bromomethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD42660-5 for Carbon disulfide: Associated CCV outside of control limits high, sample was ND.
- JD42660-5 for Acetone: Associated CCV outside of control limits high, sample was ND.
- JD42660-2 for Bromomethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

**Matrix:** SO **Batch ID:** V1C8065

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD42899-1MS, JD42899-2DUP were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Blank Spike Recovery(s) for Bromochloromethane are outside control limits.
- JD42660-1 for Chloroethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD42660-3 for Vinyl chloride: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD42660-3 for Chloromethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- V1C8065-BS for Bromochloromethane: High percent recovery and no associated positive reported in the QC batch.
- JD42660-3 for Carbon disulfide: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD42660-1 for Vinyl chloride: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD42660-3 for Chloroethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD42660-4 for Bromochloromethane: This compound in blank spike is outside in house QC limits bias high.

## MS Volatiles By Method SW846 8260D

**Matrix:** SO **Batch ID:** V1C8065

- JD42660-1 for Carbon disulfide: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD42660-4 for Carbon disulfide: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD42660-4 for Chloroethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD42660-4 for Vinyl chloride: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD42660-1 for Chloromethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD42660-4 for Chloromethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD42660-1 for Bromochloromethane: This compound in blank spike is outside in house QC limits bias high.
- JD42660-3 for Bromochloromethane: This compound in blank spike is outside in house QC limits bias high.

## MS Semi-volatiles By Method SW846 8270E

**Matrix:** AQ **Batch ID:** OP39042

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Blank Spike Recovery(s) for Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Dibenzo(a,h)anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Naphthalene, Phenanthrene, Pyrene are outside control limits.
- OP39042-BS1: Recovery indicates possible low bias. Since balnk spike duplicate recoveries are within control limits, data are qualified and reported.
- OP39042-BS1 for 2-Fluorobiphenyl: Outside of in house control limits.
- OP39042-BSD for Pyrene: Analytical precision exceeds in-house control limits.
- OP39042-BSD for Fluoranthene: Analytical precision exceeds in-house control limits.
- OP39042-BSD for Benzo(a)pyrene: Analytical precision exceeds in-house control limits.
- OP39042-BSD for Acenaphthene: Analytical precision exceeds in-house control limits.
- OP39042-BSD for Acenaphthylene: Analytical precision exceeds in-house control limits.
- OP39042-BSD for Benzo(a)anthracene: Analytical precision exceeds in-house control limits.
- OP39042-BSD for Benzo(b)fluoranthene: Analytical precision exceeds in-house control limits.
- OP39042-BSD for Benzo(g,h,i)perylene: Analytical precision exceeds in-house control limits.
- OP39042-BSD for Benzo(k)fluoranthene: Analytical precision exceeds in-house control limits.
- OP39042-BSD for Chrysene: Analytical precision exceeds in-house control limits.
- OP39042-BSD for Dibenzo(a,h)anthracene: Analytical precision exceeds in-house control limits.
- OP39042-BSD for Fluorene: Analytical precision exceeds in-house control limits.
- OP39042-BSD for Naphthalene: Analytical precision exceeds in-house control limits.
- OP39042-BSD for Phenanthrene: Analytical precision exceeds in-house control limits.
- OP39042-BSD for Anthracene: Analytical precision exceeds in-house control limits.
- OP39042-BSD for Indeno(1,2,3-cd)pyrene: Analytical precision exceeds in-house control limits.

**Matrix:** SO **Batch ID:** OP39053

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD42638-1MS, JD42638-1MSD were used as the QC samples indicated.

## General Chemistry By Method SM2540 G 18TH ED MOD

| Matrix: | SO | Batch ID: | GN28067 |
|---|---|---|---|

- Sample(s) JD42660-1DUP were used as the QC samples for Solids, Percent.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

# Summary of Hits



**Job Number:** JD42660
**Account:** BBG Assessments, LLC
**Project:** One & Two Penn:11555 and 11595 North Meridian Street
**Collected:** 04/06/22



| Lab Sample ID / Analyte | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|---|---|---|---|---|---|---|
| **JD42660-1** | **B-1 (8-9)** | | | | | |
| Acetone | | 23.6 | 13 | 5.4 | ug/kg | SW846 8260D |
| **JD42660-2** | **B-1-GW** | | | | | |
| Benzene | | 0.45 J | 0.50 | 0.43 | ug/l | SW846 8260D |
| Ethylbenzene | | 0.65 J | 1.0 | 0.60 | ug/l | SW846 8260D |
| m,p-Xylene | | 2.4 | 1.0 | 0.78 | ug/l | SW846 8260D |
| Xylene (total) | | 2.4 | 1.0 | 0.59 | ug/l | SW846 8260D |
| **JD42660-3** | **B-2 (8-9)** | | | | | |
| Acetone | | 20.3 | 13 | 5.5 | ug/kg | SW846 8260D |
| **JD42660-4** | **B-3 (8-9)** | | | | | |
| Acetone | | 41.7 | 14 | 5.8 | ug/kg | SW846 8260D |
| Toluene | | 0.80 J | 1.4 | 0.73 | ug/kg | SW846 8260D |
| **JD42660-5** | **B-3-GW** | | | | | |

No hits reported in this sample.

## Sample Results

Report of Analysis

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | B-1 (8-9) | | |
| **Lab Sample ID:** | JD42660-1 | **Date Sampled:** | 04/06/22 |
| **Matrix:** | SO - Soil | **Date Received:** | 04/07/22 |
| **Method:** | SW846 8260D SW846 5035 | **Percent Solids:** | 80.2 |
| **Project:** | One & Two Penn:11555 and 11595 North Meridian Street | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 1C185369.D | 1 | 04/12/22 23:54 | PS | 04/08/22 08:00 | n/a | V1C8065 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 4.8 g |
| Run #2 | |

**VOA TCL List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | 23.6 | 13 | 5.4 | ug/kg | |
| 71-43-2 | Benzene | ND | 0.65 | 0.59 | ug/kg | |
| 74-97-5 | Bromochloromethane [a] | ND | 6.5 | 0.73 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 2.6 | 0.56 | ug/kg | |
| 75-25-2 | Bromoform | ND | 6.5 | 1.8 | ug/kg | |
| 74-83-9 | Bromomethane | ND | 6.5 | 0.99 | ug/kg | |
| 78-93-3 | 2-Butanone (MEK) | ND | 13 | 3.2 | ug/kg | |
| 75-15-0 | Carbon disulfide [b] | ND | 2.6 | 0.69 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 2.6 | 0.80 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 2.6 | 0.60 | ug/kg | |
| 75-00-3 | Chloroethane [b] | ND | 6.5 | 0.77 | ug/kg | |
| 67-66-3 | Chloroform | ND | 2.6 | 0.67 | ug/kg | |
| 74-87-3 | Chloromethane [b] | ND | 6.5 | 2.5 | ug/kg | |
| 110-82-7 | Cyclohexane | ND | 2.6 | 0.85 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.6 | 0.90 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 2.6 | 0.73 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.3 | 0.55 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.3 | 0.71 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.3 | 0.64 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.3 | 0.64 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 6.5 | 0.94 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.3 | 0.64 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.3 | 0.61 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.3 | 0.85 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.3 | 1.1 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.3 | 0.79 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 2.6 | 0.61 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 2.6 | 0.62 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 2.6 | 0.59 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 1.3 | 0.59 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 6.5 | 3.5 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 6.5 | 2.8 | ug/kg | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | B-1 (8-9) | | |
| **Lab Sample ID:** | JD42660-1 | **Date Sampled:** | 04/06/22 |
| **Matrix:** | SO - Soil | **Date Received:** | 04/07/22 |
| **Method:** | SW846 8260D SW846 5035 | **Percent Solids:** | 80.2 |
| **Project:** | One & Two Penn:11555 and 11595 North Meridian Street | | |

**VOA TCL List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 98-82-8 | Isopropylbenzene | ND | 2.6 | 1.8 | ug/kg | |
| 79-20-9 | Methyl Acetate | ND | 6.5 | 1.8 | ug/kg | |
| 108-87-2 | Methylcyclohexane | ND | 2.6 | 1.1 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.3 | 0.61 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 6.5 | 2.9 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 6.5 | 3.4 | ug/kg | |
| 100-42-5 | Styrene | ND | 2.6 | 0.52 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 2.6 | 0.78 | ug/kg | |
| 127-18-4 | Tetrachloroethene | ND | 2.6 | 0.75 | ug/kg | |
| 108-88-3 | Toluene | ND | 1.3 | 0.68 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 6.5 | 3.2 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 6.5 | 3.2 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 2.6 | 0.63 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 2.6 | 0.72 | ug/kg | |
| 79-01-6 | Trichloroethene | ND | 1.3 | 0.99 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 6.5 | 0.89 | ug/kg | |
| 75-01-4 | Vinyl chloride [b] | ND | 2.6 | 0.62 | ug/kg | |
| | m,p-Xylene | ND | 1.3 | 1.2 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 1.3 | 0.59 | ug/kg | |
| 1330-20-7 | Xylene (total) | ND | 1.3 | 0.59 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 110% | | 80-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 100% | | 75-133% |
| 2037-26-5 | Toluene-D8 | 95% | | 79-125% |
| 460-00-4 | 4-Bromofluorobenzene | 90% | | 58-148% |

(a) This compound in blank spike is outside in house QC limits bias high.
(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | B-1 (8-9) | | |
| **Lab Sample ID:** | JD42660-1 | **Date Sampled:** | 04/06/22 |
| **Matrix:** | SO - Soil | **Date Received:** | 04/07/22 |
| **Method:** | SW846 8270E SW846 3546 | **Percent Solids:** | 80.2 |
| **Project:** | One & Two Penn:11555 and 11595 North Meridian Street | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | Z156266.D | 1 | 04/12/22 18:11 | JY | 04/11/22 12:40 | OP39053 | EZ7771 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 31.3 g | 1.0 ml |
| Run #2 | | |

**BN PAH List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | ND | 40 | 14 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 40 | 20 | ug/kg | |
| 120-12-7 | Anthracene | ND | 40 | 24 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 40 | 11 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 40 | 18 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 40 | 18 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 40 | 20 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 40 | 19 | ug/kg | |
| 218-01-9 | Chrysene | ND | 40 | 13 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 40 | 18 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 40 | 18 | ug/kg | |
| 86-73-7 | Fluorene | ND | 40 | 18 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 40 | 19 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 40 | 11 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 40 | 13 | ug/kg | |
| 129-00-0 | Pyrene | ND | 40 | 13 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 56% | | 10-119% |
| 321-60-8 | 2-Fluorobiphenyl | 54% | | 18-112% |
| 1718-51-0 | Terphenyl-d14 | 69% | | 18-125% |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | B-1-GW | | |
| **Lab Sample ID:** | JD42660-2 | **Date Sampled:** | 04/06/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 04/07/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | One & Two Penn:11555 and 11595 North Meridian Street | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2V86396.D | 1 | 04/15/22 11:01 | TS | n/a | n/a | V2V3545 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA TCL List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone [a] | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | 0.45 | 0.50 | 0.43 | ug/l | J |
| 74-97-5 | Bromochloromethane | ND | 1.0 | 0.48 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane [b] | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 6.9 | ug/l | |
| 75-15-0 | Carbon disulfide [a] | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane [b] | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | 0.65 | 1.0 | 0.60 | ug/l | J |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | B-1-GW | | |
| **Lab Sample ID:** | JD42660-2 | **Date Sampled:** | 04/06/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 04/07/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | One & Two Penn:11555 and 11595 North Meridian Street | | |

**VOA TCL List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.90 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.53 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.79 | ug/l | |
| | m,p-Xylene | 2.4 | 1.0 | 0.78 | ug/l | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.59 | ug/l | |
| 1330-20-7 | Xylene (total) | 2.4 | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 83% | | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 89% | | 80-120% |
| 2037-26-5 | Toluene-D8 | 99% | | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 93% | | 82-114% |

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | B-1-GW | | |
| **Lab Sample ID:** | JD42660-2 | **Date Sampled:** | 04/06/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 04/07/22 |
| **Method:** | SW846 8270E SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | One & Two Penn:11555 and 11595 North Meridian Street | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 5P82455.D | 1 | 04/13/22 06:53 | CS | 04/12/22 17:40 | OP39042 | E5P3915 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 290 ml | 1.0 ml |
| Run #2 | | |

**BN PAH List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | ND | 0.86 | 0.53 | ug/l | |
| 208-96-8 | Acenaphthylene | ND | 0.86 | 0.37 | ug/l | |
| 120-12-7 | Anthracene | ND | 0.86 | 0.48 | ug/l | |
| 56-55-3 | Benzo(a)anthracene | ND | 0.86 | 0.44 | ug/l | |
| 50-32-8 | Benzo(a)pyrene | ND | 0.86 | 0.54 | ug/l | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 0.86 | 0.49 | ug/l | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 0.86 | 0.55 | ug/l | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 0.86 | 0.41 | ug/l | |
| 218-01-9 | Chrysene | ND | 0.86 | 0.45 | ug/l | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 0.86 | 0.43 | ug/l | |
| 206-44-0 | Fluoranthene | ND | 0.86 | 0.50 | ug/l | |
| 86-73-7 | Fluorene | ND | 0.86 | 0.51 | ug/l | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 0.86 | 0.55 | ug/l | |
| 91-20-3 | Naphthalene | ND | 0.86 | 0.38 | ug/l | |
| 85-01-8 | Phenanthrene | ND | 0.86 | 0.42 | ug/l | |
| 129-00-0 | Pyrene | ND | 0.86 | 0.43 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 30% | | 28-126% |
| 321-60-8 | 2-Fluorobiphenyl | 36% | | 26-114% |
| 1718-51-0 | Terphenyl-d14 | 33% | | 16-122% |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | B-2 (8-9) | | |
| **Lab Sample ID:** | JD42660-3 | **Date Sampled:** | 04/06/22 |
| **Matrix:** | SO - Soil | **Date Received:** | 04/07/22 |
| **Method:** | SW846 8260D SW846 5035 | **Percent Solids:** | 71.6 |
| **Project:** | One & Two Penn:11555 and 11595 North Meridian Street | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 1C185370.D | 1 | 04/13/22 00:20 | PS | 04/08/22 08:00 | n/a | V1C8065 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 5.3 g |
| Run #2 | |

**VOA TCL List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | 20.3 | 13 | 5.5 | ug/kg | |
| 71-43-2 | Benzene | ND | 0.66 | 0.60 | ug/kg | |
| 74-97-5 | Bromochloromethane [a] | ND | 6.6 | 0.74 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 2.6 | 0.57 | ug/kg | |
| 75-25-2 | Bromoform | ND | 6.6 | 1.8 | ug/kg | |
| 74-83-9 | Bromomethane | ND | 6.6 | 1.0 | ug/kg | |
| 78-93-3 | 2-Butanone (MEK) | ND | 13 | 3.2 | ug/kg | |
| 75-15-0 | Carbon disulfide [b] | ND | 2.6 | 0.70 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 2.6 | 0.81 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 2.6 | 0.60 | ug/kg | |
| 75-00-3 | Chloroethane [b] | ND | 6.6 | 0.78 | ug/kg | |
| 67-66-3 | Chloroform | ND | 2.6 | 0.68 | ug/kg | |
| 74-87-3 | Chloromethane [b] | ND | 6.6 | 2.6 | ug/kg | |
| 110-82-7 | Cyclohexane | ND | 2.6 | 0.87 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.6 | 0.91 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 2.6 | 0.74 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.3 | 0.55 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.3 | 0.72 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.3 | 0.65 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.3 | 0.65 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 6.6 | 0.96 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.3 | 0.65 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.3 | 0.62 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.3 | 0.86 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.3 | 1.1 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.3 | 0.81 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 2.6 | 0.62 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 2.6 | 0.63 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 2.6 | 0.60 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 1.3 | 0.60 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 6.6 | 3.5 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 6.6 | 2.8 | ug/kg | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | B-2 (8-9) | | |
| **Lab Sample ID:** | JD42660-3 | **Date Sampled:** | 04/06/22 |
| **Matrix:** | SO - Soil | **Date Received:** | 04/07/22 |
| **Method:** | SW846 8260D SW846 5035 | **Percent Solids:** | 71.6 |
| **Project:** | One & Two Penn:11555 and 11595 North Meridian Street | | |

**VOA TCL List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 98-82-8 | Isopropylbenzene | ND | 2.6 | 1.9 | ug/kg | |
| 79-20-9 | Methyl Acetate | ND | 6.6 | 1.8 | ug/kg | |
| 108-87-2 | Methylcyclohexane | ND | 2.6 | 1.2 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.3 | 0.62 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 6.6 | 3.0 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 6.6 | 3.4 | ug/kg | |
| 100-42-5 | Styrene | ND | 2.6 | 0.53 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 2.6 | 0.79 | ug/kg | |
| 127-18-4 | Tetrachloroethene | ND | 2.6 | 0.76 | ug/kg | |
| 108-88-3 | Toluene | ND | 1.3 | 0.69 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 6.6 | 3.3 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 6.6 | 3.3 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 2.6 | 0.64 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 2.6 | 0.73 | ug/kg | |
| 79-01-6 | Trichloroethene | ND | 1.3 | 1.0 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 6.6 | 0.90 | ug/kg | |
| 75-01-4 | Vinyl chloride [b] | ND | 2.6 | 0.63 | ug/kg | |
| | m,p-Xylene | ND | 1.3 | 1.2 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 1.3 | 0.60 | ug/kg | |
| 1330-20-7 | Xylene (total) | ND | 1.3 | 0.60 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 110% | | 80-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 98% | | 75-133% |
| 2037-26-5 | Toluene-D8 | 95% | | 79-125% |
| 460-00-4 | 4-Bromofluorobenzene | 90% | | 58-148% |

(a) This compound in blank spike is outside in house QC limits bias high.
(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | B-2 (8-9) | | |
| **Lab Sample ID:** | JD42660-3 | **Date Sampled:** | 04/06/22 |
| **Matrix:** | SO - Soil | **Date Received:** | 04/07/22 |
| **Method:** | SW846 8270E SW846 3546 | **Percent Solids:** | 71.6 |
| **Project:** | One & Two Penn:11555 and 11595 North Meridian Street | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | Z156267.D | 1 | 04/12/22 18:34 | JY | 04/11/22 12:40 | OP39053 | EZ7771 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 31.0 g | 1.0 ml |
| Run #2 | | |

**BN PAH List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | ND | 45 | 16 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 45 | 23 | ug/kg | |
| 120-12-7 | Anthracene | ND | 45 | 28 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 45 | 13 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 45 | 20 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 45 | 20 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 45 | 23 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 45 | 21 | ug/kg | |
| 218-01-9 | Chrysene | ND | 45 | 14 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 45 | 20 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 45 | 20 | ug/kg | |
| 86-73-7 | Fluorene | ND | 45 | 21 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 45 | 21 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 45 | 13 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 45 | 15 | ug/kg | |
| 129-00-0 | Pyrene | ND | 45 | 14 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 60% | | 10-119% |
| 321-60-8 | 2-Fluorobiphenyl | 57% | | 18-112% |
| 1718-51-0 | Terphenyl-d14 | 71% | | 18-125% |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | B-3 (8-9) | | |
| **Lab Sample ID:** | JD42660-4 | **Date Sampled:** | 04/06/22 |
| **Matrix:** | SO - Soil | **Date Received:** | 04/07/22 |
| **Method:** | SW846 8260D SW846 5035 | **Percent Solids:** | 73.0 |
| **Project:** | One & Two Penn:11555 and 11595 North Meridian Street | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 1C185371.D | 1 | 04/13/22 00:47 | PS | 04/08/22 08:00 | n/a | V1C8065 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 4.9 g |
| Run #2 | |

**VOA TCL List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | 41.7 | 14 | 5.8 | ug/kg | |
| 71-43-2 | Benzene | ND | 0.70 | 0.64 | ug/kg | |
| 74-97-5 | Bromochloromethane [a] | ND | 7.0 | 0.78 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 2.8 | 0.60 | ug/kg | |
| 75-25-2 | Bromoform | ND | 7.0 | 1.9 | ug/kg | |
| 74-83-9 | Bromomethane | ND | 7.0 | 1.1 | ug/kg | |
| 78-93-3 | 2-Butanone (MEK) | ND | 14 | 3.4 | ug/kg | |
| 75-15-0 | Carbon disulfide [b] | ND | 2.8 | 0.75 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 2.8 | 0.86 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 2.8 | 0.64 | ug/kg | |
| 75-00-3 | Chloroethane [b] | ND | 7.0 | 0.83 | ug/kg | |
| 67-66-3 | Chloroform | ND | 2.8 | 0.73 | ug/kg | |
| 74-87-3 | Chloromethane [b] | ND | 7.0 | 2.7 | ug/kg | |
| 110-82-7 | Cyclohexane | ND | 2.8 | 0.92 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.8 | 0.97 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 2.8 | 0.78 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.4 | 0.59 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.4 | 0.76 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.4 | 0.69 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.4 | 0.69 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 7.0 | 1.0 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.4 | 0.69 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.4 | 0.66 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.4 | 0.92 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.4 | 1.2 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.4 | 0.85 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 2.8 | 0.66 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 2.8 | 0.66 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 2.8 | 0.64 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 1.4 | 0.63 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 7.0 | 3.7 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 7.0 | 3.0 | ug/kg | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | B-3 (8-9) | | |
| **Lab Sample ID:** | JD42660-4 | **Date Sampled:** | 04/06/22 |
| **Matrix:** | SO - Soil | **Date Received:** | 04/07/22 |
| **Method:** | SW846 8260D SW846 5035 | **Percent Solids:** | 73.0 |
| **Project:** | One & Two Penn:11555 and 11595 North Meridian Street | | |

**VOA TCL List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 98-82-8 | Isopropylbenzene | ND | 2.8 | 2.0 | ug/kg | |
| 79-20-9 | Methyl Acetate | ND | 7.0 | 1.9 | ug/kg | |
| 108-87-2 | Methylcyclohexane | ND | 2.8 | 1.2 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.4 | 0.66 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 7.0 | 3.2 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 7.0 | 3.6 | ug/kg | |
| 100-42-5 | Styrene | ND | 2.8 | 0.56 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 2.8 | 0.84 | ug/kg | |
| 127-18-4 | Tetrachloroethene | ND | 2.8 | 0.81 | ug/kg | |
| 108-88-3 | Toluene | 0.80 | 1.4 | 0.73 | ug/kg | J |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 7.0 | 3.5 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 7.0 | 3.5 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 2.8 | 0.68 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 2.8 | 0.77 | ug/kg | |
| 79-01-6 | Trichloroethene | ND | 1.4 | 1.1 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 7.0 | 0.96 | ug/kg | |
| 75-01-4 | Vinyl chloride [b] | ND | 2.8 | 0.67 | ug/kg | |
| | m,p-Xylene | ND | 1.4 | 1.3 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 1.4 | 0.64 | ug/kg | |
| 1330-20-7 | Xylene (total) | ND | 1.4 | 0.64 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 110% | | 80-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 100% | | 75-133% |
| 2037-26-5 | Toluene-D8 | 95% | | 79-125% |
| 460-00-4 | 4-Bromofluorobenzene | 90% | | 58-148% |

(a) This compound in blank spike is outside in house QC limits bias high.
(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | B-3 (8-9) | | |
| **Lab Sample ID:** | JD42660-4 | **Date Sampled:** | 04/06/22 |
| **Matrix:** | SO - Soil | **Date Received:** | 04/07/22 |
| **Method:** | SW846 8270E SW846 3546 | **Percent Solids:** | 73.0 |
| **Project:** | One & Two Penn:11555 and 11595 North Meridian Street | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | Z156268.D | 1 | 04/12/22 18:58 | JY | 04/11/22 12:40 | OP39053 | EZ7771 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 31.8 g | 1.0 ml |
| Run #2 | | |

**BN PAH List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | ND | 43 | 15 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 43 | 22 | ug/kg | |
| 120-12-7 | Anthracene | ND | 43 | 26 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 43 | 12 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 43 | 20 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 43 | 19 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 43 | 22 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 43 | 20 | ug/kg | |
| 218-01-9 | Chrysene | ND | 43 | 14 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 43 | 19 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 43 | 19 | ug/kg | |
| 86-73-7 | Fluorene | ND | 43 | 20 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 43 | 20 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 43 | 12 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 43 | 14 | ug/kg | |
| 129-00-0 | Pyrene | ND | 43 | 14 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 55% | | 10-119% |
| 321-60-8 | 2-Fluorobiphenyl | 54% | | 18-112% |
| 1718-51-0 | Terphenyl-d14 | 67% | | 18-125% |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | B-3-GW | | |
| **Lab Sample ID:** | JD42660-5 | **Date Sampled:** | 04/06/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 04/07/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | One & Two Penn:11555 and 11595 North Meridian Street | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2V86397.D | 1 | 04/15/22 11:24 | TS | n/a | n/a | V2V3545 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA TCL List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone [a] | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 1.0 | 0.48 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane [b] | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 6.9 | ug/l | |
| 75-15-0 | Carbon disulfide [a] | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane [b] | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | B-3-GW | | |
| **Lab Sample ID:** | JD42660-5 | **Date Sampled:** | 04/06/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 04/07/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | One & Two Penn:11555 and 11595 North Meridian Street | | |

**VOA TCL List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.90 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.53 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.79 | ug/l | |
| | m,p-Xylene | ND | 1.0 | 0.78 | ug/l | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.59 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 84% | | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 91% | | 80-120% |
| 2037-26-5 | Toluene-D8 | 98% | | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 93% | | 82-114% |

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | B-3-GW | | |
| **Lab Sample ID:** | JD42660-5 | **Date Sampled:** | 04/06/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 04/07/22 |
| **Method:** | SW846 8270E SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | One & Two Penn:11555 and 11595 North Meridian Street | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 5P82456.D | 1 | 04/13/22 07:19 | CS | 04/12/22 17:40 | OP39042 | E5P3915 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 280 ml | 1.0 ml |
| Run #2 | | |

**BN PAH List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | ND | 0.89 | 0.55 | ug/l | |
| 208-96-8 | Acenaphthylene | ND | 0.89 | 0.38 | ug/l | |
| 120-12-7 | Anthracene | ND | 0.89 | 0.50 | ug/l | |
| 56-55-3 | Benzo(a)anthracene | ND | 0.89 | 0.46 | ug/l | |
| 50-32-8 | Benzo(a)pyrene | ND | 0.89 | 0.56 | ug/l | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 0.89 | 0.51 | ug/l | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 0.89 | 0.57 | ug/l | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 0.89 | 0.43 | ug/l | |
| 218-01-9 | Chrysene | ND | 0.89 | 0.46 | ug/l | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 0.89 | 0.45 | ug/l | |
| 206-44-0 | Fluoranthene | ND | 0.89 | 0.51 | ug/l | |
| 86-73-7 | Fluorene | ND | 0.89 | 0.53 | ug/l | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 0.89 | 0.57 | ug/l | |
| 91-20-3 | Naphthalene | ND | 0.89 | 0.39 | ug/l | |
| 85-01-8 | Phenanthrene | ND | 0.89 | 0.43 | ug/l | |
| 129-00-0 | Pyrene | ND | 0.89 | 0.44 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 64% | | 28-126% |
| 321-60-8 | 2-Fluorobiphenyl | 61% | | 26-114% |
| 1718-51-0 | Terphenyl-d14 | 55% | | 16-122% |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

## Misc. Forms

5

# Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

# CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.sgs.com/ehsusa

EHSA-QAC-0023-04-FORM-Standard COC

Page 1 of 1 PN

FED-EX Tracking # 5372 0640 3254 | Bottle Order Control # TS 032922-17
SGS Quote # | SGS Job # JD42660

**Client / Reporting Information**

Company Name: BBG Assessments LLC
Street Address: 4615 Southwest Freeway Suite 400
City: Houston State: TX Zip: 77027
Project Contact: Hannah Knapp E-mail: hknapp@BBGRex.com
Phone #: 832-405-6476
Sampler(s) Name(s): Josh Randall Phone #: 3174994701

**Project Information**

Project Name: One & Two Penn
Street: 11555 & 11595 N. Meridian
City: Carmel State: IN Zip:
Project #: 052200355-7
Client Purchase Order #:
Project Manager:
Attention:

**Billing Information (if different from Report to)**

Company Name:
Street Address:
City: State: Zip:

**Requested Analysis**

VOC 8260
PAH 8270

**Matrix Codes**

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB - Field Blank
EB-Equipment Blank
RB - Rinse Blank
TB - Trip Blank

| SGS Sample # | Field ID / Point of Collection | MEOH/DI Vial # | Collection Date | Time | Sampled by | Grab (G) Comp (C) | Source Chlorinated (Y/N) | Matrix | # of bottles | Preserved: HCl | NaOH | $HNO_3$ | $H_2SO_4$ | NONE | DI Water | MEOH | ENCORE | pH Check: VOC | pH Check: PAH | LAB USE ONLY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | B-1 (8-9) | | 4/6/22 | 11:20 | JR | G | N | SO | 2 | | | | | X | | | | X | X | 633 |
| 2 | B-1-GW | • | 4/6/22 | 11:35 | JR | G | N | GW | 5 | X | | | | X | | | | X | X | 6520 |
| 3 | B-2 (8-9) | | 4/6/22 | 12:00 | JR | G | N | SO | 2 | | | | | X | | | | X | X | 1229 |
| 4 | B-3 (8-9) | | 4/6/22 | 12:20 | JR | G | N | SO | 2 | | | | | X | | | | X | X | 8831 |
| 5 | B-3-GW | • | 4/6/22 | 12:30 | JR | G | N | GW | 5 | X | | | | X | | | | X | X | 1463 |
| | | | | | | | | | | | | | | | | | | | | 4924 |

**Turn Around Time (Business Days)**

Approved By (SGS PM): / Date:

- [ ] 10 Business Days
- [X] 5 Business Days
- [ ] 3 Business Days*
- [ ] 2 Business Days*
- [ ] 1 Business Day*
- [ ] Other

All data available via Lablink | * Approval needed for 1-3 Business Day TAT

**Deliverable**

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] NJ Reduced (Level 3)
- [ ] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] MA MCP Criteria
- [ ] CT RCP Criteria
- [ ] State Forms
- [ ] EDD Format
- [ ] DOD-QSM5

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

**Comments / Special Instructions**

Project # 052200355-7
0.2x250ml/NP
8270

http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

| | Relinquished by: | Date / Time: | Received By: | Relinquished By: | Date / Time: | Received By: |
|---|---|---|---|---|---|---|
| 1 | | 4/6/22 17:00 | FEDEX | FEDEX | 04/07/2022 | 9:50 am |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |

Custody Seal # | Intact | Not Intact | Absent
Therm ID: | On Ice | See Sample Receipt Summary | Cooler Temp. °C: 4.3

Initial Assessment: NA (LM)
Label Verification:

**JD42660: Chain of Custody**
**Page 1 of 3**

# SGS Sample Receipt Summary

**Job Number:** JD42660 **Client:** BBG ASSESSMENTS, LLC **Project:** ONE & TWO PENN: 11555 AND 11595 NORT

**Date / Time Received:** 4/7/2022 9:05:00 AM **Delivery Method:** _____ **Airbill #'s:** _____

**Cooler Temps (Raw Measured) °C:** Cooler 1: (4.3);

**Cooler Temps (Corrected) °C:** Cooler 1: (4.3);

| Cooler Security | Y | or | N | | Y | or | N |
|---|---|---|---|---|---|---|---|
| 1. Custody Seals Present: | ☑ | | ☐ | 3. COC Present: | ☑ | | ☐ |
| 2. Custody Seals Intact: | ☑ | | ☐ | 4. Smpl Dates/Time OK | ☑ | | ☐ |

| Cooler Temperature | Y | or | N |
|---|---|---|---|
| 1. Temp criteria achieved: | ☑ | | ☐ |
| 2. Cooler temp verification: | | | |
| 3. Cooler media: | Ice (Bag) | | |
| 4. No. Coolers: | 1 | | |

| Quality Control Preservation | Y | or | N | N/A |
|---|---|---|---|---|
| 1. Trip Blank present / cooler: | ☐ | | ☑ | ☐ |
| 2. Trip Blank listed on COC: | ☐ | | ☑ | ☐ |
| 3. Samples preserved properly: | ☑ | | ☐ | |
| 4. VOCs headspace free: | ☑ | | ☐ | ☐ |

| Sample Integrity - Documentation | Y | or | N |
|---|---|---|---|
| 1. Sample labels present on bottles: | ☑ | | ☐ |
| 2. Container labeling complete: | ☑ | | ☐ |
| 3. Sample container label / COC agree: | ☑ | | ☐ |

| Sample Integrity - Condition | Y | or | N |
|---|---|---|---|
| 1. Sample recvd within HT: | ☑ | | ☐ |
| 2. All containers accounted for: | ☑ | | ☐ |
| 3. Condition of sample: | Intact | | |

| Sample Integrity - Instructions | Y | or | N | N/A |
|---|---|---|---|---|
| 1. Analysis requested is clear: | ☑ | | ☐ | |
| 2. Bottles received for unspecified tests | ☐ | | ☑ | |
| 3. Sufficient volume recvd for analysis: | ☑ | | ☐ | |
| 4. Compositing instructions clear: | ☐ | | ☐ | ☑ |
| 5. Filtering instructions clear: | ☐ | | ☐ | ☑ |

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify) _____ _____

Comments 1.) LL VO prep needs to be done in lab for -1, -3, and -4.

5.1 5

Responded to by: NA

Response Date: 4/8/2022

Proceed as noted



## JD42660: Chain of Custody
## Page 3 of 3

## MS Volatiles

6

### QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Surrogate Recovery Summaries

# Method Blank Summary



**Job Number:** JD42660
**Account:** BBGTXH BBG Assessments, LLC
**Project:** One & Two Penn:11555 and 11595 North Meridian Street

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V1C8065-MB | 1C185353.D | 1 | 04/12/22 | PS | n/a | n/a | V1C8065 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD42660-1, JD42660-3, JD42660-4

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 4.1 | ug/kg | |
| 71-43-2 | Benzene | ND | 0.50 | 0.46 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 5.0 | 0.56 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 2.0 | 0.43 | ug/kg | |
| 75-25-2 | Bromoform | ND | 5.0 | 1.4 | ug/kg | |
| 74-83-9 | Bromomethane | ND | 5.0 | 0.76 | ug/kg | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.4 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.54 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 2.0 | 0.62 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 2.0 | 0.46 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 5.0 | 0.59 | ug/kg | |
| 67-66-3 | Chloroform | ND | 2.0 | 0.52 | ug/kg | |
| 74-87-3 | Chloromethane | ND | 5.0 | 2.0 | ug/kg | |
| 110-82-7 | Cyclohexane | ND | 2.0 | 0.66 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.69 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 2.0 | 0.56 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.42 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.55 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.50 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.49 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 0.73 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.50 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.47 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.66 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.84 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.61 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 2.0 | 0.47 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 2.0 | 0.48 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 2.0 | 0.46 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.45 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 5.0 | 2.7 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.1 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 2.0 | 1.4 | ug/kg | |
| 79-20-9 | Methyl Acetate | ND | 5.0 | 1.4 | ug/kg | |
| 108-87-2 | Methylcyclohexane | ND | 2.0 | 0.88 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.47 | ug/kg | |

# Method Blank Summary

**Job Number:** JD42660
**Account:** BBGTXH BBG Assessments, LLC
**Project:** One & Two Penn:11555 and 11595 North Meridian Street

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V1C8065-MB | 1C185353.D | 1 | 04/12/22 | PS | n/a | n/a | V1C8065 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD42660-1, JD42660-3, JD42660-4

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 2.3 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 5.0 | 2.6 | ug/kg | |
| 100-42-5 | Styrene | ND | 2.0 | 0.40 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 2.0 | 0.60 | ug/kg | |
| 127-18-4 | Tetrachloroethene | ND | 2.0 | 0.58 | ug/kg | |
| 108-88-3 | Toluene | ND | 1.0 | 0.53 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.0 | 2.5 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.0 | 2.5 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 2.0 | 0.48 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 2.0 | 0.55 | ug/kg | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.76 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.0 | 0.68 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 2.0 | 0.48 | ug/kg | |
| | m,p-Xylene | ND | 1.0 | 0.90 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.46 | ug/kg | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.46 | ug/kg | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 102% | 80-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 89% | 75-133% |
| 2037-26-5 | Toluene-D8 | 96% | 79-125% |
| 460-00-4 | 4-Bromofluorobenzene | 90% | 58-148% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---|---|---|---|---|---|
| | Total TIC, Volatile | | 0 | ug/kg | |

# Method Blank Summary



**Job Number:** JD42660
**Account:** BBGTXH BBG Assessments, LLC
**Project:** One & Two Penn:11555 and 11595 North Meridian Street

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2V3545-MB | 2V86395.D | 1 | 04/15/22 | TS | n/a | n/a | V2V3545 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD42660-2, JD42660-5

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 1.0 | 0.48 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 6.9 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |

# Method Blank Summary

**Job Number:** JD42660
**Account:** BBGTXH BBG Assessments, LLC
**Project:** One & Two Penn:11555 and 11595 North Meridian Street

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2V3545-MB | 2V86395.D | 1 | 04/15/22 | TS | n/a | n/a | V2V3545 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD42660-2, JD42660-5

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.90 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.53 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.79 | ug/l | |
| | m,p-Xylene | ND | 1.0 | 0.78 | ug/l | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.59 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 83% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 89% | 80-120% |
| 2037-26-5 | Toluene-D8 | 99% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 94% | 82-114% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---|---|---|---|---|---|
| | Total TIC, Volatile | | 0 | ug/l | |

# Blank Spike Summary



**Job Number:** JD42660
**Account:** BBGTXH BBG Assessments, LLC
**Project:** One & Two Penn:11555 and 11595 North Meridian Street

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V1C8065-BS | 1C185351.D | 1 | 04/12/22 | PS | n/a | n/a | V1C8065 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD42660-1, JD42660-3, JD42660-4

| CAS No. | Compound | Spike ug/kg | BSP ug/kg | BSP % | Limits |
|---|---|---|---|---|---|
| 67-64-1 | Acetone | 200 | 193 | 97 | 52-156 |
| 71-43-2 | Benzene | 50 | 46.6 | 93 | 82-119 |
| 74-97-5 | Bromochloromethane | 50 | 63.4 | 127* [a] | 82-123 |
| 75-27-4 | Bromodichloromethane | 50 | 54.4 | 109 | 83-121 |
| 75-25-2 | Bromoform | 50 | 59.8 | 120 | 74-138 |
| 74-83-9 | Bromomethane | 50 | 47.8 | 96 | 56-150 |
| 78-93-3 | 2-Butanone (MEK) | 200 | 210 | 105 | 72-138 |
| 75-15-0 | Carbon disulfide | 50 | 44.3 | 89 | 67-131 |
| 56-23-5 | Carbon tetrachloride | 50 | 62.9 | 126 | 72-130 |
| 108-90-7 | Chlorobenzene | 50 | 51.9 | 104 | 83-114 |
| 75-00-3 | Chloroethane | 50 | 44.0 | 88 | 67-141 |
| 67-66-3 | Chloroform | 50 | 51.2 | 102 | 76-115 |
| 74-87-3 | Chloromethane | 50 | 42.9 | 86 | 57-141 |
| 110-82-7 | Cyclohexane | 50 | 48.3 | 97 | 69-130 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 50 | 50.7 | 101 | 72-131 |
| 124-48-1 | Dibromochloromethane | 50 | 61.7 | 123 | 80-128 |
| 106-93-4 | 1,2-Dibromoethane | 50 | 55.1 | 110 | 58-145 |
| 95-50-1 | 1,2-Dichlorobenzene | 50 | 50.9 | 102 | 83-117 |
| 541-73-1 | 1,3-Dichlorobenzene | 50 | 49.9 | 100 | 82-114 |
| 106-46-7 | 1,4-Dichlorobenzene | 50 | 49.9 | 100 | 79-114 |
| 75-71-8 | Dichlorodifluoromethane | 50 | 46.2 | 92 | 49-146 |
| 75-34-3 | 1,1-Dichloroethane | 50 | 45.8 | 92 | 76-126 |
| 107-06-2 | 1,2-Dichloroethane | 50 | 48.3 | 97 | 76-118 |
| 75-35-4 | 1,1-Dichloroethene | 50 | 46.6 | 93 | 72-125 |
| 156-59-2 | cis-1,2-Dichloroethene | 50 | 48.6 | 97 | 80-118 |
| 156-60-5 | trans-1,2-Dichloroethene | 50 | 48.2 | 96 | 76-122 |
| 78-87-5 | 1,2-Dichloropropane | 50 | 46.5 | 93 | 82-123 |
| 10061-01-5 | cis-1,3-Dichloropropene | 50 | 50.5 | 101 | 83-123 |
| 10061-02-6 | trans-1,3-Dichloropropene | 50 | 50.9 | 102 | 83-123 |
| 100-41-4 | Ethylbenzene | 50 | 44.7 | 89 | 83-115 |
| 76-13-1 | Freon 113 | 50 | 63.0 | 126 | 65-132 |
| 591-78-6 | 2-Hexanone | 200 | 190 | 95 | 73-138 |
| 98-82-8 | Isopropylbenzene | 50 | 48.4 | 97 | 81-122 |
| 79-20-9 | Methyl Acetate | 50 | 45.1 | 90 | 63-142 |
| 108-87-2 | Methylcyclohexane | 50 | 48.2 | 96 | 73-126 |
| 1634-04-4 | Methyl Tert Butyl Ether | 50 | 52.9 | 106 | 75-126 |

* = Outside of Control Limits.

# Blank Spike Summary

**Job Number:** JD42660
**Account:** BBGTXH BBG Assessments, LLC
**Project:** One & Two Penn:11555 and 11595 North Meridian Street

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V1C8065-BS | 1C185351.D | 1 | 04/12/22 | PS | n/a | n/a | V1C8065 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD42660-1, JD42660-3, JD42660-4

| CAS No. | Compound | Spike ug/kg | BSP ug/kg | BSP % | Limits |
|---|---|---|---|---|---|
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | 200 | 192 | 96 | 71-138 |
| 75-09-2 | Methylene chloride | 50 | 47.0 | 94 | 73-122 |
| 100-42-5 | Styrene | 50 | 49.0 | 98 | 84-122 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 50 | 45.2 | 90 | 75-127 |
| 127-18-4 | Tetrachloroethene | 50 | 53.2 | 106 | 73-125 |
| 108-88-3 | Toluene | 50 | 46.2 | 92 | 82-118 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 50 | 49.5 | 99 | 68-132 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 50 | 48.2 | 96 | 72-133 |
| 71-55-6 | 1,1,1-Trichloroethane | 50 | 59.1 | 118 | 77-124 |
| 79-00-5 | 1,1,2-Trichloroethane | 50 | 51.0 | 102 | 83-122 |
| 79-01-6 | Trichloroethene | 50 | 59.8 | 120 | 80-122 |
| 75-69-4 | Trichlorofluoromethane | 50 | 57.8 | 116 | 69-132 |
| 75-01-4 | Vinyl chloride | 50 | 44.5 | 89 | 60-144 |
| | m,p-Xylene | 100 | 95.1 | 95 | 82-119 |
| 95-47-6 | o-Xylene | 50 | 50.1 | 100 | 84-120 |
| 1330-20-7 | Xylene (total) | 150 | 145 | 97 | 83-119 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 109% | 80-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 91% | 75-133% |
| 2037-26-5 | Toluene-D8 | 95% | 79-125% |
| 460-00-4 | 4-Bromofluorobenzene | 90% | 58-148% |

(a) High percent recovery and no associated positive reported in the QC batch.

* = Outside of Control Limits.

# Blank Spike Summary



**Job Number:** JD42660
**Account:** BBGTXH BBG Assessments, LLC
**Project:** One & Two Penn:11555 and 11595 North Meridian Street

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2V3545-BS | 2V86393.D | 1 | 04/15/22 | TS | n/a | n/a | V2V3545 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD42660-2, JD42660-5

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 67-64-1 | Acetone | 200 | 245 | 123 | 27-175 |
| 71-43-2 | Benzene | 50 | 48.0 | 96 | 80-115 |
| 74-97-5 | Bromochloromethane | 50 | 43.5 | 87 | 83-122 |
| 75-27-4 | Bromodichloromethane | 50 | 45.8 | 92 | 82-119 |
| 75-25-2 | Bromoform | 50 | 48.1 | 96 | 77-135 |
| 74-83-9 | Bromomethane | 50 | 41.1 | 82 | 40-162 |
| 78-93-3 | 2-Butanone (MEK) | 200 | 185 | 93 | 61-150 |
| 75-15-0 | Carbon disulfide | 50 | 57.9 | 116 | 64-130 |
| 56-23-5 | Carbon tetrachloride | 50 | 44.2 | 88 | 75-127 |
| 108-90-7 | Chlorobenzene | 50 | 47.2 | 94 | 80-115 |
| 75-00-3 | Chloroethane | 50 | 45.1 | 90 | 56-144 |
| 67-66-3 | Chloroform | 50 | 39.9 | 80 | 75-116 |
| 74-87-3 | Chloromethane | 50 | 39.5 | 79 | 41-153 |
| 110-82-7 | Cyclohexane | 50 | 45.1 | 90 | 66-129 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 50 | 45.9 | 92 | 69-134 |
| 124-48-1 | Dibromochloromethane | 50 | 47.5 | 95 | 81-123 |
| 106-93-4 | 1,2-Dibromoethane | 50 | 47.7 | 95 | 67-138 |
| 95-50-1 | 1,2-Dichlorobenzene | 50 | 46.4 | 93 | 81-117 |
| 541-73-1 | 1,3-Dichlorobenzene | 50 | 47.0 | 94 | 81-115 |
| 106-46-7 | 1,4-Dichlorobenzene | 50 | 46.6 | 93 | 80-114 |
| 75-71-8 | Dichlorodifluoromethane | 50 | 46.1 | 92 | 43-152 |
| 75-34-3 | 1,1-Dichloroethane | 50 | 42.3 | 85 | 75-125 |
| 107-06-2 | 1,2-Dichloroethane | 50 | 45.3 | 91 | 73-117 |
| 75-35-4 | 1,1-Dichloroethene | 50 | 52.2 | 104 | 70-124 |
| 156-59-2 | cis-1,2-Dichloroethene | 50 | 43.4 | 87 | 80-120 |
| 156-60-5 | trans-1,2-Dichloroethene | 50 | 46.4 | 93 | 77-121 |
| 78-87-5 | 1,2-Dichloropropane | 50 | 45.3 | 91 | 79-121 |
| 10061-01-5 | cis-1,3-Dichloropropene | 50 | 47.5 | 95 | 83-123 |
| 10061-02-6 | trans-1,3-Dichloropropene | 50 | 47.8 | 96 | 83-122 |
| 100-41-4 | Ethylbenzene | 50 | 47.3 | 95 | 78-116 |
| 76-13-1 | Freon 113 | 50 | 52.6 | 105 | 68-134 |
| 591-78-6 | 2-Hexanone | 200 | 173 | 87 | 66-136 |
| 98-82-8 | Isopropylbenzene | 50 | 47.7 | 95 | 78-121 |
| 79-20-9 | Methyl Acetate | 50 | 41.2 | 82 | 60-143 |
| 108-87-2 | Methylcyclohexane | 50 | 52.1 | 104 | 71-123 |
| 1634-04-4 | Methyl Tert Butyl Ether | 50 | 42.0 | 84 | 76-123 |

* = Outside of Control Limits.

# Blank Spike Summary



**Job Number:** JD42660
**Account:** BBGTXH BBG Assessments, LLC
**Project:** One & Two Penn:11555 and 11595 North Meridian Street

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2V3545-BS | 2V86393.D | 1 | 04/15/22 | TS | n/a | n/a | V2V3545 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD42660-2, JD42660-5

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | 200 | 176 | 88 | 73-134 |
| 75-09-2 | Methylene chloride | 50 | 40.5 | 81 | 73-123 |
| 100-42-5 | Styrene | 50 | 48.7 | 97 | 81-125 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 50 | 42.9 | 86 | 73-126 |
| 127-18-4 | Tetrachloroethene | 50 | 50.7 | 101 | 73-119 |
| 108-88-3 | Toluene | 50 | 47.5 | 95 | 79-116 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 50 | 45.7 | 91 | 63-137 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 50 | 47.2 | 94 | 68-135 |
| 71-55-6 | 1,1,1-Trichloroethane | 50 | 43.3 | 87 | 76-124 |
| 79-00-5 | 1,1,2-Trichloroethane | 50 | 46.3 | 93 | 83-117 |
| 79-01-6 | Trichloroethene | 50 | 50.2 | 100 | 80-118 |
| 75-69-4 | Trichlorofluoromethane | 50 | 48.9 | 98 | 67-134 |
| 75-01-4 | Vinyl chloride | 50 | 47.9 | 96 | 52-146 |
| | m,p-Xylene | 100 | 94.5 | 95 | 79-119 |
| 95-47-6 | o-Xylene | 50 | 47.3 | 95 | 81-119 |
| 1330-20-7 | Xylene (total) | 150 | 142 | 95 | 80-119 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 85% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 94% | 80-120% |
| 2037-26-5 | Toluene-D8 | 98% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 96% | 82-114% |

* = Outside of Control Limits.

# Matrix Spike Summary



**Job Number:** JD42660
**Account:** BBGTXH BBG Assessments, LLC
**Project:** One & Two Penn:11555 and 11595 North Meridian Street

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JD42899-1MS | 1C185360.D | 1 | 04/12/22 | PS | n/a | n/a | V1C8065 |
| JD42899-1 | 1C185354.D | 1 | 04/12/22 | PS | n/a | n/a | V1C8065 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD42660-1, JD42660-3, JD42660-4

| CAS No. | Compound | JD42899-1 ug/kg | Q | Spike ug/kg | MS ug/kg | MS % | Limits |
|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | | 202 | 181 | 89 | 10-170 |
| 71-43-2 | Benzene | ND | | 50.6 | 49.3 | 98 | 61-132 |
| 74-97-5 | Bromochloromethane | ND | | 50.6 | 63.8 | 126 | 68-126 |
| 75-27-4 | Bromodichloromethane | ND | | 50.6 | 57.2 | 113 | 65-129 |
| 75-25-2 | Bromoform | ND | | 50.6 | 57.4 | 114 | 52-136 |
| 74-83-9 | Bromomethane | ND | | 50.6 | 52.0 | 103 | 23-158 |
| 78-93-3 | 2-Butanone (MEK) | ND | | 202 | 196 | 97 | 45-142 |
| 75-15-0 | Carbon disulfide | ND | | 50.6 | 47.7 | 94 | 50-140 |
| 56-23-5 | Carbon tetrachloride | ND | | 50.6 | 66.6 | 132 | 54-139 |
| 108-90-7 | Chlorobenzene | ND | | 50.6 | 52.5 | 104 | 57-127 |
| 75-00-3 | Chloroethane | ND | | 50.6 | 48.7 | 96 | 30-157 |
| 67-66-3 | Chloroform | ND | | 50.6 | 53.8 | 106 | 59-127 |
| 74-87-3 | Chloromethane | ND | | 50.6 | 48.6 | 96 | 49-145 |
| 110-82-7 | Cyclohexane | ND | | 50.6 | 49.0 | 97 | 39-147 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | | 50.6 | 43.9 | 87 | 35-140 |
| 124-48-1 | Dibromochloromethane | ND | | 50.6 | 60.5 | 120 | 63-129 |
| 106-93-4 | 1,2-Dibromoethane | ND | | 50.6 | 53.1 | 105 | 45-141 |
| 95-50-1 | 1,2-Dichlorobenzene | ND | | 50.6 | 47.7 | 94 | 38-136 |
| 541-73-1 | 1,3-Dichlorobenzene | ND | | 50.6 | 48.0 | 95 | 37-135 |
| 106-46-7 | 1,4-Dichlorobenzene | ND | | 50.6 | 48.6 | 96 | 36-134 |
| 75-71-8 | Dichlorodifluoromethane | ND | | 50.6 | 50.4 | 100 | 33-152 |
| 75-34-3 | 1,1-Dichloroethane | ND | | 50.6 | 48.9 | 97 | 68-131 |
| 107-06-2 | 1,2-Dichloroethane | ND | | 50.6 | 50.3 | 99 | 64-119 |
| 75-35-4 | 1,1-Dichloroethene | ND | | 50.6 | 50.1 | 99 | 60-133 |
| 156-59-2 | cis-1,2-Dichloroethene | ND | | 50.6 | 51.3 | 101 | 58-133 |
| 156-60-5 | trans-1,2-Dichloroethene | ND | | 50.6 | 50.6 | 100 | 62-130 |
| 78-87-5 | 1,2-Dichloropropane | ND | | 50.6 | 48.2 | 95 | 70-127 |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | | 50.6 | 51.8 | 102 | 64-126 |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | | 50.6 | 49.6 | 98 | 61-127 |
| 100-41-4 | Ethylbenzene | ND | | 50.6 | 45.0 | 89 | 51-133 |
| 76-13-1 | Freon 113 | ND | | 50.6 | 64.8 | 128 | 46-138 |
| 591-78-6 | 2-Hexanone | ND | | 202 | 169 | 84 | 45-144 |
| 98-82-8 | Isopropylbenzene | ND | | 50.6 | 47.5 | 94 | 44-142 |
| 79-20-9 | Methyl Acetate | ND | | 50.6 | 46.5 | 92 | 14-192 |
| 108-87-2 | Methylcyclohexane | ND | | 50.6 | 42.9 | 85 | 27-149 |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | | 50.6 | 52.3 | 103 | 62-125 |

* = Outside of Control Limits.

# Matrix Spike Summary

**Job Number:** JD42660
**Account:** BBGTXH BBG Assessments, LLC
**Project:** One & Two Penn:11555 and 11595 North Meridian Street

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JD42899-1MS | 1C185360.D | 1 | 04/12/22 | PS | n/a | n/a | V1C8065 |
| JD42899-1 | 1C185354.D | 1 | 04/12/22 | PS | n/a | n/a | V1C8065 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD42660-1, JD42660-3, JD42660-4

| CAS No. | Compound | JD42899-1 ug/kg | Q | Spike ug/kg | MS ug/kg | MS % | Limits |
|---|---|---|---|---|---|---|---|
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | | 202 | 183 | 90 | 50-138 |
| 75-09-2 | Methylene chloride | ND | | 50.6 | 48.5 | 96 | 63-127 |
| 100-42-5 | Styrene | ND | | 50.6 | 48.7 | 96 | 48-143 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | | 50.6 | 39.9 | 79 | 44-135 |
| 127-18-4 | Tetrachloroethene | ND | | 50.6 | 53.2 | 105 | 38-146 |
| 108-88-3 | Toluene | ND | | 50.6 | 46.9 | 93 | 56-135 |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | | 50.6 | 40.1 | 79 | 10-153 |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | | 50.6 | 41.1 | 81 | 10-158 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | 50.6 | 62.8 | 124 | 61-134 |
| 79-00-5 | 1,1,2-Trichloroethane | ND | | 50.6 | 50.4 | 100 | 62-133 |
| 79-01-6 | Trichloroethene | ND | | 50.6 | 62.4 | 123 | 52-144 |
| 75-69-4 | Trichlorofluoromethane | ND | | 50.6 | 62.7 | 124 | 50-141 |
| 75-01-4 | Vinyl chloride | ND | | 50.6 | 49.7 | 98 | 48-151 |
| | m,p-Xylene | ND | | 101 | 94.8 | 94 | 51-135 |
| 95-47-6 | o-Xylene | ND | | 50.6 | 49.9 | 99 | 52-137 |
| 1330-20-7 | Xylene (total) | ND | | 152 | 145 | 96 | 50-138 |

| CAS No. | Surrogate Recoveries | MS | JD42899-1 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 112% | 106% | 80-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 93% | 97% | 75-133% |
| 2037-26-5 | Toluene-D8 | 96% | 95% | 79-125% |
| 460-00-4 | 4-Bromofluorobenzene | 87% | 90% | 58-148% |

* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JD42660
**Account:** BBGTXH BBG Assessments, LLC
**Project:** One & Two Penn:11555 and 11595 North Meridian Street

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JD42751-7MS | 2V86403.D | 1 | 04/15/22 | TS | n/a | n/a | V2V3545 |
| JD42751-7MSD | 2V86404.D | 1 | 04/15/22 | TS | n/a | n/a | V2V3545 |
| JD42751-7 | 2V86398.D | 1 | 04/15/22 | TS | n/a | n/a | V2V3545 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD42660-2, JD42660-5



| CAS No. | Compound | JD42751-7 ug/l | Q | Spike ug/l | MS ug/l | MS % | Spike ug/l | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | | 200 | 173 | 87 | 200 | 169 | 85 | 2 | 22-134/19 |
| 71-43-2 | Benzene | ND | | 50 | 51.3 | 103 | 50 | 51.4 | 103 | 0 | 49-137/12 |
| 74-97-5 | Bromochloromethane | ND | | 50 | 45.6 | 91 | 50 | 44.8 | 90 | 2 | 78-122/12 |
| 75-27-4 | Bromodichloromethane | ND | | 50 | 49.7 | 99 | 50 | 50.0 | 100 | 1 | 76-121/12 |
| 75-25-2 | Bromoform | ND | | 50 | 49.2 | 98 | 50 | 49.1 | 98 | 0 | 70-133/13 |
| 74-83-9 | Bromomethane | ND | | 50 | 38.3 | 77 | 50 | 41.2 | 82 | 7 | 27-164/38 |
| 78-93-3 | 2-Butanone (MEK) | ND | | 200 | 180 | 90 | 200 | 176 | 88 | 2 | 52-137/17 |
| 75-15-0 | Carbon disulfide | ND | | 50 | 64.9 | 130 | 50 | 63.3 | 127 | 2 | 54-136/16 |
| 56-23-5 | Carbon tetrachloride | ND | | 50 | 50.6 | 101 | 50 | 49.9 | 100 | 1 | 70-132/13 |
| 108-90-7 | Chlorobenzene | ND | | 50 | 49.4 | 99 | 50 | 49.3 | 99 | 0 | 68-123/12 |
| 75-00-3 | Chloroethane | ND | | 50 | 50.3 | 101 | 50 | 45.7 | 91 | 10 | 48-152/17 |
| 67-66-3 | Chloroform | ND | | 50 | 43.8 | 88 | 50 | 43.3 | 87 | 1 | 68-120/13 |
| 74-87-3 | Chloromethane | ND | | 50 | 42.7 | 85 | 50 | 39.6 | 79 | 8 | 35-156/18 |
| 110-82-7 | Cyclohexane | ND | | 50 | 49.7 | 99 | 50 | 46.7 | 93 | 6 | 53-146/14 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | | 50 | 47.8 | 96 | 50 | 46.4 | 93 | 3 | 63-134/16 |
| 124-48-1 | Dibromochloromethane | ND | | 50 | 49.0 | 98 | 50 | 49.2 | 98 | 0 | 75-122/12 |
| 106-93-4 | 1,2-Dibromoethane | ND | | 50 | 49.9 | 100 | 50 | 50.3 | 101 | 1 | 63-134/12 |
| 95-50-1 | 1,2-Dichlorobenzene | ND | | 50 | 48.4 | 97 | 50 | 47.5 | 95 | 2 | 74-119/12 |
| 541-73-1 | 1,3-Dichlorobenzene | ND | | 50 | 49.3 | 99 | 50 | 48.3 | 97 | 2 | 75-117/12 |
| 106-46-7 | 1,4-Dichlorobenzene | ND | | 50 | 48.3 | 97 | 50 | 47.8 | 96 | 1 | 72-117/12 |
| 75-71-8 | Dichlorodifluoromethane | ND | | 50 | 51.3 | 103 | 50 | 47.6 | 95 | 7 | 34-163/16 |
| 75-34-3 | 1,1-Dichloroethane | ND | | 50 | 47.1 | 94 | 50 | 46.1 | 92 | 2 | 68-129/13 |
| 107-06-2 | 1,2-Dichloroethane | ND | | 50 | 49.4 | 99 | 50 | 49.1 | 98 | 1 | 66-120/13 |
| 75-35-4 | 1,1-Dichloroethene | ND | | 50 | 60.0 | 120 | 50 | 58.5 | 117 | 3 | 59-133/15 |
| 156-59-2 | cis-1,2-Dichloroethene | ND | | 50 | 47.8 | 96 | 50 | 47.4 | 95 | 1 | 52-140/12 |
| 156-60-5 | trans-1,2-Dichloroethene | ND | | 50 | 51.4 | 103 | 50 | 50.6 | 101 | 2 | 70-125/13 |
| 78-87-5 | 1,2-Dichloropropane | ND | | 50 | 48.5 | 97 | 50 | 47.8 | 96 | 1 | 73-124/12 |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | | 50 | 50.2 | 100 | 50 | 50.4 | 101 | 0 | 75-125/13 |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | | 50 | 50.5 | 101 | 50 | 50.1 | 100 | 1 | 75-122/12 |
| 100-41-4 | Ethylbenzene | ND | | 50 | 50.2 | 100 | 50 | 50.1 | 100 | 0 | 37-144/12 |
| 76-13-1 | Freon 113 | ND | | 50 | 59.1 | 118 | 50 | 57.4 | 115 | 3 | 61-142/14 |
| 591-78-6 | 2-Hexanone | ND | | 200 | 182 | 91 | 200 | 182 | 91 | 0 | 56-132/16 |
| 98-82-8 | Isopropylbenzene | ND | | 50 | 50.8 | 102 | 50 | 50.7 | 101 | 0 | 71-126/13 |
| 79-20-9 | Methyl Acetate | ND | | 50 | 44.8 | 90 | 50 | 43.5 | 87 | 3 | 51-139/18 |
| 108-87-2 | Methylcyclohexane | ND | | 50 | 57.6 | 115 | 50 | 56.7 | 113 | 2 | 59-137/16 |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | | 50 | 45.5 | 91 | 50 | 44.6 | 89 | 2 | 66-124/12 |

* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JD42660
**Account:** BBGTXH BBG Assessments, LLC
**Project:** One & Two Penn:11555 and 11595 North Meridian Street

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JD42751-7MS | 2V86403.D | 1 | 04/15/22 | TS | n/a | n/a | V2V3545 |
| JD42751-7MSD | 2V86404.D | 1 | 04/15/22 | TS | n/a | n/a | V2V3545 |
| JD42751-7 | 2V86398.D | 1 | 04/15/22 | TS | n/a | n/a | V2V3545 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD42660-2, JD42660-5



| CAS No. | Compound | JD42751-7 ug/l | Q | Spike ug/l | MS ug/l | MS % | Spike ug/l | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | | 200 | 187 | 94 | 200 | 186 | 93 | 1 | 65-135/14 |
| 75-09-2 | Methylene chloride | ND | | 50 | 44.3 | 89 | 50 | 43.1 | 86 | 3 | 66-125/14 |
| 100-42-5 | Styrene | ND | | 50 | 51.0 | 102 | 50 | 51.0 | 102 | 0 | 71-133/12 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | | 50 | 44.5 | 89 | 50 | 44.6 | 89 | 0 | 68-127/14 |
| 127-18-4 | Tetrachloroethene | 4.8 | | 50 | 59.6 | 110 | 50 | 59.3 | 109 | 1 | 58-132/13 |
| 108-88-3 | Toluene | ND | | 50 | 50.6 | 101 | 50 | 50.9 | 102 | 1 | 46-139/12 |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | | 50 | 47.0 | 94 | 50 | 45.5 | 91 | 3 | 57-136/17 |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | | 50 | 48.5 | 97 | 50 | 47.1 | 94 | 3 | 61-137/16 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | 50 | 49.5 | 99 | 50 | 48.8 | 98 | 1 | 67-132/13 |
| 79-00-5 | 1,1,2-Trichloroethane | ND | | 50 | 47.9 | 96 | 50 | 48.2 | 96 | 1 | 75-120/12 |
| 79-01-6 | Trichloroethene | 2.2 | | 50 | 56.9 | 109 | 50 | 56.8 | 109 | 0 | 56-136/12 |
| 75-69-4 | Trichlorofluoromethane | ND | | 50 | 55.7 | 111 | 50 | 49.8 | 100 | 11 | 61-145/16 |
| 75-01-4 | Vinyl chloride | ND | | 50 | 52.7 | 105 | 50 | 49.7 | 99 | 6 | 41-156/16 |
| | m,p-Xylene | ND | | 100 | 99.6 | 100 | 100 | 99.6 | 100 | 0 | 32-151/12 |
| 95-47-6 | o-Xylene | ND | | 50 | 49.8 | 100 | 50 | 49.9 | 100 | 0 | 50-139/12 |
| 1330-20-7 | Xylene (total) | ND | | 150 | 149 | 99 | 150 | 150 | 100 | 1 | 38-147/12 |

| CAS No. | Surrogate Recoveries | MS | MSD | JD42751-7 | Limits |
|---|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 89% | 88% | 82% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 103% | 104% | 86% | 80-120% |
| 2037-26-5 | Toluene-D8 | 97% | 99% | 99% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 98% | 98% | 93% | 82-114% |

* = Outside of Control Limits.

# Duplicate Summary



**Job Number:** JD42660
**Account:** BBGTXH BBG Assessments, LLC
**Project:** One & Two Penn:11555 and 11595 North Meridian Street

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JD42899-2DUP | 1C185361.D | 1 | 04/12/22 | PS | n/a | n/a | V1C8065 |
| JD42899-2 | 1C185355.D | 1 | 04/12/22 | PS | n/a | n/a | V1C8065 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD42660-1, JD42660-3, JD42660-4

| CAS No. | Compound | JD42899-2 ug/kg | Q | DUP ug/kg | Q | RPD | Limits |
|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | | ND | | nc | 109 |
| 71-43-2 | Benzene | ND | | ND | | nc | 44 |
| 74-97-5 | Bromochloromethane | ND | | ND | | nc | 30 |
| 75-27-4 | Bromodichloromethane | ND | | ND | | nc | 22 |
| 75-25-2 | Bromoform | ND | | ND | | nc | 30 |
| 74-83-9 | Bromomethane | ND | | ND | | nc | 10 |
| 78-93-3 | 2-Butanone (MEK) | ND | | ND | | nc | 15 |
| 75-15-0 | Carbon disulfide | ND | | ND | | nc | 43 |
| 56-23-5 | Carbon tetrachloride | ND | | ND | | nc | 38 |
| 108-90-7 | Chlorobenzene | ND | | ND | | nc | 11 |
| 75-00-3 | Chloroethane | ND | | ND | | nc | 10 |
| 67-66-3 | Chloroform | ND | | ND | | nc | 14 |
| 74-87-3 | Chloromethane | ND | | ND | | nc | 30 |
| 110-82-7 | Cyclohexane | ND | | ND | | nc | 44 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | | ND | | nc | 30 |
| 124-48-1 | Dibromochloromethane | ND | | ND | | nc | 10 |
| 106-93-4 | 1,2-Dibromoethane | ND | | ND | | nc | 30 |
| 95-50-1 | 1,2-Dichlorobenzene | ND | | ND | | nc | 10 |
| 541-73-1 | 1,3-Dichlorobenzene | ND | | ND | | nc | 30 |
| 106-46-7 | 1,4-Dichlorobenzene | ND | | ND | | nc | 10 |
| 75-71-8 | Dichlorodifluoromethane | ND | | ND | | nc | 30 |
| 75-34-3 | 1,1-Dichloroethane | ND | | ND | | nc | 25 |
| 107-06-2 | 1,2-Dichloroethane | ND | | ND | | nc | 10 |
| 75-35-4 | 1,1-Dichloroethene | ND | | ND | | nc | 10 |
| 156-59-2 | cis-1,2-Dichloroethene | ND | | ND | | nc | 36 |
| 156-60-5 | trans-1,2-Dichloroethene | ND | | ND | | nc | 14 |
| 78-87-5 | 1,2-Dichloropropane | ND | | ND | | nc | 30 |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | | ND | | nc | 30 |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | | ND | | nc | 30 |
| 100-41-4 | Ethylbenzene | ND | | ND | | nc | 35 |
| 76-13-1 | Freon 113 | ND | | ND | | nc | 10 |
| 591-78-6 | 2-Hexanone | ND | | ND | | nc | 10 |
| 98-82-8 | Isopropylbenzene | ND | | ND | | nc | 28 |
| 79-20-9 | Methyl Acetate | ND | | ND | | nc | 37 |
| 108-87-2 | Methylcyclohexane | ND | | ND | | nc | 43 |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | | ND | | nc | 21 |

* = Outside of Control Limits.

# Duplicate Summary

**Job Number:** JD42660
**Account:** BBGTXH BBG Assessments, LLC
**Project:** One & Two Penn:11555 and 11595 North Meridian Street

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JD42899-2DUP | 1C185361.D | 1 | 04/12/22 | PS | n/a | n/a | V1C8065 |
| JD42899-2 | 1C185355.D | 1 | 04/12/22 | PS | n/a | n/a | V1C8065 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD42660-1, JD42660-3, JD42660-4

| CAS No. | Compound | JD42899-2 ug/kg | Q | DUP ug/kg | Q | RPD | Limits |
|---|---|---|---|---|---|---|---|
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | | ND | | nc | 10 |
| 75-09-2 | Methylene chloride | ND | | ND | | nc | 10 |
| 100-42-5 | Styrene | ND | | ND | | nc | 10 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | | ND | | nc | 10 |
| 127-18-4 | Tetrachloroethene | ND | | ND | | nc | 43 |
| 108-88-3 | Toluene | ND | | ND | | nc | 37 |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | | ND | | nc | 30 |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | | ND | | nc | 10 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | ND | | nc | 21 |
| 79-00-5 | 1,1,2-Trichloroethane | ND | | ND | | nc | 10 |
| 79-01-6 | Trichloroethene | ND | | ND | | nc | 44 |
| 75-69-4 | Trichlorofluoromethane | ND | | ND | | nc | 30 |
| 75-01-4 | Vinyl chloride | ND | | ND | | nc | 22 |
| | m,p-Xylene | ND | | ND | | nc | 44 |
| 95-47-6 | o-Xylene | ND | | ND | | nc | 45 |
| 1330-20-7 | Xylene (total) | ND | | ND | | nc | 60 |

| CAS No. | Surrogate Recoveries | DUP | JD42899-2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 109% | 107% | 80-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 99% | 97% | 75-133% |
| 2037-26-5 | Toluene-D8 | 95% | 95% | 79-125% |
| 460-00-4 | 4-Bromofluorobenzene | 90% | 91% | 58-148% |

* = Outside of Control Limits.

# Instrument Performance Check (BFB)



**Job Number:** JD42660
**Account:** BBGTXH BBG Assessments, LLC
**Project:** One & Two Penn:11555 and 11595 North Meridian Street

| | | | |
|---|---|---|---|
| **Sample:** | V1C7993-BFB | **Injection Date:** | 01/02/22 |
| **Lab File ID:** | 1C183567.D | **Injection Time:** | 17:30 |
| **Instrument ID:** | GCMS1C | | |

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 14.99 - 40.0% of mass 95 | 22112 | 18.0 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 52125 | 42.3 | | Pass |
| 95 | Base peak, 100% relative abundance | 123157 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 8273 | 6.72 | | Pass |
| 173 | Less than 2.0% of mass 174 | 0 | 0.00 | (0.00) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 117488 | 95.4 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 9046 | 7.35 | (7.70) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 112901 | 91.7 | (96.1) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 7688 | 6.24 | (6.81) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V1C7993-IC7993 | 1C183568.D | 01/02/22 | 18:05 | 00:35 | Initial cal 0.2 |
| V1C7993-IC7993 | 1C183569.D | 01/02/22 | 18:32 | 01:02 | Initial cal 0.5 |
| V1C7993-IC7993 | 1C183570.D | 01/02/22 | 18:59 | 01:29 | Initial cal 1 |
| V1C7993-IC7993 | 1C183571.D | 01/02/22 | 19:26 | 01:56 | Initial cal 2 |
| V1C7993-IC7993 | 1C183572.D | 01/02/22 | 19:53 | 02:23 | Initial cal 4 |
| V1C7993-IC7993 | 1C183573.D | 01/02/22 | 20:19 | 02:49 | Initial cal 8 |
| V1C7993-IC7993 | 1C183574.D | 01/02/22 | 20:46 | 03:16 | Initial cal 20 |
| V1C7993-ICC7993 | 1C183575.D | 01/02/22 | 21:13 | 03:43 | Initial cal 50 |
| V1C7993-IC7993 | 1C183576.D | 01/02/22 | 21:39 | 04:09 | Initial cal 100 |
| V1C7993-IC7993 | 1C183577.D | 01/02/22 | 22:06 | 04:36 | Initial cal 200 |
| V1C7993-ICV7993 | 1C183580.D | 01/02/22 | 23:27 | 05:57 | Initial cal verification 50 |
| V1C7993-ICV7993 | 1C183581.D | 01/02/22 | 23:54 | 06:24 | Initial cal verification 50 |

# Instrument Performance Check (BFB)



**Job Number:** JD42660
**Account:** BBGTXH BBG Assessments, LLC
**Project:** One & Two Penn:11555 and 11595 North Meridian Street

| | | | |
|---|---|---|---|
| **Sample:** | V1C8065-BFB | **Injection Date:** | 04/12/22 |
| **Lab File ID:** | 1C185349.D | **Injection Time:** | 14:25 |
| **Instrument ID:** | GCMS1C | | |

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 14.99 - 40.0% of mass 95 | 19720 | 16.1 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 49499 | 40.4 | | Pass |
| 95 | Base peak, 100% relative abundance | 122533 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 7989 | 6.52 | | Pass |
| 173 | Less than 2.0% of mass 174 | 0 | 0.00 | (0.00) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 126304 | 103.1 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 9506 | 7.76 | (7.53) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 123608 | 100.9 | (97.9) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 8418 | 6.87 | (6.81) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V1C8065-CC7993 | 1C185349.D | 04/12/22 | 14:25 | 00:00 | Continuing cal 50 |
| V1C8065-BS | 1C185351.D | 04/12/22 | 15:31 | 01:06 | Blank Spike |
| V1C8065-MB | 1C185353.D | 04/12/22 | 16:36 | 02:11 | Method Blank |
| JD42899-1 | 1C185354.D | 04/12/22 | 17:07 | 02:42 | (used for QC only; not part of job JD42660) |
| JD42899-2 | 1C185355.D | 04/12/22 | 17:34 | 03:09 | (used for QC only; not part of job JD42660) |
| ZZZZZZ | 1C185356.D | 04/12/22 | 18:01 | 03:36 | (unrelated sample) |
| ZZZZZZ | 1C185357.D | 04/12/22 | 18:28 | 04:03 | (unrelated sample) |
| ZZZZZZ | 1C185358.D | 04/12/22 | 18:55 | 04:30 | (unrelated sample) |
| ZZZZZZ | 1C185359.D | 04/12/22 | 19:23 | 04:58 | (unrelated sample) |
| JD42899-1MS | 1C185360.D | 04/12/22 | 19:50 | 05:25 | Matrix Spike |
| JD42899-2DUP | 1C185361.D | 04/12/22 | 20:17 | 05:52 | Duplicate |
| ZZZZZZ | 1C185362.D | 04/12/22 | 20:45 | 06:20 | (unrelated sample) |
| ZZZZZZ | 1C185363.D | 04/12/22 | 21:12 | 06:47 | (unrelated sample) |
| ZZZZZZ | 1C185364.D | 04/12/22 | 21:39 | 07:14 | (unrelated sample) |
| ZZZZZZ | 1C185365.D | 04/12/22 | 22:06 | 07:41 | (unrelated sample) |
| ZZZZZZ | 1C185366.D | 04/12/22 | 22:33 | 08:08 | (unrelated sample) |
| ZZZZZZ | 1C185367.D | 04/12/22 | 23:00 | 08:35 | (unrelated sample) |
| ZZZZZZ | 1C185368.D | 04/12/22 | 23:27 | 09:02 | (unrelated sample) |
| JD42660-1 | 1C185369.D | 04/12/22 | 23:54 | 09:29 | B-1 (8-9) |
| JD42660-3 | 1C185370.D | 04/13/22 | 00:20 | 09:55 | B-2 (8-9) |
| JD42660-4 | 1C185371.D | 04/13/22 | 00:47 | 10:22 | B-3 (8-9) |
| ZZZZZZ | 1C185372.D | 04/13/22 | 01:13 | 10:48 | (unrelated sample) |
| ZZZZZZ | 1C185373.D | 04/13/22 | 01:40 | 11:15 | (unrelated sample) |

# Instrument Performance Check (BFB)



**Job Number:** JD42660
**Account:** BBGTXH BBG Assessments, LLC
**Project:** One & Two Penn:11555 and 11595 North Meridian Street

| | | | |
|---|---|---|---|
| **Sample:** | V2V3532-BFB | **Injection Date:** | 03/31/22 |
| **Lab File ID:** | 2V85957.D | **Injection Time:** | 17:33 |
| **Instrument ID:** | GCMS2V | | |

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 12863 | 15.6 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 40051 | 48.6 | | Pass |
| 95 | Base peak, 100% relative abundance | 82448 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 5424 | 6.58 | | Pass |
| 173 | Less than 2.0% of mass 174 | 529 | 0.64 | (0.68) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 78187 | 94.8 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 5797 | 7.03 | (7.41) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 76864 | 93.2 | (98.3) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 5123 | 6.21 | (6.67) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V2V3532-IC3532 | 2V85959.D | 03/31/22 | 18:14 | 00:41 | Initial cal 0.2 |
| V2V3532-IC3532 | 2V85961.D | 03/31/22 | 18:55 | 01:22 | Initial cal 0.5 |
| V2V3532-IC3532 | 2V85963.D | 03/31/22 | 19:35 | 02:02 | Initial cal 1 |
| V2V3532-IC3532 | 2V85965.D | 03/31/22 | 20:16 | 02:43 | Initial cal 2 |
| V2V3532-IC3532 | 2V85967.D | 03/31/22 | 20:57 | 03:24 | Initial cal 4 |
| V2V3532-IC3532 | 2V85969.D | 03/31/22 | 21:38 | 04:05 | Initial cal 8 |
| V2V3532-IC3532 | 2V85971.D | 03/31/22 | 22:19 | 04:46 | Initial cal 20 |
| V2V3532-ICC3532 | 2V85973.D | 03/31/22 | 22:59 | 05:26 | Initial cal 50 |
| V2V3532-IC3532 | 2V85975.D | 03/31/22 | 23:40 | 06:07 | Initial cal 100 |
| V2V3532-IC3532 | 2V85977.D | 04/01/22 | 00:21 | 06:48 | Initial cal 200 |
| V2V3532-ICV3532 | 2V85983.D | 04/01/22 | 02:23 | 08:50 | Initial cal verification 50 |
| V2V3532-ICV3532 | 2V85985.D | 04/01/22 | 03:04 | 09:31 | Initial cal verification 50 |

# Instrument Performance Check (BFB)



**Job Number:** JD42660
**Account:** BBGTXH BBG Assessments, LLC
**Project:** One & Two Penn:11555 and 11595 North Meridian Street

| | | | |
|---|---|---|---|
| **Sample:** | V2V3532-BFB2 | **Injection Date:** | 04/04/22 |
| **Lab File ID:** | 2V85991.D | **Injection Time:** | 16:08 |
| **Instrument ID:** | GCMS2V | | |

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 12904 | 15.3 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 40659 | 48.2 | | Pass |
| 95 | Base peak, 100% relative abundance | 84328 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 5723 | 6.79 | | Pass |
| 173 | Less than 2.0% of mass 174 | 555 | 0.66 | (0.66) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 83781 | 99.4 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 5986 | 7.10 | (7.14) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 80155 | 95.1 | (95.7) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 5274 | 6.25 | (6.58) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V2V3532-ICV3532 | 2V85993.D | 04/04/22 | 16:48 | 00:40 | Initial cal verification 50 |

# Instrument Performance Check (BFB)



**Job Number:** JD42660
**Account:** BBGTXH BBG Assessments, LLC
**Project:** One & Two Penn:11555 and 11595 North Meridian Street

| | | | |
|---|---|---|---|
| **Sample:** | V2V3545-BFB | **Injection Date:** | 04/15/22 |
| **Lab File ID:** | 2V86391.D | **Injection Time:** | 08:53 |
| **Instrument ID:** | GCMS2V | | |

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 13360 | 16.2 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 40264 | 49.0 | | Pass |
| 95 | Base peak, 100% relative abundance | 82216 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 5448 | 6.63 | | Pass |
| 173 | Less than 2.0% of mass 174 | 525 | 0.64 | (0.63) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 83565 | 101.6 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 6156 | 7.49 | (7.37) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 81603 | 99.3 | (97.7) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 5332 | 6.49 | (6.53) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V2V3545-CC3532 | 2V86391.D | 04/15/22 | 08:53 | 00:00 | Continuing cal 20 |
| V2V3545-BS | 2V86393.D | 04/15/22 | 09:51 | 00:58 | Blank Spike |
| V2V3545-MB | 2V86395.D | 04/15/22 | 10:38 | 01:45 | Method Blank |
| JD42660-2 | 2V86396.D | 04/15/22 | 11:01 | 02:08 | B-1-GW |
| JD42660-5 | 2V86397.D | 04/15/22 | 11:24 | 02:31 | B-3-GW |
| JD42751-7 | 2V86398.D | 04/15/22 | 11:47 | 02:54 | (used for QC only; not part of job JD42660) |
| ZZZZZZ | 2V86399.D | 04/15/22 | 12:10 | 03:17 | (unrelated sample) |
| ZZZZZZ | 2V86400.D | 04/15/22 | 12:33 | 03:40 | (unrelated sample) |
| ZZZZZZ | 2V86401.D | 04/15/22 | 12:56 | 04:03 | (unrelated sample) |
| ZZZZZZ | 2V86402.D | 04/15/22 | 13:19 | 04:26 | (unrelated sample) |
| JD42751-7MS | 2V86403.D | 04/15/22 | 13:42 | 04:49 | Matrix Spike |
| JD42751-7MSD | 2V86404.D | 04/15/22 | 14:05 | 05:12 | Matrix Spike Duplicate |
| ZZZZZZ | 2V86405.D | 04/15/22 | 14:28 | 05:35 | (unrelated sample) |
| ZZZZZZ | 2V86406.D | 04/15/22 | 14:52 | 05:59 | (unrelated sample) |
| ZZZZZZ | 2V86407.D | 04/15/22 | 15:15 | 06:22 | (unrelated sample) |
| ZZZZZZ | 2V86408.D | 04/15/22 | 15:38 | 06:45 | (unrelated sample) |
| ZZZZZZ | 2V86409.D | 04/15/22 | 16:01 | 07:08 | (unrelated sample) |
| ZZZZZZ | 2V86410.D | 04/15/22 | 16:25 | 07:32 | (unrelated sample) |
| ZZZZZZ | 2V86411.D | 04/15/22 | 16:48 | 07:55 | (unrelated sample) |
| ZZZZZZ | 2V86412.D | 04/15/22 | 17:11 | 08:18 | (unrelated sample) |
| ZZZZZZ | 2V86413.D | 04/15/22 | 17:34 | 08:41 | (unrelated sample) |
| ZZZZZZ | 2V86414.D | 04/15/22 | 17:57 | 09:04 | (unrelated sample) |
| ZZZZZZ | 2V86415.D | 04/15/22 | 18:20 | 09:27 | (unrelated sample) |
| ZZZZZZ | 2V86416.D | 04/15/22 | 18:43 | 09:50 | (unrelated sample) |

# Instrument Performance Check (BFB)



**Job Number:** JD42660
**Account:** BBGTXH BBG Assessments, LLC
**Project:** One & Two Penn:11555 and 11595 North Meridian Street

| | | | |
|---|---|---|---|
| **Sample:** | V2V3545-BFB | **Injection Date:** | 04/15/22 |
| **Lab File ID:** | 2V86391.D | **Injection Time:** | 08:53 |
| **Instrument ID:** | GCMS2V | | |

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| ZZZZZZ | 2V86417.D | 04/15/22 | 19:06 | 10:13 | (unrelated sample) |
| ZZZZZZ | 2V86418.D | 04/15/22 | 19:30 | 10:37 | (unrelated sample) |
| ZZZZZZ | 2V86419.D | 04/15/22 | 19:53 | 11:00 | (unrelated sample) |

# Surrogate Recovery Summary



**Job Number:** JD42660
**Account:** BBGTXH BBG Assessments, LLC
**Project:** One & Two Penn:11555 and 11595 North Meridian Street

**Method:** SW846 8260D **Matrix:** AQ

**Samples and QC shown here apply to the above method**

| Lab Sample ID | Lab File ID | S1 | S2 | S3 | S4 |
|---|---|---|---|---|---|
| JD42660-2 | 2V86396.D | 83 | 89 | 99 | 93 |
| JD42660-5 | 2V86397.D | 84 | 91 | 98 | 93 |
| JD42751-7MS | 2V86403.D | 89 | 103 | 97 | 98 |
| JD42751-7MSD | 2V86404.D | 88 | 104 | 99 | 98 |
| V2V3545-BS | 2V86393.D | 85 | 94 | 98 | 96 |
| V2V3545-MB | 2V86395.D | 83 | 89 | 99 | 94 |

| Surrogate Compounds | Recovery Limits |
|---|---|
| **S1** = Dibromofluoromethane | 80-120% |
| **S2** = 1,2-Dichloroethane-D4 | 80-120% |
| **S3** = Toluene-D8 | 80-120% |
| **S4** = 4-Bromofluorobenzene | 82-114% |

# Surrogate Recovery Summary



**Job Number:** JD42660
**Account:** BBGTXH BBG Assessments, LLC
**Project:** One & Two Penn:11555 and 11595 North Meridian Street

**Method:** SW846 8260D **Matrix:** SO

**Samples and QC shown here apply to the above method**

| Lab Sample ID | Lab File ID | S1 | S2 | S3 | S4 |
|---|---|---|---|---|---|
| JD42660-1 | 1C185369.D | 110 | 100 | 95 | 90 |
| JD42660-3 | 1C185370.D | 110 | 98 | 95 | 90 |
| JD42660-4 | 1C185371.D | 110 | 100 | 95 | 90 |
| JD42899-1MS | 1C185360.D | 112 | 93 | 96 | 87 |
| JD42899-2DUP | 1C185361.D | 109 | 99 | 95 | 90 |
| V1C8065-BS | 1C185351.D | 109 | 91 | 95 | 90 |
| V1C8065-MB | 1C185353.D | 102 | 89 | 96 | 90 |

| Surrogate Compounds | Recovery Limits |
|---|---|
| **S1** = Dibromofluoromethane | 80-124% |
| **S2** = 1,2-Dichloroethane-D4 | 75-133% |
| **S3** = Toluene-D8 | 79-125% |
| **S4** = 4-Bromofluorobenzene | 58-148% |

## MS Semi-volatiles

### QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (DFTPP)
- Surrogate Recovery Summaries

# Method Blank Summary



**Job Number:** JD42660
**Account:** BBGTXH BBG Assessments, LLC
**Project:** One & Two Penn:11555 and 11595 North Meridian Street

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| OP39053-MB1 | Z156259.D | 1 | 04/12/22 | JY | 04/11/22 | OP39053 | EZ7771 |

**The QC reported here applies to the following samples:** **Method:** SW846 8270E

JD42660-1, JD42660-3, JD42660-4



| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | ND | 33 | 11 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 33 | 17 | ug/kg | |
| 120-12-7 | Anthracene | ND | 33 | 20 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 33 | 9.4 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 33 | 15 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 33 | 15 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 33 | 17 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 33 | 16 | ug/kg | |
| 218-01-9 | Chrysene | ND | 33 | 10 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 33 | 15 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 33 | 15 | ug/kg | |
| 86-73-7 | Fluorene | ND | 33 | 15 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 33 | 16 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 33 | 9.4 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 33 | 11 | ug/kg | |
| 129-00-0 | Pyrene | ND | 33 | 11 | ug/kg | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 61% | 10-109% |
| 4165-62-2 | Phenol-d5 | 61% | 10-105% |
| 118-79-6 | 2,4,6-Tribromophenol | 62% | 10-135% |
| 4165-60-0 | Nitrobenzene-d5 | 63% | 10-119% |
| 321-60-8 | 2-Fluorobiphenyl | 60% | 18-112% |
| 1718-51-0 | Terphenyl-d14 | 73% | 18-125% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---|---|---|---|---|---|
| | system artifact | 3.35 | 230 | ug/kg | J |
| | system artifact/aldol-condensation | 3.40 | 590 | ug/kg | J |
| | alkane | 12.83 | 320 | ug/kg | J |
| | alkane | 13.33 | 290 | ug/kg | J |
| | alkane | 13.80 | 240 | ug/kg | J |
| | Total TIC, Semi-Volatile | | 850 | ug/kg | J |

# Method Blank Summary



**Job Number:** JD42660
**Account:** BBGTXH BBG Assessments, LLC
**Project:** One & Two Penn:11555 and 11595 North Meridian Street

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| OP39042-MB1 | 5P82452.D | 1 | 04/13/22 | CS | 04/12/22 | OP39042 | E5P3915 |

**The QC reported here applies to the following samples:** **Method:** SW846 8270E

JD42660-2, JD42660-5



| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | ND | 1.0 | 0.61 | ug/l | |
| 208-96-8 | Acenaphthylene | ND | 1.0 | 0.42 | ug/l | |
| 120-12-7 | Anthracene | ND | 1.0 | 0.56 | ug/l | |
| 56-55-3 | Benzo(a)anthracene | ND | 1.0 | 0.51 | ug/l | |
| 50-32-8 | Benzo(a)pyrene | ND | 1.0 | 0.63 | ug/l | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 1.0 | 0.57 | ug/l | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 1.0 | 0.64 | ug/l | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 1.0 | 0.48 | ug/l | |
| 218-01-9 | Chrysene | ND | 1.0 | 0.52 | ug/l | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 1.0 | 0.50 | ug/l | |
| 206-44-0 | Fluoranthene | ND | 1.0 | 0.58 | ug/l | |
| 86-73-7 | Fluorene | ND | 1.0 | 0.59 | ug/l | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 1.0 | 0.64 | ug/l | |
| 91-20-3 | Naphthalene | ND | 1.0 | 0.44 | ug/l | |
| 85-01-8 | Phenanthrene | ND | 1.0 | 0.48 | ug/l | |
| 129-00-0 | Pyrene | ND | 1.0 | 0.50 | ug/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 73% | 28-126% |
| 321-60-8 | 2-Fluorobiphenyl | 73% | 26-114% |
| 1718-51-0 | Terphenyl-d14 | 76% | 16-122% |

# Blank Spike Summary



**Job Number:** JD42660
**Account:** BBGTXH BBG Assessments, LLC
**Project:** One & Two Penn:11555 and 11595 North Meridian Street

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| OP39053-BS1 | Z156260.D | 1 | 04/12/22 | JY | 04/11/22 | OP39053 | EZ7771 |

**The QC reported here applies to the following samples:** **Method:** SW846 8270E

JD42660-1, JD42660-3, JD42660-4

| CAS No. | Compound | Spike ug/kg | BSP ug/kg | BSP % | Limits |
|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | 1670 | 948 | 57 | 15-150 |
| 208-96-8 | Acenaphthylene | 1670 | 700 | 42 | 14-146 |
| 120-12-7 | Anthracene | 1670 | 974 | 58 | 17-157 |
| 56-55-3 | Benzo(a)anthracene | 1670 | 898 | 54 | 16-156 |
| 50-32-8 | Benzo(a)pyrene | 1670 | 953 | 57 | 17-160 |
| 205-99-2 | Benzo(b)fluoranthene | 1670 | 993 | 60 | 17-159 |
| 191-24-2 | Benzo(g,h,i)perylene | 1670 | 971 | 58 | 12-158 |
| 207-08-9 | Benzo(k)fluoranthene | 1670 | 933 | 56 | 19-150 |
| 218-01-9 | Chrysene | 1670 | 934 | 56 | 18-152 |
| 53-70-3 | Dibenzo(a,h)anthracene | 1670 | 1060 | 64 | 15-153 |
| 206-44-0 | Fluoranthene | 1670 | 919 | 55 | 20-152 |
| 86-73-7 | Fluorene | 1670 | 1030 | 62 | 17-149 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1670 | 1080 | 65 | 10-160 |
| 91-20-3 | Naphthalene | 1670 | 949 | 57 | 15-149 |
| 85-01-8 | Phenanthrene | 1670 | 958 | 57 | 16-155 |
| 129-00-0 | Pyrene | 1670 | 1000 | 60 | 20-156 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 63% | 10-109% |
| 4165-62-2 | Phenol-d5 | 63% | 10-105% |
| 118-79-6 | 2,4,6-Tribromophenol | 64% | 10-135% |
| 4165-60-0 | Nitrobenzene-d5 | 63% | 10-119% |
| 321-60-8 | 2-Fluorobiphenyl | 60% | 18-112% |
| 1718-51-0 | Terphenyl-d14 | 66% | 18-125% |

* = Outside of Control Limits.

# Blank Spike/Blank Spike Duplicate Summary



**Job Number:** JD42660
**Account:** BBGTXH BBG Assessments, LLC
**Project:** One & Two Penn:11555 and 11595 North Meridian Street

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| OP39042-BS1 [a] | 5P82453.D | 1 | 04/13/22 | CS | 04/12/22 | OP39042 | E5P3915 |
| OP39042-BSD | 5P82454.D | 1 | 04/13/22 | CS | 04/12/22 | OP39042 | E5P3915 |

**The QC reported here applies to the following samples:** **Method:** SW846 8270E

JD42660-2, JD42660-5

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | BSD ug/l | BSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | 40 | 11.7 | 29* [b] | 23.6 | 59 | 67* [c] | 36-112/27 |
| 208-96-8 | Acenaphthylene | 40 | 8.6 | 22* [b] | 18.2 | 46 | 72* [c] | 40-111/27 |
| 120-12-7 | Anthracene | 40 | 14.2 | 36* [b] | 25.9 | 65 | 58* [c] | 50-110/27 |
| 56-55-3 | Benzo(a)anthracene | 40 | 14.4 | 36* [b] | 29.1 | 73 | 68* [c] | 52-111/27 |
| 50-32-8 | Benzo(a)pyrene | 40 | 15.5 | 39* [b] | 29.0 | 73 | 61* [c] | 46-115/29 |
| 205-99-2 | Benzo(b)fluoranthene | 40 | 16.1 | 40* [b] | 31.0 | 78 | 63* [c] | 41-127/28 |
| 191-24-2 | Benzo(g,h,i)perylene | 40 | 13.8 | 35* [b] | 27.1 | 68 | 65* [c] | 48-123/32 |
| 207-08-9 | Benzo(k)fluoranthene | 40 | 15.5 | 39* [b] | 27.3 | 68 | 55* [c] | 45-119/27 |
| 218-01-9 | Chrysene | 40 | 14.9 | 37* [b] | 29.3 | 73 | 65* [c] | 48-113/28 |
| 53-70-3 | Dibenzo(a,h)anthracene | 40 | 14.7 | 37* [b] | 27.8 | 70 | 62* [c] | 43-124/31 |
| 206-44-0 | Fluoranthene | 40 | 14.6 | 37* [b] | 29.4 | 74 | 67* [c] | 54-117/30 |
| 86-73-7 | Fluorene | 40 | 12.3 | 31* [b] | 28.6 | 72 | 80* [c] | 43-118/27 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 40 | 14.4 | 36* [b] | 27.9 | 70 | 64* [c] | 43-122/33 |
| 91-20-3 | Naphthalene | 40 | 8.8 | 22* [b] | 17.6 | 44 | 67* [c] | 36-110/31 |
| 85-01-8 | Phenanthrene | 40 | 14.7 | 37* [b] | 28.5 | 71 | 64* [c] | 48-111/27 |
| 129-00-0 | Pyrene | 40 | 15.7 | 39* [b] | 32.3 | 81 | 69* [c] | 51-113/28 |

| CAS No. | Surrogate Recoveries | BSP | BSD | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 25%* [b] | 44% | 28-126% |
| 321-60-8 | 2-Fluorobiphenyl | 25%* [b] | 55% | 26-114% |
| 1718-51-0 | Terphenyl-d14 | 34% | 69% | 16-122% |

(a) Recovery indicates possible low bias. Since balnk spike duplicate recoveries are within control limits, data are qualified and reported.
(b) Outside of in house control limits.
(c) Analytical precision exceeds in-house control limits.

* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JD42660
**Account:** BBGTXH BBG Assessments, LLC
**Project:** One & Two Penn:11555 and 11595 North Meridian Street

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| OP39053-MS | Z156277.D | 1 | 04/12/22 | JY | 04/11/22 | OP39053 | EZ7771 |
| OP39053-MSD | Z156278.D | 1 | 04/12/22 | JY | 04/11/22 | OP39053 | EZ7771 |
| JD42638-1 | Z156276.D | 1 | 04/12/22 | JY | 04/11/22 | OP39053 | EZ7771 |

**The QC reported here applies to the following samples:** **Method:** SW846 8270E

JD42660-1, JD42660-3, JD42660-4



| CAS No. | Compound | JD42638-1 ug/kg | Q | Spike ug/kg | MS ug/kg | MS % | Spike ug/kg | MSD ug/kg | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | ND | | 1680 | 859 | 51 | 1760 | 881 | 50 | 3 | 10-166/50 |
| 208-96-8 | Acenaphthylene | ND | | 1680 | 619 | 37 | 1760 | 646 | 37 | 4 | 10-174/50 |
| 120-12-7 | Anthracene | ND | | 1680 | 879 | 52 | 1760 | 890 | 51 | 1 | 10-174/50 |
| 56-55-3 | Benzo(a)anthracene | ND | | 1680 | 830 | 49 | 1760 | 868 | 49 | 4 | 10-175/50 |
| 50-32-8 | Benzo(a)pyrene | ND | | 1680 | 861 | 51 | 1760 | 884 | 50 | 3 | 10-175/50 |
| 205-99-2 | Benzo(b)fluoranthene | ND | | 1680 | 834 | 50 | 1760 | 870 | 50 | 4 | 10-172/50 |
| 191-24-2 | Benzo(g,h,i)perylene | ND | | 1680 | 887 | 53 | 1760 | 925 | 53 | 4 | 10-178/50 |
| 207-08-9 | Benzo(k)fluoranthene | ND | | 1680 | 830 | 49 | 1760 | 837 | 48 | 1 | 10-158/50 |
| 218-01-9 | Chrysene | ND | | 1680 | 851 | 51 | 1760 | 864 | 49 | 2 | 10-173/50 |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | | 1680 | 979 | 58 | 1760 | 1000 | 57 | 2 | 10-167/50 |
| 206-44-0 | Fluoranthene | ND | | 1680 | 824 | 49 | 1760 | 835 | 48 | 1 | 10-195/50 |
| 86-73-7 | Fluorene | ND | | 1680 | 915 | 54 | 1760 | 940 | 53 | 3 | 10-166/50 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | | 1680 | 1010 | 60 | 1760 | 1030 | 59 | 2 | 10-186/50 |
| 91-20-3 | Naphthalene | ND | | 1680 | 828 | 49 | 1760 | 901 | 51 | 8 | 10-174/50 |
| 85-01-8 | Phenanthrene | ND | | 1680 | 874 | 52 | 1760 | 890 | 51 | 2 | 10-192/50 |
| 129-00-0 | Pyrene | ND | | 1680 | 833 | 50 | 1760 | 868 | 49 | 4 | 10-197/50 |

| CAS No. | Surrogate Recoveries | MS | MSD | JD42638-1 | Limits |
|---|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 54% | 56% | | 10-109% |
| 4165-62-2 | Phenol-d5 | 58% | 57% | | 10-105% |
| 118-79-6 | 2,4,6-Tribromophenol | 55% | 54% | | 10-135% |
| 4165-60-0 | Nitrobenzene-d5 | 56% | 58% | 71% | 10-119% |
| 321-60-8 | 2-Fluorobiphenyl | 56% | 56% | 76% | 18-112% |
| 1718-51-0 | Terphenyl-d14 | 56% | 56% | 86% | 18-125% |

* = Outside of Control Limits.

# Instrument Performance Check (DFTPP)



**Job Number:** JD42660
**Account:** BBGTXH BBG Assessments, LLC
**Project:** One & Two Penn:11555 and 11595 North Meridian Street

| | | | |
|---|---|---|---|
| **Sample:** | E5P3865-DFTPP | **Injection Date:** | 02/17/22 |
| **Lab File ID:** | 5P81576.D | **Injection Time:** | 23:28 |
| **Instrument ID:** | GCMS5P | | |

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 51 | 30.0 - 60.0% of mass 198 | 18974 | 30.7 | | Pass |
| 68 | Less than 2.0% of mass 69 | 0 | 0.00 | (0.00) [a] | Pass |
| 69 | Mass 69 relative abundance | 30872 | 50.0 | | Pass |
| 70 | Less than 2.0% of mass 69 | 76 | 0.12 | (0.25) [a] | Pass |
| 127 | 40.0 - 60.0% of mass 198 | 35113 | 56.9 | | Pass |
| 197 | Less than 1.0% of mass 198 | 0 | 0.00 | | Pass |
| 198 | Base peak, 100% relative abundance | 61754 | 100.0 | | Pass |
| 199 | 5.0 - 9.0% of mass 198 | 4000 | 6.48 | | Pass |
| 275 | 10.0 - 30.0% of mass 198 | 12232 | 19.8 | | Pass |
| 365 | 1.0 - 100.0% of mass 198 | 1611 | 2.61 | | Pass |
| 441 | Present, but less than mass 443 | 6313 | 10.2 | (82.6) [b] | Pass |
| 442 | 40.0 - 100.0% of mass 198 | 39213 | 63.5 | | Pass |
| 443 | 17.0 - 23.0% of mass 442 | 7643 | 12.4 | (19.5) [c] | Pass |

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| E5P3865-IC3865 | 5P81577.D | 02/17/22 | 23:45 | 00:17 | Initial cal 20 |
| E5P3865-IC3865 | 5P81578.D | 02/18/22 | 00:15 | 00:47 | Initial cal 16 |
| E5P3865-ICC3865 | 5P81579.D | 02/18/22 | 00:45 | 01:17 | Initial cal 10 |
| E5P3865-IC3865 | 5P81580.D | 02/18/22 | 01:15 | 01:47 | Initial cal 5 |
| E5P3865-IC3865 | 5P81581.D | 02/18/22 | 01:45 | 02:17 | Initial cal 2 |
| E5P3865-IC3865 | 5P81583.D | 02/18/22 | 03:54 | 04:26 | Initial cal 0.4 |
| E5P3865-IC3865 | 5P81582C.D | 02/18/22 | 04:25 | 04:57 | Initial cal 1 |
| E5P3865-IC3865 | 5P81584.D | 02/18/22 | 04:56 | 05:28 | Initial cal 0.2 |
| E5P3865-ICV3865 | 5P81585.D | 02/18/22 | 05:27 | 05:59 | Initial cal verification 10 |

# Instrument Performance Check (DFTPP)



**Job Number:** JD42660
**Account:** BBGTXH BBG Assessments, LLC
**Project:** One & Two Penn:11555 and 11595 North Meridian Street

| | | | |
|---|---|---|---|
| **Sample:** | E5P3881-DFTPP | **Injection Date:** | 03/09/22 |
| **Lab File ID:** | 5P81748.D | **Injection Time:** | 12:05 |
| **Instrument ID:** | GCMS5P | | |

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 51 | 30.0 - 60.0% of mass 198 | 21377 | 32.1 | | Pass |
| 68 | Less than 2.0% of mass 69 | 183 | 0.27 | (0.48) [a] | Pass |
| 69 | Mass 69 relative abundance | 37912 | 56.9 | | Pass |
| 70 | Less than 2.0% of mass 69 | 95 | 0.14 | (0.25) [a] | Pass |
| 127 | 40.0 - 60.0% of mass 198 | 38144 | 57.3 | | Pass |
| 197 | Less than 1.0% of mass 198 | 341 | 0.51 | | Pass |
| 198 | Base peak, 100% relative abundance | 66602 | 100.0 | | Pass |
| 199 | 5.0 - 9.0% of mass 198 | 4261 | 6.40 | | Pass |
| 275 | 10.0 - 30.0% of mass 198 | 12903 | 19.4 | | Pass |
| 365 | 1.0 - 100.0% of mass 198 | 1700 | 2.55 | | Pass |
| 441 | Present, but less than mass 443 | 5733 | 8.61 | (78.4) [b] | Pass |
| 442 | 40.0 - 100.0% of mass 198 | 39474 | 59.3 | | Pass |
| 443 | 17.0 - 23.0% of mass 442 | 7313 | 11.0 | (18.5) [c] | Pass |

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| E5P3881-IC3881 | 5P81749.D | 03/09/22 | 12:33 | 00:28 | Initial cal 20 |
| E5P3881-IC3881 | 5P81750.D | 03/09/22 | 13:00 | 00:55 | Initial cal 0.2 |
| E5P3881-IC3881 | 5P81751.D | 03/09/22 | 13:27 | 01:22 | Initial cal 16 |
| E5P3881-IC3881 | 5P81752.D | 03/09/22 | 13:54 | 01:49 | Initial cal 0.4 |
| E5P3881-IC3881 | 5P81753.D | 03/09/22 | 14:21 | 02:16 | Initial cal 10 |
| E5P3881-IC3881 | 5P81754.D | 03/09/22 | 14:48 | 02:43 | Initial cal 1 |
| E5P3881-ICC3881 | 5P81755.D | 03/09/22 | 15:15 | 03:10 | Initial cal 5 |
| E5P3881-IC3881 | 5P81756.D | 03/09/22 | 15:42 | 03:37 | Initial cal 2 |
| E5P3881-ICV3881 | 5P81757.D | 03/09/22 | 16:10 | 04:05 | Initial cal verification 10 |
| E5P3881-ICV3881 | 5P81758.D | 03/09/22 | 16:37 | 04:32 | Initial cal verification 10 |
| E5P3881-ICV3881 | 5P81759.D | 03/09/22 | 17:04 | 04:59 | Initial cal verification 10 |
| E5P3881-ICV3881 | 5P81761.D | 03/09/22 | 17:57 | 05:52 | Initial cal verification 10 |
| E5P3881-ICV3881 | 5P81762.D | 03/09/22 | 18:37 | 06:32 | Initial cal verification 10 |

# Instrument Performance Check (DFTPP)



**Job Number:** JD42660
**Account:** BBGTXH BBG Assessments, LLC
**Project:** One & Two Penn:11555 and 11595 North Meridian Street

| | | | |
|---|---|---|---|
| **Sample:** | E5P3915-DFTPP | **Injection Date:** | 04/13/22 |
| **Lab File ID:** | 5P82449.D | **Injection Time:** | 04:22 |
| **Instrument ID:** | GCMS5P | | |

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 51 | 30.0 - 60.0% of mass 198 | 19828 | 31.0 | | Pass |
| 68 | Less than 2.0% of mass 69 | 0 | 0.00 | (0.00) [a] | Pass |
| 69 | Mass 69 relative abundance | 31793 | 49.7 | | Pass |
| 70 | Less than 2.0% of mass 69 | 118 | 0.18 | (0.37) [a] | Pass |
| 127 | 40.0 - 60.0% of mass 198 | 38061 | 59.5 | | Pass |
| 197 | Less than 1.0% of mass 198 | 584 | 0.91 | | Pass |
| 198 | Base peak, 100% relative abundance | 64006 | 100.0 | | Pass |
| 199 | 5.0 - 9.0% of mass 198 | 4534 | 7.08 | | Pass |
| 275 | 10.0 - 30.0% of mass 198 | 12603 | 19.7 | | Pass |
| 365 | 1.0 - 100.0% of mass 198 | 1437 | 2.25 | | Pass |
| 441 | Present, but less than mass 443 | 4723 | 7.38 | (74.5) [b] | Pass |
| 442 | 40.0 - 100.0% of mass 198 | 32549 | 50.9 | | Pass |
| 443 | 17.0 - 23.0% of mass 442 | 6336 | 9.90 | (19.5) [c] | Pass |

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| E5P3915-CC3881 | 5P82450.D | 04/13/22 | 04:40 | 00:18 | Continuing cal 10 |
| E5P3915-CC3865 | 5P82451.D | 04/13/22 | 05:09 | 00:47 | Continuing cal 10 |
| OP39042-MB1 | 5P82452.D | 04/13/22 | 05:36 | 01:14 | Method Blank |
| OP39042-BS1 | 5P82453.D | 04/13/22 | 06:02 | 01:40 | Blank Spike |
| OP39042-BSD | 5P82454.D | 04/13/22 | 06:27 | 02:05 | Blank Spike Duplicate |
| JD42660-2 | 5P82455.D | 04/13/22 | 06:53 | 02:31 | B-1-GW |
| JD42660-5 | 5P82456.D | 04/13/22 | 07:19 | 02:57 | B-3-GW |

# Instrument Performance Check (DFTPP)



**Job Number:** JD42660
**Account:** BBGTXH BBG Assessments, LLC
**Project:** One & Two Penn:11555 and 11595 North Meridian Street

| | | | |
|---|---|---|---|
| **Sample:** | EZ7750-DFTPP | **Injection Date:** | 03/24/22 |
| **Lab File ID:** | Z155953.D | **Injection Time:** | 22:03 |
| **Instrument ID:** | GCMSZ | | |

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 51 | 30.0 - 60.0% of mass 198 | 25921 | 44.4 | | Pass |
| 68 | Less than 2.0% of mass 69 | 0 | 0.00 | (0.00) [a] | Pass |
| 69 | Mass 69 relative abundance | 29709 | 50.9 | | Pass |
| 70 | Less than 2.0% of mass 69 | 0 | 0.00 | (0.00) [a] | Pass |
| 127 | 40.0 - 60.0% of mass 198 | 30567 | 52.4 | | Pass |
| 197 | Less than 1.0% of mass 198 | 338 | 0.58 | | Pass |
| 198 | Base peak, 100% relative abundance | 58365 | 100.0 | | Pass |
| 199 | 5.0 - 9.0% of mass 198 | 3900 | 6.68 | | Pass |
| 275 | 10.0 - 30.0% of mass 198 | 14765 | 25.3 | | Pass |
| 365 | 1.0 - 100.0% of mass 198 | 2689 | 4.61 | | Pass |
| 441 | Present, but less than mass 443 | 8671 | 14.9 | (79.3) [b] | Pass |
| 442 | 40.0 - 100.0% of mass 198 | 55899 | 95.8 | | Pass |
| 443 | 17.0 - 23.0% of mass 442 | 10931 | 18.7 | (19.6) [c] | Pass |

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| EZ7750-IC7750 | Z155954.D | 03/24/22 | 22:21 | 00:18 | Initial cal 100 |
| EZ7750-IC7750 | Z155955.D | 03/24/22 | 22:45 | 00:42 | Initial cal 80 |
| EZ7750-ICC7750 | Z155956.D | 03/24/22 | 23:09 | 01:06 | Initial cal 50 |
| EZ7750-IC7750 | Z155957.D | 03/24/22 | 23:33 | 01:30 | Initial cal 25 |
| EZ7750-IC7750 | Z155958.D | 03/24/22 | 23:57 | 01:54 | Initial cal 10 |
| EZ7750-IC7750 | Z155959.D | 03/25/22 | 00:21 | 02:18 | Initial cal 5 |
| EZ7750-IC7750 | Z155960.D | 03/25/22 | 00:45 | 02:42 | Initial cal 2 |
| EZ7750-IC7750 | Z155961.D | 03/25/22 | 01:09 | 03:06 | Initial cal 1 |
| EZ7750-ICV7750 | Z155962.D | 03/25/22 | 01:33 | 03:30 | Initial cal verification 50 |

# Instrument Performance Check (DFTPP)



**Job Number:** JD42660
**Account:** BBGTXH BBG Assessments, LLC
**Project:** One & Two Penn:11555 and 11595 North Meridian Street

| | | | |
|---|---|---|---|
| **Sample:** | EZ7760-DFTPP | **Injection Date:** | 04/02/22 |
| **Lab File ID:** | Z156072.D | **Injection Time:** | 03:29 |
| **Instrument ID:** | GCMSZ | | |

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 51 | 30.0 - 60.0% of mass 198 | 24148 | 34.7 | | Pass |
| 68 | Less than 2.0% of mass 69 | 0 | 0.00 | (0.00) [a] | Pass |
| 69 | Mass 69 relative abundance | 30006 | 43.1 | | Pass |
| 70 | Less than 2.0% of mass 69 | 244 | 0.35 | (0.81) [a] | Pass |
| 127 | 40.0 - 60.0% of mass 198 | 32490 | 46.6 | | Pass |
| 197 | Less than 1.0% of mass 198 | 0 | 0.00 | | Pass |
| 198 | Base peak, 100% relative abundance | 69664 | 100.0 | | Pass |
| 199 | 5.0 - 9.0% of mass 198 | 4870 | 6.99 | | Pass |
| 275 | 10.0 - 30.0% of mass 198 | 17581 | 25.2 | | Pass |
| 365 | 1.0 - 100.0% of mass 198 | 2968 | 4.26 | | Pass |
| 441 | Present, but less than mass 443 | 9508 | 13.6 | (84.5) [b] | Pass |
| 442 | 40.0 - 100.0% of mass 198 | 59208 | 85.0 | | Pass |
| 443 | 17.0 - 23.0% of mass 442 | 11250 | 16.1 | (19.0) [c] | Pass |

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| EZ7760-IC7760 | Z156073.D | 04/02/22 | 03:48 | 00:19 | Initial cal 100 |
| EZ7760-IC7760 | Z156074.D | 04/02/22 | 04:12 | 00:43 | Initial cal 1 |
| EZ7760-IC7760 | Z156075.D | 04/02/22 | 04:36 | 01:07 | Initial cal 80 |
| EZ7760-IC7760 | Z156076.D | 04/02/22 | 05:00 | 01:31 | Initial cal 2 |
| EZ7760-ICC7760 | Z156077.D | 04/02/22 | 05:24 | 01:55 | Initial cal 50 |
| EZ7760-IC7760 | Z156078.D | 04/02/22 | 05:48 | 02:19 | Initial cal 5 |
| EZ7760-IC7760 | Z156079.D | 04/02/22 | 06:12 | 02:43 | Initial cal 25 |
| EZ7760-IC7760 | Z156080.D | 04/02/22 | 06:36 | 03:07 | Initial cal 10 |
| EZ7760-ICV7760 | Z156081.D | 04/02/22 | 07:00 | 03:31 | Initial cal verification 50 |
| EZ7760-ICV7760 | Z156082.D | 04/02/22 | 07:24 | 03:55 | Initial cal verification 50 |
| EZ7760-ICV7760 | Z156083.D | 04/02/22 | 07:48 | 04:19 | Initial cal verification 50 |
| EZ7760-ICV7760 | Z156084.D | 04/02/22 | 08:12 | 04:43 | Initial cal verification 50 |
| EZ7760-ICV7760 | Z156085.D | 04/02/22 | 08:36 | 05:07 | Initial cal verification 50 |

# Instrument Performance Check (DFTPP)



**Job Number:** JD42660
**Account:** BBGTXH BBG Assessments, LLC
**Project:** One & Two Penn:11555 and 11595 North Meridian Street

| | | | |
|---|---|---|---|
| **Sample:** | EZ7771-DFTPP | **Injection Date:** | 04/12/22 |
| **Lab File ID:** | Z156256.D | **Injection Time:** | 14:21 |
| **Instrument ID:** | GCMSZ | | |

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 51 | 30.0 - 60.0% of mass 198 | 34588 | 40.7 | | Pass |
| 68 | Less than 2.0% of mass 69 | 157 | 0.18 | (0.39) [a] | Pass |
| 69 | Mass 69 relative abundance | 40294 | 47.5 | | Pass |
| 70 | Less than 2.0% of mass 69 | 216 | 0.25 | (0.54) [a] | Pass |
| 127 | 40.0 - 60.0% of mass 198 | 42995 | 50.6 | | Pass |
| 197 | Less than 1.0% of mass 198 | 0 | 0.00 | | Pass |
| 198 | Base peak, 100% relative abundance | 84893 | 100.0 | | Pass |
| 199 | 5.0 - 9.0% of mass 198 | 5930 | 6.99 | | Pass |
| 275 | 10.0 - 30.0% of mass 198 | 22717 | 26.8 | | Pass |
| 365 | 1.0 - 100.0% of mass 198 | 4235 | 4.99 | | Pass |
| 441 | Present, but less than mass 443 | 12875 | 15.2 | (78.7) [b] | Pass |
| 442 | 40.0 - 100.0% of mass 198 | 80467 | 94.8 | | Pass |
| 443 | 17.0 - 23.0% of mass 442 | 16367 | 19.3 | (20.3) [c] | Pass |

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| EZ7771-CC7760 | Z156257.D | 04/12/22 | 14:39 | 00:18 | Continuing cal 25 |
| EZ7771-CC7750 | Z156258.D | 04/12/22 | 15:02 | 00:41 | Continuing cal 25 |
| OP39053-MB1 | Z156259.D | 04/12/22 | 15:26 | 01:05 | Method Blank |
| OP39053-BS1 | Z156260.D | 04/12/22 | 15:49 | 01:28 | Blank Spike |
| ZZZZZZ | Z156261.D | 04/12/22 | 16:13 | 01:52 | (unrelated sample) |
| ZZZZZZ | Z156262.D | 04/12/22 | 16:36 | 02:15 | (unrelated sample) |
| ZZZZZZ | Z156263.D | 04/12/22 | 17:00 | 02:39 | (unrelated sample) |
| ZZZZZZ | Z156264.D | 04/12/22 | 17:23 | 03:02 | (unrelated sample) |
| ZZZZZZ | Z156265.D | 04/12/22 | 17:47 | 03:26 | (unrelated sample) |
| JD42660-1 | Z156266.D | 04/12/22 | 18:11 | 03:50 | B-1 (8-9) |
| JD42660-3 | Z156267.D | 04/12/22 | 18:34 | 04:13 | B-2 (8-9) |
| JD42660-4 | Z156268.D | 04/12/22 | 18:58 | 04:37 | B-3 (8-9) |
| ZZZZZZ | Z156269.D | 04/12/22 | 19:21 | 05:00 | (unrelated sample) |
| ZZZZZZ | Z156270.D | 04/12/22 | 19:45 | 05:24 | (unrelated sample) |
| ZZZZZZ | Z156271.D | 04/12/22 | 20:09 | 05:48 | (unrelated sample) |
| ZZZZZZ | Z156272.D | 04/12/22 | 20:32 | 06:11 | (unrelated sample) |
| ZZZZZZ | Z156274.D | 04/12/22 | 21:20 | 06:59 | (unrelated sample) |
| ZZZZZZ | Z156275.D | 04/12/22 | 21:43 | 07:22 | (unrelated sample) |
| JD42638-1 | Z156276.D | 04/12/22 | 22:07 | 07:46 | (used for QC only; not part of job JD42660) |

# Instrument Performance Check (DFTPP)



**Job Number:** JD42660
**Account:** BBGTXH BBG Assessments, LLC
**Project:** One & Two Penn:11555 and 11595 North Meridian Street

| | | | |
|---|---|---|---|
| **Sample:** | EZ7771-DFTPP | **Injection Date:** | 04/12/22 |
| **Lab File ID:** | Z156256.D | **Injection Time:** | 14:21 |
| **Instrument ID:** | GCMSZ | | |

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| OP39053-MS | Z156277.D | 04/12/22 | 22:31 | 08:10 | Matrix Spike |
| OP39053-MSD | Z156278.D | 04/12/22 | 22:54 | 08:33 | Matrix Spike Duplicate |
| ZZZZZZ | Z156280.D | 04/12/22 | 23:42 | 09:21 | (unrelated sample) |
| ZZZZZZ | Z156281.D | 04/13/22 | 00:05 | 09:44 | (unrelated sample) |
| ZZZZZZ | Z156282.D | 04/13/22 | 00:29 | 10:08 | (unrelated sample) |

# Surrogate Recovery Summary



**Job Number:** JD42660
**Account:** BBGTXH BBG Assessments, LLC
**Project:** One & Two Penn:11555 and 11595 North Meridian Street

**Method:** SW846 8270E **Matrix:** SO

**Samples and QC shown here apply to the above method**

| Lab Sample ID | Lab File ID | S1 | S2 | S3 |
|---|---|---|---|---|
| JD42660-1 | Z156266.D | 56 | 54 | 69 |
| JD42660-3 | Z156267.D | 60 | 57 | 71 |
| JD42660-4 | Z156268.D | 55 | 54 | 67 |
| OP39053-BS1 | Z156260.D | 63 | 60 | 66 |
| OP39053-MB1 | Z156259.D | 63 | 60 | 73 |
| OP39053-MS | Z156277.D | 56 | 56 | 56 |
| OP39053-MSD | Z156278.D | 58 | 56 | 56 |

| Surrogate Compounds | Recovery Limits |
|---|---|
| **S1** = Nitrobenzene-d5 | 10-119% |
| **S2** = 2-Fluorobiphenyl | 18-112% |
| **S3** = Terphenyl-d14 | 18-125% |

# Surrogate Recovery Summary



**Job Number:** JD42660
**Account:** BBGTXH BBG Assessments, LLC
**Project:** One & Two Penn:11555 and 11595 North Meridian Street

**Method:** SW846 8270E **Matrix:** AQ

**Samples and QC shown here apply to the above method**

| Lab Sample ID | Lab File ID | S1 | S2 | S3 |
|---|---|---|---|---|
| JD42660-2 | 5P82455.D | 30 | 36 | 33 |
| JD42660-5 | 5P82456.D | 64 | 61 | 55 |
| OP39042-BS1 | 5P82453.D | 25* [a] | 25* [a] | 34 |
| OP39042-BSD | 5P82454.D | 44 | 55 | 69 |
| OP39042-MB1 | 5P82452.D | 73 | 73 | 76 |

| Surrogate Compounds | Recovery Limits |
|---|---|
| **S1** = Nitrobenzene-d5 | 28-126% |
| **S2** = 2-Fluorobiphenyl | 26-114% |
| **S3** = Terphenyl-d14 | 16-122% |

(a) Outside of in house control limits.