

## ANALYTICAL REPORT

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10 Hazelwood Drive  
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Tel: (716)691-2600

Laboratory Job ID: 480-187122-1

Client Project/Site: Benchmark - 2101 Kenmore Ave

**For:**

Benchmark Env. Eng. & Science, PLLC  
2558 Hamburg Turnpike  
Suite 300  
Lackawanna, New York 14218

Attn: Mr. Nate Munley



*Authorized for release by:*

*7/27/2021 2:02:34 PM*

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*Results relate only to the items tested and the sample(s) as received by the laboratory.*



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# Definitions/Glossary

Client: Benchmark Env. Eng. & Science, PLLC  
Project/Site: Benchmark - 2101 Kenmore Ave

Job ID: 480-187122-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
vs	Reported analyte concentrations are below 200 ug/kg and may be biased low due to the sample not being collected according to 5035A- L low-level specifications.

### GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

### Metals

Qualifier	Qualifier Description
^6+	Interference Check Standard (ICSA and/or IC SAB) is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

# Case Narrative

Client: Benchmark Env. Eng. & Science, PLLC  
Project/Site: Benchmark - 2101 Kenmore Ave

Job ID: 480-187122-1

## Job ID: 480-187122-1

### Laboratory: Eurofins TestAmerica, Buffalo

#### Narrative

#### Job Narrative 480-187122-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 7/13/2021 1:40 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.3° C.

#### GC/MS VOA

Method 8260C: The continuing calibration verification (CCVIS) associated with batch 480-589127 recovered above the upper control limit for Chloromethane and Vinyl chloride. The samples associated with this CCVIS were non-detect for the affected analytes; therefore, the data have been reported. The associated sample is impacted: SB-J 2-2.5 ft (480-187122-3).

Method 8260C: The continuing calibration verification (CCVIS) associated with batch 480-589127 recovered outside acceptance criteria, low biased, for Cyclohexane. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. The associated sample is: SB-J 2-2.5 ft (480-187122-3).

Method 8260C: The laboratory control sample (LCS) for preparation batch 480-589194 and analytical batch 480-589127 recovered outside control limits for the following analyte: Chloroethane. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported. The associated sample is impacted: SB-J 2-2.5 ft (480-187122-3).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### GC/MS Semi VOA

Method 8270D: The following sample was diluted due to color and appearance: SB-I 0.25-2 ft (480-187122-5). Elevated reporting limits (RL) are provided.

Method 8270D: The following sample was diluted due to color, appearance and viscosity: SB-C 0.5-1.5 ft (480-187122-1). Elevated reporting limits (RL) are provided.

Method 8270D: The LCS (laboratory control standard) for preparation batch 480-589139 and analytical batch 480-589926 recovered above the upper control limit for multiple analytes and surrogates. The associated samples were non-detect or below the client reporting limit for the analytes. Therefore, the data has been reported and qualified. SB-C 0.5-1.5 ft (480-187122-1) and SB-I 0.25-2 ft (480-187122-5)

Method 8270D: The following samples required a dilution due to physical characteristics: SB-C 0.5-1.5 ft (480-187122-1). Because of these dilutions and elevated final volumes at prep, the surrogate spike concentration in the samples were reduced to a level where the recovery calculation does not provide useful information.

Method 8270D: The following samples were diluted to bring the concentration of target analytes within the calibration range: SB-D 0.5-2 ft (480-187122-2) and SB-J 2-2.5 ft (480-187122-3). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### Metals

Method 6010C: The interference check standard solution (ICSA) associated with the following samples showed results for Barium at a level greater than 2 times the limit of detection (LOD). It is believed that the solution contains trace impurities of this element / these elements and the results are not due to matrix interference. These results are consistent with those found by the manufacturer of the ICSA solution. SB-C 0.5-1.5 ft (480-187122-1), SB-D 0.5-2 ft (480-187122-2), SB-H 0.5-1.5 ft (480-187122-4), SB-I 0.25-2 ft (480-187122-5), (480-187122-B-1-B MS), (480-187122-B-1-C MSD), (480-187122-B-1-A PDS) and (480-187122-B-1-A SD ^5)

Method 6010C: The following samples were diluted due to the presence of Total Silicon which interferes with Lead: SB-H 0.5-1.5 ft (480-187122-4) and SB-I 0.25-2 ft (480-187122-5). Elevated reporting limits (RLs) are provided.

# Case Narrative

Client: Benchmark Env. Eng. & Science, PLLC  
Project/Site: Benchmark - 2101 Kenmore Ave

Job ID: 480-187122-1

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## Job ID: 480-187122-1 (Continued)

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### Laboratory: Eurofins TestAmerica, Buffalo (Continued)

Method 6010C: The interference check standard solution (ICSA) associated with the following samples showed results for Barium at a level greater than 2 times the limit of detection (LOD). It is believed that the solution contains trace impurities of this element and the results are not due to matrix interference. These results are consistent with those found by the manufacturer of the ICSA solution. (LCSSRM 480-589173/2-A) and (MB 480-589173/1-A)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### Organic Prep

Method 3550C: Due to the matrix, the initial volume(s) used for the following samples deviated from the standard procedure: 8270DSB-D 0.5-2 ft (480-187122-2), SB-H 0.5-1.5 ft (480-187122-4) and SB-I 0.25-2 ft (480-187122-5). The reporting limits (RLs) have been adjusted proportionately.

Method 3550C: Due to the matrix, the following sample could not be concentrated to the final method required volume: SB-C 0.5-1.5 ft (480-187122-1). The reporting limits (RLs) are elevated proportionately.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.



## Detection Summary

Client: Benchmark Env. Eng. & Science, PLLC  
 Project/Site: Benchmark - 2101 Kenmore Ave

Job ID: 480-187122-1

### Client Sample ID: SB-C 0.5-1.5 ft

### Lab Sample ID: 480-187122-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	2200	J *+	19000	2000	ug/Kg	10	✳	8270D	Total/NA
Pyrene	2300	J *+	19000	2200	ug/Kg	10	✳	8270D	Total/NA
Arsenic	11.9		2.2		mg/Kg	1	✳	6010C	Total/NA
Barium	35.3	^6+	0.56		mg/Kg	1	✳	6010C	Total/NA
Chromium	23.3	F1	0.56		mg/Kg	1	✳	6010C	Total/NA
Lead	119	F1	1.1		mg/Kg	1	✳	6010C	Total/NA

### Client Sample ID: SB-D 0.5-2 ft

### Lab Sample ID: 480-187122-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	360		220	32	ug/Kg	1	✳	8270D	Total/NA
Acenaphthylene	110	J	220	28	ug/Kg	1	✳	8270D	Total/NA
Anthracene	930		220	53	ug/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	4000		220	22	ug/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	3700		220	32	ug/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	5400		220	34	ug/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	2100		220	23	ug/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	1800		220	28	ug/Kg	1	✳	8270D	Total/NA
Chrysene	4500		220	48	ug/Kg	1	✳	8270D	Total/NA
Dibenz(a,h)anthracene	780		220	38	ug/Kg	1	✳	8270D	Total/NA
Fluorene	390		220	25	ug/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	2000		220	27	ug/Kg	1	✳	8270D	Total/NA
Naphthalene	130	J	220	28	ug/Kg	1	✳	8270D	Total/NA
Phenanthrene	5200		220	32	ug/Kg	1	✳	8270D	Total/NA
Pyrene	6000		220	25	ug/Kg	1	✳	8270D	Total/NA
Fluoranthene - DL	8900		1100	110	ug/Kg	5	✳	8270D	Total/NA
Arsenic	27.6		2.6		mg/Kg	1	✳	6010C	Total/NA
Barium	85.4	^6+	0.66		mg/Kg	1	✳	6010C	Total/NA
Cadmium	0.39		0.26		mg/Kg	1	✳	6010C	Total/NA
Chromium	10.9		0.66		mg/Kg	1	✳	6010C	Total/NA
Lead	52.0		1.3		mg/Kg	1	✳	6010C	Total/NA
Mercury	0.11		0.040		mg/Kg	1	✳	7471B	Total/NA

### Client Sample ID: SB-J 2-2.5 ft

### Lab Sample ID: 480-187122-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.0	J vs	28	4.7	ug/Kg	1	✳	8260C	Total/NA
Trichloroethene	12	vs	5.6	1.2	ug/Kg	1	✳	8260C	Total/NA
Acenaphthene	700		190	28	ug/Kg	1	✳	8270D	Total/NA
Acenaphthylene	1300		190	25	ug/Kg	1	✳	8270D	Total/NA
Anthracene	3900		190	47	ug/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	4800		190	19	ug/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	3600		190	28	ug/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	5300		190	30	ug/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	1700		190	20	ug/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	1700		190	25	ug/Kg	1	✳	8270D	Total/NA
Chrysene	4800		190	43	ug/Kg	1	✳	8270D	Total/NA
Dibenz(a,h)anthracene	790		190	34	ug/Kg	1	✳	8270D	Total/NA
Fluorene	3600		190	22	ug/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	1800		190	24	ug/Kg	1	✳	8270D	Total/NA
Naphthalene	4300		190	25	ug/Kg	1	✳	8270D	Total/NA
Fluoranthene - DL	11000		950	100	ug/Kg	5	✳	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

## Detection Summary

Client: Benchmark Env. Eng. & Science, PLLC  
 Project/Site: Benchmark - 2101 Kenmore Ave

Job ID: 480-187122-1

### Client Sample ID: SB-J 2-2.5 ft (Continued)

Lab Sample ID: 480-187122-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene - DL	16000		950	140	ug/Kg	5	✳	8270D	Total/NA
Pyrene - DL	7700		950	110	ug/Kg	5	✳	8270D	Total/NA

### Client Sample ID: SB-H 0.5-1.5 ft

Lab Sample ID: 480-187122-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	170	J	230	33	ug/Kg	1	✳	8270D	Total/NA
Acenaphthylene	180	J	230	29	ug/Kg	1	✳	8270D	Total/NA
Anthracene	540		230	56	ug/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	2200		230	23	ug/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	2100		230	33	ug/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	3400		230	36	ug/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	1100		230	24	ug/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	1100		230	29	ug/Kg	1	✳	8270D	Total/NA
Chrysene	2600		230	50	ug/Kg	1	✳	8270D	Total/NA
Dibenz(a,h)anthracene	390		230	40	ug/Kg	1	✳	8270D	Total/NA
Fluoranthene	4200		230	24	ug/Kg	1	✳	8270D	Total/NA
Fluorene	200	J	230	26	ug/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	1100		230	28	ug/Kg	1	✳	8270D	Total/NA
Naphthalene	84	J	230	29	ug/Kg	1	✳	8270D	Total/NA
Phenanthrene	2600		230	33	ug/Kg	1	✳	8270D	Total/NA
Pyrene	3100		230	26	ug/Kg	1	✳	8270D	Total/NA
Arsenic	88.5		2.7		mg/Kg	1	✳	6010C	Total/NA
Barium	261	^6+	0.68		mg/Kg	1	✳	6010C	Total/NA
Cadmium	0.94		0.27		mg/Kg	1	✳	6010C	Total/NA
Chromium	21.9		0.68		mg/Kg	1	✳	6010C	Total/NA
Lead	331		6.8		mg/Kg	5	✳	6010C	Total/NA
Mercury	0.081		0.041		mg/Kg	1	✳	7471B	Total/NA

### Client Sample ID: SB-I 0.25-2 ft

Lab Sample ID: 480-187122-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	1500	J *+	5600	590	ug/Kg	5	✳	8270D	Total/NA
Phenanthrene	1200	J *+	5600	820	ug/Kg	5	✳	8270D	Total/NA
Pyrene	1000	J *+	5600	650	ug/Kg	5	✳	8270D	Total/NA
Arsenic	8.8		2.5		mg/Kg	1	✳	6010C	Total/NA
Barium	118	^6+	0.62		mg/Kg	1	✳	6010C	Total/NA
Chromium	6.9		0.62		mg/Kg	1	✳	6010C	Total/NA
Lead	38.7		6.2		mg/Kg	5	✳	6010C	Total/NA
Mercury	0.054		0.050		mg/Kg	1	✳	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC  
 Project/Site: Benchmark - 2101 Kenmore Ave

Job ID: 480-187122-1

**Client Sample ID: SB-C 0.5-1.5 ft**

**Lab Sample ID: 480-187122-1**

Date Collected: 07/12/21 10:00

Matrix: Solid

Date Received: 07/13/21 13:40

Percent Solids: 90.9

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		19000	2700	ug/Kg	☼	07/15/21 08:23	07/21/21 21:48	10
Acenaphthylene	ND	*+	19000	2400	ug/Kg	☼	07/15/21 08:23	07/21/21 21:48	10
Anthracene	ND	*+	19000	4600	ug/Kg	☼	07/15/21 08:23	07/21/21 21:48	10
Benzo[a]anthracene	ND	*+	19000	1900	ug/Kg	☼	07/15/21 08:23	07/21/21 21:48	10
Benzo[a]pyrene	ND	*+	19000	2700	ug/Kg	☼	07/15/21 08:23	07/21/21 21:48	10
Benzo[b]fluoranthene	ND	*+	19000	3000	ug/Kg	☼	07/15/21 08:23	07/21/21 21:48	10
Benzo[g,h,i]perylene	ND		19000	2000	ug/Kg	☼	07/15/21 08:23	07/21/21 21:48	10
Benzo[k]fluoranthene	ND	*+	19000	2400	ug/Kg	☼	07/15/21 08:23	07/21/21 21:48	10
Chrysene	ND	*+	19000	4200	ug/Kg	☼	07/15/21 08:23	07/21/21 21:48	10
Dibenz(a,h)anthracene	ND	*+	19000	3300	ug/Kg	☼	07/15/21 08:23	07/21/21 21:48	10
<b>Fluoranthene</b>	<b>2200</b>	<b>J**</b>	19000	2000	ug/Kg	☼	07/15/21 08:23	07/21/21 21:48	10
Fluorene	ND	*+	19000	2200	ug/Kg	☼	07/15/21 08:23	07/21/21 21:48	10
Indeno[1,2,3-cd]pyrene	ND	*+	19000	2300	ug/Kg	☼	07/15/21 08:23	07/21/21 21:48	10
Naphthalene	ND		19000	2400	ug/Kg	☼	07/15/21 08:23	07/21/21 21:48	10
Phenanthrene	ND	*+	19000	2700	ug/Kg	☼	07/15/21 08:23	07/21/21 21:48	10
<b>Pyrene</b>	<b>2300</b>	<b>J**</b>	19000	2200	ug/Kg	☼	07/15/21 08:23	07/21/21 21:48	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	0	S1-	60 - 120				07/15/21 08:23	07/21/21 21:48	10
Nitrobenzene-d5 (Surr)	0	S1-	53 - 120				07/15/21 08:23	07/21/21 21:48	10
p-Terphenyl-d14 (Surr)	0	S1-	79 - 130				07/15/21 08:23	07/21/21 21:48	10

**Method: 6010C - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>11.9</b>		2.2		mg/Kg	☼	07/15/21 12:10	07/20/21 14:04	1
<b>Barium</b>	<b>35.3</b>	<b>^6+</b>	0.56		mg/Kg	☼	07/15/21 12:10	07/20/21 14:04	1
Cadmium	ND		0.22		mg/Kg	☼	07/15/21 12:10	07/20/21 14:04	1
<b>Chromium</b>	<b>23.3</b>	<b>F1</b>	0.56		mg/Kg	☼	07/15/21 12:10	07/20/21 14:04	1
<b>Lead</b>	<b>119</b>	<b>F1</b>	1.1		mg/Kg	☼	07/15/21 12:10	07/20/21 14:04	1
Selenium	ND		4.5		mg/Kg	☼	07/15/21 12:10	07/20/21 14:04	1
Silver	ND		0.67		mg/Kg	☼	07/15/21 12:10	07/20/21 14:04	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.022		mg/Kg	☼	07/14/21 14:08	07/14/21 16:49	1



# Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC  
 Project/Site: Benchmark - 2101 Kenmore Ave

Job ID: 480-187122-1

**Client Sample ID: SB-D 0.5-2 ft**

**Lab Sample ID: 480-187122-2**

Date Collected: 07/12/21 10:30

Matrix: Solid

Date Received: 07/13/21 13:40

Percent Solids: 78.0

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	360		220	32	ug/Kg	☼	07/23/21 08:06	07/26/21 17:51	1
Acenaphthylene	110	J	220	28	ug/Kg	☼	07/23/21 08:06	07/26/21 17:51	1
Anthracene	930		220	53	ug/Kg	☼	07/23/21 08:06	07/26/21 17:51	1
Benzo[a]anthracene	4000		220	22	ug/Kg	☼	07/23/21 08:06	07/26/21 17:51	1
Benzo[a]pyrene	3700		220	32	ug/Kg	☼	07/23/21 08:06	07/26/21 17:51	1
Benzo[b]fluoranthene	5400		220	34	ug/Kg	☼	07/23/21 08:06	07/26/21 17:51	1
Benzo[g,h,i]perylene	2100		220	23	ug/Kg	☼	07/23/21 08:06	07/26/21 17:51	1
Benzo[k]fluoranthene	1800		220	28	ug/Kg	☼	07/23/21 08:06	07/26/21 17:51	1
Chrysene	4500		220	48	ug/Kg	☼	07/23/21 08:06	07/26/21 17:51	1
Dibenz(a,h)anthracene	780		220	38	ug/Kg	☼	07/23/21 08:06	07/26/21 17:51	1
Fluorene	390		220	25	ug/Kg	☼	07/23/21 08:06	07/26/21 17:51	1
Indeno[1,2,3-cd]pyrene	2000		220	27	ug/Kg	☼	07/23/21 08:06	07/26/21 17:51	1
Naphthalene	130	J	220	28	ug/Kg	☼	07/23/21 08:06	07/26/21 17:51	1
Phenanthrene	5200		220	32	ug/Kg	☼	07/23/21 08:06	07/26/21 17:51	1
Pyrene	6000		220	25	ug/Kg	☼	07/23/21 08:06	07/26/21 17:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	103		60 - 120	07/23/21 08:06	07/26/21 17:51	1
Nitrobenzene-d5 (Surr)	89		53 - 120	07/23/21 08:06	07/26/21 17:51	1
p-Terphenyl-d14 (Surr)	92		79 - 130	07/23/21 08:06	07/26/21 17:51	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	8900		1100	110	ug/Kg	☼	07/23/21 08:06	07/27/21 11:35	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	97		60 - 120	07/23/21 08:06	07/27/21 11:35	5
Nitrobenzene-d5 (Surr)	85		53 - 120	07/23/21 08:06	07/27/21 11:35	5
p-Terphenyl-d14 (Surr)	102		79 - 130	07/23/21 08:06	07/27/21 11:35	5

**Method: 6010C - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	27.6		2.6		mg/Kg	☼	07/15/21 12:10	07/20/21 14:24	1
Barium	85.4	^6+	0.66		mg/Kg	☼	07/15/21 12:10	07/20/21 14:24	1
Cadmium	0.39		0.26		mg/Kg	☼	07/15/21 12:10	07/20/21 14:24	1
Chromium	10.9		0.66		mg/Kg	☼	07/15/21 12:10	07/20/21 14:24	1
Lead	52.0		1.3		mg/Kg	☼	07/15/21 12:10	07/20/21 14:24	1
Selenium	ND		5.3		mg/Kg	☼	07/15/21 12:10	07/20/21 14:24	1
Silver	ND		0.79		mg/Kg	☼	07/15/21 12:10	07/20/21 14:24	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11		0.040		mg/Kg	☼	07/14/21 14:08	07/14/21 16:53	1

# Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC  
 Project/Site: Benchmark - 2101 Kenmore Ave

Job ID: 480-187122-1

**Client Sample ID: SB-J 2-2.5 ft**

**Lab Sample ID: 480-187122-3**

Date Collected: 07/12/21 14:30

Matrix: Solid

Date Received: 07/13/21 13:40

Percent Solids: 87.7

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.6	0.41	ug/Kg	☼	07/15/21 10:20	07/15/21 16:02	1
1,1,2,2-Tetrachloroethane	ND	vs	5.6	0.91	ug/Kg	☼	07/15/21 10:20	07/15/21 16:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.6	1.3	ug/Kg	☼	07/15/21 10:20	07/15/21 16:02	1
1,1,2-Trichloroethane	ND	vs	5.6	0.73	ug/Kg	☼	07/15/21 10:20	07/15/21 16:02	1
1,1-Dichloroethane	ND	vs	5.6	0.69	ug/Kg	☼	07/15/21 10:20	07/15/21 16:02	1
1,1-Dichloroethene	ND	vs	5.6	0.69	ug/Kg	☼	07/15/21 10:20	07/15/21 16:02	1
1,2,4-Trichlorobenzene	ND	vs	5.6	0.34	ug/Kg	☼	07/15/21 10:20	07/15/21 16:02	1
1,2,4-Trimethylbenzene	ND	vs	5.6	1.1	ug/Kg	☼	07/15/21 10:20	07/15/21 16:02	1
1,2-Dibromo-3-Chloropropane	ND	vs	5.6	2.8	ug/Kg	☼	07/15/21 10:20	07/15/21 16:02	1
1,2-Dichlorobenzene	ND	vs	5.6	0.44	ug/Kg	☼	07/15/21 10:20	07/15/21 16:02	1
1,2-Dichloroethane	ND	vs	5.6	0.28	ug/Kg	☼	07/15/21 10:20	07/15/21 16:02	1
1,2-Dichloropropane	ND	vs	5.6	2.8	ug/Kg	☼	07/15/21 10:20	07/15/21 16:02	1
1,3,5-Trimethylbenzene	ND	vs	5.6	0.36	ug/Kg	☼	07/15/21 10:20	07/15/21 16:02	1
1,3-Dichlorobenzene	ND	vs	5.6	0.29	ug/Kg	☼	07/15/21 10:20	07/15/21 16:02	1
1,4-Dichlorobenzene	ND	vs	5.6	0.79	ug/Kg	☼	07/15/21 10:20	07/15/21 16:02	1
2-Butanone (MEK)	ND	vs	28	2.1	ug/Kg	☼	07/15/21 10:20	07/15/21 16:02	1
2-Hexanone	ND	vs	28	2.8	ug/Kg	☼	07/15/21 10:20	07/15/21 16:02	1
4-Isopropyltoluene	ND	vs	5.6	0.45	ug/Kg	☼	07/15/21 10:20	07/15/21 16:02	1
4-Methyl-2-pentanone (MIBK)	ND	vs	28	1.8	ug/Kg	☼	07/15/21 10:20	07/15/21 16:02	1
<b>Acetone</b>	<b>5.0</b>	<b>J vs</b>	28	4.7	ug/Kg	☼	07/15/21 10:20	07/15/21 16:02	1
Benzene	ND	vs	5.6	0.28	ug/Kg	☼	07/15/21 10:20	07/15/21 16:02	1
Bromoform	ND	vs	5.6	2.8	ug/Kg	☼	07/15/21 10:20	07/15/21 16:02	1
Bromomethane	ND	vs	5.6	0.51	ug/Kg	☼	07/15/21 10:20	07/15/21 16:02	1
Carbon disulfide	ND	vs	5.6	2.8	ug/Kg	☼	07/15/21 10:20	07/15/21 16:02	1
Carbon tetrachloride	ND	vs	5.6	0.55	ug/Kg	☼	07/15/21 10:20	07/15/21 16:02	1
Chlorobenzene	ND	vs	5.6	0.74	ug/Kg	☼	07/15/21 10:20	07/15/21 16:02	1
Dibromochloromethane	ND	vs	5.6	0.72	ug/Kg	☼	07/15/21 10:20	07/15/21 16:02	1
Chloroethane	ND	vs <sup>+</sup>	5.6	1.3	ug/Kg	☼	07/15/21 10:20	07/15/21 16:02	1
Chloroform	ND	vs	5.6	0.35	ug/Kg	☼	07/15/21 10:20	07/15/21 16:02	1
Chloromethane	ND	vs	5.6	0.34	ug/Kg	☼	07/15/21 10:20	07/15/21 16:02	1
cis-1,2-Dichloroethene	ND	vs	5.6	0.72	ug/Kg	☼	07/15/21 10:20	07/15/21 16:02	1
Cyclohexane	ND	vs	5.6	0.79	ug/Kg	☼	07/15/21 10:20	07/15/21 16:02	1
Bromodichloromethane	ND	vs	5.6	0.75	ug/Kg	☼	07/15/21 10:20	07/15/21 16:02	1
Dichlorodifluoromethane	ND	vs	5.6	0.47	ug/Kg	☼	07/15/21 10:20	07/15/21 16:02	1
Ethylbenzene	ND	vs	5.6	0.39	ug/Kg	☼	07/15/21 10:20	07/15/21 16:02	1
1,2-Dibromoethane	ND	vs	5.6	0.72	ug/Kg	☼	07/15/21 10:20	07/15/21 16:02	1
Isopropylbenzene	ND	vs	5.6	0.85	ug/Kg	☼	07/15/21 10:20	07/15/21 16:02	1
Methyl acetate	ND	vs	28	3.4	ug/Kg	☼	07/15/21 10:20	07/15/21 16:02	1
Methyl tert-butyl ether	ND	vs	5.6	0.55	ug/Kg	☼	07/15/21 10:20	07/15/21 16:02	1
Methylcyclohexane	ND	vs	5.6	0.86	ug/Kg	☼	07/15/21 10:20	07/15/21 16:02	1
Methylene Chloride	ND	vs	5.6	2.6	ug/Kg	☼	07/15/21 10:20	07/15/21 16:02	1
m,p-Xylene	ND	vs	11	0.95	ug/Kg	☼	07/15/21 10:20	07/15/21 16:02	1
n-Butylbenzene	ND	vs	5.6	0.49	ug/Kg	☼	07/15/21 10:20	07/15/21 16:02	1
N-Propylbenzene	ND	vs	5.6	0.45	ug/Kg	☼	07/15/21 10:20	07/15/21 16:02	1
o-Xylene	ND	vs	5.6	0.74	ug/Kg	☼	07/15/21 10:20	07/15/21 16:02	1
sec-Butylbenzene	ND	vs	5.6	0.49	ug/Kg	☼	07/15/21 10:20	07/15/21 16:02	1
Tetrachloroethene	ND	vs	5.6	0.76	ug/Kg	☼	07/15/21 10:20	07/15/21 16:02	1
Toluene	ND	vs	5.6	0.43	ug/Kg	☼	07/15/21 10:20	07/15/21 16:02	1
trans-1,2-Dichloroethene	ND	vs	5.6	0.58	ug/Kg	☼	07/15/21 10:20	07/15/21 16:02	1

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC  
 Project/Site: Benchmark - 2101 Kenmore Ave

Job ID: 480-187122-1

**Client Sample ID: SB-J 2-2.5 ft**

**Lab Sample ID: 480-187122-3**

Date Collected: 07/12/21 14:30

Matrix: Solid

Date Received: 07/13/21 13:40

Percent Solids: 87.7

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND	vs	5.6	2.5	ug/Kg	☼	07/15/21 10:20	07/15/21 16:02	1
<b>Trichloroethene</b>	<b>12</b>	<b>vs</b>	5.6	1.2	ug/Kg	☼	07/15/21 10:20	07/15/21 16:02	1
Trichlorofluoromethane	ND	vs	5.6	0.53	ug/Kg	☼	07/15/21 10:20	07/15/21 16:02	1
Vinyl chloride	ND	vs	5.6	0.69	ug/Kg	☼	07/15/21 10:20	07/15/21 16:02	1
Xylenes, Total	ND	vs	11	0.95	ug/Kg	☼	07/15/21 10:20	07/15/21 16:02	1
cis-1,3-Dichloropropene	ND	vs	5.6	0.81	ug/Kg	☼	07/15/21 10:20	07/15/21 16:02	1
Styrene	ND	vs	5.6	0.28	ug/Kg	☼	07/15/21 10:20	07/15/21 16:02	1
tert-Butylbenzene	ND	vs	5.6	0.59	ug/Kg	☼	07/15/21 10:20	07/15/21 16:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		64 - 126	07/15/21 10:20	07/15/21 16:02	1
4-Bromofluorobenzene (Surr)	89		72 - 126	07/15/21 10:20	07/15/21 16:02	1
Toluene-d8 (Surr)	97		71 - 125	07/15/21 10:20	07/15/21 16:02	1
Dibromofluoromethane (Surr)	105		60 - 140	07/15/21 10:20	07/15/21 16:02	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acenaphthene</b>	<b>700</b>		190	28	ug/Kg	☼	07/23/21 08:06	07/26/21 18:15	1
<b>Acenaphthylene</b>	<b>1300</b>		190	25	ug/Kg	☼	07/23/21 08:06	07/26/21 18:15	1
<b>Anthracene</b>	<b>3900</b>		190	47	ug/Kg	☼	07/23/21 08:06	07/26/21 18:15	1
<b>Benzo[a]anthracene</b>	<b>4800</b>		190	19	ug/Kg	☼	07/23/21 08:06	07/26/21 18:15	1
<b>Benzo[a]pyrene</b>	<b>3600</b>		190	28	ug/Kg	☼	07/23/21 08:06	07/26/21 18:15	1
<b>Benzo[b]fluoranthene</b>	<b>5300</b>		190	30	ug/Kg	☼	07/23/21 08:06	07/26/21 18:15	1
<b>Benzo[g,h,i]perylene</b>	<b>1700</b>		190	20	ug/Kg	☼	07/23/21 08:06	07/26/21 18:15	1
<b>Benzo[k]fluoranthene</b>	<b>1700</b>		190	25	ug/Kg	☼	07/23/21 08:06	07/26/21 18:15	1
<b>Chrysene</b>	<b>4800</b>		190	43	ug/Kg	☼	07/23/21 08:06	07/26/21 18:15	1
<b>Dibenz(a,h)anthracene</b>	<b>790</b>		190	34	ug/Kg	☼	07/23/21 08:06	07/26/21 18:15	1
<b>Fluorene</b>	<b>3600</b>		190	22	ug/Kg	☼	07/23/21 08:06	07/26/21 18:15	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>1800</b>		190	24	ug/Kg	☼	07/23/21 08:06	07/26/21 18:15	1
<b>Naphthalene</b>	<b>4300</b>		190	25	ug/Kg	☼	07/23/21 08:06	07/26/21 18:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	98		60 - 120	07/23/21 08:06	07/26/21 18:15	1
Nitrobenzene-d5 (Surr)	85		53 - 120	07/23/21 08:06	07/26/21 18:15	1
p-Terphenyl-d14 (Surr)	87		79 - 130	07/23/21 08:06	07/26/21 18:15	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Fluoranthene</b>	<b>11000</b>		950	100	ug/Kg	☼	07/23/21 08:06	07/27/21 12:00	5
<b>Phenanthrene</b>	<b>16000</b>		950	140	ug/Kg	☼	07/23/21 08:06	07/27/21 12:00	5
<b>Pyrene</b>	<b>7700</b>		950	110	ug/Kg	☼	07/23/21 08:06	07/27/21 12:00	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	92		60 - 120	07/23/21 08:06	07/27/21 12:00	5
Nitrobenzene-d5 (Surr)	83		53 - 120	07/23/21 08:06	07/27/21 12:00	5
p-Terphenyl-d14 (Surr)	98		79 - 130	07/23/21 08:06	07/27/21 12:00	5

# Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC  
 Project/Site: Benchmark - 2101 Kenmore Ave

Job ID: 480-187122-1

**Client Sample ID: SB-H 0.5-1.5 ft**

**Lab Sample ID: 480-187122-4**

Date Collected: 07/12/21 12:30

Matrix: Solid

Date Received: 07/13/21 13:40

Percent Solids: 73.4

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	170	J	230	33	ug/Kg	✱	07/23/21 08:06	07/26/21 18:39	1
Acenaphthylene	180	J	230	29	ug/Kg	✱	07/23/21 08:06	07/26/21 18:39	1
Anthracene	540		230	56	ug/Kg	✱	07/23/21 08:06	07/26/21 18:39	1
Benzo[a]anthracene	2200		230	23	ug/Kg	✱	07/23/21 08:06	07/26/21 18:39	1
Benzo[a]pyrene	2100		230	33	ug/Kg	✱	07/23/21 08:06	07/26/21 18:39	1
Benzo[b]fluoranthene	3400		230	36	ug/Kg	✱	07/23/21 08:06	07/26/21 18:39	1
Benzo[g,h,i]perylene	1100		230	24	ug/Kg	✱	07/23/21 08:06	07/26/21 18:39	1
Benzo[k]fluoranthene	1100		230	29	ug/Kg	✱	07/23/21 08:06	07/26/21 18:39	1
Chrysene	2600		230	50	ug/Kg	✱	07/23/21 08:06	07/26/21 18:39	1
Dibenz(a,h)anthracene	390		230	40	ug/Kg	✱	07/23/21 08:06	07/26/21 18:39	1
Fluoranthene	4200		230	24	ug/Kg	✱	07/23/21 08:06	07/26/21 18:39	1
Fluorene	200	J	230	26	ug/Kg	✱	07/23/21 08:06	07/26/21 18:39	1
Indeno[1,2,3-cd]pyrene	1100		230	28	ug/Kg	✱	07/23/21 08:06	07/26/21 18:39	1
Naphthalene	84	J	230	29	ug/Kg	✱	07/23/21 08:06	07/26/21 18:39	1
Phenanthrene	2600		230	33	ug/Kg	✱	07/23/21 08:06	07/26/21 18:39	1
Pyrene	3100		230	26	ug/Kg	✱	07/23/21 08:06	07/26/21 18:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	104		60 - 120				07/23/21 08:06	07/26/21 18:39	1
Nitrobenzene-d5 (Surr)	90		53 - 120				07/23/21 08:06	07/26/21 18:39	1
p-Terphenyl-d14 (Surr)	88		79 - 130				07/23/21 08:06	07/26/21 18:39	1

**Method: 6010C - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	88.5		2.7		mg/Kg	✱	07/15/21 12:10	07/20/21 14:39	1
Barium	261	^6+	0.68		mg/Kg	✱	07/15/21 12:10	07/20/21 14:39	1
Cadmium	0.94		0.27		mg/Kg	✱	07/15/21 12:10	07/20/21 14:39	1
Chromium	21.9		0.68		mg/Kg	✱	07/15/21 12:10	07/20/21 14:39	1
Lead	331		6.8		mg/Kg	✱	07/15/21 12:10	07/21/21 20:34	5
Selenium	ND		5.5		mg/Kg	✱	07/15/21 12:10	07/20/21 14:39	1
Silver	ND		0.82		mg/Kg	✱	07/15/21 12:10	07/20/21 14:39	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.081		0.041		mg/Kg	✱	07/14/21 14:08	07/14/21 16:55	1

# Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC  
 Project/Site: Benchmark - 2101 Kenmore Ave

Job ID: 480-187122-1

**Client Sample ID: SB-I 0.25-2 ft**

**Lab Sample ID: 480-187122-5**

Date Collected: 07/12/21 13:30

Matrix: Solid

Date Received: 07/13/21 13:40

Percent Solids: 85.3

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5600	820	ug/Kg	✱	07/15/21 08:23	07/21/21 23:22	5
Acenaphthylene	ND	*+	5600	720	ug/Kg	✱	07/15/21 08:23	07/21/21 23:22	5
Anthracene	ND	*+	5600	1400	ug/Kg	✱	07/15/21 08:23	07/21/21 23:22	5
Benzo[a]anthracene	ND	*+	5600	560	ug/Kg	✱	07/15/21 08:23	07/21/21 23:22	5
Benzo[a]pyrene	ND	*+	5600	820	ug/Kg	✱	07/15/21 08:23	07/21/21 23:22	5
Benzo[b]fluoranthene	ND	*+	5600	880	ug/Kg	✱	07/15/21 08:23	07/21/21 23:22	5
Benzo[g,h,i]perylene	ND		5600	590	ug/Kg	✱	07/15/21 08:23	07/21/21 23:22	5
Benzo[k]fluoranthene	ND	*+	5600	720	ug/Kg	✱	07/15/21 08:23	07/21/21 23:22	5
Chrysene	ND	*+	5600	1200	ug/Kg	✱	07/15/21 08:23	07/21/21 23:22	5
Dibenz(a,h)anthracene	ND	*+	5600	980	ug/Kg	✱	07/15/21 08:23	07/21/21 23:22	5
<b>Fluoranthene</b>	<b>1500</b>	<b>J**</b>	5600	590	ug/Kg	✱	07/15/21 08:23	07/21/21 23:22	5
Fluorene	ND	*+	5600	650	ug/Kg	✱	07/15/21 08:23	07/21/21 23:22	5
Indeno[1,2,3-cd]pyrene	ND	*+	5600	690	ug/Kg	✱	07/15/21 08:23	07/21/21 23:22	5
Naphthalene	ND		5600	720	ug/Kg	✱	07/15/21 08:23	07/21/21 23:22	5
<b>Phenanthrene</b>	<b>1200</b>	<b>J**</b>	5600	820	ug/Kg	✱	07/15/21 08:23	07/21/21 23:22	5
<b>Pyrene</b>	<b>1000</b>	<b>J**</b>	5600	650	ug/Kg	✱	07/15/21 08:23	07/21/21 23:22	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	77		60 - 120				07/15/21 08:23	07/21/21 23:22	5
Nitrobenzene-d5 (Surr)	68		53 - 120				07/15/21 08:23	07/21/21 23:22	5
p-Terphenyl-d14 (Surr)	87		79 - 130				07/15/21 08:23	07/21/21 23:22	5

**Method: 6010C - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>8.8</b>		2.5		mg/Kg	✱	07/15/21 12:10	07/20/21 14:43	1
<b>Barium</b>	<b>118</b>	<b>^6+</b>	0.62		mg/Kg	✱	07/15/21 12:10	07/20/21 14:43	1
Cadmium	ND		0.25		mg/Kg	✱	07/15/21 12:10	07/20/21 14:43	1
<b>Chromium</b>	<b>6.9</b>		0.62		mg/Kg	✱	07/15/21 12:10	07/20/21 14:43	1
<b>Lead</b>	<b>38.7</b>		6.2		mg/Kg	✱	07/15/21 12:10	07/21/21 20:38	5
Selenium	ND		4.9		mg/Kg	✱	07/15/21 12:10	07/20/21 14:43	1
Silver	ND		0.74		mg/Kg	✱	07/15/21 12:10	07/20/21 14:43	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.054</b>		0.050		mg/Kg	✱	07/14/21 14:08	07/14/21 16:57	1

# Surrogate Summary

Client: Benchmark Env. Eng. & Science, PLLC  
 Project/Site: Benchmark - 2101 Kenmore Ave

Job ID: 480-187122-1

## Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (64-126)	BFB (72-126)	TOL (71-125)	DBFM (60-140)
480-187122-3	SB-J 2-2.5 ft	108	89	97	105
LCS 480-589194/1-A	Lab Control Sample	101	97	98	99
MB 480-589194/2-A	Method Blank	106	93	95	103

**Surrogate Legend**

DCA = 1,2-Dichloroethane-d4 (Surr)  
 BFB = 4-Bromofluorobenzene (Surr)  
 TOL = Toluene-d8 (Surr)  
 DBFM = Dibromofluoromethane (Surr)

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		FBP (60-120)	NBZ (53-120)	TPHd14 (79-130)
480-187122-1	SB-C 0.5-1.5 ft	0 S1-	0 S1-	0 S1-
480-187122-2	SB-D 0.5-2 ft	103	89	92
480-187122-2 - DL	SB-D 0.5-2 ft	97	85	102
480-187122-3	SB-J 2-2.5 ft	98	85	87
480-187122-3 - DL	SB-J 2-2.5 ft	92	83	98
480-187122-4	SB-H 0.5-1.5 ft	104	90	88
480-187122-5	SB-I 0.25-2 ft	77	68	87
LCS 480-589139/2-A	Lab Control Sample	115	112	141 S1+
LCS 480-590169/2-A	Lab Control Sample	99	93	106
MB 480-589139/1-A	Method Blank	91	89	112
MB 480-590169/1-A	Method Blank	107	98	118

**Surrogate Legend**

FBP = 2-Fluorobiphenyl  
 NBZ = Nitrobenzene-d5 (Surr)  
 TPHd14 = p-Terphenyl-d14 (Surr)

# QC Sample Results

Client: Benchmark Env. Eng. & Science, PLLC  
 Project/Site: Benchmark - 2101 Kenmore Ave

Job ID: 480-187122-1

## Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-589194/2-A

Matrix: Solid

Analysis Batch: 589127

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 589194

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg		07/15/21 10:20	07/15/21 11:12	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.81	ug/Kg		07/15/21 10:20	07/15/21 11:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg		07/15/21 10:20	07/15/21 11:12	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg		07/15/21 10:20	07/15/21 11:12	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg		07/15/21 10:20	07/15/21 11:12	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg		07/15/21 10:20	07/15/21 11:12	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/Kg		07/15/21 10:20	07/15/21 11:12	1
1,2,4-Trimethylbenzene	ND		5.0	0.96	ug/Kg		07/15/21 10:20	07/15/21 11:12	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg		07/15/21 10:20	07/15/21 11:12	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg		07/15/21 10:20	07/15/21 11:12	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg		07/15/21 10:20	07/15/21 11:12	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg		07/15/21 10:20	07/15/21 11:12	1
1,3,5-Trimethylbenzene	ND		5.0	0.32	ug/Kg		07/15/21 10:20	07/15/21 11:12	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg		07/15/21 10:20	07/15/21 11:12	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg		07/15/21 10:20	07/15/21 11:12	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg		07/15/21 10:20	07/15/21 11:12	1
2-Hexanone	ND		25	2.5	ug/Kg		07/15/21 10:20	07/15/21 11:12	1
4-Isopropyltoluene	ND		5.0	0.40	ug/Kg		07/15/21 10:20	07/15/21 11:12	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg		07/15/21 10:20	07/15/21 11:12	1
Acetone	ND		25	4.2	ug/Kg		07/15/21 10:20	07/15/21 11:12	1
Benzene	ND		5.0	0.25	ug/Kg		07/15/21 10:20	07/15/21 11:12	1
Bromoform	ND		5.0	2.5	ug/Kg		07/15/21 10:20	07/15/21 11:12	1
Bromomethane	ND		5.0	0.45	ug/Kg		07/15/21 10:20	07/15/21 11:12	1
Carbon disulfide	ND		5.0	2.5	ug/Kg		07/15/21 10:20	07/15/21 11:12	1
Carbon tetrachloride	ND		5.0	0.48	ug/Kg		07/15/21 10:20	07/15/21 11:12	1
Chlorobenzene	ND		5.0	0.66	ug/Kg		07/15/21 10:20	07/15/21 11:12	1
Dibromochloromethane	ND		5.0	0.64	ug/Kg		07/15/21 10:20	07/15/21 11:12	1
Chloroethane	ND		5.0	1.1	ug/Kg		07/15/21 10:20	07/15/21 11:12	1
Chloroform	ND		5.0	0.31	ug/Kg		07/15/21 10:20	07/15/21 11:12	1
Chloromethane	ND		5.0	0.30	ug/Kg		07/15/21 10:20	07/15/21 11:12	1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg		07/15/21 10:20	07/15/21 11:12	1
Cyclohexane	ND		5.0	0.70	ug/Kg		07/15/21 10:20	07/15/21 11:12	1
Bromodichloromethane	ND		5.0	0.67	ug/Kg		07/15/21 10:20	07/15/21 11:12	1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg		07/15/21 10:20	07/15/21 11:12	1
Ethylbenzene	ND		5.0	0.35	ug/Kg		07/15/21 10:20	07/15/21 11:12	1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg		07/15/21 10:20	07/15/21 11:12	1
Isopropylbenzene	ND		5.0	0.75	ug/Kg		07/15/21 10:20	07/15/21 11:12	1
Methyl acetate	ND		25	3.0	ug/Kg		07/15/21 10:20	07/15/21 11:12	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg		07/15/21 10:20	07/15/21 11:12	1
Methylcyclohexane	ND		5.0	0.76	ug/Kg		07/15/21 10:20	07/15/21 11:12	1
Methylene Chloride	ND		5.0	2.3	ug/Kg		07/15/21 10:20	07/15/21 11:12	1
m,p-Xylene	ND		10	0.84	ug/Kg		07/15/21 10:20	07/15/21 11:12	1
n-Butylbenzene	ND		5.0	0.44	ug/Kg		07/15/21 10:20	07/15/21 11:12	1
N-Propylbenzene	ND		5.0	0.40	ug/Kg		07/15/21 10:20	07/15/21 11:12	1
o-Xylene	ND		5.0	0.65	ug/Kg		07/15/21 10:20	07/15/21 11:12	1
sec-Butylbenzene	ND		5.0	0.44	ug/Kg		07/15/21 10:20	07/15/21 11:12	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg		07/15/21 10:20	07/15/21 11:12	1
Toluene	ND		5.0	0.38	ug/Kg		07/15/21 10:20	07/15/21 11:12	1

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# QC Sample Results

Client: Benchmark Env. Eng. & Science, PLLC  
 Project/Site: Benchmark - 2101 Kenmore Ave

Job ID: 480-187122-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-589194/2-A

Matrix: Solid

Analysis Batch: 589127

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 589194

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg		07/15/21 10:20	07/15/21 11:12	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg		07/15/21 10:20	07/15/21 11:12	1
Trichloroethene	ND		5.0	1.1	ug/Kg		07/15/21 10:20	07/15/21 11:12	1
Trichlorofluoromethane	ND		5.0	0.47	ug/Kg		07/15/21 10:20	07/15/21 11:12	1
Vinyl chloride	ND		5.0	0.61	ug/Kg		07/15/21 10:20	07/15/21 11:12	1
Xylenes, Total	ND		10	0.84	ug/Kg		07/15/21 10:20	07/15/21 11:12	1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg		07/15/21 10:20	07/15/21 11:12	1
Styrene	ND		5.0	0.25	ug/Kg		07/15/21 10:20	07/15/21 11:12	1
tert-Butylbenzene	ND		5.0	0.52	ug/Kg		07/15/21 10:20	07/15/21 11:12	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	106		64 - 126	07/15/21 10:20	07/15/21 11:12	1
4-Bromofluorobenzene (Surr)	93		72 - 126	07/15/21 10:20	07/15/21 11:12	1
Toluene-d8 (Surr)	95		71 - 125	07/15/21 10:20	07/15/21 11:12	1
Dibromofluoromethane (Surr)	103		60 - 140	07/15/21 10:20	07/15/21 11:12	1

Lab Sample ID: LCS 480-589194/1-A

Matrix: Solid

Analysis Batch: 589127

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 589194

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
1,1,1-Trichloroethane	50.0	48.0		ug/Kg		96	77 - 121
1,1,2,2-Tetrachloroethane	50.0	47.8		ug/Kg		96	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	45.3		ug/Kg		91	60 - 140
1,1,2-Trichloroethane	50.0	48.3		ug/Kg		97	78 - 122
1,1-Dichloroethane	50.0	49.0		ug/Kg		98	73 - 126
1,1-Dichloroethene	50.0	46.1		ug/Kg		92	59 - 125
1,2,4-Trichlorobenzene	50.0	43.1		ug/Kg		86	64 - 120
1,2,4-Trimethylbenzene	50.0	46.7		ug/Kg		93	74 - 120
1,2-Dibromo-3-Chloropropane	50.0	45.2		ug/Kg		90	63 - 124
1,2-Dichlorobenzene	50.0	45.9		ug/Kg		92	75 - 120
1,2-Dichloroethane	50.0	47.0		ug/Kg		94	77 - 122
1,2-Dichloropropane	50.0	48.4		ug/Kg		97	75 - 124
1,3,5-Trimethylbenzene	50.0	46.8		ug/Kg		94	74 - 120
1,3-Dichlorobenzene	50.0	47.6		ug/Kg		95	74 - 120
1,4-Dichlorobenzene	50.0	47.8		ug/Kg		96	73 - 120
2-Butanone (MEK)	250	236		ug/Kg		95	70 - 134
2-Hexanone	250	250		ug/Kg		100	59 - 130
4-Isopropyltoluene	50.0	45.8		ug/Kg		92	74 - 120
4-Methyl-2-pentanone (MIBK)	250	237		ug/Kg		95	65 - 133
Acetone	250	224		ug/Kg		89	61 - 137
Benzene	50.0	49.4		ug/Kg		99	79 - 127
Bromoform	50.0	47.2		ug/Kg		94	68 - 126
Bromomethane	50.0	60.6		ug/Kg		121	37 - 149
Carbon disulfide	50.0	45.4		ug/Kg		91	64 - 131
Carbon tetrachloride	50.0	50.2		ug/Kg		100	75 - 135
Chlorobenzene	50.0	47.3		ug/Kg		95	76 - 124
Dibromochloromethane	50.0	52.2		ug/Kg		104	76 - 125

Eurofins TestAmerica, Buffalo



# QC Sample Results

Client: Benchmark Env. Eng. & Science, PLLC  
 Project/Site: Benchmark - 2101 Kenmore Ave

Job ID: 480-187122-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-589194/1-A

Matrix: Solid

Analysis Batch: 589127

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 589194

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroethane	50.0	70.3	*+	ug/Kg		141	69 - 135
Chloroform	50.0	48.7		ug/Kg		97	80 - 120
Chloromethane	50.0	59.9		ug/Kg		120	63 - 127
cis-1,2-Dichloroethene	50.0	47.9		ug/Kg		96	81 - 120
Cyclohexane	50.0	41.0		ug/Kg		82	65 - 120
Bromodichloromethane	50.0	52.0		ug/Kg		104	80 - 122
Dichlorodifluoromethane	50.0	37.8		ug/Kg		76	57 - 142
Ethylbenzene	50.0	48.5		ug/Kg		97	80 - 120
1,2-Dibromoethane	50.0	46.5		ug/Kg		93	78 - 120
Isopropylbenzene	50.0	45.5		ug/Kg		91	72 - 120
Methyl acetate	100	91.4		ug/Kg		91	55 - 136
Methyl tert-butyl ether	50.0	44.8		ug/Kg		90	63 - 125
Methylcyclohexane	50.0	43.2		ug/Kg		86	60 - 140
Methylene Chloride	50.0	50.9		ug/Kg		102	61 - 127
m,p-Xylene	50.0	48.0		ug/Kg		96	70 - 130
Naphthalene	50.0	40.3		ug/Kg		81	38 - 137
n-Butylbenzene	50.0	47.9		ug/Kg		96	70 - 120
N-Propylbenzene	50.0	48.1		ug/Kg		96	70 - 130
o-Xylene	50.0	46.6		ug/Kg		93	70 - 130
sec-Butylbenzene	50.0	45.9		ug/Kg		92	74 - 120
Tetrachloroethene	50.0	45.6		ug/Kg		91	74 - 122
Toluene	50.0	47.7		ug/Kg		95	74 - 128
trans-1,2-Dichloroethene	50.0	49.1		ug/Kg		98	78 - 126
trans-1,3-Dichloropropene	50.0	50.1		ug/Kg		100	73 - 123
Trichloroethene	50.0	47.2		ug/Kg		94	77 - 129
Trichlorofluoromethane	50.0	55.0		ug/Kg		110	65 - 146
Vinyl chloride	50.0	63.6		ug/Kg		127	61 - 133
cis-1,3-Dichloropropene	50.0	49.1		ug/Kg		98	80 - 120
Styrene	50.0	47.0		ug/Kg		94	80 - 120
tert-Butylbenzene	50.0	44.8		ug/Kg		90	73 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	101		64 - 126
4-Bromofluorobenzene (Surr)	97		72 - 126
Toluene-d8 (Surr)	98		71 - 125
Dibromofluoromethane (Surr)	99		60 - 140

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-589139/1-A

Matrix: Solid

Analysis Batch: 589926

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 589139

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	ND		170	25	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
Acenaphthylene	ND		170	22	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
Anthracene	ND		170	42	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
Benzo[a]anthracene	ND		170	17	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
Benzo[a]pyrene	ND		170	25	ug/Kg		07/15/21 08:23	07/21/21 15:03	1

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## QC Sample Results

Client: Benchmark Env. Eng. & Science, PLLC  
 Project/Site: Benchmark - 2101 Kenmore Ave

Job ID: 480-187122-1

### Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-589139/1-A

Matrix: Solid

Analysis Batch: 589926

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 589139

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzo[b]fluoranthene	ND		170	27	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
Benzo[g,h,i]perylene	ND		170	18	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
Benzo[k]fluoranthene	ND		170	22	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
Chrysene	ND		170	38	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
Dibenz(a,h)anthracene	ND		170	30	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
Fluoranthene	ND		170	18	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
Fluorene	ND		170	20	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
Indeno[1,2,3-cd]pyrene	ND		170	21	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
Naphthalene	ND		170	22	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
Phenanthrene	ND		170	25	ug/Kg		07/15/21 08:23	07/21/21 15:03	1
Pyrene	ND		170	20	ug/Kg		07/15/21 08:23	07/21/21 15:03	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorobiphenyl	91		60 - 120	07/15/21 08:23	07/21/21 15:03	1
Nitrobenzene-d5 (Surr)	89		53 - 120	07/15/21 08:23	07/21/21 15:03	1
p-Terphenyl-d14 (Surr)	112		79 - 130	07/15/21 08:23	07/21/21 15:03	1

Lab Sample ID: LCS 480-589139/2-A

Matrix: Solid

Analysis Batch: 589926

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 589139

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Acenaphthene	1640	1960		ug/Kg		119	62 - 120
Acenaphthylene	1640	2040	*+	ug/Kg		124	58 - 121
Anthracene	1640	2290	*+	ug/Kg		139	62 - 120
Benzo[a]anthracene	1640	2280	*+	ug/Kg		139	65 - 120
Benzo[a]pyrene	1640	2170	*+	ug/Kg		132	64 - 120
Benzo[b]fluoranthene	1640	2290	*+	ug/Kg		139	64 - 120
Benzo[g,h,i]perylene	1640	2140		ug/Kg		130	45 - 145
Benzo[k]fluoranthene	1640	2270	*+	ug/Kg		138	65 - 120
Chrysene	1640	2240	*+	ug/Kg		136	64 - 120
Dibenz(a,h)anthracene	1640	2270	*+	ug/Kg		138	54 - 132
Fluoranthene	1640	2370	*+	ug/Kg		144	62 - 120
Fluorene	1640	2110	*+	ug/Kg		129	63 - 120
Indeno[1,2,3-cd]pyrene	1640	2240	*+	ug/Kg		136	56 - 134
Naphthalene	1640	1800		ug/Kg		110	55 - 120
Phenanthrene	1640	2200	*+	ug/Kg		134	60 - 120
Pyrene	1640	2220	*+	ug/Kg		135	61 - 133

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	115		60 - 120
Nitrobenzene-d5 (Surr)	112		53 - 120
p-Terphenyl-d14 (Surr)	141	S1+	79 - 130

# QC Sample Results

Client: Benchmark Env. Eng. & Science, PLLC  
 Project/Site: Benchmark - 2101 Kenmore Ave

Job ID: 480-187122-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-590169/1-A

Matrix: Solid

Analysis Batch: 590399

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 590169

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	ND		170	24	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
Acenaphthylene	ND		170	22	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
Anthracene	ND		170	41	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
Benzo[a]anthracene	ND		170	17	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
Benzo[a]pyrene	ND		170	24	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
Benzo[b]fluoranthene	ND		170	26	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
Benzo[g,h,i]perylene	ND		170	18	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
Benzo[k]fluoranthene	ND		170	22	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
Chrysene	ND		170	37	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
Dibenz(a,h)anthracene	ND		170	29	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
Fluoranthene	ND		170	18	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
Fluorene	ND		170	20	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
Indeno[1,2,3-cd]pyrene	ND		170	21	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
Naphthalene	ND		170	22	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
Phenanthrene	ND		170	24	ug/Kg		07/23/21 08:06	07/26/21 12:12	1
Pyrene	ND		170	20	ug/Kg		07/23/21 08:06	07/26/21 12:12	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorobiphenyl	107		60 - 120	07/23/21 08:06	07/26/21 12:12	1
Nitrobenzene-d5 (Surr)	98		53 - 120	07/23/21 08:06	07/26/21 12:12	1
p-Terphenyl-d14 (Surr)	118		79 - 130	07/23/21 08:06	07/26/21 12:12	1

Lab Sample ID: LCS 480-590169/2-A

Matrix: Solid

Analysis Batch: 590399

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 590169

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Acenaphthene	1630	1660		ug/Kg		102	62 - 120
Acenaphthylene	1630	1730		ug/Kg		106	58 - 121
Anthracene	1630	1820		ug/Kg		112	62 - 120
Benzo[a]anthracene	1630	1850		ug/Kg		114	65 - 120
Benzo[a]pyrene	1630	1760		ug/Kg		108	64 - 120
Benzo[b]fluoranthene	1630	1890		ug/Kg		116	64 - 120
Benzo[g,h,i]perylene	1630	1780		ug/Kg		110	45 - 145
Benzo[k]fluoranthene	1630	1800		ug/Kg		110	65 - 120
Chrysene	1630	1790		ug/Kg		110	64 - 120
Dibenz(a,h)anthracene	1630	1890		ug/Kg		116	54 - 132
Fluoranthene	1630	1720		ug/Kg		106	62 - 120
Fluorene	1630	1700		ug/Kg		105	63 - 120
Indeno[1,2,3-cd]pyrene	1630	1760		ug/Kg		108	56 - 134
Naphthalene	1630	1520		ug/Kg		93	55 - 120
Phenanthrene	1630	1810		ug/Kg		112	60 - 120
Pyrene	1630	1830		ug/Kg		112	61 - 133

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	99		60 - 120
Nitrobenzene-d5 (Surr)	93		53 - 120
p-Terphenyl-d14 (Surr)	106		79 - 130

Eurofins TestAmerica, Buffalo

# QC Sample Results

Client: Benchmark Env. Eng. & Science, PLLC  
 Project/Site: Benchmark - 2101 Kenmore Ave

Job ID: 480-187122-1

## Method: 6010C - Metals (ICP)

**Lab Sample ID: MB 480-589173/1-A**  
**Matrix: Solid**  
**Analysis Batch: 589751**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 589173**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	ND		1.9		mg/Kg		07/15/21 12:10	07/20/21 13:22	1
Barium	ND	^6+	0.47		mg/Kg		07/15/21 12:10	07/20/21 13:22	1
Cadmium	ND		0.19		mg/Kg		07/15/21 12:10	07/20/21 13:22	1
Chromium	ND		0.47		mg/Kg		07/15/21 12:10	07/20/21 13:22	1
Lead	ND		0.95		mg/Kg		07/15/21 12:10	07/20/21 13:22	1
Selenium	ND		3.8		mg/Kg		07/15/21 12:10	07/20/21 13:22	1
Silver	ND		0.57		mg/Kg		07/15/21 12:10	07/20/21 13:22	1

**Lab Sample ID: LCSSRM 480-589173/2-A**  
**Matrix: Solid**  
**Analysis Batch: 589751**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 589173**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits	
							Lower	Upper
Arsenic	162	132.3		mg/Kg		81.7	70.4 - 130.2	
Barium	138	116.1	^6+	mg/Kg		84.2	74.6 - 124.6	
Cadmium	135	121.4		mg/Kg		89.9	74.8 - 124.4	
Chromium	117	103.0		mg/Kg		88.1	70.1 - 129.9	
Lead	77.6	70.65		mg/Kg		91.0	68.8 - 131.4	
Selenium	172	145.1		mg/Kg		84.3	68.0 - 132.6	
Silver	24.7	20.28		mg/Kg		82.1	67.2 - 133.2	

**Lab Sample ID: 480-187122-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 589869**

**Client Sample ID: SB-C 0.5-1.5 ft**  
**Prep Type: Total/NA**  
**Prep Batch: 589173**

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec. Limits	
	Result	Qualifier		Result	Qualifier				Lower	Upper
Arsenic	11.9		45.2	55.00		mg/Kg	☼	95	75 - 125	
Barium	35.3	^6+	45.2	88.87	^6+	mg/Kg	☼	118	75 - 125	
Cadmium	ND		45.2	43.40		mg/Kg	☼	95	75 - 125	
Chromium	23.3	F1	45.2	55.31	F1	mg/Kg	☼	71	75 - 125	
Lead	119	F1	45.2	196.6	F1	mg/Kg	☼	172	75 - 125	
Selenium	ND		45.2	41.69		mg/Kg	☼	92	75 - 125	
Silver	ND		11.3	11.16		mg/Kg	☼	97	75 - 125	

**Lab Sample ID: 480-187122-1 MSD**  
**Matrix: Solid**  
**Analysis Batch: 589869**

**Client Sample ID: SB-C 0.5-1.5 ft**  
**Prep Type: Total/NA**  
**Prep Batch: 589173**

Analyte	Sample	Sample	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec. Limits		RPD	Limit
	Result	Qualifier		Result	Qualifier				Lower	Upper		
Arsenic	11.9		43.4	57.63		mg/Kg	☼	106	75 - 125	5	20	
Barium	35.3	^6+	43.4	87.31	^6+	mg/Kg	☼	120	75 - 125	2	20	
Cadmium	ND		43.4	42.66		mg/Kg	☼	98	75 - 125	2	20	
Chromium	23.3	F1	43.4	57.66		mg/Kg	☼	79	75 - 125	4	20	
Lead	119	F1	43.4	228.7	F1	mg/Kg	☼	253	75 - 125	15	20	

Eurofins TestAmerica, Buffalo

# QC Sample Results

Client: Benchmark Env. Eng. & Science, PLLC  
 Project/Site: Benchmark - 2101 Kenmore Ave

Job ID: 480-187122-1

## Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 480-187122-1 MSD  
 Matrix: Solid  
 Analysis Batch: 589869

Client Sample ID: SB-C 0.5-1.5 ft  
 Prep Type: Total/NA  
 Prep Batch: 589173

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Selenium	ND		43.4	41.37		mg/Kg	⊛	95	75 - 125	1	20
Silver	ND		10.8	10.81		mg/Kg	⊛	98	75 - 125	3	20

## Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-588969/1-A  
 Matrix: Solid  
 Analysis Batch: 589092

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 588969

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.019		mg/Kg		07/14/21 14:08	07/14/21 16:27	1

Lab Sample ID: LCDSRM 480-588969/21-A ^10  
 Matrix: Solid  
 Analysis Batch: 589092

Client Sample ID: Lab Control Sample Dup  
 Prep Type: Total/NA  
 Prep Batch: 588969

Analyte	Spike Added	LCDSRM Result	LCDSRM Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	27.2	24.22		mg/Kg		89.1	59.9 - 140.	2	20
							1		

Lab Sample ID: LCSSRM 480-588969/2-A ^10  
 Matrix: Solid  
 Analysis Batch: 589092

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 588969

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	27.2	23.78		mg/Kg		87.4	59.9 - 140.	1	20
							1		

# QC Association Summary

Client: Benchmark Env. Eng. & Science, PLLC  
 Project/Site: Benchmark - 2101 Kenmore Ave

Job ID: 480-187122-1

## GC/MS VOA

### Analysis Batch: 589127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-187122-3	SB-J 2-2.5 ft	Total/NA	Solid	8260C	589194
MB 480-589194/2-A	Method Blank	Total/NA	Solid	8260C	589194
LCS 480-589194/1-A	Lab Control Sample	Total/NA	Solid	8260C	589194

### Prep Batch: 589194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-187122-3	SB-J 2-2.5 ft	Total/NA	Solid	5035A_L	
MB 480-589194/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-589194/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	

## GC/MS Semi VOA

### Prep Batch: 589139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-187122-1	SB-C 0.5-1.5 ft	Total/NA	Solid	3550C	
480-187122-5	SB-I 0.25-2 ft	Total/NA	Solid	3550C	
MB 480-589139/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-589139/2-A	Lab Control Sample	Total/NA	Solid	3550C	

### Analysis Batch: 589926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-187122-1	SB-C 0.5-1.5 ft	Total/NA	Solid	8270D	589139
480-187122-5	SB-I 0.25-2 ft	Total/NA	Solid	8270D	589139
MB 480-589139/1-A	Method Blank	Total/NA	Solid	8270D	589139
LCS 480-589139/2-A	Lab Control Sample	Total/NA	Solid	8270D	589139

### Prep Batch: 590169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-187122-2 - DL	SB-D 0.5-2 ft	Total/NA	Solid	3550C	
480-187122-2	SB-D 0.5-2 ft	Total/NA	Solid	3550C	
480-187122-3 - DL	SB-J 2-2.5 ft	Total/NA	Solid	3550C	
480-187122-3	SB-J 2-2.5 ft	Total/NA	Solid	3550C	
480-187122-4	SB-H 0.5-1.5 ft	Total/NA	Solid	3550C	
MB 480-590169/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-590169/2-A	Lab Control Sample	Total/NA	Solid	3550C	

### Analysis Batch: 590399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-187122-2	SB-D 0.5-2 ft	Total/NA	Solid	8270D	590169
480-187122-3	SB-J 2-2.5 ft	Total/NA	Solid	8270D	590169
480-187122-4	SB-H 0.5-1.5 ft	Total/NA	Solid	8270D	590169
MB 480-590169/1-A	Method Blank	Total/NA	Solid	8270D	590169
LCS 480-590169/2-A	Lab Control Sample	Total/NA	Solid	8270D	590169

### Analysis Batch: 590550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-187122-2 - DL	SB-D 0.5-2 ft	Total/NA	Solid	8270D	590169
480-187122-3 - DL	SB-J 2-2.5 ft	Total/NA	Solid	8270D	590169

# QC Association Summary

Client: Benchmark Env. Eng. & Science, PLLC  
 Project/Site: Benchmark - 2101 Kenmore Ave

Job ID: 480-187122-1

## Metals

### Prep Batch: 588969

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-187122-1	SB-C 0.5-1.5 ft	Total/NA	Solid	7471B	
480-187122-2	SB-D 0.5-2 ft	Total/NA	Solid	7471B	
480-187122-4	SB-H 0.5-1.5 ft	Total/NA	Solid	7471B	
480-187122-5	SB-I 0.25-2 ft	Total/NA	Solid	7471B	
MB 480-588969/1-A	Method Blank	Total/NA	Solid	7471B	
LCDSRM 480-588969/21-A ^10	Lab Control Sample Dup	Total/NA	Solid	7471B	
LCSSRM 480-588969/2-A ^10	Lab Control Sample	Total/NA	Solid	7471B	

### Analysis Batch: 589092

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-187122-1	SB-C 0.5-1.5 ft	Total/NA	Solid	7471B	588969
480-187122-2	SB-D 0.5-2 ft	Total/NA	Solid	7471B	588969
480-187122-4	SB-H 0.5-1.5 ft	Total/NA	Solid	7471B	588969
480-187122-5	SB-I 0.25-2 ft	Total/NA	Solid	7471B	588969
MB 480-588969/1-A	Method Blank	Total/NA	Solid	7471B	588969
LCDSRM 480-588969/21-A ^10	Lab Control Sample Dup	Total/NA	Solid	7471B	588969
LCSSRM 480-588969/2-A ^10	Lab Control Sample	Total/NA	Solid	7471B	588969

### Prep Batch: 589173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-187122-1	SB-C 0.5-1.5 ft	Total/NA	Solid	3050B	
480-187122-2	SB-D 0.5-2 ft	Total/NA	Solid	3050B	
480-187122-4	SB-H 0.5-1.5 ft	Total/NA	Solid	3050B	
480-187122-5	SB-I 0.25-2 ft	Total/NA	Solid	3050B	
MB 480-589173/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-589173/2-A	Lab Control Sample	Total/NA	Solid	3050B	
480-187122-1 MS	SB-C 0.5-1.5 ft	Total/NA	Solid	3050B	
480-187122-1 MSD	SB-C 0.5-1.5 ft	Total/NA	Solid	3050B	

### Analysis Batch: 589751

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-589173/1-A	Method Blank	Total/NA	Solid	6010C	589173
LCSSRM 480-589173/2-A	Lab Control Sample	Total/NA	Solid	6010C	589173

### Analysis Batch: 589869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-187122-1	SB-C 0.5-1.5 ft	Total/NA	Solid	6010C	589173
480-187122-2	SB-D 0.5-2 ft	Total/NA	Solid	6010C	589173
480-187122-4	SB-H 0.5-1.5 ft	Total/NA	Solid	6010C	589173
480-187122-5	SB-I 0.25-2 ft	Total/NA	Solid	6010C	589173
480-187122-1 MS	SB-C 0.5-1.5 ft	Total/NA	Solid	6010C	589173
480-187122-1 MSD	SB-C 0.5-1.5 ft	Total/NA	Solid	6010C	589173

### Analysis Batch: 590055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-187122-4	SB-H 0.5-1.5 ft	Total/NA	Solid	6010C	589173
480-187122-5	SB-I 0.25-2 ft	Total/NA	Solid	6010C	589173

# QC Association Summary

Client: Benchmark Env. Eng. & Science, PLLC  
Project/Site: Benchmark - 2101 Kenmore Ave

Job ID: 480-187122-1

## General Chemistry

### Analysis Batch: 588936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-187122-1	SB-C 0.5-1.5 ft	Total/NA	Solid	Moisture	
480-187122-2	SB-D 0.5-2 ft	Total/NA	Solid	Moisture	
480-187122-3	SB-J 2-2.5 ft	Total/NA	Solid	Moisture	
480-187122-4	SB-H 0.5-1.5 ft	Total/NA	Solid	Moisture	
480-187122-5	SB-I 0.25-2 ft	Total/NA	Solid	Moisture	

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# Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC  
 Project/Site: Benchmark - 2101 Kenmore Ave

Job ID: 480-187122-1

**Client Sample ID: SB-C 0.5-1.5 ft**

**Lab Sample ID: 480-187122-1**

Date Collected: 07/12/21 10:00

Matrix: Solid

Date Received: 07/13/21 13:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	588936	07/13/21 16:06	JMM	TAL BUF

**Client Sample ID: SB-C 0.5-1.5 ft**

**Lab Sample ID: 480-187122-1**

Date Collected: 07/12/21 10:00

Matrix: Solid

Date Received: 07/13/21 13:40

Percent Solids: 90.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			589139	07/15/21 08:23	VXF	TAL BUF
Total/NA	Analysis	8270D		10	589926	07/21/21 21:48	PJQ	TAL BUF
Total/NA	Prep	3050B			589173	07/15/21 12:10	KMP	TAL BUF
Total/NA	Analysis	6010C		1	589869	07/20/21 14:04	LMH	TAL BUF
Total/NA	Prep	7471B			588969	07/14/21 14:08	BMB	TAL BUF
Total/NA	Analysis	7471B		1	589092	07/14/21 16:49	BMB	TAL BUF

**Client Sample ID: SB-D 0.5-2 ft**

**Lab Sample ID: 480-187122-2**

Date Collected: 07/12/21 10:30

Matrix: Solid

Date Received: 07/13/21 13:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	588936	07/13/21 16:06	JMM	TAL BUF

**Client Sample ID: SB-D 0.5-2 ft**

**Lab Sample ID: 480-187122-2**

Date Collected: 07/12/21 10:30

Matrix: Solid

Date Received: 07/13/21 13:40

Percent Solids: 78.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			590169	07/23/21 08:06	VXF	TAL BUF
Total/NA	Analysis	8270D		1	590399	07/26/21 17:51	JMM	TAL BUF
Total/NA	Prep	3550C	DL		590169	07/23/21 08:06	VXF	TAL BUF
Total/NA	Analysis	8270D	DL	5	590550	07/27/21 11:35	JMM	TAL BUF
Total/NA	Prep	3050B			589173	07/15/21 12:10	KMP	TAL BUF
Total/NA	Analysis	6010C		1	589869	07/20/21 14:24	LMH	TAL BUF
Total/NA	Prep	7471B			588969	07/14/21 14:08	BMB	TAL BUF
Total/NA	Analysis	7471B		1	589092	07/14/21 16:53	BMB	TAL BUF

**Client Sample ID: SB-J 2-2.5 ft**

**Lab Sample ID: 480-187122-3**

Date Collected: 07/12/21 14:30

Matrix: Solid

Date Received: 07/13/21 13:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	588936	07/13/21 16:06	JMM	TAL BUF

# Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC  
 Project/Site: Benchmark - 2101 Kenmore Ave

Job ID: 480-187122-1

**Client Sample ID: SB-J 2-2.5 ft**

**Lab Sample ID: 480-187122-3**

Date Collected: 07/12/21 14:30

Matrix: Solid

Date Received: 07/13/21 13:40

Percent Solids: 87.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			589194	07/15/21 10:20	WJD	TAL BUF
Total/NA	Analysis	8260C		1	589127	07/15/21 16:02	WJD	TAL BUF
Total/NA	Prep	3550C			590169	07/23/21 08:06	VXF	TAL BUF
Total/NA	Analysis	8270D		1	590399	07/26/21 18:15	JMM	TAL BUF
Total/NA	Prep	3550C	DL		590169	07/23/21 08:06	VXF	TAL BUF
Total/NA	Analysis	8270D	DL	5	590550	07/27/21 12:00	JMM	TAL BUF

**Client Sample ID: SB-H 0.5-1.5 ft**

**Lab Sample ID: 480-187122-4**

Date Collected: 07/12/21 12:30

Matrix: Solid

Date Received: 07/13/21 13:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	588936	07/13/21 16:06	JMM	TAL BUF

**Client Sample ID: SB-H 0.5-1.5 ft**

**Lab Sample ID: 480-187122-4**

Date Collected: 07/12/21 12:30

Matrix: Solid

Date Received: 07/13/21 13:40

Percent Solids: 73.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			590169	07/23/21 08:06	VXF	TAL BUF
Total/NA	Analysis	8270D		1	590399	07/26/21 18:39	JMM	TAL BUF
Total/NA	Prep	3050B			589173	07/15/21 12:10	KMP	TAL BUF
Total/NA	Analysis	6010C		1	589869	07/20/21 14:39	LMH	TAL BUF
Total/NA	Prep	3050B			589173	07/15/21 12:10	KMP	TAL BUF
Total/NA	Analysis	6010C		5	590055	07/21/21 20:34	AMH	TAL BUF
Total/NA	Prep	7471B			588969	07/14/21 14:08	BMB	TAL BUF
Total/NA	Analysis	7471B		1	589092	07/14/21 16:55	BMB	TAL BUF

**Client Sample ID: SB-I 0.25-2 ft**

**Lab Sample ID: 480-187122-5**

Date Collected: 07/12/21 13:30

Matrix: Solid

Date Received: 07/13/21 13:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	588936	07/13/21 16:06	JMM	TAL BUF

**Client Sample ID: SB-I 0.25-2 ft**

**Lab Sample ID: 480-187122-5**

Date Collected: 07/12/21 13:30

Matrix: Solid

Date Received: 07/13/21 13:40

Percent Solids: 85.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			589139	07/15/21 08:23	VXF	TAL BUF
Total/NA	Analysis	8270D		5	589926	07/21/21 23:22	PJQ	TAL BUF
Total/NA	Prep	3050B			589173	07/15/21 12:10	KMP	TAL BUF
Total/NA	Analysis	6010C		1	589869	07/20/21 14:43	LMH	TAL BUF
Total/NA	Prep	3050B			589173	07/15/21 12:10	KMP	TAL BUF
Total/NA	Analysis	6010C		5	590055	07/21/21 20:38	AMH	TAL BUF

Eurofins TestAmerica, Buffalo

# Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC  
Project/Site: Benchmark - 2101 Kenmore Ave

Job ID: 480-187122-1

**Client Sample ID: SB-I 0.25-2 ft**

**Lab Sample ID: 480-187122-5**

**Date Collected: 07/12/21 13:30**

**Matrix: Solid**

**Date Received: 07/13/21 13:40**

**Percent Solids: 85.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			588969	07/14/21 14:08	BMB	TAL BUF
Total/NA	Analysis	7471B		1	589092	07/14/21 16:57	BMB	TAL BUF

**Laboratory References:**

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

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- 5
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# Accreditation/Certification Summary

Client: Benchmark Env. Eng. & Science, PLLC  
Project/Site: Benchmark - 2101 Kenmore Ave

Job ID: 480-187122-1

## Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
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- 10
- 11
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- 13
- 14
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# Method Summary

Client: Benchmark Env. Eng. & Science, PLLC  
Project/Site: Benchmark - 2101 Kenmore Ave

Job ID: 480-187122-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7471B	Mercury (CVAA)	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF
3050B	Preparation, Metals	SW846	TAL BUF
3550C	Ultrasonic Extraction	SW846	TAL BUF
5035A_L	Closed System Purge and Trap	SW846	TAL BUF
7471B	Preparation, Mercury	SW846	TAL BUF

**Protocol References:**

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600



# Sample Summary

Client: Benchmark Env. Eng. & Science, PLLC  
Project/Site: Benchmark - 2101 Kenmore Ave

Job ID: 480-187122-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-187122-1	SB-C 0.5-1.5 ft	Solid	07/12/21 10:00	07/13/21 13:40
480-187122-2	SB-D 0.5-2 ft	Solid	07/12/21 10:30	07/13/21 13:40
480-187122-3	SB-J 2-2.5 ft	Solid	07/12/21 14:30	07/13/21 13:40
480-187122-4	SB-H 0.5-1.5 ft	Solid	07/12/21 12:30	07/13/21 13:40
480-187122-5	SB-I 0.25-2 ft	Solid	07/12/21 13:30	07/13/21 13:40

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# Chain of Custody Record

<b>Client Information</b>		Sampler: <i>Nick Surini</i>	Lab PM: <i>Brian Fischer</i>	Carrier Tracking No(s):	COC No:				
Client Contact: <i>Benchmark Environmental</i>		Phone: <i>716-713-3937</i>	E-Mail:	State of Origin:	Page:				
Company: <i>BMTK</i>		Accreditations Required (See note):			Job #:				
Address: <i>255B Hamburg TPOC</i>		Due Date Requested: <i>Standard</i>			<b>Analysis Requested</b>  480-187122 Chain of Custody				
City: <i>BUFFALO</i>		TAT Requested (days): <i>Standard</i>							
State, Zip: <i>NY 14218</i>		PO #: <i>B0585-021-001</i>							
Phone: <i>716-713-3937</i>		WO #:							
Email: <i>NMunley@BMTK.com</i>		Project #:							
Project Name:		SSOW#:							
Site: <i>2101 Kenmore ave</i>					<b>Preservation Codes:</b> A - HCL B - NaOH C - Zn Acetate D - Nitric Acid M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)				
<b>Sample Identification</b>		<b>Sample Date</b>	<b>Sample Time</b>	<b>Sample Type</b> (C=Comp, G=grab)	<b>Matrix</b> (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	<b>Field Filtered Sample (Yes or No)</b>	<b>Perform MS/MSD (Yes or No)</b>	<b>Total Number</b>	<b>Special Instructions/Note:</b>
				<b>Preservation Code:</b>					
<i>SB-C 0.5-1.5 FT</i>		<i>7/12/21</i>	<i>10:00</i>	<i>G</i>	<i>S</i>				
<i>SB-D 0.5-2 FT</i>		<i>↓</i>	<i>10:30</i>	<i>G</i>	<i>S</i>				
<i>SB-J 2-2.5 FT</i>		<i>↓</i>	<i>11:30</i>	<i>G</i>	<i>S</i>				
<i>SB-H 0.5-1.5 FT</i>		<i>↓</i>	<i>12:30</i>	<i>G</i>	<i>S</i>				
<i>SB-I 0.25-2 FT</i>		<i>↓</i>	<i>13:30</i>	<i>G</i>	<i>S</i>				

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

<b>Possible Hazard Identification</b>				<b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b>			
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological				<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Deliverable Requested: I, II, III, IV, Other (specify)				Special Instructions/QC Requirements:			
Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:			
Relinquished by: <i>[Signature]</i>		Date/Time: <i>7/13/21 13:40</i>	Company:	Received by: <i>[Signature]</i>		Date/Time: <i>7/13/21 13:40</i>	Company: <i>TA</i>
Relinquished by:		Date/Time:	Company:	Received by:		Date/Time:	Company:
Relinquished by:		Date/Time:	Company:	Received by:		Date/Time:	Company:
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:			Cooler Temperature(s) °C and Other Remarks: <i>33 #1</i>			



## Login Sample Receipt Checklist

Client: Benchmark Env. Eng. & Science, PLLC

Job Number: 480-187122-1

**Login Number: 187122**

**List Source: Eurofins TestAmerica, Buffalo**

**List Number: 1**

**Creator: Sabuda, Brendan D**

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.3 #1 ICE
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

