UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

User ID: XCMROBBINS RAW DATA REPORT

Report Request ID: 1762435 Report Code: AMP350 Jul. 16, 2019

GEOGRAPHIC SELECTIONS

Tribal

Code State County Site Parameter POC City AQCR UAR CBSA CSA Region

42 045 0003 2

PROTOCOL SELECTIONS

Parameter

Classification Parameter Method Duration

ALL 089

	SELECTED OPTIONS			SORT ORDER
	Option Type	Option Value	Orde	r Column
_	RAW DATA EVENTS	INCLUDE EVENTS	1	STATE_CODE
	DAILY STATISTICS	MAXIMUM	2	COUNTY_CODE
	AGENCY ROLE	PQAO	3	SITE ID
	UNITS	STANDARD	4	_
	INCLUDE NULLS	YES	4	PARAMETER_CODE
	MERGE PDF FILES	YES	5	POC

DATE CRITERIA

Start Date End Date

2013 01 01 2017 12 31

APPLICABLE STANDARDS

Standard Description

CO 1-hour 1971

Lead 3-Month 2009

Lead 3-Month PM10 Surrogate 2009

Lead Quarterly 1978

NO2 Annual 1971

Ozone 1-hour 1979

PM10 24-hour 2006

PM25 24-hour 2012

SO2 1-hour 2010

RAW DATA REPORT Jul. 16, 2019

> LATITUDE: 39.8969 LONGITUDE: -75.3539

7440-38-2

CAS NUMBER:

UTM ZONE:

UTM NORTHING:

UTM EASTING:

ELEVATION-MSL: 20

PROBE HEIGHT: 3

SITE ID: 42-045-0003 STATE: (42) Pennsylvania

COUNTY: (045) Delaware CITY: (75648) Swarthmore

(12103) Arsenic (TSP) STP

SITE ADDRESS: Swarthmore College, Hicks Hall, 500 College Ave., Swarthmore, PA

SITE COMMENTS: Toxic Site

MONITOR COMMENTS:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection

MONITOR TYPE: OTHER

COLLECTION AND ANALYSIS METHOD: (089) HI-VOL ICP/MS W/QUARTZ FILTER (0851) Pennsylvania Department Of Environmental Protection DURATION: 24 HOUR

URBAN AND CENTER CITY

(045) METROPOLITAN PHILADELPHIA

URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ

2013

LAND USE: RESIDENTIAL

LOCATION SETTING:

REPORT FOR:

UNITS: Micrograms/cubic meter (25 C)

MIN DETECTABLE:

	MONTH											
Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1 2 3 4 5	.000 ND	.001	.000 ND	.000 ND	.000 ND	.001	AF	AF	.001	.001		
6 7 8 9	.000 ND	.000 ND		.001	.001	.001	.000 ND	.001	.001	.001	.000 ND	.000 ND
11 12 13 14		.001	.000 ND			.001	.000 ND	.000 ND	.001	.001	.000 ND	.001
16 17 18 19 20	.000 ND		.000 ND	.000 ND	.002			.002	.000 ND	.001	AF	.000 ND
21 22 23 24 25 26	.000 ND	.000 ND	.000 ND	.000 ND	.001	.000 ND	.001	.001	AF	.000 ND	AF	.001
27 28 29 30 31	.001	.000 ND	.000 ND	.001	.002	.001	.001			.002	.000 ND	.001
NO.: MAX: MEAN: ANNUA	5 .001 .0002 L OBSERVATIONS	5 .001 .0004 : 56	5 0.000 0.0000 ANNUAL MEAN:	5 .001 .0004 .0006	5 .002 .0012 ANNUAL MAX:	5 .001 .0008 .002	.001 .0005	4 .002 .0010	.001 .0008	6 .002 .0010	3 0.000 0.0000	5 .001 .0006

(045) METROPOLITAN PHILADELPHIA

URBAN AND CENTER CITY

URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ

2014

LAND USE: RESIDENTIAL

LOCATION SETTING:

REPORT FOR:

RAW DATA REPORT Jul. 16, 2019

> LATITUDE: 39.8969 LONGITUDE: -75.3539

7440-38-2

SITE ID: 42-045-0003 STATE: (42) Pennsylvania

COUNTY: (045) Delaware CITY: (75648) Swarthmore

SITE ADDRESS: Swarthmore College, Hicks Hall, 500 College Ave., Swarthmore, PA

SITE COMMENTS: Toxic Site

(12103) Arsenic (TSP) STP

MONITOR COMMENTS:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection

MONITOR TYPE: OTHER

COLLECTION AND ANALYSIS METHOD: (089) HI-VOL ICP/MS W/QUARTZ FILTER (0851) Pennsylvania Department Of Environmental Protection

DURATION: 24 HOUR

UNITS: Micrograms/cubic meter (25 C)

CAS NUMBER:

UTM ZONE:

UTM NORTHING:

UTM EASTING:

ELEVATION-MSL: 20

PROBE HEIGHT: 3

MIN DETECTABLE:

1 2110	(0051) 101	mojivania bepa.	remene or bir	TIOIMENOUI IIOC	0001011						5515	
	MONTH											
Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1											.000 ND	AF
2									.001	.000 ND		
3								.001				
4		AF				AF	AF					
5	.001			AF	.001							
6			AF									
7											.001	.001
8									.001	.000 ND		
9		000 277						.001				
10 11	.001	.000 ND		.001	3.17	AF	AF					
12	.001		AF	.001	AF							
13			Ar								.000 ND	.001
14									.001	.000 ND	1000 112	.001
15								.000 ND				
16		AF				AF	.000 ND					
17	AF			.001	AF							
18			AF									
19											.000 ND	.001
20									.000 ND	.001		
21								.001				
22		AF				AF	.000 ND					
23	.000 ND			.000 ND	.000 ND							
24			AF									
25 26									.000 ND	AF	AF	.000 ND
26								.001	.000 ND	AF		
28		AF				AF	.000 ND	.001				
29	.001			.002 5	.000 ND		.000 112					
30			AF									
31												.001
		1	•		2			-	-			
NO.: MAX:	4	0.000	0	.002	.001	0	3	.001	.001	.001	.001	.001
MEAN:	.001	0.000		.002	.0003		0.000	.0008	.0006	.0003	.0003	.0008
							0.0000	.0000	.0000	.0003	.0003	.0000
ANNUA:	L OBSERVATION	S: 38	ANNUAL MEA	N: .0006	ANNUAL MAX:	.002						

(045) METROPOLITAN PHILADELPHIA

URBAN AND CENTER CITY

URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ

LAND USE: RESIDENTIAL

LOCATION SETTING:

CAS NUMBER:

UTM ZONE:

UTM NORTHING:

UTM EASTING:

ELEVATION-MSL: 20

PROBE HEIGHT: 3

7440-38-2

RAW DATA REPORT Jul. 16, 2019

LATITUDE: 39.8969 SITE ID: 42-045-0003 LONGITUDE: STATE: (42) Pennsylvania -75.3539 COUNTY: (045) Delaware

CITY: (75648) Swarthmore

SITE ADDRESS: Swarthmore College, Hicks Hall, 500 College Ave., Swarthmore, PA

SITE COMMENTS: Toxic Site MONITOR COMMENTS:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection DURATION: 24 HOUR 2015

MONITOR TYPE: OTHER

(12103) Arsenic (TSP) STP

REPORT FOR: UNITS: Micrograms/cubic meter (25 C) COLLECTION AND ANALYSIS METHOD: (089) HI-VOL ICP/MS W/QUARTZ FILTER

(0851) Pennsylvania Department Of Environmental Protection MIN DETECTABLE:

MONTH

Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1			.001									
2											.001	.000 ND
3									.001	.000 ND		
4								.000 ND				
5		.000 ND				.001	.001					
6	AF			.000 ND	.001							
7			.000 ND									0.04
8 9									000 MD	AF	.000 ND	.001
10								.000 ND	.000 ND	Ar		
11		.000 ND				.000 ND	.000 ND	.000 ND				
12	AF	.000 ND		.001	.000 ND	.000 142	.000 ND					
13			.000 ND									
14											.000 ND	.002
15									.001	AF		
16								.001				
17		.000 ND				.000 ND	.000 ND					
18	AF			.001	.001							
19			.000 ND									
20											.000 ND	.000 ND
21									.000 ND	.001		
22								.000 ND				
23 24	0.01	.000 ND		.000 ND	.002 5	.000 ND	.000 ND					
25	.001		.001	.000 ND	.002 5							
26			.001								.001	AF
27									.000 ND	.000 ND	.001	
28								.000 ND				
29						.000 ND	.001					
30	.000 ND			.000 ND	.000 ND							
31			.000 ND									
NO.:	2	4	6	5	5	5	5	5	5	3	5	4
MAX:	.001	0.000	.001	.001	.002	.001	.001	.001	.001	.001	.001	.002
MEAN:	.0005	0.0000	.0003	.0004	.0008	.0002	.0004	.0002	.0004	.0003	.0004	.0008
ANNUA	L OBSERVATIONS	: 54	ANNUAL MEAN:	.0004	ANNUAL MAX:	.002						

RAW DATA REPORT Jul. 16, 2019

> LATITUDE: 39.8969 LONGITUDE: -75.3539

STATE: (42) Pennsylvania

(045) METROPOLITAN PHILADELPHIA URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ

LAND USE: RESIDENTIAL

UTM EASTING: LOCATION SETTING: URBAN AND CENTER CITY ELEVATION-MSL: 20 PROBE HEIGHT: 3

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection

MONITOR TYPE: OTHER

MONITOR COMMENTS:

SITE ID: 42-045-0003

COUNTY: (045) Delaware

CITY: (75648) Swarthmore

SITE COMMENTS: Toxic Site

(12103) Arsenic (TSP) STP

COLLECTION AND ANALYSIS METHOD: (089) HI-VOL ICP/MS W/QUARTZ FILTER

(0851) Pennsylvania Department Of Environmental Protection

SITE ADDRESS: Swarthmore College, Hicks Hall, 500 College Ave., Swarthmore, PA

DURATION: 24 HOUR 2016 REPORT FOR: UNITS: Micrograms/cubic meter (25 C)

MIN DETECTABLE:

CAS NUMBER:

UTM ZONE:

UTM NORTHING:

7440-38-2

	MONTH											
Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	FI		.000 ND									
2											.001	.000 ND
3									.000 ND	.001		
4								.000 ND				
5						AF	.001					
6		.000 ND		.000 ND	AF							
7	.000 ND		.001									
8									202 370	0.01	.000 ND	.000 ND
9 10								.000 ND	.000 ND	.001		
11						.003 5	.000 ND	.000 ND				
12		.000 ND		.000 ND	AF	.003 3	.000 ND					
13	.000 ND	.000 112	.002 5	.000 112	***							
14											.001	.000 ND
15									.000 ND	.003 5		
16								.000 ND				
17						.001	.000 ND					
18		.000 ND		.000 ND	AF							
19	.000 ND		.000 ND									
20											.000 ND	AM
21									.001	.000 ND		
22								.000 ND				
23						.001	.001					
24	000 177	.000 ND	202 277	.000 ND	AF							
25 26	.000 ND		.000 ND								.001	.000 ND
26									.000 ND	.000 ND	.001	.000 ND
28								.000 ND	.000 ND	.000 ND		
29						.000 ND	.001	.000 ND				
30				AV	AF							
31	.001		.000 ND									
NO.:	5	4	6	4	0	4	5	5	5	5	5	4
MAX:	.001	0.000	.002	0.000	U	.003	.001	0.000	.001	.003	.001	0.000
MEAN:	.0002	0.0000	.002	0.0000		.0013	.0006	0.000	.0002	.0010	.0006	0.000
							.0000	3.0000	.0002	.0010		3.0000
ANNUA	L OBSERVATIONS	52	ANNUAL MEAN:	.0004	ANNUAL MAX:	.003						

RAW DATA REPORT Jul. 16, 2019

> LATITUDE: 39.8969 LONGITUDE: -75.3539

> > ELEVATION-MSL: 20

PROBE HEIGHT: 3

7440-38-2

CAS NUMBER:

UTM ZONE:

UTM NORTHING:

UTM EASTING:

SITE ID: 42-045-0003 STATE: (42) Pennsylvania

COUNTY: (045) Delaware CITY: (75648) Swarthmore

(12103) Arsenic (TSP) STP

SITE ADDRESS: Swarthmore College, Hicks Hall, 500 College Ave., Swarthmore, PA

SITE COMMENTS: Toxic Site

MONITOR COMMENTS:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection

MONITOR TYPE: OTHER

COLLECTION AND ANALYSIS METHOD: (089) HI-VOL ICP/MS W/QUARTZ FILTER (0851) Pennsylvania Department Of Environmental Protection

DURATION: 24 HOUR

URBAN AND CENTER CITY

(045) METROPOLITAN PHILADELPHIA

URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ

2017

LAND USE: RESIDENTIAL

LOCATION SETTING:

REPORT FOR:

UNITS: Micrograms/cubic meter (25 C)

MIN DETECTABLE:

	MONTH											
Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	.000 ND			.000 ND	.000 ND							
2			.000 ND									
3												
4									.001			
5								.000 5				
6		.000 ND				.000 ND	AF					
7 8	.000 ND		.000 ND	.000 ND	.000 ND							
9			.000 MD									
10									AF			
11								.000				
12		.000 ND				.000 ND	AM					
13	.000 ND			.000 ND	.001							
14			.000 ND									
15												
16									.001			
17								.001				
18		.002 5				AM	.001					
19	.000 ND		AF	.000 ND	.000 ND							
20 21			AF									
22									.001			
23								.000				
24		.000 ND				.000 ND	FI					
25	.000 ND			.000 ND	.000 ND							
26			.000 ND									
27												
28									.001			
29							0.04	.001				
30	001				000 MD	AM	.001					
31	.001				.000 ND							
NO.:	6	4	4	5	6	3	2	5	4	0	0	0
:XAM	.001	.002	0.000	0.000	.001	0.000	.001	.001	.001			
MEAN:	.0002	.0005	0.0000	0.0000	.0002	0.0000	.0010	.0004	.0010			
ANNUA	L OBSERVATIONS	39	ANNUAL MEAN:	.0003	ANNUAL MAX:	.002						

RAW DATA REPORT Jul. 16, 2019

> CAS NUMBER: LATITUDE: 39.8969 LONGITUDE: -75.3539

> > UTM NORTHING:

UTM EASTING:

ELEVATION-MSL: 20

PROBE HEIGHT: 3

UTM ZONE:

7440-41-7

SITE ID: 42-045-0003 STATE: (42) Pennsylvania

COUNTY: (045) Delaware CITY: (75648) Swarthmore

(12105) Beryllium (TSP) STP

SITE ADDRESS: Swarthmore College, Hicks Hall, 500 College Ave., Swarthmore, PA

SITE COMMENTS: Toxic Site

MONITOR COMMENTS:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection

MONITOR TYPE: OTHER

COLLECTION AND ANALYSIS METHOD: (089) HI-VOL ICP/MS W/QUARTZ FILTER (0851) Pennsylvania Department Of Environmental Protection DURATION: 24 HOUR

URBAN AND CENTER CITY

(045) METROPOLITAN PHILADELPHIA

URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ

2013

LAND USE: RESIDENTIAL

LOCATION SETTING:

REPORT FOR:

UNITS: Nanograms/cubic meter (25 C)

MIN DETECTABLE:

	MONTH											
Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1									.000 ND	.000 ND		
2								AF				
3		.000 ND				.000 ND	AF					
4	.000 ND			.000 ND	.000 ND							
5			.000 ND									
6											.000 ND	.000 ND
7								000 277	.000 ND	.000 ND		
8 9		.000 ND				.000 ND	.000 ND	.000 ND				
10	.000 ND	.000 ND		.000 ND	.000 ND	.000 ND	.000 ND					
11	.000 ND		.000 ND	.000 ND	.000 ND							
12											.000 ND	.000 ND
13									.000 ND	.000 ND		
14								.000 ND				
15		.000 ND				.000 ND	.000 ND					
16	.000 ND			.000 ND	.000 ND							
17			.000 ND									
18											AF	.000 ND
19									.000 ND	.000 ND		
20								.000 ND				
21	000 177	.000 ND		000 270	000 277	.000 ND	.000 ND					
22 23	.000 ND		.000 ND	.000 ND	.000 ND							
24			.000 ND								AF	.000 ND
25									AF	.000 ND	AL .	.000 ND
26								.000 ND				
27		.000 ND				.000 ND	.000 ND					
28	.000 ND			.000 ND	.000 ND							
29			.000 ND									
30											.000 ND	.000 ND
31										.000 ND		
NO.:	5	5	5	5	5	5	4	4	4	6	3	5
MAX:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MEAN:	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
ANNITAT	L OBSERVATIONS	: 56	ANNUAL MEAN:	0.0000	ANNUAL MAX:	0.000						
INVIVORI	2 OLOLINATIONS	. 50	ANNUAL MEAN.	0.0000	THISTE PER	3.000						

RAW DATA REPORT Jul. 16, 2019

LATITUDE: 39.8969 SITE ID: 42-045-0003 POC: 2 STATE: (42) Pennsylvania -75.3539 LONGITUDE:

COUNTY: (045) Delaware CITY: (75648) Swarthmore

(12105) Beryllium (TSP) STP

SITE ADDRESS: Swarthmore College, Hicks Hall, 500 College Ave., Swarthmore, PA

SITE COMMENTS: Toxic Site

MONITOR COMMENTS:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection

MONITOR TYPE: OTHER

COLLECTION AND ANALYSIS METHOD: (089) HI-VOL ICP/MS W/QUARTZ FILTER

POAO: (0851) Pennsylvania Department Of Environmental Protection

DURATION: 24 HOUR REPORT FOR: 2014

URBAN AND CENTER CITY

(045) METROPOLITAN PHILADELPHIA

URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ

LAND USE: RESIDENTIAL

LOCATION SETTING:

MIN DETECTABLE:

CAS NUMBER:

UTM ZONE:

UNITS: Nanograms/cubic meter (25 C)

UTM NORTHING:

UTM EASTING:

ELEVATION-MSL: 20

PROBE HEIGHT: 3

7440-41-7

PQAO:	(0851) Penn	sylvania Depa	rtment Of Envir	onmental Protec	ction						MIN DETE	CTABLE:
	MONTH											
Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1											.000 ND	AF
2									.000 ND	.000 ND		
3								.000 ND				
4		AF				AF	AF					
5	.000 ND			AF	.000 ND							
6			AF									
7											.000 ND	.000 ND
8 9								.000 ND	.000 ND	.000 ND		
10		.000 ND				AF	AF	.000 ND				
11	.000 ND	.000 ND		.000 ND	AF	Ar	Ar					
12			AF									
13											.000 ND	.000 ND
14									.000 ND	.000 ND		
15								.000 ND				
16		AF				AF	.000 ND					
17	AF			.000 ND	AF							
18			AF									
19											.000 ND	.000 ND
20								000 277	.000 ND	.000 ND		
21 22		AF				AF	.000 ND	.000 ND				
23	.000 ND	Ar		.000 ND	.000 ND	Ar	.000 ND					
24			AF									
25											AF	.000 ND
26									.000 ND	AF		
27								.000 ND				
28		AF				AF	.000 ND					
29	.000 ND			.000 ND	.000 ND							
30			AF									
31												.000 ND
NO.:	4	1	0	4	3	0	3	5	5	4	4	5
MAX:	0.000	0.000		0.000	0.000		0.000	0.000	0.000	0.000	0.000	0.000
MEAN:	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
ANNUA	NUAL OBSERVATIONS: 38 ANNUAL MEAN: 0.0000 ANNUAL MAX: 0.000											

RAW DATA REPORT Jul. 16, 2019

LATITUDE: 39.8969 SITE ID: 42-045-0003 LONGITUDE: STATE: (42) Pennsylvania -75.3539 COUNTY: (045) Delaware

CITY: (75648) Swarthmore

SITE ADDRESS: Swarthmore College, Hicks Hall, 500 College Ave., Swarthmore, PA

SITE COMMENTS: Toxic Site

(12105) Beryllium (TSP) STP

MONITOR COMMENTS:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection

MONITOR TYPE: OTHER

COLLECTION AND ANALYSIS METHOD: (089) HI-VOL ICP/MS W/QUARTZ FILTER (0851) Pennsylvania Department Of Environmental Protection URBAN AND CENTER CITY PROBE HEIGHT: 3

(045) METROPOLITAN PHILADELPHIA

URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ

LAND USE: RESIDENTIAL

LOCATION SETTING:

DURATION: 24 HOUR 2015 REPORT FOR:

UNITS: Nanograms/cubic meter (25 C)

CAS NUMBER:

UTM ZONE:

UTM NORTHING:

UTM EASTING:

ELEVATION-MSL: 20

7440-41-7

MIN DETECTABLE:

	MONTH											
Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1			.000 ND									
2											.000 ND	.000 ND
3									.000 ND	.000 ND		
4								.000 ND				
5		.000 ND				.000 ND	.000 ND					
6	AF			.000 ND	.000 ND							
7			.000 ND									
8									000 200	3.17	.000 ND	.000 ND
9 10								.000 ND	.000 ND	AF		
11		.000 ND				.000 ND	.000 ND	.000 D				
12	AF	.000 110		.000 ND	.000 ND	.000 ND	.000 ND					
13			.000 ND	.000 115	.000 1.0							
14											.000 ND	.000 ND
15									.000 ND	AF		
16								.000 ND				
17		.000 ND				.000 ND	.000 ND					
18	AF			.000 ND	.000 ND							
19			.000 ND									
20											.000 ND	.000 ND
21									.000 ND	.000 ND		
22								.000 ND				
23		.000 ND				.000 ND	.000 ND					
24	.000 ND		000	.000 ND	.000 ND							
25 26			.000 ND								.000 ND	AF
26									.000 ND	.000 ND	.000 ND	Ar
28								.000 ND	.000 10	.000 ND		
29						.000 ND	.000 ND	.000 110				
30	.000 ND			.000 ND	.000 ND							
31			.000 ND									
	2	4		-	-	_	-	F	-	2	-	4
NO.: MAX:	0.000	0.000	6 0.000	5 0.000	5 0.000	5 0.000	5 0.000	5 0.000	5 0.000	0.000	5 0.000	0.000
MEAN:	0.000	0.000	0.000	0.0000	0.0000	0.0000	0.000	0.000	0.000	0.000	0.0000	0.0000
							3.0000	3.0000	3.0000	3.0000	0.0000	0.0000
ANNUAI	L OBSERVATIONS:	54	ANNUAL MEAN:	0.0000	ANNUAL MAX:	0.000						

RAW DATA REPORT Jul. 16, 2019

> CAS NUMBER: 7440-41-7 LATITUDE: 39.8969

> > LONGITUDE:

UTM ZONE:

PROBE HEIGHT: 3

-75.3539

SITE ID: 42-045-0003 STATE: (42) Pennsylvania COUNTY: (045) Delaware

(045) METROPOLITAN PHILADELPHIA CITY: (75648) Swarthmore URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ

UTM NORTHING: SITE ADDRESS: Swarthmore College, Hicks Hall, 500 College Ave., Swarthmore, PA LAND USE: RESIDENTIAL UTM EASTING: SITE COMMENTS: Toxic Site LOCATION SETTING: URBAN AND CENTER CITY ELEVATION-MSL: 20

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection

(12105) Beryllium (TSP) STP

MONITOR COMMENTS:

DURATION: 24 HOUR MONITOR TYPE: OTHER 2016 REPORT FOR:

UNITS: Nanograms/cubic meter (25 C) COLLECTION AND ANALYSIS METHOD: (089) HI-VOL ICP/MS W/QUARTZ FILTER

(0851) Pennsylvania Department Of Environmental Protection MIN DETECTABLE:

	MONTH											
Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	FI		.000 ND									
2											.000 ND	.000 ND
3									.000 ND	.000 ND		
4								.000 ND				
5						AF	.000 ND					
6		.000 ND		.000 ND	AF							
7	.000 ND		.000 ND									
8											.000 ND	.000 ND
9									.000 ND	.000 ND		
10								.000 ND				
11						.000 ND	.000 ND					
12	000 177	.000 ND	000 275	.000 ND	AF							
13 14	.000 ND		.000 ND								.000 ND	.000 ND
15									.000 ND	.000 ND	.000 ND	.000 ND
16								.000 ND	.000 ND	.000 ND		
17						.000 ND	.000 ND	.000 ND				
18		.000 ND		.000 ND	AF							
19	.000 ND		.000 ND									
20											.000 ND	AM
21									.000 ND	.000 ND		
22								.000 ND				
23						.000 ND	.000 ND					
24		.000 ND		.000 ND	AF							
25	.000 ND		.000 ND									
26											.000 ND	.000 ND
27									.000 ND	.000 ND		
28								.000 ND				
29						.000 ND	.000 ND					
30	000 177		000 275	AV	AF							
31	.000 ND		.000 ND									
NO.:	5	4	6	4	0	4	5	5	5	5	5	4
MAX:	0.000	0.000	0.000	0.000		0.000	0.000	0.000	0.000	0.000	0.000	0.000
MEAN:	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
ANNUAI	C OBSERVATIONS:	52	ANNUAL MEAN:	0.0000	ANNUAL MAX:	0.000						

RAW DATA REPORT Jul. 16, 2019

LATITUDE: 39.8969 SITE ID: 42-045-0003 STATE: (42) Pennsylvania -75.3539 LONGITUDE: COUNTY: (045) Delaware

CITY: (75648) Swarthmore

SITE ADDRESS: Swarthmore College, Hicks Hall, 500 College Ave., Swarthmore, PA

SITE COMMENTS: Toxic Site

(12105) Beryllium (TSP) STP

MONITOR COMMENTS:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection

MONITOR TYPE: OTHER

COLLECTION AND ANALYSIS METHOD: (089) HI-VOL ICP/MS W/QUARTZ FILTER (0851) Pennsylvania Department Of Environmental Protection

DURATION: 24 HOUR 2017 REPORT FOR:

URBAN AND CENTER CITY

(045) METROPOLITAN PHILADELPHIA

URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ

LAND USE: RESIDENTIAL

LOCATION SETTING:

MIN DETECTABLE:

CAS NUMBER:

UTM ZONE:

UNITS: Nanograms/cubic meter (25 C)

UTM NORTHING:

UTM EASTING:

ELEVATION-MSL: 20

PROBE HEIGHT: 3

7440-41-7

	MONTH											
Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	.000 ND			.000 ND	.000 ND							
2			.000 ND									
3												
4									.000 ND			
5								.000 ND				
6		.000 ND				.000 ND	AF					
7	.000 ND			.000 ND	.000 ND							
8			.000 ND									
9												
10									AF			
11								.000 ND				
12		.000 ND				.000 ND	AM					
13	.000 ND			.000 ND	.000 ND							
14 15			.000 ND									
16									.000 ND			
17								.000 ND	.000 ND			
18		.000 ND				AM	.000 ND	.000 112				
19	.000 ND			.000 ND	.000 ND							
20			AF									
21												
22									.051			
23								.053				
24		.000 ND				.000 ND	FI					
25	.000 ND			.000 ND	.000 ND							
26			.000 ND									
27												
28									.080			
29								.000 ND				
30	000 277				000 177	AM	.000 ND					
31	.000 ND				.000 ND							
NO.:	6	4	4	5	6	3	2	5	4	0	0	0
MAX:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.053	.080			
MEAN:	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	.0106	.0328			
ANNUA	L OBSERVATIONS	: 39	ANNUAL MEAN:	.0047	ANNUAL MAX:	.080						

LAND USE: RESIDENTIAL

LOCATION SETTING:

REPORT FOR:

(045) METROPOLITAN PHILADELPHIA

URBAN AND CENTER CITY

URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ

2013

RAW DATA REPORT Jul. 16, 2019

> LATITUDE: 39.8969

7440-43-9

-75.3539

CAS NUMBER:

LONGITUDE:

UTM NORTHING:

UTM EASTING:

ELEVATION-MSL: 20

PROBE HEIGHT: 3

UTM ZONE:

SITE ID: 42-045-0003 STATE: (42) Pennsylvania

COUNTY: (045) Delaware CITY: (75648) Swarthmore

(12110) Cadmium (TSP) STP

SITE ADDRESS: Swarthmore College, Hicks Hall, 500 College Ave., Swarthmore, PA

SITE COMMENTS: Toxic Site

MONITOR COMMENTS:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection

MONITOR TYPE: OTHER

COLLECTION AND ANALYSIS METHOD: (089) HI-VOL ICP/MS W/QUARTZ FILTER

(0851) Pennsylvania Department Of Environmental Protection

DURATION: 24 HOUR

UNITS: Micrograms/cubic meter (25 C)

MIN DETECTABLE:

	MONTH											
Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1									.000 ND	.000 ND		
2								AF				
3		.000				.000 ND	AF					
4	.000 ND			.000 ND	.001							
5			.000									
6											.000 ND	.000
7									.000	.000 ND		
8								.001				
9		.001 5				.000 ND	.000 ND					
10	.000			.000	.000 ND							
11			.000 ND									
12											.000 ND	.000 ND
13									.001 5	.000		
14								.000 ND				
15	000 177	.000		000 177	200 275	.000	.000 ND					
16 17	.000 ND		.000 ND	.000 ND	.000 ND							
18			.000 ND								AF	.000 ND
19									.000 ND	.000 ND	Ar	.000 ND
20								.000 ND	.000 ND	.000 ND		
21		.000 ND				.000 ND	.000 ND	.000 112				
22	.000			.000 ND	.000 ND							
23			.000 ND									
24											AF	.000
25									AF	.000 ND		
26								.000				
27		.000 ND				.000	.000 ND					
28	.000 ND			.000 ND	.000 ND							
29			.000 ND									
30											.000 ND	.000
31										.000 ND		
NO.:	5	5	5	5	5	5	4	4	4	6	3	5
MAX:	0.000	.001	0.000	0.000	.001	0.000	0.000	.001	.001	0.000	0.000	0.000
MEAN:	0.0000	.0002	0.0000	0.0000	.0002	0.0000	0.0000	.0003	.0003	0.0000	0.0000	0.0000
ANNUAI	OBSERVATIONS:	56	ANNUAL MEAN:	.0001	ANNUAL MAX:	.001						

RAW DATA REPORT Jul. 16, 2019

> CAS NUMBER: LATITUDE: 39.8969 -75.3539 LONGITUDE: UTM ZONE:

> > UTM NORTHING:

UTM EASTING:

UNITS: Micrograms/cubic meter (25 C)

ELEVATION-MSL: 20

PROBE HEIGHT: 3

7440-43-9

SITE ID: 42-045-0003 STATE: (42) Pennsylvania COUNTY: (045) Delaware

CITY: (75648) Swarthmore

(12110) Cadmium (TSP) STP

SITE ADDRESS: Swarthmore College, Hicks Hall, 500 College Ave., Swarthmore, PA

SITE COMMENTS: Toxic Site

MONITOR COMMENTS:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection

MONITOR TYPE: OTHER

COLLECTION AND ANALYSIS METHOD: (089) HI-VOL ICP/MS W/QUARTZ FILTER (0851) Pennsylvania Department Of Environmental Protection

DURATION: 24 HOUR 2014 REPORT FOR:

URBAN AND CENTER CITY

(045) METROPOLITAN PHILADELPHIA

URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ

LAND USE: RESIDENTIAL

LOCATION SETTING:

MIN DETECTABLE:

1 2110	(0051) 1011	mb/ivamia bepa	remerre or bir	TIOIMCIICAI IIOC	2001011							
	MONTH											
Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1											.000 ND	AF
2									.000 ND	.000 ND		
3								.000 ND				
4		AF				AF	AF					
5	.001			AF	.000							
6			AF									
7											.000 ND	.000 ND
8									.000 ND	.000 ND		
9								.000 ND				
10		.000 ND				AF	AF					
11	.000 ND			.000 ND	AF							
12 13			AF								.000 ND	.000 ND
14									.000 ND	.000 ND	.000 ND	.000 ND
15								.000 ND	.000 ND	.000 ND		
16		AF				AF	.000 ND	.000 ND				
17	AF			.000 ND	AF							
18			AF									
19											.000 ND	.000 ND
20									.000 ND	.000 ND		
21								.000 ND				
22		AF				AF	.000 ND					
23	.000			.000 ND	.000 ND							
24			AF									
25											AF	.000 ND
26									.000 ND	AF		
27								.000 ND				
28 29	.000	AF		.001	.000 ND	AF	.000 ND					
30	.000		AF	.001	.000 ND							
31			Ar									.000 ND
31												
NO.:	4	1	0	4	3	0	3	5	5	4	4	5
: XAM	.001	0.000		.001	0.000		0.000	0.000	0.000	0.000	0.000	0.000
MEAN:	.0003	0.0000		.0003	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
ANNUAI	L OBSERVATION	s: 38	ANNUAL MEA	N: .0001	ANNUAL MAX:	.001						

RAW DATA REPORT Jul. 16, 2019

> LATITUDE: 39.8969 -75.3539 LONGITUDE:

7440-43-9

SITE ID: 42-045-0003 STATE: (42) Pennsylvania

COUNTY: (045) Delaware CITY: (75648) Swarthmore

(12110) Cadmium (TSP) STP

SITE ADDRESS: Swarthmore College, Hicks Hall, 500 College Ave., Swarthmore, PA

SITE COMMENTS: Toxic Site

MONITOR COMMENTS:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection

MONITOR TYPE: OTHER

COLLECTION AND ANALYSIS METHOD: (089) HI-VOL ICP/MS W/QUARTZ FILTER (0851) Pennsylvania Department Of Environmental Protection

DURATION: 24 HOUR 2015 REPORT FOR:

URBAN AND CENTER CITY

(045) METROPOLITAN PHILADELPHIA

URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ

LAND USE: RESIDENTIAL

LOCATION SETTING:

UNITS: Micrograms/cubic meter (25 C)

CAS NUMBER:

UTM ZONE:

UTM NORTHING:

UTM EASTING:

ELEVATION-MSL: 20

PROBE HEIGHT: 3

MIN DETECTABLE:

	MONTH											
Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1			.000 ND									
2											.000 ND	.000 ND
3								.000 ND	.000 ND	.000 ND		
4 5		.000 ND				.000 ND	.000 ND	.000 D				
6	AF	.000 ND		.000 ND	.000 ND	.000 ND	.000 142					
7			.000 ND									
8											.000 ND	.000
9									.000 ND	AF		
10								.000 ND				
11		.000 ND				.000 ND	.000 ND					
12	AF		000 175	.000 ND	.001							
13 14			.000 ND								.000 ND	.000
15									.000 ND	AF	.000 ND	.000
16								.000				
17		.000				.000 ND	.000 ND					
18	AF			.000	.000 ND							
19			.000 ND									
20											.000 ND	.000 ND
21								000 177	.000	.000		
22 23		.000				.000 ND	.000 ND	.000 ND				
24	.000 ND	.000		.000 ND	.000 ND	.000 ND	.000 ND					
25			.000 ND									
26											.000 ND	AF
27									.000	.001 5		
28								.000				
29						.000	.000 ND					
30	.000		000	.000 ND	.000 ND							
31			.000									
NO.:	2	4	6	5	5	5	5	5	5	3	5	4
MAX:	0.000	0.000	0.000	0.000	.001	0.000	0.000	0.000	0.000	.001	0.000	0.000
MEAN:	0.0000	0.0000	0.0000	0.0000	.0002	0.0000	0.0000	0.0000	0.0000	.0003	0.0000	0.0000
ANNUAI	C OBSERVATIONS:	54	ANNUAL MEAN:	0.0000	ANNUAL MAX:	.001						

RAW DATA REPORT Jul. 16, 2019

> LATITUDE: 39.8969 -75.3539 LONGITUDE:

7440-43-9

CAS NUMBER:

UTM ZONE:

UTM NORTHING:

UTM EASTING:

ELEVATION-MSL: 20

PROBE HEIGHT: 3

SITE ID: 42-045-0003 STATE: (42) Pennsylvania

COUNTY: (045) Delaware CITY: (75648) Swarthmore

(12110) Cadmium (TSP) STP

SITE ADDRESS: Swarthmore College, Hicks Hall, 500 College Ave., Swarthmore, PA

SITE COMMENTS: Toxic Site

MONITOR COMMENTS:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection

COLLECTION AND ANALYSIS METHOD: (089) HI-VOL ICP/MS W/QUARTZ FILTER (0851) Pennsylvania Department Of Environmental Protection

2016 MONITOR TYPE: OTHER

DURATION: 24 HOUR REPORT FOR: UNITS: Micrograms/cubic meter (25 C)

LAND USE: RESIDENTIAL

LOCATION SETTING:

(045) METROPOLITAN PHILADELPHIA

URBAN AND CENTER CITY

URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ

MIN DETECTABLE:

	MONTH											
Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	FI		.000 ND									
2											.000 ND	.000 ND
3									.000 ND	.000 ND		
4								.000 ND				
5						AF	.000 ND					
6		.000		.000 ND	AF							
7	.000 ND		.001									
8									000 277	000 277	.000 ND	.000 ND
9 10								.000 ND	.000 ND	.000 ND		
11						.000 ND	.000 ND	.000 ND				
12		.000 ND		.000	AF	.000 ND	.000 ND					
13	.000 ND	.000 112	.000	.000	A							
14											.000	.001
15									.000 ND	.001		
16								.000 ND				
17						.001 5	.000 ND					
18		.000		.000 ND	AF							
19	.000 ND		.000 ND									
20											.000 ND	AM
21									.000 ND	.000 ND		
22								.000 ND				
23						.000	.000 ND					
24		.000 ND		.000 ND	AF							
25	.000		.001									0.04
26 27									.000	.000 ND	.000 ND	.001
28								.000	.000	.000 ND		
29						.000 ND	.000 ND	.000				
30				AV	AF	.000 ND	.000 145					
31	.000		.000									
NO.:	5	4	6	4	0	4	5	5	5	5	5	4
MAX:	0.000	0.000	.001	0.000		.001	0.000	0.000	0.000	.001	0.000	.001
MEAN:	0.0000	0.0000	.0003	0.0000		.0003	0.0000	0.0000	0.0000	.0002	0.0000	.0005
ANNUA	L OBSERVATIONS	52	ANNUAL MEAN:	.0001	ANNUAL MAX:	.001						

STATE: (42) Pennsylvania

LAND USE: RESIDENTIAL

LOCATION SETTING:

(045) METROPOLITAN PHILADELPHIA

URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ

RAW DATA REPORT Jul. 16, 2019

LATITUDE: 39.8969 LONGITUDE: -75.3539

7440-43-9

SITE ID: 42-045-0003 POC: 2

COUNTY: (045) Delaware CITY: (75648) Swarthmore

(12110) Cadmium (TSP) STP

SITE ADDRESS: Swarthmore College, Hicks Hall, 500 College Ave., Swarthmore, PA

SITE COMMENTS: Toxic Site

MONITOR COMMENTS:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection

MONITOR TYPE: OTHER

COLLECTION AND ANALYSIS METHOD: (089) HI-VOL ICP/MS W/QUARTZ FILTER PQAO: (0851) Pennsylvania Department Of Environmental Protection

PROBE HEIGHT: 3

URBAN AND CENTER CITY

REPORT FOR: 2017 DURATION: 24 HOUR

UNITS: Micrograms/cubic meter (25 C)

CAS NUMBER:

UTM ZONE:

UTM NORTHING:

UTM EASTING:

ELEVATION-MSL: 20

MIN DETECTABLE:

	MONTH											
Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	.001			.000 ND	.000 ND							
2			.000									
3												
4									.000			
5		000				000 177		.000 ND				
6 7	.000	.000		.000 ND	.000 ND	.000 ND	AF					
8	.000		.000	.000 ND	.000 ND							
9			.000									
10									AF			
11								.000 ND				
12		.000				.000 ND	AM					
13	.000 ND			.000 ND	.000 ND							
14			.000 ND									
15												
16 17								.000 ND	.000			
18		.000				AM	.000 ND	.000 ND				
19	.000	.000		.000 ND	.000 ND	Alti	.000 ND					
20			AF									
21												
22									.000 ND			
23								.000 ND				
24		.000 ND				.000 ND	FI					
25	.000 ND			.000 ND	.000 ND							
26 27			.000 ND									
28									.000			
29								.000 ND	.000			
30						AM	.000 ND					
31	.000				.000 ND							
NO.:	6	4	4	5	6	3	2	5	4	0	0	0
MAX:	.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	· ·	0	Ü
MEAN:	.0002	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			
	L OBSERVATIONS		ANNUAL MEAN:	0.0000	ANNUAL MAX:	.001						

(045) METROPOLITAN PHILADELPHIA

URBAN AND CENTER CITY

URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ

LAND USE: RESIDENTIAL

LOCATION SETTING:

Jul. 16, 2019

LATITUDE: 39.8969 -75.3539 LONGITUDE:

7440-47-3

CAS NUMBER:

UTM ZONE:

UTM NORTHING:

UTM EASTING:

ELEVATION-MSL: 20

PROBE HEIGHT: 3

SITE ID: 42-045-0003 STATE: (42) Pennsylvania

COUNTY: (045) Delaware CITY: (75648) Swarthmore

(12112) Chromium (TSP) STP

SITE ADDRESS: Swarthmore College, Hicks Hall, 500 College Ave., Swarthmore, PA

SITE COMMENTS: Toxic Site

MONITOR COMMENTS:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection

MONITOR TYPE: OTHER

COLLECTION AND ANALYSIS METHOD: (089) HI-VOL ICP/MS W/QUARTZ FILTER (0851) Pennsylvania Department Of Environmental Protection

DURATION: 24 HOUR 2013 REPORT FOR:

UNITS: Micrograms/cubic meter (25 C)

MIN DETECTABLE:

	MONTH											
Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1									.000 ND	.000 ND		
2								AF				
3		.000 ND				.000 ND	AF					
4	.000 ND			.000 ND	.000 ND							
5			.000 ND									
6											.000 ND	.000 ND
7									.000 ND	.000 ND		
8								.007				
9		.000 ND				.000 ND	.000 ND					
10	.000 ND			.000 ND	.000 ND							
11			.000 ND									
12											.000 ND	.025
13									.000 ND	.000 ND		
14								.000 ND				
15	000 277	.000 ND		000 270	000 175	.000 ND	.000 ND					
16 17	.000 ND		.000 ND	.000 ND	.000 ND							
18			.000 ND								AF	.000 ND
19									.000 ND	.000 ND	AL	.000 ND
20								.000 ND	.000 142	.000 ND		
21		.000 ND				.000 ND	.000 ND	.000 112				
22	.000 ND			.000 ND	.000 ND							
23			.000 ND									
24											AF	.000 ND
25									AF	.000 ND		
26								.000 ND				
27		.000 ND				.000 ND	.000 ND					
28	.000 ND			.000 ND	.000 ND							
29			.000 ND									
30											.000 ND	.000 ND
31										.000 ND		
NO.:	5	5	5	5	5	5	4	4	4	6	3	5
MAX:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.007	0.000	0.000	0.000	.025
MEAN:	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	.0018	0.0000	0.0000	0.0000	.0050
ANNUAI	L OBSERVATIONS:	56	ANNUAL MEAN:	.0006	ANNUAL MAX:	.025						

Jul. 16, 2019

LATITUDE: 39.8969 -75.3539 LONGITUDE:

CAS NUMBER:

UTM ZONE:

UTM NORTHING:

UTM EASTING:

ELEVATION-MSL: 20

PROBE HEIGHT: 3

7440-47-3

STATE: (42) Pennsylvania

(045) METROPOLITAN PHILADELPHIA URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ

LAND USE: RESIDENTIAL

LOCATION SETTING: URBAN AND CENTER CITY

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection DURATION: 24 HOUR 2014

MONITOR TYPE: OTHER REPORT FOR:

UNITS: Micrograms/cubic meter (25 C) COLLECTION AND ANALYSIS METHOD: (089) HI-VOL ICP/MS W/QUARTZ FILTER

(0851) Pennsylvania Department Of Environmental Protection MIN DETECTABLE:

	MONTH											
Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1											.000 ND	AF
2									.000 ND	.000 ND		
3								.000 ND				
4		AF				AF	AF					
5	.000 ND			AF	.000 ND							
6			AF									
7											.000 ND	.000 ND
8									.000 ND	.000 ND		
9								.000 ND				
10		.000 ND				AF	AF					
11 12	.000 ND		AF	.000 ND	AF							
13			AF								.000 ND	.000 ND
14									.000 ND	.000 ND	.000 ND	.000 ND
15								.000 ND	.000 112	.000 112		
16		AF				AF	.000 ND					
17	AF			.000 ND	AF							
18			AF									
19											.000 ND	.000 ND
20									.000 ND	.000 ND		
21								.000 ND				
22		AF				AF	.000 ND					
23	.000 ND			.000 ND	.000 ND							
24			AF									
25 26									.000 ND	AF	AF	.000 ND
26								.000 ND	.000 ND	AF		
28		AF				AF	.000 ND	.000 ND				
29	.000 ND			.000 ND	.000 ND	***	.000 112					
30			AF									
31												.000 ND
NO.:	4	1	0	4	3	0	3	5	5	4	4	5
MAX:	0.000	0.000	0	0.000	0.000	U	0.000	0.000	0.000	0.000	0.000	0.000
MEAN:	0.0000	0.0000		0.0000	0.0000		0.000	0.000	0.000	0.0000	0.0000	0.000
							3.0000	3.0000	3.0000	3.0000	3.0000	
ANNUA:	L OBSERVATIONS:	38	ANNUAL MEAN:	0.0000	ANNUAL MAX:	0.000						

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk ("*") indicates that the region has reviewed the value and does not concur with the qualifier.

(12112) Chromium (TSP) STP

SITE ADDRESS: Swarthmore College, Hicks Hall, 500 College Ave., Swarthmore, PA

SITE ID: 42-045-0003

MONITOR COMMENTS:

COUNTY: (045) Delaware

CITY: (75648) Swarthmore

SITE COMMENTS: Toxic Site

(045) METROPOLITAN PHILADELPHIA

URBAN AND CENTER CITY

URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ

LAND USE: RESIDENTIAL

LOCATION SETTING:

RAW DATA REPORT Jul. 16, 2019

> LATITUDE: 39.8969 -75.3539 LONGITUDE:

7440-47-3

SITE ID: 42-045-0003 STATE: (42) Pennsylvania

COUNTY: (045) Delaware CITY: (75648) Swarthmore

(12112) Chromium (TSP) STP

SITE ADDRESS: Swarthmore College, Hicks Hall, 500 College Ave., Swarthmore, PA

SITE COMMENTS: Toxic Site

MONITOR COMMENTS:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection

MONITOR TYPE: OTHER

COLLECTION AND ANALYSIS METHOD: (089) HI-VOL ICP/MS W/QUARTZ FILTER (0851) Pennsylvania Department Of Environmental Protection

DURATION: 24 HOUR 2015 REPORT FOR:

UNITS: Micrograms/cubic meter (25 C)

CAS NUMBER:

UTM ZONE:

UTM NORTHING:

UTM EASTING:

ELEVATION-MSL: 20

PROBE HEIGHT: 3

MIN DETECTABLE:

	MONTH											
Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1 2 3 4			.000 ND					.000 ND				
5 6 7 8 9	AF	.000 ND		.000 ND	AF	.000 ND	.000 ND					
10 11 12	AF	.000 ND		.000 ND								
13 14 15 16			.000 ND					.000 ND	.000 ND	AF	.000 ND	.000 ND
17 18 19 20	AF	.000 ND				.000 ND	.000 ND					
21 22 23 24 25	.000 ND	.000 ND	.000 ND	.000 ND	.000 ND	.000 ND	.000 ND	.000 ND	.000 ND	.000 ND		
26 27 28 29			.000 ND			.000 ND	AF					
30 31	.000 ND		.000 ND	.000 ND	.000 ND							
NO.: MAX: MEAN:	0.000 0.0000	4 0.000 0.0000	6 0.000 0.0000	5 0.000 0.0000	5 0.000 0.0000	5 0.000 0.0000	5 0.000 0.0000	5 0.000 0.0000	5 0.000 0.0000	3 0.000 0.0000	5 0.000 0.0000	4 0.000 0.0000
ANNUAI	OBSERVATIONS:	54	ANNUAL MEAN:	0.0000	ANNUAL MAX:	0.000						

(045) METROPOLITAN PHILADELPHIA

URBAN AND CENTER CITY

URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ

LAND USE: RESIDENTIAL

LOCATION SETTING:

RAW DATA REPORT Jul. 16, 2019

> LATITUDE: 39.8969 -75.3539 LONGITUDE:

7440-47-3

CAS NUMBER:

UTM ZONE:

UTM NORTHING:

UTM EASTING:

ELEVATION-MSL: 20

PROBE HEIGHT: 3

SITE ID: 42-045-0003 STATE: (42) Pennsylvania

COUNTY: (045) Delaware CITY: (75648) Swarthmore

(12112) Chromium (TSP) STP

SITE ADDRESS: Swarthmore College, Hicks Hall, 500 College Ave., Swarthmore, PA

SITE COMMENTS: Toxic Site

MONITOR COMMENTS:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection

COLLECTION AND ANALYSIS METHOD: (089) HI-VOL ICP/MS W/QUARTZ FILTER (0851) Pennsylvania Department Of Environmental Protection

2016 MONITOR TYPE: OTHER REPORT FOR:

UNITS: Micrograms/cubic meter (25 C)

MIN DETECTABLE:

DURATION: 24 HOUR

	MONTH											
Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	FI		.000 ND									
2											.000 ND	.000 ND
3									.000 ND	.000 ND		
4								.000 ND				
5						AF	.000 ND					
6		.000 ND		.000 ND	AF							
7	.000 ND		.000 ND									
8											.000 ND	.000 ND
9									.000 ND	.000 ND		
10 11						.000 ND	.000 ND	.000 ND				
12		.000 ND		.000 ND	AF	.000 ND	.000 ND					
13	.000 ND	.000 ND	.000 ND	.000 ND	AF							
14	.000 ND		.000 ND								.000 ND	.000 ND
15									.000 ND	.000 ND		
16								.000 ND				
17						.000 ND	.000 ND					
18		.000 ND		.000 ND	AF							
19	.000 ND		.000 ND									
20											.000 ND	AM
21									.000 ND	.000 ND		
22								.000 ND				
23						.000 ND	.000 ND					
24		.000 ND		.000 ND	AF							
25	.000 ND		.000 ND									
26									000 277	000 277	.000 ND	.000 ND
27 28								.000 ND	.000 ND	.000 ND		
28 29						.000 ND	.000 ND	.000 ND				
30				AV	AF	.000 ND	.000 ND					
31	.000 ND		.000 ND	A.A.	n							
NO.:	5	4	6	4	0	4	5	5	5	5	5	4
MAX:	0.000	0.000	0.000	0.000		0.000	0.000	0.000	0.000	0.000	0.000	0.000
MEAN:	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
ANNUA	L OBSERVATIONS:	52	ANNUAL MEAN:	0.0000	ANNUAL MAX:	0.000						

RAW DATA REPORT Jul. 16, 2019

> LATITUDE: 39.8969 -75.3539 LONGITUDE:

7440-47-3

SITE ID: 42-045-0003 STATE: (42) Pennsylvania

COUNTY: (045) Delaware CITY: (75648) Swarthmore

(12112) Chromium (TSP) STP

SITE ADDRESS: Swarthmore College, Hicks Hall, 500 College Ave., Swarthmore, PA

SITE COMMENTS: Toxic Site

MONITOR COMMENTS:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection

MONITOR TYPE: OTHER

COLLECTION AND ANALYSIS METHOD: (089) HI-VOL ICP/MS W/QUARTZ FILTER (0851) Pennsylvania Department Of Environmental Protection

DURATION: 24 HOUR 2017 REPORT FOR:

URBAN AND CENTER CITY

(045) METROPOLITAN PHILADELPHIA

URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ

LAND USE: RESIDENTIAL

LOCATION SETTING:

UNITS: Micrograms/cubic meter (25 C)

CAS NUMBER:

UTM ZONE:

UTM NORTHING:

UTM EASTING:

ELEVATION-MSL: 20

PROBE HEIGHT: 3

MIN DETECTABLE:

	MONTH											
Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	.000 ND			.025	.027							
2			.000 ND									
3												
4									.028			
5								.023				
6		.000 ND				.025	AF					
7	.000 ND			.030	.022							
8			.000 ND									
9												
10									AF			
11								.026				
12		.000 ND				.027	AM					
13	.000 ND			.029	.024							
14 15			.000 ND									
16									.029			
17								.027	.029			
18		.000 ND				AM	.026	.027				
19	.000 ND			.027	.023							
20			AF									
21												
22									.029			
23								.027				
24		.000 ND				.026	FI					
25	.000 ND			.028	.024							
26			.000 ND									
27												
28									.029			
29								.029				
30						AM	.025					
31	.000 ND				.024							
NO.:	6	4	4	5	6	3	2	5	4	0	0	0
MAX:	0.000	0.000	0.000	.030	.027	.027	.026	.029	.029			
MEAN:	0.0000	0.0000	0.0000	.0278	.0240	.0260	.0255	.0264	.0288			
ANNUA	L OBSERVATIONS	: 39	ANNUAL MEAN:	.0169	ANNUAL MAX:	.030						

RAW DATA REPORT Jul. 16, 2019

> LATITUDE: 39.8969 STATE: (42) Pennsylvania -75.3539 LONGITUDE:

CAS NUMBER:

7439-92-1

(045) METROPOLITAN PHILADELPHIA

UTM ZONE: URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ UTM NORTHING: UTM EASTING:

LAND USE: RESIDENTIAL SITE COMMENTS: Toxic Site LOCATION SETTING: URBAN AND CENTER CITY

ELEVATION-MSL: 20 MONITOR COMMENTS: PROBE HEIGHT: 3 SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection

DURATION: 24 HOUR MONITOR TYPE: OTHER 2013 REPORT FOR:

UNITS: Micrograms/cubic meter (25 C) COLLECTION AND ANALYSIS METHOD: (089) HI-VOL ICP/MS W/QUARTZ FILTER

(0851) Pennsylvania Department Of Environmental Protection MIN DETECTABLE:

	MONTH											
Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1									.0000 ND	.0000 ND		
2								AF				
3		.0000 ND				.0000 ND	AF					
4	.0000 ND			.0000 ND	.0000 ND							
5			.0140 5									
6											.0000 ND	.0000 ND
7									.0000 ND	.0000 ND		
8								.0000 ND				
9		.0060				.0051	.0000 ND					
10	.0000 ND			.0059	.0000 ND							
11			.0000 ND									
12											.0000 ND	.0000 ND
13									.0000 ND	.0075		
14								.0000 ND				
15		.0078				.0000 ND	.0000 ND					
16	.0000 ND			.0000 ND	.0052							
17			.0000 ND									
18											AF	.0076
19									.0000 ND	.0078		
20								.0000 ND				
21		.0000 ND				.0000 ND	.0000 ND					
22	.0000 ND			.0000 ND	.0000 ND							
23			.0000 ND									
24											AF	.0000 ND
25									AF	.0000 ND		
26								.0000 ND				
27		.0000 ND				.0079	.0056					
28	.0000 ND			.0000 ND	.0000 ND							
29			.0000 ND									
30											.0000 ND	.0000 ND
31										.0000 ND		
NO.:	5	5	5	5	5	5	4	4	4	6	3	5
MAX:	0.0000	.0078	.0140	.0059	.0052	.0079	.0056	0.0000	0.0000	.0078	0.0000	.0076
MEAN:	0.00000	.00276	.00280	.00118	.00104	.00260	.00140	0.00000	0.00000	.00255	0.00000	.00152
ANNUAT	OBSERVATIONS:	56	ANNUAL MEAN:	.00144	ANNUAL MAX:	.0140						
		30	ANNOAD PIEMN	.00111		. 31 10						

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk ("*") indicates that the region has reviewed the value and does not concur with the qualifier.

(12128) Lead (TSP) STP

POC: 2

SITE ADDRESS: Swarthmore College, Hicks Hall, 500 College Ave., Swarthmore, PA

SITE ID: 42-045-0003

COUNTY: (045) Delaware

CITY: (75648) Swarthmore

RAW DATA REPORT Jul. 16, 2019

> LATITUDE: 39.8969 LONGITUDE: STATE: (42) Pennsylvania -75.3539

CAS NUMBER:

UTM ZONE:

PROBE HEIGHT: 3

7439-92-1

COUNTY: (045) Delaware

(12128) Lead (TSP) STP

POC: 2

SITE ID: 42-045-0003

(045) METROPOLITAN PHILADELPHIA CITY: (75648) Swarthmore

URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ UTM NORTHING: SITE ADDRESS: Swarthmore College, Hicks Hall, 500 College Ave., Swarthmore, PA LAND USE: RESIDENTIAL UTM EASTING: SITE COMMENTS: Toxic Site LOCATION SETTING: URBAN AND CENTER CITY ELEVATION-MSL: 20 MONITOR COMMENTS:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection DURATION: 24 HOUR

2014 MONITOR TYPE: OTHER REPORT FOR:

UNITS: Micrograms/cubic meter (25 C) COLLECTION AND ANALYSIS METHOD: (089) HI-VOL ICP/MS W/QUARTZ FILTER (0851) Pennsylvania Department Of Environmental Protection MIN DETECTABLE:

	MONTH											
Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1											.0000 ND	AF
2									.0000 ND	.0000 ND		
3								.0000 ND				
4		AF				AF	AF					
5	.0062			AF	.0000 ND							
6			AF									
7											.0000 ND	.0000 ND
8									.0000 ND	.0000 ND		
9								.0000 ND				
10	0051	.0000 ND		0.074		AF	AF					
11 12	.0051		AF	.0074	AF							
13			AL.								.0000 ND	.0000 ND
14									.0000 ND	.0000 ND	.0000 115	.0000 112
15								.0000 ND				
16		AF				AF	.0000 ND					
17	AF			.0000 ND	AF							
18			AF									
19											.0000 ND	.0000 ND
20									.0000 ND	.0000 ND		
21								.0000 ND				
22		AF				AF	.0000 ND					
23	.0050			.0000 ND	.0000 ND							
24 25			AF								AF	.0000 ND
26									.0000 ND	AF	AF	.0000 ND
27								.0000 ND	.0000 ND	m		
28		AF				AF	.0000 ND					
29	.0000 ND			.0104	.0000 ND							
30			AF									
31												.0000 ND
NO.:	4	1	0	4	3	0	3	5	5	4	4	5
MAX:	.0062	0.0000	ŭ	.0104	0.0000	3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MEAN:	.00408	0.00000		.00445	0.00000		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	OBSERVATIONS	3: 38	ANNUAL MEAN:	.00090	ANNUAL MAX:	.0104						
		50		.00050		· · · · ·						

RAW DATA REPORT Jul. 16, 2019

> CAS NUMBER: LATITUDE: 39.8969 LONGITUDE: -75.3539

UTM ZONE:

UNITS: Micrograms/cubic meter (25 C)

UTM NORTHING:

UTM EASTING:

ELEVATION-MSL:

PROBE HEIGHT:

7439-92-1

SITE ID: 42-045-0003 POC: 2 STATE: (42) Pennsylvania

COUNTY: (045) Delaware CITY: (75648) Swarthmore

(12128) Lead (TSP) STP

SITE ADDRESS: Swarthmore College, Hicks Hall, 500 College Ave., Swarthmore, PA

SITE COMMENTS: Toxic Site

MONITOR COMMENTS:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection

MONITOR TYPE: OTHER

0.00000

ANNUAL OBSERVATIONS:

MEAN:

0.00000

54

COLLECTION AND ANALYSIS METHOD: (089) HI-VOL ICP/MS W/QUARTZ FILTER

DURATION: 24 HOUR 2015 REPORT FOR:

URBAN AND CENTER CITY

(045) METROPOLITAN PHILADELPHIA

URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ

LAND USE: RESIDENTIAL

LOCATION SETTING:

MIN DETECTABLE: (0851) Pennsylvania Department Of Environmental Protection MONTH Day JANUARY FEBRUARY MARCH APRIL MAY JUNE JULY AUGUST SEPTEMBER OCTOBER NOVEMBER DECEMBER .0055 2 .0000 ND .0000 ND 3 .0000 ND .0910 5 4 .0000 ND 5 .0000 ND .0136 5 .0000 ND 6 AF .0000 ND .0000 ND 7 .0000 ND 8 .0000 ND .0065 9 .0000 ND ΑF 10 .0000 ND 11 .0000 ND .0000 ND .0081 12 AF .0000 ND .0052 13 .0000 ND 14 .0000 ND .0145 5 15 .0000 ND ΑF 16 .0000 ND 17 .0000 ND .0000 ND .0000 ND 18 AF .0000 ND .0054 19 .0000 ND 20 .0000 ND .0000 ND 21 .0000 ND .0052 22 .0000 ND 23 .0000 ND .0000 ND .0000 ND 24 .0000 ND .0000 ND .0051 25 .0052 .0000 ND 26 AF 27 .0000 ND .0000 ND 28 .0000 ND 29 .0000 ND .0000 ND 30 .0000 ND .0000 ND .0000 ND 31 .0000 ND 5 NO.: 2 5 5 3 5 4 0.0000 0.0000 .0055 0.0000 .0054 .0136 .0081 0.0000 0.0000 .0910 0.0000 .0145 MAX:

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk ("*") indicates that the region has reviewed the value and does not concur with the qualifier.

0.00000

.00306

.00314

ANNUAL MAX:

.00272

.00178

ANNUAL MEAN:

.00162

0.00000

0.00000

.03207

0.00000

.00525

AIR QUALITY SYSTEM RAW DATA REPORT

Jul. 16, 2019

LATITUDE: 39.8969 LONGITUDE: -75.3539

7439-92-1

CAS NUMBER:

UTM ZONE:

UNITS: Micrograms/cubic meter (25 C)

UTM NORTHING:

UTM EASTING:

ELEVATION-MSL: 20

PROBE HEIGHT: 3

SITE ID: 42-045-0003 POC: 2 STATE: (42) Pennsylvania

COUNTY: (045) Delaware CITY: (75648) Swarthmore

(12128) Lead (TSP) STP

SITE ADDRESS: Swarthmore College, Hicks Hall, 500 College Ave., Swarthmore, PA

SITE COMMENTS: Toxic Site

MONITOR COMMENTS:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection

MONITOR TYPE: OTHER

(0851) Pennsylvania Department Of Environmental Protection

COLLECTION AND ANALYSIS METHOD: (089) HI-VOL ICP/MS W/QUARTZ FILTER

DURATION: 24 HOUR 2016 REPORT FOR:

URBAN AND CENTER CITY

(045) METROPOLITAN PHILADELPHIA

URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ

LAND USE: RESIDENTIAL

LOCATION SETTING:

MIN DETECTABLE:

1 0110	(0031) 1011			. OIIIII II II II I	.001011							011111111111111111111111111111111111111
	MONTH											
Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	FI		.0000 ND									
2											.0000 ND	.0000 ND
3									.0000 ND	.0000 ND		
4								.0000 ND				
5						AF	.0000 ND					
6		.0000 ND		.0000 ND	AF							
7	.0000 ND		.0000 ND									
8											.0000 ND	.0000 ND
9									.0000 ND	.0000 ND		
10								.0000 ND				
11		.0000 ND		0000 MD	AF	.0000 ND	.0000 ND					
12 13	.0000 ND	.0000 ND	.0000 ND	.0000 ND	Ar							
14	.0000 ND		.0000 ND								.0000 ND	.0000 ND
15									.0000 ND	.0314 5	.0000 ND	.0000 ND
16								.0000 ND	.0000 112	.0311 3		
17						.0000 ND	.0000 ND					
18		.0000 ND		.0000 ND	AF							
19	.0000 ND		.0000 ND									
20											.0000 ND	AM
21									.0000 ND	.0000 ND		
22								.0000 ND				
23						.0271 5	.0000 ND					
24		.0000 ND		.0000 ND	AF							
25	.0102		.0000 ND									
26											.0000 ND	.0000 ND
27									.0000 ND	.0000 ND		
28								.0000 ND				
29						.0000 ND	.0000 ND					
30	0000 277		0000 177	AV	AF							
31	.0000 ND		.0000 ND									
NO.:	5	4	6	4	0	4	5	5	5	5	5	4
MAX:	.0102	0.0000	0.0000	0.0000		.0271	0.0000	0.0000	0.0000	.0314	0.0000	0.0000
MEAN:	.00204	0.00000	0.00000	0.00000		.00678	0.00000	0.00000	0.00000	.00628	0.00000	0.00000
ANNUAI	L OBSERVATIONS	52	ANNUAL MEAN:	.00132	ANNUAL MAX:	.0314						

RAW DATA REPORT Jul. 16, 2019

STATE: (42) Pennsylvania LONGITUDE: 39.8969

CTATE: (42) Pennsylvania LONGITUDE: -75.3539

CAS NUMBER:

ELEVATION-MSL: 20

PROBE HEIGHT: 3

7439-92-1

COUNTY: (045) Delaware

CITY: (75648) Swarthmore

CITY: (75648) Swarthmore

AQCR: (045) METROPOLITAN PHILADELPHIA UTM ZONE:
URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ UTM NORTHING:
LAND USE: RESIDENTIAL UTM EASTING:

SITE COMMENTS: Toxic Site

SITE ADDRESS: Swarthmore College, Hicks Hall, 500 College Ave., Swarthmore, PA

LAND USE: RESIDENTIAL

LOCATION SETTING: URBAN AND CENTER CITY

MONITOR COMMENTS:

SITE ID: 42-045-0003

(12128) Lead (TSP) STP

POC: 2

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection

DURATION: 24 HOUR

MONITOR TYPE: OTHER REPORT FOR: 2017 DURATION: 24 HOU

COLLECTION AND ANALYSIS METHOD: (089) HI-VOL ICP/MS W/QUARTZ FILTER

UNITS: Micrograms/cubic meter (25 C)
PQAO: (0851) Pennsylvania Department Of Environmental Protection

MIN DETECTABLE:

	MONTH											
Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	.0000 ND			.0000 ND	.0000 ND							
2			.0000 ND									
3												
4									.0029			
5								.0020				
6		.0000 ND				.0012	AF					
7	.0049			.0000 ND	.0000 ND							
8			.0000 ND									
9 10									AF			
11								.0031	AF			
12		.0000 ND				.0021	AM	.0031				
13	.0000 ND	.0000 112		.0000 ND	.0000 ND	.0021	Firi					
14			.0000 ND									
15												
16									.0036			
17								.0044				
18		.0057				AM	.0026					
19	.0000 ND			.0000 ND	.0000 ND							
20			AF									
21												
22									.0029			
23								.0021				
24		.0000 ND				.0000 ND	FI					
25	.0000 ND			.0000 ND	.0009							
26 27			.0000 ND									
28									.0040			
29								.0028	.0040			
30						AM	.0031	.0020				
31	.0000 ND				.0009							
				_				-				
NO.: MAX:	.0049	.0057	0.0000	5 0.0000	.0009	.0021	.0031	.0044	.0040	0	0	0
MAX: MEAN:	.0049	.0057	0.0000	0.0000	.0009	.0021	.0031	.00288	.00335			
			5.00000				.00203	.00200	.00333			
ANNUA	OBSERVATIONS	39	ANNUAL MEAN:	.00126	ANNUAL MAX:	.0057						

CAS NUMBER:

7439-96-5

Jul. 16, 2019

LATITUDE: 39.8969 SITE ID: 42-045-0003 POC: 2 LONGITUDE: STATE: (42) Pennsylvania -75.3539 COUNTY: (045) Delaware

(045) METROPOLITAN PHILADELPHIA UTM ZONE: CITY: (75648) Swarthmore URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ UTM NORTHING: SITE ADDRESS: Swarthmore College, Hicks Hall, 500 College Ave., Swarthmore, PA LAND USE: RESIDENTIAL UTM EASTING:

SITE COMMENTS: Toxic Site LOCATION SETTING: URBAN AND CENTER CITY ELEVATION-MSL: 20 MONITOR COMMENTS: PROBE HEIGHT: 3

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection DURATION: 24 HOUR 2013 MONITOR TYPE: OTHER REPORT FOR:

UNITS: Micrograms/cubic meter (25 C) COLLECTION AND ANALYSIS METHOD: (089) HI-VOL ICP/MS W/QUARTZ FILTER

(0851) Pennsylvania Department Of Environmental Protection MIN DETECTABLE:

	MONTH											
Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1									.003	.008		
2								AF				
3		.003				.006	AF					
4	.005			.008	.007							
5			.006									
6											.006	.002
7								0.4.0	.007	.007		
8 9		.003				.005	.009	.010				
10	.005	.003		.018 5	.009	.005	.009					
11	.005		.002	.010 3	.009							
12			.002								.006	.005
13									.004	.011		
14								.004				
15		.019 5				.005	.007					
16	.004			.007	.022 5							
17			.002									
18											AF	.004
19									.008	.005		
20								.007				
21	007	.003		0.05	014 5	.014 5	.006					
22 23	.007		.002	.005	.014 5							
24			.002								AF	.002
25									AF	.006		.002
26								.009				
27		.002				.012	.005					
28	.004			.013 5	.007							
29			.004									
30											.003	.003
31										.007		
NO.:	5	5	5	5	5	5	4	4	4	6	3	5
MAX:	.007	.019	.006	.018	.022	.014	.009	.010	.008	.011	.006	.005
MEAN:	.0050	.0060	.0032	.0102	.0118	.0084	.0068	.0075	.0055	.0073	.0050	.0032
	OBSERVATIONS	: 56	ANTATITAT MEDANT	.0067	ANNUAL MAX:	.022						
MININUMLI	ODDERVAL TONS	. 50	ANNUAL MEAN:	.000/	ANNUAL PIAA.	.022						

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk ("*") indicates that the region has reviewed the value and does not concur with the qualifier.

(12132) Manganese (TSP) STP

CAS NUMBER:

PROBE HEIGHT: 3

7439-96-5

Jul. 16, 2019

LATITUDE: 39.8969 SITE ID: 42-045-0003 POC: 2 LONGITUDE: STATE: (42) Pennsylvania -75.3539 COUNTY: (045) Delaware

(045) METROPOLITAN PHILADELPHIA UTM ZONE: CITY: (75648) Swarthmore URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ UTM NORTHING: SITE ADDRESS: Swarthmore College, Hicks Hall, 500 College Ave., Swarthmore, PA LAND USE: RESIDENTIAL UTM EASTING: SITE COMMENTS: Toxic Site LOCATION SETTING: URBAN AND CENTER CITY ELEVATION-MSL: 20 MONITOR COMMENTS:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection DURATION: 24 HOUR

MONITOR TYPE: OTHER 2014 REPORT FOR:

UNITS: Micrograms/cubic meter (25 C) COLLECTION AND ANALYSIS METHOD: (089) HI-VOL ICP/MS W/QUARTZ FILTER (0851) Pennsylvania Department Of Environmental Protection MIN DETECTABLE:

	MONTH											
Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1											.006	AF
2									.009	.007		
3								.002				
4		AF				AF	AF					
5	.004			AF	.012							
6			AF									
7											.005	.002
8									.006	.005		
9								.004				
10	225	.003				AF	AF					
11 12	.006		AF	.016 5	AF							
13			Ar								.005	.002
14									.002	.002	.005	.002
15								.004	.002	.002		
16		AF				AF	.005					
17	AF			.005	AF							
18			AF									
19											.007	.003
20									.004	.007		
21								.006				
22		AF				AF	.004					
23	.005			.006	.005							
24			AF									0.04
25 26									.005	3.0	AF	.001
26								.010	.005	AF		
28		AF				AF	.003	.010				
29	.006			.030 5	.004		.003					
30			AF									
31												.005
NO.:	4	1	0	4	3	0	3	5	5	4	4	5
NO.: MAX:	.006	.003	U	.030	.012	U	.005	.010	.009	.007	.007	.005
MEAN:	.0053	.0030		.0143	.0070		.0040	.0052	.0052	.0053	.0058	.0026
							.0010	.0052	.0052	.0000	.0050	.0020
ANNUAL	OBSERVATIONS	: 38	ANNUAL MEAN:	.0059	ANNUAL MAX:	.030						

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk ("*") indicates that the region has reviewed the value and does not concur with the qualifier.

(12132) Manganese (TSP) STP

Jul. 16, 2019

LATITUDE: 39.8969 -75.3539 LONGITUDE:

7439-96-5

CAS NUMBER:

UTM ZONE:

UNITS: Micrograms/cubic meter (25 C)

UTM NORTHING:

UTM EASTING:

ELEVATION-MSL: 20

PROBE HEIGHT: 3

SITE ID: 42-045-0003 POC: 2 STATE: (42) Pennsylvania

COUNTY: (045) Delaware CITY: (75648) Swarthmore

(12132) Manganese (TSP) STP

SITE ADDRESS: Swarthmore College, Hicks Hall, 500 College Ave., Swarthmore, PA

SITE COMMENTS: Toxic Site

MONITOR COMMENTS:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection

MONITOR TYPE: OTHER

(0851) Pennsylvania Department Of Environmental Protection

COLLECTION AND ANALYSIS METHOD: (089) HI-VOL ICP/MS W/QUARTZ FILTER

DURATION: 24 HOUR 2015 REPORT FOR:

URBAN AND CENTER CITY

(045) METROPOLITAN PHILADELPHIA

URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ

LAND USE: RESIDENTIAL

LOCATION SETTING:

MIN DETECTABLE:

PQAO.	(0031) 10111	D) I vanila Dep	artment or Envir	ommerred rice	0001011						MIN DEI	
	MONTH											
Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1			.005									
2											.009	.002
3									.014 5	.002		
4		0.05						.006				
5	3.0	.005		.009	.014 5	.005	.003					
6 7	AF		.008	.009	.014 5							
8			.000								.003	.008
9									.011	AF	.005	.000
10								.004				
11		.005				.013	.004					
12	AF			.007	.022 5							
13			.006									
14											.004	.005
15									.008	AF		
16								.005				
17		.003				.005	.004					
18	AF			.008	.008							
19			.006									
20									010	010	.006	.004
21								.004	.010	.012		
22 23		.004				.013	.006	.004				
24	.002	.004		.003	.007	.013	.000					
25	.002		.007	.003	.007							
26			,								.004	AF
27									.005	.003		
28								.008				
29						.004	.008					
30	.004			.013 5	.006							
31			.005									
NO.:	2	4	6	5	5	5	5	5	5	3	5	4
MAX:	.004	.005	.008	.013	.022	.013	.008	.008	.014	.012	.009	.008
MEAN:	.0030	.0043	.0062	.0080	.0114	.0080	.0050	.0054	.0096	.0057	.0052	.0048
ANNUA	L OBSERVATIONS	54	ANNUAL MEAN:	.0066	ANNUAL MAX:	.022						

RAW DATA REPORT Jul. 16, 2019

> LATITUDE: 39.8969 -75.3539 LONGITUDE:

> > ELEVATION-MSL: 20

PROBE HEIGHT: 3

7439-96-5

CAS NUMBER:

UTM ZONE:

SITE ID: 42-045-0003 POC: 2 STATE: (42) Pennsylvania

COUNTY: (045) Delaware (045) METROPOLITAN PHILADELPHIA CITY: (75648) Swarthmore

URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ UTM NORTHING: UTM EASTING:

SITE ADDRESS: Swarthmore College, Hicks Hall, 500 College Ave., Swarthmore, PA LAND USE: RESIDENTIAL

(12132) Manganese (TSP) STP

SITE COMMENTS: Toxic Site LOCATION SETTING: URBAN AND CENTER CITY MONITOR COMMENTS:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection DURATION: 24 HOUR 2016 MONITOR TYPE: OTHER REPORT FOR:

UNITS: Micrograms/cubic meter (25 C) COLLECTION AND ANALYSIS METHOD: (089) HI-VOL ICP/MS W/QUARTZ FILTER

(0851) Pennsylvania Department Of Environmental Protection MIN DETECTABLE:

	MONTH											
Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	FI		.005									
2											.009	.003
3									.007	.003		
4								.004				
5		000		0.05		AF	.003					
6 7	.007	.003	.008	.005	AF							
8	.007		.008								.010	.007
9									.011	.005	.010	.007
10								.009	.011	.003		
11						.014	.004					
12		.004		.004	AF							
13	.005		.005									
14											.013	.006
15									.009	.010		
16								.006				
17						.006	.005					
18		.004		.010	AF							
19	.005		.003								0.05	
20 21									.007	.005	.005	AM
22								.003	.007	.005		
23						.012	.008	.003				
24		.001		.005	AF	.012	.000					
25	.008		.006									
26											.003	.005
27									.004	.010		
28								.006				
29						.005	.005					
30				AV	AF							
31	.003		.007									
NO.:	5	4	6	4	0	4	5	5	5	5	5	4
MAX:	.008	.004	.008	.010		.014	.008	.009	.011	.010	.013	.007
MEAN:	.0056	.0030	.0057	.0060		.0093	.0050	.0056	.0076	.0066	.0080	.0053
ANNUAI	OBSERVATIONS:	52	ANNUAL MEAN:	.0062	ANNUAL MAX:	.014						

RAW DATA REPORT Jul. 16, 2019

> LATITUDE: 39.8969 -75.3539 LONGITUDE:

7439-96-5

SITE ID: 42-045-0003 POC: 2 STATE: (42) Pennsylvania

COUNTY: (045) Delaware CITY: (75648) Swarthmore

(12132) Manganese (TSP) STP

SITE ADDRESS: Swarthmore College, Hicks Hall, 500 College Ave., Swarthmore, PA

SITE COMMENTS: Toxic Site

MONITOR COMMENTS:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection

MONITOR TYPE: OTHER

(0851) Pennsylvania Department Of Environmental Protection

COLLECTION AND ANALYSIS METHOD: (089) HI-VOL ICP/MS W/QUARTZ FILTER

DURATION: 24 HOUR 2017 REPORT FOR:

URBAN AND CENTER CITY

(045) METROPOLITAN PHILADELPHIA

URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ

LAND USE: RESIDENTIAL

LOCATION SETTING:

UNITS: Micrograms/cubic meter (25 C)

CAS NUMBER:

UTM ZONE:

UTM NORTHING:

UTM EASTING:

ELEVATION-MSL: 20

PROBE HEIGHT: 3

MIN DETECTABLE:

	MONTH											
Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	.004			.001	.009							
2			.004									
3												
4									.011			
5								.004				
6		.009				.003	AF					
7	.004		0.05	.002	.003							
8 9			.006									
10									AF			
11								.008	AL .			
12		.004				.014	AM					
13	.005			.007	.002							
14			.001									
15												
16									.019 5			
17								.016 5				
18		.009				AM	.008					
19	.006			.004	.008							
20			AF									
21 22									.047 5			
23								.021 5	.047 3			
24		.006				.005	FI					
25	.005			.002	.000 ND							
26			.002									
27												
28									.051 5			
29								.015 5				
30						AM	.006					
31	.008				.003							
NO.:	6	4	4	5	6	3	2	5	4	0	0	0
MAX:	.008	.009	.006	.007	.009	.014	.008	.021	.051			
MEAN:	.0053	.0070	.0033	.0032	.0042	.0073	.0070	.0128	.0320			
ANNUA	L OBSERVATION	S: 39	ANNUAL MEAN:	.0088	ANNUAL MAX:	.051						

(045) METROPOLITAN PHILADELPHIA

URBAN AND CENTER CITY

URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ

LAND USE: RESIDENTIAL

LOCATION SETTING:

RAW DATA REPORT Jul. 16, 2019

> LATITUDE: 39.8969 -75.3539 LONGITUDE:

7440-02-0

CAS NUMBER:

UTM ZONE:

UTM NORTHING:

UTM EASTING:

ELEVATION-MSL: 20

PROBE HEIGHT: 3

SITE ID: 42-045-0003 POC: 2 STATE: (42) Pennsylvania

COUNTY: (045) Delaware CITY: (75648) Swarthmore

(12136) Nickel (TSP) STP

SITE ADDRESS: Swarthmore College, Hicks Hall, 500 College Ave., Swarthmore, PA

SITE COMMENTS: Toxic Site

MONITOR COMMENTS:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection

MONITOR TYPE: OTHER

MONTELL

COLLECTION AND ANALYSIS METHOD: (089) HI-VOL ICP/MS W/QUARTZ FILTER (0851) Pennsylvania Department Of Environmental Protection

DURATION: 24 HOUR 2013 REPORT FOR:

UNITS: Micrograms/cubic meter (25 C)

MIN DETECTABLE:

	MONTH											
Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1									.000 ND	.000 ND		
2								AF				
3		.000 ND				.000 ND	AF					
4	.000 ND			.000 ND	.000 ND							
5			.000 ND									
6											.000 ND	.000 ND
7									.000 ND	.000 ND		
8								.000 ND				
9		.000 ND				.000 ND	.000 ND					
10	.000 ND			.000 ND	.000 ND							
11			.000 ND									
12											.000 ND	.008 5
13								000 277	.000 ND	.000 ND		
14 15		.000 ND				.000 ND	.000 ND	.000 ND				
16	.000 ND	.000 ND		.000 ND	.000 ND	.000 ND	.000 ND					
17	.000 ND		.000 ND	.000 ND	.000 ND							
18			.000 ND								AF	.000 ND
19									.000 ND	.000 ND	ru:	.000 ND
20								.000 ND	.000 112	.000 112		
21		.000 ND				.000 ND	.000 ND					
22	.000 ND			.000 ND	.000 ND							
23			.000 ND									
24											AF	.000 ND
25									AF	.000 ND		
26								.000 ND				
27		.000 ND				.000 ND	.000 ND					
28	.000 ND			.000 ND	.000 ND							
29			.000 ND									
30											.000 ND	.000 ND
31										.000 ND		
NO.:	5	5	5	5	5	5	4	4	4	6	3	5
MAX:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.008
MEAN:	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	.0016
ANNUAI	L OBSERVATIONS	56	ANNUAL MEAN:	.0001	ANNUAL MAX:	.008						
		50	THIOTH PERM.	.0001								

RAW DATA REPORT Jul. 16, 2019

> LATITUDE: 39.8969 STATE: (42) Pennsylvania -75.3539 LONGITUDE:

CAS NUMBER:

UTM ZONE:

UTM NORTHING:

7440-02-0

SITE ID: 42-045-0003 COUNTY: (045) Delaware

(12136) Nickel (TSP) STP

POC: 2

(045) METROPOLITAN PHILADELPHIA CITY: (75648) Swarthmore URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ SITE ADDRESS: Swarthmore College, Hicks Hall, 500 College Ave., Swarthmore, PA

LAND USE: RESIDENTIAL UTM EASTING: SITE COMMENTS: Toxic Site LOCATION SETTING: URBAN AND CENTER CITY ELEVATION-MSL: 20 MONITOR COMMENTS: PROBE HEIGHT: 3

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection DURATION: 24 HOUR 2014 MONITOR TYPE: OTHER REPORT FOR:

UNITS: Micrograms/cubic meter (25 C) COLLECTION AND ANALYSIS METHOD: (089) HI-VOL ICP/MS W/QUARTZ FILTER

(0851) Pennsylvania Department Of Environmental Protection MIN DETECTABLE:

PQAO.				ronmental Prote							MIN DEIE	
	MONTH											
Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1											.000 ND	AF
2									.000 ND	.000 ND		
3								.000 ND				
4		AF				AF	AF					
5	.000 ND			AF	.000 ND							
6			AF									
7 8									.000 ND	000 277	.000 ND	.000 ND
9								.000 ND	.000 ND	.000 ND		
10		.000 ND				AF	AF	.000 ND				
11	.000 ND	.000 ND		.000 ND	AF	111	AL.					
12			AF									
13											.000 ND	.000 ND
14									.000 ND	.000 ND		
15								.000 ND				
16		AF				AF	.000 ND					
17	AF			.000 ND	AF							
18			AF									
19 20									.000 ND	.000 ND	.000 ND	.000 ND
21								.000 ND	.000 ND	.000 ND		
22		AF				AF	.000 ND	.000 ND				
23	.000 ND			.000 ND	.000 ND							
24			AF									
25											AF	.000 ND
26									.000 ND	AF		
27								.000 ND				
28		AF				AF	.000 ND					
29	.000 ND			.000 ND	.000 ND							
30			AF									000 MD
31												.000 ND
NO.:	4	1	0	4	3	0	3	5	5	4	4	5
MAX:	0.000	0.000		0.000	0.000		0.000	0.000	0.000	0.000	0.000	0.000
MEAN:	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	AL OBSERVATIONS	3: 38	ANNUAL MEAN:	0.0000	ANNUAL MAX:	0.000						

RAW DATA REPORT Jul. 16, 2019

> LATITUDE: 39.8969 -75.3539

7440-02-0

SITE ID: 42-045-0003 POC: 2 STATE: (42) Pennsylvania

COUNTY: (045) Delaware CITY: (75648) Swarthmore

(12136) Nickel (TSP) STP

SITE ADDRESS: Swarthmore College, Hicks Hall, 500 College Ave., Swarthmore, PA

SITE COMMENTS: Toxic Site

MONITOR COMMENTS:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection

COLLECTION AND ANALYSIS METHOD: (089) HI-VOL ICP/MS W/QUARTZ FILTER (0851) Pennsylvania Department Of Environmental Protection

MONITOR TYPE: OTHER

DURATION: 24 HOUR 2015 REPORT FOR:

URBAN AND CENTER CITY

(045) METROPOLITAN PHILADELPHIA

URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ

LAND USE: RESIDENTIAL

LOCATION SETTING:

UNITS: Micrograms/cubic meter (25 C)

CAS NUMBER:

LONGITUDE:

UTM NORTHING:

UTM EASTING:

ELEVATION-MSL: 20

PROBE HEIGHT: 3

UTM ZONE:

MIN DETECTABLE:

	MONTH											
Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1			.000 ND									
2											.000 ND	.000 ND
3									.000 ND	.000 ND		
4								.000 ND				
5		.000 ND				.000 ND	.000 ND					
6	AF			.000 ND	.000 ND							
7			.000 ND									
8											.000 ND	.000 ND
9									.000 ND	AF		
10								.000 ND				
11		.000 ND		000 175	000 277	.000 ND	.000 ND					
12 13	AF		.000 ND	.000 ND	.000 ND							
14			.000 ND								.000 ND	.000 ND
15									.000 ND	AF	.000 ND	.000 ND
16								.000 ND	.000 112	***		
17		.000 ND				.000 ND	.000 ND					
18	AF			.000 ND	.000 ND							
19			.000 ND									
20											.000 ND	.000 ND
21									.000 ND	.000 ND		
22								.000 ND				
23		.000 ND				.000 ND	.000 ND					
24	.000 ND			.000 ND	.000 ND							
25			.000 ND									
26											.000 ND	AF
27									.000 ND	.000 ND		
28								.000 ND				
29 30	.000 ND			.000 ND	0.00 ATD	.000 ND	.000 ND					
31	.000 ND		.000 ND	.000 ND	.000 ND							
31			.000 ND									
NO.:	2	4	6	5	5	5	5	5	5	3	5	4
MAX:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MEAN:	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
ANNUAI	OBSERVATIONS:	54	ANNUAL MEAN:	0.0000	ANNUAL MAX:	0.000						

RAW DATA REPORT Jul. 16, 2019

> CAS NUMBER: LATITUDE: 39.8969 -75.3539 LONGITUDE: UTM ZONE:

> > UTM NORTHING:

UTM EASTING:

ELEVATION-MSL: 20

PROBE HEIGHT: 3

7440-02-0

SITE ID: 42-045-0003 STATE: (42) Pennsylvania COUNTY: (045) Delaware

CITY: (75648) Swarthmore

(12136) Nickel (TSP) STP

SITE ADDRESS: Swarthmore College, Hicks Hall, 500 College Ave., Swarthmore, PA

SITE COMMENTS: Toxic Site

MONITOR COMMENTS:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection

COLLECTION AND ANALYSIS METHOD: (089) HI-VOL ICP/MS W/QUARTZ FILTER (0851) Pennsylvania Department Of Environmental Protection

POC: 2

MONITOR TYPE: OTHER

DURATION: 24 HOUR 2016

URBAN AND CENTER CITY

(045) METROPOLITAN PHILADELPHIA

URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ

LAND USE: RESIDENTIAL

LOCATION SETTING:

REPORT FOR:

UNITS: Micrograms/cubic meter (25 C)

MIN DETECTABLE:

	MONTH											
Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	FI		.000 ND									
2											.000 ND	.000 ND
3									.000 ND	.000 ND		
4								.000 ND				
5		000 177		000 175		AF	.000 ND					
6	0.00 NTD	.000 ND	000 MD	.000 ND	AF							
7 8	.000 ND		.000 ND								.000 ND	.000 ND
9									.000 ND	.000 ND	.000 ND	.000 D
10								.000 ND	.000 ND	.000 142		
11						.000 ND	.000 ND	.000 115				
12		.000 ND		.000 ND	AF							
13	.000 ND		.000 ND									
14											.000 ND	.000 ND
15									.000 ND	.000 ND		
16								.000 ND				
17						.000 ND	.000 ND					
18		.000 ND		.000 ND	AF							
19	.000 ND		.000 ND									
20											.000 ND	AM
21									.000 ND	.000 ND		
22								.000 ND				
23						.000 ND	.000 ND					
24	000 277	.000 ND	000 275	.000 ND	AF							
25 26	.000 ND		.000 ND								.000 ND	.000 ND
27									.000 ND	.000 ND	.000 ND	.UUU UUI
28								.000 ND	.000 ND	.000 ND		
29						.000 ND	.000 ND	.000 ND				
30				AV	AF							
31	.000 ND		.000 ND									
NO.:	5	4	6	4	0	4	5	5	5	5	5	4
MAX:	0.000	0.000	0.000	0.000	ŭ	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MEAN:	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	L OBSERVATIONS		ANNUAL MEAN:		ANNUAL MAX:	0.000						

RAW DATA REPORT Jul. 16, 2019

LATITUDE: 39.8969 LONGITUDE: -75.3539

7440-02-0

CAS NUMBER:

UTM ZONE:

UNITS: Micrograms/cubic meter (25 C)

UTM NORTHING:

UTM EASTING:

ELEVATION-MSL: 20

PROBE HEIGHT: 3

COUNTY: (045) Delaware CITY: (75648) Swarthmore

(12136) Nickel (TSP) STP

SITE ADDRESS: Swarthmore College, Hicks Hall, 500 College Ave., Swarthmore, PA

SITE COMMENTS: Toxic Site

MONITOR COMMENTS:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection

COLLECTION AND ANALYSIS METHOD: (089) HI-VOL ICP/MS W/QUARTZ FILTER PQAO: (0851) Pennsylvania Department Of Environmental Protection

MONITOR TYPE: OTHER

REPORT FOR: 2017 DURATION: 24 HOUR

URBAN AND CENTER CITY

(045) METROPOLITAN PHILADELPHIA

URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ

LAND USE: RESIDENTIAL

LOCATION SETTING:

MIN DETECTABLE:

	MONTH											
Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	.000 ND			.000 ND	.000 ND							
2			.000 ND									
3												
4									.003			
5								.000 ND				
6		.000 ND				.000 ND	AF					
7	.000 ND			.000 ND	.000 ND							
8			.000 ND									
9												
10								000	AF			
11 12		.000 ND				.000 ND	AM	.000 ND				
13	.000 ND	.000 ND		.000 ND	.000 ND	.000 ND	AIM					
14	.000 ND		.000 ND	.000 ND	.000 ND							
15												
16									.000 ND			
17								.000 ND				
18		.000 ND				AM	.000 ND					
19	.000 ND			.000 ND	.000 ND							
20			AF									
21												
22									.002			
23								.000 ND				
24	000 277	.000 ND		000 177	000 277	.000 ND	FI					
25 26	.000 ND		.000 ND	.000 ND	.000 ND							
26			.000 ND									
28									.003			
29								.000 ND				
30						AM	.000 ND					
31	.000 ND				.000 ND							
NO.:	6	4	4	5	6	3	2	5	4	0	0	0
MAX:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.003	U	U	U
MEAN:	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	.0020			
							0.0000	0.0000	.0020			
ANNUA:	L OBSERVATIONS	: 39	ANNUAL MEAN:	.0002	ANNUAL MAX:	.003						

Jul. 16, 2019

LATITUDE: 39.8969 LONGITUDE: -75.3539

7440-66-6

CAS NUMBER:

UTM ZONE:

UTM NORTHING:

UTM EASTING:

ELEVATION-MSL: 20

PROBE HEIGHT: 3

STATE: (42) Pennsylvania COUNTY: (045) Delaware (045) METROPOLITAN PHILADELPHIA

CITY: (75648) Swarthmore URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ

SITE ADDRESS: Swarthmore College, Hicks Hall, 500 College Ave., Swarthmore, PA

SITE COMMENTS: Toxic Site MONITOR COMMENTS:

SITE ID: 42-045-0003

(12167) Zinc (TSP) STP

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection

MONITOR TYPE: OTHER

COLLECTION AND ANALYSIS METHOD: (089) HI-VOL ICP/MS W/QUARTZ FILTER (0851) Pennsylvania Department Of Environmental Protection

POC: 2

DURATION: 24 HOUR 2013 REPORT FOR:

LAND USE: RESIDENTIAL

LOCATION SETTING:

UNITS: Micrograms/cubic meter (25 C)

URBAN AND CENTER CITY

MIN DETECTABLE:

	MONTH											
Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1									.015	.022		
2								AF				
3		.026				.015	AF					
4	.021			.027	.019							
5			.027									
6											.024	.019
7									.021	.021		
8								.380 5				
9		.030				.025	.028					
10	.128			.029	.041							
11			.010									
12											.015	.023
13 14								.013	.024	.037		
15		.041				.018	.015	.013				
16	.021	.041		.049 5	.031	.010	.013					
17	.021		.016	.019 3	.031							
18			.010								AF	.032
19									.016	.017		
20								.020				
21		.018				.024	.019					
22	.023			.018	.026							
23			.017									
24											AF	.020
25									AF	.021		
26								.019				
27		.015				.034	.034					
28	.027			.024	.021							
29			.018									
30										0.05	.020	.017
31										.026		
NO.:	5	5	5	5	5	5	4	4	4	6	3	5
MAX:	.128	.041	.027	.049	.041	.034	.034	.380	.024	.037	.024	.032
MEAN:	.0440	.0260	.0176	.0294	.0276	.0232	.0240	.1080	.0190	.0240	.0197	.0222
ANNUAL	OBSERVATIONS:	56	ANNUAL MEAN:	.0314	ANNUAL MAX:	.380						

STATE: (42) Pennsylvania

LAND USE: RESIDENTIAL

LOCATION SETTING:

(045) METROPOLITAN PHILADELPHIA

URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ

RAW DATA REPORT

(12167) Zinc (TSP) STP CAS NUMBER: 7440-66-6

SITE ID: 42-045-0003 POC: 2 COUNTY: (045) Delaware

CITY: (75648) Swarthmore

SITE ADDRESS: Swarthmore College, Hicks Hall, 500 College Ave., Swarthmore, PA

SITE COMMENTS: Toxic Site

MONITOR COMMENTS:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection

COLLECTION AND ANALYSIS METHOD: (089) HI-VOL ICP/MS W/QUARTZ FILTER
POAO: (0851) Pennsylvania Department Of Environmental Protection

MONITOR TYPE: OTHER REPORT FOR: 2014

REPORT FOR: 2014 DURATION: 24 HOUR
UNITS: Micrograms/cubic meter (25 C)

URBAN AND CENTER CITY

MIN DETECTABLE:

Jul. 16, 2019

39.8969

-75.3539

LATITUDE:

LONGITUDE:

UTM NORTHING:

UTM EASTING:

ELEVATION-MSL: 20

PROBE HEIGHT: 3

UTM ZONE:

PQAO:	(0851) Penr	nsylvania Dep	artment Of Envi	ronmental Prot	tection						MIN DET	ECTABLE:
	MONTH											
Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1											.022	AF
2									.018	.027		
3								.013				
4		AF				AF	AF					
5	.039			AF	.027							
6			AF									
7											.025	.011
8									.021	.015		
9		0.4.5						.021				
10	.046 5	.017		.053 5	AF	AF	AF					
11 12	.046 5		AF	.053 5	Ar							
13			Ar								.016	.013
14									.015	.012	.010	.013
15								.017				
16		AF				AF	.015					
17	AF			.021	AF							
18			AF									
19											.019	.018
20									.022	.022		
21								.027				
22		AF				AF	.015					
23	.037			.017	.018							
24			AF									24.2
25									010		AF	.013
26 27								.023	.018	AF		
28		AF				AF	.013	.023				
29	.032	Ar		.058 5	.022	Ar	.013					
30	.032		AF	.030 3	.022							
31			***									.024
NO.:	4	1	0	4	3	0	3	5	5	4	4	5
MAX:	.046	.017		.058	.027		.015	.027	.022	.027	.025	.024
MEAN:	.0385	.0170		.0373	.0223		.0143	.0202	.0188	.0190	.0205	.0158
ANNUA	L OBSERVATIONS	38	ANNUAL MEAN:	.0227	ANNUAL MAX:	.058						

Jul. 16, 2019

LATITUDE: 39.8969 -75.3539 LONGITUDE:

7440-66-6

CAS NUMBER:

UTM ZONE:

UTM NORTHING:

UTM EASTING:

ELEVATION-MSL: 20

PROBE HEIGHT: 3

STATE: (42) Pennsylvania COUNTY: (045) Delaware (045) METROPOLITAN PHILADELPHIA

CITY: (75648) Swarthmore

SITE ID: 42-045-0003

(12167) Zinc (TSP) STP

SITE ADDRESS: Swarthmore College, Hicks Hall, 500 College Ave., Swarthmore, PA

SITE COMMENTS: Toxic Site

MONITOR COMMENTS:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection

MONITOR TYPE: OTHER

COLLECTION AND ANALYSIS METHOD: (089) HI-VOL ICP/MS W/QUARTZ FILTER (0851) Pennsylvania Department Of Environmental Protection

POC: 2

DURATION: 24 HOUR

URBAN AND CENTER CITY

URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ

LAND USE: RESIDENTIAL

LOCATION SETTING:

2015 REPORT FOR: UNITS: Micrograms/cubic meter (25 C)

MIN DETECTABLE:

PQAO.	(0031) Pelli	ъутуанта рер	artiment or Envir	. Onmenda PIOC	CCCIOII						MIN DEI	CIMDUE.
	MONTH											
Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1			.056 5									
2											.024	.018
3									.026	.006		
4								.013				
5		.021		0.45 5	000	.130 5	.021					
6 7	AF		.020	.045 5	.028							
8			.020								.021	.034
9									.031	AF	.021	.034
10								.016	.031			
11		.025				.027	.021					
12	AF			.015	.028							
13			.020									
14											.012	.023
15									.035	AF		
16								.017				
17		.022				.033	.016					
18	AF			.015	.024							
19			.019									
20											.019	.024
21								.017	.028	.037		
22 23		.057 5				.028	.014	.017				
24	.015	.05/ 5		.013	.020	.028	.014					
25	.015		.041	.013	.020							
26											.020	AF
27									.015	.015		
28								.022				
29						.018	.026					
30	.023			.024	.020							
31			.020									
NO.:	2	4	6	5	5	5	5	5	5	3	5	4
MAX:	.023	.057	.056	.045	.028	.130	.026	.022	.035	.037	.024	.034
	.0190	.0313	.0293	.0224	.0240	.0472	.0196	.0170	.0270	.0193	.0192	.0248
MEAN:	.0190	.0313	.0293	.0224	.0240	.04/2	.0190	.0170	.0270	.0193	.0192	.0248

CAS NUMBER:

PROBE HEIGHT: 3

7440-66-6

Jul. 16, 2019

LATITUDE: 39.8969 SITE ID: 42-045-0003 POC: 2 STATE: (42) Pennsylvania -75.3539 LONGITUDE: COUNTY: (045) Delaware

(045) METROPOLITAN PHILADELPHIA UTM ZONE: CITY: (75648) Swarthmore URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ UTM NORTHING: SITE ADDRESS: Swarthmore College, Hicks Hall, 500 College Ave., Swarthmore, PA LAND USE: RESIDENTIAL UTM EASTING: SITE COMMENTS: Toxic Site LOCATION SETTING: URBAN AND CENTER CITY ELEVATION-MSL: 20 MONITOR COMMENTS:

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection DURATION: 24 HOUR

2016 MONITOR TYPE: OTHER REPORT FOR:

UNITS: Micrograms/cubic meter (25 C) COLLECTION AND ANALYSIS METHOD: (089) HI-VOL ICP/MS W/QUARTZ FILTER (0851) Pennsylvania Department Of Environmental Protection MIN DETECTABLE:

	MONTH											
Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	FI		.020									
2											.028	.014
3									.028	.014		
4								.011				
5						AF	.011					
6		.017		.024	AF							
7	.036		.026									
8											.023	.026
9									.019	.013		
10								.017				
11						.023	.012					
12	0.4.5	.014		.021	AF							
13 14	.015		.022								.031	.026
15									.017	.044 5	.031	.026
16								.017	.017	.011 3		
17						.017	.014	.017				
18		.023		.020	AF	.017	.011					
19	.013		.014									
20											.008	AM
21									.027	.035		
22								.010				
23						.035	.018					
24		.008		.019	AF							
25	.142 5		.022									
26											.013	.037
27									.026	.017		
28								.011				
29						.028	.013					
30	0.4.5			AV	AF							
31	.015		.021									
NO.:	5	4	6	4	0	4	5	5	5	5	5	4
MAX:	.142	.023	.026	.024		.035	.018	.017	.028	.044	.031	.037
MEAN:	.0442	.0155	.0208	.0210		.0258	.0136	.0132	.0234	.0246	.0206	.0258
ANNUAL	OBSERVATIONS:	52	ANNUAL MEAN:	.0226	ANNUAL MAX:	.142						

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk ("*") indicates that the region has reviewed the value and does not concur with the qualifier.

(12167) Zinc (TSP) STP

RAW DATA REPORT Jul. 16, 2019

> LATITUDE: 39.8969 LONGITUDE: -75.3539

CAS NUMBER:

UTM ZONE:

UTM NORTHING:

UTM EASTING:

ELEVATION-MSL: 20

PROBE HEIGHT: 3

7440-66-6

STATE: (42) Pennsylvania COUNTY: (045) Delaware

(12167) Zinc (TSP) STP

POC: 2

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection

SITE ID: 42-045-0003

CITY: (75648) Swarthmore

(045) METROPOLITAN PHILADELPHIA URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ SITE ADDRESS: Swarthmore College, Hicks Hall, 500 College Ave., Swarthmore, PA

LAND USE: RESIDENTIAL

SITE COMMENTS: Toxic Site LOCATION SETTING: URBAN AND CENTER CITY MONITOR COMMENTS:

DURATION: 24 HOUR

2017 MONITOR TYPE: OTHER REPORT FOR:

UNITS: Micrograms/cubic meter (25 C) COLLECTION AND ANALYSIS METHOD: (089) HI-VOL ICP/MS W/QUARTZ FILTER (0851) Pennsylvania Department Of Environmental Protection MIN DETECTABLE:

	MONTH											
Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	.015			.000 ND	.035							
2			.016									
3												
4									.034			
5								.013				
6		.022				.000 ND	AF					
7	.022			.007	.006							
8			.013									
9												
10 11								.021	AF			
12		.019				.000 ND	AM	.021				
13	.014	.019		.019	.008	.000 ND	Alti					
14	.011		.009	.019	.000							
15												
16									.032			
17								.026				
18		.032				AM	.020					
19	.017			.011	.012							
20			AF									
21												
22									.030			
23								.014				
24		.017				.000 ND	FI					
25	.025			.006	.000 ND							
26 27			.009									
28									.040			
29								.031	.040			
30						AM	.020	.031				
31	.028				.000 ND							
NO.:	6	4	4	5	6	3	2	5	4	0	0	0
MAX:	.028	.032	.016	.019	.035	0.000	.020	.031	.040			
MEAN:	.0202	.0225	.0118	.0086	.0102	0.0000	.0200	.0210	.0340			
ANNUA	L OBSERVATIONS	39	ANNUAL MEAN	: .0165	ANNUAL MAX:	.040						

RAW DATA REPORT Jul. 16, 2019

QUALIFIER CODES:

Qualifier Code	Qualifier Description	Qualifier Type
5	Outlier.	QA
AF	Scheduled but not Collected.	NULL
AM	Miscellaneous Void.	NULL
AV	Power Failure.	NULL
FI	Filter Inspection Flag.	NULL
ND	No Value Detected, Zero Reported.	QA

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional concurrence are shown in lower case.