Date of Issue: 08/01/2018 04:07:58

DEP Bureau of Laboratories - Harrisburg
P.O. Box 1467
2575 Interstate Drive
Harrisburg, PA 17105-1467

Contact Phone Number: (717) 346-7200

NELAP - accredited by

NJ DEP - Laboratory Number: PA059
PA DEP LAP - DEP Lab ID: 22-00223

Analytical Report For
Environmental Cleanup

Sample ID: 2128 002 **Date Collected:** 07/18/2018 09:50:00 AM **Lab Sample ID:** O2018004335 **Status:** Completed

Name of Sample Collector: Dustin Armstrong
Date Received: 07/20/2018

County: Bucks **State:**
Municipality: Nockamixon Twp
77 BRENNAN ROAD

Sample Medium: Soil Gas
Sample Medium Type: Air (Gas)

Location: SG-1
Reason: Routine Sampling
Project: NOCK TCE Nockamixon TCE HSCA SITE
Suite: CVOCA
Matrix: Summa Canister

Stream Condition:

Sample Comment: 30-Minute Sample
Sample Standard Comment: Accredited by NJ only - accreditation not available from PA

Test Codes / CAS # - Description	Reported Results	Date And Time Analyzed	Approved by	Test Method
71556 1,1,1-Trichloroethane	179000 ppbv (Q)	07/30/2018 02:00 AM	DACLEMENS	EPA TO15
X71556 1,1,1-Trichloroethane	993000 ug/m^3 (Q)	07/30/2018 02:00 AM	DACLEMENS	EPA TO15

Analytical Report For
Environmental Cleanup

Sample ID: 2128 002 **Date Collected:** 07/18/2018 09:50:00 AM **Lab Sample ID:** O2018004335 **Status:** Completed

Test Codes / CAS # - Description	Reported Results	Date And Time Analyzed	Approved by	Test Method
79005 1,1,2-Trichloroethane	3000 ppbv (U)	07/30/2018 02:00 AM	DACLEMENS	EPA TO15
X79005 1,1,2-Trichloroethane	16600 ug/m^3 (U)	07/30/2018 02:00 AM	DACLEMENS	EPA TO15
75343 1,1-Dichloroethane	4390 ppbv	07/30/2018 02:00 AM	DACLEMENS	EPA TO15
X75343 1,1-Dichloroethane	17867.3 ug/m^3	07/30/2018 02:00 AM	DACLEMENS	EPA TO15
75354 1,1-Dichloroethene	7300 ppbv (Q)	07/30/2018 02:00 AM	DACLEMENS	EPA TO15
X75354 1,1-Dichloroethene	29400 ug/m^3 (Q)	07/30/2018 02:00 AM	DACLEMENS	EPA TO15
107062 1,2-Dichloroethane	3000 ppbv (U)	07/30/2018 02:00 AM	DACLEMENS	EPA TO15
X107062 1,2-Dichloroethane	12300 ug/m^3 (U)	07/30/2018 02:00 AM	DACLEMENS	EPA TO15
X75014 Chloroethene	14500 ug/m^3 (Q)	07/30/2018 02:00 AM	DACLEMENS	EPA TO15
75014 Chloroethene (vinyl chloride)	5580 ppbv (Q)	07/30/2018 02:00 AM	DACLEMENS	EPA TO15
156592 cis-1,2-Dichloroethene	505000 ppbv (Q)	07/30/2018 02:00 AM	DACLEMENS	EPA TO15
X156592 cis-1,2-Dichloroethene	2040000 ug/m^3 (Q)	07/30/2018 02:00 AM	DACLEMENS	EPA TO15
CLEAN SUMMA	05082018 Day	07/30/2018 02:00 AM	DACLEMENS	EPA TO15
Summa Press	12.30000	07/30/2018 02:00 AM	DACLEMENS	EPA TO15
127184 Tetrachloroethene	703000 ppbv (Q)	07/30/2018 02:00 AM	DACLEMENS	EPA TO15
X127184 Tetrachloroethene	4840000 ug/m^3 (Q)	07/30/2018 02:00 AM	DACLEMENS	EPA TO15
156605 trans-1,2-Dichloroethene	20800 ppbv (Q)	07/30/2018 02:00 AM	DACLEMENS	EPA TO15
X156605 trans-1,2-Dichloroethene	83800 ug/m^3 (Q)	07/30/2018 02:00 AM	DACLEMENS	EPA TO15
79016 Trichloroethene	607000 ppbv (Q)	07/30/2018 02:00 AM	DACLEMENS	EPA TO15
X79016 Trichloroethene	3310000 ug/m^3 (Q)	07/30/2018 02:00 AM	DACLEMENS	EPA TO15

The results of the analyses provided in this laboratory report relate only to the sample(s) identified therein. Unless otherwise noted, the results presented on this laboratory report meet all requirements of the 2009 TNI standard. Sample was in acceptable condition when received by the Laboratory. Any exceptions are noted in the report.
* denotes tests that the laboratory is not accredited for

Taru Upadhyay, Technical Director, Bureau of Laboratories

ORGANICS LABORATORY QUALIFIERS

U - Indicates analysis was performed for the compound but it was not detected. The sample quantitation limit is reported.

J - Indicates an estimated value, below the quantitation limit, but above the method detection limit.

N - Indicates presumptive evidence of a compound.

B - This flag is used when the analyte is found in the associated blank as well as in the sample.

E - This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.

P - This flag is used with a target analyte when there is greater than a 40% difference between the results obtained from the primary and confirmation columns for dual column analysis methods (e.g. pesticides, triazines, PCBs, etc)

Q - This flag identifies the average of multiple results from multiple analyses, or the average of the averages of dual column analysis methods.

X - Non-target analytes co-elute with compound. Identification unable to be confirmed.

Date of Issue: 10/02/2019 04:02:29

DEP Bureau of Laboratories - Harrisburg
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Contact Phone Number: (717) 346-7200

NELAP - accredited by

NJ DEP - Laboratory Number: PA059
PA DEP LAP - DEP Lab ID: 22-00223

Analytical Report For
Environmental Cleanup

Sample ID: 2128 004 **Date Collected:** 09/12/2019 01:05:00 PM **Lab Sample ID:** O2019006363 **Status:** Completed

Name of Sample Collector: Dustin Armstrong
Date Received: 09/20/2019

County: Bucks **State:**
Municipality: Nockamixon Twp
BRENNAN ROAD

Sample Medium: Soil Gas
Sample Medium Type: Air (Gas)

Location: SG-3 (Near MW-11)
Reason: Routine Sampling
Project: NOCK TCE Nockamixon TCE HSCA SITE
Suite: CVOCA
Matrix: Summa Canister

Stream Condition:

Sample Comment: 30 min Regulator PID Reading - 220 PPM
Sample Standard Comment: Accredited by NJ only - accreditation not available from PA

Test Codes / CAS # - Description	Reported Results	Date And Time Analyzed	Approved by	Test Method
X71556 1,1,1-Trichloroethane	124000 ug/m^3 (Q)	09/25/2019 02:00 AM	DACLEMENS	EPA TO15
71556 1,1,1-Trichloroethane	22400 ppbv (Q)	09/25/2019 02:00 AM	DACLEMENS	EPA TO15

Analytical Report For
Environmental Cleanup

Sample ID: 2128 004 **Date Collected:** 09/12/2019 01:05:00 PM **Lab Sample ID:** O2019006363 **Status:** Completed

Test Codes / CAS # - Description	Reported Results	Date And Time Analyzed	Approved by	Test Method
X79005 1,1,2-Trichloroethane	4440 ug/m^3 (U)	09/25/2019 02:00 AM	DACLEMENS	EPA TO15
79005 1,1,2-Trichloroethane	800 ppbv (U)	09/25/2019 02:00 AM	DACLEMENS	EPA TO15
X75343 1,1-Dichloroethane	3256 ug/m^3 (U)	09/25/2019 02:00 AM	DACLEMENS	EPA TO15
75343 1,1-Dichloroethane	800 ppbv (U)	09/25/2019 02:00 AM	DACLEMENS	EPA TO15
X75354 1,1-Dichloroethene	54000 ug/m^3 (Q)	09/25/2019 02:00 AM	DACLEMENS	EPA TO15
75354 1,1-Dichloroethene	13400 ppbv (Q)	09/25/2019 02:00 AM	DACLEMENS	EPA TO15
X107062 1,2-Dichloroethane	3290 ug/m^3 (U)	09/25/2019 02:00 AM	DACLEMENS	EPA TO15
107062 1,2-Dichloroethane	800 ppbv (U)	09/25/2019 02:00 AM	DACLEMENS	EPA TO15
X75014 Chloroethene (vinyl chloride)	2340 ug/m^3	09/25/2019 02:00 AM	DACLEMENS	EPA TO15
75014 Chloroethene (vinyl chloride)	899 ppbv	09/25/2019 02:00 AM	DACLEMENS	EPA TO15
X156592 cis-1,2-Dichloroethene	95500 ug/m^3 (Q)	09/25/2019 02:00 AM	DACLEMENS	EPA TO15
156592 cis-1,2-Dichloroethene	23700 ppbv (Q)	09/25/2019 02:00 AM	DACLEMENS	EPA TO15
Summa can pressure at receipt	13.00000	09/25/2019 02:00 AM	DACLEMENS	EPA TO15
Summa canister cleaning date	06132019 Day	09/25/2019 02:00 AM	DACLEMENS	EPA TO15
X127184 Tetrachloroethene	110000 ug/m^3 (Q)	09/25/2019 02:00 AM	DACLEMENS	EPA TO15
127184 Tetrachloroethene	16000 ppbv (Q)	09/25/2019 02:00 AM	DACLEMENS	EPA TO15
X156605 trans-1,2-Dichloroethene	3220 ug/m^3 (U)	09/25/2019 02:00 AM	DACLEMENS	EPA TO15
156605 trans-1,2-Dichloroethene	800 ppbv (U)	09/25/2019 02:00 AM	DACLEMENS	EPA TO15
X79016 Trichloroethene	402000 ug/m^3 (Q)	09/25/2019 02:00 AM	DACLEMENS	EPA TO15
79016 Trichloroethene	73700 ppbv (Q)	09/25/2019 02:00 AM	DACLEMENS	EPA TO15

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U - Indicates analysis was performed for the test but it was not detected. The sample quantitation limit is reported.

J - Indicates an estimated value, reported between Reporting Limit (RL) and Minimum Detection Limit (MDL).

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ORGANICS LABORATORY QUALIFIERS

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X - Non-target analytes co-elute with compound. Identification unable to be confirmed.

Date of Issue: 08/01/2018 04:04:32

DEP Bureau of Laboratories - Harrisburg
P.O. Box 1467
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Contact Phone Number: (717) 346-7200

NELAP - accredited by

NJ DEP - Laboratory Number: PA059
PA DEP LAP - DEP Lab ID: 22-00223

Analytical Report For
Environmental Cleanup

Sample ID: 2128 003 **Date Collected:** 07/18/2018 10:25:00 AM **Lab Sample ID:** O2018004336 **Status:** Completed

Name of Sample Collector: Dustin Armstrong
Date Received: 07/20/2018

County: Bucks **State:**
Municipality: Nockamixon Twp
84 BRENNAN ROAD

Sample Medium: Soil Gas
Sample Medium Type: Air (Gas)

Location: SG-4
Reason: Routine Sampling
Project: NOCK TCE Nockamixon TCE HSCA SITE
Suite: CVOCA
Matrix: Summa Canister

Stream Condition:

Sample Comment: 30-Minute Sample
Sample Standard Comment: Accredited by NJ only - accreditation not available from PA

Test Codes / CAS # - Description	Reported Results	Date And Time Analyzed	Approved by	Test Method
71556 1,1,1-Trichloroethane	344 ppbv (Q)	07/30/2018 02:00 AM	DACLEMENS	EPA TO15
X71556 1,1,1-Trichloroethane	1910 ug/m^3 (Q)	07/30/2018 02:00 AM	DACLEMENS	EPA TO15

Analytical Report For
Environmental Cleanup

Sample ID: 2128 003 **Date Collected:** 07/18/2018 10:25:00 AM **Lab Sample ID:** O2018004336 **Status:** Completed

Test Codes / CAS # - Description	Reported Results	Date And Time Analyzed	Approved by	Test Method
79005 1,1,2-Trichloroethane	30.0 ppbv (U)	07/30/2018 02:00 AM	DACLEMENS	EPA TO15
X79005 1,1,2-Trichloroethane	166 ug/m^3 (U)	07/30/2018 02:00 AM	DACLEMENS	EPA TO15
75343 1,1-Dichloroethane	30.0 ppbv (U)	07/30/2018 02:00 AM	DACLEMENS	EPA TO15
X75343 1,1-Dichloroethane	122.1 ug/m^3 (U)	07/30/2018 02:00 AM	DACLEMENS	EPA TO15
75354 1,1-Dichloroethene	64.8 ppbv (Q)	07/30/2018 02:00 AM	DACLEMENS	EPA TO15
X75354 1,1-Dichloroethene	261 ug/m^3 (Q)	07/30/2018 02:00 AM	DACLEMENS	EPA TO15
107062 1,2-Dichloroethane	30.0 ppbv (U)	07/30/2018 02:00 AM	DACLEMENS	EPA TO15
X107062 1,2-Dichloroethane	123 ug/m^3 (U)	07/30/2018 02:00 AM	DACLEMENS	EPA TO15
X75014 Chloroethene	78.0 ug/m^3 (U)	07/30/2018 02:00 AM	DACLEMENS	EPA TO15
75014 Chloroethene (vinyl chloride)	30.0 ppbv (U)	07/30/2018 02:00 AM	DACLEMENS	EPA TO15
156592 cis-1,2-Dichloroethene	1030 ppbv (Q)	07/30/2018 02:00 AM	DACLEMENS	EPA TO15
X156592 cis-1,2-Dichloroethene	4150 ug/m^3 (Q)	07/30/2018 02:00 AM	DACLEMENS	EPA TO15
CLEAN SUMMA	05082018 Day	07/30/2018 02:00 AM	DACLEMENS	EPA TO15
Summa Press	8.80000	07/30/2018 02:00 AM	DACLEMENS	EPA TO15
127184 Tetrachloroethene	14700 ppbv (Q)	07/30/2018 02:00 AM	DACLEMENS	EPA TO15
X127184 Tetrachloroethene	101000 ug/m^3 (Q)	07/30/2018 02:00 AM	DACLEMENS	EPA TO15
156605 trans-1,2-Dichloroethene	30.0 ppbv (U)	07/30/2018 02:00 AM	DACLEMENS	EPA TO15
X156605 trans-1,2-Dichloroethene	121 ug/m^3 (U)	07/30/2018 02:00 AM	DACLEMENS	EPA TO15
79016 Trichloroethene	5380 ppbv (Q)	07/30/2018 02:00 AM	DACLEMENS	EPA TO15
X79016 Trichloroethene	29400 ug/m^3 (Q)	07/30/2018 02:00 AM	DACLEMENS	EPA TO15

The results of the analyses provided in this laboratory report relate only to the sample(s) identified therein. Unless otherwise noted, the results presented on this laboratory report meet all requirements of the 2009 TNI standard. Sample was in acceptable condition when received by the Laboratory. Any exceptions are noted in the report.
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Taru Upadhyay, Technical Director, Bureau of Laboratories

ORGANICS LABORATORY QUALIFIERS

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Q - This flag identifies the average of multiple results from multiple analyses, or the average of the averages of dual column analysis methods.

X - Non-target analytes co-elute with compound. Identification unable to be confirmed.

Date of Issue: 07/10/2018 04:06:20

DEP Bureau of Laboratories - Harrisburg
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Contact Phone Number: (717) 346-7200

NELAP - accredited by

NJ DEP - Laboratory Number: PA059
PA DEP LAP - DEP Lab ID: 22-00223

Analytical Report For
Environmental Cleanup

Sample ID: 2128 001 **Date Collected:** 06/19/2018 11:10:00 AM **Lab Sample ID:** O2018003502 **Status:** Completed

Name of Sample Collector: Dustin Armstrong
Date Received: 06/27/2018

County: Bucks **State:**
Municipality: Nockamixon Twp
55 BRENNAN ROAD

Sample Medium: Soil Gas
Sample Medium Type: Air (Gas)

Location: SG-5
Reason: Routine Sampling
Project: NOCK TCE Nockamixon TCE HSCA SITE
Suite: CVOCA
Matrix: Summa Canister

Stream Condition:

Sample Comment: 30-minute sample
Sample Standard Comment: Accredited by NJ only - accreditation not available from PA

Test Codes / CAS # - Description	Reported Results	Date And Time Analyzed	Approved by	Test Method
X71556 1,1,1-Trichloroethane	1.55 UG/M3 (Q)	06/22/2018 02:00 AM	DACLEMENS	EPA TO15
71556 1,1,1-Trichloroethane	0.280 PPBV (Q)	06/22/2018 02:00 AM	DACLEMENS	EPA TO15

Analytical Report For
Environmental Cleanup

Sample ID: 2128 001 **Date Collected:** 06/19/2018 11:10:00 AM **Lab Sample ID:** O2018003502 **Status:** Completed

Test Codes / CAS # - Description	Reported Results	Date And Time Analyzed	Approved by	Test Method
X79005 1,1,2-Trichloroethane	0.555 UG/M3 (U)	06/22/2018 02:00 AM	DACLEMENS	EPA TO15
79005 1,1,2-Trichloroethane	0.100 PPBV (U)	06/22/2018 02:00 AM	DACLEMENS	EPA TO15
X75343 1,1-Dichloroethane	0.407 UG/M3 (U)	06/22/2018 02:00 AM	DACLEMENS	EPA TO15
75343 1,1-Dichloroethane	0.100 PPBV (U)	06/22/2018 02:00 AM	DACLEMENS	EPA TO15
X75354 1,1-Dichloroethene	0.403 UG/M3 (U)	06/22/2018 02:00 AM	DACLEMENS	EPA TO15
75354 1,1-Dichloroethene	0.100 PPBV (U)	06/22/2018 02:00 AM	DACLEMENS	EPA TO15
X107062 1,2-Dichloroethane	0.411 UG/M3 (U)	06/22/2018 02:00 AM	DACLEMENS	EPA TO15
107062 1,2-Dichloroethane	0.100 PPBV (U)	06/22/2018 02:00 AM	DACLEMENS	EPA TO15
X75014 Chloroethene	0.260 UG/M3 (U)	06/22/2018 02:00 AM	DACLEMENS	EPA TO15
75014 Chloroethene (vinyl chloride)	0.100 PPBV (U)	06/22/2018 02:00 AM	DACLEMENS	EPA TO15
X156592 cis-1,2-Dichloroethene	0.204 UG/M3 (J)	06/22/2018 02:00 AM	DACLEMENS	EPA TO15
156592 cis-1,2-Dichloroethene	0.0506 PPBV (J)	06/22/2018 02:00 AM	DACLEMENS	EPA TO15
CLEAN SUMMA	05082018 Day	06/22/2018 02:00 AM	DACLEMENS	EPA TO15
Summa Press	12.30000	06/22/2018 02:00 AM	DACLEMENS	EPA TO15
X127184 Tetrachloroethene	12.1 UG/M3 (Q)	06/22/2018 02:00 AM	DACLEMENS	EPA TO15
127184 Tetrachloroethene	1.76 PPBV (Q)	06/22/2018 02:00 AM	DACLEMENS	EPA TO15
X156605 trans-1,2-Dichloroethene	0.403 UG/M3 (U)	06/22/2018 02:00 AM	DACLEMENS	EPA TO15
156605 trans-1,2-Dichloroethene	0.100 PPBV (U)	06/22/2018 02:00 AM	DACLEMENS	EPA TO15
X79016 Trichloroethene	8.41 UG/M3 (Q)	06/22/2018 02:00 AM	DACLEMENS	EPA TO15
79016 Trichloroethene	1.54 PPBV (Q)	06/22/2018 02:00 AM	DACLEMENS	EPA TO15

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Taru Upadhyay, Technical Director, Bureau of Laboratories

ORGANICS LABORATORY QUALIFIERS

U - Indicates analysis was performed for the compound but it was not detected. The sample quantitation limit is reported.

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Q - This flag identifies the average of multiple results from multiple analyses, or the average of the averages of dual column analysis methods.

X - Non-target analytes co-elute with compound. Identification unable to be confirmed.

Date of Issue: 09/19/2018 04:14:24

DEP Bureau of Laboratories - Harrisburg
P.O. Box 1467
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Harrisburg, PA 17105-1467

Contact Phone Number: (717) 346-7200

NELAP - accredited by

NJ DEP - Laboratory Number: PA059
PA DEP LAP - DEP Lab ID: 22-00223

Analytical Report For
Environmental Cleanup

Sample ID: 2128 002 **Date Collected:** 08/30/2018 12:30:00 PM **Lab Sample ID:** O2018005882 **Status:** Completed

Name of Sample Collector: Dustin Armstrong
Date Received: 09/05/2018

County: Bucks **State:**
Municipality: Nockamixon Twp
91 BRENNAN ROAD

Sample Medium: Soil Gas
Sample Medium Type: Air (Gas)

Location: SG-6
Reason: Routine Sampling
Project: NOCK TCE Nockamixon TCE HSCA SITE
Suite: CVOCA
Matrix: Summa Canister

Stream Condition:

Sample Comment: 30-minute sample
Sample Standard Comment: Accredited by NJ only - accreditation not available from PA

Test Codes / CAS # - Description	Reported Results	Date And Time Analyzed	Approved by	Test Method
71556 1,1,1-Trichloroethane	0.10 ppbv (U)	09/06/2018 02:00 AM	DACLEMENS	EPA TO15
X71556 1,1,1-Trichloroethane	0.555 ug/m^3 (U)	09/06/2018 02:00 AM	DACLEMENS	EPA TO15

Analytical Report For
Environmental Cleanup

Sample ID: 2128 002 **Date Collected:** 08/30/2018 12:30:00 PM **Lab Sample ID:** O2018005882 **Status:** Completed

Test Codes / CAS # - Description	Reported Results	Date And Time Analyzed	Approved by	Test Method
79005 1,1,2-Trichloroethane	0.10 ppbv (U)	09/06/2018 02:00 AM	DACLEMENS	EPA TO15
X79005 1,1,2-Trichloroethane	0.555 ug/m^3 (U)	09/06/2018 02:00 AM	DACLEMENS	EPA TO15
75343 1,1-Dichloroethane	0.10 ppbv (U)	09/06/2018 02:00 AM	DACLEMENS	EPA TO15
X75343 1,1-Dichloroethane	0.407 ug/m^3 (U)	09/06/2018 02:00 AM	DACLEMENS	EPA TO15
75354 1,1-Dichloroethene	0.10 ppbv (U)	09/06/2018 02:00 AM	DACLEMENS	EPA TO15
X75354 1,1-Dichloroethene	0.403 ug/m^3 (U)	09/06/2018 02:00 AM	DACLEMENS	EPA TO15
107062 1,2-Dichloroethane	0.10 ppbv (U)	09/06/2018 02:00 AM	DACLEMENS	EPA TO15
X107062 1,2-Dichloroethane	0.411 ug/m^3 (U)	09/06/2018 02:00 AM	DACLEMENS	EPA TO15
X75014 Chloroethene	0.260 ug/m^3 (U)	09/06/2018 02:00 AM	DACLEMENS	EPA TO15
75014 Chloroethene (vinyl chloride)	0.10 ppbv (U)	09/06/2018 02:00 AM	DACLEMENS	EPA TO15
156592 cis-1,2-Dichloroethene	0.10 ppbv (U)	09/06/2018 02:00 AM	DACLEMENS	EPA TO15
X156592 cis-1,2-Dichloroethene	0.403 ug/m^3 (U)	09/06/2018 02:00 AM	DACLEMENS	EPA TO15
CLEAN SUMMA	05082018 Day	09/06/2018 02:00 AM	DACLEMENS	EPA TO15
Summa Press	13.70000	09/06/2018 02:00 AM	DACLEMENS	EPA TO15
127184 Tetrachloroethene	0.10 ppbv (U)	09/06/2018 02:00 AM	DACLEMENS	EPA TO15
X127184 Tetrachloroethene	0.689 ug/m^3 (U)	09/06/2018 02:00 AM	DACLEMENS	EPA TO15
156605 trans-1,2-Dichloroethene	0.10 ppbv (U)	09/06/2018 02:00 AM	DACLEMENS	EPA TO15
X156605 trans-1,2-Dichloroethene	0.403 ug/m^3 (U)	09/06/2018 02:00 AM	DACLEMENS	EPA TO15
79016 Trichloroethene	0.10 ppbv (U)	09/06/2018 02:00 AM	DACLEMENS	EPA TO15
X79016 Trichloroethene	0.546 ug/m^3 (U)	09/06/2018 02:00 AM	DACLEMENS	EPA TO15

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Q - This flag identifies the average of multiple results from multiple analyses, or the average of the averages of dual column analysis methods.

X - Non-target analytes co-elute with compound. Identification unable to be confirmed.

Date of Issue: 09/19/2018 04:09:57

DEP Bureau of Laboratories - Harrisburg
P.O. Box 1467
2575 Interstate Drive
Harrisburg, PA 17105-1467

Contact Phone Number: (717) 346-7200

NELAP - accredited by

NJ DEP - Laboratory Number: PA059
PA DEP LAP - DEP Lab ID: 22-00223

Analytical Report For
Environmental Cleanup

Sample ID: 2128 003 **Date Collected:** 08/30/2018 04:43:00 PM **Lab Sample ID:** O2018005883 **Status:** Completed

Name of Sample Collector: Dustin Armstrong
Date Received: 09/05/2018

County: Bucks **State:**
Municipality: Nockamixon Twp
77 BRENNAN ROAD

Sample Medium: Soil Gas
Sample Medium Type: Air (Gas)

Location: SG-7 (at corner of fenced pasture)
Reason: Routine Sampling
Project: NOCK TCE Nockamixon TCE HSCA SITE
Suite: CVOCA
Matrix: Summa Canister

Stream Condition:

Sample Comment: 30-minute sample
Sample Standard Comment: Accredited by NJ only - accreditation not available from PA

Test Codes / CAS # - Description	Reported Results	Date And Time Analyzed	Approved by	Test Method
71556 1,1,1-Trichloroethane	0.10 ppbv (U)	09/06/2018 02:00 AM	DACLEMENS	EPA TO15
X71556 1,1,1-Trichloroethane	0.555 ug/m^3 (U)	09/06/2018 02:00 AM	DACLEMENS	EPA TO15

Analytical Report For
Environmental Cleanup

Sample ID: 2128 003 **Date Collected:** 08/30/2018 04:43:00 PM **Lab Sample ID:** O2018005883 **Status:** Completed

Test Codes / CAS # - Description	Reported Results	Date And Time Analyzed	Approved by	Test Method
79005 1,1,2-Trichloroethane	0.10 ppbv (U)	09/06/2018 02:00 AM	DACLEMENS	EPA TO15
X79005 1,1,2-Trichloroethane	0.555 ug/m^3 (U)	09/06/2018 02:00 AM	DACLEMENS	EPA TO15
75343 1,1-Dichloroethane	0.10 ppbv (U)	09/06/2018 02:00 AM	DACLEMENS	EPA TO15
X75343 1,1-Dichloroethane	0.407 ug/m^3 (U)	09/06/2018 02:00 AM	DACLEMENS	EPA TO15
75354 1,1-Dichloroethene	0.10 ppbv (U)	09/06/2018 02:00 AM	DACLEMENS	EPA TO15
X75354 1,1-Dichloroethene	0.403 ug/m^3 (U)	09/06/2018 02:00 AM	DACLEMENS	EPA TO15
107062 1,2-Dichloroethane	0.10 ppbv (U)	09/06/2018 02:00 AM	DACLEMENS	EPA TO15
X107062 1,2-Dichloroethane	0.411 ug/m^3 (U)	09/06/2018 02:00 AM	DACLEMENS	EPA TO15
X75014 Chloroethene	0.260 ug/m^3 (U)	09/06/2018 02:00 AM	DACLEMENS	EPA TO15
75014 Chloroethene (vinyl chloride)	0.10 ppbv (U)	09/06/2018 02:00 AM	DACLEMENS	EPA TO15
156592 cis-1,2-Dichloroethene	0.10 ppbv (U)	09/06/2018 02:00 AM	DACLEMENS	EPA TO15
X156592 cis-1,2-Dichloroethene	0.403 ug/m^3 (U)	09/06/2018 02:00 AM	DACLEMENS	EPA TO15
CLEAN SUMMA	05082018 Day	09/06/2018 02:00 AM	DACLEMENS	EPA TO15
Summa Press	13.00000	09/06/2018 02:00 AM	DACLEMENS	EPA TO15
127184 Tetrachloroethene	0.10 ppbv (U)	09/06/2018 02:00 AM	DACLEMENS	EPA TO15
X127184 Tetrachloroethene	0.689 ug/m^3 (U)	09/06/2018 02:00 AM	DACLEMENS	EPA TO15
156605 trans-1,2-Dichloroethene	0.10 ppbv (U)	09/06/2018 02:00 AM	DACLEMENS	EPA TO15
X156605 trans-1,2-Dichloroethene	0.403 ug/m^3 (U)	09/06/2018 02:00 AM	DACLEMENS	EPA TO15
79016 Trichloroethene	0.10 ppbv (U)	09/06/2018 02:00 AM	DACLEMENS	EPA TO15
X79016 Trichloroethene	0.546 ug/m^3 (U)	09/06/2018 02:00 AM	DACLEMENS	EPA TO15

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Taru Upadhyay, Technical Director, Bureau of Laboratories

ORGANICS LABORATORY QUALIFIERS

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Date of Issue: 10/02/2019 04:02:33

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2575 Interstate Drive
Harrisburg, PA 17105-1467

Contact Phone Number: (717) 346-7200

NELAP - accredited by

NJ DEP - Laboratory Number: PA059
PA DEP LAP - DEP Lab ID: 22-00223

Analytical Report For
Environmental Cleanup

Sample ID: 2128 007 **Date Collected:** 09/12/2019 05:05:00 PM **Lab Sample ID:** O2019006366 **Status:** Completed

Name of Sample Collector: Dustin Armstrong
Date Received: 09/20/2019

County: Bucks **State:**
Municipality: Nockamixon Twp
338 PARK DRIVE WEST

Sample Medium: Soil Gas
Sample Medium Type: Air (Gas)

Location: SG-10
Reason: Routine Sampling
Project: NOCK TCE Nockamixon TCE HSCA SITE
Suite: CVOCA
Matrix: Summa Canister

Stream Condition:

Sample Comment: 30 min Regulator
Sample Standard Comment: Accredited by NJ only - accreditation not available from PA

Test Codes / CAS # - Description	Reported Results	Date And Time Analyzed	Approved by	Test Method
X71556 1,1,1-Trichloroethane	2.04 ug/m^3	09/25/2019 02:00 AM	DACLEMENS	EPA TO15
71556 1,1,1-Trichloroethane	0.367 ppbv	09/25/2019 02:00 AM	DACLEMENS	EPA TO15

Analytical Report For
Environmental Cleanup

Sample ID: 2128 007 **Date Collected:** 09/12/2019 05:05:00 PM **Lab Sample ID:** O2019006366 **Status:** Completed

Test Codes / CAS # - Description	Reported Results	Date And Time Analyzed	Approved by	Test Method
X79005 1,1,2-Trichloroethane	0.555 ug/m^3 (U)	09/25/2019 02:00 AM	DACLEMENS	EPA TO15
79005 1,1,2-Trichloroethane	0.100 ppbv (U)	09/25/2019 02:00 AM	DACLEMENS	EPA TO15
X75343 1,1-Dichloroethane	0.407 ug/m^3 (U)	09/25/2019 02:00 AM	DACLEMENS	EPA TO15
75343 1,1-Dichloroethane	0.100 ppbv (U)	09/25/2019 02:00 AM	DACLEMENS	EPA TO15
X75354 1,1-Dichloroethene	0.798 ug/m^3	09/25/2019 02:00 AM	DACLEMENS	EPA TO15
75354 1,1-Dichloroethene	0.198 ppbv	09/25/2019 02:00 AM	DACLEMENS	EPA TO15
X107062 1,2-Dichloroethane	0.411 ug/m^3 (U)	09/25/2019 02:00 AM	DACLEMENS	EPA TO15
107062 1,2-Dichloroethane	0.100 ppbv (U)	09/25/2019 02:00 AM	DACLEMENS	EPA TO15
X75014 Chloroethene (vinyl chloride)	0.260 ug/m^3 (U)	09/25/2019 02:00 AM	DACLEMENS	EPA TO15
75014 Chloroethene (vinyl chloride)	0.100 ppbv (U)	09/25/2019 02:00 AM	DACLEMENS	EPA TO15
X156592 cis-1,2-Dichloroethene	1.56 ug/m^3	09/25/2019 02:00 AM	DACLEMENS	EPA TO15
156592 cis-1,2-Dichloroethene	0.386 ppbv	09/25/2019 02:00 AM	DACLEMENS	EPA TO15
Summa can pressure at receipt	11.70000	09/25/2019 02:00 AM	DACLEMENS	EPA TO15
Summa canister cleaning date	06132019 Day	09/25/2019 02:00 AM	DACLEMENS	EPA TO15
X127184 Tetrachloroethene	1.98 ug/m^3	09/25/2019 02:00 AM	DACLEMENS	EPA TO15
127184 Tetrachloroethene	0.288 ppbv	09/25/2019 02:00 AM	DACLEMENS	EPA TO15
X156605 trans-1,2-Dichloroethene	0.403 ug/m^3 (U)	09/25/2019 02:00 AM	DACLEMENS	EPA TO15
156605 trans-1,2-Dichloroethene	0.100 ppbv (U)	09/25/2019 02:00 AM	DACLEMENS	EPA TO15
X79016 Trichloroethene	6.28 ug/m^3	09/25/2019 02:00 AM	DACLEMENS	EPA TO15
79016 Trichloroethene	1.15 ppbv	09/25/2019 02:00 AM	DACLEMENS	EPA TO15

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Taru Upadhyay, Technical Director, Bureau of Laboratories

ORGANICS LABORATORY QUALIFIERS

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X - Non-target analytes co-elute with compound. Identification unable to be confirmed.

Date of Issue: 10/17/2019 04:02:56

DEP Bureau of Laboratories - Harrisburg
P.O. Box 1467
2575 Interstate Drive
Harrisburg, PA 17105-1467

Contact Phone Number: (717) 346-7200

NELAP - accredited by

NJ DEP - Laboratory Number: PA059
PA DEP LAP - DEP Lab ID: 22-00223

Analytical Report For
Environmental Cleanup

Sample ID: 2128 005 **Date Collected:** 09/12/2019 02:25:00 PM **Lab Sample ID:** O2019006364 **Status:** Completed

Name of Sample Collector: Dustin Armstrong
Date Received: 09/20/2019

County: Bucks **State:**
Municipality: Nockamixon Twp
65 BRENNAN ROAD

Sample Medium: Soil Gas
Sample Medium Type: Air (Gas)

Location: SG-11 (Near Garden/Tree Line)
Reason: Routine Sampling
Project: NOCK TCE Nockamixon TCE HSCA SITE
Suite: CVOCA
Matrix: Summa Canister

Stream Condition:

Sample Comment: 30 min Regulator
Sample Standard Comment: Accredited by NJ only - accreditation not available from PA
Sample Lab Comment: This is a revised report

Test Codes / CAS # - Description	Reported Results	Date And Time Analyzed	Approved by	Test Method
X71556 1,1,1-Trichloroethane	16.3 ug/m^3	09/24/2019 02:00 AM	JUBLACK	EPA TO15

Analytical Report For
Environmental Cleanup

Sample ID: 2128 005 **Date Collected:** 09/12/2019 02:25:00 PM **Lab Sample ID:** O2019006364 **Status:** Completed

Test Codes / CAS # - Description	Reported Results	Date And Time Analyzed	Approved by	Test Method
71556 1,1,1-Trichloroethane	2.94 ppbv	09/24/2019 02:00 AM	BLAZESERVICE	EPA TO15
X79005 1,1,2-Trichloroethane	0.555 ug/m^3 (U)	09/24/2019 02:00 AM	JUBLACK	EPA TO15
79005 1,1,2-Trichloroethane	0.100 ppbv (U)	09/24/2019 02:00 AM	BLAZESERVICE	EPA TO15
X75343 1,1-Dichloroethane	0.407 ug/m^3 (U)	09/24/2019 02:00 AM	JUBLACK	EPA TO15
75343 1,1-Dichloroethane	0.100 ppbv (U)	09/24/2019 02:00 AM	BLAZESERVICE	EPA TO15
X75354 1,1-Dichloroethene	7.17 ug/m^3	09/24/2019 02:00 AM	JUBLACK	EPA TO15
75354 1,1-Dichloroethene	1.78 ppbv	09/24/2019 02:00 AM	BLAZESERVICE	EPA TO15
X107062 1,2-Dichloroethane	0.411 ug/m^3 (U)	09/24/2019 02:00 AM	JUBLACK	EPA TO15
107062 1,2-Dichloroethane	0.100 ppbv (U)	09/24/2019 02:00 AM	BLAZESERVICE	EPA TO15
X75014 Chloroethene (vinyl chloride)	0.351 ug/m^3	09/24/2019 02:00 AM	JUBLACK	EPA TO15
75014 Chloroethene (vinyl chloride)	0.135 ppbv	09/24/2019 02:00 AM	BLAZESERVICE	EPA TO15
X156592 cis-1,2-Dichloroethene	13.7 ug/m^3	09/24/2019 02:00 AM	JUBLACK	EPA TO15
156592 cis-1,2-Dichloroethene	3.41 ppbv	09/24/2019 02:00 AM	BLAZESERVICE	EPA TO15
Summa can pressure at receipt	12.60000	09/24/2019 02:00 AM	JUBLACK	EPA TO15
Summa canister cleaning date	06132019 Day	09/24/2019 02:00 AM	JUBLACK	EPA TO15
X127184 Tetrachloroethene	99.9 ug/m^3	09/24/2019 02:00 AM	JUBLACK	EPA TO15
127184 Tetrachloroethene	14.5 ppbv	09/24/2019 02:00 AM	BLAZESERVICE	EPA TO15
X156605 trans-1,2-Dichloroethene	0.403 ug/m^3	09/24/2019 02:00 AM	BLAZESERVICE	EPA TO15
156605 trans-1,2-Dichloroethene	.100 ppbv	09/24/2019 02:00 AM	BLAZESERVICE	EPA TO15
X79016 Trichloroethene	51.0 ug/m^3	09/24/2019 02:00 AM	JUBLACK	EPA TO15
79016 Trichloroethene	9.34 ppbv	09/24/2019 02:00 AM	BLAZESERVICE	EPA TO15

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Taru Upadhyay, Technical Director, Bureau of Laboratories

ORGANICS LABORATORY QUALIFIERS

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X - Non-target analytes co-elute with compound. Identification unable to be confirmed.

Date of Issue: 10/02/2019 04:10:05

DEP Bureau of Laboratories - Harrisburg
P.O. Box 1467
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Harrisburg, PA 17105-1467

Contact Phone Number: (717) 346-7200

NELAP - accredited by

NJ DEP - Laboratory Number: PA059
PA DEP LAP - DEP Lab ID: 22-00223

Analytical Report For
Environmental Cleanup

Sample ID: 2128 002 **Date Collected:** 09/12/2019 10:10:00 AM **Lab Sample ID:** O2019006361 **Status:** Completed

Name of Sample Collector: Dustin Armstrong
Date Received: 09/20/2019

County: Bucks **State:**
Municipality: Nockamixon Twp

Sample Medium: Soil Gas
Sample Medium Type: Air (Gas)

Location: SG-12 (Kind Earth Growers Property)
Reason: Routine Sampling
Project: NOCK TCE Nockamixon TCE HSCA SITE
Suite: CVOCA
Matrix: Summa Canister

Stream Condition:

Sample Comment: 30 min. Regulator
Sample Standard Comment: Accredited by NJ only - accreditation not available from PA

Test Codes / CAS # - Description	Reported Results	Date And Time Analyzed	Approved by	Test Method
71556 1,1,1-Trichloroethane	0.100 ppbv (U)	09/24/2019 02:00 AM	DACLEMENS	EPA TO15
X71556 1,1,1-Trichloroethane	0.555 ug/m^3 (U)	09/24/2019 02:00 AM	DACLEMENS	EPA TO15
X79005 1,1,2-Trichloroethane	0.555 ug/m^3 (U)	09/24/2019 02:00 AM	DACLEMENS	EPA TO15

Analytical Report For
Environmental Cleanup

Sample ID: 2128 002 **Date Collected:** 09/12/2019 10:10:00 AM **Lab Sample ID:** O2019006361 **Status:** Completed

Test Codes / CAS # - Description	Reported Results	Date And Time Analyzed	Approved by	Test Method
79005 1,1,2-Trichloroethane	0.100 ppbv (U)	09/24/2019 02:00 AM	DACLEMENS	EPA TO15
X75343 1,1-Dichloroethane	0.407 ug/m^3 (U)	09/24/2019 02:00 AM	DACLEMENS	EPA TO15
75343 1,1-Dichloroethane	0.100 ppbv (U)	09/24/2019 02:00 AM	DACLEMENS	EPA TO15
75354 1,1-Dichloroethene	0.100 ppbv (U)	09/24/2019 02:00 AM	DACLEMENS	EPA TO15
X75354 1,1-Dichloroethene	0.403 ug/m^3 (U)	09/24/2019 02:00 AM	DACLEMENS	EPA TO15
107062 1,2-Dichloroethane	0.138 ppbv	09/24/2019 02:00 AM	DACLEMENS	EPA TO15
X107062 1,2-Dichloroethane	0.567 ug/m^3	09/24/2019 02:00 AM	DACLEMENS	EPA TO15
75014 Chloroethene (vinyl chloride)	0.100 ppbv (U)	09/24/2019 02:00 AM	DACLEMENS	EPA TO15
X75014 Chloroethene (vinyl chloride)	0.260 ug/m^3 (U)	09/24/2019 02:00 AM	DACLEMENS	EPA TO15
156592 cis-1,2-Dichloroethene	0.100 ppbv (U)	09/24/2019 02:00 AM	DACLEMENS	EPA TO15
X156592 cis-1,2-Dichloroethene	0.403 ug/m^3 (U)	09/24/2019 02:00 AM	DACLEMENS	EPA TO15
Summa can pressure at receipt	13.90000	09/24/2019 02:00 AM	DACLEMENS	EPA TO15
Summa canister cleaning date	05202019 Day	09/24/2019 02:00 AM	DACLEMENS	EPA TO15
127184 Tetrachloroethene	0.720 ppbv	09/24/2019 02:00 AM	DACLEMENS	EPA TO15
X127184 Tetrachloroethene	4.96 ug/m^3	09/24/2019 02:00 AM	DACLEMENS	EPA TO15
156605 trans-1,2-Dichloroethene	0.100 ppbv (U)	09/24/2019 02:00 AM	DACLEMENS	EPA TO15
X156605 trans-1,2-Dichloroethene	0.403 ug/m^3 (U)	09/24/2019 02:00 AM	DACLEMENS	EPA TO15
79016 Trichloroethene	0.154 ppbv	09/24/2019 02:00 AM	DACLEMENS	EPA TO15
X79016 Trichloroethene	0.841 ug/m^3	09/24/2019 02:00 AM	DACLEMENS	EPA TO15

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