

DATA PACKAGE

GC SEMI-VOLATILES

PROJECT NAME : PSEG ATHENIA SUBSTATION

MATRIX NEW WORLD ENGINEERING

26 Columbia Turnpike

Florham Park, NJ - 07932

Phone No: 973-240-1800

ORDER ID : Q3437

ATTENTION : Christopher Pittarese



Laboratory Certification ID # 20012



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DATA OF KNOWN QUALITY CONFORMANCE/NON-CONFORMANCE SUMMARY QUESTIONNAIRE

1

Laboratory Name : Alliance Technical Group LLC Client : Matrix New World Engineering
 Project Location : Clifton,NJ Project Number : 24-0935
 Laboratory Sample ID(s) : Q3437 Sampling Date(s) : 10/22/2025
 List DKQP Methods Used (e.g., 8260,8270, et Cetra) **8082A,SOP**

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the NJDEP Data of Known Quality performance standards?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified handling, preservation, and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1B	EPH Method: Was the EPH method conducted without significant modifications (see Section 11.3 of respective DKQ methods)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (4±2° C)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4	Were all QA/QC performance criteria specified in the NJDEP DKQP standards achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5	a)Were reporting limits specified or referenced on the chain-of-custody or communicated to the laboratory prior to sample receipt? b)Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the DKQP documents and/or site-specific QAPP?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
7	Are project-specific matrix spikes and/or laboratory duplicates included in this data set?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Notes: For all questions to which the response was “No” (with the exception of question #7), additional information should be provided in an attached narrative. If the answer to question #1, #1A, or #1B is “No”, the data package does not meet the requirements for “Data of Known Quality.”

Cover Page

Order ID : Q3437

Project ID : PSEG Athenia Substation

Client : Matrix New World Engineering

Lab Sample Number

Q3437-03
Q3437-05
Q3437-11
Q3437-14
Q3437-15
Q3437-16

Client Sample Number

SS-15R(2.0-2.5)
SS-26(0-0.5)
SS-27(0-0.5)
SS-25(0-0.5)
SS-32(0-0.5)
SS-23(0-0.5)

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature :

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 9:49 am, Nov 12, 2025

Date: 11/12/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Matrix New World Engineering

Project Name: PSEG Athenia Substation

Project # N/A

Order ID # Q3437

Test Name: PCB

A. Number of Samples and Date of Receipt:

6 Solid samples were received on 10/22/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: PCB. This data package contains results for PCB.

C. Analytical Techniques:

The analyses were performed on instrument GCECD_Q. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0.5 um df, Catalogue # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 µm; Catalogue # 7HM-G017-11. The analyses were performed on instrument GCECD_P. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0.5 um df, Catalogue # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 µm; Catalogue # 7HM-G017-11. The analyses were performed on instrument GCECD_O. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0.5 um df, Catalogue # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 µm; Catalogue # 7HM-G017-11. The analysis of PCBs was based on method 8082A and extraction was done based on method 3541.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries were met for all analysis.

The Retention Times were met for all analysis.

The MS recoveries met the requirements for all compounds.

The MSD recoveries met the requirements for all compounds.

The RPD were met for all analysis.

The Blank Spike met requirements for all compounds.

The Blank analysis did not indicate the presence of lab contamination.

The Initial Calibration met the requirements.

The Continuous Calibration File ID PO114667.D met the requirements except for Aroclor-1260(Peak-04) is failing in 2nd column however it is passing in 1st column therefore no corrective action taken.

Sample SS-25(0-0.5) was diluted due to high concentration.



284 Sheffield Street, Mountainside, NJ 07092
Phone: 908 789 8900 Fax: 908 789 8922

E. Additional Comments:

The soil samples results are based on a dry weight basis.

F. Manual Integration Comments:

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 9:50 am, Nov 12, 2025

Signature_____

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following “ Results Qualifiers” are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. “10 U”. This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value. This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as “12 B”.
E	Indicates the analyte ‘s concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a “P”.
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q3437

Completed

For thorough review, the report must have the following:

GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Custody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 11/12/2025

Hit Summary Sheet SW-846

SDG No.: Q3437

Order ID: Q3437

Client: Matrix New World Engineering

Project ID: PSEG Athenia Substation

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : Q3437-03	SS-15R(2.0-2.5) SS-15R(2.0-2.5)	SOIL	Aroclor-1254	15.2 J	3.70		19.4	ug/kg
			Total Concentration:	15.200				
Client ID : Q3437-05	SS-26(0-0.5) SS-26(0-0.5)	SOIL	Aroclor-1254	168	3.60		19.2	ug/kg
			Total Concentration:	168.000				
Client ID : Q3437-11	SS-27(0-0.5) SS-27(0-0.5)	SOIL	Aroclor-1254	50.1	3.40		18.2	ug/kg
			Total Concentration:	50.100				
Client ID : Q3437-14	SS-25(0-0.5) SS-25(0-0.5)	SOIL	Aroclor-1254	796 E	3.60		19.0	ug/kg
			Total Concentration:	796.000				
Client ID : Q3437-14DL	SS-25(0-0.5)DL SS-25(0-0.5)DL	SOIL	Aroclor-1254	635 D	17.9		94.8	ug/kg
			Total Concentration:	635.000				
Client ID : Q3437-15	SS-32(0-0.5) SS-32(0-0.5)	SOIL	Aroclor-1254	29.6	3.70		19.6	ug/kg
			Total Concentration:	29.600				
Client ID : Q3437-16	SS-23(0-0.5) SS-23(0-0.5)	SOIL	Aroclor-1254	9.00 J	3.40		18.2	ug/kg
			Total Concentration:	9.000				



SAMPLE DATA

Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	10/22/25
Project:	PSEG Athenia Substation	Date Received:	10/22/25
Client Sample ID:	SS-15R(2.0-2.5)	SDG No.:	Q3437
Lab Sample ID:	Q3437-03	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	87.4
Sample Wt/Vol:	30.06 g	Final Vol:	10000 uL
Prep Method:	SW3541B	Test:	PCB
	Prep Date:	10/23/25	

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
12674-11-2	Aroclor-1016	4.50	U	1	4.50	19.4	ug/kg	10/24/25 11:07	PB170234
11104-28-2	Aroclor-1221	4.60	U	1	4.60	19.4	ug/kg	10/24/25 11:07	PB170234
11141-16-5	Aroclor-1232	4.20	U	1	4.20	19.4	ug/kg	10/24/25 11:07	PB170234
53469-21-9	Aroclor-1242	4.60	U	1	4.60	19.4	ug/kg	10/24/25 11:07	PB170234
12672-29-6	Aroclor-1248	6.80	U	1	6.80	19.4	ug/kg	10/24/25 11:07	PB170234
11097-69-1	Aroclor-1254	15.2	J	1	3.70	19.4	ug/kg	10/24/25 11:07	PB170234
37324-23-5	Aroclor-1262	5.70	U	1	5.70	19.4	ug/kg	10/24/25 11:07	PB170234
11100-14-4	Aroclor-1268	4.10	U	1	4.10	19.4	ug/kg	10/24/25 11:07	PB170234
11096-82-5	Aroclor-1260	3.70	U	1	3.70	19.4	ug/kg	10/24/25 11:07	PB170234
SURROGATES									
877-09-8	Tetrachloro-m-xylene	25.3			30 (32) - 150 (144)	127%	SPK: 20		
2051-24-3	Decachlorobiphenyl	21.7			30 (32) - 150 (175)	108%	SPK: 20		

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	10/22/25
Project:	PSEG Athenia Substation	Date Received:	10/22/25
Client Sample ID:	SS-26(0-0.5)	SDG No.:	Q3437
Lab Sample ID:	Q3437-05	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	88.4
Sample Wt/Vol:	30.03 g	Final Vol:	10000 uL
Prep Method:	SW3541B	Test:	PCB
	Prep Date:	10/23/25	

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
12674-11-2	Aroclor-1016	4.50	U	1	4.50	19.2	ug/kg	10/24/25 11:23	PB170234
11104-28-2	Aroclor-1221	4.60	U	1	4.60	19.2	ug/kg	10/24/25 11:23	PB170234
11141-16-5	Aroclor-1232	4.20	U	1	4.20	19.2	ug/kg	10/24/25 11:23	PB170234
53469-21-9	Aroclor-1242	4.50	U	1	4.50	19.2	ug/kg	10/24/25 11:23	PB170234
12672-29-6	Aroclor-1248	6.70	U	1	6.70	19.2	ug/kg	10/24/25 11:23	PB170234
11097-69-1	Aroclor-1254	168		1	3.60	19.2	ug/kg	10/24/25 11:23	PB170234
37324-23-5	Aroclor-1262	5.70	U	1	5.70	19.2	ug/kg	10/24/25 11:23	PB170234
11100-14-4	Aroclor-1268	4.10	U	1	4.10	19.2	ug/kg	10/24/25 11:23	PB170234
11096-82-5	Aroclor-1260	3.70	U	1	3.70	19.2	ug/kg	10/24/25 11:23	PB170234
SURROGATES									
877-09-8	Tetrachloro-m-xylene	25.1			30 (32) - 150 (144)	125%	SPK: 20		
2051-24-3	Decachlorobiphenyl	21.6			30 (32) - 150 (175)	108%	SPK: 20		

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Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	10/22/25
Project:	PSEG Athenia Substation	Date Received:	10/22/25
Client Sample ID:	SS-27(0-0.5)	SDG No.:	Q3437
Lab Sample ID:	Q3437-11	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	93.6
Sample Wt/Vol:	30.02 g	Final Vol:	10000 uL
Prep Method:	SW3541B	Test:	PCB
	Prep Date:	10/23/25	

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
12674-11-2	Aroclor-1016	4.20	U	1	4.20	18.2	ug/kg	10/24/25 11:39	PB170234
11104-28-2	Aroclor-1221	4.30	U	1	4.30	18.2	ug/kg	10/24/25 11:39	PB170234
11141-16-5	Aroclor-1232	4.00	U	1	4.00	18.2	ug/kg	10/24/25 11:39	PB170234
53469-21-9	Aroclor-1242	4.30	U	1	4.30	18.2	ug/kg	10/24/25 11:39	PB170234
12672-29-6	Aroclor-1248	6.30	U	1	6.30	18.2	ug/kg	10/24/25 11:39	PB170234
11097-69-1	Aroclor-1254	50.1		1	3.40	18.2	ug/kg	10/24/25 11:39	PB170234
37324-23-5	Aroclor-1262	5.40	U	1	5.40	18.2	ug/kg	10/24/25 11:39	PB170234
11100-14-4	Aroclor-1268	3.80	U	1	3.80	18.2	ug/kg	10/24/25 11:39	PB170234
11096-82-5	Aroclor-1260	3.40	U	1	3.40	18.2	ug/kg	10/24/25 11:39	PB170234
SURROGATES									
877-09-8	Tetrachloro-m-xylene	23.8			30 (32) - 150 (144)	119%	SPK: 20		
2051-24-3	Decachlorobiphenyl	26.0			30 (32) - 150 (175)	130%	SPK: 20		

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Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	10/22/25
Project:	PSEG Athenia Substation	Date Received:	10/22/25
Client Sample ID:	SS-25(0-0.5)	SDG No.:	Q3437
Lab Sample ID:	Q3437-14	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	89.4
Sample Wt/Vol:	30.08 g	Final Vol:	10000 uL
Prep Method:	SW3541B	Test:	PCB
	Prep Date:		10/23/25

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
12674-11-2	Aroclor-1016	4.40	U	1	4.40	19.0	ug/kg	10/24/25 10:42	PB170234
11104-28-2	Aroclor-1221	4.50	U	1	4.50	19.0	ug/kg	10/24/25 10:42	PB170234
11141-16-5	Aroclor-1232	4.20	U	1	4.20	19.0	ug/kg	10/24/25 10:42	PB170234
53469-21-9	Aroclor-1242	4.50	U	1	4.50	19.0	ug/kg	10/24/25 10:42	PB170234
12672-29-6	Aroclor-1248	6.60	U	1	6.60	19.0	ug/kg	10/24/25 10:42	PB170234
11097-69-1	Aroclor-1254	796	E	1	3.60	19.0	ug/kg	10/24/25 10:42	PB170234
37324-23-5	Aroclor-1262	5.60	U	1	5.60	19.0	ug/kg	10/24/25 10:42	PB170234
11100-14-4	Aroclor-1268	4.00	U	1	4.00	19.0	ug/kg	10/24/25 10:42	PB170234
11096-82-5	Aroclor-1260	3.60	U	1	3.60	19.0	ug/kg	10/24/25 10:42	PB170234
SURROGATES									
877-09-8	Tetrachloro-m-xylene	27.9			30 (32) - 150 (144)	140%	SPK: 20		
2051-24-3	Decachlorobiphenyl	22.1			30 (32) - 150 (175)	111%	SPK: 20		

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Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	10/22/25
Project:	PSEG Athenia Substation	Date Received:	10/22/25
Client Sample ID:	SS-25(0-0.5)DL	SDG No.:	Q3437
Lab Sample ID:	Q3437-14DL	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	89.4
Sample Wt/Vol:	30.08 g	Final Vol:	10000 uL
Prep Method:	SW3541B	Test:	PCB
	Prep Date:		10/23/25

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
12674-11-2	Aroclor-1016	22.0	UD	5	22.0	94.8	ug/kg	10/24/25 11:37	PB170234
11104-28-2	Aroclor-1221	22.5	UD	5	22.5	94.8	ug/kg	10/24/25 11:37	PB170234
11141-16-5	Aroclor-1232	20.8	UD	5	20.8	94.8	ug/kg	10/24/25 11:37	PB170234
53469-21-9	Aroclor-1242	22.4	UD	5	22.4	94.8	ug/kg	10/24/25 11:37	PB170234
12672-29-6	Aroclor-1248	33.0	UD	5	33.0	94.8	ug/kg	10/24/25 11:37	PB170234
11097-69-1	Aroclor-1254	635	D	5	17.9	94.8	ug/kg	10/24/25 11:37	PB170234
37324-23-5	Aroclor-1262	28.0	UD	5	28.0	94.8	ug/kg	10/24/25 11:37	PB170234
11100-14-4	Aroclor-1268	20.1	UD	5	20.1	94.8	ug/kg	10/24/25 11:37	PB170234
11096-82-5	Aroclor-1260	18.0	UD	5	18.0	94.8	ug/kg	10/24/25 11:37	PB170234
SURROGATES									
877-09-8	Tetrachloro-m-xylene	22.0			30 (32) - 150 (144)	110%	SPK: 20		
2051-24-3	Decachlorobiphenyl	19.9			30 (32) - 150 (175)	100%	SPK: 20		

U = Not Detected

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M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

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* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	10/22/25
Project:	PSEG Athenia Substation	Date Received:	10/22/25
Client Sample ID:	SS-32(0-0.5)	SDG No.:	Q3437
Lab Sample ID:	Q3437-15	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	86.5
Sample Wt/Vol:	30.06 g	Final Vol:	10000 uL
Prep Method:	SW3541B	Test:	PCB
	Prep Date:		10/31/25

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
12674-11-2	Aroclor-1016	4.60	U	1	4.60	19.6	ug/kg	10/31/25 23:23	PB170358
11104-28-2	Aroclor-1221	4.60	U	1	4.60	19.6	ug/kg	10/31/25 23:23	PB170358
11141-16-5	Aroclor-1232	4.30	U	1	4.30	19.6	ug/kg	10/31/25 23:23	PB170358
53469-21-9	Aroclor-1242	4.60	U	1	4.60	19.6	ug/kg	10/31/25 23:23	PB170358
12672-29-6	Aroclor-1248	6.80	U	1	6.80	19.6	ug/kg	10/31/25 23:23	PB170358
11097-69-1	Aroclor-1254	29.6		1	3.70	19.6	ug/kg	10/31/25 23:23	PB170358
37324-23-5	Aroclor-1262	5.80	U	1	5.80	19.6	ug/kg	10/31/25 23:23	PB170358
11100-14-4	Aroclor-1268	4.20	U	1	4.20	19.6	ug/kg	10/31/25 23:23	PB170358
11096-82-5	Aroclor-1260	3.70	U	1	3.70	19.6	ug/kg	10/31/25 23:23	PB170358
SURROGATES									
877-09-8	Tetrachloro-m-xylene	20.6			30 (32) - 150 (144)	103%	SPK: 20		
2051-24-3	Decachlorobiphenyl	21.0			30 (32) - 150 (175)	105%	SPK: 20		

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Report of Analysis

Client:	Matrix New World Engineering	Date Collected:	10/22/25
Project:	PSEG Athenia Substation	Date Received:	10/22/25
Client Sample ID:	SS-23(0-0.5)	SDG No.:	Q3437
Lab Sample ID:	Q3437-16	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	93.5
Sample Wt/Vol:	30.04 g	Final Vol:	10000 uL
Prep Method:	SW3541B	Test:	PCB
	Prep Date:	10/23/25	

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
12674-11-2	Aroclor-1016	4.20	U	1	4.20	18.2	ug/kg	10/27/25 10:54	PB170234
11104-28-2	Aroclor-1221	4.30	U	1	4.30	18.2	ug/kg	10/27/25 10:54	PB170234
11141-16-5	Aroclor-1232	4.00	U	1	4.00	18.2	ug/kg	10/27/25 10:54	PB170234
53469-21-9	Aroclor-1242	4.30	U	1	4.30	18.2	ug/kg	10/27/25 10:54	PB170234
12672-29-6	Aroclor-1248	6.30	U	1	6.30	18.2	ug/kg	10/27/25 10:54	PB170234
11097-69-1	Aroclor-1254	9.00	J	1	3.40	18.2	ug/kg	10/27/25 10:54	PB170234
37324-23-5	Aroclor-1262	5.40	U	1	5.40	18.2	ug/kg	10/27/25 10:54	PB170234
11100-14-4	Aroclor-1268	3.80	U	1	3.80	18.2	ug/kg	10/27/25 10:54	PB170234
11096-82-5	Aroclor-1260	3.40	U	1	3.40	18.2	ug/kg	10/27/25 10:54	PB170234
SURROGATES									
877-09-8	Tetrachloro-m-xylene	29.0			30 (32) - 150 (144)	145%	SPK: 20		
2051-24-3	Decachlorobiphenyl	27.5			30 (32) - 150 (175)	138%	SPK: 20		

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

LAB CHRONICLE

OrderID:	Q3437	OrderDate:	10/22/2025 5:17:05 PM
Client:	Matrix New World Engineering	Project:	PSEG Athenia Substation
Contact:	Christopher Pittarese	Location:	D31

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3437-03	SS-15R(2.0-2.5)	SOIL			10/22/25			10/22/25
			PCB	8082A		10/23/25	10/24/25	
Q3437-05	SS-26(0-0.5)	SOIL			10/22/25			10/22/25
			PCB	8082A		10/23/25	10/24/25	
Q3437-11	SS-27(0-0.5)	SOIL			10/22/25			10/22/25
			PCB	8082A		10/23/25	10/24/25	
Q3437-14	SS-25(0-0.5)	SOIL			10/22/25			10/22/25
			PCB	8082A		10/23/25	10/24/25	
Q3437-14DL	SS-25(0-0.5)DL	SOIL			10/22/25			10/22/25
			PCB	8082A		10/23/25	10/24/25	
Q3437-15	SS-32(0-0.5)	SOIL			10/22/25			10/22/25
			PCB	8082A		10/31/25	10/31/25	
Q3437-16	SS-23(0-0.5)	SOIL			10/22/25			10/22/25
			PCB	8082A		10/23/25	10/27/25	



SHIPPING DOCUMENTS

CLIENT INFORMATION

CLIENT PROJECT INFORMATION

CLIENT BILLING INFORMATION

REPORT TO BE SENT TO:
COMPANY: Matrix New World Engineering
ADDRESS: 26 Columbia Turnpike
CITY Florham Park STATE: NJ ZIP: 07932
ATTENTION: Chris Pittarese
PHONE: 609-276-7217 FAX:

PROJECT NAME: PSEG Athenia Substation
PROJECT NO.: 24-0935 LOCATION: Clifton, NJ
PROJECT MANAGER: Chris Pittarese
e-mail: cpittarese@mnwe.com
PHONE: 609-276-7217 FAX:

BILL TO: Matrix PO#: 24-0935
ADDRESS: 26 Columbia Turnpike
CITY Florham Park STATE: NJ ZIP: 07932
ATTENTION: Chris Pittarese PHONE: 973-240-1800

ANALYSIS

DATA TURNAROUND INFORMATION

DATA DELIVERABLE INFORMATION

FAX (RUSH) 1 day DAYS*
HARDCOPY (DATA PACKAGE): 1 day DAYS*
EDD: 1 day DAYS*

*TO BE APPROVED BY CHEMTECH

STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☒ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B
+ Raw Data ☐ Other
☐ EDD FORMAT

PCBs

1 2 3 4 5 6 7 8 9

PRESERVATIVES

COMMENTS

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS		
			COMP	GRAB	DATE	TIME		E	1	2	3	4	5	6	7	8	9	← Specify Preservatives A-HCl B-HNO3 C-H2SO4	D-NaOH E-ICE F-OTHER
1.	SS-24 (2.0-2.5)	soil		X	10/22/25	1115	1	H											
2.	SS-24 (3.5-4.0)					1120		H											
3.	SS-15R (2.0-2.5)					1125		X											
4.	SS-15R (3.5-4.0)					1130		H											
5.	SS-26 (0-0.5)					1145		X											
6.	SS-26 (2.0-2.5)					1150		H											
7.	SS-26 (3.5-4.0)					1155		H											
8.	SS-33 (0-0.5)					1330		H											
9.	SS-33 (2.0-2.5)					1335		H											
10.	SS-33 (3.5-4.0)					1340		H											

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER: 1. J. Cavallaro	DATE/TIME: 1548 10/22/25	RECEIVED BY: 1. [Signature]
RELINQUISHED BY SAMPLER: 2.	DATE/TIME:	RECEIVED BY: 2.
RELINQUISHED BY SAMPLER: 3.	DATE/TIME:	RECEIVED BY: 3.

Conditions of bottles or coolers at receipt: <input type="checkbox"/> COMPLIANT <input type="checkbox"/> NON COMPLIANT <input type="checkbox"/> COOLER TEMP	21°C
Comments: X = Run H = Hold / Contingency	[Signature]
Page 1 of 2	CLIENT: <input type="checkbox"/> Hand Delivered <input type="checkbox"/> Other
	Shipment Complete <input type="checkbox"/> YES <input type="checkbox"/> NO

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: **Matrix New World**
ADDRESS: **26 Columbia Tpke**
CITY: **Florham Park** STATE: **NJ** ZIP: **07932**
ATTENTION: **Chris Pittarese**
PHONE: **609-276-7217** FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: **PSEG Athenia Substation**
PROJECT NO.: **24-0935** LOCATION: **Clifton, NJ**
PROJECT MANAGER: **Chris Pittarese**
e-mail: **cpittarese@mnwe.com**
PHONE: **609-276-7217** FAX:

CLIENT BILLING INFORMATION

BILL TO: **Matrix** PO#: **24-0935**
ADDRESS: **26 Columbia Tpke**
CITY: **Florham Park** STATE: **NJ** ZIP: **07932**
ATTENTION: **Chris Pittarese** PHONE: **973-240-1800**

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) **1 day** DAYS*
HARDCOPY (DATA PACKAGE): **1 day** DAYS*
EDD: **1 day** DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☒ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B
+ Raw Data) ☐ Other _____
☐ EDD FORMAT _____

PCBs

PRESERVATIVES

COMMENTS

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	E											← Specify Preservatives A-HCl B-HNO3 C-H2SO4 D-NaOH E-ICE F-OTHER
			COMP	GRAB	DATE	TIME													
			1	2	3	4		5	6	7	8	9							
1.	SS-27 (0-0.5)	Soil		X	10/22/25	1410	1	X											
2.	SS-27 (2.0-2.5	I		I		1415	I	H											
3.	SS-27 (3.5-4.0)			I		1420		H											
4.	SS-25 (0-0.5)	I		I		1215		X											
5.	SS-32 (0-0.5)			I		1230		H											
6.	SS-23 (0-0.5)					1210		X											
7.	SS-35 (0-0.5)	I		I	I	1235	I	H											
8.																			
9.																			
10.																			

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER: 1. Clavell	DATE/TIME: 10/22/25 1548	RECEIVED BY: 1. CR	Conditions of bottles or coolers at receipt: <input type="checkbox"/> COMPLIANT <input type="checkbox"/> NON COMPLIANT <input type="checkbox"/> COOLER TEMP 2.1 °C
RELINQUISHED BY SAMPLER: 2.	DATE/TIME:	RECEIVED BY: 2.	Comments: X = Run H = Hold / Contingency
RELINQUISHED BY SAMPLER: 3.	DATE/TIME:	RECEIVED BY: 3.	Page 2 of 2 CLIENT: <input type="checkbox"/> Hand Delivered <input type="checkbox"/> Other Shipment Complete <input type="checkbox"/> YES <input type="checkbox"/> NO

From: Christopher Pittarese <cpittarese@mnwe.com>
Sent: Thursday, October 30, 2025 8:27 PM
To: Yazmeen Gomez
Cc: Melanie Racaza
Subject: PSEG Athenia Substation

EXTERNAL EMAIL - This email was sent by a person from outside your organization. Exercise caution when clicking links, opening attachments or taking further action, before validating its authenticity.

Secured by Check Point

Hi Yazmeen-

Would you please submit the following contingency samples for analysis for PCBs on the same TAT provided on the initial run of samples? Please see notes below regarding lab IDs and let me know if anything is unclear or if there are any questions. Thanks.

Matrix ID	Lab ID	Date Collected	Analysis	Note
SS-13R (4.5-5.0)	Q3450-06	10/23/2025	PCB	I believe this sample is on the login summary report with the same Matrix ID that is listed for Q3450-07; please double check IDs.
SS-13R (5.0-5.5)	Q3450-07	10/23/2025	PCB	
SS-10R (3.5-4.0)	Q3450-04	10/23/2025	PCB	
SS-22 (0.0-0.5)	Q3450-23	10/23/2025	PCB	
SS-22 (3.5-4.0)	Q3450-25	10/23/2025	PCB	
SS-32 (0-0.5)	Q3437-25	10/22/2025	PCB	Sample not shown on login summary, please double check lab ID

Chris Pittarese, LSRP
Senior Project Manager

Matrix New World Engineering
3600 Route 66, 4th Floor
Neptune, NJ 07753
P: 973.240.1800
D: 732.515.4942
C: 609.276.7217
F: 973.240.1818

MATRIXNEWORLD
A TRUE ENVIRONMENTAL COMPANY



Laboratory Certification

Certified By	License No.
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255425
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	TX-C25-00189
Virginia	460312