

DATA PACKAGE

GENERAL CHEMISTRY

PROJECT NAME : FT MEADE TIPTON AIRFIELD PARCEL RI - PO 0111169

WESTON SOLUTIONS

1400 Weston Way

PO Box 2653

West Chester, PA - 19380

Phone No: 610-701-7400

ORDER ID : P4605

ATTENTION : Nathan Fretz



Laboratory Certification ID # 20012



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Cover Page

Order ID : P4605

Project ID : Ft Meade Tipton Airfield Parcel RI - PO 0111169

Client : Weston Solutions

Lab Sample Number

P4605-01
P4605-02
P4605-03
P4605-04
P4605-05
P4605-06

Client Sample Number

TAPIAL2-SED02-102824-00-T2
TAPIAL2-SED01-102824-00-T2
TAPIAL3-SED01-102824-00-T2
TAPHHA-SED01-102824-00-T2
TAPHHA-SED02-102824-00-T2
TAPLPR-SED11-102824-00-T2

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 :

N. N. Pandya

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 9:13 am, Nov 12, 2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



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

CASE NARRATIVE

Weston Solutions

Project Name: Ft Meade Tipton Airfield Parcel RI - PO 0111169

Project # N/A

Chemtech Project # P4605

Test Name: pH, TOC

A. Number of Samples and Date of Receipt:

6 Solid samples were received on 10/29/2024.

B. Parameters:

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

C. Analytical Techniques:

The analysis of pH was based on method 9045D and The analysis of TOC was based on method Lloyd Kahn.

D. QA/ QC Samples:

The Holding Times were met for all samples except for TAPHHA-SED01-102824-00-T2 of pH, for TAPHHA-SED02-102824-00-T2 of pH, for TAPIAL2-SED01-102824-00-T2 of pH, for TAPIAL2-SED02-102824-00-T2 of pH, for TAPIAL3-SED01-102824-00-T2 of pH, for TAPLPR-SED11-102824-00-T2 of pH as samples were received out of holding time.

The Blank Spike met requirements for all samples.

The Duplicate analysis met criteria for all samples.

The Matrix Spike analysis met criteria for all samples.

The Matrix Spike Duplicate analysis met criteria for all samples.

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

The Calibration met the requirements.

E. Additional Comments:

Lab has used least representable sample weight for the sample P4605-05 for TOC analysis. Therefore Lab has reported the TOC result with "OR" qualifier.

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.

Signature N. N. Pandya

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 9:13 am, Nov 12, 2024

DATA REPORTING QUALIFIERS- INORGANIC

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

J	Indicates the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).
U	Indicates the analyte was analyzed for, but not detected.
ND	Indicates the analyte was analyzed for, but not detected
E	Indicates the reported value is estimated because of the presence of interference
M	Indicates Duplicate injection precision not met.
N	Indicates the spiked sample recovery is not within control limits.
S	Indicates the reported value was determined by the Method of Standard Addition (MSA).
*	Indicates that the duplicate analysis is not within control limits.
+	Indicates the correlation coefficient for the MSA is less than 0.995.
D	Indicates the reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
M	Method qualifiers “P” for ICP instrument “PM” for ICP when Microwave Digestion is used “CV” for Manual Cold Vapor AA “AV” for automated Cold Vapor AA “CA” for MIDI-Distillation Spectrophotometric “AS” for Semi -Automated Spectrophotometric “C” for Manual Spectrophotometric “T” for Titrimetric “NR” for analyte not required to be analyzed
OR	Indicates the analyte’s concentration exceeds the calibrated range of the instrument for that specific analysis.
Q	Indicates the LCS did not meet the control limits requirements
H	Sample Analysis Out Of Hold Time

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P4605

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: 11/11/2024

LAB CHRONICLE

OrderID:	P4605	OrderDate:	10/29/2024 11:02:00 AM
Client:	Weston Solutions	Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169
Contact:	Nathan Fretz	Location:	K63

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4605-01	TAPIAL2-SED02-1028 24-00-T2	SOIL	pH	9045D	10/28/24 09:35		10/29/24 16:30	10/29/24
			TOC	Lloyd Kahn			10/30/24 11:40	
P4605-02	TAPIAL2-SED01-1028 24-00-T2	SOIL	pH	9045D	10/28/24 09:50		10/29/24 16:35	10/29/24
			TOC	Lloyd Kahn			10/30/24 11:54	
P4605-03	TAPIAL3-SED01-1028 24-00-T2	SOIL	pH	9045D	10/28/24 10:30		10/29/24 16:40	10/29/24
			TOC	Lloyd Kahn			10/30/24 12:50	
P4605-04	TAPHHA-SED01-1028 24-00-T2	SOIL	pH	9045D	10/28/24 10:45		10/29/24 16:45	10/29/24
			TOC	Lloyd Kahn			10/30/24 13:02	
P4605-05	TAPHHA-SED02-1028 24-00-T2	SOIL	pH	9045D	10/28/24 11:10		10/29/24 16:50	10/29/24

LAB CHRONICLE

P4605-06	TAPLPR-SED11-10282 4-00-T2	SOIL	TOC	Lloyd Kahn		10/30/24 13:40	
					10/28/24 14:40		10/29/24
			pH	9045D		10/29/24 17:00	
			TOC	Lloyd Kahn		10/30/24 14:03	



SAMPLE DATA

Report of Analysis

Client:	Weston Solutions	Date Collected:	10/28/24 09:35
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Date Received:	10/29/24
Client Sample ID:	TAPIAL2-SED02-102824-00-T2	SDG No.:	P4605
Lab Sample ID:	P4605-01	Matrix:	SOIL
		% Solid:	92

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
pH	5.11	H	1	0	0	0	pH		10/29/24 16:30	9045D
TOC	1980		1	8.00	50.0	250	mg/Kg		10/30/24 11:40	Lloyd Kahn

Comments: pH result reported at temperature 23.4 °C

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N = Spiked sample recovery not within control limits

Report of Analysis

Client:	Weston Solutions	Date Collected:	10/28/24 09:50
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Date Received:	10/29/24
Client Sample ID:	TAPIAL2-SED01-102824-00-T2	SDG No.:	P4605
Lab Sample ID:	P4605-02	Matrix:	SOIL
		% Solid:	85.8

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
pH	4.89	H	1	0	0	0	pH		10/29/24 16:35	9045D
TOC	5490		1	8.00	50.0	250	mg/Kg		10/30/24 11:54	Lloyd Kahn

Comments: pH result reported at temperature 23.3 °C

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Weston Solutions	Date Collected:	10/28/24 10:30
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Date Received:	10/29/24
Client Sample ID:	TAPIAL3-SED01-102824-00-T2	SDG No.:	P4605
Lab Sample ID:	P4605-03	Matrix:	SOIL
		% Solid:	89.2

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
pH	7.07	H	1	0	0	0	pH		10/29/24 16:40	9045D
TOC	8320		1	8.00	50.0	250	mg/Kg		10/30/24 12:50	Lloyd Kahn

Comments: pH result reported at temperature 24.5 °C

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Weston Solutions	Date Collected:	10/28/24 10:45
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Date Received:	10/29/24
Client Sample ID:	TAPHHA-SED01-102824-00-T2	SDG No.:	P4605
Lab Sample ID:	P4605-04	Matrix:	SOIL
		% Solid:	85.1

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
pH	6.35	H	1	0	0	0	pH		10/29/24 16:45	9045D
TOC	4730		1	8.00	50.0	250	mg/Kg		10/30/24 13:02	Lloyd Kahn

Comments: pH result reported at temperature 22.3 °C

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Weston Solutions	Date Collected:	10/28/24 11:10
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Date Received:	10/29/24
Client Sample ID:	TAPHHA-SED02-102824-00-T2	SDG No.:	P4605
Lab Sample ID:	P4605-05	Matrix:	SOIL
		% Solid:	54.7

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
pH	6.16	H	1	0	0	0	pH		10/29/24 16:50	9045D
TOC	21200	OR	1	8.00	50.0	250	mg/Kg		10/30/24 13:40	Lloyd Kahn

Comments: pH result reported at temperature 20.5 °C

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N = Spiked sample recovery not within control limits

Report of Analysis

Client:	Weston Solutions	Date Collected:	10/28/24 14:40
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Date Received:	10/29/24
Client Sample ID:	TAPLPR-SED11-102824-00-T2	SDG No.:	P4605
Lab Sample ID:	P4605-06	Matrix:	SOIL
		% Solid:	77.6

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
pH	6.43	H	1	0	0	0	pH		10/29/24 17:00	9045D
TOC	2070		1	8.00	50.0	250	mg/Kg		10/30/24 14:03	Lloyd Kahn

Comments: pH result reported at temperature 23.2 °C

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits



QC RESULT SUMMARY

Initial and Continuing Calibration Verification

Client: Weston Solutions

SDG No.: P4605

Project: Ft Meade Tipton Airfield Parcel RI - PO 0111169

RunNo.: LB133195

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV pH	pH	7.00	7	100	90-110	10/29/2024
Sample ID: CCV1 pH	pH	2.02	2.00	101	90-110	10/29/2024
Sample ID: CCV2 pH	pH	12.02	12.00	100	90-110	10/29/2024

Initial and Continuing Calibration Verification

Client: Weston Solutions

SDG No.: P4605

Project: Ft Meade Tipton Airfield Parcel RI - PO 0111169

RunNo.: LB133199

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1 TOC	mg/L	1010	1000	101	90-110	08/07/2024
Sample ID: CCV1 TOC	mg/L	1000	1000	100	90-110	10/30/2024
Sample ID: CCV2 TOC	mg/L	1020	1000	102	90-110	10/30/2024
Sample ID: CCV3 TOC	mg/L	1060	1000	106	90-110	10/30/2024

Initial and Continuing Calibration Blank Summary

Client: Weston Solutions	SDG No.: P4605
Project: Ft Meade Tipton Airfield Parcel RI - PO 0111169	RunNo.: LB133199

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1 TOC	mg/L	< 125.0000	125.0000	U	32.1	250	08/07/2024
Sample ID: CCB1 TOC	mg/L	< 125.0000	125.0000	U	32.1	250	10/30/2024
Sample ID: CCB2 TOC	mg/L	< 125.0000	125.0000	U	32.1	250	10/30/2024
Sample ID: CCB3 TOC	mg/L	< 125.0000	125.0000	U	32.1	250	10/30/2024

Preparation Blank Summary

Client: Weston Solutions

SDG No.: P4605

Project: Ft Meade Tipton Airfield Parcel RI - PO 0111169

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID:	LB133199BLS						
TOC	mg/Kg	18.4	125.0000	J	8	250	10/30/2024

Matrix Spike Summary

Client: Weston Solutions

SDG No.: P4605

Project: Ft Meade Tipton Airfield Parcel RI - PO 0111169

Sample ID: P4605-02

Client ID: TAPIAL2-SED01-102824-00-T2MS

Percent Solids for Spike Sample: 85.8

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
TOC	mg/Kg	75-125	6270		5490		1000	1	78		10/30/2024

Matrix Spike Summary

Client:	Weston Solutions	SDG No.:	P4605
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Sample ID:	P4605-02
Client ID:	TAPIAL2-SED01-102824-00-T2MSD	Percent Solids for Spike Sample:	85.8

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
TOC	mg/Kg	75-125	6440		5490		1000	1	95		10/30/2024

Duplicate Sample Summary

Client:	Weston Solutions	SDG No.:	P4605
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Sample ID:	P4605-02
Client ID:	TAPIAL2-SED01-102824-00-T2MSD	Percent Solids for Spike Sample:	85.8

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
TOC	mg/Kg	+/-20	6270		6440		1	3		10/30/2024

Duplicate Sample Summary

Client:	Weston Solutions	SDG No.:	P4605
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Sample ID:	P4617-03
Client ID:	CONCRETE-PILEDUP	Percent Solids for Spike Sample:	100

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
pH	pH	+/-20	9.35		9.36		1	0.11		10/29/2024

Laboratory Control Sample Summary

Client:	Weston Solutions	SDG No.:	P4605
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Run No.:	LB133199

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB133199BSS							
TOC	mg/Kg	1000	1010		101	1	90-110	10/30/2024



SHIPPING DOCUMENTS

Weston COC ID
Weston_20241028_1508

Chain of Custody Record/Lab Work Request



Client:	Weston Solutions, Inc.		
Project Manager:	David Sembrot		
Street Address:	1400 Weston Way	City:	West Chester
Phone:	610-314-5456	ST, ZIP:	PA, 19038
e-mail:	david.sembrot@westonsolutions.com		
Sampled By:	Cheyenne Harrington		

Project Name:	Fort Meade RI	Project POC:	Nathan Fretz
PO Number	0111145	Phone:	484-524-5665
W.O. #:		POC e-mail:	nathan.fretz@westonsolutions.com
Lab:	CHEMTECH	Lab POC:	Samantha Beazley
TAT (days):	21	Lab Phone:	908-728-3148
Lab Address:	284 Sheffield Street Mountainside, NJ 07092		

Matrix Codes
SS - Soil
SE - Sediment
SO - Solid
SL - Sludge
GW - Groundwater
W - Water
O - Oil
A - Air
DS - Drum Solids
DL - Drum Liquids
L - EP/TCLP Leachate
WI - Wipe
X - Other
F - Fish

Lab Use Only		
Temperature of cooler when received (°C)		
COC Tape was present and unbroken on outer package?	Y	N
Samples received in good condition?	Y	N
Labels indicate properly preserved?	Y	N
Received within holding times?	Y	N
Discrepancies between sample labels and COC record?	Y	N

Analyses Requested:	EPA 9045D	EPA 9060A/Lloyd Kahn																
	Container Num:	Glass	Glass Jar															
	Container Type:	8 oz	8 oz															
	Preservative:	Ice to 0-6	Ice to 0-6															

#	Sample ID	G/C	Matrix	MS/MSD	Date Collected	Time Collected													Special Instructions/Comments
1	TAPIAL2-SED02-102824-00-T2	g	SED	no	10/28/2024	9:35	1	1											1 sample container for both analyses
2	TAPIAL2-SED01-102824-00-T2	g	SED	no	10/28/2024	9:50	1	1											1 sample container for both analyses
3	TAPIAL3-SED01-102824-00-T2	g	SED	no	10/28/2024	10:30	1	1											1 sample container for both analyses
4	TAPHHA-SED01-102824-00-T2	g	SED	no	10/28/2024	10:45	1	1											1 sample container for both analyses
5	TAPHHA-SED02-102824-00-T2	g	SED	no	10/28/2024	11:10	1	1											1 sample container for both analyses
6	TAPLPR-SED11-102824-00-T2	g	SED	no	10/28/2024	14:40	1	1											1 sample container for both analyses
7																			
8																			
9																			
10																			
11																			
12																			

Shipping Airbill Number:		7795 7604 6746		Cooler Number:		of			
Relinquished By	Date	Time	Received By	Date	Time	Additional Comments			
1.) <i>[Signature]</i>	10/28/24	1645	<i>[Signature]</i>	10-29-24	9:55	QSM 5.4 Compliant			
2.)						Deliverable Requirements: DoD Level IV report, EnviroData EDD, and ERIS-compatible EDD			
3.)									

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488