

Quality Assurance Project Plan

for

Site Investigation
Reliable Tire Co
1115 Chestnut Street
Block 1302, Lot 1
Camden, New Jersey, 08103

Prepared for:

Olivette Simpson, Executive Director
Camden Redevelopment Agency
The City of Camden
520 Market Street, Suite 1300
City Hall
Camden, New Jersey

Cooperative Agreement No.
BF 96286914; RLF 96236900-0

Submitted to:

Quality Assurance Officer
US EPA Region 2

Prepared by:

BRS, Inc.
P.O. Box 2293
Medford Lakes, NJ 08055

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ATTACHMENTS

Attachment 1	Area of Concern Locations
Attachment 2	Laboratory Certificates
Attachment 3	Reference Limits including Method Detection Limits and State Standards
Attachment 4	Standard Operating Procedures ^a
Attachment 5	Resumes

^a The SOPs and the QMP for Pace Analytical, which are protected files and cannot be included in this document, are provided at this link, <https://spaces.hightail.com/space/tKeic7zIkq>.

Brownfields QAPP Template #1 - Title and Approval Page

Title: Reliable Tire Quality Assurance Project Plan (QAPP)
Project Name/Property Name: Former Reliable Tire site
Property/Site Location: 1115 Chestnut Street, Block 1302, Lot 1, Camden, New Jersey
Revision Number: 1
Revision Date: 2/28/2024

Brownfields Cooperative Agreement Number: BF 96286914; RLF 96236900-0

Camden Redevelopment Agency (CRA)

Brownfields Recipient

Alicia Flammia, Environmental Scientist - BRS, Inc.
PO Box 2293, Medford Lakes, NJ 08055
856-964-6456 / aflammia@BRSEnc.com

Preparer's Name and Organizational Affiliation
Preparer's Address, Telephone Number, and E-mail Address

10/2/2023

Preparation Date (Day/Month/Year)

Brownfields Recipient Program Manager:




Signature

Olivette Simpson, Ex. Director
OISimpso@ci.camden.nj.us

3/19/2024

Printed Name/Organization/Date

Environmental Consultant Quality Assurance Officer:
(QAO)



Signature

Renee Michalak, Environmental Scientist / TTI Environmental

3/18/2024

Printed Name/Organization/Date

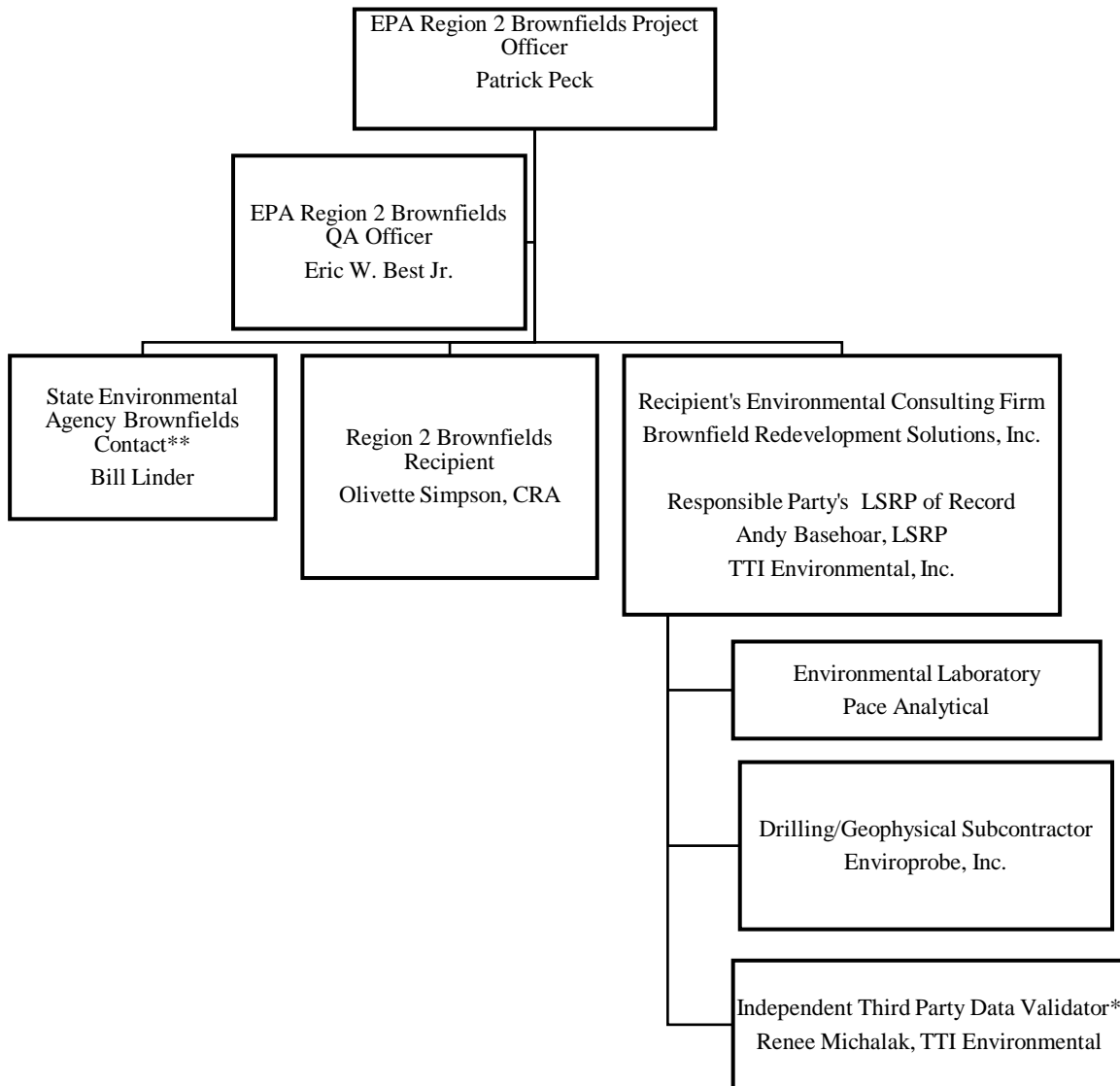
EPA Region 2 Brownfields Project Officer:

Signature

Patrick Peck – USEPA Region II

Printed Name/Organization/Date

Brownfields QAPP Template #2a Project Organizational Chart



*Data validation to be performed by third party – independent to project (can be within Environmental Consulting firm or subcontracted to a data validation firm).

**As of May 7, 2012, with limited exceptions, all remediation in the state of New Jersey, without regard to when remediation was initiated, no longer proceed through the NJDEP Voluntary Cleanup Program but are to proceed under the supervision of a Licensed Site Remediation Professional (LSRP), without NJDEP pre-approval. The rules

and regulations governing the LSRP oversight of remediation projects are provided in the New Jersey Site Remediation Reform Act, N.J.S.A. 58:10C-1 et seq. (SRRA).

Brownfields QAPP Template #2b Personnel Responsibilities

Name	Title	Telephone Number	Organizational Affiliation	Responsibilities ¹
Alicia Flammia	Environmental Scientist	856-964-6456	Brownfield Redevelopment Solutions, Inc. (BRS)	Oversight of Assessment and Remediation contractor scope for Brownfields Recipient
Andy Basehoar, LSRP	LSRP of Record, Project Manager	610-334-4414	TTI Environmental Inc.	Direct investigation activities, Review/approve activities, certify reports, close regulatory case
To Be Determined	Field Technician		TTI Environmental Inc.	Collection of soil samples
Olivette Simpson	Brownfields Recipient Program Manager	856-757-6891	Camden Redevelopment Agency	Program management, authorize project activities
Patrick Peck	EPA Brownfields Project Officer (BPO)		EPA Region 2	Ensure investigation is in compliance with QAPP and EPA regulation
Eric W. Best Jr.	EPA Brownfields Quality Assurance Officer (QAO)	732-321-4388	EPA Region 2	Approve QAPP for compliance with EPA Region 2 QA/QC policy
Alan Harvill	Project Manager II	615-773-9787	Pace Analytical	Coordinate analytical and field services
Renee Michalak	Third Party Data Validator ²	856- 964-6456	TTI Environmental Inc.	Data quality review

¹Include resumes as an appendix to the Site-Specific QAPP

²Data validation to be performed by third party – independent to project (can be within Environmental Consulting firm or subcontracted to a data validation firm).

Brownfields QAPP Template #3a Problem Definition/Project Description

PROBLEM DEFINITION

The site consists of approximately 1.98 acres. The site is currently an unimproved lot covered with grass. The site formerly operated as the Camden Pottery Company, a pottery manufacturing operation, from approximately 1906 until 1964 and as Reliable Tire Company from 1964 until 1999. The site included vacant buildings from 1999 until 2011. A fire consumed the onsite buildings in June 2011, and the site has been vacant, unimproved land since 2011. A total of ten Areas of Concern (AOCs) were identified in the Preliminary Assessment; three require remediation and one requires further investigation and is the subject of this QAPP. Camden Redevelopment Agency (CRA) wishes to investigate AOC 1A through AOC 1E, which includes 2 unregulated underground storage tanks (USTs) and 3 regulated USTs to advance future redevelopment of the site.

PROJECT DESCRIPTION

Site Location

The site is located at 1115 Chestnut Street, Camden, Camden County, New Jersey. The site is identified by the City of Asbury Park Tax Assessor Block 1302, Lot 1, and contains approximately 1.98 acres in total land area.

The site is located in a mixed commercial, industrial, and residential area.

Site History

Review of the historical documentation indicates that the site formerly operated as the Camden Pottery Company, a pottery manufacturing operation, from approximately 1906 until 1964 and as Reliable Tire Company from 1964 until 1999. The site included vacant buildings from 1999 until 2011. A fire consumed the onsite buildings in June 2011, and the site has been vacant unimproved land since 2011.

TTI conducted Site Investigation activities during April 2021. Samples were collected surrounding five USTs that were identified during the geophysical survey (AOCs 1A-1E). No evidence of a release was detected in soil or groundwater sampled adjacent to the USTs. TTI recommended proper removal and closure of the USTs. Proposed investigation activities will include collection of soil samples from beneath the USTs upon their removal.

Project Description

CRA's environmental consultant, TTI, recommended further investigation for the AOC related to the USTs. TTI will conduct additional assessment of the USTs by collecting soil samples from underneath AOC 1A, 1B, and 1C. These areas are assumed to have historically contained No. 2 Heating oils. Soils from below the heating oil USTs shall be analyzed for Extractable Petroleum Hydrocarbons (EPH) Category 1 with contingent analysis for naphthalene and 2-methylnaphthalene if EPH is detected above 1,000 mg/kg. AOCs 1D and 1E contained unknown petroleum products. Soils from below UST located at AOC 1D and 1E shall be analyzed for EPH

Category 2 with contingent analysis for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), polychlorinated biphenols (PCBs), and target analyte list (TAL) metals if EPH is detected.

TTI's LSRP and designated environmental associates shall conduct oversight of UST removal activities. Documentation of UST closures shall be summarized in a UST Closure Report for submission to NJDEP. The reporting will include documentation for tank disposal, waste disposal manifests, and clean fill receipts and data from samples collected.

Remediation is planned for AOC 3 (potential historic fill material), AOC 4 (potential buried debris material), and AOC 9 (former coal pile) for future redevelopment of the site. No sampling will occur during remediation of AOCs 3, 4, and 9 as impacts to soil have been fully delineated in accordance with NJDEP regulations. TTI's LSRP and designated environmental associates shall conduct oversight of the planned remediation. Field oversight shall be conducted to verify impacted soil is excavated to the clean delineation points and document disposal of impacted soils. TTI will require manifests and tonnage for soil disposal and clean fill receipts from the selected remediation contractor. TTI shall prepare a Remedial Action Report (RAR) documenting completion of remediation for all AOCs at the site in support of an Entire Site Response Action Outcome (RAO).

PROJECT DECISION STATEMENT

The goal for soil is to confirm the absence of contamination underneath the USTs and if confirmed, close out the tanks and the associated AOCs.

If the above goals are not met, then additional investigation will be proposed.

Brownfields QAPP Template #3b Project Quality Objectives/Systematic Planning Process Statements

Overall project objectives include:

The goal for soil is to determine if contaminants of concern are below the NJDEP Residential/Non-Residential Soil Remediation Standards at the site. At a minimum, samples will be collected and evaluated in accordance with the following documents:

- NJ Technical Requirements for Site Remediation (NJAC 7:26E)
- NJ Remediation Standards (NJAC 7:26D)
- NJDEP Technical Guidance for the Attainment of Remediation Standards and Site-Specific Criteria
- NJDEP Data Quality Assessment and Data Usability Evaluation Technical Guidance
- NJDEP Technical Guidance for Investigation of Underground Storage Tank Systems

Who will use the data?

Data will be used by CRA and TTI

What will the data be used for?

Analytical data for the soil samples will be evaluated to assess the compounds present in the UST contents relative to those detected in soil. Soil will be evaluated for the presence of regulated compounds above applicable NJDEP standards:

- NJ Residential/Non-Residential Soil Remediation Standards for the Ingestion-Dermal;
- NJ Residential/Non-Residential Soil Remediation Standards for Inhalation; and
- NJ Soil Remediation Standards Migration to Groundwater Exposure Pathways.

What types of data are needed?

- Laboratory Data
 - TCL VOCs
 - TCL SVOCs
 - PCBs
 - EPH
 - Naphthalene
 - 2-methylnaphthalene
- Field screening
 - Photoionization Detector (PID)
 - Visual observations
 - Olfactory observations

- Sampling techniques – per NJDEP *Field Sampling Procedures Manual*

How “good” do the data need to be in order to support the environmental decision?

The data will be provided in a Reduced Laboratory Data Deliverable meeting all requirements of NJAC 7:26E. Data usability will be performed to ensure that data quality objectives are met and data can reliably be compared to the NJDEP SRS. The quality of data is determined by establishing criteria for performance measures that include precision, accuracy/bias, sensitivity (quantitation limit), data comparability representativeness and completeness. See Template 5d of this QAPP.

How much data are needed?

Enough data must be collected to determine if additional investigation is required, or no further investigation is needed. It’s anticipated that 25 soil samples, will initially be analyzed in accordance with the analytical requirements outlined above (“What types of data are needed?”).

Where, when, and how should the data be collected/generated?

Soil sample locations will be collected beneath the tanks, the locations of which are included in **Attachment 1**. It’s anticipated that sampling will be undertaken in early 2024. Upon tank removal, samples will be collected from the tank grave base via hand collection.

Who will collect and generate the data?

TTI will collect soil samples and generate field data. Pace Analytical will analyze samples.

How will the data be reported?

TTI will summarize and present the data as components of the final reports. All data will be reported in laboratory reports generated by Pace Analytical and tables generated by TTI Environmental. Electronic data deliverables shall also be generated by Pace Analytical and submitted to NJDEP.

How will the data be archived?

Data will be archived on Pace Analytical’s online data servers, on TTI Environmental’s servers, in electronic deliverable to CRA, and NJDEP’s records.

Brownfields QAPP Template #4 Project Schedule/Timeline

Activities	Organization	Dates (MM/DD/YY)		Deliverable	Deliverable Due Date
		Anticipated Date(s) of Initiation	Anticipated Date of Completion		
Preparation of QAPP	BRS, Inc	September 2023	October 2023	QAPP	February 2024
Review of QAPP	EPA Region 2: Patrick Peck, BPO, and QAO	October 2023	January 2024	Approved QAPP by EPA Region BPO	February 2024
Preparation of Health and Safety Plan	TTI	October 2023	November 2023	HASP	November 2023
Procurement of Equipment	TTI	January 2024	February 2024	N/A	N/A
Laboratory Request	TTI	January 2024	February 2024	N/A	N/A
Public Utility Markout	TTI	January 2024	January 2024	N/A	N/A
Collection of Field Samples	TTI	February 2024	February 2024	N/A	N/A
Laboratory Package Received	TTI	March 2024	March 2024	Unvalidated data package	March 2024
Data Usability Analysis	TTI	March 2024	April 2024	Validated data Packages / Data Quality Assessment	April 2024
Data Evaluation/ Preparation of Site Investigation Report	TTI	April 2024	April 2024	Final Report	April 2024

¹Data validation to be performed by third party – independent to project (can be within Environmental Consulting firm or subcontracted to data validation firm).

TBD = To Be Determined

Brownfields QAPP Template #5a Sampling Methods and Locations

Matrix	Sampling Location(s)	Depth ¹ (units)	Analytical Group	No. of Samples (identify field duplicates)	Sampling SOP Reference	Rationale for Sampling Location
Soil	AOC-1A	8-10'	EPH Cat. 1, Nap, PAHs	5	N.J.A.C 7:14B and N.J.A.C. 7:26E	Evaluation of potential contamination associated with heating oil UST (AOC/REC-1)
Soil	AOC-1B	8-10'	EPH Cat. 1, Nap, PAHs	5	N.J.A.C 7:14B and N.J.A.C. 7:26E	Evaluation of potential contamination associated with heating oil UST (AOC/REC-1)
Soil	AOC-1C	8-10'	EPH Cat. 1, Nap, PAHs	5	N.J.A.C 7:14B and N.J.A.C. 7:26E	Evaluation of potential contamination associated with heating oil UST (AOC/REC-1)
Soil	AOC-1D	8-10'	EPH Cat. 2, VOCS, SVOCs, PCBs, TAL	5 + DUP	N.J.A.C 7:14B and N.J.A.C. 7:26E	Evaluation of potential contamination associated with unknown UST (AOC/REC-1)
Soil	AOC-1E	8-10'	EPH Cat. 2, VOCS, SVOCs, PCBs, TAL	5	N.J.A.C 7:14B and N.J.A.C. 7:26E	Evaluation of potential contamination associated with unknown UST (AOC/REC-1)

¹ Depths shown are primary. Other depths may be selected based on field observations.

² Additional duplicates will be collected as necessary to ensure 5% frequency.

³ FSMP = Field Sampling Procedures Manual

N/A = Not Applicable

Brownfields QAPP Template #5b Analytical Methods and Requirements

All analytical services will be performed by:

Pace Analytical
12065 Lebanon Road
Mt. Juliet, TN
37122

Matrix	Analytical Group	Concentration Level ¹	Analytical & Preparation Method/ SOP Reference ²	Sample Volume	Containers (number, size, type)	Preservation Requirements (chemical, temperature, light protected)	Maximum Holding Time (preparation/ analysis)
Soil	VOCs	Low	SW 846 8260D	120 ml	3x 40 ml vials	Cool to ≤6° C	14 Days
Soil	SVOCs	Low	SW 846 8270E	250 ml	250 ml jar	Cool to ≤6° C	7 days to extract/ 40 days to analyze
Soil	PCBs	Low	SW 846-8082A	250 ml	250 ml jar	Cool to ≤6° C	1 year to extract/40 days to analyze
Soil	Metals	Low	SW 846 6010D	60 ml	60 ml jar	Cool to ≤6° C	6 months
Soil	EPH	High	SW 846 8270E	4 oz	4 oz amber jar	Cool to ≤6° C	14 days to extract/ 40 days to analyze

¹Concentration Level refers to Trace; Low; Medium; High of the sample.

² See Template #6 for laboratory Analytical SOPs for each Method listed above.

Copies of laboratory certificates for the specific analyses pertaining to this project are included as **Attachment 2**.

Brownfields QAPP Template #5c Reference Limits and Evaluation Table

Abbreviations used in the tables included as **Attachment 3** are provided below:

NJDEP – NJ Department of Environmental Protection

RL – Reporting Limit

MDL – Method Detection Limit

mg/kg – milligram per kilogram

ug/L – microgram per liter

“-“ – Not Applicable / No Standard

NJDEP SRS - NJDEP Soil Remediation Standards

Migration to GW SRS = Migration to Groundwater

Inhal-NonRes SRS = Non Residential Inhalation

Inhal- Res SRS = Residential Inhalation

Ingestion-Res SRS = Residential Ingestion/Dermal

Ingestion- NonRes SRS = Non Residential Ingestion/Dermal

Brownfields QAPP Template #5d Analytical Laboratory Sensitivity and Project Criteria

Laboratory Standard Operating Procedures are provided in **Attachment 4**.

Matrix Soil				
Analytical Group <i>Volatile Organics</i>				
Concentration Level <i>Low/Medium</i>				
Analytical Method/SOP	Data Quality Indicators	Performance Criteria (related to analytical method)	QC Sample such as Duplicate, Matrix Spike, Surrogates etc.) Used To Assess Performance Criteria	QC Sample Assesses Error for Sampling (S), Analytical (A) or both (S&A)
EPA Method 8260C/Laboratory SOP 0100	Precision	RPD \leq 20% (analyte specific)	Laboratory Control Sample (LCS) Duplicate	(A)
	Precision	RPD \leq 30% (analyte specific)	Matrix Spike (MS) Duplicate	(A), (S)
	Precision	RPD \leq 30% (analyte specific)	Field Duplicates	(A), (S)
	Accuracy/Bias	Generally, 70-130%R (analyte specific)	LCS	(A)
	Accuracy/Precision	Generally, 40-140%R (analyte specific)	MS	(A), (S)
	Accuracy/Extraction Efficiency	70-130%R	Surrogates	(A)
	Accuracy/Bias (Contamination)	No Target Compounds >RL	Trip Blank, Method Blank & Field Equipment Blank	(A), (S)
	Sensitivity	Level of Detection (LOD) Verification	LOD Sample (spiked at 1 to 4 times the detection limit)	(A)

Matrix Soil				
Analytical Group <i>Semi-Volatile Organics</i>				
Concentration Level <i>Low/Medium</i>				
Analytical Method/SOP	Data Quality Indicators	Performance Criteria (related to analytical method)	QC Sample such as Duplicate, Matrix Spike, Surrogates etc.) Used To Assess Performance Criteria	QC Sample Assesses Error for Sampling (S), Analytical (A) or both (S&A)
EPA Method 8270D/Laboratory SOP 081	Precision	RPD \leq 50% (analyte specific)	Laboratory Control Sample (LCS) Duplicate	(A)
	Precision	RPD \leq 50% (analyte specific)	Matrix Spike (MS) Duplicate	(A), (S)

	Precision	RPD \leq 50% (analyte specific)	Field Duplicates	(A), (S)
	Accuracy/Bias	Generally, 40-140%R for Base Neutrals; 30-130% for Acids (analyte specific)	LCS	(A)
	Accuracy/Precision	Generally, 40-140%R for Base Neutrals; 30-130% for Acids (analyte specific)	MS	(A), (S)
	Accuracy/Extraction Efficiency	30-130%R	Surrogates	(A)
	Accuracy/Bias (Contamination)	No Target Compounds >Reporting Limit (RL)	Method Blank & Field Equipment Blank	(A), (S)
	Sensitivity	Level of Detection (LOD) Verification	LOD Sample (spiked at 1 to 4 times the detection limit)	(A)

Matrix Soil
Analytical Group PCBs
Concentration Level Low/Medium

Analytical Method/SOP	Data Quality Indicators	Performance Criteria (related to analytical method)	QC Sample such as Duplicate, Matrix Spike, Surrogates etc.) Used To Assess Performance Criteria	QC Sample Assesses Error for Sampling (S), Analytical (A) or both (S&A)
<i>EPA Method 8082A/Laboratory SOP 077</i>	Precision	RPD \leq 30% (analyte specific)	Laboratory Control Sample (LCS) Duplicate	(A)
	Precision	RPD \leq 30% (analyte specific)	Matrix Spike (MS) Duplicate	(A), (S)
	Precision	RPD \leq 30% (analyte specific)	Field Duplicates	(A), (S)
	Accuracy/Bias	Generally, 40-140%R	LCS	(A)
	Accuracy/Precision	Generally, 40-140%R	MS	(A), (S)
	Accuracy/Extraction Efficiency	30-150%R	Surrogates	(A)
	Accuracy/Bias (Contamination)	No Target Compounds >Reporting Limit (RL)	Method Blank & Field Equipment Blank	(A), (S)
Sensitivity	Level of Detection (LOD) Verification	LOD Sample (spiked at 1 to 4 times the detection limit)	(A)	

Matrix Soil				
Analytical Group Metals				
Concentration Level Low/Medium				
Analytical Method/SOP	Data Quality Indicators	Performance Criteria (related to analytical method)	QC Sample such as Duplicate, Matrix Spike, Surrogates etc.) Used To Assess Performance Criteria	QC Sample Assesses Error for Sampling (S), Analytical (A) or both (S&A)
<i>EPA Method 6010C /Laboratory SOP 212,213,215</i>	Precision	RPD \leq 20% (analyte specific)	Laboratory Control Sample (LCS) Duplicate	(A)
	Precision	RPD \leq 20% (analyte specific)	Matrix Spike (MS) Duplicate	(A), (S)
	Precision	RPD \leq 20% (analyte specific)	Field Duplicates	(A), (S)
	Accuracy/Bias	Generally, 80-120%R	LCS	(A)
	Accuracy/Precision	Generally, 75-125%R	MS	(A), (S)
	Accuracy/Extraction Efficiency	80-120%R	Surrogates	(A)
	Accuracy/Bias (Contamination)	No Target Compounds >Reporting Limit (RL)	Method Blank & Field Equipment Blank	(A), (S)
Sensitivity	Level of Detection (LOD) Verification	LOD Sample (spiked at 1 to 4 times the detection limit)	(A)	

Brownfields QAPP Template #5e Secondary Data Criteria and Limitations Table

Secondary Data	Data Source (Originating Organization, Report Title, and Date)	Data Generator(s) (Originating Org., Data Types, Data Generation/ Collection Dates)	How Data Will Be Used	Limitations on Data Use
Previous Investigation Sampling Results	TTI, <i>Site/ Remedial Investigation Report, Camden Redevelopment Agency</i> . March 24,2023	Soil and ground water sampling conducted in 2022.	Understand the contaminants of concern and whether impacts remain.	Results are a year old

Brownfields QAPP Template #6 Project Specific Method and Standard Operating Procedures (SOPs) Reference Table

Copies of the Laboratory and Field Sampling SOPs are provided as **Attachment 4**.

Analytical Method Reference

1a	Volatile Organic Compounds by GC/MS (EPA8260B,8260C, 624, 624.1 And SM6200B)
2a	Determination of Metals and Trace Elements in Various Matrices by ICP-AES (EPA Methods 6010B, 6010C, 6010D, [ICP-OES], and 200.7) Including Hardness (EPA Methods 200.7 and 6010B/C/D and SM2340 B)
3a	Semi-Volatile Organic Compounds by GC/MS (EPA Methods 8270C, 8270D 625, 625.1 and SM6410B)
4a	Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Soil, Water & Oil) (EPA Methods 608, 608.3, 8082 & 8082 A) SM 6431B)
5a	Methods for the Determination of Extractable Petroleum Hydrocarbons by GC/MS (EPH)(Based on MA EPH for NC, LA, MT, CT, NJ, and WA

Analytical Laboratory SOPs

1b	VOCs by EPA 624, 624.1, SW-846 8260B, C, D SM 6200 B Document No. ENV-SOP-MTJL-0100, date May 15, 2023
2b	Metals EPA 200.7, SW-846 6010B, C, D, Document No. ENV-SOP-MTJL-0215, Document ENV-SOP-MTJL-0215 v12, date December 6, 2022
3b	Semi-volatile Organics by GCMS using Capillary Column (EPA Methods 8270C, EPA 8270D, EPA Method 625, SM 6410B), Including Provisions for Analysis in SIM Mode, Document No. ENV-SOP-MTJL-0081 date January 20,2022
4b	Polychlorinated Biphenyls (PCBS) by Gas Chromatography (Soil, Water & Oil) (EPA Methods 608, 8082, & 8082A, SM 6431B), Document No. ENV-SOP-MTJL-0077, date January 8, 2021
5b	Methods for the Determination of Extractable Petroleum Hydrocarbons by GC/MS (EPH)(Based on MA EPH for NC, LA, MT, CT, NJ, and WA), Document No. ENV-SOP-MTJL-0090, date July 7, 2020

Field Sampling SOPs

1c	1c. NJDEP Field Sampling Procedures Manual, August 2005, Last revision 2022
2c	Soil Sampling SOP, TTI October 2023

Brownfields QAPP Template #7 Field Equipment Calibration, Maintenance, Testing, and Inspection

The following table includes the field instrumentation anticipated for use at this site.

Field Equipment	Calibration Activity	Maintenance Activity	Testing/ Inspection Activity	Frequency	Acceptance Criteria	Corrective Action	SOP Reference
RAE Systems MiniRAE PID	Zero Gas and Span Gas	Recharge Battery	Bump test with span gas	Daily or if calibration drift is suspected	±3 ppm of cal gasses	Re-calibrate	Manufacturer manual
		Clean exterior of gross contamination;					
		Replace moisture/debris trap					
		Clean lamp					

Brownfields QAPP Template #8 Analytical Laboratory Instrument and Equipment Maintenance, Testing, and Inspection

Instrument/ Equipment	Maintenance Activity	Testing/Inspection Activity	Frequency	Acceptance Criteria	Corrective Action	Responsible Person	Analytical SOP Reference
GC/MS (VOCs + 30 TICS)	As per instrument manufacturer's recommendations	As per instrument manufacturer's recommendations; check connections	As per instrument manufacturer's recommendations	Acceptable recalibration; see Pace Analytical SOP Attachment 6	Inspect the system, correct problem, recalibrate and/or reanalyze samples.	Laboratory GC/MS Technician	Pace Analytical SOP ENV- SOP-MTJL- 0100 v08in Attachment 3
GC/MS (SVOCs + 30 TICS)	As per instrument manufacturer's recommendations	As per instrument manufacturer's recommendations; check connections	As per instrument manufacturer's recommendations	Acceptable recalibration; see Pace Analytical SOP Attachment 6	Inspect the system, correct problem, recalibrate and/or reanalyze samples.	Laboratory GC/MS Technician	Pace Analytical SOP ENV- SOP-MTJL- 0081 v05in Attachment 3
GC/MS (EPH)	As per instrument manufacturer's recommendations	As per instrument manufacturer's recommendations; check connections	As per instrument manufacturer's recommendations	Acceptable recalibration; see Pace Analytical SOP Attachment 6	Inspect the system, correct problem, recalibrate and/or reanalyze samples.	Laboratory GC/MS Technician	Pace Analytical SOP ENV- SOP-MTJL- 0090 v06 in Attachment 3
GC/ECD (PCBs)	As per instrument manufacturer's recommendations	As per instrument manufacturer's recommendations; check connections	As per instrument manufacturer's recommendations	Acceptable recalibration; see Pace Analytical SOP Attachment 6	Inspect the system, correct problem, recalibrate and/or reanalyze samples.	Laboratory GC/ECD Technician	Pace Analytical SOP ENV- SOP-MTJL- 0077 v03in Attachment 3
ICP-SS (Metals)	As per instrument manufacturer's recommendations	As per instrument manufacturer's recommendations; check connections	As per instrument manufacturer's recommendations	Acceptable recalibration; see Pace Analytical SOP Attachment 6	Inspect the system, correct problem, recalibrate and/or reanalyze samples.	Laboratory ICP-SS Technician	Pace Analytical SOP ENV- SOP-MTJL- 0215 v11in Attachment 3
CV (Mercury)	As per instrument manufacturer's recommendations	As per instrument manufacturer's recommendations; check connections	As per instrument manufacturer's recommendations	Acceptable recalibration; see Pace Analytical SOP Attachment 6	Inspect the system, correct problem, recalibrate and/or reanalyze samples.	Laboratory Mercury Cold Vapor Technician	Pace Analytical SOP ENV- SOP-MTJL- 0212 v07 & SOP ENV- SOP-MTJL- 0213 v10 in Attachment 3

Analytical Laboratory Instrument Calibration

Instrument/Equipment	Calibration Procedure	Frequency of Calibration	Acceptance Criteria	Corrective Action	Responsible Person	Analytical SOP Reference
GC/MS (VOCs + 30 TICS) (SVOCs + 30 TICS)	See SOP	GC/MS Initial calibration: Whenever major instrument maintenance or modification is performed (e.g., column replacement or repair, or if the calibration verification technical acceptance criteria have not been met. Calibration verification: daily, not to exceed 12 hours.	≤20%	GC/MS: inspect the system, correct problem, re-calibrate.	Laboratory GC/MS Technician	Pace Analytical SOP ENV-SOP-MTJL-0100 v08 and SOP ENV-SOP-MTJL-0081 v05 in Attachment 3
GC/ECD (PCBs)	See SOP	GC/ECD Initial calibration: Whenever major instrument maintenance or modification is performed (e.g., column replacement or repair, cleaning or replacement of ECD, etc.) or if the calibration verification technical acceptance criteria have not been met. Continuing calibration: At the beginning and end of each analytical batch.	<20%	GC/ECD: inspect the system, correct problem, re-calibrate, re-analyze samples.	Laboratory GC/ECD Technician	Pace Analytical SOP ENV-SOP-MTJL-0077 v03in Attachment 3
ICP/ICP-SS (Metals)	See SOP	ICP/ICP-SS Initial calibration: Daily, prior to the analysis of samples. Continuing calibration: Daily after calibration, every ten samples and at the end of the analytical run.	≤10%	ICP/ICP-SS: inspect the system, correct problem, re-calibrate, re-analyze samples.	Laboratory ICP-SS Technician	Pace Analytical SOP ENV-SOP-MTJL-0215 v11in Attachment 3
CV (Mercury)	See SOP	CV Initial calibration: Daily, prior to the analysis of samples. Continuing calibration: Daily after calibration, every ten samples and at the end of the analytical run.	≤10%	CV: inspect the system, correct problem, re-calibrate, re-analyze samples.	Laboratory Mercury Cold Vapor Technician	Pace Analytical SOP ENV-SOP-MTJL-0212 v07 & SOP ENV-SOP-MTJL-0213 v10 in Attachment 3

Brownfields QAPP Template #9a Sample Handling System

SAMPLE COLLECTION, PACKAGING, AND SHIPMENT
Sample Collection (Personnel/Organization): TTI Environmental Inc.
Sample Packaging (Personnel/Organization): TTI Environmental Inc.
Coordination of Shipment (Personnel/Organization): TTI Environmental Inc.
Type of Shipment/Carrier: Pace Analytical courier
SAMPLE RECEIPT AND ANALYSIS
Sample Receipt (Personnel/Organization): Pace Analytical
Sample Custody and Storage (Personnel/Organization): Pace Analytical
Sample Preparation (Personnel/Organization): Pace Analytical
Sample Determinative Analysis (Personnel/Organization): Pace Analytical
SAMPLE ARCHIVING
Field Sample Storage (No. of days from sample collection): Two days total between date of sample shipment and receipt in the laboratory.
Sample Extract/Digestate Storage (No. of days from extraction/digestion): As per analytical methodology
SAMPLE DISPOSAL
Personnel/Organization: Pace Analytical
Number of Days from Analysis: Until analysis and QA/QC checks are completed; as per analytical methodology

Brownfields QAPP Template #9b Sample Custody Requirements

Sample Identification Procedures:

Samples shall be labeled by AOC number, boring number and depth of sample collection.

Example: AOC 1 – 1 @ 5-5.5

Field Sample Custody/Tracking Procedures (sample collection, packaging, shipment, and delivery to laboratory): Following collection, sample jars will be cleaned, labeled, logged on the chain of custody, and packed into a cooler with ice. The cooler will be picked up by the courier. If samples are retained overnight before delivery to the lab, they will remain in the secure possession of the sampler. Any change in possession will be documented on the chain of custody. Sampling information shall be recorded in field books to include sample identification, sample depth and sample collection time. Example: AOC 1 – 1 @ 5-5.5 collected at 900.

Laboratory Sample Custody/Tracking Procedures (receipt of samples, archiving, and disposal): Samples shall be logged in to the laboratory and given a lab specific tracking number. Example: L123456-1

Chain-of-Custody Procedures: All samples (sample name, time of sample collection, date, time and sample depth) shall be logged on chain of custody documents. All samples shall be handled and transferred from sampling technicians to laboratory personnel under signature of release and acceptance of samples including date and time of release and acceptance of samples.

Brownfields QAPP Template #10 Analytical Laboratory Quality Control Summary

QC samples will be collected in accordance with the NJDEP *Field Sampling Procedures Manual* and *Data of Known Quality Protocols Technical Guidance*.

Matrix	Soil
Analytical Group	Volatiles
Concentration Level	Reported as ug/kg
Sampling SOP(s)	Soil Sampling, October 2023
Analytical Method/SOP Reference	EPA Method SW 846 8260D / See Template #6
Sampler's Name	TBD
Field Sampling Organization	TTI
Analytical Organization	Pace
No. of Sample Locations	10

Quality Control (QC) Sample:	Frequency/ Number	Method/SOP QC Acceptance Limits	Corrective Action	Person(s) Responsible for Corrective Action	Data Quality Indicator (DQI)
BFB	Beginning of analytical shift	Mass 50: 15-40% of mass 95; Mass 75: 30-60% of mass 95 Mass 95: Base peak, 100% relative abundance Mass 96: 5-9% of mass 95 Mass 173: < 2% of mass 174 Mass 174: > 50% of mass 95 Mass 175: 5-9% of mass 174 Mass 176: >95% and <101% of mass 174 Mass 177: 5-9% of mass 176	Re-tune MS & re-analyze	Laboratory Manager, GC/MS Analyst	Instrument Performance Check
ICAL	As-needed	≤ 20 % RSD	Re-prepare standards and re-calibrate	Laboratory GC/MS Analyst	Accuracy
ICV	Every initial calibration	≤ 30% D	Re-analyze affected sample, re-prepare ICV	Laboratory GC/MS Analyst	Accuracy/Bias
CCV	Every 12 hours or 1 per ≤ 20 samples	≤ 20% D	Analyze second CCV, auto-tuning, routine system cleaning and routine system maintenance.	Laboratory GC/MS Analyst	Accuracy/ Bias (ICV Verification)

Quality Control (QC) Sample:	Frequency/ Number	Method/SOP QC Acceptance Limits	Corrective Action	Person(s) Responsible for Corrective Action	Data Quality Indicator (DQI)
Method Blank	Every 12 hours or 1 per ≤ 20 samples	<RL	Re-analyze affected sample, qualify analytical data	Lab Analyst	Accuracy/ Bias (Laboratory Contamination)
Blank Spike	1 per < 20 samples	Average Recovery 70-130% for Target Compounds	Re-analyze Blank Spike & associated samples or flag outliers	Laboratory GC/MS Analyst	Accuracy/Bias
Matrix Spike	1 per ≤ 20 samples	Average Recovery 70-130% for Target Compounds	Flag Outliers	Laboratory GC/MS Analyst	Accuracy/ Bias/ (Matrix Interference)
Matrix Spike Duplicate	1 per ≤ 20 samples	$\leq 30\%$ RPD	Flag outliers	Laboratory GC/MS Analyst	Precision
Surrogate	Added to all samples prior to extraction.	Dibromofluoromethane (70-130%) 1,2-Dichloroethane-d4 (70-130%) Toluene-d8 (70-130%) 4-Bromofluorobenzene (70-130%)	Check calculations and/or surrogate solutions; check instrument performance, correct any problems and reanalyze the sample to confirm.	Laboratory GC/MS Analyst	Accuracy/ Bias
Internal Standard	Added to all samples prior to analysis.	IS response is within 50 - 200% of the response of the same IS in the midpoint ICAL standard (or average of ICAL) or most recent CCV	Check calculations and/or internal standard solutions; check instrument performance, correct any problems and reanalyze the sample to confirm	Laboratory GC/MS Analyst	Precision
Trip Blank	1 per shipment	<RL	Verify TB results (reanalyze TB), qualify data as needed	Sampling Technician and Lab Analyst	Accuracy/ Bias (Field Contamination)
Field Duplicate (Single sample)	1 per < 20 samples	RPD $\leq 50\%$ for solids w/results > 2x RL; Professional judgment for results < 2xRL	Flag outliers	Sampling Technician and Lab Analyst	Precision

Matrix	Soils
Analytical Group	Semi-volatiles
Concentration Level	Reported as ug/kg
Sampling SOP(s)	Soil Sampling, October 2023

Analytical Method/SOP Reference	EPA Method SW 846 8270E / See Template #6
Sampler's Name	TBD
Field Sampling Organization	TTI
Analytical Organization	Pace
No. of Sample Locations	10

Quality Control (QC) Sample:	Frequency/ Number	Method/SOP QC Acceptance Limits	Corrective Action	Person(s) Responsible for Corrective Action	Data Quality Indicator (DQI)
DFTPP	Every 12 hours	Mass 51: 30-60 % of mass 198 Mass 68: <2 % of mass 69 Mass 70: <2 % of mass 69 Mass 127: 40-60 % of mass 198 Mass 197: <1 % of mass 198 Mass 198: Base peak, 100 % relative abundance Mass 199: 5-9 % of mass 198 Mass 275: 10-30 % of mass 198 Mass 365: >1 % of mass 198 Mass 441: Present but less than mass 443 Mass 442: >40 % of mass 198 Mass 443: 17-23 % of mass 442	Re-tune MS & re-analyze	Laboratory Manager, GC/MS Analyst	Instrument Performance Check
ICAL	Prior to sample analysis & as needed	≤ 20 % RSD	Re-calibrate	Laboratory GC/MS Analyst	Accuracy
ICV	After ICAL & prior to sample analysis	≤ 30% D	Re-analyze affected sample, re-prepare ICV	Laboratory GC/MS Analyst	Accuracy/Bias
CCV	Every 12 hours or 1 per ≤ 20 samples	≤ 20% D	Analyze second CCV, auto-tuning, routine system cleaning and routine system maintenance.	Laboratory GC/MS Analyst	Accuracy/ Bias (ICV Verification)
Method Blank	Every 12 hours or 1 per ≤ 20 samples	<RL	Re-analyze affected sample, qualify analytical data	Lab Analyst	Accuracy/ Bias (Laboratory Contamination)
Blank Spike	1 per < 20 samples	Average Recovery 70-130% for Target Compounds	Re-analyze Blank Spike & associated samples or flag outliers	Laboratory GC/MS Analyst	Accuracy/Bias

Quality Control (QC) Sample:	Frequency/ Number	Method/SOP QC Acceptance Limits	Corrective Action	Person(s) Responsible for Corrective Action	Data Quality Indicator (DQI)
Matrix Spike	1 per ≤ 20 samples	Average Recovery 70-130% for Target Compounds	Flag Outliers	Laboratory GC/MS Analyst	Accuracy/ Bias/ (Matrix Interference)
Matrix Spike Duplicate	1 per ≤ 20 samples	$\leq 30\%$ RPD	Flag outliers	Laboratory GC/MS Analyst	Precision
Surrogate	Added to all samples prior to extraction.	Solid Matrices: 30-130% for all surrogates 15-110% for acid surrogates (2-Fluorophenol; Phenol-d5; 2,4,6-Tribromophenol)	Check calculations and/or surrogate solutions; check instrument performance, correct any problems and reanalyze the sample to confirm.	Laboratory GC/MS Analyst	Accuracy/ Bias
Internal Standard	Added to all samples prior to analysis.	IS response is within 50 - 200% of the response of the same IS in the midpoint ICAL standard (or average of ICAL) or most recent CCV	Check calculations and/or internal standard solutions; check instrument performance, correct any problems and reanalyze the sample to confirm	Laboratory GC/MS Analyst	Precision
Field Duplicate (Single sample)	1 per ≤ 20 samples	RPD $\leq 50\%$ for solids w/results $> 2x$ RL; Professional judgment for results $< 2xRL$	Flag outliers	Sampling Technician and Lab Analyst	Precision

Matrix	Solids
Analytical Group	PCBs
Concentration Level	Reported as ug/kg
Sampling SOP(s)	Soil Sampling, October 2023
Analytical Method/SOP Reference	EPA Method SW 846 8082A / See Template #6
Sampler's Name	TBD
Field Sampling Organization	TTI
Analytical Organization	Pace
No. of Sample Locations	10

Quality Control (QC) Sample:	Frequency/ Number	Method/SOP QC Acceptance Limits	Corrective Action	Person(s) Responsible for Corrective Action	Data Quality Indicator (DQI)
ICAL	Prior to sample analysis & as needed	$\leq 20\%$ RSD	Re-calibrate	Lab Analyst	Accuracy
ICV	After ICAL & prior to sample analysis	$\leq 20\%$ D	Re-analyze affected sample, re-prepare ICV	Lab Analyst	Accuracy/Bias
CCV	Every 12 hours, 1 per ≤ 10 samples, at end of analysis sequence	$\leq 20\%$ D	Analyze second CCV, auto-tuning, routine system cleaning and routine system maintenance.	Lab Analyst	Accuracy/ Bias (ICV Verification)
Instrument Blank	After each CCV	<MDL	Identify & correct source of contamination, re-analyze	Lab Analyst	Accuracy (Cross Contamination)
Method Blank	1 per ≤ 20 samples	<RL	Re-analyze affected sample, qualify analytical data	Lab Analyst	Accuracy/ Bias (Laboratory Contamination)
Blank Spike	1 per < 20 samples	40-140% Recovery	Re-analyze Blank Spike & associated samples or flag outliers	Lab Analyst	Accuracy/Bias
Matrix Spike	1 per ≤ 20 samples	40-140% Recovery RPD $\leq 30\%$ for Solids	Flag Outliers	Lab Analyst	Accuracy/ Bias/ (Matrix Interference)
Matrix Spike Duplicate	1 per ≤ 20 samples	40-140% Recovery RPD $\leq 30\%$ for Solids	Flag outliers	Lab Analyst	Precision
Surrogate	Added to all samples prior to extraction.	30-150% Recovery TCMX DCB	Check calculations and/or surrogate solutions; check instrument performance, correct any problems and reanalyze the sample to confirm.	Lab Analyst	Accuracy/ Bias
Field Duplicate (Single sample)	1 per ≤ 20 samples	RPD $\leq 50\%$ for solids w/results > 2x RL; Professional judgment for results < 2xRL	Flag outliers	Sampling Technician and Lab Analyst	Precision

Matrix	Soils
Analytical Group	Metals

Concentration Level	Reported as mg/kg
Sampling SOP(s)	Soil Sampling, October 2023
Analytical Method/SOP Reference	EPA Method SW 846 6010D / See Template #6
Sampler's Name	TBD
Field Sampling Organization	TTI
Analytical Organization	Pace
No. of Sample Locations	10

Quality Control (QC) Sample:	Frequency/ Number	Method/SOP QC Acceptance Limits	Corrective Action	Person(s) Responsible for Corrective Action	Data Quality Indicator (DQI)
LCR	Daily, after calibration	Within 10% of true value	N/A	Lab Analyst	Accuracy
ICV	Daily, after calibration	90-110% Recovery; replicates exceeding 5x RL must have RSD < 5%	Re-analyze; Re-calibrate & re-analyze; Suspend all analysis until ICV meets criteria	Lab Analyst	Accuracy/Bias
ICB	After ICV	ICB < ½ RL (LLOQ)	Re-analyze; Re-calibrate & re-analyze	Lab Analyst	Accuracy
CCV	1 per ≤ 10 samples, at end of analysis sequence	90-110% Recovery; replicates exceeding 5x RL must have RSD < 5%; 10% RE	Re-analyze; Re-calibrate & re-analyze	Lab Analyst	Accuracy (ICV Verification)
CCB	After CCV	CCB < RL (LLOQ)	Re-analyze; Re-calibrate & re-analyze	Lab Analyst	Sensitivity
ICSA-ICSAB	Daily after calibration; Beginning of each analytical run	ICSA & ICSB: 80-120% recovery ICSA: non-spiked analytes < absolute value of RL	Re-analyze; adjust interference/ background correction/ linear ranges; re-calibrate & re-analyze	Lab Analyst	Accuracy
LLCCV	Beginning of each analytical batch	80-120% Recovery; 20% RE	Re-analyze; Re-calibrate & re-analyze; Suspend all analysis until LLICV meets criteria unless all results > 10x RL	Lab Analyst	Sensitivity
Method Blank	1 per ≤ 20 samples	MB < ½ RL (LLOQ)	Re-analyze; Re-digest & re-analyze unless all detected results > 10x MB level	Lab Analyst	Accuracy & Sensitivity (Laboratory Contamination)

Quality Control (QC) Sample:	Frequency/ Number	Method/SOP QC Acceptance Limits	Corrective Action	Person(s) Responsible for Corrective Action	Data Quality Indicator (DQI)
Blank Spike	1 per < 20 samples	80-120% Recovery	Re-analyze; Re-digest & re-analyze including all samples in batch	Lab Analyst	Accuracy/Bias
Matrix Spike	1 per \leq 20 samples	75-125% Recovery	Flag Outliers	Lab Analyst	Accuracy/ Bias/ (Matrix Interference)
Matrix Spike Duplicate	1 per \leq 20 samples	RPD \leq 20%	Flag outliers	Lab Analyst	Precision
Field Duplicate (Single sample)	1 per \leq 20 samples	Soil/Sediment: Results \geq 5xRL: RPD \leq 50%; Results < 5xRL: professional judgment	Flag outliers	Sampling Technician and Lab Analyst	Precision

Brownfields QAPP Template #11a Data Management and Documentation

The following table describes the documentation that will be generated for the project, and the data management procedures that will be used in handling that information.

Field Sample Collection Documents and Records	Analytical Laboratory Documents and Records	Data Assessment Documents and Records	Project File
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<ul style="list-style-type: none"> • Site and field logbooks • Boring Logs • Chain-of-Custody (COC) forms • Field Data Sheets 	<ul style="list-style-type: none"> • Sample receipt logs • Internal and external COC forms • Equipment calibration logs • Sample preparation worksheets/logs • Sample analysis worksheets/run logs • Telephone/email logs • Corrective action documentation • Laboratory analytical data package 	<ul style="list-style-type: none"> • Data validation reports • Field inspection checklist(s) • Laboratory Audit checklist (if performed) • Review forms for electronic entry of data into database • Corrective action documentation 	<p>TTI's project file shall be stored electronically for a period of at least 5 years.</p> <ul style="list-style-type: none"> • Lab timeline as to how long they will maintain their data is provided in Pace Analytical's Quality Management Plan^b
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^b <https://spaces.hightail.com/space/tKeic7zIkq>

Brownfields QAPP Template #11b Project Reports

The table below lists the reports that will be generated during and following this work.

Type of Report	Frequency (Daily, weekly, monthly, quarterly, annually, etc.)	Projected Delivery Date(s)	Person(s) Responsible for Report Preparation (Title and Organizational Affiliation)	Report Recipient(s) (Title and Organizational Affiliation)
Laboratory Deliverables	3 weeks following each sampling event	TBD	TTI QA Manager	BRS
Data Validation Report	Once following receipt of all lab data	TBD	BRS, Inc.	TTI
Data Usability Assessment	Once following receipt of data validation report	TBD	TTI	CRA, USEPA Region II BPO, CRA
Final or interim Site Investigation Report	Once at the completion of the investigation	TBD	TTI	CRA, USEPA Region II BPO, CRA

Brownfields QAPP Template #12a Planned Project Assessments Table

Project Assessments are not planned for this project.

Brownfields QAPP Template #12b Assessment Findings and Corrective Action Responses

Assessments and corrective action responses are not planned for this project.

Brownfields QAPP Template #13a Project Data Verification Process (Step I)¹

Verification Input	Description	Internal/ External²	Responsible for Verification (Name, Organization)
Methods (sampling and analytical)	TTI Project Manager shall discuss in a kickoff meeting the purpose of sample locations and the analytes to be sampled for. This shall be done prior to all field events. The Project Manager shall discuss all QC samples to the field prior to sampling events.	I	Andrew Basehoar, TTI Environmental
Reporting Forms	Any and all forms required to be submitted shall be reviewed by TTI Project Manager for accuracy and completeness	I	Andrew Basehoar, TTI Environmental
Sampling Plans	Shall be completed prior to sampling events and reviewed by the Project Manager. Upon return from sampling, the Project Manager shall update all maps for accuracy. Names and identifications of the samples shall be relayed from the project manager to all field personnel.	I	Andrew Basehoar, TTI Environmental
Site/Field Logbooks	Field notes will be prepared daily and will be complete, appropriate, legible and pertinent. Upon completion of field work, logbook entries will be scanned and placed in the project electronic files.	I	TTI Environmental
Chains of custody	COC forms will be reviewed against the samples packed in the specific cooler prior to shipment. The reviewer will initial the form. An original COC will be sent with the samples to the laboratory, while copies are retained for (1) the Sampling Trip Report and (2) the project files.	I	TTI Environmental
Laboratory analytical data package	Data packages will be reviewed/verified internally by the laboratory performing the work for completeness and technical accuracy prior to submittal.	I	TTI Environmental
Laboratory analytical data package	Data packages will be reviewed as to content and sample information upon receipt by the Environmental Consultant Project Manager and the Third Party Data Validation Personnel.	I/E	BRS – Alicia Flammia
Final Sample Report	The project data results will be compiled in a sample report for the project. Entries will be reviewed/verified against hardcopy information.	I	Andrew Basehoar, TTI Environmental
Electronic Data Deliverables	Review the data and add all pertinent information to the data deliverable package (as necessary) to be submitted.	I	Renee Michalak, TTI Environmental
Site Investigation Report	TTI shall prepare a Site Investigation Report, which includes the findings and recommendations for further action, as necessary	I	Andrew Basehoar, TTI Environmental

¹Step I – Completeness Check²Internal or External is in relation to the data generator.

Brownfields QAPP Template #13b Project Data Validation Process (Steps IIa and IIb) ¹

Step IIa/IIb¹	Validation Input	Description	Responsible for Validation (Name, Organization)
IIa	SOPs	Ensure that the sampling methods/procedures outlined in QAPP were followed, and that any deviations were noted/approved.	Andrew Basehoar, TTI Environmental
IIb	SOPs	Determine potential impacts from noted/approved deviations, in regard to PQOs.	Andrew Basehoar, TTI Environmental
IIa	Chains of custody	Examine COC forms against QAPP and laboratory contract requirements (e.g., analytical methods, sample identification, etc.).	Andrew Basehoar, TTI Environmental
IIa	Laboratory data package	Examine packages against QAPP and laboratory contract requirements, and against COC forms (e.g., holding times, sample handling, analytical methods, sample identification, data qualifiers, QC samples, etc.).	Andrew Basehoar, TTI Environmental Renee Michalak, TTI Environmental
IIb	Laboratory data package	Review the laboratory data and confirm all non-conformance issues. Determine if the non-conformance issues impact the validity of the data.	Andrew Basehoar, TTI Environmental Renee Michalak, TTI Environmental
IIa	Electronic Data Deliverables	Review all laboratory data deliverables and submit as necessary. Confirm all results are consistent with those in laboratory reports.	Renee Michalak, TTI Environmental
IIb	Field duplicates	Compare results of field duplicate (or replicate) analyses with RPD criteria	Andrew Basehoar, TTI Environmental Renee Michalak, TTI Environmental
IIa	Sampling Plans	Compare field locations with the sampling plan. Ensure that any deviations from the sampling plan are representative of the AOC being inspected.	Andrew Basehoar, TTI Environmental
IIa	Field Book	Ensure that all field books are stored within the project folder and are separate from other projects. Ensure that all field books are accurate to field conditions.	Andrew Basehoar, TTI Environmental
IIa/IIb	Reporting Forms/ Site Investigation Report	After review and validation of the data, preparation of the Site Investigation Report and associated forms summarizing the data. Review the report along with the data to confirm that the report is accurate to the data presented.	Andrew Basehoar, TTI Environmental

¹Step IIa – Compliance with Methods, Procedures, and Contracts¹Step IIb – Comparison with Performance Criteria in QAPP

Brownfields QAPP Template #13c Project Matrix and Analytical Validation (Steps IIa and IIb)¹ Summary

Step IIa/IIb ¹	Matrix	Analytical Group	Concentration Level	Validation Criteria	Data Validator (title and organizational affiliation)
IIa / IIb	Soil	VOCs	Trace Above NJDEP Stds. Non-Detect	NJDEP Data of Known Quality Protocols Technical Guidance (version 1.0) dated April 2014	Renee Michalak, TTI Environmental.
IIa / IIb	Soil	SVOCs/PAHs	Trace Above NJDEP Stds. Non-Detect	NJDEP Data of Known Quality Protocols Technical Guidance (version 1.0) dated April 2014	Renee Michalak, TTI Environmental
IIa / IIb	Soil	PCBs	Trace Above NJDEP Stds. Non-Detect	NJDEP Data of Known Quality Protocols Technical Guidance (version 1.0) dated April 2014	Renee Michalak, TTI Environmental
IIa / IIb	Soil	Metals	Trace Above NJDEP Stds. Non-Detect	NJDEP Data of Known Quality Protocols Technical Guidance (version 1.0) dated April 2014	Renee Michalak, TTI Environmental
IIa / IIb	Soil	EPH	Trace Above NJDEP Stds. Non-Detect	NJDEP Data of Known Quality Protocols Technical Guidance (version 1.0) dated April 2014	Renee Michalak, TTI Environmental

¹Step IIa – Compliance with Methods, Procedures, and Contracts

¹Step IIb – Comparison with Performance Criteria in QAPP

Brownfields QAPP Template #13d Usability Assessment (Step III)

Data Usability

The purpose of this section is to describe the various data usability assessment methods that will be used by BRS to ensure that the validated laboratory data is consistent with the established project quality objectives, and that the quality of validated laboratory data is sufficient for its intended use. The data usability assessment process will also enable BRS to identify data trends, relationships, and anomalies, as well as data gaps and limitations, if any. The data usability assessment will be performed by the Project Manager, in conjunction with the Project QA Manager, and will be performed after the data validation has been completed.

Precision

The RPD between the matrix spike and the matrix spike duplicate, in the case of organic parameters, or sample and sample duplicate in the case of all parameters, is calculated to compare to precision objectives. MS/MSDs and laboratory duplicates will be used to assess analytical precision, while the field duplicates will be used to assess project precision. The RPD will be calculated according to the following formula:

(Amount in Sample 1 - Amount in Sample 2)

RPD = ————— x 100

0.5 (Amount in Sample 1 + Amount in Sample 2)

The impact of analytical imprecision, project imprecision, and overall imprecision (when both analytical and project precision tests show problems) on data usability will be assessed. If the precision results yield data which are not usable, the data usability assessment will identify how this problem will be resolved, and the potential need for resampling will be discussed in the final report.

Accuracy

If field or laboratory contamination exists, the impact on the data will be evaluated during the data usability assessment. The direction of bias for contamination will be identified.

In order to assure the accuracy of the analytical procedures, matrix spike samples will be utilized. The increase in concentration of the analyte observed in the spiked sample, due to the addition of a known quantity of the analyte, compared to the reported value of the same analyte in the unspiked sample, determines percent recovery (%R).

Accuracy is similarly assessed by determining the percent recovery for surrogate compounds that are added to each field and QC sample and analyzed for organic parameters. The recorded accuracy for all analyses will be further assessed by evaluating the percent recovery for LCSs and calibration results, etc. If the Data Validation Reports indicate contamination and/or analytical biases, the impact on the data will be assessed.

The percent recovery for MS/MSD results will be determined according to the following equation:

(Amount in Spiked Sample - Amount in Sample)

$$\%R = \frac{\text{Amount in Spiked Sample} - \text{Amount in Sample}}{\text{Known Amount Added}} \times 100$$

Known Amount Added

The percent recovery for LCSs and surrogate compound results will be determined according to the following equation:

Experimental Concentration

$$\%R = \frac{\text{Experimental Concentration}}{\text{Known Amount Added}} \times 100$$

Known Amount Added

Overall contamination and accuracy/bias will be reviewed for each matrix and analytical parameter. The data usability assessment will include any limitations on the use of the data, if it is limited to a particular matrix, data package, parameter, or laboratory. If the accuracy results yield data which are not usable, the data usability assessment will identify how this problem will be resolved, and the potential need for resampling will be discussed in the final report.

Representativeness

If field duplicates indicate spatial variability, the data usability assessment will evaluate the impact on the data. Overall sample representativeness will be evaluated for each matrix and analytical parameter. The data usability assessment will include any limitations on the use of the data, if limited to a particular matrix, data package, parameter, or laboratory. If the results of the evaluation of representativeness yield data which are not usable, the data usability assessment will identify how this problem will be resolved, and the potential need for resampling will be discussed in the final report.

Sensitivity and Quantitation Limits

Overall sensitivity will be reviewed for each matrix and analytical parameter. The impact on the lack of sensitivity or the reporting of higher quantitation limits by the laboratory will be assessed. The data usability assessment will include any limitations on the use of the data, if limited to a particular matrix, data package, parameter, or laboratory. If the results of the evaluation of sensitivity yield data which are not usable, the data usability assessment will identify how this problem will be resolved, and the potential need for resampling will be discussed in the final report.

Completeness

Completeness is the ratio of the number of valid sample results to the total number of samples analyzed or processed. Following completion of the testing, the percent completeness will be calculated by the following equation:

$$\text{Completeness} = \frac{\text{(number of valid measurements)}}{\text{(number of measurements planned)}} \times 100$$

Overall completeness will be reviewed for each matrix and analytical parameter. The data usability assessment will include any limitations on the use of the data, if limited to a particular matrix, data package, parameter, or laboratory. If the results of the evaluation of completeness yield data which are not usable, the data usability assessment will identify how this problem will be resolved, and the potential need for resampling will be discussed in the final report.

Data Limitations and Actions

The field and laboratory data collected during this investigation will be used to achieve the objectives identified in Section 3.0 of this QAPP. The QC results associated with each analytical parameter for each matrix will be compared to the objectives presented in this QAPP. Data generated in association with QC results meeting the stated acceptance criteria (i.e., data determined to be valid) will be considered usable for decision-making purposes. Limitations on the use of the data will be stated and explained, if necessary.

In addition, the data obtained will be both qualitatively and quantitatively assessed on a project wide, matrix-specific, and parameter-specific basis. Results of the measurement error assessments will be applied against the site as a whole; any conclusions will be documented in the final report. Data generated in association with QC results not meeting the stated acceptance criteria may still be considered usable for decision-making purposes, depending on certain

factors. This assessment will be performed by the Project Manager, in conjunction with the QA Manager, and the results presented and discussed in detail in the final report. Factors to be considered in this assessment of field and laboratory data will include, but not necessarily be limited to, the following:

- Conformance to the field methodologies and procedures proposed in the QAPP;
- Conformance to the EPA methods and laboratory SOPs cited in the QAPP;
- Adherence to proposed sampling strategy;
- Presence of elevated detection limits due to matrix interferences or contaminants present at high concentrations;
- Presence of analytes not expected to be present;
- Conformance to validation protocols included in the QAPP for both field and laboratory data;
- Unusable data sets (qualified as "R") based on the data validation results;
- Data sets identified as usable for limited purposes (qualified as "J") based on the data validation results;
- Effect of qualifiers applied as a result of data validation on the ability to achieve the project objectives;
- Status of all issues requiring corrective action, as presented in the QA reports to management;
- Effect of nonconformance (procedures or requirements) on project objectives;
- Adequacy of the data as a whole in meeting the project objectives; and
- Identification of any remaining data gaps and need to reevaluate data needs.

Every attempt will be made by BRS to eliminate any sources of sampling and analytical error as early as possible during the performance of the site investigation. The implementation of an ongoing data assessment program during all phases of the site investigation will also assist in the early detection and correction of problems, thereby ensuring that project objectives are met.

Reconciliation with the project objectives will be considered successful if the measurement performance criteria from Section 5.0 are met. If the data usability indicates that the project quality objectives in Section 3.0 have not been met, then the project management team will meet to determine if additional work needs to be performed.

Table 1

Data Elements for Data Review Process				
Item	Step I - Data Verification	Step IIa - Data Validation Compliance	Step IIb - Data Validation Comparison	Step III - Data Usability
Planning Documents				
Evidence of approval of QAPP	X			Use outputs from previous steps
Identification of personnel	X			
Laboratory name	X			
Methods (sampling & analytical)	X	X	X	
Performance requirements (including QC criteria)	X	X		
Project quality objectives	X		X	
Reporting forms	X	X		
Sampling plans – locations, maps grids, sample ID numbers	X	X		
Site identification	X			
SOPs (sampling & analytical)	X	X		
Staff training & certification	X			
List of project-specific analytes	X	X		
Analytical Data Package				
Case narrative	X	X	X	Use outputs from previous steps
Internal lab chain of custody	X	X		
Sample condition upon receipt, & storage records	X	X		
Sample chronology (time of receipt, extraction/digestion, analysis)	X	X		
Identification of QC samples (sampling /lab)	X	X		
Associated PE sample results	X	X	X	
Communication Logs	X	X		
Copies of lab notebook, records, prep sheets	X	X		
Corrective action reports	X	X		
Definition of laboratory qualifiers	X	X	X	
Documentation of corrective action results	X	X	X	
Documentation of individual QC results (e.g., spike, duplicate, LCS)	X	X	X	
Documentation of laboratory method deviations	X	X	X	
Electronic data deliverables	X	X		
Instrument calibration reports	X	X	X	
Laboratory name	X	X		
Laboratory sample identification no.	X	X		
QC sample raw data	X	X	X	

QC summary report	X	X	X	
Data Elements for Data Review Process				
Raw data	X	X	X	Use outputs from previous steps
Reporting forms, completed with actual results	X	X	X	
Signatures for laboratory sign-off (e.g., laboratory QA manager)	X	X		
Standards traceability records (to trace standard source form NIST, for example)	X	X	X	
Sampling Documents				
Chain of custody	X	X		Use outputs from previous steps
Communication logs	X	X		
Corrective action reports	X	X	X	
Documentation of corrective action results	X	X	X	
Documentation of deviation from methods	X	X	X	
Documentation of internal QA review	X	X	X	
Electronic data deliverables	X	X		
Identification of QC samples	X	X	X	
Meteorological data from field (e.g., wind, temperature)	X	X	X	
Sampling instrument decontamination records	X	X		
Sampling instrument calibration logs	X	X		
Sampling location and plan	X	X	X	
Sampling notes & drilling logs	X	X	X	
Sampling report (from field team leader to project manager describing sampling activities)	X	X	X	
External Reports				
External audit report	X	X	X	Use outputs from previous steps
External PT sample results	X	X		
Laboratory assessment	X	X		
Laboratory QA plan	X	X		
MDL study information	X	X	X	
NELAP accreditation	X	X		

Attachment 1: Area of Concern Locations

Attachment 2: Laboratory Certificates

*State of New Jersey
Department of Environmental Protection
Certifies That*

PACE ANALYTICAL NATIONAL CENTER
Laboratory Certification ID #TN002

*is hereby approved as a
Nationally Accredited Environmental Laboratory
to perform the analyses as indicated on the Annual Certified Parameter List
which must accompany this certificate to be valid*

*having duly met the requirements of the
Regulations Governing the Certification of
Laboratories and Environmental Measurements N.J.A.C. 7:18 et. seq.*

*having been found compliant with the 2016 TNI Standard approved by the
and
The NELAC Institute*

Expires June 30, 2024




Michele M. Potter
Manager

NJDEP is a NELAP Recognized Accreditation Body



Annual Certified Parameter List and Current Status

Effective as of 07/01/2023 until 6/30/2024

Laboratory Name: PACE ANALYTICAL NATIONAL CENTER Laboratory Number: TN002 Activity ID: NLC 230001
12065 LEBANON RD
MT. JULIET TN 37122



Category: AE04 --Organics Analysis

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	AE04.17900	Acetaldehyde	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.17950	Acetone	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.18000	Acetonitrile	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.18100	Acrolein	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.18250	Acrylonitrile	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.18300	Allyl chloride	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.18400	Benzene	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.18450	Benzyl chloride	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.18600	Bromodichloromethane	GC/MS, Canisters	EPA TO-15	LA
Applied	No	AE04.18650	Bromoform	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.18700	Bromomethane	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.18750	Butadiene (1,3-)	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.18850	Butylbenzene (n-)	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.18900	Carbon disulfide	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.19000	Carbon tetrachloride	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.19150	Chlorobenzene	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.19200	Chloroethane	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.19250	Chloroform	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.19300	Chloromethane	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.19400	Chlorotoluene (2-)	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.19500	Cyclohexane	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.19650	Dibromochloromethane	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.19700	Dibromoethane (1,2-) (EDB)	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.19750	Dichlorobenzene (1,2-)	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.19800	Dichlorobenzene (1,3-)	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.19850	Dichlorobenzene (1,4-)	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.19900	Dichlorodifluoromethane	GC/MS, Canisters	EPA TO-15	LA

KEY: AE = Air and Emissions, BT = Biological Tissues, DW = Drinking Water, NPW = Non-Potable Water, SCM = Solid and Chemical Materials

New Jersey Department of Environment Protection
Environmental Laboratory Certification Program

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MT. JULIET TN 37122



Category: AE04 --Organics Analysis

Status	Eligible to Report Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	AE04.19950	Dichloroethane (1,1-)	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.20000	Dichloroethane (1,2-)	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.20050	Dichloroethene (1,1-)	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.20100	Dichloroethene (cis-1,2-)	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.20150	Dichloroethene (trans-1,2-)	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.20250	Dichloropropene (1,2-)	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.20300	Dichloropropene (dis-1,3-)	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.20350	Dichloropropene (trans-1,3-)	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.20400	Dichlorotetrafluoroethane (1,2-)	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.20750	Dioxane (1,4-)	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.20900	Ethanol	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.20950	Ethyl acetate	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.21100	Ethylbenzene	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.21250	Ethyltoluene (4-)	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.21350	Gasoline range organic	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.21400	Heptane (n-)	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.21450	Hexachlorobutadiene (1,3-)	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.21550	Hexane (n-)	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.21600	Hexanone (2-)	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.21700	Isopropanol	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.21750	Isopropylbenzene	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.21800	Methyl alcohol (Methanol)	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.21850	Methyl ethyl ketone (MEK)	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.21900	Methyl iodide	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.21950	Methyl isobutyl ketone (MIBK)	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.22050	Methyl methacrylate	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.22100	Methyl tert-butyl ether	GC/MS, Canisters	EPA TO-15	LA

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12065 LEBANON RD
MT. JULIET TN 37122

Category: AE04 --Organics Analysis



Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	AE04.22150	Methylene chloride (Dichloromethane)	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.22300	Naphthalene	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.22850	Propylbenzene (n-)	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.22950	Propylene	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.23100	Sec-butylbenzene	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.23150	Styrene	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.23250	Tert-butyl alcohol	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.23300	Tert-butylbenzene	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.23350	Tetrachloroethane (1,1,2,2-)	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.23400	Tetrachloroethane (1,1,2,2-)	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.23450	Tetrahydrofuran	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.23500	Toluene	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.23550	Trichloro (1,1,2-) trifluoroethane (1,2,2-)	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.23600	Trichlorobenzene (1,2,4-)	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.23650	Trichloroethane (1,1,1-)	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.23700	Trichloroethane (1,1,2-)	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.23750	Trichloroethene	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.23800	Trichlorofluoromethane	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.24050	Trimethylbenzene (1,2,4-)	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.24100	Trimethylbenzene (1,3,5-)	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.24150	Trimethylpentane (2,2,4-)	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.24200	Vinyl acetate	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.24250	Vinyl bromide	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.24300	Vinyl chloride	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.24350	Xylene (m-)	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.24400	Xylene (o-)	GC/MS, Canisters	EPA TO-15	LA
Certified	Yes	AE04.24450	Xylene (p-)	GC/MS, Canisters	EPA TO-15	LA

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MT. JULIET TN 37122



Category: AE04 --Organics Analysis

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	AE04.24500	Xylenes (total)	GC/MS, Canisters	EPA TO-15	LA

Category: DW03 --Inorganic Parameters

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	DW03.00200	Alkalinity	Titrimetric Indicator	SM 2320 B	UT
Certified	Yes	DW03.01100	Bromide	Ion Chromatography	EPA 300.0	UT
Certified	Yes	DW03.01200	Bromide	Ion Chromatography	SM 4110 B	UT
Certified	Yes	DW03.01800	Chloride	Ion Chromatography	EPA 300.0	UT
Certified	Yes	DW03.01900	Chloride	Ion Chromatography	SM 4110 B	UT
Certified	Yes	DW03.02550	Color	Platinum-Cobalt	SM 2120 B	UT
Certified	Yes	DW03.02700	Conductivity	Conductance	SM 2510 B	UT
Certified	Yes	DW03.03000	Cyanide	Spectrophotometric, Distill, Amenable	SM 4500-CN C, G	UT
Certified	Yes	DW03.03050	Cyanide	Spectrophotometric, Distill, Manual	SM 4500-CN C, E	UT
Certified	Yes	DW03.03150	Cyanide	Spectrophotometric, Distill, Semi Automated	EPA 335.4	UT
Certified	Yes	DW03.03350	Dissolved organic carbon (DOC)	Persulfate-UV, Filtration	SM 5310 C	UT
Certified	Yes	DW03.03750	Fluoride	Ion Chromatography	EPA 300.0	UT
Certified	Yes	DW03.03850	Fluoride	Ion Chromatography	SM 4110 B	UT
Certified	Yes	DW03.03950	Foaming agents	Methylene Blue	SM 5540 C	UT
Certified	Yes	DW03.04000	Nitrate	Automated Cadmium Reduction	EPA 353.2	UT
Certified	Yes	DW03.04350	Nitrate	Automated Cadmium Reduction	SM 4500-NO3 F	UT
Certified	Yes	DW03.04600	Nitrate	Automated Cadmium Reduction	EPA 300.0	UT
Certified	Yes	DW03.04750	Nitrate	Ion Chromatography	SM 4110 B	UT
Certified	Yes	DW03.05000	Nitrite	Automated Cadmium Reduction	EPA 353.2	UT
Certified	Yes	DW03.05350	Nitrite	Automated Cadmium Reduction	SM 4500-NO3 F	UT
Certified	Yes	DW03.05450	Nitrite	Ion Chromatography	EPA 300.0	UT

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MT. JULIET TN 37122



Category: DW03 --Inorganic Parameters

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	DW03.05600	Nitrite	Ion Chromatography	SM 4110 B	UT
Certified	Yes	DW03.05850	Odor	Consistent Series	SM 2150 B	UT
Certified	Yes	DW03.05950	Orthophosphate	Colorimetric	SM 4500-P E	UT
Certified	Yes	DW03.06450	Perchlorate	Ion Chromatography	EPA 314.0	UT
Certified	Yes	DW03.06600	Residue - nonfilterable (TSS)	Gravimetric, 103-105 Deg C, Post Washing - rinsing	SM 2540 D	UT
Certified	Yes	DW03.06900	Sulfate	Ion Chromatography	EPA 300.0	UT
Certified	Yes	DW03.07000	Sulfate	Ion Chromatography	SM 4110 B	UT
Certified	Yes	DW03.07150	Total dissolved solids (TDS)	Gravimetric At 180	SM 2540 C	UT
Certified	Yes	DW03.07200	Total hardness	Hardness By Calculation	SM 2340 B	UT
Certified	Yes	DW03.07550	Total organic carbon (TOC)	Persulfate-UV	SM 5310 C	UT
Certified	Yes	DW03.07800	Turbidity	Nephelometric	EPA 180.1	UT
Certified	Yes	DW03.08100	Turbidity	Nephelometric	SM 2130 B	UT
Certified	Yes	DW03.08300	UV-absorbing compounds (UV254)	Spectrophotometric	SM 5910 B	UT

Category: DW04 --Analyze Immed, Cont Monitor and/or PWTA

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	DW04.00300	Chlorine - total, free or combined	DPD, Colorimetric	SM 4500-Cl G	UT
Certified	Yes	DW04.00950	pH	Electrometric	EPA 150.1	UT
Certified	Yes	DW04.01050	pH	Electrometric	SM 4500-H B	UT
Certified	Yes	DW04.01200	Temperature	Thermometric	SM 2550 B	UT

Category: DW06 --Metals

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12065 LEBANON RD
MT. JULIET TN 37122



Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	DW06.01400	Chromium (VI)	Ion Chromatography	EPA 218.6	UT
Certified	Yes	DW06.01500	Mercury	Manual Cold Vapor	EPA 245.1	UT
Certified	Yes	DW06.01750	Calcium-hardness	Ca as Carbonate, AA	SM 2340 B	UT

Category: DW07 --Metals - ICP, ICP/MS and DCP

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	DW07.00950	Aluminum	ICP	EPA 200.7	UT
Certified	Yes	DW07.01000	Barium	ICP	EPA 200.7	UT
Certified	Yes	DW07.01050	Beryllium	ICP	EPA 200.7	UT
Certified	Yes	DW07.01100	Boron	ICP	EPA 200.7	UT
Certified	Yes	DW07.01150	Cadmium	ICP	EPA 200.7	UT
Certified	Yes	DW07.01200	Calcium	ICP	EPA 200.7	UT
Certified	Yes	DW07.01250	Chromium	ICP	EPA 200.7	UT
Certified	Yes	DW07.01350	Copper	ICP	EPA 200.7	UT
Certified	Yes	DW07.01400	Iron	ICP	EPA 200.7	UT
Certified	Yes	DW07.01500	Magnesium	ICP	EPA 200.7	UT
Certified	Yes	DW07.01550	Manganese	ICP	EPA 200.7	UT
Certified	Yes	DW07.01600	Molybdenum	ICP	EPA 200.7	UT
Certified	Yes	DW07.01650	Nickel	ICP	EPA 200.7	UT
Certified	Yes	DW07.01700	Potassium	ICP	EPA 200.7	UT
Certified	Yes	DW07.01750	Silica	ICP	EPA 200.7	UT
Certified	Yes	DW07.01800	Silver	ICP	EPA 200.7	UT
Certified	Yes	DW07.01850	Sodium	ICP	EPA 200.7	UT
Certified	Yes	DW07.02050	Vanadium	ICP	EPA 200.7	UT
Certified	Yes	DW07.02100	Zinc	ICP	EPA 200.7	UT
Certified	Yes	DW07.02150	Aluminum	ICP/MS	EPA 200.8	UT

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12065 LEBANON RD
MT. JULIET TN 37122



Category: DW07 --Metals - ICP, ICP/MS and DCP

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	DW07.02200	Antimony	ICP/MS	EPA 200.8	UT
Certified	Yes	DW07.02250	Arsenic	ICP/MS	EPA 200.8	UT
Certified	Yes	DW07.02300	Barium	ICP/MS	EPA 200.8	UT
Certified	Yes	DW07.02350	Beryllium	ICP/MS	EPA 200.8	UT
Certified	Yes	DW07.02400	Cadmium	ICP/MS	EPA 200.8	UT
Certified	Yes	DW07.02450	Chromium	ICP/MS	EPA 200.8	UT
Certified	Yes	DW07.02550	Copper	ICP/MS	EPA 200.8	UT
Certified	Yes	DW07.02600	Lead	ICP/MS	EPA 200.8	UT
Certified	Yes	DW07.02650	Manganese	ICP/MS	EPA 200.8	UT
Certified	Yes	DW07.02750	Molybdenum	ICP/MS	EPA 200.8	UT
Certified	Yes	DW07.02800	Nickel	ICP/MS	EPA 200.8	UT
Certified	Yes	DW07.02850	Selenium	ICP/MS	EPA 200.8	UT
Certified	Yes	DW07.02900	Silver	ICP/MS	EPA 200.8	UT
Certified	Yes	DW07.02950	Thallium	ICP/MS	EPA 200.8	UT
Certified	Yes	DW07.03000	Uranium	ICP/MS	EPA 200.8	UT
Certified	Yes	DW07.03050	Vanadium	ICP/MS	EPA 200.8	UT
Certified	Yes	DW07.03100	Zinc	ICP/MS	EPA 200.8	UT
Certified	Yes	DW07.03200	Total hardness	Hardness By Calculation, ICP	SM 2340 B	UT

Category: DW08 --Organic Parameters - Chromatography

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	DW08.03550	Dibromo-3-chloropropane (1,2-)	Solvent Extract, GC	EPA 504.1	UT
Certified	Yes	DW08.03600	Dibromoethane (1,2-) (EDB)	Solvent Extract, GC	EPA 504.1	UT
Certified	Yes	DW08.05300	Alachlor	GC with Nitrogen/Phosphorus Detector	EPA 507	UT
Certified	Yes	DW08.05350	Atrazine	GC with Nitrogen/Phosphorus Detector	EPA 507	UT

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Category: DW08 --Organic Parameters - Chromatography

Status	Eligible to Report Data	Report NJ Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	DW08.05400	Butachlor	GC with Nitrogen/Phosphorus Detector	EPA 507	UT
Certified	Yes	DW08.05550	Metolachlor	GC with Nitrogen/Phosphorus Detector	EPA 507	UT
Certified	Yes	DW08.05600	Meitribuzin	GC with Nitrogen/Phosphorus Detector	EPA 507	UT
Certified	Yes	DW08.05700	Simazine	GC with Nitrogen/Phosphorus Detector	EPA 507	UT
Certified	Yes	DW08.17750	Dibromoacetic acid	Liquid/Liquid Extraction/GC	EPA 552.2	UT
Certified	Yes	DW08.17800	Dichloroacetic acid	Liquid/Liquid Extraction/GC	EPA 552.2	UT
Certified	Yes	DW08.17850	Monobromoacetic acid (MBAA)	Liquid/Liquid Extraction/GC	EPA 552.2	UT
Certified	Yes	DW08.17900	Monochloroacetic acid (MCAA)	Liquid/Liquid Extraction/GC	EPA 552.2	UT
Certified	Yes	DW08.18000	Trichloroacetic acid	Liquid/Liquid Extraction/GC	EPA 552.2	UT

Category: DW09 --Organic Parameters - Chromatography/MS

Status	Eligible to Report Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	DW09.11450	Acetone	GC/MS, P & T	EPA 524.2	UT
Certified	Yes	DW09.11600	Benzene	GC/MS, P & T	EPA 524.2	UT
Certified	Yes	DW09.11650	Bromobenzene	GC/MS, P & T	EPA 524.2	UT
Certified	Yes	DW09.11700	Bromochloromethane	GC/MS, P & T	EPA 524.2	UT
Certified	Yes	DW09.11750	Bromodichloromethane	GC/MS, P & T	EPA 524.2	UT
Certified	Yes	DW09.11800	Bromoform	GC/MS, P & T	EPA 524.2	UT
Certified	Yes	DW09.11850	Bromomethane	GC/MS, P & T	EPA 524.2	UT
Certified	Yes	DW09.11900	Butanone (2-) (Methyl ethyl ketone)	GC/MS, P & T	EPA 524.2	UT
Certified	Yes	DW09.11950	Butylbenzene (n-)	GC/MS, P & T	EPA 524.2	UT
Certified	Yes	DW09.12000	Carbon disulfide	GC/MS, P & T	EPA 524.2	UT
Certified	Yes	DW09.12050	Carbon tetrachloride	GC/MS, P & T	EPA 524.2	UT
Certified	Yes	DW09.12150	Chlorobenzene	GC/MS, P & T	EPA 524.2	UT
Certified	Yes	DW09.12250	Chloroethane	GC/MS, P & T	EPA 524.2	UT

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Category: DW09 --Organic Parameters - Chromatography/MS

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	DW09.12300	Chloroform	GC/MS, P & T	EPA 524.2	UT
Certified	Yes	DW09.12350	Chloromethane	GC/MS, P & T	EPA 524.2	UT
Certified	Yes	DW09.12400	Chloroethene (2-)	GC/MS, P & T	EPA 524.2	UT
Certified	Yes	DW09.12450	Chloroethene (4-)	GC/MS, P & T	EPA 524.2	UT
Certified	Yes	DW09.12550	Dibromochloromethane	GC/MS, P & T	EPA 524.2	UT
Certified	Yes	DW09.12650	Dibromomethane	GC/MS, P & T	EPA 524.2	UT
Certified	Yes	DW09.12750	Dichlorobenzene (1,2-)	GC/MS, P & T	EPA 524.2	UT
Certified	Yes	DW09.12800	Dichlorobenzene (1,3-)	GC/MS, P & T	EPA 524.2	UT
Certified	Yes	DW09.12850	Dichlorobenzene (1,4-)	GC/MS, P & T	EPA 524.2	UT
Certified	Yes	DW09.12900	Dichlorodifluoromethane	GC/MS, P & T	EPA 524.2	UT
Certified	Yes	DW09.12950	Dichloroethane (1,1-)	GC/MS, P & T	EPA 524.2	UT
Certified	Yes	DW09.13000	Dichloroethane (1,2-)	GC/MS, P & T	EPA 524.2	UT
Certified	Yes	DW09.13050	Dichloroethene (1,1-)	GC/MS, P & T	EPA 524.2	UT
Certified	Yes	DW09.13100	Dichloroethene (cis-1,2-)	GC/MS, P & T	EPA 524.2	UT
Certified	Yes	DW09.13150	Dichloroethene (trans-1,2-)	GC/MS, P & T	EPA 524.2	UT
Certified	Yes	DW09.13200	Dichloropropane (1,2-)	GC/MS, P & T	EPA 524.2	UT
Certified	Yes	DW09.13250	Dichloropropane (1,3-)	GC/MS, P & T	EPA 524.2	UT
Certified	Yes	DW09.13300	Dichloropropane (2,2-)	GC/MS, P & T	EPA 524.2	UT
Certified	Yes	DW09.13400	Dichloropropane (1,1-)	GC/MS, P & T	EPA 524.2	UT
Certified	Yes	DW09.13450	Dichloropropene (cis-1,3-)	GC/MS, P & T	EPA 524.2	UT
Certified	Yes	DW09.13500	Dichloropropene (trans-1,3-)	GC/MS, P & T	EPA 524.2	UT
Certified	Yes	DW09.13700	Ethylbenzene	GC/MS, P & T	EPA 524.2	UT
Certified	Yes	DW09.13800	Hexachlorobutadiene (1,3-)	GC/MS, P & T	EPA 524.2	UT
Certified	Yes	DW09.13950	Hexanone (2-)	GC/MS, P & T	EPA 524.2	UT
Certified	Yes	DW09.14000	Isopropylbenzene	GC/MS, P & T	EPA 524.2	UT
Certified	Yes	DW09.14050	Isopropyltoluene (4-)	GC/MS, P & T	EPA 524.2	UT
Certified	Yes	DW09.14200	Methyl iodide	GC/MS, P & T	EPA 524.2	UT

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Category: DW09 --Organic Parameters - Chromatography/MS

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	DW09.14300	Methyl tert-butyl ether	GC/MS, P & T	EPA 524.2	UT
Certified	Yes	DW09.14350	Methylene chloride (Dichloromethane)	GC/MS, P & T	EPA 524.2	UT
Certified	Yes	DW09.14400	Naphthalene	GC/MS, P & T	EPA 524.2	UT
Certified	Yes	DW09.14600	Pentanone (4-methyl-2-) (MIBK)	GC/MS, P & T	EPA 524.2	UT
Certified	Yes	DW09.14700	Propylbenzene (n-)	GC/MS, P & T	EPA 524.2	UT
Certified	Yes	DW09.14750	Sec-butylbenzene	GC/MS, P & T	EPA 524.2	UT
Certified	Yes	DW09.14800	Styrene	GC/MS, P & T	EPA 524.2	UT
Certified	Yes	DW09.14950	Tert-butylbenzene	GC/MS, P & T	EPA 524.2	UT
Certified	Yes	DW09.15000	Tetrachloroethane (1,1,1,2-)	GC/MS, P & T	EPA 524.2	UT
Certified	Yes	DW09.15050	Tetrachloroethane (1,1,2,2-)	GC/MS, P & T	EPA 524.2	UT
Certified	Yes	DW09.15100	Tetrachloroethene	GC/MS, P & T	EPA 524.2	UT
Certified	Yes	DW09.15150	Tetrahydrofuran	GC/MS, P & T	EPA 524.2	UT
Certified	Yes	DW09.15200	Toluene	GC/MS, P & T	EPA 524.2	UT
Certified	Yes	DW09.15250	Trichlorobenzene (1,2,3-)	GC/MS, P & T	EPA 524.2	UT
Certified	Yes	DW09.15300	Trichlorobenzene (1,2,4)	GC/MS, P & T	EPA 524.2	UT
Certified	Yes	DW09.15350	Trichlorobenzene (1,3,5-)	GC/MS, P & T	EPA 524.2	UT
Certified	Yes	DW09.15400	Trichloroethane (1,1,1-)	GC/MS, P & T	EPA 524.2	UT
Certified	Yes	DW09.15450	Trichloroethane (1,1,2-)	GC/MS, P & T	EPA 524.2	UT
Certified	Yes	DW09.15500	Trichloroethene	GC/MS, P & T	EPA 524.2	UT
Certified	Yes	DW09.15550	Trichlorofluoromethane	GC/MS, P & T	EPA 524.2	UT
Certified	Yes	DW09.16000	Trichloropropane (1,2,3-)	GC/MS, P & T	EPA 524.2	UT
Certified	Yes	DW09.16050	Trimethylbenzene (1,2,4-)	GC/MS, P & T	EPA 524.2	UT
Certified	Yes	DW09.16100	Trimethylbenzene (1,3,5-)	GC/MS, P & T	EPA 524.2	UT
Certified	Yes	DW09.16150	Vinyl chloride	GC/MS, P & T	EPA 524.2	UT
Certified	Yes	DW09.16300	Xylenes (total)	GC/MS, P & T	EPA 524.2	UT

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Category: DW10 --Radiochem. - Radioactivity/Radionuclides

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	DW10.00700	Gamma emitters	Gamma Spectrometry	EPA 901.1	UT
Certified	Yes	DW10.01350	Gross - alpha-beta	Proportional or Scintillation	EPA 900.0	UT
Certified	Yes	DW10.02550	Radium - 226	Radiochemical	EPA 903.0	UT
Certified	Yes	DW10.02850	Radium - 226	Radiochemical	SM 7500-Ra B	UT
Certified	Yes	DW10.03250	Radium - 228	Precipitation	EPA 904.0	UT
Certified	Yes	DW10.03750	Radium - total	Precipitation	EPA 903.0	UT
Certified	Yes	DW10.04100	Strontium - 89, 90	Total Sr & Strontium 90	EPA 905.0	UT
Certified	Yes	DW10.04450	Strontium - 90	Strontium 90	EPA 905.0	UT
Certified	Yes	DW10.04750	Tritium	Distillation/Liquid Scintillation	EPA 906.0	UT
Certified	Yes	DW10.05050	Uranium	Alpha Spectrometry	ASTM D3972	LA
Certified	Yes	DW10.05100	Uranium	Laser Phosphorimetry	ASTM D5174	UT

Category: DW11 --Radon in Drinking Water

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	DW11.00100	Radon	Liquid Scintillation	SM 7500-Rn	UT

Category: NPW01 --Microbiology

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW01.00150	Enterococci	Multiple Tube/Multiple Well - Enterolert	ASTM D6603-99	LA
Certified	Yes	NPW01.01400	Fecal coliform	Multiple Tube A-1	EPA 1681	LA

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Category: NPW03--Inorganic Parameters

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW03.00100	Acidity as CaCO3	Electrometric or Phenolphthalein	SM 2310 B-11	LA
Certified	Yes	NPW03.00350	Alkalinity as CaCO3	Electrometric Titration	SM 2320 B-11	LA
Certified	Yes	NPW03.00360	Alkalinity as CaCO3	Titrimetric Indicator	SM 2320B-11	LA
Certified	Yes	NPW03.00550	Alkalinity as CaCO3	Automated Titration	EPA 310.2	LA
Certified	Yes	NPW03.01100	Ammonia	Distillation or Gas Diffusion, Semi-automated Phenate	EPA 350.1	LA
Certified	Yes	NPW03.01150	Ammonia	Distillation or Gas Diffusion, Semi-automated Phenate	SM 4500-NH3 B plus G-11	LA
Certified	Yes	NPW03.01550	Biochemical oxygen demand	Dissolved Oxygen Depletion - Membrane Electrode	SM 5210 B-16	LA
Certified	Yes	NPW03.02400	Bromide	Ion Chromatography	EPA 300.0	LA
Certified	Yes	NPW03.02500	Bromide	Ion Chromatography	SW-846 9056A	LA
Certified	Yes	NPW03.02900	Carbonaceous BOD (CBOD)	DiSS. Oxygen Depl., Nitri. Inhib. - Membrane Electrode	SM 5210 B-16	LA
Certified	Yes	NPW03.03500	Chemical oxygen demand	Spectrophotometric Manual/Auto	EPA 410.4	LA
Certified	Yes	NPW03.03600	Chemical oxygen demand	Spectrophotometric Manual/Auto	SM 5220 D-11	LA
Certified	Yes	NPW03.03900	Chlorate	Ion Chromatography	EPA 300.0	LA
Certified	Yes	NPW03.04900	Chloride	Ion Chromatography	EPA 300.0	LA
Certified	Yes	NPW03.05000	Chloride	Ion Chromatography	SM 4110 B-11	LA
Certified	Yes	NPW03.05100	Chloride	Ion Chromatography	SW-846 9056A	LA
Certified	Yes	NPW03.06000	Color	Colorimetric (Platinum-Cobalt)	SM 2120 B-11	LA
Certified	Yes	NPW03.06400	Cyanide	Distillation, Spectrophotometric (Manual)	SM 4500-CN B-16 plus E-16	LA
Certified	Yes	NPW03.06450	Cyanide	Distillation, Spectrophotometric (Manual)	SM 4500-CN C-16 plus E-16	LA
Certified	Yes	NPW03.06750	Cyanide	Distillation, Spectrophotometric (Auto)	EPA 335.4	LA
Certified	Yes	NPW03.06850	Cyanide	Colorimetric, Automated	SW-846 9012B	LA
Certified	Yes	NPW03.07200	Cyanide	Distillation	SW-846 9010C	LA
Certified	Yes	NPW03.07300	Cyanide - amenable to Cl2	Manual Distillation, Titrimetr/Spectro	SM 4500-CN B-16 plus G-16	LA
Certified	Yes	NPW03.07350	Cyanide - amenable to Cl2	Manual Distillation, Titrimetr/Spectro	SM 4500-CN C-16 plus G-16	LA
Certified	Yes	NPW03.07600	Cyanide - amenable to Cl2	Distillation	SW-846 9010C	LA
Certified	Yes	NPW03.07700	Dissolved organic carbon (DOC)	Filtration and Combustion	SM 5310 B-14	LA
Certified	Yes	NPW03.08500	Fluoride	Ion Chromatography	EPA 300.0	LA



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Category: NPW03--Inorganic Parameters



Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW03.08600	Fluoride	Ion Chromatography	SM 4110 B-11	LA
Certified	Yes	NPW03.08700	Fluoride	Ion Chromatography	SW-846 9056A	LA
Certified	Yes	NPW03.09050	Hardness - total as CaCO3	Automated Colorimetric	EPA 130.1	LA
Certified	Yes	NPW03.10600	Kjeldahl nitrogen - total	Digestion, Semiauto. Digestor, Colorimetric	EPA 351.2	LA
Certified	Yes	NPW03.10650	Kjeldahl nitrogen - total	Digestion, Semiauto. Digestor, Colorimetric	SM 4500 N Org D-11	LA
Certified	Yes	NPW03.11050	Nitrate	Ion Chromatography	EPA 300.0	LA
Certified	Yes	NPW03.11150	Nitrate	Ion Chromatography	SM 4110 B-11	LA
Certified	Yes	NPW03.11250	Nitrate	Ion Chromatography	SW-846 9056A	LA
Certified	Yes	NPW03.11950	Nitrate - nitrite	Cadmium Reduction, Automated	EPA 353.2	LA
Certified	Yes	NPW03.12000	Nitrate - nitrite	Cadmium Reduction, Automated	SM 4500-NO3 F-16	LA
Certified	Yes	NPW03.12450	Nitrate - nitrite	Cadmium Reduction, Automated	EPA 300.0	LA
Certified	Yes	NPW03.12550	Nitrate - nitrite	Ion Chromatography	SM 4110 B-11	LA
Certified	Yes	NPW03.13650	Nitrite	Ion Chromatography	EPA 300.0	LA
Certified	Yes	NPW03.13750	Nitrite	Ion Chromatography	SM 4110 B-11	LA
Certified	Yes	NPW03.13900	Nitrite	Ion Chromatography	SM 4110 B-11	LA
Certified	Yes	NPW03.14250	Oil & grease - hem-SPE	Ion Chromatography	SW-846 9056A	LA
Certified	Yes	NPW03.14300	Oil & grease - hem-SPE	Gravimetric, Hexane Extractable Material-SPE	EPA 1664A	LA
Certified	Yes	NPW03.14450	Oil & grease - hem-SPE	Gravimetric, Hexane Extractable Material-SPE	EPA 1664B	LA
Certified	Yes	NPW03.14500	Oil & grease - sgt-non polar	Gravimetric, Silica Gel Treated-Hem-SPE	EPA 1664B	LA
Certified	Yes	NPW03.14750	Organic nitrogen	Gravimetric, Silica Gel Treated-Hem-SPE	EPA 1664A	LA
Certified	Yes	NPW03.14850	Organic nitrogen	Total Kjeldahl-N Minus Ammonia-N	SM TKN - NH3 method references	LA
Certified	Yes	NPW03.15350	Orthophosphate	Total Kjeldahl-N Minus Ammonia-N	EPA TKN - NH3 method references	LA
Certified	Yes	NPW03.16450	Perchlorate	Ascorbic Acid, Manual Single Reagent	SM 4500-P E-11	LA
Certified	Yes	NPW03.16850	Phenols	Ion Chromatography	EPA 314.0	LA
Certified	Yes	NPW03.16900	Phenols	Manual Distillation, Colorimetric Auto	EPA 420.4	LA
Certified	Yes	NPW03.17350	Phosphorus (total)	Manual Distillation, Colorimetric Auto	SW-846 9066	LA
Certified	Yes	NPW03.17350	Phosphorus (total)	Auto Ascorbic Acid Reduction	EPA 365.1	LA

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Category: NPW03--Inorganic Parameters

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW03.17500	Phosphorus (total)	Auto Ascorbic Acid Reduction	SM 4500-P B5-11 plus H-11	LA
Certified	Yes	NPW03.17750	Phosphorus (total)	Semi-Automated Block Digester	EPA 365.4	LA
Certified	Yes	NPW03.17850	Residue - filterable (TDS)	Gravimetric, 180 Degrees C	SM 2540 C-15	LA
Certified	Yes	NPW03.18000	Residue - nonfilterable (TSS)	Gravimetric, 103-105 Degrees C, Post Washing	SM 2540 D-15	LA
Certified	Yes	NPW03.18050	Residue - nonfilterable (TSS)	Gravimetric, 103-105 Degrees C, Post Washing	USGS I-3765-85	LA
Certified	Yes	NPW03.18100	Residue - settleable	Volumetric (Imhoff Cone) or Gravimetric	SM 2540 F-15	LA
Certified	Yes	NPW03.18150	Residue - total	Gravimetric, 103-105 Degrees C	SM 2540 B-15	LA
Certified	Yes	NPW03.18250	Residue - volatile	Gravimetric, 550 Degrees C	EPA 160.4	LA
Certified	Yes	NPW03.18750	Specific conductance	Wheatstone Bridge	EPA 120.1	LA
Certified	Yes	NPW03.18800	Specific conductance	Wheatstone Bridge	SM 2510 B-11	LA
Certified	Yes	NPW03.18850	Specific conductance	Wheatstone Bridge	SW-846 9050A	LA
Certified	Yes	NPW03.19850	Sulfate	Ion Chromatography	EPA 300.0	LA
Certified	Yes	NPW03.19950	Sulfate	Ion Chromatography	SM 4110 B-11	LA
Certified	Yes	NPW03.20050	Sulfate	Ion Chromatography	SM 4110 B-11	LA
Certified	Yes	NPW03.20500	Sulfides	Colorimetric (Methylene Blue)	SW-846 9056A	LA
Certified	Yes	NPW03.20750	Surfactants	Colorimetric (Methylene Blue)	SM 4500-S B, C plus D-11	LA
Certified	Yes	NPW03.21110	Total organic carbon (TOC)	Combustion	SM 5540 C-11	LA
Certified	Yes	NPW03.21450	Total organic carbon (TOC)	Infrared Spectrometry or FID	SM 5310 B-14	LA
Certified	Yes	NPW03.21650	Total organic halides (TOX)	Pyrolysis, Titrimetric	SW-846 9060A	LA
Certified	Yes	NPW03.21700	Total organic halides (TOX)	Combustion, Titration	SM 5320 B	LA
Certified	Yes	NPW03.22100	Turbidity	Nephelometric	SW-846 9020B	LA
Certified	Yes	NPW03.22150	Turbidity	Nephelometric	EPA 180.1	LA
Certified	Yes	NPW03.22150	Turbidity	Nephelometric	SM 2130 B-11	LA

Category: NPW04--Analyze Immed, Cont Monitor and/or PWTA

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Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW04.00200	Chlorine	Continuous DPD, Colorimetric	SM 4500-Cl G-11	LA
Certified	Yes	NPW04.00400	Chlorine	Spectrophotometric, DPD	SM 4500-Cl G-11	LA
Certified	Yes	NPW04.00950	Oxygen (dissolved)	Membrane Electrode	SM 4500-O G-16	LA
Certified	Yes	NPW04.01300	Oxygen (dissolved)	Winkler, Azide Modification	SM 4500-O C-16	LA
Certified	Yes	NPW04.01650	pH	Electrometric	SM 4500-H B-11	LA
Certified	Yes	NPW04.01750	pH (corrosivity)	Aqueous, Electrometric	SW-846 9040C	LA
Certified	Yes	NPW04.01850	Sulfite - SO3	Titrimetric, Iodine-Iodate	SM 4500-SO3 B-11	LA
Certified	Yes	NPW04.01950	Temperature	Thermometric	SM 2550 B-10	LA

Category: NPW06--Metals - NPW Preparation Methods

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW06.00050	Metals	TCLP, Toxicity Procedure, Shaker	SW-846 1311	LA
Certified	Yes	NPW06.00100	Metals	Synthetic PPT Leachate Procedure	SW-846 1312	LA
Certified	Yes	NPW06.00300	Metals	Microwave Acid Digestion/Aqueous	SW-846 3015A	LA

Category: NPW07--Metals

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW07.03200	Chromium (VI)	0.45u Filter, Ion Chromatography	EPA 218.6	LA
Certified	Yes	NPW07.03350	Mercury	Manual Cold Vapor	EPA 245.1	LA
Certified	Yes	NPW07.08650	Chromium (VI)	0.45u Filter, Colorimetric DPC	SM 3500-Cr B-11	LA
Certified	Yes	NPW07.08700	Chromium (VI)	0.45u Filter, Ion Chromatography	SM 3500-Cr C-11	LA
Certified	Yes	NPW07.08850	Iron, Ferrous	Digestion, Colorimetric (Phenanthroline)	SM 3500-Fe B-11	LA
Certified	Yes	NPW07.11950	Chromium (VI)	Colorimetric	SW-846 7196A	LA
Certified	Yes	NPW07.12100	Chromium (VI)	Ion Chromatography	SW-846 7199	LA

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New Jersey Department of Environment Protection
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Category: NPW07--Metals

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW07.12150	Mercury - liquid waste	AA, Manual Cold Vapor	SW-846 7470A	LA

Category: NPW08--Metals - ICP, ICP/MS and DCP

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW08.04150	Aluminum	Digestion, ICP	EPA 200.7	LA
Certified	Yes	NPW08.04200	Antimony	Digestion, ICP	EPA 200.7	LA
Certified	Yes	NPW08.04250	Arsenic	Digestion, ICP	EPA 200.7	LA
Certified	Yes	NPW08.04300	Barium	Digestion, ICP	EPA 200.7	LA
Certified	Yes	NPW08.04350	Beryllium	Digestion, ICP	EPA 200.7	LA
Certified	Yes	NPW08.04400	Boron	ICP	EPA 200.7	LA
Certified	Yes	NPW08.04450	Cadmium	Digestion, ICP	EPA 200.7	LA
Certified	Yes	NPW08.04500	Calcium	Digestion, ICP	EPA 200.7	LA
Certified	Yes	NPW08.04550	Chromium	Digestion, ICP	EPA 200.7	LA
Certified	Yes	NPW08.04600	Cobalt	Digestion, ICP	EPA 200.7	LA
Certified	Yes	NPW08.04650	Copper	Digestion, ICP	EPA 200.7	LA
Certified	Yes	NPW08.04700	Iron	Digestion, ICP	EPA 200.7	LA
Certified	Yes	NPW08.04750	Lead	Digestion, ICP	EPA 200.7	LA
Certified	Yes	NPW08.04800	Lithium	Digestion, ICP	EPA 200.7	LA
Certified	Yes	NPW08.04850	Magnesium	Digestion, ICP	EPA 200.7	LA
Certified	Yes	NPW08.04900	Manganese	Digestion, ICP	EPA 200.7	LA
Certified	Yes	NPW08.04950	Molybdenum	Digestion, ICP	EPA 200.7	LA
Certified	Yes	NPW08.05000	Nickel	Digestion, ICP	EPA 200.7	LA
Certified	Yes	NPW08.05050	Phosphorus (total)	Digestion, ICP	EPA 200.7	LA
Certified	Yes	NPW08.05100	Potassium	Digestion, ICP	EPA 200.7	LA
Certified	Yes	NPW08.05150	Selenium	Digestion, ICP	EPA 200.7	LA

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Category: NPW08--Metals - ICP, ICP/MS and DCP

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW08.05200	Silica - dissolved	0.45u Filtration + ICP	EPA 200.7	LA
Certified	Yes	NPW08.05250	Silver	Digestion, ICP	EPA 200.7	LA
Certified	Yes	NPW08.05300	Sodium	Digestion, ICP	EPA 200.7	LA
Certified	Yes	NPW08.05350	Strontium	Digestion, ICP	EPA 200.7	LA
Certified	Yes	NPW08.05400	Thallium	Digestion, ICP	EPA 200.7	LA
Certified	Yes	NPW08.05450	Tin	Digestion, ICP	EPA 200.7	LA
Certified	Yes	NPW08.05500	Titanium	Digestion, ICP	EPA 200.7	LA
Certified	Yes	NPW08.05550	Vanadium	Digestion, ICP	EPA 200.7	LA
Certified	Yes	NPW08.05600	Zinc	Digestion, ICP	EPA 200.7	LA
Certified	Yes	NPW08.05650	Aluminum	Digestion, ICP	EPA 200.7	LA
Certified	Yes	NPW08.05700	Antimony	Digestion, ICP/MS	EPA 200.8	LA
Certified	Yes	NPW08.05750	Arsenic	Digestion, ICP/MS	EPA 200.8	LA
Certified	Yes	NPW08.05800	Barium	Digestion, ICP/MS	EPA 200.8	LA
Certified	Yes	NPW08.05850	Beryllium	Digestion, ICP/MS	EPA 200.8	LA
Certified	Yes	NPW08.05900	Boron	Digestion, ICP/MS	EPA 200.8	LA
Certified	Yes	NPW08.05950	Cadmium	Digestion, ICP/MS	EPA 200.8	LA
Certified	Yes	NPW08.06000	Calcium	Digestion, ICP/MS	EPA 200.8	LA
Certified	Yes	NPW08.06050	Chromium	Digestion, ICP/MS	EPA 200.8	LA
Certified	Yes	NPW08.06100	Cobalt	Digestion, ICP/MS	EPA 200.8	LA
Certified	Yes	NPW08.06150	Copper	Digestion, ICP/MS	EPA 200.8	LA
Certified	Yes	NPW08.06250	Iron	Digestion, ICP/MS	EPA 200.8	LA
Certified	Yes	NPW08.06300	Lead	Digestion, ICP/MS	EPA 200.8	LA
Certified	Yes	NPW08.06350	Magnesium	Digestion, ICP/MS	EPA 200.8	LA
Certified	Yes	NPW08.06400	Manganese	Digestion, ICP/MS	EPA 200.8	LA
Certified	Yes	NPW08.06450	Molybdenum	Digestion, ICP/MS	EPA 200.8	LA
Certified	Yes	NPW08.06500	Nickel	Digestion, ICP/MS	EPA 200.8	LA
Certified	Yes	NPW08.06550	Potassium	Digestion, ICP/MS	EPA 200.8	LA

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Category: NPW08--Metals - ICP, ICP/MS and DCP

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW08.06600	Selenium	Digestion, ICP/MS	EPA 200.8	LA
Certified	Yes	NPW08.06700	Silver	Digestion, ICP/MS	EPA 200.8	LA
Certified	Yes	NPW08.06750	Sodium	Digestion, ICP/MS	EPA 200.8	LA
Certified	Yes	NPW08.06800	Strontium	ICP/MS	EPA 200.8	LA
Certified	Yes	NPW08.06850	Thallium	Digestion, ICP/MS	EPA 200.8	LA
Certified	Yes	NPW08.06900	Thorium	Digestion, ICP/MS	EPA 200.8	LA
Certified	Yes	NPW08.06950	Tin	Digestion, ICP/MS	EPA 200.8	LA
Certified	Yes	NPW08.07000	Titanium	Digestion, ICP/MS	EPA 200.8	LA
Certified	Yes	NPW08.07100	Uranium	Digestion, ICP/MS	EPA 200.8	LA
Certified	Yes	NPW08.07150	Vanadium	Digestion, ICP/MS	EPA 200.8	LA
Certified	Yes	NPW08.07200	Zinc	Digestion, ICP/MS	EPA 200.8	LA
Certified	Yes	NPW08.09800	Hardness - total as CaCO3	Digestion, ICP/MS	EPA 200.8	LA
Certified	Yes	NPW08.12800	Aluminum	Ca + Mg Carbonates, ICP	SM 2340 B-11	LA
Certified	Yes	NPW08.12850	Antimony	ICP	SW-846 6010D	LA
Certified	Yes	NPW08.12900	Arsenic	ICP	SW-846 6010D	LA
Certified	Yes	NPW08.12950	Barium	ICP	SW-846 6010D	LA
Certified	Yes	NPW08.13000	Beryllium	ICP	SW-846 6010D	LA
Certified	Yes	NPW08.13050	Boron	ICP	SW-846 6010D	LA
Certified	Yes	NPW08.13100	Cadmium	ICP	SW-846 6010D	LA
Certified	Yes	NPW08.13150	Calcium	ICP	SW-846 6010D	LA
Certified	Yes	NPW08.13200	Chromium	ICP	SW-846 6010D	LA
Certified	Yes	NPW08.13250	Cobalt	ICP	SW-846 6010D	LA
Certified	Yes	NPW08.13300	Copper	ICP	SW-846 6010D	LA
Certified	Yes	NPW08.13350	Iron	ICP	SW-846 6010D	LA
Certified	Yes	NPW08.13400	Lead	ICP	SW-846 6010D	LA
Certified	Yes	NPW08.13450	Lithium	ICP	SW-846 6010D	LA
Certified	Yes	NPW08.13500	Magnesium	ICP	SW-846 6010D	LA

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Category: NPW08--Metals - ICP, ICP/MS and DCP

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW08.13550	Manganese	ICP	SW-846 6010D	LA
Certified	Yes	NPW08.13600	Molybdenum	ICP	SW-846 6010D	LA
Certified	Yes	NPW08.13650	Nickel	ICP	SW-846 6010D	LA
Certified	Yes	NPW08.13700	Phosphorus	ICP	SW-846 6010D	LA
Certified	Yes	NPW08.13750	Potassium	ICP	SW-846 6010D	LA
Certified	Yes	NPW08.13800	Selenium	ICP	SW-846 6010D	LA
Certified	Yes	NPW08.13850	Silver	ICP	SW-846 6010D	LA
Certified	Yes	NPW08.13900	Sodium	ICP	SW-846 6010D	LA
Certified	Yes	NPW08.13950	Strontium	ICP	SW-846 6010D	LA
Certified	Yes	NPW08.14000	Thallium	ICP	SW-846 6010D	LA
Certified	Yes	NPW08.14100	Tin	ICP	SW-846 6010D	LA
Certified	Yes	NPW08.14150	Titanium	ICP	SW-846 6010D	LA
Certified	Yes	NPW08.14250	Vanadium	ICP	SW-846 6010D	LA
Certified	Yes	NPW08.14300	Zinc	ICP	SW-846 6010D	LA
Certified	Yes	NPW08.14400	Aluminum	ICP/MS	SW-846 6010D	LA
Certified	Yes	NPW08.14450	Antimony	ICP/MS	SW-846 6020B	LA
Certified	Yes	NPW08.14500	Arsenic	ICP/MS	SW-846 6020B	LA
Certified	Yes	NPW08.14550	Barium	ICP/MS	SW-846 6020B	LA
Certified	Yes	NPW08.14600	Beryllium	ICP/MS	SW-846 6020B	LA
Certified	Yes	NPW08.14650	Boron	ICP/MS	SW-846 6020B	LA
Certified	Yes	NPW08.14700	Cadmium	ICP/MS	SW-846 6020B	LA
Certified	Yes	NPW08.14750	Calcium	ICP/MS	SW-846 6020B	LA
Certified	Yes	NPW08.14800	Chromium	ICP/MS	SW-846 6020B	LA
Certified	Yes	NPW08.14850	Cobalt	ICP/MS	SW-846 6020B	LA
Certified	Yes	NPW08.14900	Copper	ICP/MS	SW-846 6020B	LA
Certified	Yes	NPW08.14950	Iron	ICP/MS	SW-846 6020B	LA
Certified	Yes	NPW08.15000	Lead	ICP/MS	SW-846 6020B	LA



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12065 LEBANON RD
MT. JULIET TN 37122



Category: NPW08--Metals - ICP, ICP/MS and DCP

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW08.15050	Magnesium	ICP/MS	SW-846 6020B	LA
Certified	Yes	NPW08.15100	Manganese	ICP/MS	SW-846 6020B	LA
Certified	Yes	NPW08.15150	Molybdenum	ICP/MS	SW-846 6020B	LA
Certified	Yes	NPW08.15200	Nickel	ICP/MS	SW-846 6020B	LA
Certified	Yes	NPW08.15250	Potassium	ICP/MS	SW-846 6020B	LA
Certified	Yes	NPW08.15300	Selenium	ICP/MS	SW-846 6020B	LA
Certified	Yes	NPW08.15400	Silver	ICP/MS	SW-846 6020B	LA
Certified	Yes	NPW08.15450	Sodium	ICP/MS	SW-846 6020B	LA
Certified	Yes	NPW08.15500	Strontium	ICP/MS	SW-846 6020B	LA
Certified	Yes	NPW08.15550	Thallium	ICP/MS	SW-846 6020B	LA
Certified	Yes	NPW08.15600	Thorium	ICP/MS	SW-846 6020B	LA
Certified	Yes	NPW08.15650	Tin	ICP/MS	SW-846 6020B	LA
Certified	Yes	NPW08.15700	Titanium	ICP/MS	SW-846 6020B	LA
Certified	Yes	NPW08.15800	Uranium	ICP/MS	SW-846 6020B	LA
Certified	Yes	NPW08.15850	Vanadium	ICP/MS	SW-846 6020B	LA
Certified	Yes	NPW08.15900	Zinc	ICP/MS	SW-846 6020B	LA

Category: NPW09--Organics - NPW Preparation Methods

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW09.00250	Organics	Synthetic PPT Leachate Procedure	SW-846 1312	LA
Certified	Yes	NPW09.00450	Semivolatile organics	TCLP, Toxicity Procedure, Shaker	SW-846 1311	LA
Certified	Yes	NPW09.00500	Semivolatile organics	Separatory Funnel Extraction	SW-846 3510C	LA
Certified	Yes	NPW09.00550	Semivolatile organics	Microscale Solvent Extraction - Aqueous	SW-846 3511	LA
Certified	Yes	NPW09.01350	Volatile organics	TCLP, Toxicity Procedure, ZHE	SW-846 1311	LA
Certified	Yes	NPW09.01550	Volatile organics	Purge & Trap Aqueous	SW-846 5030C	LA

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Category: NPW/10--Organic Parameters - Chromatography

Status	Eligible to Report Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW/10.07700	Azinphos methyl	Extract/GC (FPD)	EPA 1657	LA
Certified	Yes	NPW/10.07750	Bolstar	Extract/GC (FPD)	EPA 1657	LA
Certified	Yes	NPW/10.07800	Chlorpyrifos	Extract/GC (FPD)	EPA 1657	LA
Certified	Yes	NPW/10.07850	Coumaphos	Extract/GC (FPD)	EPA 1657	LA
Certified	Yes	NPW/10.07950	Diazinon	Extract/GC (FPD)	EPA 1657	LA
Certified	Yes	NPW/10.08000	Dichlorvos	Extract/GC (FPD)	EPA 1657	LA
Certified	Yes	NPW/10.08050	Dimethoate	Extract/GC (FPD)	EPA 1657	LA
Certified	Yes	NPW/10.08150	Disulfoton	Extract/GC (FPD)	EPA 1657	LA
Certified	Yes	NPW/10.08200	EPN	Extract/GC (FPD)	EPA 1657	LA
Certified	Yes	NPW/10.08300	Ethoprop	Extract/GC (FPD)	EPA 1657	LA
Certified	Yes	NPW/10.08350	Fensulfotion	Extract/GC (FPD)	EPA 1657	LA
Certified	Yes	NPW/10.08400	Fenthion	Extract/GC (FPD)	EPA 1657	LA
Certified	Yes	NPW/10.08450	Malathion	Extract/GC (FPD)	EPA 1657	LA
Certified	Yes	NPW/10.08500	Merphos	Extract/GC (FPD)	EPA 1657	LA
Certified	Yes	NPW/10.08600	Mevinphos	Extract/GC (FPD)	EPA 1657	LA
Certified	Yes	NPW/10.08650	Naled	Extract/GC (FPD)	EPA 1657	LA
Certified	Yes	NPW/10.08700	Parathion methyl	Extract/GC (FPD)	EPA 1657	LA
Certified	Yes	NPW/10.08750	Phorate	Extract/GC (FPD)	EPA 1657	LA
Certified	Yes	NPW/10.08850	Ronnel	Extract/GC (FPD)	EPA 1657	LA
Certified	Yes	NPW/10.08900	Stirofos	Extract/GC (FPD)	EPA 1657	LA
Certified	Yes	NPW/10.08950	Sulfotepp	Extract/GC (FPD)	EPA 1657	LA
Certified	Yes	NPW/10.09000	TEPP	Extract/GC (FPD)	EPA 1657	LA
Certified	Yes	NPW/10.09100	Tokuthion [Protothios]	Extract/GC (FPD)	EPA 1657	LA
Certified	Yes	NPW/10.09150	Trichloronate	Extract/GC (FPD)	EPA 1657	LA
Certified	Yes	NPW/10.16400	Benzene	Purge & Trap, GC (PID)	EPA 602	LA
Certified	Yes	NPW/10.16650	Ethylbenzene	Purge & Trap, GC (PID)	EPA 602	LA

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Category: NPW10--Organic Parameters - Chromatography

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW10.16700	Methyl tert-butyl ether	Purge & Trap, GC (PID)	EPA 602	LA
Certified	Yes	NPW10.16800	Toluene	Purge & Trap, GC (PID)	EPA 602	LA
Certified	Yes	NPW10.16850	Xylenes (total)	Purge & Trap, GC (PID)	EPA 602	LA
Certified	Yes	NPW10.19150	Aldrin	Extract/GC (ECD)	EPA 608.3	LA
Certified	Yes	NPW10.19200	Alpha BHC	Extract/GC (ECD)	EPA 608.3	LA
Certified	Yes	NPW10.19300	Beta BHC	Extract/GC (ECD)	EPA 608.3	LA
Certified	Yes	NPW10.19650	Chlordane	Extract/GC (ECD)	EPA 608.3	LA
Certified	Yes	NPW10.19700	Chlordane (alpha) (cis-)	Extract/GC (ECD)	EPA 608.3	LA
Certified	Yes	NPW10.19750	Chlordane (gamma) (trans-)	Extract/GC (ECD)	EPA 608.3	LA
Certified	Yes	NPW10.20050	DDD (4,4'-)	Extract/GC (ECD)	EPA 608.3	LA
Certified	Yes	NPW10.20100	DDE (4,4'-)	Extract/GC (ECD)	EPA 608.3	LA
Certified	Yes	NPW10.20150	DDT (4,4'-)	Extract/GC (ECD)	EPA 608.3	LA
Certified	Yes	NPW10.20200	Delta BHC	Extract/GC (ECD)	EPA 608.3	LA
Certified	Yes	NPW10.20350	Dieldrin	Extract/GC (ECD)	EPA 608.3	LA
Certified	Yes	NPW10.20400	Endosulfan I	Extract/GC (ECD)	EPA 608.3	LA
Certified	Yes	NPW10.20450	Endosulfan II	Extract/GC (ECD)	EPA 608.3	LA
Certified	Yes	NPW10.20500	Endosulfan sulfate	Extract/GC (ECD)	EPA 608.3	LA
Certified	Yes	NPW10.20550	Endrin	Extract/GC (ECD)	EPA 608.3	LA
Certified	Yes	NPW10.20600	Endrin aldehyde	Extract/GC (ECD)	EPA 608.3	LA
Certified	Yes	NPW10.20650	Endrin ketone	Extract/GC (ECD)	EPA 608.3	LA
Certified	Yes	NPW10.20800	Heptachlor	Extract/GC (ECD)	EPA 608.3	LA
Certified	Yes	NPW10.20850	Heptachlor epoxide	Extract/GC (ECD)	EPA 608.3	LA
Certified	Yes	NPW10.21000	Lindane (gamma BHC)	Extract/GC (ECD)	EPA 608.3	LA
Certified	Yes	NPW10.21050	Methoxychlor	Extract/GC (ECD)	EPA 608.3	LA
Certified	Yes	NPW10.21800	Toxaphene	Extract/GC (ECD)	EPA 608.3	LA
Certified	Yes	NPW10.21900	PCB 1016	Extract/GC (ECD)	EPA 608.3	LA
Certified	Yes	NPW10.21950	PCB 1221	Extract/GC (ECD)	EPA 608.3	LA

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Category: NPW10--Organic Parameters - Chromatography

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW10.22000	PCB 1232	Extract/GC (ECD)	EPA 608.3	LA
Certified	Yes	NPW10.22050	PCB 1242	Extract/GC (ECD)	EPA 608.3	LA
Certified	Yes	NPW10.22100	PCB 1248	Extract/GC (ECD)	EPA 608.3	LA
Certified	Yes	NPW10.22150	PCB 1254	Extract/GC (ECD)	EPA 608.3	LA
Certified	Yes	NPW10.22200	PCB 1260	Extract/GC (ECD)	EPA 608.3	LA
Certified	Yes	NPW10.22450	Acenaphthene	Extract/HPLC (UV/Fluorescence)	EPA 610	LA
Certified	Yes	NPW10.22500	Acenaphthylene	Extract/HPLC (UV/Fluorescence)	EPA 610	LA
Certified	Yes	NPW10.22550	Anthracene	Extract/HPLC (UV/Fluorescence)	EPA 610	LA
Certified	Yes	NPW10.22600	Benzo(a)anthracene	Extract/HPLC (UV/Fluorescence)	EPA 610	LA
Certified	Yes	NPW10.22650	Benzo(a)pyrene	Extract/HPLC (UV/Fluorescence)	EPA 610	LA
Certified	Yes	NPW10.22700	Benzo(b)fluoranthene	Extract/HPLC (UV/Fluorescence)	EPA 610	LA
Certified	Yes	NPW10.22750	Benzo(ghi)perylene	Extract/HPLC (UV/Fluorescence)	EPA 610	LA
Certified	Yes	NPW10.22800	Benzo(k)fluoranthene	Extract/HPLC (UV/Fluorescence)	EPA 610	LA
Certified	Yes	NPW10.22850	Chrysene	Extract/HPLC (UV/Fluorescence)	EPA 610	LA
Certified	Yes	NPW10.22900	Dibenzo(a,h)anthracene	Extract/HPLC (UV/Fluorescence)	EPA 610	LA
Certified	Yes	NPW10.22950	Fluoranthene	Extract/HPLC (UV/Fluorescence)	EPA 610	LA
Certified	Yes	NPW10.23000	Fluorene	Extract/HPLC (UV/Fluorescence)	EPA 610	LA
Certified	Yes	NPW10.23050	Indeno(1,2,3-cd)pyrene	Extract/HPLC (UV/Fluorescence)	EPA 610	LA
Certified	Yes	NPW10.23100	Naphthalene	Extract/HPLC (UV/Fluorescence)	EPA 610	LA
Certified	Yes	NPW10.23150	Phenanthrene	Extract/HPLC (UV/Fluorescence)	EPA 610	LA
Certified	Yes	NPW10.23200	Pyrene	Extract/HPLC (UV/Fluorescence)	EPA 610	LA
Certified	Yes	NPW10.31400	Ethane	Extract/HPLC (UV/Fluorescence)	EPA 610	LA
Certified	Yes	NPW10.31450	Ethene	GC, Headspace, FID	Other J. Chrom. Sci. RSK-175	LA
Certified	Yes	NPW10.31550	Methane	GC, Headspace, FID	Other J. Chrom. Sci. RSK-175	LA
Certified	Yes	NPW10.31600	Propane	GC, Headspace, FID	Other J. Chrom. Sci. RSK-175	LA
Certified	Yes	NPW10.31650	Extractable Petroleum Hydrocarbons	Extraction, GC, FID	Other NJDEP EPH 10/08, Rev. 3	LA
Certified	Yes	NPW10.39250	Dibromo-3-chloropropane (1,2-)	Extract/GC (ECD)	SW-846 8011	LA

KEY: AE = Air and Emissions, BT = Biological Tissues, DW = Drinking Water, NPW = Non-Potable Water, SCM = Solid and Chemical Materials

New Jersey Department of Environmental Protection
Environmental Laboratory Certification Program

Annual Certified Parameter List and Current Status

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Laboratory Name: PACE ANALYTICAL NATIONAL CENTER Laboratory Number: TN002 Activity ID: NLC 230001
12065 LEBANON RD
MT. JULIET TN 37122



Category: NPW10--Organic Parameters - Chromatography

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW10.39300	Dibromoethane (1,2-) (EDB)	Extract/GC (ECD)	SW-846 8011	LA
Certified	Yes	NPW10.39800	Diesel range organic	Extraction, GC, FID	SW-846 8015D	LA
Certified	Yes	NPW10.40000	Ethyl alcohol	GC, Direct Injection, FID	SW-846 8015D	LA
Certified	Yes	NPW10.40050	Ethylene glycol	GC, Direct Injection, FID	SW-846 8015D	LA
Certified	Yes	NPW10.40200	Gasoline range organic	GC P&T, FID	SW-846 8015D	LA
Certified	Yes	NPW10.40400	Methyl alcohol (Methanol)	GC, Direct Injection, FID	SW-846 8015D	LA
Certified	Yes	NPW10.40800	Propylene glycol	GC, Direct Injection, FID	SW-846 8015D	LA
Certified	Yes	NPW10.41150	Benzene	GC, Direct Injection or P & T, PID-HECD	SW-846 8021B	LA
Certified	Yes	NPW10.42300	Ethylbenzene	GC, Direct Injection or P & T, PID-HECD	SW-846 8021B	LA
Certified	Yes	NPW10.42350	Methyl tert-butyl ether	GC, Direct Injection or P & T, PID-HECD	SW-846 8021B	LA
Certified	Yes	NPW10.42650	Toluene	GC, Direct Injection or P & T, PID-HECD	SW-846 8021B	LA
Certified	Yes	NPW10.42950	Xylene (m-)	GC, Direct Injection or P & T, PID-HECD	SW-846 8021B	LA
Certified	Yes	NPW10.43000	Xylene (o-)	GC, Direct Injection or P & T, PID-HECD	SW-846 8021B	LA
Certified	Yes	NPW10.43050	Xylene (p-)	GC, Direct Injection or P & T, PID-HECD	SW-846 8021B	LA
Certified	Yes	NPW10.43100	Xylenes (total)	GC, Direct Injection or P & T, PID-HECD	SW-846 8021B	LA
Certified	Yes	NPW10.44600	Aldrin	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	LA
Certified	Yes	NPW10.44650	Alpha BHC	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	LA
Certified	Yes	NPW10.44750	Beta BHC	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	LA
Certified	Yes	NPW10.44800	Chlordane (alpha) (cis-)	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	LA
Certified	Yes	NPW10.44850	Chlordane (gamma) (trans-)	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	LA
Certified	Yes	NPW10.44900	Chlordane (technical)	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	LA
Certified	Yes	NPW10.45250	DDD (4,4-)	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	LA
Certified	Yes	NPW10.45300	DDE (4,4-)	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	LA
Certified	Yes	NPW10.45350	DDT (4,4-)	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	LA
Certified	Yes	NPW10.45400	Delta BHC	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	LA
Certified	Yes	NPW10.45450	Dieldrin	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	LA
Certified	Yes	NPW10.45500	Endosulfan I	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	LA

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Category: NPW10--Organic Parameters - Chromatography

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW10.45550	Endosulfan II	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	LA
Certified	Yes	NPW10.45600	Endosulfan sulfate	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	LA
Certified	Yes	NPW10.45650	Endrin	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	LA
Certified	Yes	NPW10.45700	Endrin aldehyde	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	LA
Certified	Yes	NPW10.45750	Endrin ketone	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	LA
Certified	Yes	NPW10.45850	Heptachlor	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	LA
Certified	Yes	NPW10.45900	Heptachlor epoxide	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	LA
Certified	Yes	NPW10.45950	Hexachlorobenzene	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	LA
Certified	Yes	NPW10.46050	Lindane (gamma BHC)	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	LA
Certified	Yes	NPW10.46100	Methoxychlor	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	LA
Certified	Yes	NPW10.46450	Toxaphene	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	LA
Certified	Yes	NPW10.47600	PCB 1016	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	LA
Certified	Yes	NPW10.47650	PCB 1221	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	LA
Certified	Yes	NPW10.47700	PCB 1232	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	LA
Certified	Yes	NPW10.47750	PCB 1242	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	LA
Certified	Yes	NPW10.47800	PCB 1248	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	LA
Certified	Yes	NPW10.47850	PCB 1254	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	LA
Certified	Yes	NPW10.47900	PCB 1260	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	LA
Certified	Yes	NPW10.52750	Azinphos methyl	GC, Extract or Dir Inj, NPD or FPD, Cap	SW-846 8141B	LA
Certified	Yes	NPW10.52800	Bolstar	GC, Extract or Dir Inj, NPD or FPD, Cap	SW-846 8141B	LA
Certified	Yes	NPW10.52850	Chlorpyrifos	GC, Extract or Dir Inj, NPD or FPD, Cap	SW-846 8141B	LA
Certified	Yes	NPW10.52900	Coumaphos	GC, Extract or Dir Inj, NPD or FPD, Cap	SW-846 8141B	LA
Certified	Yes	NPW10.52950	Demeton (o-)	GC, Extract or Dir Inj, NPD or FPD, Cap	SW-846 8141B	LA
Certified	Yes	NPW10.53000	Demeton (s-)	GC, Extract or Dir Inj, NPD or FPD, Cap	SW-846 8141B	LA
Certified	Yes	NPW10.53050	Diazinon	GC, Extract or Dir Inj, NPD or FPD, Cap	SW-846 8141B	LA
Certified	Yes	NPW10.53150	Dichlorvos	GC, Extract or Dir Inj, NPD or FPD, Cap	SW-846 8141B	LA
Certified	Yes	NPW10.53200	Dimethoate	GC, Extract or Dir Inj, NPD or FPD, Cap	SW-846 8141B	LA

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12065 LEBANON RD
MT. JULIET TN 37122

Category: NPW10--Organic Parameters - Chromatography

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW10.53250	Disulfoton	GC, Extract or Dir Inj, NPD or FPD,Cap	SW-846 8141B	LA
Certified	Yes	NPW10.53300	EPN	GC, Extract or Dir Inj, NPD or FPD,Cap	SW-846 8141B	LA
Certified	Yes	NPW10.53350	Ethoprop	GC, Extract or Dir Inj, NPD or FPD,Cap	SW-846 8141B	LA
Certified	Yes	NPW10.53400	Fensulfotfion	GC, Extract or Dir Inj, NPD or FPD,Cap	SW-846 8141B	LA
Certified	Yes	NPW10.53450	Fenthion	GC, Extract or Dir Inj, NPD or FPD,Cap	SW-846 8141B	LA
Certified	Yes	NPW10.54500	Malathion	GC, Extract or Dir Inj, NPD or FPD,Cap	SW-846 8141B	LA
Certified	Yes	NPW10.54550	Merphos	GC, Extract or Dir Inj, NPD or FPD,Cap	SW-846 8141B	LA
Certified	Yes	NPW10.54600	Mevinphos	GC, Extract or Dir Inj, NPD or FPD,Cap	SW-846 8141B	LA
Certified	Yes	NPW10.54650	Naled	GC, Extract or Dir Inj, NPD or FPD,Cap	SW-846 8141B	LA
Certified	Yes	NPW10.54700	Parathion	GC, Extract or Dir Inj, NPD or FPD,Cap	SW-846 8141B	LA
Certified	Yes	NPW10.54750	Parathion methyl	GC, Extract or Dir Inj, NPD or FPD,Cap	SW-846 8141B	LA
Certified	Yes	NPW10.54800	Phorate	GC, Extract or Dir Inj, NPD or FPD,Cap	SW-846 8141B	LA
Certified	Yes	NPW10.54850	Ronnel	GC, Extract or Dir Inj, NPD or FPD,Cap	SW-846 8141B	LA
Certified	Yes	NPW10.54950	Stirofos	GC, Extract or Dir Inj, NPD or FPD,Cap	SW-846 8141B	LA
Certified	Yes	NPW10.55000	Sulfotepp	GC, Extract or Dir Inj, NPD or FPD,Cap	SW-846 8141B	LA
Certified	Yes	NPW10.55050	TEPP	GC, Extract or Dir Inj, NPD or FPD,Cap	SW-846 8141B	LA
Certified	Yes	NPW10.55100	Tokuthion [Protothios]	GC, Extract or Dir Inj, NPD or FPD,Cap	SW-846 8141B	LA
Certified	Yes	NPW10.55150	Trichloronate	GC, Extract or Dir Inj, NPD or FPD,Cap	SW-846 8141B	LA
Certified	Yes	NPW10.55350	D (2,4-)	GC, Extraction, ECD, Capillary	SW-846 8151A	LA
Certified	Yes	NPW10.55400	Dalapon	GC, Extraction, ECD, Capillary	SW-846 8151A	LA
Certified	Yes	NPW10.55450	DB (2,4-)	GC, Extraction, ECD, Capillary	SW-846 8151A	LA
Certified	Yes	NPW10.55550	Dicamba	GC, Extraction, ECD, Capillary	SW-846 8151A	LA
Certified	Yes	NPW10.55650	Dichlorprop	GC, Extraction, ECD, Capillary	SW-846 8151A	LA
Certified	Yes	NPW10.55700	Dinoseb	GC, Extraction, ECD, Capillary	SW-846 8151A	LA
Certified	Yes	NPW10.55800	MCPA	GC, Extraction, ECD, Capillary	SW-846 8151A	LA
Certified	Yes	NPW10.55850	MCPP	GC, Extraction, ECD, Capillary	SW-846 8151A	LA
Certified	Yes	NPW10.55950	Pentachlorophenol	GC, Extraction, ECD, Capillary	SW-846 8151A	LA



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Category: NPW10--Organic Parameters - Chromatography

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW10.56050	T (2,4,5-)	GC, Extraction, ECD, Capillary	SW-846 8151A	LA
Certified	Yes	NPW10.56100	TP (2,4,5-) (Silvex)	GC, Extraction, ECD, Capillary	SW-846 8151A	LA
Certified	Yes	NPW10.56150	Acenaphthene	Extraction, HPLC	SW-846 8310	LA
Certified	Yes	NPW10.56200	Acenaphthylene	Extraction, HPLC	SW-846 8310	LA
Certified	Yes	NPW10.56250	Anthracene	Extraction, HPLC	SW-846 8310	LA
Certified	Yes	NPW10.56300	Benzo(a)anthracene	Extraction, HPLC	SW-846 8310	LA
Certified	Yes	NPW10.56350	Benzo(e)pyrene	Extraction, HPLC	SW-846 8310	LA
Certified	Yes	NPW10.56400	Benzo(b)fluoranthene	Extraction, HPLC	SW-846 8310	LA
Certified	Yes	NPW10.56450	Benzo(ghi)perylene	Extraction, HPLC	SW-846 8310	LA
Certified	Yes	NPW10.56500	Benzo(k)fluoranthene	Extraction, HPLC	SW-846 8310	LA
Certified	Yes	NPW10.56550	Chrysene	Extraction, HPLC	SW-846 8310	LA
Certified	Yes	NPW10.56600	Dibenzo(a,h)anthracene	Extraction, HPLC	SW-846 8310	LA
Certified	Yes	NPW10.56650	Fluoranthene	Extraction, HPLC	SW-846 8310	LA
Certified	Yes	NPW10.56700	Fluorene	Extraction, HPLC	SW-846 8310	LA
Certified	Yes	NPW10.56750	Indeno(1,2,3-cd)pyrene	Extraction, HPLC	SW-846 8310	LA
Certified	Yes	NPW10.56800	Naphthalene	Extraction, HPLC	SW-846 8310	LA
Certified	Yes	NPW10.56850	Phenanthrene	Extraction, HPLC	SW-846 8310	LA
Certified	Yes	NPW10.56900	Pyrene	Extraction, HPLC	SW-846 8310	LA
Certified	Yes	NPW10.57650	D (2,4-)	HPLC, UV Detector	SW-846 8321B	LA
Certified	Yes	NPW10.57800	Dalapon	HPLC, UV Detector	SW-846 8321B	LA
Certified	Yes	NPW10.57850	DB (2,4-)	HPLC, UV Detector	SW-846 8321B	LA
Certified	Yes	NPW10.57900	Dicamba	HPLC, UV Detector	SW-846 8321B	LA
Certified	Yes	NPW10.57950	Dichlorprop	HPLC, UV Detector	SW-846 8321B	LA
Certified	Yes	NPW10.58000	Dinoseb	HPLC, UV Detector	SW-846 8321B	LA
Certified	Yes	NPW10.58050	MCPA	HPLC, UV Detector	SW-846 8321B	LA
Certified	Yes	NPW10.58100	MCPPP	HPLC, UV Detector	SW-846 8321B	LA
Certified	Yes	NPW10.58150	T (2,4,5-)	HPLC, UV Detector	SW-846 8321B	LA

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12065 LEBANON RD
MT. JULIET TN 37122



Category: NPW10--Organic Parameters - Chromatography

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW10.58300	TP (2,4,5-) (Silvex)	HPLC, UV Detector	SW-846 8321B	LA
Certified	Yes	NPW10.58650	Dinitrobenzene (1,3-)	HPLC, UV Detector	SW-846 8330B	LA
Certified	Yes	NPW10.58700	Dinitrotoluene (2,4-)	HPLC, UV Detector	SW-846 8330B	LA
Certified	Yes	NPW10.58750	Dinitrotoluene (2,6-)	HPLC, UV Detector	SW-846 8330B	LA
Certified	Yes	NPW10.58800	Dinitrotoluene (2-amino-4,6-)	HPLC, UV Detector	SW-846 8330B	LA
Certified	Yes	NPW10.58850	Dinitrotoluene (4-amino-2,6-)	HPLC, UV Detector	SW-846 8330B	LA
Certified	Yes	NPW10.58900	HMX	HPLC, UV Detector	SW-846 8330B	LA
Certified	Yes	NPW10.58950	Nitrobenzene	HPLC, UV Detector	SW-846 8330B	LA
Certified	Yes	NPW10.59000	Nitroglycerine	HPLC, UV Detector	SW-846 8330B	LA
Certified	Yes	NPW10.59050	Nitrotoluene (2-)	HPLC, UV Detector	SW-846 8330B	LA
Certified	Yes	NPW10.59100	Nitrotoluene (3-)	HPLC, UV Detector	SW-846 8330B	LA
Certified	Yes	NPW10.59150	Nitrotoluene (4-)	HPLC, UV Detector	SW-846 8330B	LA
Certified	Yes	NPW10.59200	PETN	HPLC, UV Detector	SW-846 8330B	LA
Certified	Yes	NPW10.59250	RDX	HPLC, UV Detector	SW-846 8330B	LA
Certified	Yes	NPW10.59300	Tetryl	HPLC, UV Detector	SW-846 8330B	LA
Certified	Yes	NPW10.59350	Trinitrobenzene (1,3,5-)	HPLC, UV Detector	SW-846 8330B	LA
Certified	Yes	NPW10.59400	Trinitrotoluene (2,4,6-)	HPLC, UV Detector	SW-846 8330B	LA
Certified	Yes	NPW10.62250	Demeton (o-)	Extraction, GC, NPD or FPD	User Defined EPA 1657	LA

Category: NPW11--Organic Parameters - Chromatography/MS

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW11.38400	Acetone	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.38450	Acetonitrile	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.38500	Acrolein	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.38550	Acrylonitrile	GC/MS, P & T, Capillary Column	EPA 624.1	LA

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Category: NPW11--Organic Parameters - Chromatography/MS

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW11.38600	Allyl chloride	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.38750	Benzene	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.38800	Bromobenzene	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.38850	Bromochloromethane	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.38900	Bromodichloromethane	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.38950	Bromoethane	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.39000	Bromoform	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.39050	Bromomethane	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.39100	Butadiene (2-chloro-1,3-)	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.39150	Butanol (1-)	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.39200	Butanone (2-) (Methyl ethyl ketone)	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.39400	Butylbenzene (n-)	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.39450	Carbon disulfide	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.39500	Carbon tetrachloride	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.39550	Chlorobenzene	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.39600	Chloroethane	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.39650	Chloroethyl vinyl ether (2-)	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.39700	Chloroform	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.39750	Chloromethane	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.39800	Chlorotoluene (2-)	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.39850	Chlorotoluene (4-)	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.39950	Cyclohexane	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.40000	Cyclohexanone	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.40050	Dibromo-3-chloropropane (1,2-)	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.40100	Dibromochloromethane	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.40105	Dibromoethane (1,2-) (EDB)	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.40200	Dibromomethane	GC/MS, P & T, Capillary Column	EPA 624.1	LA

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Category: NPW11--Organic Parameters - Chromatography/MS

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW11.40250	Dichloro-2-butene (cis-1,4-)	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.40300	Dichloro-2-butene (trans-1,4-)	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.40350	Dichlorobenzene (1,2-)	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.40400	Dichlorobenzene (1,3-)	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.40450	Dichlorobenzene (1,4-)	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.40500	Dichlorodifluoromethane	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.40550	Dichloroethane (1,1-)	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.40600	Dichloroethane (1,2-)	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.40650	Dichloroethane (1,1-)	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.40700	Dichloroethane (cis-1,2-)	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.40750	Dichloroethane (trans-1,2-)	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.40800	Dichloropropane (1,2-)	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.40850	Dichloropropane (1,3-)	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.40900	Dichloropropane (2,2-)	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.40950	Dichloropropane (1,1-)	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.41000	Dichloropropene (cis-1,3-)	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.41050	Dichloropropene (trans-1,3-)	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.41100	Diethyl ether (Ethyl ether)	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.41150	Diisopropyl Ether (DIPE)	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.41200	Dioxane (1,4-)	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.41250	Ethanol	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.41350	Ethyl acetate	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.41400	Ethyl methacrylate	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.41450	Ethylbenzene	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.41500	Ethyl-tert-butyl Ether (ETBE)	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.41600	Hexachlorobutadiene (1,3-)	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.41650	Hexane (n-)	GC/MS, P & T, Capillary Column	EPA 624.1	LA

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New Jersey Department of Environmental Protection
Environmental Laboratory Certification Program

Annual Certified Parameter List and Current Status

Effective as of 07/01/2023 until 6/30/2024

Laboratory Name: PACE ANALYTICAL NATIONAL CENTER Laboratory Number: TN002 Activity ID: NLC 230001
12065 LEBANON RD
MT. JULIET TN 37122



Category: NPW11--Organic Parameters - Chromatography/MS

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW11.41700	Hexanone (2-)	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.41750	Iso-butyl alcohol	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.41850	Isopropanol	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.42000	Isopropylbenzene	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.42050	Isopropyltoluene (4-)	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.42100	Methacrylonitrile	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.42150	Methyl acetate	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.42300	Methyl iodide	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.42350	Methyl isobutyl ketone (MIBK)	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.42400	Methyl methacrylate	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.42450	Methyl tert-butyl ether	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.42500	Methylcyclohexane	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.42550	Methylene chloride (Dichloromethane)	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.42600	Naphthalene	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.42650	Nitropropane (2-)	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.42750	Pentachloroethane	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.42800	Propionitrile	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.42900	Propylbenzene (n-)	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.42950	Sec-butylbenzene	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.43000	Styrene	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.43050	tert-Amylmethyl ether (TAME)	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.43150	Tert-butyl alcohol	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.43200	Tert-butylbenzene	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.43250	Tetrachloroethane (1,1,1,2-)	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.43300	Tetrachloroethane (1,1,2,2-)	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.43350	Tetrachloroethene	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.43400	Tetrahydrofuran	GC/MS, P & T, Capillary Column	EPA 624.1	LA

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Category: NPW11--Organic Parameters - Chromatography/MS

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW11.43450	Toluene	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.43500	Trichloro (1,1,2-) trifluoroethane (1,2,2-)	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.43550	Trichlorobenzene (1,2,3-)	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.43600	Trichlorobenzene (1,2,4-)	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.43650	Trichloroethane (1,1,1-)	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.43700	Trichloroethane (1,1,2-)	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.43750	Trichloroethene	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.43800	Trichlorofluoromethane	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.43850	Trichloropropane (1,2,3-)	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.43900	Trimethylbenzene (1,2,3-)	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.43950	Trimethylbenzene (1,2,4-)	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.44000	Trimethylbenzene (1,3,5-)	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.44050	Vinyl acetate	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.44100	Vinyl chloride	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.44200	Xylene (m-)	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.44250	Xylene (o-)	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.44300	Xylene (p-)	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.44350	Xylenes (total)	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.44400	Acenaphthene	GC/MS, P & T, Capillary Column	EPA 624.1	LA
Certified	Yes	NPW11.44450	Acenaphthylene	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.44500	Acetophenone	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.44650	Alpha - terpineol	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.44800	Aniline	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.44850	Anthracene	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.45200	Benzidine	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.45250	Benzo(a)anthracene	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.45300	Benzo(a)pyrene	Extract, GC/MS	EPA 625.1	LA

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Category: NPW11--Organic Parameters - Chromatography/MS

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW11.45350	Benzo(b)fluoranthene	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.45400	Benzo(g,h,i)perylene	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.45500	Benzo(k)fluoranthene	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.45550	Benzoic acid	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.45650	Biphenylamine (4-)	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.45700	Bis (2-chloroethoxy) methane	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.45750	Bis (2-chloroethyl) ether	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.45800	Bis(2-chloroisopropyl)ether 2,2'-oxybis(1-chloropropane)	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.45850	Bis (2-ethylhexyl) phthalate	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.46000	Bromophenyl-phenyl ether (4-)	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.46050	Butylbenzylphthalate	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.46250	Carbazole	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.46400	Chloroaniline (4-)	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.46500	Chloronaphthalene (1-)	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.46550	Chloronaphthalene (2-)	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.46650	Chlorophenol (2-)	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.46700	Chlorophenyl-phenyl ether (4-)	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.46900	Chrysene	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.47050	Decane (n-)	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.47500	Dibenzo(a,h)anthracene	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.47650	Dibenzofuran	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.47700	Dichloroaniline (2,3-)	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.47750	Dichlorobenzidine (3,3'-)	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.47800	Dichlorophenol (2,4-)	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.47950	Diethyl phthalate	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.48100	Dimethyl phthalate	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.48250	Dimethylphenol (2,4-)	Extract, GC/MS	EPA 625.1	LA

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Category: NPW11--Organic Parameters - Chromatography/MS

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW11.48300	Di-n-butyl phthalate	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.48400	Dinitrophenol (2,4-)	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.48450	Dinitrophenol (2-methyl-4,6-)	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.48500	Dinitrotoluene (2,4-)	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.48550	Dinitrotoluene (2,6-)	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.48600	Di-n-octyl phthalate	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.49050	Famphur	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.49250	Fluoranthene	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.49300	Fluorene	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.49350	Hexachlorobenzene	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.49400	Hexachlorobutadiene (1,3-)	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.49450	Hexachlorocyclopentadiene	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.49500	Hexachloroethane	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.49550	Hexachlorophene	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.49600	Hexachloropropene	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.49700	Indeno(1,2,3-cd)pyrene	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.49800	Isophorone	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.50000	Kepone	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.50350	Methyl phenol (4-chloro-3-)	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.50450	Methylnaphthalene (2-)	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.50550	Methylphenol (2-)	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.50600	Methylphenol (3-)	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.50650	Methylphenol (4-)	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.50950	Naphthalene	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.51000	Naphthoquinone (1,4-)	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.51050	Naphthylamine (1-)	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.51100	Naphthylamine (2-)	Extract, GC/MS	EPA 625.1	LA

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Category: NPW11--Organic Parameters - Chromatography/MS

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW11.51150	Nitroaniline (2-)	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.51200	Nitroaniline (3-)	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.51250	Nitroaniline (4-)	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.51300	Nitrobenzene	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.51350	Nitrophenol (2-)	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.51400	Nitrophenol (4-)	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.51450	N-Nitrosodiethylamine	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.51500	N-Nitrosodimethylamine	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.51530	N-Nitroso-di-n-butylamine	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.51550	N-Nitroso-di-n-propylamine	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.51600	N-Nitrosodiphenylamine / Diphenylamine	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.51800	N-Nitrosopyrrolidine	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.51900	Octadecane (n-)	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.52400	Pentachlorobenzene	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.52450	Pentachloroethane	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.52550	Pentachlorophenol	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.52700	Phenanthrene	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.52750	Phenol	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.53400	Pyrene	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.53450	Pyridine	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.55100	Tetrachlorobenzene (1,2,4,5-)	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.55150	Tetrachlorophenol (2,3,4,6-)	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.55400	Trichlorobenzene (1,2,4-)	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.55500	Trichlorophenol (2,4,5-)	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.55550	Trichlorophenol (2,4,6-)	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.56800	Acetone	Extract, GC/MS	EPA 625.1	LA
Certified	Yes	NPW11.56850	Acrolein	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA

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Category: NPW11--Organic Parameters - Chromatography/MS

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW11.56900	Acrylonitrile	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.56950	Allyl chloride	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.57100	Benzene	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.57150	Bromobenzene	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.57200	Bromochloromethane	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.57250	Bromodichloromethane	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.57300	Bromoethane	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.57350	Bromoform	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.57400	Bromomethane	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.57450	Butadiene (2-chloro-1,3-)	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.57550	Butylbenzene (n-)	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.57600	Carbon tetrachloride	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.57650	Chlorobenzene	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.57700	Chloroethane	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.57750	Chloroform	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.57800	Chloromethane	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.57850	Chlorotoluene (2-)	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.57900	Chlorotoluene (4-)	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.57950	Cyclohexanone	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.58000	Dibromo-3-chloropropane (1,2-)	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.58050	Dibromochloromethane	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.58100	Dibromomethane	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.58150	Dichloro-2-butene (cis-1,4-)	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.58200	Dichloro-2-butene (trans-1,4-)	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.58250	Dichlorobenzene (1,2-)	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.58300	Dichlorobenzene (1,3-)	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.58350	Dichlorobenzene (1,4-)	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA

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12065 LEBANON RD
MT. JULIET TN 37122



Category: NPW11--Organic Parameters - Chromatography/MS

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW11.58400	Dichlorodifluoromethane	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.58450	Dichloroethane (1,1-)	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.58500	Dichloroethane (1,2-)	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.58550	Dichloroethene (1,1-)	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.58600	Dichloroethene (trans-1,2-)	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.58650	Dichloropropane (1,2-)	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.58700	Dichloropropane (1,3-)	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.58750	Dichloropropane (2,2-)	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.58800	Dichloropropene (1,1-)	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.58850	Dichloropropene (cis-1,3-)	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.58900	Dichloropropene (trans-1,3-)	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.58950	Diethyl ether (Ethyl ether)	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.59000	Diisopropyl Ether (DIPE)	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.59050	Dioxane (1,4-)	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.59100	Ethanol	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.59150	Ethyl acetate	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.59200	Ethyl methacrylate	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.59250	Ethylbenzene	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.59300	Ethyl-tert-butyl Ether (ETBE)	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.59400	Hexachlorobutadiene (1,3-)	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.59450	Hexane (n-)	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.59500	Iso-butyl alcohol	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.59600	Isopropanol	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.59750	Isopropylbenzene	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.59800	Isopropyltoluene (4-)	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.59850	Methacrylonitrile	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.60000	Methyl methacrylate	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA

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New Jersey Department of Environment Protection
Environmental Laboratory Certification Program

Annual Certified Parameter List and Current Status

Effective as of 07/01/2023 until 6/30/2024

Laboratory Name: PACE ANALYTICAL NATIONAL CENTER Laboratory Number: TN002 Activity ID: NLC 230001
12065 LEBANON RD
MT. JULIET TN 37122

Category: NPW11--Organic Parameters - Chromatography/MS



Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW11.60050	Methyl tert-butyl ether	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.60100	Methylene chloride (Dichloromethane)	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.60150	Pentachloroethane	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.60200	Propionitrile	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.60250	Propylbenzene (n-)	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.60300	Sec-butylbenzene	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.60350	tert-Amylmethyl ether (TAME)	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.60400	Tert-butyl alcohol	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.60450	Tert-butylbenzene	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.60500	Tetrachloroethane (1,1,1,2-)	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.60550	Tetrachloroethane (1,1,2,2-)	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.60600	Tetrachloroethene	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.60650	Tetrahydrofuran	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.60700	Toluene	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.60750	Trichlorobenzene (1,2,3-)	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.60800	Trichloroethane (1,1,1-)	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.60850	Trichloroethane (1,1,2-)	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.60900	Trichloroethene	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.60950	Trichlorofluoromethane	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.61000	Trichloropropane (1,2,3-)	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Applied	No	NPW11.61050	Trimethylbenzene (1,2,3-)	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.61100	Trimethylbenzene (1,2,4-)	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.61150	Trimethylbenzene (1,3,5-)	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.61200	Vinyl chloride	GC/MS, P & T, Capillary Column	SM 6200 B-11	LA
Certified	Yes	NPW11.68750	Acetone	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.68800	Acetonitrile	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.68850	Acrolein	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA

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Environmental Laboratory Certification Program

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Laboratory Name: PACE ANALYTICAL NATIONAL CENTER Laboratory Number: TN002 Activity ID: NLC 230001
12065 LEBANON RD
MT. JULIET TN 37122

Category: NPW11--Organic Parameters - Chromatography/MS



Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW11.68900	Acrylonitrile	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.68950	Allyl chloride	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.69050	Amyl alcohol (t-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.69100	Benzene	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.69200	Bromobenzene	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.69250	Bromochloromethane	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.69300	Bromodichloromethane	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.69350	Bromoethane	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.69400	Bromoform	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.69450	Bromomethane	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.69500	Butadiene (2-chloro-1,3-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.69550	Butanol (1-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.69600	Butanol (3,3-Dimethyl-1-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.69650	Butanone (2-) (Methyl ethyl ketone)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.69700	Butyl formate (t-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.69850	Butylbenzene (n-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.69900	Carbon disulfide	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.69950	Carbon tetrachloride	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.70000	Chlorobenzene	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.70050	Chloroethane	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.70100	Chloroethyl vinyl ether (2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.70150	Chloroform	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.70200	Chloromethane	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.70250	Chlorotoluene (2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.70300	Chlorotoluene (4-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.70400	Cyclohexane	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.70450	Cyclohexanone	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA

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12065 LEBANON RD
MT. JULIET TN 37122

Category: NPW11--Organic Parameters - Chromatography/MS



Status	Eligible to Report NU Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW11.70500	Dibromo-3-chloropropane (1,2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.70550	Dibromochloromethane	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.70600	Dibromoethane (1,2-) (EDB)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.70650	Dibromomethane	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.70700	Dichloro-2-butene (cis-1,4-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.70750	Dichloro-2-butene (trans-1,4-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.70800	Dichlorobenzene (1,2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.70850	Dichlorobenzene (1,3-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.70900	Dichlorobenzene (1,4-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.70950	Dichlorodifluoromethane	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.71000	Dichloroethane (1,1-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.71050	Dichloroethane (1,2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.71100	Dichloroethene (1,1-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.71150	Dichloroethene (cis-1,2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.71200	Dichloroethene (trans-1,2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.71250	Dichloropropane (1,2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.71300	Dichloropropane (1,3-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.71350	Dichloropropane (2,2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.71400	Dichloropropane (1,1-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.71450	Dichloropropene (cis-1,3-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.71500	Dichloropropene (trans-1,3-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.71550	Diethyl ether (Ethyl ether)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.71600	Diisopropyl Ether (DIPE)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.71650	Dioxane (1,4-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.71700	Ethanol	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.71800	Ethyl acetate	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.71850	Ethyl methacrylate	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA

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12065 LEBANON RD
MT. JULIET TN 37122

Category: NPW11--Organic Parameters - Chromatography/MS

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW11.71900	Ethylbenzene	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.71950	Ethyl-tert-butyl Ether (ETBE)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.72050	Hexachlorobutadiene (1,3-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.72100	Hexachloroethane	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.72150	Hexane (n-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.72200	Hexanone (2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.72250	Iso-butyl alcohol	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.72300	Isopropanol	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.72400	Isopropylbenzene	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.72450	Isopropyltoluene (4-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.72500	Methacrylonitrile	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.72550	Methyl acetate	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.72600	Methyl acrylate	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.72650	Methyl iodide	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.72700	Methyl methacrylate	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.72750	Methyl tert-butyl ether	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.72800	Methylcyclohexane	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.72850	Methylene chloride (Dichloromethane)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Applied	No	NPW11.72900	Methylnaphthalene (1-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.72950	Methylnaphthalene (2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.73000	Naphthalene	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.73100	Nitropropane (2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.73200	Octane (n-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.73250	Pentachloroethane	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.73300	Pentanol (2-Methyl-2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.73350	Pentanone (4-methyl-2-) (MIBK)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.73400	Propionitrile	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA



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MT. JULIET TN 37122

Laboratory Number: TN002 Activity ID: NLC 230001

Category: NPW11--Organic Parameters - Chromatography/MS



Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW11.73450	Propylbenzene (n-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.73500	Sec-butylbenzene	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.73550	Styrene	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.73600	tert-Amyl methyl ether (TAME)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.73700	Tert-butyl alcohol	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.73750	Tert-butylbenzene	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.73800	Tetrachloroethane (1,1,1,2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.73850	Tetrachloroethane (1,1,2,2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.73900	Tetrachloroethene	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.73950	Tetrahydrofuran	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.74000	Toluene	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.74100	Trichloro (1,1,2-) trifluoroethane (1,2,2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.74150	Trichlorobenzene (1,2,3-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.74200	Trichlorobenzene (1,2,4-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.74250	Trichloroethane (1,1,1-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.74300	Trichloroethane (1,1,2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.74350	Trichloroethene	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.74400	Trichlorofluoromethane	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.74450	Trichloropropane (1,2,3-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.74500	Trimethylbenzene (1,2,3-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.74550	Trimethylbenzene (1,2,4-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.74600	Trimethylbenzene (1,3,5-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.74650	Trimethylpentane (2,2,4-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.74700	Vinyl acetate	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.74750	Vinyl chloride	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.74800	Xylene (m-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.74850	Xylene (o-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA

KEY: AE = Air and Emissions, BT = Biological Tissues, DW = Drinking Water, NPW = Non-Potable Water, SCM = Solid and Chemical Materials

New Jersey Department of Environment Protection
Environmental Laboratory Certification Program

Annual Certified Parameter List and Current Status

Effective as of 07/01/2023 until 6/30/2024

Laboratory Name: PACE ANALYTICAL NATIONAL CENTER Laboratory Number: TN002 Activity ID: NLC 230001
12065 LEBANON RD
MT. JULIET TN 37122

Category: NPW11--Organic Parameters - Chromatography/MS

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW11.74900	Xylene (p-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.74950	Xylenes (total)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	NPW11.75150	Acenaphthene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.75200	Acenaphthylene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.75250	Acetophenone	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.75300	Acetylaminofluorene (2-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.75500	Aminobiphenyl (4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.75600	Aniline	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.75650	Anthracene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.75700	Aramite	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.75750	Atrazine	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.75800	Benzal chloride	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.75850	Benzaldehyde	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.75950	Benzidine	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.76000	Benzo(a)anthracene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.76050	Benzo(a)pyrene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.76100	Benzo(b)fluoranthene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.76150	Benzo(ghi)perylene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.76200	Benzo(j)fluoranthene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.76250	Benzo(k)fluoranthene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.76300	Benzoic acid	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.76350	Benzo(a)chloride	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.76400	Benzyl alcohol	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.76450	Benzyl chloride	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.76550	Biphenyl (1,1'-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.76600	Bis (2-chloroethoxy) methane	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.76650	Bis (2-chloroethyl) ether	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA



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Environmental Laboratory Certification Program

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Laboratory Name: PACE ANALYTICAL NATIONAL CENTER Laboratory Number: TN002 Activity ID: NLC 230001
12065 LEBANON RD
MT. JULIET TN 37122



Category: NPW11--Organic Parameters - Chromatography/MS

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW11.76700	Bis(2-chloroisopropyl)ether(2,2'-oxybis(1-chloropropane))	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.76750	Bis (2-ethylhexyl) phthalate	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.76800	Bromophenyl-phenyl ether (4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.76850	Butylbenzylphthalate	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.76900	Caprolactam	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.76950	Carbazole	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.77150	Chloroaniline (4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.77200	Chlorobenzilate	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.77250	Chloronaphthalene (1-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.77300	Chloronaphthalene (2-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.77350	Chlorophenol (2-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.77400	Chlorophenyl-phenyl ether (4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.77450	Chrysene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.77650	Decane (n-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.77850	Dibenz(a,h)acridine	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.77900	Dibenz(a,j)acridine	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.77950	Dibenzo(a,e)pyrene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.78000	Dibenzo(a,h)anthracene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.78050	Dibenzo(a,h)pyrene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.78100	Dibenzo(a,i)pyrene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.78150	Dibenzo(c,g)carbazole (7H-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.78200	Dibenzofuran	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.78250	Dichlorobenzene (1,2-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.78300	Dichlorobenzene (1,3-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.78350	Dichlorobenzene (1,4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.78400	Dichlorobenzidine (3,3'-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.78450	Dichlorophenol (2,4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA

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New Jersey Department of Environment Protection
Environmental Laboratory Certification Program

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Laboratory Name: PACE ANALYTICAL NATIONAL CENTER Laboratory Number: TN002 Activity ID: NLC 230001
12065 LEBANON RD
MT. JULIET TN 37122



Category: NPW1--Organic Parameters - Chromatography/MS

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW11.78500	Dichlorophenol (2,6-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.78600	Diethyl phthalate	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.78650	Dimethoate	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.78700	Dimethyl benzidine (3,3-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.78750	Dimethyl phthalate	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.79050	Dimethylbenz(a)anthracene (7,12-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.79100	Dimethylphenol (2,4)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.79150	Di-n-butyl phthalate	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.79200	Dinitrobenzene (1,3-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.79300	Dinitrophenol (2,4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.79350	Dinitrophenol (2-methyl-4,6-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.79400	Dinitrotoluene (2,4)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.79450	Dinitrotoluene (2,6-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.79500	Di-n-octyl phthalate	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.79550	Dimoseb	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.79700	Disulfoton	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.80100	Famphur	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.80150	Fluoranthene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.80200	Fluorene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.80350	Hexachlorobenzene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.80400	Hexachlorobutadiene (1,3-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.80450	Hexachlorocyclopentadiene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.80500	Hexachloroethane	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.80550	Hexachlorophene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.80600	Hexachloropropene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.80700	Indene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.80750	Indeno(1,2,3-cd)pyrene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA

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Environmental Laboratory Certification Program

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Laboratory Name: PACE ANALYTICAL NATIONAL CENTER Laboratory Number: TN002 Activity ID: NLC 230001
12065 LEBANON RD
MT. JULIET TN 37122

Category: NPW11--Organic Parameters - Chromatography/MS

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW11.80800	Isodrin	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.80850	Isophorone	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.80950	Isosafrole (trans-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.81000	Kepone	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.81100	Methanesulfonate (Ethyl-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.81150	Methanesulfonate (Methyl-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.81200	Methapyrene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.81300	Methyl phenol (4-chloro-3-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.81350	Methylcholanthrene (3-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.81400	Methyl/naphthalene (1-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.81450	Methyl/naphthalene (2-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.81500	Methylphenol (2-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.81600	Methylphenol (4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.81650	Naphthalene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.81700	Naphthoquinone (1,4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.81750	Naphthylamine (1-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.81800	Naphthylamine (2-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.81850	Nitroaniline (2-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.81900	Nitroaniline (3-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.81950	Nitroaniline (4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.82000	Nitrobenzene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.82050	Nitrodiphenylamine (2-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.82100	Nitrophenol (2-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.82150	Nitrophenol (4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.82200	N-Nitrosodiethylamine	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.82250	N-Nitrosodimethylamine	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.82300	N-Nitroso-di-n-butylamine	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA



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12065 LEBANON RD
MT. JULIET TN 37122

Category: NPW11--Organic Parameters - Chromatography/MS



Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW11.82350	N-Nitroso-di-n-propylamine	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.82400	N-Nitrosodiphenylamine / Diphenylamine	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.82450	N-Nitrosomethylethylamine	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.82500	N-Nitrosomorpholine	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.82550	N-Nitrosopiperidine	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.82600	N-Nitrosopyrrolidine	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.82650	Octadecane (n-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.82700	Parathion	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.82750	Parathion methyl	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.83150	Pentachlorobenzene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.83200	Pentachloroethane	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.83250	Pentachloronitrobenzene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.83300	Pentachlorophenol	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.83350	Phenacetin	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.83400	Phenanthrene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.83450	Phenol	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.83500	Phenylenediamine (1,4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.83550	Phenylethylamine (alpha, alpha-Dimethyl)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.83600	Phorate	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.83650	Phosphorothioate (O,O,O-triethyl)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Applied	No	NPW11.83700	Phosphorothioate (diethyl-O-2-pyrazinyl) [Thionazin]	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.83750	Picoline (2-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.83800	Pronamide	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.83850	Pyrene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.83900	Pyridine	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.83950	Quinoline	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.84000	Quinoline -1-Oxide (4-Nitro)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA

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Category: NPW11--Organic Parameters - Chromatography/MS

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW11.84100	Safrole	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.84150	Sulfotepp	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.84250	Tetrachlorobenzene (1,2,3,4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.84300	Tetrachlorobenzene (1,2,3,5-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.84350	Tetrachlorobenzene (1,2,4,5-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.84400	Tetrachlorophenol (2,3,4,6-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.84450	Toluidine (2-)-(2-Methylaniline)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.84550	Toluidine (5-nitro-2-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.84650	Trichlorobenzene (1,2,4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.84700	Trichlorophenol (2,4,5-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.84750	Trichlorophenol (2,4,6-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.84850	Trinitrobenzene (1,3,5-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.84900	Acenaphthene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.84950	Acenaphthylene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.85000	Anthracene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.85050	Benzo(a)anthracene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.85100	Benzo(a)pyrene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.85150	Benzo(b)fluoranthene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.85200	Benzo(ghi)perylene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.85250	Benzo(k)fluoranthene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.85300	Chrysene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.85350	Dibenzo(a,h)anthracene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.85550	Dioxane (1,4-)	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.85600	Fluoranthene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.85650	Fluorene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.85700	Hexachlorobenzene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.85850	Indeno(1,2,3-cd)pyrene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	LA

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New Jersey Department of Environment Protection
Environmental Laboratory Certification Program

Annual Certified Parameter List and Current Status

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Category: NPW11--Organic Parameters - Chromatography/MS

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW11.85950	Methyl/naphthalene (1-)	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.86000	Methyl/naphthalene (2-)	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.86050	Naphthalene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.86100	N-Nitrosodimethylamine	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.86200	Phenanthrene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.86250	Pyrene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	NPW11.89350	Acetonitrile	GC/MS, P & T, Capillary Column	User Defined SM 6200B-11	LA
Certified	Yes	NPW11.89700	Butanone (2-) (Methyl ethyl ketone)	GC/MS, P & T, Capillary Column	User Defined SM 6200B-11	LA
Certified	Yes	NPW11.90600	Carbon disulfide	GC/MS, P & T, Capillary Column	User Defined SM 6200B-11	LA
Certified	Yes	NPW11.90750	Chloroethyl vinyl ether (2-)	GC/MS, P & T, Capillary Column	User Defined SM 6200B-11	LA
Certified	Yes	NPW11.91000	Dibromoethane (1,2-) (EDB)	GC/MS, P & T, Capillary Column	User Defined SM 6200B-11	LA
Certified	Yes	NPW11.91350	Dichloroethene (cis-1,2-)	GC/MS, P & T, Capillary Column	User Defined SM 6200B-11	LA
Certified	Yes	NPW11.91850	Gasoline range organic	GC/MS, P & T, Capillary Column	User Defined SM 6200B-11	LA
Certified	Yes	NPW11.91950	Hexanone (2-)	GC/MS, P & T, Capillary Column	User Defined SM 6200B-11	LA
Certified	Yes	NPW11.92100	Methyl iodide	GC/MS, P & T, Capillary Column	User Defined SM 6200B-11	LA
Certified	Yes	NPW11.92200	Naphthalene	GC/MS, P & T, Capillary Column	User Defined SM 6200B-11	LA
Certified	Yes	NPW11.92350	Styrene	GC/MS, P & T, Capillary Column	User Defined SM 6200B-11	LA
Certified	Yes	NPW11.92600	Trichloro (1,1,2-) trifluoroethane (1,2,2-)	GC/MS, P & T, Capillary Column	User Defined SM 6200B-11	LA
Certified	Yes	NPW11.92700	Trichlorobenzene (1,2,4-)	GC/MS, P & T, Capillary Column	User Defined SM 6200B-11	LA
Certified	Yes	NPW11.93100	Vinyl acetate	GC/MS, P & T, Capillary Column	User Defined SM 6200B-11	LA
Certified	Yes	NPW11.93200	Xylene (o-)	GC/MS, P & T, Capillary Column	User Defined SM 6200B-11	LA
Certified	Yes	NPW11.93250	Xylenes (total)	GC/MS, P & T, Capillary Column	User Defined SM 6200B-11	LA

Category: NPW12--Toxicity Testing

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
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Category: NPW12--Toxicity Testing

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW12.00200	Toxicity - acute, FW organism	Ceriodaphnia Mortality	EPA 2002.0	LA
Certified	Yes	NPW12.00400	Toxicity - acute, FW organism	Fathead Minnow (FHM) Mortality	EPA 2000.0	LA
Certified	Yes	NPW12.00900	Toxicity - chronic, FW organism	FHM Larval Survival & Growth	EPA 1000.0	LA
Certified	Yes	NPW12.01000	Toxicity - chronic, FW organism	Ceriodaphnia Survival & Reproduction	EPA 1002.0	LA

Category: NPW13--Radiochem. - Radioactivity/Radionuclides

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW13.00001	Alpha Emitting Radium Isotopes	Precipitation	SW-846 9315	LA
Certified	Yes	NPW13.00300	Cesium 134/137	Gamma Spectrometry	EPA 901.1	LA
Certified	Yes	NPW13.00550	Cobalt 60	Gamma Spectrometry	EPA 901.1	LA
Certified	Yes	NPW13.00700	Gross - alpha	Proportional or Scintillation	EPA 900.0	LA
Certified	Yes	NPW13.01000	Gross - beta	Proportional Counter	EPA 900.0	LA
Certified	Yes	NPW13.01300	Photon Emitters	Gamma Spectrometry	EPA 901.1	LA
Certified	Yes	NPW13.01400	Plutonium	Radiochemical / Alpha Counting	EPA 907.0	LA
Certified	Yes	NPW13.01450	Radium - 226	Proportional	EPA 903.0	LA
Certified	Yes	NPW13.01700	Radium - 226	Radiochemical	SM 7500-Ra B	LA
Certified	Yes	NPW13.01950	Radium - 228	Co-Precipitation / Beta Counting	EPA 904.0	LA
Certified	Yes	NPW13.02300	Radium - total	Precipitation	SM 7500-Ra B	LA
Certified	Yes	NPW13.02500	Strontium - 89, 90	Precipitation / Beta Counting	EPA 905.0	LA
Certified	Yes	NPW13.02550	Strontium - 90	Precipitation / Beta Counting	EPA 905.0	LA
Certified	Yes	NPW13.02700	Thorium	Alpha Spectrometry	Other LANL ER-200	LA
Certified	Yes	NPW13.02750	Tritium	Distillation/Liquid Scintillation	EPA 906.0	LA
Certified	Yes	NPW13.02800	Uranium	Isotopic Analysis / Alpha Spectrometry	ASTM D3972	LA
Certified	Yes	NPW13.02850	Uranium	Laser Phosphorimetry	ASTM D5174	LA
Certified	Yes	NPW13.03300	Zinc 65	Gamma Spectrometry	EPA 901.1	LA

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Category: NPW14--Radon in Non-Potable Water

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW14.00050	Radon	Liquid Scintillation	SM 7500-Rn	LA

Category: SCM01--Microbiology

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	SCM01.00150	Fecal coliform	Multiple Tube A-1	EPA 1681-14	LA

Category: SCM02--Characteristics of Hazardous Waste

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	SCM02.00450	Free liquid	Flow-Through Paint Filter, Observation	SW-846 9095B	LA
Applied	No	SCM02.00500	Heat of combustion (BTU)	Bomb Calorimeter	ASTM D240	LA
Certified	Yes	SCM02.00560	Flash Point	Pensky-Martens	SW-846 1010B	LA
Certified	Yes	SCM02.00600	Ignitability	Pensky Martens	User Defined ASTM D93	LA
Certified	Yes	SCM02.00800	pH - soil and waste	Mix with Water or Calcium Chlorides	SW-846 9045D	LA

Category: SCM03--Inorganic Parameters and Preparation

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	SCM03.00200	Ammonia	Distillation, Semi-automated	EPA 350.1	LA

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Category: SCM03--Inorganic Parameters and Preparation

Status	Eligible to Report Data	Report NJ Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	SCM03.00500	Bromide	Ion Chromatography	EPA 300.0	LA
Certified	Yes	SCM03.00550	Bromide	Ion Chromatography	SW-846 9056A	LA
Certified	Yes	SCM03.00850	Chloride	Ion Chromatography	EPA 300.0	LA
Certified	Yes	SCM03.00900	Chloride	Ion Chromatography	SW-846 9056A	LA
Certified	Yes	SCM03.01150	Cyanide	Distillation	SW-846 9010C	LA
Certified	Yes	SCM03.01200	Cyanide	Extraction, Oils and Solids	SW-846 9013A	LA
Certified	Yes	SCM03.01250	Cyanide	Colorimetric, Automated	SW-846 9012B	LA
Certified	Yes	SCM03.01550	Cyanide - amenable to Cl2	Distillation	SW-846 9010C	LA
Certified	Yes	SCM03.01750	Extractable organic halides (EOX)	Extraction	SW-846 9023	LA
Certified	Yes	SCM03.01900	Fluoride	Ion Chromatography	EPA 300.0	LA
Certified	Yes	SCM03.01950	Fluoride	Ion Chromatography	SW-846 9056A	LA
Certified	Yes	SCM03.02650	Nitrate	Ion Chromatography	EPA 300.0	LA
Certified	Yes	SCM03.02700	Nitrate	Ion Chromatography	SW-846 9056A	LA
Certified	Yes	SCM03.03050	Nitrite	Ion Chromatography	SW-846 9056A	LA
Certified	Yes	SCM03.03100	Nitrite	Ion Chromatography	EPA 300.0	LA
Certified	Yes	SCM03.03200	Oil & grease - sludge-hem	Extraction & Gravimetric	SW-846 9056A	LA
Certified	Yes	SCM03.03250	Oil & grease - sludge-hem-npm	Extraction & Gravimetric	SW-846 9071B	LA
Certified	Yes	SCM03.03550	Orthophosphate	Ion Chromatography	SW-846 9071B	LA
Certified	Yes	SCM03.04150	Sulfate	Ion Chromatography	SW-846 9056A	LA
Certified	Yes	SCM03.04200	Sulfate	Ion Chromatography	EPA 300.0	LA
Certified	Yes	SCM03.04450	Sulfides, acid sol. & insol.	Redox Titration	SW-846 9056A	LA
Certified	Yes	SCM03.04500	Sulfides, acid sol. & insol.	Redox Titration	SW-846 9030B	LA
Certified	Yes	SCM03.04600	Total organic carbon (TOC)	Gravimetric	SW-846 9034	LA
Certified	Yes	SCM03.04750	Total organic carbon (TOC)	Spectroscopy	Other USDA-LOI (Loss on Ignition)	LA
Certified	Yes	SCM03.04800	Total organic carbon (TOC)	Spectroscopy	ASTM F1647-02A	LA
Certified	Yes	SCM03.05000	Total, fixed, and volatile solids (SQAR)	Gravimetric, 500 Degrees C	Other Walkley Black	LA
Certified	Yes	SCM03.05000	Total, fixed, and volatile solids (SQAR)	Gravimetric, 500 Degrees C	SM 2540 G SM 18th Ed.	LA



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Category: SCM05--Metals - SCM Preparation Methods

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	SCM05.00001	Metals	Acid Digestion, Oil	SW-846 3031	LA
Certified	Yes	SCM05.00050	Metals	Acid Digestion, Soil Sediment & Sludge	SW-846 3050B	LA
Certified	Yes	SCM05.00100	Metals	Chromium VI Digestion	SW-846 3060A	LA
Certified	Yes	SCM05.00300	Metals	Microwave Acid Digest - Siliceous & Org Matrix	SW-846 3052	LA
Certified	Yes	SCM05.00350	Metals	Microwave Acid Digest: Soil Sediment & Sludge	SW-846 3051A	LA
Certified	Yes	SCM05.00550	Metals	Synthetic PPT Leachate Procedure	SW-846 1312	LA
Certified	Yes	SCM05.00600	Metals	TCLP, Toxicity Procedure, Shaker	SW-846 1311	LA

Category: SCM06--Metals

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	SCM06.02600	Chromium (VI)	Colorimetric	SW-846 7196A	LA
Certified	Yes	SCM06.02750	Chromium (VI)	Ion Chromatography	SW-846 7199	LA
Certified	Yes	SCM06.02800	Mercury - solid waste	AA, Manual Cold Vapor	SW-846 7471B	LA

Category: SCM07--Metals - ICP, ICP/MS and DCP

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	SCM07.00001	Aluminum	ICP	SW-846 6010D	LA
Certified	Yes	SCM07.00050	Antimony	ICP	SW-846 6010D	LA
Certified	Yes	SCM07.00100	Arsenic	ICP	SW-846 6010D	LA
Certified	Yes	SCM07.00150	Barium	ICP	SW-846 6010D	LA
Certified	Yes	SCM07.00200	Beryllium	ICP	SW-846 6010D	LA

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Category: SCM07--Metals - ICP, ICP/MS and DCP



Status	Eligible to Report Data	Report NU	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes		SCM07.00250	Boron	ICP	SW-846 6010D	LA
Certified	Yes		SCM07.00300	Cadmium	ICP	SW-846 6010D	LA
Certified	Yes		SCM07.00350	Calcium	ICP	SW-846 6010D	LA
Certified	Yes		SCM07.00400	Chromium	ICP	SW-846 6010D	LA
Certified	Yes		SCM07.00450	Cobalt	ICP	SW-846 6010D	LA
Certified	Yes		SCM07.00500	Copper	ICP	SW-846 6010D	LA
Certified	Yes		SCM07.00550	Iron	ICP	SW-846 6010D	LA
Certified	Yes		SCM07.00600	Lead	ICP	SW-846 6010D	LA
Certified	Yes		SCM07.00650	Lithium	ICP	SW-846 6010D	LA
Certified	Yes		SCM07.00700	Magnesium	ICP	SW-846 6010D	LA
Certified	Yes		SCM07.00750	Manganese	ICP	SW-846 6010D	LA
Certified	Yes		SCM07.00800	Molybdenum	ICP	SW-846 6010D	LA
Certified	Yes		SCM07.00850	Nickel	ICP	SW-846 6010D	LA
Certified	Yes		SCM07.00950	Potassium	ICP	SW-846 6010D	LA
Certified	Yes		SCM07.01000	Selenium	ICP	SW-846 6010D	LA
Certified	Yes		SCM07.01050	Silver	ICP	SW-846 6010D	LA
Certified	Yes		SCM07.01100	Sodium	ICP	SW-846 6010D	LA
Certified	Yes		SCM07.01150	Strontium	ICP	SW-846 6010D	LA
Certified	Yes		SCM07.01200	Thallium	ICP	SW-846 6010D	LA
Certified	Yes		SCM07.01300	Tin	ICP	SW-846 6010D	LA
Certified	Yes		SCM07.01350	Titanium	ICP	SW-846 6010D	LA
Certified	Yes		SCM07.01450	Vanadium	ICP	SW-846 6010D	LA
Certified	Yes		SCM07.01500	Zinc	ICP	SW-846 6010D	LA
Certified	Yes		SCM07.01600	Aluminum	ICP/MS	SW-846 6020B	LA
Certified	Yes		SCM07.01650	Antimony	ICP/MS	SW-846 6020B	LA
Certified	Yes		SCM07.01700	Arsenic	ICP/MS	SW-846 6020B	LA
Certified	Yes		SCM07.01750	Barium	ICP/MS	SW-846 6020B	LA

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Category: SCM07--Metals - ICP, ICP/MS and DCP

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	SCM07.01800	Beryllium	ICP/MS	SW-846 6020B	LA
Certified	Yes	SCM07.01850	Boron	ICP/MS	SW-846 6020B	LA
Certified	Yes	SCM07.01900	Cadmium	ICP/MS	SW-846 6020B	LA
Certified	Yes	SCM07.01950	Calcium	ICP/MS	SW-846 6020B	LA
Certified	Yes	SCM07.02000	Chromium	ICP/MS	SW-846 6020B	LA
Certified	Yes	SCM07.02050	Cobalt	ICP/MS	SW-846 6020B	LA
Certified	Yes	SCM07.02100	Copper	ICP/MS	SW-846 6020B	LA
Certified	Yes	SCM07.02150	Iron	ICP/MS	SW-846 6020B	LA
Certified	Yes	SCM07.02200	Lead	ICP/MS	SW-846 6020B	LA
Certified	Yes	SCM07.02250	Magnesium	ICP/MS	SW-846 6020B	LA
Certified	Yes	SCM07.02300	Manganese	ICP/MS	SW-846 6020B	LA
Certified	Yes	SCM07.02350	Molybdenum	ICP/MS	SW-846 6020B	LA
Certified	Yes	SCM07.02400	Nickel	ICP/MS	SW-846 6020B	LA
Certified	Yes	SCM07.02450	Potassium	ICP/MS	SW-846 6020B	LA
Certified	Yes	SCM07.02500	Selenium	ICP/MS	SW-846 6020B	LA
Certified	Yes	SCM07.02600	Silver	ICP/MS	SW-846 6020B	LA
Certified	Yes	SCM07.02650	Sodium	ICP/MS	SW-846 6020B	LA
Certified	Yes	SCM07.02700	Strontium	ICP/MS	SW-846 6020B	LA
Certified	Yes	SCM07.02750	Thallium	ICP/MS	SW-846 6020B	LA
Certified	Yes	SCM07.02800	Thorium	ICP/MS	SW-846 6020B	LA
Certified	Yes	SCM07.02850	Tin	ICP/MS	SW-846 6020B	LA
Certified	Yes	SCM07.02900	Titanium	ICP/MS	SW-846 6020B	LA
Certified	Yes	SCM07.03000	Uranium	ICP/MS	SW-846 6020B	LA
Certified	Yes	SCM07.03050	Vanadium	ICP/MS	SW-846 6020B	LA
Certified	Yes	SCM07.03100	Zinc	ICP/MS	SW-846 6020B	LA

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Category: SCM08--Organics - SCM Prep. / Screening Methods

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	SCM08.00400	Organics	Synthetic PPT Leachate Procedure	SW-846 1312	LA
Certified	Yes	SCM08.00500	Organics	Waste Dilution	SW-846 3580A	LA
Certified	Yes	SCM08.00700	Semivolatile organics	TCLP, Toxicity Procedure, Shaker	SW-846 1311	LA
Certified	Yes	SCM08.00750	Semivolatile organics	Soxhlet Extraction	SW-846 3540C	LA
Certified	Yes	SCM08.00900	Semivolatile organics	Microwave Extraction	SW-846 3546	LA
Certified	Yes	SCM08.00950	Semivolatile organics	Ultrasonic Extraction	SW-846 3550C	LA
Certified	Yes	SCM08.01300	Semivolatile organics	Petroleum Waste, Cleanup Alumina	SW-846 3611B	LA
Certified	Yes	SCM08.01350	Semivolatile organics	Cleanup-Florisil	SW-846 3620C	LA
Certified	Yes	SCM08.01400	Semivolatile organics	Cleanup-Silica Gel	SW-846 3630C	LA
Certified	Yes	SCM08.01600	Semivolatile organics	Cleanup-Sulfuric Acid/KMnO4	SW-846 3665A	LA
Certified	Yes	SCM08.01850	Volatile organics	TCLP, Toxicity Procedure, ZHE	SW-846 1311	LA
Certified	Yes	SCM08.02050	Volatile organics - high conc.	Methanol Extract, Closed System P & T	SW-846 5035A	LA
Certified	Yes	SCM08.02100	Volatile organics - low conc.	Closed System Purge & Trap	SW-846 5035A	LA

Category: SCM09--Organic Parameters - Chromatography

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	SCM09.00001	Petroleum Organics	Extraction, GC, FID	Other Florida - PRO	LA
Certified	Yes	SCM09.00150	Extractable Petroleum Hydrocarbons	Extraction, GC, FID	Other NJDEP EPH 10/08, Rev. 3	LA
Certified	Yes	SCM09.00450	Diesel range organic	Extraction, GC, FID	SW-846 8015D	LA
Certified	Yes	SCM09.00500	Gasoline range organic	GC P&T, FID	SW-846 8015D	LA
Certified	Yes	SCM09.01200	Ethyl alcohol	GC, Direct Injection or P & T, FID	SW-846 8015D	LA
Certified	Yes	SCM09.01400	Methyl alcohol (Methanol)	GC, Direct Injection or P & T, FID	SW-846 8015D	LA
Certified	Yes	SCM09.01950	Ethylene glycol	GC, Direct Injection, FID	SW-846 8015D	LA
Certified	Yes	SCM09.02050	Propylene glycol	GC, Direct Injection, FID	SW-846 8015D	LA

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Category: SCM09--Organic Parameters - Chromatography

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	SCM09.02200	Benzene	GC, Direct Injection or P & T, PID-HECD	SW-846 8021B	LA
Certified	Yes	SCM09.03350	Ethylbenzene	GC, Direct Injection or P & T, PID-HECD	SW-846 8021B	LA
Certified	Yes	SCM09.03400	Methyl tert-butyl ether	GC, Direct Injection or P & T, PID-HECD	SW-846 8021B	LA
Certified	Yes	SCM09.03700	Toluene	GC, Direct Injection or P & T, PID-HECD	SW-846 8021B	LA
Certified	Yes	SCM09.04000	Xylene (m-)	GC, Direct Injection or P & T, PID-HECD	SW-846 8021B	LA
Certified	Yes	SCM09.04050	Xylene (o-)	GC, Direct Injection or P & T, PID-HECD	SW-846 8021B	LA
Certified	Yes	SCM09.04100	Xylene (p-)	GC, Direct Injection or P & T, PID-HECD	SW-846 8021B	LA
Certified	Yes	SCM09.04150	Xylenes (total)	GC, Direct Injection or P & T, PID-HECD	SW-846 8021B	LA
Certified	Yes	SCM09.05650	Aldrin	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	LA
Certified	Yes	SCM09.05700	Alpha BHC	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	LA
Certified	Yes	SCM09.05800	Beta BHC	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	LA
Certified	Yes	SCM09.05850	Chlordane (alpha) (cis-)	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	LA
Certified	Yes	SCM09.05900	Chlordane (gamma) (trans-)	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	LA
Certified	Yes	SCM09.05950	Chlordane (technical)	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	LA
Certified	Yes	SCM09.06300	DDD (4,4'-)	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	LA
Certified	Yes	SCM09.06350	DDE (4,4'-)	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	LA
Certified	Yes	SCM09.06400	DDT (4,4'-)	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	LA
Certified	Yes	SCM09.06450	Delta BHC	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	LA
Certified	Yes	SCM09.06500	Dieldrin	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	LA
Certified	Yes	SCM09.06550	Endosulfan I	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	LA
Certified	Yes	SCM09.06600	Endosulfan II	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	LA
Certified	Yes	SCM09.06650	Endosulfan sulfate	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	LA
Certified	Yes	SCM09.06700	Endrin	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	LA
Certified	Yes	SCM09.06750	Endrin aldehyde	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	LA
Certified	Yes	SCM09.06800	Endrin ketone	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	LA
Certified	Yes	SCM09.06900	Hepachlor	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	LA
Certified	Yes	SCM09.06950	Hepachlor epoxide	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	LA

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Annual Certified Parameter List and Current Status

Effective as of 07/01/2023 until 6/30/2024

Laboratory Name: PACE ANALYTICAL NATIONAL CENTER Laboratory Number: TN002 Activity ID: NLC 230001
12065 LEBANON RD
MT. JULIET TN 37122



Category: SCM09--Organic Parameters - Chromatography

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	SCM09.07000	Hexachlorobenzene	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	LA
Certified	Yes	SCM09.07100	Lindane (gamma BHC)	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	LA
Certified	Yes	SCM09.07150	Methoxychlor	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	LA
Certified	Yes	SCM09.07500	Toxaphene	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	LA
Certified	Yes	SCM09.08700	PCB 1016	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	LA
Certified	Yes	SCM09.08750	PCB 1221	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	LA
Certified	Yes	SCM09.08800	PCB 1232	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	LA
Certified	Yes	SCM09.08850	PCB 1242	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	LA
Certified	Yes	SCM09.08900	PCB 1248	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	LA
Certified	Yes	SCM09.08950	PCB 1254	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	LA
Certified	Yes	SCM09.09000	PCB 1260	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	LA
Certified	Yes	SCM09.13850	Azinphos methyl	GC, Extract or Dir Inj, NPD or FPD,Cap	SW-846 8141B	LA
Certified	Yes	SCM09.13900	Bolstar	GC, Extract or Dir Inj, NPD or FPD,Cap	SW-846 8141B	LA
Certified	Yes	SCM09.13950	Chlorpyrifos	GC, Extract or Dir Inj, NPD or FPD,Cap	SW-846 8141B	LA
Certified	Yes	SCM09.14000	Coumaphos	GC, Extract or Dir Inj, NPD or FPD,Cap	SW-846 8141B	LA
Certified	Yes	SCM09.14050	Demeton (o-)	GC, Extract or Dir Inj, NPD or FPD,Cap	SW-846 8141B	LA
Certified	Yes	SCM09.14100	Demeton (s-)	GC, Extract or Dir Inj, NPD or FPD,Cap	SW-846 8141B	LA
Certified	Yes	SCM09.14150	Diazinon	GC, Extract or Dir Inj, NPD or FPD,Cap	SW-846 8141B	LA
Certified	Yes	SCM09.14200	Dichlorvos	GC, Extract or Dir Inj, NPD or FPD,Cap	SW-846 8141B	LA
Certified	Yes	SCM09.14250	Dimethoate	GC, Extract or Dir Inj, NPD or FPD,Cap	SW-846 8141B	LA
Certified	Yes	SCM09.14300	Disulfoton	GC, Extract or Dir Inj, NPD or FPD,Cap	SW-846 8141B	LA
Certified	Yes	SCM09.14350	EPN	GC, Extract or Dir Inj, NPD or FPD,Cap	SW-846 8141B	LA
Certified	Yes	SCM09.14400	Ethoprop	GC, Extract or Dir Inj, NPD or FPD,Cap	SW-846 8141B	LA
Certified	Yes	SCM09.14450	Fensulfothion	GC, Extract or Dir Inj, NPD or FPD,Cap	SW-846 8141B	LA
Certified	Yes	SCM09.14500	Fenthion	GC, Extract or Dir Inj, NPD or FPD,Cap	SW-846 8141B	LA
Certified	Yes	SCM09.14550	Malathion	GC, Extract or Dir Inj, NPD or FPD,Cap	SW-846 8141B	LA
Certified	Yes	SCM09.14600	Merphos	GC, Extract or Dir Inj, NPD or FPD,Cap	SW-846 8141B	LA

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New Jersey Department of Environment Protection
Environmental Laboratory Certification Program

Annual Certified Parameter List and Current Status

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Laboratory Name: PACE ANALYTICAL NATIONAL CENTER Laboratory Number: TN002 Activity ID: NLC 230001
12065 LEBANON RD
MT. JULIET TN 37122



Category: SCM09--Organic Parameters - Chromatography

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	SCM09.14650	Mevinphos	GC, Extract or Dir Inj, NPD or FPD,Cap	SW-846 8141B	LA
Certified	Yes	SCM09.14700	Naled	GC, Extract or Dir Inj, NPD or FPD,Cap	SW-846 8141B	LA
Certified	Yes	SCM09.14750	Parathion	GC, Extract or Dir Inj, NPD or FPD,Cap	SW-846 8141B	LA
Certified	Yes	SCM09.14800	Parathion methyl	GC, Extract or Dir Inj, NPD or FPD,Cap	SW-846 8141B	LA
Certified	Yes	SCM09.14850	Phorate	GC, Extract or Dir Inj, NPD or FPD,Cap	SW-846 8141B	LA
Certified	Yes	SCM09.14900	Ronnel	GC, Extract or Dir Inj, NPD or FPD,Cap	SW-846 8141B	LA
Certified	Yes	SCM09.15000	Stirofos	GC, Extract or Dir Inj, NPD or FPD,Cap	SW-846 8141B	LA
Certified	Yes	SCM09.15050	Sulfotepp	GC, Extract or Dir Inj, NPD or FPD,Cap	SW-846 8141B	LA
Certified	Yes	SCM09.15100	TEPP	GC, Extract or Dir Inj, NPD or FPD,Cap	SW-846 8141B	LA
Certified	Yes	SCM09.15150	Tokuthion [Protothios]	GC, Extract or Dir Inj, NPD or FPD,Cap	SW-846 8141B	LA
Certified	Yes	SCM09.15200	Trichloronate	GC, Extract or Dir Inj, NPD or FPD,Cap	SW-846 8141B	LA
Certified	Yes	SCM09.15400	D (2,4-)	GC, Extraction, ECD, Capillary	SW-846 8151A	LA
Certified	Yes	SCM09.15450	Dalapon	GC, Extraction, ECD, Capillary	SW-846 8151A	LA
Certified	Yes	SCM09.15500	DB (2,4-)	GC, Extraction, ECD, Capillary	SW-846 8151A	LA
Certified	Yes	SCM09.16000	Dicamba	GC, Extraction, ECD, Capillary	SW-846 8151A	LA
Certified	Yes	SCM09.16100	Dichlorprop	GC, Extraction, ECD, Capillary	SW-846 8151A	LA
Certified	Yes	SCM09.16150	Dinoseb	GC, Extraction, ECD, Capillary	SW-846 8151A	LA
Certified	Yes	SCM09.16250	MCPA	GC, Extraction, ECD, Capillary	SW-846 8151A	LA
Certified	Yes	SCM09.16300	MCPP	GC, Extraction, ECD, Capillary	SW-846 8151A	LA
Certified	Yes	SCM09.16400	Pentachlorophenol	GC, Extraction, ECD, Capillary	SW-846 8151A	LA
Certified	Yes	SCM09.16500	T (2,4,5-)	GC, Extraction, ECD, Capillary	SW-846 8151A	LA
Certified	Yes	SCM09.16550	TP (2,4,5-) (Silvex)	GC, Extraction, ECD, Capillary	SW-846 8151A	LA
Certified	Yes	SCM09.16600	Acenaphthene	GC, Extraction, ECD, Capillary	SW-846 8151A	LA
Certified	Yes	SCM09.16650	Acenaphthylene	GC, Extraction, ECD, Capillary	SW-846 8310	LA
Certified	Yes	SCM09.16700	Anthracene	GC, Extraction, ECD, Capillary	SW-846 8310	LA
Certified	Yes	SCM09.16750	Benzo(a)anthracene	GC, Extraction, HPLC	SW-846 8310	LA
Certified	Yes	SCM09.16800	Benzo(a)pyrene	GC, Extraction, HPLC	SW-846 8310	LA

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12065 LEBANON RD
MT. JULIET TN 37122

Category: SCM09--Organic Parameters - Chromatography



Status	Eligible to Report NJ Date	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	SCM09.16850	Benzo(b)fluoranthene	Extraction, HPLC	SW-846 8310	LA
Certified	Yes	SCM09.16900	Benzo(ghi)perylene	Extraction, HPLC	SW-846 8310	LA
Certified	Yes	SCM09.16950	Benzo(k)fluoranthene	Extraction, HPLC	SW-846 8310	LA
Certified	Yes	SCM09.17000	Chrysene	Extraction, HPLC	SW-846 8310	LA
Certified	Yes	SCM09.17050	Dibenzo(a,h)anthracene	Extraction, HPLC	SW-846 8310	LA
Certified	Yes	SCM09.17100	Fluoranthene	Extraction, HPLC	SW-846 8310	LA
Certified	Yes	SCM09.17150	Fluorene	Extraction, HPLC	SW-846 8310	LA
Certified	Yes	SCM09.17200	Indeno(1,2,3-cd)pyrene	Extraction, HPLC	SW-846 8310	LA
Certified	Yes	SCM09.17250	Naphthalene	Extraction, HPLC	SW-846 8310	LA
Certified	Yes	SCM09.17300	Phenanthrene	Extraction, HPLC	SW-846 8310	LA
Certified	Yes	SCM09.17350	Pyrene	Extraction, HPLC	SW-846 8310	LA
Certified	Yes	SCM09.18100	D (2,4-)	Extraction, HPLC	SW-846 8310	LA
Certified	Yes	SCM09.18250	Dalapon	HPLC, UV Detector	SW-846 8321B	LA
Certified	Yes	SCM09.18300	DB (2,4-)	HPLC, UV Detector	SW-846 8321B	LA
Certified	Yes	SCM09.18350	Dicamba	HPLC, UV Detector	SW-846 8321B	LA
Certified	Yes	SCM09.18400	Dichlorprop	HPLC, UV Detector	SW-846 8321B	LA
Certified	Yes	SCM09.18450	Dinoseb	HPLC, UV Detector	SW-846 8321B	LA
Certified	Yes	SCM09.18500	MCPA	HPLC, UV Detector	SW-846 8321B	LA
Certified	Yes	SCM09.18550	MCPP	HPLC, UV Detector	SW-846 8321B	LA
Certified	Yes	SCM09.18600	T (2,4,5-)	HPLC, UV Detector	SW-846 8321B	LA
Certified	Yes	SCM09.18750	TP (2,4,5-) (Silvex)	HPLC, UV Detector	SW-846 8321B	LA
Certified	Yes	SCM09.18800	Dinitrobenzene (1,3-)	HPLC, UV Detector	SW-846 8330B	LA
Certified	Yes	SCM09.18850	Dinitrotoluene (2,4-)	HPLC, UV Detector	SW-846 8330B	LA
Certified	Yes	SCM09.18900	Dinitrotoluene (2,6-)	HPLC, UV Detector	SW-846 8330B	LA
Certified	Yes	SCM09.18950	Dinitrotoluene (2-amino-4,5-)	HPLC, UV Detector	SW-846 8330B	LA
Certified	Yes	SCM09.19000	Dinitrotoluene (4-amino-2,6-)	HPLC, UV Detector	SW-846 8330B	LA
Certified	Yes	SCM09.19050	HMX	HPLC, UV Detector	SW-846 8330B	LA

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Laboratory Name: PACE ANALYTICAL NATIONAL CENTER Laboratory Number: TN002 Activity ID: NLC 230001
12065 LEBANON RD
MT. JULIET TN 37122



Category: SCM09--Organic Parameters - Chromatography

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	SCM09.19100	Nitrobenzene	HPLC, UV Detector	SW-846 8330B	LA
Certified	Yes	SCM09.19150	Nitroglycerine	HPLC, UV Detector	SW-846 8330B	LA
Certified	Yes	SCM09.19200	Nitrotoluene (2-)	HPLC, UV Detector	SW-846 8330B	LA
Certified	Yes	SCM09.19250	Nitrotoluene (3-)	HPLC, UV Detector	SW-846 8330B	LA
Certified	Yes	SCM09.19300	Nitrotoluene (4-)	HPLC, UV Detector	SW-846 8330B	LA
Certified	Yes	SCM09.19350	PETN	HPLC, UV Detector	SW-846 8330B	LA
Certified	Yes	SCM09.19400	RDX	HPLC, UV Detector	SW-846 8330B	LA
Certified	Yes	SCM09.19450	Tetryl	HPLC, UV Detector	SW-846 8330B	LA
Certified	Yes	SCM09.19500	Trinitrobenzene (1,3,5-)	HPLC, UV Detector	SW-846 8330B	LA
Certified	Yes	SCM09.19550	Trinitrotoluene (2,4,6-)	HPLC, UV Detector	SW-846 8330B	LA

Category: SCM10--Organic Parameters - Chromatography/MS

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	SCM10.22900	Acetone	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.22950	Acetonitrile	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.23000	Acrolein	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.23050	Acrylonitrile	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.23100	Allyl chloride	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.23130	Amyl alcohol (1-)	GC/MS, P & T, or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.23200	Benzene	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.23300	Bromobenzene	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.23350	Bromochloromethane	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.23400	Bromodichloromethane	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.23450	Bromoethane	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.23500	Bromoforn	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA

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Environmental Laboratory Certification Program

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Laboratory Name: PACE ANALYTICAL NATIONAL CENTER Laboratory Number: TN002 Activity ID: NLC 230001
12065 LEBANON RD
MT. JULIET TN 37122



Category: SCM10--Organic Parameters - Chromatography/MS

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	SCM10.23550	Bromomethane	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.23600	Butadiene (2-chloro-1,3-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.23610	Butanol (1-)	GC/MS, P & T, or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.23630	Butanol (3,3-Dimethyl-1-)	GC/MS, P & T, or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.23650	Butanone (2-) (Methyl ethyl ketone)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.23680	Butyl formate (1-)	GC/MS, P & T, or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.23800	Butylbenzene (n-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.23850	Carbon disulfide	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.23900	Carbon tetrachloride	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.23950	Chlorobenzene	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.24000	Chloroethane	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.24100	Chloroform	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.24150	Chloromethane	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.24200	Chlorotoluene (2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.24250	Chlorotoluene (4-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.24330	Cyclohexane	GC/MS, P & T, or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.24350	Cyclohexanone	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.24400	Dibromo-3-chloropropane (1,2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.24450	Dibromochloromethane	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.24500	Dibromoethane (1,2-) (EDB)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.24550	Dibromomethane	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.24600	Dichloro-2-butene (cis-1,4)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.24650	Dichloro-2-butene (trans-1,4)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.24700	Dichlorobenzene (1,2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.24750	Dichlorobenzene (1,3-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.24800	Dichlorobenzene (1,4-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.24850	Dichlorodifluoromethane	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA

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Laboratory Name: PACE ANALYTICAL NATIONAL CENTER Laboratory Number: TN002 Activity ID: NLC 230001
12065 LEBANON RD
MT. JULIET TN 37122

Category: SCM10--Organic Parameters - Chromatography/MS



Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	SCM10.24900	Dichloroethane (1,1-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.24950	Dichloroethane (1,2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.25000	Dichloroethene (1,1-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.25050	Dichloroethene (cis-1,2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.25100	Dichloroethene (trans-1,2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.25150	Dichloropropene (1,2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.25200	Dichloropropene (1,3-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.25250	Dichloropropene (2,2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.25300	Dichloropropene (1,1-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.25350	Dichloropropene (cis-1,3-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.25400	Dichloropropene (trans-1,3-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.25450	Diethyl ether (Ethyl ether)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.25500	Diisopropyl Ether (DIPE)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.25550	Dioxane (1,4-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.25600	Ethanol	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.25650	Ethyl acetate	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.25700	Ethyl methacrylate	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.25750	Ethylbenzene	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.25800	Ethyl-tert-butyl Ether (ETBE)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.25850	Hexachlorobutadiene (1,3-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.25900	Hexachloroethane	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.25930	Hexane (n-)	GC/MS, P & T, or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.25950	Hexanone (2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.26000	Iso-butyl alcohol	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.26050	Isopropanol	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.26150	Isopropylbenzene	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.26200	Isopropyltoluene (4-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA

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New Jersey Department of Environment Protection
Environmental Laboratory Certification Program

Annual Certified Parameter List and Current Status

Effective as of 07/01/2023 until 6/30/2024

Laboratory Name: PACE ANALYTICAL NATIONAL CENTER Laboratory Number: TN002 Activity ID: NLC 230001
12065 LEBANON RD
MT. JULIET TN 37122

Category: SCM10--Organic Parameters - Chromatography/MS



Status	Eligible to Report Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	SCM10.26250	Methacrylonitrile	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.26280	Methyl acetate	GC/MS, P & T, or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.26300	Methyl acrylate	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.26330	Methylcyclohexane	GC/MS, P & T, or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.26350	Methyl iodide	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.26400	Methyl methacrylate	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.26450	Methyl tert-butyl ether	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.26500	Methylene chloride (Dichloromethane)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.26550	Methylnaphthalene (1-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.26600	Methylnaphthalene (2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.26650	Naphthalene	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.26730	Nitropropane (2-)	GC/MS, P & T, or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.26780	Octane (n)	GC/MS, P & T, or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.26800	Pentachloroethane	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.26830	Pentanol (2-Methyl-2-)	GC/MS, P & T, or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.26850	Pentanone (4-methyl-2-) (MIBK)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.26900	Propionitrile	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.26950	Propylbenzene (n-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.27000	Sec-butylbenzene	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.27050	Styrene	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.27100	tert-Amyl(methyl) ether (TAME)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.27200	Tert-butyl alcohol	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.27250	Tert-butylbenzene	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.27300	Tetrachloroethane (1,1,1,2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.27350	Tetrachloroethane (1,1,2,2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.27400	Tetrachloroethene	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.27450	Tetrahydrofuran	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA

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Annual Certified Parameter List and Current Status

Effective as of 07/01/2023 until 6/30/2024

Laboratory Name: PACE ANALYTICAL NATIONAL CENTER Laboratory Number: TN002 Activity ID: NLC 230001

12065 LEBANON RD
MT. JULIET TN 37122



Category: SCM10--Organic Parameters - Chromatography/MS

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	SCM10.27500	Toluene	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.27600	Trichloro (1,1,2-)trifluoroethane (1,2,2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.27650	Trichlorobenzene (1,2,3-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.27700	Trichlorobenzene (1,2,4-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.27750	Trichloroethane (1,1,1-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.27800	Trichloroethane (1,1,2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.27850	Trichloroethene	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.27900	Trichlorofluoromethane	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.27950	Trichloropropane (1,2,3-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.27980	Trimethylbenzene (1,2,3-)	GC/MS, P & T, or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.28000	Trimethylbenzene (1,2,4-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.28050	Trimethylbenzene (1,3,5-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.28100	Trimethylpentane (2,2,4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.28150	Vinyl acetate	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.28200	Vinyl chloride	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.28250	Xylene (m-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.28300	Xylene (o-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.28350	Xylene (p-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.28400	Xylenes (total)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	LA
Certified	Yes	SCM10.28900	Acenaphthene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.28950	Acenaphthylene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.29000	Acetophenone	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.29050	Acetylaminofluorene (2-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.29300	Aminobiphenyl (4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.29350	Aniline	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.29450	Anthracene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.29500	Aranite	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA

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New Jersey Department of Environment Protection
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Laboratory Name: PACE ANALYTICAL NATIONAL CENTER Laboratory Number: TN002 Activity ID: NLC 230001
12065 LEBANON RD
MT. JULIET TN 37122

Category: SCM10--Organic Parameters - Chromatography/MS



Status	Eligible to Report Data	Report NU	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes		SCM10.29550	Atrazine	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes		SCM10.29600	Benzal chloride	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes		SCM10.29650	Benzaldehyde	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes		SCM10.29700	Benzenethiol	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes		SCM10.29750	Benzidine	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes		SCM10.29800	Benzo(a)anthracene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes		SCM10.29850	Benzo(a)pyrene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes		SCM10.29900	Benzo(b)fluoranthene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes		SCM10.29950	Benzo(ghi)perylene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes		SCM10.30000	Benzo(j)fluoranthene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes		SCM10.30050	Benzo(k)fluoranthene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes		SCM10.30100	Benzoic acid	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes		SCM10.30150	Benzotrifluoride	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes		SCM10.30200	Benzyl alcohol	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes		SCM10.30250	Benzyl chloride	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes		SCM10.30350	Biphenyl (1,1'-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes		SCM10.30400	Bis (2-chloroethoxy) methane	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes		SCM10.30450	Bis (2-chloroethyl) ether	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes		SCM10.30500	Bis(2-chloroisopropyl) ether[2,2'-oxybis(1-chloropropane)]	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes		SCM10.30550	Bis (2-ethylhexyl) phthalate	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes		SCM10.30600	Bromophenyl-phenyl ether (4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes		SCM10.30650	Butylbenzylphthalate	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes		SCM10.30700	Caprolactam	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes		SCM10.30750	Carbazole	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes		SCM10.30950	Chloroaniline (4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes		SCM10.31000	Chlorobenzilate	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes		SCM10.31050	Chloronaphthalene (1-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA

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Annual Certified Parameter List and Current Status

Effective as of 07/01/2023 until 6/30/2024

Laboratory Name: PAGE ANALYTICAL NATIONAL CENTER Laboratory Number: TN002 Activity ID: NLC 230001
12065 LEBANON RD
MT. JULIET TN 37122



Category: SCM10--Organic Parameters - Chromatography/MS

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	SCM10.31100	Chloronaphthalene (2-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.31150	Chlorophenol (2-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.31200	Chlorophenyl-phenyl ether (4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.31250	Chrysene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.31450	Decane (n-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.31600	Diallate (trans)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.31650	Dibenz(a,h)acridine	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.31700	Dibenz(a,i)acridine	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.31750	Dibenzo(a,e)pyrene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.31800	Dibenzo(a,h)anthracene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.31850	Dibenzo(a,h)pyrene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.31900	Dibenzo(a,j)pyrene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.31950	Dibenzo(c,g)carbazole (7H-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.32000	Dibenzofuran	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.32050	Dichlorobenzene (1,2-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.32100	Dichlorobenzene (1,3-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.32150	Dichlorobenzene (1,4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.32200	Dichlorobenzidine (3,3'-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.32250	Dichlorophenol (2,4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.32300	Dichlorophenol (2,6-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.32400	Diethyl phthalate	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.32450	Dimethoate	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.32500	Dimethyl benzidine (3,3-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.32550	Dimethyl phthalate	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.32850	Dimethylbenz(a)anthracene (7,12-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.32900	Dimethylphenol (2,4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.32950	Di-n-butyl phthalate	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA

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Laboratory Name: PACE ANALYTICAL NATIONAL CENTER Laboratory Number: TN002 Activity ID: NLC 230001
12065 LEBANON RD
MT. JULIET TN 37122



Category: SCM10--Organic Parameters - Chromatography/MS

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	SCM10.33000	Dinitrobenzene (1,3-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.33100	Dinitrophenol (2,4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.33150	Dinitrophenol (2-methyl-4,6-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.33200	Dinitrotoluene (2,4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.33250	Dinitrotoluene (2,6-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.33300	Di-n-octyl phthalate	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.33350	Dinoseb	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Applied	No	SCM10.33450	Diphenylhydrazine / Azobenzene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.33500	Disulfoton	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.33900	Famphur	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.33950	Fluoranthene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.34000	Fluorene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.34150	Hexachlorobenzene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.34200	Hexachlorobutadiene (1,3-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.34250	Hexachlorocyclopentadiene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.34300	Hexachloroethane	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.34350	Hexachlorophene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.34400	Hexachloropropene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.34500	Indene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.34550	Indeno(1,2,3-cd)pyrene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.34600	Isodrin	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.34650	Isophorone	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.34650	Isosafrole (cis-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.34700	Isosafrole (cis-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.34800	Kepone	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.34900	Methanesulfonate (Ethyl-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.34950	Methanesulfonate (Methyl-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.35000	Methapyrene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA

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MT. JULIET TN 37122

Category: SCM10--Organic Parameters - Chromatography/MS

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	SCM10.35100	Methyl phenol (4-chloro-3-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.35150	Methylcholanthrene (3-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.35200	Methylnaphthalene (1-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.35250	Methylnaphthalene (2-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.35300	Methylphenol (2-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.35400	Methylphenol (4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.35450	Naphthalene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.35500	Napthoquinone (1, 4)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.35550	Napththylamine (1-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.35600	Napththylamine (2-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.35650	Nitroaniline (2-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.35700	Nitroaniline (3-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.35750	Nitroaniline (4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.35800	Nitrobenzene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.35850	Nitrodiphenylamine (2-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.35900	Nitrophenol (2-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.35950	Nitrophenol (4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.36000	N-Nitrosodiethylamine	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.36050	N-Nitrosodimethylamine	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.36100	N-Nitroso-di-n-butylamine	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.36150	N-Nitroso-di-n-propylamine	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.36200	N-Nitrosodiphenylamine / Diphenylamine	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.36250	N-Nitrosomethylthylamine	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.36300	N-Nitrosomorpholine	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.36350	N-Nitrosopiperidine	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.36400	N-Nitrosopyrrolidine	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.36450	Octadecane (n-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA



Annual Certified Parameter List and Current Status

Effective as of 07/01/2023 until 6/30/2024

Laboratory Name: PACE ANALYTICAL NATIONAL CENTER Laboratory Number: TN002 Activity ID: NLC 230001
12065 LEBANON RD
MT. JULIET TN 37122



Category: SCM10--Organic Parameters - Chromatography/MS

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	SCM10.36500	Parathion	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.36550	Parathion methyl	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.36950	Pentachlorobenzene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.37000	Pentachloroethane	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.37050	Pentachloronitrobenzene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.37100	Pentachlorophenol	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.37150	Phenacetin	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.37200	Phenanthrene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.37250	Phenol	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.37300	Phenylenediamine (1,4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.37350	Phenylethylamine (alpha, alpha-Dimethyl)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.37400	Phorate	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.37450	Phosphorothioate (diethyl-O-2-pyrazinyl) [Thionazin]	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.37500	Phosphorothioate (O,O,O-triethyl)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.37550	Picoline (2-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.37600	Pronamide	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.37650	Pyrene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.37700	Pyridine	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.37750	Quinoline	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.37800	Quinoline -1-Oxide (4-Nitro)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.37900	Safrole	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.37950	Sulfotepp	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.38050	Tetrachlorobenzene (1,2,3,4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.38100	Tetrachlorobenzene (1,2,3,5-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.38150	Tetrachlorobenzene (1,2,4,5-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.38200	Tetrachlorophenol (2,3,4,6-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.38250	Toluidine (2-) (2-Methylaniline)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA

KEY: AE = Air and Emissions, BT = Biological Tissues, DW = Drinking Water, NPW = Non-Potable Water, SCM = Solid and Chemical Materials

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Laboratory Name: PACE ANALYTICAL NATIONAL CENTER Laboratory Number: TN002 Activity ID: NLC 230001
12065 LEBANON RD
MT. JULIET TN 37122

Category: SCM10--Organic Parameters - Chromatography/MS

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	SCM10.38350	Toluidine (5-nitro-2-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.38450	Trichlorobenzene (1,2,4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.38500	Trichlorophenol (2,4,5-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.38550	Trichlorophenol (2,4,6-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.38650	Trinitrobenzene (1,3,5-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.38700	Acenaphthene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.38750	Acenaphthylene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.38800	Anthracene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.38850	Benzo(a)anthracene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.38900	Benzo(a)pyrene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.38950	Benzo(b)fluoranthene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.39000	Benzo(ghi)perylene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.39050	Benzo(k)fluoranthene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.39100	Chrysene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.39150	Dibenzo(a,h)anthracene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.39300	Fluoranthene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.39350	Fluorene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.39400	Hexachlorobenzene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.39550	Indeno(1,2,3-cd)pyrene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.39600	Methyl/naphthalene (1-)	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.39650	Methyl/naphthalene (2-)	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.39700	Naphthalene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.39750	N-Nitrosodimethylamine	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.39850	Phenanthrene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.39900	Pyrene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	LA
Certified	Yes	SCM10.41550	Gasoline range organic	GC/MS, P & T, Capillary Column	User Defined SW-846 8260D	LA



KEY: AE = Air and Emissions, BT = Biological Tissues, DW = Drinking Water, NPW = Non-Potable Water, SCM = Solid and Chemical Materials

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Laboratory Name: PACE ANALYTICAL NATIONAL CENTER Laboratory Number: TN002 Activity ID: NLC 230001
12065 LEBANON RD
MT. JULIET TN 37122



Category: SCM12--Radiochem. - Radioactivity/Radionuclides

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	SCM12.00001	Alpha Emitting Radium Isotopes	Precipitation	SW-846 9315	LA
Certified	Yes	SCM12.00050	Barium 133	Gamma Spectrometry	DOE 4.5.2.3	LA
Certified	Yes	SCM12.00100	Barium 133	Gamma Spectrometry	DOE GA-01-R	LA
Certified	Yes	SCM12.00150	Cesium 134/137	Gamma Spectrometry	DOE 4.5.2.3	LA
Certified	Yes	SCM12.00200	Cesium 134/137	Gamma Spectrometry	DOE 4.5.2.3	LA
Applied	No	SCM12.00250	Cesium 134/137	Gamma Spectrometry	DOE GA-01-R	LA
Certified	Yes	SCM12.00300	Cobalt 60	Gamma Spectrometry	EPA 901.1	LA
Certified	Yes	SCM12.00350	Cobalt 60	Gamma Spectrometry	DOE 4.5.2.3	LA
Applied	No	SCM12.00400	Cobalt 60	Gamma Spectrometry	DOE GA-01-R	LA
Certified	Yes	SCM12.00450	Gross - alpha-beta	Proportional Counter	EPA 901.1	LA
Certified	Yes	SCM12.00500	Photon Emitters	Gamma Spectrometry	SW-846 9310	LA
Certified	Yes	SCM12.00550	Photon Emitters	Gamma Spectrometry	DOE 4.5.2.3	LA
Certified	Yes	SCM12.00600	Radium - 226	Gamma Spectrometry	DOE GA-01-R	LA
Certified	Yes	SCM12.00700	Radium - 226	Radon Emanation	DOE Ra-04	LA
Certified	Yes	SCM12.00800	Radium - 228	Precipitation	SM 7500-Ra B	LA
Certified	Yes	SCM12.00950	Strontium - 89, 90	Precipitation / Beta Counting	SW-846 9320	LA
Certified	Yes	SCM12.01100	Thorium	Alpha Spectrometry	DOE Sr-01, Sr-02	LA
Certified	Yes	SCM12.01150	Uranium	Fluorometry	Other LANL ER-200	LA
Certified	Yes	SCM12.01200	Uranium	Alpha Spectrometry	ASTM D5174	LA
Certified	Yes	SCM12.01400	Zinc 65	Gamma Spectrometry	DOE U-02	LA
Certified	Yes	SCM12.01450	Zinc 65	Gamma Spectrometry	DOE 4.5.2.3	LA
Certified	Yes	SCM12.01450	Zinc 65	Gamma Spectrometry	DOE GA-01-R	LA


Michele M. Potter, Manager

Attachment 3: Reference Limits

		UNITS	MDL	RDL	Migration to GW Soil Criterion	Soil Remediation Std Inhal-NonRes	Soil Remediation Std Ingestion- NonRes	Soil Remediation Std Ingestion-Res	Soil Remediation Std Inhal-Res
Metals 7471B 6010D									
ALUMINUM	mg/kg	6.080000	20.000000	NA	NA	19.00	78000.00	NA	
ANTIMONY	mg/kg	0.544000	2.000000	5.40	NA	260000.00	31.00	NA	
ARSENIC	mg/kg	0.518000	2.000000	19.00	5200.00	2600.00	19.00	1100.00	
BARIUM	mg/kg	0.085200	0.500000	2100.00	NA	1100.00	16000.00	870000.00	
CADMIUM	mg/kg	0.047100	0.500000	1.90	12000.00	52000.00	71.00	2600.00	
COBALT	mg/kg	0.081100	1.000000	90.00	2500.00	780.00	23.00	520.00	
COPPER	mg/kg	0.400000	2.000000	910.00	NA	800.00	3100.00	NA	
LEAD	mg/kg	0.208000	0.500000	90.00	NA	31000.00	400.00	NA	
MANGANESE	mg/kg	0.133000	1.000000	NA	400000.00	390.00	1900.00	87000.00	
NICKEL	mg/kg	0.132000	2.000000	48.00	NA	26000.00	1600.00	20000.00	
SELENIUM	mg/kg	0.764000	2.000000	11.00	93000.00	6500.00	390.00	NA	
SILVER	mg/kg	0.127000	1.000000	0.50	NA	6500.00	390.00	NA	
VANADIUM	mg/kg	0.506000	2.000000	NA	NA	6500.00	390.00	170000.00	
ZINC	mg/kg	0.832000	5.000000	930.00	800000.00	390000.00	23000.00	NA	
MERCURY	mg/kg	0.018000	0.040000	1.90	NA	390.00	23.00	520000.00	
SVOCs 8270E									
ANTHRACENE	mg/kg	0.002300	0.006000	NA	NA	50000.00	3600.00	NA	
ACENAPHTHENE	mg/kg	0.002090	0.006000	NA	NA	250000.00	18000.00	NA	
BENZO(A)ANTHRACENE	mg/kg	0.001730	0.006000	0.71	370000.00	23.00	5.10	78000.00	
BENZO(A)PYRENE	mg/kg	0.001790	0.006000	NA	16000.00	2.30	0.51	3500.00	
BENZO(B)FLUORANTHENE	mg/kg	0.001530	0.006000	NA	370000.00	23.00	5.10	78000.00	
BENZO(K)FLUORANTHENE	mg/kg	0.002150	0.006000	NA	NA	230.00	51.00	780000.00	
CHRYSENE	mg/kg	0.002320	0.006000	NA	NA	2300.00	510.00	NA	
DIBENZ(A,H)ANTHRACENE	mg/kg	0.001720	0.006000	NA	37000.00	2.30	0.51	7800.00	
FLUORANTHENE	mg/kg	0.002270	0.006000	NA	NA	33000.00	2400.00	NA	
FLUORENE	mg/kg	0.002050	0.006000	NA	NA	33000.00	2400.00	NA	
INDENO(1,2,3-CD)PYRENE	mg/kg	0.001810	0.006000	NA	370000.00	23.00	5.10	78000.00	
NAPHTHALENE	mg/kg	0.004080	0.020000	19.00	27.00	34000.00	2500.00	5.70	
PYRENE	mg/kg	0.002000	0.006000	21.00	NA	25000.00	1800.00	NA	
STYRENE	mg/kg	0.000223	0.001000	2.10		260000.00	16000.00		
2-METHYLNAPHTHALENE	mg/kg	0.004270	0.020000	3.10	NA	3300.00	240.00	NA	
VOCs 8260D									
ACETONE	mg/kg	0.020700	0.050000	19.00			70000.00		
BENZENE	mg/kg	0.000375	0.001000	0.01	11.00	16.00	3.00	2.20	
BROMOCHLOROMETHANE	mg/kg	0.000335	0.001000						
BROMODICHLOROMETHANE	mg/kg	0.000725	0.001000	0.00		59.00	11.00		
BROMOFORM	mg/kg	0.000424	0.001000	0.02		460.00	88.00		
BROMOMETHANE	mg/kg	0.001170	0.005000	0.04	82.00	1800.00	110.00	18.00	
CARBON DISULFIDE	mg/kg	0.000700	0.001000	3.70					
CARBON TETRACHLORIDE	mg/kg	0.000248	0.001000	0.01	6.90	40.00	7.60	1.40	
CHLOROBENZENE	mg/kg	0.000192	0.001000	0.64		8400.00	510.00		
CHLORODIBROMOMETHANE	mg/kg	0.000224	0.001000	0.00		43.00	8.30		
CHLOROETHANE	mg/kg	0.001000	0.005000						
CHLOROFORM	mg/kg	0.001030	0.005000	0.33		13000.00	780.00	590.00	
CHLOROMETHANE	mg/kg	0.000650	0.002500		1200.00			270.00	
1,2-DIBROMO-3-CHLOROPROPANE	mg/kg	0.001900	0.005000	0.00	0.12	4.50	0.87	0.03	
1,2-DIBROMOETHANE	mg/kg	0.000250	0.001000	0.00	0.41	1.80	0.35	0.09	
DICHLORODIFLUOROMETHANE	mg/kg	0.000287	0.005000	38.00		260000.00	16000.00		
1,1-DICHLOROETHANE	mg/kg	0.000268	0.001000	0.24		640.00	120.00		
1,2-DICHLOROETHANE	mg/kg	0.000450	0.001000	0.01	320.00	30.00	5.80	71.00	
1,2-DICHLOROBENZENE	mg/kg	0.000425	0.001000	11.00		110000.00	6700.00		
1,3-DICHLOROBENZENE	mg/kg	0.000600	0.001000	11.00		110000.00	6700.00		
1,4-DICHLOROBENZENE	mg/kg	0.000830	0.001000	1.40		13000.00	780.00		
1,1-DICHLOROETHENE	mg/kg	0.000355	0.001000	0.01	240.00	180.00	11.00	52.00	
CIS-1,2-DICHLOROETHENE	mg/kg	0.000475	0.001000	0.35		13000.00	780.00		
TRANS-1,2-DICHLOROETHENE	mg/kg	0.000500	0.001000	0.56		22000.00	1300.00		
1,2-DICHLOROPROPANE	mg/kg	0.000164	0.001000	0.01	27.00	98.00	19.00	5.70	
CIS-1,3-DICHLOROPROPENE	mg/kg	0.000425	0.001000						
TRANS-1,3-DICHLOROPROPENE	mg/kg	0.000675	0.001000						
ETHYLBENZENE	mg/kg	0.000300	0.001000	15.00	48.00	130000.00	7800.00	10.00	
ISOPROPYLBENZENE	mg/kg	0.000425	0.001000	22.00		130000.00	7800.00		
2-BUTANONE (MEK)	mg/kg	0.004680	0.010000	0.98		780000.00	47000.00		
METHYL ACETATE	mg/kg	0.003000	0.020000	22.00			78000.00		

METHYLENE CHLORIDE	mg/kg	0.001000	0.005000	0.01		260.00	50.00	1400.00
4-METHYL-2-PENTANONE (MIBK)	mg/kg	0.000950	0.010000					
METHYL TERT-BUTYL ETHER	mg/kg	0.000350	0.001000	0.25	650.00	13000.00	780.00	140.00
1,1,2,2-TETRACHLOROETHANE	mg/kg	0.000231	0.001000	0.01		18.00	3.50	
TETRACHLOROETHENE	mg/kg	0.000325	0.001000	0.01		1700.00	330.00	47.00
TOLUENE	mg/kg	0.001230	0.005000	7.80		100000.00	6300.00	
1,2,3-TRICHLOROBENZENE	mg/kg	0.000306	0.001000					
1,2,4-TRICHLOROBENZENE	mg/kg	0.000388	0.001000	0.52		13000.00	780.00	94.00
1,1,1-TRICHLOROETHANE	mg/kg	0.000370	0.001000	0.20			160000.00	
1,1,2-TRICHLOROETHANE	mg/kg	0.000425	0.001000	0.02		64.00	12.00	
TRICHLOROETHENE	mg/kg	0.000200	0.001000	0.01	14.00	79.00	15.00	3.00
TRICHLOROFLUOROMETHANE	mg/kg	0.000356	0.005000	29.00		390000.00	23000.00	
1,1,2-TRICHLOROTRIFLUOROETHANE	mg/kg	0.000426	0.001000	1300.00				
VINYL CHLORIDE	mg/kg	0.000226	0.001000	0.01	6.40	5.00	0.97	1.40
XYLENES, TOTAL	mg/kg	0.000500	0.003000	19.00		190000.00	12000.00	
TERT-BUTYL ALCOHOL	mg/kg	0.002500	0.005000	0.32		23000.00	1400.00	
PCBs 8082A								
PCB 1016	mg/kg	0.011822	0.034000					
PCB 1221	mg/kg	0.011822	0.034000					
PCB 1232	mg/kg	0.011822	0.034000					
PCB 1242	mg/kg	0.011822	0.034000	1.60	NA	NA	0.25	1.10
PCB 1248	mg/kg	0.007379	0.017000					
PCB 1254	mg/kg	0.007379	0.017000					
PCB 1260	mg/kg	0.007379	0.017000					
EPH 8270E								
C9-C12 ALIPHATICS	mg/kg	1.680000	20.000000					
C12-C16 ALIPHATICS	mg/kg	1.680000	20.000000					
C16-C21 ALIPHATICS	mg/kg	1.840000	20.000000					
C21-C40 ALIPHATICS	mg/kg	1.840000	20.000000					
C10 - C12 AROMATICS	mg/kg	2.120000	20.000000					
C12-C16 AROMATICS	mg/kg	2.120000	20.000000					
C16-C21 AROMATICS	mg/kg	2.120000	20.000000					
C21-C36 AROMATICS	mg/kg	2.120000	20.000000					
TOTAL EPH	mg/kg		10.000000	NA	NA	75000.00	5300.00	NA

Attachment 4: SOPs

The SOPs and the QMP for Pace Analytical, which are protected files and cannot be included in this document, are provided at this link, <https://spaces.hightail.com/space/tKeic7zIkq>.

Attachment 5: Resumes



I. PROFESSIONAL INFORMATION

E. KEY PERSONNEL, CERTIFICATIONS AND QUALIFICATIONS

CRAIG P. DURAND, LSRP, CHMM
PRESIDENT

EXPERIENCE

TTI ENVIRONMENTAL, INC.
President

2000 to Present

Management – Responsible for firm’s technical operations, financial performance, administration and safety performance. Topics routinely evaluated include financial statements, departmental performance, key projects, proposed capital expenditures, company policies, and business forecast. Manage and coach departmental in each of the technical service lines. Direct safety committee in the development and implementation of standard operating procedures, training and third party communication.

Business Development - Responsible for firm’s sales and marketing efforts including developing and implementing marketing strategies, performing direct sales, and client relations activities. Lead sales force consisting of marketing and sales specialists as well as operation directors. Sales are acquired from industry, government, commercial businesses, architectural and engineering firms in the areas of environmental consulting, industrial hygiene, contracting, tank management, engineering and health & safety.

Technical - Support engineers and scientists on principal projects involving multi-location assignments and long term remedial strategies. Activities include review and development of technical work plans and fiscal budgets. Perform License Site Remediation Professional (LSRP) duties on remedial projects for clients. Review technical reports and present findings to clients. Serve as main point of contact for corporate client relationships.

Director of Sales and Marketing

1994 to 2000

Review and prepare technical proposals for all of the firm’s services including site, remediation, industrial hygiene, contracting, mechanical integrity, and safety & health.

Develop and manage sales and marketing campaigns that involve mailers, telemarketing, tradeshows, educational seminars, presentations and introductory meetings.

Manage a five (5) person staff consisting of marketing specialists, salespeople and the firm’s leading seller/doers. Coach individuals on acquiring business and meeting sales goals.

Create and perform client specific presentations on technical and regulatory topics such as soil/groundwater remedial programs, aboveground storage tank inspection programs, and Brownfield strategies.

Director of Environmental Consulting

1990 to 1994

Responsible for the daily supervision of 12 project managers and technicians. Report to Vice President of Operations. Responsibilities include implementation of department budget, direct sales, monthly invoicing, personnel performance reviews and quality control.



I. PROFESSIONAL INFORMATION

E. KEY PERSONNEL, CERTIFICATIONS AND QUALIFICATIONS

CRAIG P. DURAND, LSRP, CHMM - Continued

Develop and maintain internal operating policies and procedures for technical reporting, data collection and assessment protocol.

Perform technical projects for key clients. Projects include Industrial Site Recovery Act proceedings, due diligence assessments, site investigations, soil and groundwater remediation, storage tank management, emergency response supervision, compliance auditing and RCAMDEN REDEVELOPMENT AGENCY closure.

IN-SITU OXIDATIVE TECHNOLOGIES, INC

Environmental Scientist

1994 to 1996

Develop and implement pilot programs for the application of in-situ oxidative treatment of soils and groundwater throughout the United States.

Prepare Remedial Action Workplans and Reports for submission to State and Federal environmental agencies.

Supervise the mobilization of equipment, manpower and treatment chemicals to sites throughout the United States for the performance of full scale treatment programs.

Prepare and obtain NPDES Permit-by-Rule approvals and Underground Injection Control permits for treatment of groundwater contaminant plumes.

NORTHEASTERN ANALYTICAL CORPORATION

Project Manager

1988 to 1990

Perform subsurface assessments of tank closures in accordance with USEPA, NJDEP, PADEP, NYSDEC and DNREC Guidelines. Conduct environmental site assessments for lending institution and property development clientele. Develop and implement sampling and analytical plans related to RCAMDEN REDEVELOPMENT AGENCY, soil/groundwater remediation programs, potable water studies, waste characterization wastewater monitoring and lake assessments.

CAMDEN COUNTY MUNICIPAL UTILITIES AUTHORITY (CCMUA)

Coordinator of Industrial Pretreatment Program

1987 to 1988

Prepare discharge permits for industrial facilities. Perform emergency response actions to illegal and accidental discharges to regional sewerage system.

CERTIFICATIONS & LICENSES

NJDEP Licensed Site Remediation Professional (LSRP No. 573648)

NJDEP Subsurface Evaluation License (No. 009985)

Certified Hazardous Materials Manager (CHMM), Senior Level, No. 4164

USOSHA 29 CFR 1910.120(e) Hazardous Waste Operations

USOSHA Permit Required Confined Space Training Certification

USOSHA 10 Hours Construction Safety and Health

American Safety & Health Institute CPR Certification



I. PROFESSIONAL INFORMATION

E. KEY PERSONNEL, CERTIFICATIONS AND QUALIFICATIONS

CRAIG P. DURAND, LSRP, CHMM – Continued

PROFESSIONAL AFFILIATIONS

American Coatings Association (ACA), Environmental Committee
American Society of Safety Engineers (ASSE), Member
License Site Remediation Professional Association (LSRPA), Member
Builders League of Southern New Jersey (BLSJ), Member
Environmental Bankers Association (EBA), Member
Institute of Hazardous Materials Management (CHMM), Member
New Jersey Association of School Business Officials (NJASBO), Member
Philadelphia Chapter of Academy of Certified Hazardous Material Management (ACHMM), Past President, Chairperson, Member
Pennsylvania Chemistry and Industry Council (PCIC), Member
Society of American Military Engineers (SAME), Member
Society of Women Environment Professionals (SWEP), Member

PRESENTATIONS

“Tank Integrity Regulatory Requirements and Industry Standards” ASSE Professional Development Conference, New Orleans, Louisiana, June 2005

“Tank Integrity Inspections: SPCC & Beyond”, U.S. EPA Region III Emergency Preparedness and Prevention Conference, Philadelphia, Pennsylvania, December 2005

“American Society for Non-Destructive Testing’s Role in Spill Prevention”, Greater Philadelphia Section American Society for Nondestructive Testing, Philadelphia, Pennsylvania, January 2004

“Complying with SPCC’s New Tank Inspection Requirements”, ACHMM 2004 National Conference, Las Vegas, Nevada, August 2004.

“Mold Control: How To Identify, Cost Effectively Remediate & Prevent Mold Problems”, co-sponsored with Capehart & Scatchard, P. A., New Jersey Builders Association, Cherry Hill, New Jersey, December 2003

Lunch & Learn for Environmental Bankers Seminars, Presented by TTI Environmental 2011, 2013, 2014, 2015, and 2016. Topics include:

- ASTM
- Act 2 Land Recycling the Pennsylvania Way
- Due Diligence
- SBA Lending
- LSRP Program, Case Studies
- Non-Scope Environmental Risks and Case Studies
- Vapor Intrusion / Vapor Encroachment
- Recognized Areas of Environmental Concern
- Reliance on State Regulatory Closures
- Onsite Site Screening Tools
- Restricted Use Sites – Ongoing Obligations and Responsibilities
- Phase II Drivers / REC vs HREC



III. PROFESSIONAL INFORMATION

E. KEY PERSONNEL, CERTIFICATIONS AND QUALIFICATIONS

CRAIG P. DURAND, LSRP, CHMM – Continued

“Environmental Consulting – Focus on Site Remediation”, Cherry Hill High School West, Cherry Hill, NJ
February 2016

“Routine/Monthly AST Inspection Training” Webinar presented by TTI Environmental, national
attendance, March 2016

EDUCATION

Bachelor of Science, 1987, Environmental Science, Water Resources - Rutgers, The School of
Environmental and Biological Sciences

RECENT COURSES

Practical Environmental Professional Ethics, LSRPA, October 2012
Regulatory Training in Underground Storage Tanks, Rutgers, May 2013
Environmental Law for LSRP’s, Rutgers, February, February 2014
NJDEP Vapor Intrusion Guidance, Rutgers, April 2014
Remedial Action Permit Training, NJDEP, June 2014
GIS Geographic Information Systems, American Institute of Professional Geologists/LSRPA, May 2015
Combining Engineered Contaminant Source Area Treatment Technologies, Rutgers, October 2015
NJDEP Case Studies for LSRP’s, Rutgers, October 2015
Advanced Tools In situ Remediation, USEPA, February 2016

VOLUNTEER AFFILIATIONS & ACTIVITIES

Delaware Estuary
Environmental Bankers Association Give Back
Cherry Hill Public Schools Career Day
Westside Youth Wrestling Coach



III. PROFESSIONAL INFORMATION

E. KEY PERSONNEL, CERTIFICATIONS AND QUALIFICATIONS

KRISTIN M. HEIMBURGER, LSRP
DIRECTOR OF ENVIRONMENTAL CONSULTING

EXPERIENCE

- **Director of Environmental Consulting (2015 - Present).** Ms. Heimbürger manages complex projects in addition to managing the Environmental Consulting Division. She is responsible for distribution of projects, project coordination and management, budgeting, managing employees and sales/proposals.
- **Environmental Project Supervisor for TTI Environmental Inc. (2002 – 2015).** Ms. Heimbürger provided senior level consulting services for a wide range of industrial, commercial, and residential clients. Consulting service areas included oversight of due diligence projects including Phase I & II Environmental Assessments and management of multi-level environmental investigation/remediation projects at federal facilities, gas stations, and commercial/industrial sites. Ms. Heimbürger’s responsibilities specifically included:
 - Oversight of New Jersey Site Remediation Program cases including Preliminary Assessments, Site Investigation, Remedial Investigations and Remedial Actions in accordance with the NJDEP’s Technical Requirements for Site Remediation and Site Remediation Reform Act (SRRA).
 - Management and review of all Phase I/II assessments prepared in accordance with American Society for Testing and Materials (ASTM) standards.
 - Field supervision of site investigation activities such as soil, groundwater, vapor, and ecological sampling in accordance with applicable Quality Assurance Project Plans and objectives.
 - Management of day care recertification projects performed in accordance with NJDEP.
 - Oversight of regulated and unregulated underground storage tank (UST) closures in NY, PA, NJ, DE, MD, & VA.
 - Preparation and oversight of site remediation projects, industrial demolitions, and gas station closures in accordance with state requirements.
 - Trainer in OSHA refresher courses.
 - Preparation of Environmental Health and Safety plans/projects.
- **Intern, Pennsylvania Small Business Development Center’s Environmental Management Assistance Program (2001 – 2002).** Ms. Heimbürger assisted a Regional Environmental Specialist with many environmental consulting projects focusing on energy efficiency. Some of her responsibilities included:
 - Site visits to small businesses to investigate problems related to energy inefficiency, air quality, soil quality, water quality, and waste disposal.
 - Researched Federal, State, and Local regulations for compliance standards.
 - Located financial help for clients seeking greener alternatives.
 - Compiled all recommendations and information into confidential reports.



III. PROFESSIONAL INFORMATION

E. KEY PERSONNEL, CERTIFICATIONS AND QUALIFICATIONS

KRISTIN M. HEIMBURGER, LSRP - Continued

EDUCATION/CERTIFICATIONS

- Bachelor of Science, Environmental Science – University of Scranton, Scranton, Pennsylvania, May, 2002
- NJDEP Case Study Training for LSRPs, February 2014, Rutgers
- Practical Applications of the New Jersey Site Remediation Program, February 2012, Rutgers
- OSHA 40 Hour Hazardous Waste Training, January 2003
- OSHA 10 Hour Construction Safety & Health Outreach Program. February 2011
- EPA/AHERA/Pennsylvania Asbestos Building Inspector, April 2003
- New Jersey Certification No. 236270, UST Closure and Subsurface Evaluation
- New Jersey Licensed Site Remediation Professional (LSRP No. 628897)

PRESENTATIONS

“Careers in Environmental Consulting”, Stockton University, November 2015

“Environmental Lunch and Learn for Lenders” Reliance on Past NFAs, A Case Study, Moorestown Community Center, March 2015

“Environmental Lunch and Learn for Lenders” The New ASTM Standard, Moorestown Community Center, March 2014

“Petroleum Discharges and Mold Contamination” Review and Update of NJDEP Policies Related to Petroleum Discharges, Travelers Insurance Company, Baltimore, MD, July 2007

PROFESSIONAL AFFILIATIONS

- Society of American Military Engineers
- Builders League of South Jersey
- Philadelphia Chamber of Commerce
- Society of Women Environmental Professionals
- Fuel Merchants Association
- Environmental Business Council of New Jersey
- Licensed Site Remediation Professionals Association



III. PROFESSIONAL INFORMATION

E. KEY PERSONNEL, CERTIFICATIONS AND QUALIFICATIONS

ANDREW R. BASEHOAR, LSRP, P.G.
SENIOR PROJECT MANAGER

EXPERIENCE

Senior Project Manager for TTI Environmental Inc. (October 2013 – Present) Mr. Basehoar provides senior level consulting services for a wide range of industrial, commercial, and residential clients. Consulting service areas include oversight of due diligence projects including Phase I & II Environmental Assessments and management of multi-level environmental investigation/remediation projects at federal facilities, gas stations, and commercial/industrial sites. Mr. Basehoar 's responsibilities specifically include:

- Specialized services in New Jersey and Pennsylvania include Preliminary Assessments, Site Investigation, Remedial Investigations and Remedial Actions in accordance with the NJDEP's Technical Requirements for Site Remediation and Site Remediation Reform Act (SRRA) and PADEP's Land Recycling Program (Act 2).
- Management and review of all Phase I/II assessments prepared in accordance with current Small Business Administration (SBA) and American Society for Testing and Materials (ASTM) standards.
- Field supervision of site investigation activities such as soil, groundwater, vapor, and ecological sampling.
- Experienced in regulated and unregulated underground storage tank (UST) closures in PA, & NJ.
- Preparation and oversight of site remediation projects, industrial demolitions, and gas station closures in accordance with state requirements.
- Performance of sales presentations for large-scale clients.

Senior Environmental Specialist for SSM Group Inc. (January 2008 – October 2013) Mr. Basehoar conducted Phase I and Phase II Environmental Site Assessments, including historic records review, site reconnaissance, soil boring investigations and preparation of reports for state, municipal, and private clients. Mr. Basehoar was involved in all aspects of PADEP Act 2 projects from initial site characterization through final report preparation and submission. Mr. Basehoar coordinated drinking water and process water well installations including well siting through fracture trace analysis, supervision of drilling activities, aquifer testing, and permitting through PADEP, SRBC, and DRBC.

EDUCATION

Bachelor of Science, Environmental Science/Geology – Kutztown University, Kutztown, Pennsylvania, December 2007

CERTIFICATIONS

- NJ Licensed Site Remediation Professional (LSRP) No. 837642
- Pennsylvania Professional Geologist (PG005181)
- OSHA 40 Hour Hazardous Waste Training, 2012, 8-hour refresher 2013.
- ASTM International Phase I and Phase II Environmental Site Assessment Process Training, 2013
- Permitted Confined Spaces Certification



III. PROFESSIONAL INFORMATION

E. KEY PERSONNEL, CERTIFICATIONS AND QUALIFICATIONS

**MATTHEW SCOTT, ENVIRONMENTAL PROFESSIONAL
PROJECT MANAGER**

EXPERIENCE

Project Manager for TTI Environmental, Inc. Mr. Scott assists in all aspects of Phase I Environmental Assessments, site sampling and clean-up of wastes. Mr. Scott's responsibilities include:

- Field screening of soils and sample collection for Site Investigation/Remediation Investigation (SI/RI) projects in accordance with N.J.A.C. 7:26E.
- Sampling of groundwater monitoring wells and reporting of depths of water, conductivity, pH, etc.
- Conducting environmental assessments for real estate transactions, including historical, regulatory and aerial photograph reviews.
- Preparation of Underground Storage Tanks (UST) Closure Reports.
- Oversight/performance of vapor intrusion evaluations including soil gas & indoor air sampling.

Field Technician for Lewis Environmental Inc (September 2011 – January 2012)

- 24 hour emergency spill response and clean up
- Hazardous site remediation
- Confined space entry work for tank cleanings and removal
- Contaminated water filtration using Gak units and Adler tanks

Land Surveyor for Scott Engineering Inc. (June 2009 – August 2011)

- Rodman for mortgage surveys, flood certifications, property boundary delineation, topographic surveys and deed surveys

EDUCATION

- Bachelor of Science, Engineering Technology – University of Delaware. May 2009

CERTIFICATIONS

- OSHA 10-hour Construction Industry Outreach. February 2012
- OSHA 40-hour Hazwoper Training. September 2011
- Confined Space Awareness. September 2011
- EPA/AHERA/Pennsylvania Asbestos Building Inspector. April 2016



III. PROFESSIONAL INFORMATION

E. KEY PERSONNEL, CERTIFICATIONS AND QUALIFICATIONS

RENEE MICHALAK
PROJECT SCIENTIST

EXPERIENCE

Project Scientist for TTI Environmental, Inc. (March 2015 – Present) Ms. Michalak assists in all aspects of Phase I Environmental Assessments, site sampling and state regulated remediations. Ms. Michalak's responsibilities include:

- Field screening of soils and sample collection for Site Investigation/Remediation Investigation (SI/RI) projects in accordance with N.J.A.C. 7:26E.
- Sampling of groundwater monitoring wells and reporting of depths of water, conductivity, pH, etc. Conducting environmental assessments for real estate transactions, including historical, regulatory and aerial photograph reviews.
- Oversight/performance of vapor intrusion evaluations including soil gas & indoor air sampling.

Environmental Scientist 2 for ARCADIS U.S., Inc. (January 2010 – February 2015)

- Oversight of field activities including monitoring well installations, soil borings, waste disposal activities, and utility clearance.
- Assist in preparing site specific reports and documents for Clients in order to comply with NJDEP regulations and requirements. Reports include Remedial Investigation Reports, Remedial Action Reports, Workplans, Annual and Semi-Annual Monitoring Reports.
- Organize and analysis of data collected in the field. Generate figures, tables and reports.
- Collect environmental samples including groundwater, soil, vapor and surface water.

EDUCATION

- Bachelor of Science, Environmental Science – Rutgers University. December 2009

CERTIFICATIONS

- OSHA 10-hour Construction Safety and Health Training, 2011
- OSHA 40-hour Hazwoper 29 CFR 1910.120((e)), 2009 (refreshed annually)
- Permit Required Confined Space Training, 2011



III. PROFESSIONAL INFORMATION

E. KEY PERSONNEL, CERTIFICATIONS AND QUALIFICATIONS

DAVID DIPASCALE
ENVIRONMENTAL ASSOCIATE II

EXPERIENCE:

Environmental Associate II for TTI Environmental, Inc. Mr. DiPascale assists in all aspects of Phase I Environmental Assessments, site sampling and clean-up of wastes. Mr. DiPascale's responsibilities include:

- Field screening of soils and sample collection for Site Investigation/Remediation Investigation (SI/RI) projects in accordance with N.J.A.C. 7:26E.
- Sampling of groundwater monitoring wells and reporting of depths of water, conductivity, pH, etc.
- Conducting environmental assessments for real estate transactions, including historical, regulatory and aerial photograph reviews.
- Preparation of Underground Storage Tanks (UST) Closure Reports.

Intern for TTI Environmental, Inc. (May 2013 – January 2014)

- Provide assistance with reports for Above Ground Storage Tank Inspections department as well as the Industrial Hygiene department.
- Provide assistance with the company Health and Safety Program to make sure the program were in compliance with OSHA Standards.

EDUCATION/CERTIFICATIONS:

- Bachelor of Science, Integrated Science and Technology – James Madison University. May 2014
- OSHA 40-hour Hazwoper Training. October 2014



III. PROFESSIONAL INFORMATION

E. KEY PERSONNEL, CERTIFICATIONS AND QUALIFICATIONS

ALEC HALBRUNER
ENVIRONMENTAL ASSOCIATE 1

EXPERIENCE

Environmental Associate 1 for TTI Environmental, Inc. Mr. Halbruner assists with site due diligence, soil and groundwater sampling, and evaluations of sites for potential hazardous materials. Mr. Halbruner's responsibilities include:

- Preparation of Phase I and Phase II Environmental Site Assessments under the oversight of an Environmental Professional
- Assisting with NJDEP Site Remediation Program site activities including Preliminary Assessments, Site Investigations, Remedial Investigations, and Remedial Actions in accordance with N.J.A.C. 7:26E.
- Assisting with PA Act 2 Site activities and reporting
- Sampling of groundwater monitoring wells via low flow methodology and/or volume-based purging and collection of immediate analysis parameters including depths to water, conductivity, pH, temperature, turbidity, etc.

Field Technician for Saltmarsh Habitat and Avian Research Program (SHARP)

- Used real-time kinetics (RTK) technology to collect elevation data relevant to salt marsh ecological health studies
- Recorded prominence of various marsh plant species using Trimble Geo equipment to collect GPS data
- Assisted in writing data reports communicating findings in the field

EDUCATION

- Bachelor of Science, Environmental Science – University of Delaware. December 2015.

CERTIFICATIONS

- OSHA 40-hour Hazwoper Training, May 2017



III. PROFESSIONAL INFORMATION

E. KEY PERSONNEL, CERTIFICATIONS AND QUALIFICATIONS

KEVIN CARR
ENVIRONMENTAL ASSOCIATE 1

EXPERIENCE

Environmental Associate 1 for TTI Environmental, Inc. Mr. Carr assists with site due diligence, soil and groundwater sampling, and evaluations of sites for potential hazardous materials. Mr. Carr's responsibilities include:

- Preparation of Phase I and Phase II Environmental Site Assessments under the oversight of an Environmental Professional
- Assisting with NJDEP Site Remediation Program site activities including Preliminary Assessments, Site Investigations, Remedial Investigations, and Remedial Actions in accordance with N.J.A.C. 7:26E
- Assisting with PA Act 2 Site activities and reporting
- Soil and groundwater sampling in accordance with state regulations

Field Geologist (September 5, 2016 – December 11, 2016)
Stockton University – Galloway, NJ

- Used aerial maps to navigate within a field site and a Brunton compass to collect attitude data of exposed bedrock
- Used knowledge of surface geology and exposed outcrops to create assumptions about the study area
- Created diagrams, maps, and cross sections of field areas with reference to collected data, such as strike and dip of bedrock using InkScape and Adobe Illustrator
- Wrote field reports on the study area, which included observations of the field site, collected data, results, and conclusions

EDUCATION

Bachelor of Science, Environmental Science – Stockton University. May 2018

- Minor in Geology

SKILLS

- Microsoft Office - Proficient in Word, Excel, and PowerPoint
- Experience in ArcGIS - ArcMap (GIS, Advanced GIS) and ArcGIS Pro
- Geological mapping using Brunton Pocket Transit (Brunton Compass)
- InkScape and Adobe Illustrator



III. PROFESSIONAL INFORMATION

E. KEY PERSONNEL, CERTIFICATIONS AND QUALIFICATIONS

AUSTIN FALCIANI
ENVIRONMENTAL ASSOCIATE 1

EXPERIENCE

Environmental Associate 1 for TTI Environmental, Inc. Mr. Falciani assists with site due diligence, soil and groundwater sampling, and evaluations of sites for potential hazardous materials.

Mr. Falciani's responsibilities include:

- Preparation of Phase I and Phase II Environmental Site Assessments under the oversight of an Environmental Professional
- Assists with NJDEP Site Remediation Program site activities including Preliminary Assessments, Site Investigations, Remedial Investigations, and Remedial Actions in accordance with N.J.A.C. 7:26E. Assisting with PA Act 2 Site activities and reporting
- Sampling of groundwater monitoring wells via low flow methodology and/or volume-based purging and collection of immediate analysis parameters including depths to water, conductivity, pH, temperature, turbidity, etc.

Staff Scientist for Handex Consulting and Remediation

- Experience with groundwater, surface water, potable water system, soil and sediment sampling techniques in accordance with the NJDEP Field Sampling Procedures manual.
- Competency in preparation of remedial reports including tables, texts, and figures,
- Mastery of data analysis for report writing and sampling strategy plans.
- Proficiency organizing monthly system discharge reports for NJPDES program

Lab Assistant for Rutgers University Turf Grass Entomology

- Experienced eye for detail by searching for annual bluegrass weevil larvae in soil cores and counting individual Japanese beetles in batches of up to 500
- Maintained ethics in following standard operating procedures
- Organized and cleaned lab equipment: glassware, forceps, large plastic containers

George H Cook Honors Thesis for Rutgers University Department of Microbiology and Biochemistry

- Conducted research including a research proposal, write up of lab protocols, final document, and defense of thesis.
- Technical lab skills: anaerobic techniques, preparation of defined media, preparation of biodegradation microcosms, chemical analytics (preparation of standard curve, preparation of stock solutions, use of HPLC to analyze samples)

EDUCATION

- Bachelor of Science in Environmental Science, Rutgers University, January 2017

CERTIFICATIONS

- HAZWOPER Training, March 2020