

## Cover Page

**Order ID :** Q3150

**Project ID :** NYC DOT Harper Street Yard North

**Client :** Scalamandre – Tully JV

### Lab Sample Number

Q3150-01  
Q3150-02  
Q3150-03  
Q3150-04  
Q3150-06  
Q3150-07

### Client Sample Number

MER Rd Con Ed  
MER Rd Con Ed  
Mid Site Grid 5-7  
Mid Site Grid 5-7  
MER Rd Con Ed  
Mid Site Grid 5-7

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

Signature : \_\_\_\_\_

Date: 10/17/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



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## **CASE NARRATIVE**

**Scalamandre – Tully JV**

**Project Name: NYC DOT Harper Street Yard North**

**Project # N/A**

**Order ID # Q3150**

**Test Name: VOCMS Group1,SVOCMS Group1,PCB,Mercury,Metals ICP-RCRA,TCLP ICP Metals,TCLP Mercury,Corrosivity,Ignitability,Reactive Cyanide,Reactive Sulfide**

### **A. Number of Samples and Date of Receipt:**

6 Solid samples were received on 09/19/2025.

### **B. Parameters**

According to the Chain of Custody document, the following analyses were requested: VOCMS Group1,SVOCMS Group1,PCB,Mercury,Metals ICP-RCRA,TCLP ICP Metals,TCLP Mercury,Corrosivity,Ignitability,Reactive Cyanide,Reactive Sulfide. This data package contains results for VOCMS Group1(8260D),SVOCMS Group1(8270E),PCB(8082A),Mercury(7471B),Metals ICP-RCRA(6010D),TCLP ICP Metals(6010D),TCLP Mercury(7470A),Corrosivity(9045D),Ignitability(1030),Reactive Cyanide(9012B),Reactive Sulfide(9034).

### **C. Analytical Techniques:**

VOCMS Group1 : The analysis performed on instrument MSVOA\_W were done using GC column Rxi-624SIL MS 30m, 0.25mm, 1.4 um, Cat. #13868.The analysis of VOCMS Group1 was based on method 8260D.

SVOCMS Group1 : The samples were analyzed on instrument BNA\_G using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGA. The samples were analyzed on instrument BNA\_P using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGA. The analysis of SVOCMS Group1 was based on method 8270E and extraction was done based on method 3541.

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



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TCLP ICP Metals, TCLP Mercury : The analysis of TCLP ICP Metals was based on method 6010D, digestion based on method 3010 (waters). The analysis and digestion of TCLP Mercury was based on method 7470A and TCLP extraction method was 1311.

Mercury, Metals ICP-RCRA : The analysis of Metals ICP-RCRA was based on method 6010D, digestion based on method 3050 (soils). The analysis and digestion of Mercury was based on method 7471B.

Wetchem : The analysis of Corrosivity, Ignitability, Reactive Cyanide, Reactive Sulfide was based on method 1030, 9012B, 9034, 9045D and extraction was done based on method 8015B.

#### **D. QA/ QC Samples:**

The Holding Times were met for all analysis except following Wetchem : MER Rd Con Ed of Corrosivity and for Mid Site Grid 5-7 of Corrosivity as samples were received out of holding time.

The Surrogate recoveries were met for all analysis except following PCB : Mid Site Grid 5-7 [Decachlorobiphenyl(1)24%]. As per method one surrogate allowed to fail to meet the criteria per column. No further corrective action was taken.

The Internal Standards Areas were met for all analysis except following VOCMS Group1 : MER Rd Con Ed, MER Rd Con EdRE, Mid Site Grid 5-7 and Mid Site Grid 5-7RE the failure samples were reanalyzed to confirm the failure and reported.

The Retention Times were acceptable for all samples.

The MS recoveries met the requirements for all compounds except following Mercury, Metals ICP-RCRA : The Matrix Spike (2ND-STREET-SOILMS) analysis met criteria for all compounds except for Barium, Silver due to unknown chemical interference of matrix which are suppressing the signal of spike added.

The MSD recoveries met the requirements for all compounds except following Mercury, Metals ICP-RCRA : The Matrix Spike Duplicate (2ND-STREET-SOILMSD) analysis met criteria for all compounds except for Barium, Silver due to unknown chemical interference of matrix which are suppressing the signal of spike added.

The RPD were met for all analysis except following VOCMS Group1 : The RPD for {VW0919SBS01} with File ID: VW032207.D met criteria except for Trichlorofluoromethane[24%]. Due to difference in BS and BSD concentrations.

The Blank Spike met requirements for all compounds except following VOCMS Group1 : The Blank Spike for {VW0919SBS01} with File ID: VW032206.D met requirements for all compounds except for 1,1,2-Trichlorotrifluoroethane[125%],



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1,1-Dichloroethene[123%]. Failing high but associated samples have no positive hit for these compounds therefore no corrective action was taken.

VOCMS Group1 : The Blank Spike for {VW0922SBS01} with File ID: VW032225.D met requirements for all compounds except for Chloroethane[132%]. Failing high but associated samples have no positive hit for this compound therefore no corrective action was taken.

VOCMS Group1 : The Blank Spike for {VW1002SBS01} with File ID: VW032324.D met requirements for all compounds except for Methylene Chloride[134%]. failing high but associated sample having hit for Methylene Chloride below CRQL therefore no corrective action was taken.

The Blank Spike Duplicate met requirements for all compounds except following VOCMS Group1 : The Blank Spike Duplicate for {VW0919SBSD01} with File ID: VW032207.D met requirements for all compounds except for 1,1-Dichloroethene[127%] and Chloroethane[142%]. Failing high but associated samples have no positive hit for these compounds therefore no corrective action was taken.

VOCMS Group1 : The Blank Spike Duplicate for {VW0922SBSD01} with File ID: VW032226.D met requirements for all compounds except for 1,1,2-Trichlorotrifluoroethane[136%], 1,1-Dichloroethene[133%], Chloroethane[138%] and Trichlorofluoromethane[138%].

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

The Initial Calibration met the requirements except following

VOCMS Group1 : The %RSD is greater than 20% in the Initial Calibration method (82W082625S.M) for Methylene chloride, this compound is passing on Quadratic regression.

The %RSD is greater than 20% in the Initial Calibration method (82W092525S.M) for Methylene chloride, this compound is passing on Linear regression.

The %RSD is greater than 20% in the Initial Calibration method (82W100125S.M) for Methylene chloride, this compound is passing on Linear regression.

SVOCMS Group1 : The %RSD is greater than 20% in the Initial Calibration (Method 8270-BP091225.M) for 2,4-Dinitrophenol & 4-Nitrophenol. These Compounds are passing on Linear regression

The Continuous Calibration met the requirements except following

VOCMS Group1 : The Continuous Calibration File ID VW032204.D met the requirements except for Methyl Acetate. Failing marginally therefore no corrective action was taken.



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SVOCMS Group1 : The Continuous Calibration File ID BP025824.D met the requirements except for 4-Nitrophenol, Benzaldehyde, Benzo(g,h,i)perylene and Caprolactam. But associated samples have no positive hit for these compounds therefore no corrective action was taken.

The Continuous Calibration File ID BP025840.D met the requirements except for Benzaldehyde and Caprolactam. But associated samples have no positive hit for these compounds therefore no corrective action was taken.

The Continuous Calibration File ID BP025855.D met the requirements except for Benzaldehyde. But associated samples have no positive hit for this compound therefore no corrective action was taken

PCB : The Continuous Calibration File ID PQ070933.D met the requirements except for Decachlorobiphenyl is failing in 2nd column, however it is passed in 1st column therefore no corrective action was taken.

The Continuous Calibration File ID PQ070944.D met the requirements except for Decachlorobiphenyl is failing in 2nd column, however it is passed in 1st column therefore no corrective action was taken.

The Tuning criteria met requirements.

The Duplicate analysis met criteria for all samples.  
The Serial Dilution met the acceptable requirements.

**E. Additional Comments:**

The soil samples results are based on a dry weight basis.  
The temperature of the samples at the time of receipt was 18.3°C

SEMI-VOA : The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.

Corrosivity, Ignitability, Reactive Cyanide, Reactive Sulfide : .

Mercury, Metals ICP-RCRA : The Post Digest Spike (LAYDOWN-YARD-2A) analysis met criteria for all compounds except for Barium, and Silver due to unknown chemical interference of matrix with the addition of spike amount after digestion and before analysis; matrix has suppression effect during addition of spike.

As per client request samples MER Rd Con Ed and Mid Site Grid 5-7 are activated on 10/15/2025



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PCB : .

SVOCMS Group1 : .

VOCMS Group1 : Samples for MS/MSD for VOC analysis were not provided with this set of samples. The Blank Spike Duplicate is reported with the data.  
Trip Blank was not provided with this set of samples.

TCLP ICP Metals,TCLP Mercury : .

**F. Manual Integration Comments:**

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

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

Signature\_\_\_\_\_

## DATA REPORTING QUALIFIERS- INORGANIC

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

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

## DATA REPORTING QUALIFIERS- ORGANIC

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

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

## APPENDIX A

### QA REVIEW GENERAL DOCUMENTATION

Project #: Q3150

Completed

For thorough review, the report must have the following:

#### GENERAL:

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

✓

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

✓

Is the chain of custody signed and complete

✓

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

✓

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

✓

#### COVER PAGE:

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

✓

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

✓

#### CHAIN OF CUSTODY:

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

✓

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

✓

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

✓

Were the samples received within hold time

✓

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

✓

#### ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 10/17/2025