Gowanus Canal Site
Vapor Intrusion/Indoor Air
Sampling Report for the 2025/2026
Heating Season
Site No. 224133
Brooklyn, New York
Volume 2
Part 4

September 2026

Prepared for:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Division of Environmental Remediation
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Building Identifier and Data Usability Summary Report (DUSR) Number Association Table

Part	Building Identifier	Laboratory Report Number
3	GC017	26A0961
3	GC055	26C1200
3	GC112B	26B0612
3	GC112C	26B0614
3	GC112D	26B0613
3	GC141	410-253868
3	GC162	410-256936
3	GC179	26C1581
3	$GC179_{GW}$	410-272797
3	GC207	26B0364
3	GC245	26A0957
3	GC275	410-265716-1
3	GC281	26C1414
3	GC303	26A1285
3	GC303	26C1416
3	GC306	26A1281
3	GC306	26C1417
3	GC311	26A1283
3	GC311	26C1418
3	GC314	26B0830
3	GC329	410-265716-2
3	GC340	410-268696
3	$GC340_{GW}$	410-269189
3	GC351	26B1095
3	GC351	JE31332
3	GC355	26B0306
3	$GC355_{GW}$	410-263981
3	GC369	26A0802
3	GC386	410-260305
3	GC387	26C1575
3	$GC387_{GW}$	410-272795
3	GC388	26C1583
3	$GC388_{GW}$	410-272790
3	GC391	410-260933
3	GC421	410-265443
3	GC426	26A1134
3	GC428	26C0823
3	GC431	26C1579
3	GC439	26B0832
3	GC446	410-269022
3	GC451	410-263993
3	GC454	410-253363
3	GC457	410-254602
3	GC457	26C1576
3	GC459	410-256236
3	GC460	410-253886
3	GC461	26B0528
3	GC461	JE31328
3	GC463	410-253364
3	GC465	410-258838
3	GC466	410-253365
3	$GC466_{GW}$	460-339591
3	GC466	26D0205
4	GC467	410-254962
4	GC467	410-268698
4	GC468	410-256232
4	GC469	410-268695
4	GC470	410-263069
4	GC470	JE31330
4	GC471	410-256267
4	GC472	26B1096
4	GC473	26B0304
4	GC476	410-269023
4	GC477	26A0529
4	GC480	410-262882
4	GC480	26D0204
4	GC482	25L0615
4	GC483	410-253367
4	GC485	410-256273
4	GC486	26B0006
4	GC487	410-256244
4	GC489	26B1091
4	GC490	410-254597
4	GC491	410-256272
4	GC491	26C1106
4	GC493	25L1344
4	GC494	26B0829
4	GC495	26A0959
4	GC496	26C0081
4	GC498	25L0614
4	$GC498_{GW}$	410-256846
4	GC499	410-256247
4	GC500	410-256288
4	GC502	25L1494
4	$GC502_{GW}$	460-342360
4	GC503	410-260974
4	GC504	410-258856
4	GC505	410-262001-3
4	GC506	410-256941
4	GC508	26C1573
4	GC509	26B0307
4	GC510	26B0187
4	GC511	26B0191
4	GC512	410-260972
4	GC513	26C1207
4	GC513	JE31451
4	GC514	410-262001-1
4	GC515	410-262001-2
4	GC517	26A1291
4	GC518	JE31452
4	GC520	JE31449
4	GC521	JE31798

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: December 12, 2025	Prepared by: Sayward Gohman-Kramer Reviewed by:

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- NYSDEC Division of Environmental Remediation Guidance for Data Deliverables and the Development of Data Usability Summary Reports (in DER-10, May 2010)
- EPA Region 2 Data Validation
    - SOP NO. HW-31, Revision 6, Volatile Organic Compounds in Air Contained in Canisters by Method TO-15

This validation was performed under Category B guidelines. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

Project ID	Lab Work Order	Laboratory Report
EE1705007.0028	410-254962-1	Eurofins – Lancaster

Table 1 Sample Listing Summary

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Field QC	ID Corrections
410-254962-1	AS	GC467-SV01-1125	410-254962-1	11/25/2025 11:11		
410-254962-1	AO	GC467-OA01-1125	410-254962-2	11/25/2025 11:06		
410-254962-1	AI	GC467-BA01-1125	410-254962-3	11/25/2025 11:07		
410-254962-1	AI	GC467-FA01-1125	410-254962-4	11/25/2025 11:29		

Table 1A Sample Test Summary

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
410-254962-1	AS	TO-15	Volatile Organic Compounds by GC/MS	1	N
410-254962-1	AI	TO-15	Volatile Organic Compounds by GC/MS	2	N
410-254962-1	AO	TO-15	Volatile Organic Compounds by GC/MS	1	N

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: December 12, 2025	Prepared by: Sayward Gohman-Kramer Reviewed by:

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	No. Samples were named incorrectly on the chain of custody. Sample names were revised for the report and EDD.
Did coolers arrive at lab between 2 and 6ºC and in good condition as indicated on COC and Receipt Form?	Thermal preservation is not required.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples	No field duplicate associated with this SDG was collected. However, 1 per 20 field QC frequency will be evaluated at end of sampling event.
Case narrative present and complete?	Yes. The air canisters were batched certified to be below the reporting limit for all target analytes.
Any holding time violations?	No.

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Method Blanks Results (Table 2)
- LCS Outside Limits (Table 3)
- CCV/ICV Outside Limits (Table 4)
- Internal Standard Outside Limits (Table 5)
- Reanalysis/Dilution Results (Table 6)

Go to List

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: December 12, 2025	Prepared by: Sayward Gohman-Kramer Reviewed by:

Volatile Organic Compounds by Method TO-15	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or field blanks (see Table 2)?	No.
For samples, if results are < 2 times the blank or < 4 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Not applicable.
Is Laboratory QC frequency at least one blank and LCS with each batch?	Yes.
Is LCS within QC criteria (see Table 3)? If out, and the recovery is high with no positive values, then no data qualification is required.	Yes.
Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix (see Table 5)?	Yes.
Is initial calibration for target compounds <30 %RSD or curve fit? (see Table 4)	No. Tetrachloroethene exhibited high %RSD in calibration curve 77476. This compound was detected in sample GC467-FA01-1125; therefore, result was J qualified as estimated. When samples were non-detect, no qualification was made.
Is the initial calibration verification for target compounds between laboratory limits or 70-130%? (see Table 4)	Yes.
Is continuing calibration for target compounds <30 %D? (see Table 4)	Yes.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	Several samples were diluted to bring concentrations within the calibration range. The reporting limits have been adjusted accordingly. No qualification was made based on dilutions. No data usability issues were observed.
For TICs are there any system related compounds that should not be reported?	No.

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: December 12, 2025	Prepared by: Sayward Gohman-Kramer Reviewed by:

Quantitation Limits and Data Assessment: Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the TO-15 analysis. These results were qualified as estimated (J) by the laboratory.

Data Validation Qualifiers Definitions:

J – The analyte QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. The 'J' qualified data may be biased high (+) or low (-) or the direction of the bias may be indeterminable.

Summary of Findings
• Tetrachloroethane was J qualified in sample GC467-FA01-1125 due to poor initial calibration.

Table 2 - List of Positive Results for Blank Samples
None.

Table 2A - List of Samples Qualified for Method Blank Contamination
None.

Table 3 – List of LCS Recoveries outside Control Limits
None.

Table 3A – List of LCS RPD outside Control Limits
None.

Table 4 – List of ICAL/ICV/CCV recoveries outside Control Limits

Method	Sample Name	Sample Type	Analyte	RRF, %RSD or %D	RRF, %RSD or %D Limit	Associated Samples	Qualifier
TO-15	77476	ICAL	Tetrachloroethene	33.8	30	GC467-SV01-1125 GC467-OA01-1125 GC467-BA01-1125	None - ND
						GC467-FA01-1125	J

Table 5 – Internal Standard Outside Control Limits
None.

Table 6 – Samples that were Re-analyzed/Diluted

Method	Batch	Sample	Laboratory ID	Analyte	Reason
TO-15	741040	GC467-SV01-1125	410-254962-1	1,1,1-Trichloroethane	10x Dilution
TO-15	741701	GC467-BA01-1125	410-254962-3	1,1,1-Trichloroethane 1,2-Dichloroethane	40x Dilution
TO-15	741040	GC467-FA01-1125	410-254962-4	1,1,1-Trichloroethane 1,2-Dichloroethane	20x Dilution

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: December 12, 2025	Prepared by: Sayward Gohman-Kramer Reviewed by:

Acronym List and Table Key:

AI	=	indoor ambient air
AO	=	outdoor ambient air
AS	=	sub slab soil vapor
Abs Diff	=	absolute difference
CCV	=	continuing calibration verification
COC	=	chain of custody
DUSR	=	data usability summary report
EPA	=	Environmental Protection Agency
FD	=	field duplicate
GC/MS	=	gas chromatography / mass spectrometry
ICAL	=	initial calibration
ICV	=	initial calibration verification
LCS	=	laboratory control sample
MB	=	method blank
MDL	=	method detection limit
N	=	normal (field) sample
NC	=	not calculated
ND	=	not detected
NYSDEC	=	New York State Department of Environmental Conservation
PQL	=	practical quantitation limit
QA	=	quality assurance
QC	=	quality control
RPD	=	relative percent difference
RRF	=	relative response factor
RSD	=	relative standard deviation
SDG	=	sample delivery group
TRG	=	target compound
%D	=	percent difference
%RSD	=	percent relative standard deviation
ug/m^3	=	microgram per cubic meter

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: March 24, 2026	Completed by: Sayward Gohman-Kramer

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- NYSDEC Division of Environmental Remediation Guidance for Data Deliverables and the Development of Data Usability Summary Reports (in DER-10, May 2010)
- EPA Region 2 Data Validation
    - SOP NO. HW-31, Revision 6, Volatile Organic Compounds in Air Contained in Canisters by Method TO-15

This validation was performed under Category B guidelines. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

Project ID	Lab Work Order	Laboratory Report
EE1705007.0028	410-268698-1	Eurofins – Lancaster

Table 1 Sample Listing Summary

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Field QC	ID Corrections
410-268698-1	AI	GC467-BA01-0326	410-268698-1	3/4/2026 12:02		
410-268698-1	AI	GC467-FA01-0326	410-268698-2	3/4/2026 12:01		
410-268698-1	AO	GC467-OA01-0326	410-268698-3	3/4/2026 12:03		

Table 1A Sample Test Summary

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
410-268698-1	AI	TO-15	Volatile Organic Compounds by GC/MS	2	N
410-268698-1	AO	TO-15	Volatile Organic Compounds by GC/MS	1	N

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	Yes.
Did coolers arrive at lab between 2 and 6°C and in good condition as indicated on COC and Receipt Form?	Thermal preservation is not required.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples	No field duplicate associated with this SDG was collected. However, 1 per 20 field QC frequency will be evaluated at end of sampling event.
Case narrative present and complete?	Yes. The air canisters were batched certified to be below the reporting limit for all target analytes.
Any holding time violations?	No.

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Method Blanks Results (Table 2)
- LCS Outside Limits (Table 3)
- CCV/ICV Outside Limits (Table 4)
- Internal Standard Outside Limits (Table 5)
- Reanalysis/Dilution Results (Table 6)

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Volatile Organic Compounds by Method TO-15	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or field blanks (see Table 2)?	No.
For samples, if results are < 2 times the blank or < 4 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Not applicable.
Is Laboratory QC frequency at least one blank and LCS with each batch?	Yes.
Is LCS within QC criteria (see Table 3)? If out, and the recovery is high with no positive values, then no data qualification is required.	No. Cyclohexane was recovered below acceptance criteria in LCS 410-780809/4. This compound was non-detect in sample GC467-BA01-0326 and GC467-FA01-0326 and was UJ qualified. Cyclohexane was detected in sample GC467-OA01-0326; therefore, results were J qualified as estimated.
Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix (see Table 5)?	Yes.
Is initial calibration for target compounds <30 %RSD or curve fit? (see Table 4)	Yes.
Is the initial calibration verification for target compounds between laboratory limits or 70-130%? (see Table 4)	Yes.
Is continuing calibration for target compounds <30 %D? (see Table 4)	Yes.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	No.
For TICs are there any system related compounds that should not be reported?	No.

Quantitation Limits and Data Assessment: Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the TO-15 analysis. These results were qualified as estimated (J) by the laboratory.

Data Validation Qualifiers Definitions:

J – The analyte QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. The 'J' qualified data may be biased high (+) or low (-) or the direction of the bias may be indeterminable.

UJ - The analyte was not detected above the reported sample quantitation limit. The analyte QC analysis fails outside the primary acceptance limits. The "UJ" qualified data are not excluded from further review or consideration. The 'UJ' qualified data may be biased low.

Summary of Findings
• Cyclohexane was UJ qualified in samples GC467-BA01-0326 and GC467-FA01-0326 and was J qualified in sample GC467-OA01-0326 due to low LCS recovery.

Table 2 - List of Positive Results for Blank Samples
None.

Table 2A - List of Samples Qualified for Method Blank Contamination
None.

Table 3 – List of LCS Recoveries outside Control Limits

Method	Sample Name	Sample Type	Analyte	LCS(D) R%	Low Limit	High Limit	Associated Samples	Qualifier
TO-15	410-780809/4	LCS	Cyclohexane	58	61	130	GC467-BA01-0326 GC467-FA01-0326	UJ
							GC467-OA01-0326	J

Table 3A – List of LCS RPD outside Control Limits
None.

Table 4 – List of ICAL/ICV/CCV recoveries outside Control Limits
None.

Table 5 – Internal Standard Outside Control Limits
None

Table 6 – Samples that were Re-analyzed/Diluted
None.

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: March 24, 2026	Completed by: Sayward Gohman-Kramer

Acronym List and Table Key:

AI	=	indoor ambient air
AO	=	outdoor ambient air
AS	=	sub slab soil vapor
Abs Diff	=	absolute difference
CCV	=	continuing calibration verification
COC	=	chain of custody
DUSR	=	data usability summary report
EPA	=	Environmental Protection Agency
FD	=	field duplicate
GC/MS	=	gas chromatography / mass spectrometry
ICAL	=	initial calibration
ICV	=	initial calibration verification
LCS	=	laboratory control sample
MB	=	method blank
MDL	=	method detection limit
N	=	normal (field) sample
NC	=	not calculated
ND	=	not detected
NYSDEC	=	New York State Department of Environmental Conservation
PQL	=	practical quantitation limit
QA	=	quality assurance
QC	=	quality control
RPD	=	relative percent difference
RRF	=	relative response factor
RSD	=	relative standard deviation
SDG	=	sample delivery group
TRG	=	target compound
%D	=	percent difference
%RSD	=	percent relative standard deviation
ug/m^3	=	microgram per cubic meter

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: December 30, 2025	Prepared by: Sayward Gohman-Kramer Reviewed by:

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- NYSDEC Division of Environmental Remediation Guidance for Data Deliverables and the Development of Data Usability Summary Reports (in DER-10, May 2010)
- EPA Region 2 Data Validation
    - SOP NO. HW-31, Revision 6, Volatile Organic Compounds in Air Contained in Canisters by Method TO-15

This validation was performed under Category B guidelines. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

Project ID	Lab Work Order	Laboratory Report
EE1705007.0028	410-256232-1	Eurofins – Lancaster

Table 1 Sample Listing Summary

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Field QC	ID Corrections
410-256232-1	AS	GC468-SV01-1225	410-256232-1	12/4/2025 8:54		
410-256232-1	AO	GC468-OA01-1225	410-256232-3	12/4/2025 9:07		

Table 1A Sample Test Summary

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
410-256232-1	AS	TO-15	Volatile Organic Compounds by GC/MS	1	N
410-256232-1	AO	TO-15	Volatile Organic Compounds by GC/MS	1	N

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: December 30, 2025	Prepared by: Sayward Gohman-Kramer Reviewed by:

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	No. Sample GC468-BA01-1225 did not collect enough sample volume for the laboratory to analyze. Analysis was cancelled by the laboratory on 12/9.
Did coolers arrive at lab between 2 and 6°C and in good condition as indicated on COC and Receipt Form?	Thermal preservation is not required.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples	No field duplicate associated with this SDG was collected. However, 1 per 20 field QC frequency will be evaluated at end of sampling event.
Case narrative present and complete?	Yes. The air canisters were batched certified to be below the reporting limit for all target analytes.
Any holding time violations?	No.

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Method Blanks Results (Table 2)
- LCS Outside Limits (Table 3)
- CCV/ICV Outside Limits (Table 4)
- Internal Standard Outside Limits (Table 5)
- Reanalysis/Dilution Results (Table 6)
- Duplicate Results (Table 7)

Go to List

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: December 30, 2025	Prepared by: Sayward Gohman-Kramer Reviewed by:

Volatile Organic Compounds by Method TO-15	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or field blanks (see Table 2)?	No.
For samples, if results are < 2 times the blank or < 4 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Not applicable.
Is Laboratory QC frequency at least one blank and LCS with each batch?	Yes.
Is LCS within QC criteria (see Table 3)? If out, and the recovery is high with no positive values, then no data qualification is required.	Yes.
Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix (see Table 5)?	Yes.
Is initial calibration for target compounds <30 %RSD or curve fit? (see Table 4)	Yes.
Is the initial calibration verification for target compounds between laboratory limits or 70-130%? (see Table 4)	Yes.
Is continuing calibration for target compounds <30 %D? (see Table 4)	Yes.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	No.
For TICs are there any system related compounds that should not be reported?	No.
Do duplicate results show good precision for all compounds except TICs (see Table 7)?	Yes.

Quantitation Limits and Data Assessment: Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the TO-15 analysis. These results were qualified as estimated (J) by the laboratory.

Summary of Findings
• No data usability issues were observed.

Table 2 - List of Positive Results for Blank Samples
None.

Table 2A - List of Samples Qualified for Method Blank Contamination
None.

Table 3 – List of LCS Recoveries outside Control Limits
None.

Table 3A – List of LCS RPD outside Control Limits
None.

Table 4 – List of ICAL/ICV/CCV recoveries outside Control Limits
None.

Table 5 – Internal Standard Outside Control Limits
None.

Table 6 – Samples that were Re-analyzed/Diluted
None.

Table 7 – Summary of Duplicate Results

Method	Analyte	Unit	Matrix	PQL	GC468-OA01-1225	410-256232-3 DU	RPD	RPD Rating	Qualifier
TO-15	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	AO	1.5	0.43	0.622	36.5%	Good	None
TO-15	2,2,4-Trimethylpentane	ug/m3	AO	0.93	0.58	0.610	5.0%	Good	None
TO-15	Acetone	ug/m3	AO	12	5.8	5.92	2.0%	Good	None
TO-15	Benzene	ug/m3	AO	0.64	0.67	0.692	3.2%	Good	None
TO-15	Chloromethane	ug/m3	AO	1.0	0.32	0.449	33.6%	Good	None
TO-15	Cyclohexane	ug/m3	AO	0.69	0.34	0.343	0.9%	Good	None
TO-15	Dichlorodifluoromethane	ug/m3	AO	2.5	2.3	2.48	7.5%	Good	None
TO-15	m,p-Xylene	ug/m3	AO	2.2	0.81	0.827	2.1%	Good	None
TO-15	N-Hexane	ug/m3	AO	1.8	0.78	0.804	3.0%	Good	None
TO-15	Toluene	ug/m3	AO	0.75	1.3	1.30	0.0%	Good	None
TO-15	Trichlorofluoromethane	ug/m3	AO	1.1	1.1	1.07	2.8%	Good	None

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: December 30, 2025	Prepared by: Sayward Gohman-Kramer Reviewed by:

Acronym List and Table Key:

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Abs Diff	=	absolute difference
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ICV	=	initial calibration verification
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MDL	=	method detection limit
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NYSDEC	=	New York State Department of Environmental Conservation
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RRF	=	relative response factor
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Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: March 24, 2026	Completed by: Sayward Gohman-Kramer

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This validation was performed under Category B guidelines. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

Project ID	Lab Work Order	Laboratory Report
EE1705007.0028	410-268695-1	Eurofins – Lancaster

Table 1 Sample Listing Summary

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Field QC	ID Corrections
410-268695-1	AS	GC469-SV01-0326	410-268695-1	3/3/2026 11:00		
410-268695-1	AI	GC469-BA01-0326	410-268695-2	3/3/2026 11:00		
410-268695-1	AS	GC469-SV01-0326	410-268695-3	3/3/2026 11:00		
410-268695-1	AI	GC469-FA01-0326	410-268695-4	3/3/2026 11:00		
410-268695-1	AI	GC469-FA02-0326	410-268695-5	3/3/2026 11:58		
410-268695-1	AO	GC469-OA01-0326	410-268695-6	3/3/2026 11:03		

Table 1A Sample Test Summary

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
410-268695-1	AS	TO-15	Volatile Organic Compounds by GC/MS	2	N
410-268695-1	AI	TO-15	Volatile Organic Compounds by GC/MS	3	N
410-268695-1	AO	TO-15	Volatile Organic Compounds by GC/MS	1	N

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	Yes.
Did coolers arrive at lab between 2 and 6°C and in good condition as indicated on COC and Receipt Form?	Thermal preservation is not required.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples	No field duplicate associated with this SDG was collected. However, 1 per 20 field QC frequency will be evaluated at end of sampling event.
Case narrative present and complete?	Yes. The air canisters were batched certified to be below the reporting limit for all target analytes.
Any holding time violations?	No.

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Method Blanks Results (Table 2)
- LCS Outside Limits (Table 3)
- CCV/ICV Outside Limits (Table 4)
- Internal Standard Outside Limits (Table 5)
- Reanalysis/Dilution Results (Table 6)

Go to List

Volatile Organic Compounds by Method TO-15	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or field blanks (see Table 2)?	No.
For samples, if results are < 2 times the blank or < 4 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Not applicable.
Is Laboratory QC frequency at least one blank and LCS with each batch?	Yes.
Is LCS within QC criteria (see Table 3)? If out, and the recovery is high with no positive values, then no data qualification is required.	Yes.
Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix (see Table 5)?	Yes.
Is initial calibration for target compounds <30 %RSD or curve fit? (see Table 4)	Yes.
Is the initial calibration verification for target compounds between laboratory limits or 70-130%? (see Table 4)	Yes.
Is continuing calibration for target compounds <30 %D? (see Table 4)	Yes.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	No.
For TICs are there any system related compounds that should not be reported?	No.

Quantitation Limits and Data Assessment: Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the TO-15 analysis. These results were qualified as estimated (J) by the laboratory.

Summary of Findings
• No data usability issues were observed.

Table 2 - List of Positive Results for Blank Samples
None.

Table 2A - List of Samples Qualified for Method Blank Contamination
None.

Table 3 – List of LCS Recoveries outside Control Limits
None.

Table 3A – List of LCS RPD outside Control Limits
None.

Table 4 – List of ICAL/ICV/CCV recoveries outside Control Limits
None.

Table 5 – Internal Standard Outside Control Limits
None.

Table 6 – Samples that were Re-analyzed/Diluted
None.

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: March 24, 2026	Completed by: Sayward Gohman-Kramer

Acronym List and Table Key:

AI	=	indoor ambient air
AO	=	outdoor ambient air
AS	=	sub slab soil vapor
Abs Diff	=	absolute difference
CCV	=	continuing calibration verification
COC	=	chain of custody
DUSR	=	data usability summary report
EPA	=	Environmental Protection Agency
FD	=	field duplicate
GC/MS	=	gas chromatography / mass spectrometry
ICAL	=	initial calibration
ICV	=	initial calibration verification
LCS	=	laboratory control sample
MB	=	method blank
MDL	=	method detection limit
N	=	normal (field) sample
NC	=	not calculated
ND	=	not detected
NYSDEC	=	New York State Department of Environmental Conservation
PQL	=	practical quantitation limit
QA	=	quality assurance
QC	=	quality control
RPD	=	relative percent difference
RRF	=	relative response factor
RSD	=	relative standard deviation
SDG	=	sample delivery group
TRG	=	target compound
%D	=	percent difference
%RSD	=	percent relative standard deviation
ug/m^3	=	microgram per cubic meter

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: February 20, 2026	Completed by: Sayward Gohman-Kramer

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- NYSDEC Division of Environmental Remediation Guidance for Data Deliverables and the Development of Data Usability Summary Reports (in DER-10, May 2010)
- EPA Region 2 Data Validation
    - SOP NO. HW-31, Revision 6, Volatile Organic Compounds in Air Contained in Canisters by Method TO-15

This validation was performed under Category B guidelines. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

Project ID	Lab Work Order	Laboratory Report
EE1705007.0028	410-260364-1	Eurofins – Lancaster

Table 1 Sample Listing Summary

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Field QC	ID Corrections
410-260364-1	AI	GC470-BA02-0126	410-260364-2	1/23/2026 8:44		
410-260364-1	AO	GC470-OA01-0126	410-260364-3	1/23/2026 9:00		

Table 1A Sample Test Summary

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
410-260364-1	AI	TO-15	Volatile Organic Compounds by GC/MS	2	N
410-260364-1	AO	TO-15	Volatile Organic Compounds by GC/MS	1	N

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	No. Sample GC470-BA01-0126 did not collect enough sample volume to be analyzed. The laboratory cancelled analysis on this sample upon receipt at the laboratory.
Did coolers arrive at lab between 2 and 6ºC and in good condition as indicated on COC and Receipt Form?	Thermal preservation is not required.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples	No field duplicate associated with this SDG was collected. However, 1 per 20 field QC frequency will be evaluated at end of sampling event.
Case narrative present and complete?	Yes. The air canisters were batched certified to be below the reporting limit for all target analytes.
Any holding time violations?	No.

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Method Blanks Results (Table 2)
- LCS Outside Limits (Table 3)
- CCV/ICV Outside Limits (Table 4)
- Internal Standard Outside Limits (Table 5)
- Reanalysis/Dilution Results (Table 6)

Go to List

Volatile Organic Compounds by Method TO-15	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or field blanks (see Table 2)?	No.
For samples, if results are < 2 times the blank or < 4 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Not applicable.
Is Laboratory QC frequency at least one blank and LCS with each batch?	Yes.
Is LCS within QC criteria (see Table 3)? If out, and the recovery is high with no positive values, then no data qualification is required.	Yes.
Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix (see Table 5)?	Yes.
Is initial calibration for target compounds <30 %RSD or curve fit? (see Table 4)	Yes.
Is the initial calibration verification for target compounds between laboratory limits or 70-130%? (see Table 4)	Yes.
Is continuing calibration for target compounds <30 %D? (see Table 4)	Yes.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	Sample GC470-BA02-0126 was diluted to bring acetone concentrations within the calibration range. The reporting limits have been adjusted accordingly. No qualification was made based on dilutions. No data usability issues were observed.
For TICs are there any system related compounds that should not be reported?	No.

Quantitation Limits and Data Assessment: Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the TO-15 analysis. These results were qualified as estimated (J) by the laboratory.

Summary of Findings
• No data usability issues were observed.

Table 2 - List of Positive Results for Blank Samples
None.

Table 2A - List of Samples Qualified for Method Blank Contamination
None.

Table 3 – List of LCS Recoveries outside Control Limits
None.

Table 3A – List of LCS RPD outside Control Limits
None.

Table 4 – List of ICAL/ICV/CCV recoveries outside Control Limits
None.

Table 5 – Internal Standard Outside Control Limits
None.

Table 6 – Samples that were Re-analyzed/Diluted

Method	Batch	Sample	Laboratory ID	Analyte	Reason
TO-15	763583	GC470-BA02-0126	410-260364-2	Acetone	4x Dilution

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: February 20, 2026	Completed by: Sayward Gohman-Kramer

Acronym List and Table Key:

AI	=	indoor ambient air
AO	=	outdoor ambient air
AS	=	sub slab soil vapor
Abs Diff	=	absolute difference
CCV	=	continuing calibration verification
COC	=	chain of custody
DUSR	=	data usability summary report
EPA	=	Environmental Protection Agency
FD	=	field duplicate
GC/MS	=	gas chromatography / mass spectrometry
ICAL	=	initial calibration
ICV	=	initial calibration verification
LCS	=	laboratory control sample
MB	=	method blank
MDL	=	method detection limit
N	=	normal (field) sample
NC	=	not calculated
ND	=	not detected
NYSDEC	=	New York State Department of Environmental Conservation
PQL	=	practical quantitation limit
QA	=	quality assurance
QC	=	quality control
RPD	=	relative percent difference
RRF	=	relative response factor
RSD	=	relative standard deviation
SDG	=	sample delivery group
TRG	=	target compound
%D	=	percent difference
%RSD	=	percent relative standard deviation
ug/m^3	=	microgram per cubic meter

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: April 17, 2026	Completed by: Sayward Gohman-Kramer

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- NYSDEC Division of Environmental Remediation Guidance for Data Deliverables and the Development of Data Usability Summary Reports (in DER-10, May 2010)
- EPA Region 2 Data Validation
    - SOP NO. HW-31, Revision 6, Volatile Organic Compounds in Air Contained in Canisters by Method TO-15

This validation was performed under Category B guidelines. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

Project ID	Lab Work Order	Laboratory Report
EE1705007.0028	JE31330	SGS North America – Dayton

Table 1 Sample Listing Summary

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Field QC	ID Corrections
JE31330	AS	GC470-SV01-0326	JE31330-1	3/31/2026 14:24		
JE31330	AI	GC470-BA01-0326	JE31330-2	3/31/2026 14:23		
JE31330	AI	GC470-BA02-0326	JE31330-3	3/31/2026 14:23		
JE31330	AO	GC470-OA01-0326	JE31330-4	3/31/2026 14:29		

Table 1A Sample Test Summary

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
JE31330	AS	TO-15	Volatile Organic Compounds by GC/MS	1	N
JE31330	AI	TO-15	Volatile Organic Compounds by GC/MS	2	N
JE31330	AO	TO-15	Volatile Organic Compounds by GC/MS	1	N

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	Yes.
Did coolers arrive at lab between 2 and 6°C and in good condition as indicated on COC and Receipt Form?	Thermal preservation is not required.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples	No field duplicate associated with this SDG was collected. However, 1 per 20 field QC frequency will be evaluated at end of sampling event.
Case narrative present and complete?	Yes. The air canisters were batched certified to be below the reporting limit for all target analytes.
Any holding time violations?	No.

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Method Blanks Results (Table 2)
- Surrogates Outside Limits (Table 3)
- LCS Outside Limits (Table 4)
- CCV/ICV Outside Limits (Table 5)
- Internal Standard Outside Limits (Table 6)
- Reanalysis/Dilution Results (Table 7)

Go to List

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: April 17, 2026	Completed by: Sayward Gohman-Kramer

Volatile Organic Compounds by Method TO-15	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or field blanks (see Table 2)?	No.
For samples, if results are < 2 times the blank or < 4 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Not applicable.
Are surrogates for method blanks, LCS, and samples within limits? (see Table 3)	Yes.
Is Laboratory QC frequency at least one blank and LCS with each batch?	Yes.
Is LCS within QC criteria (see Table 4)? If out, and the recovery is high with no positive values, then no data qualification is required.	No. Bromoform and dibromochloromethane were recovered outside acceptance criteria in LCSs V7W719-BS1 and V7W719-BSD1. All samples were non-detect for these compounds; therefore, no qualifications were made.
Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix (see Table 6)?	Yes.
Is initial calibration for target compounds <30 %RSD or curve fit? (see Table 5)	No. Bromoform exhibited high %RSD in calibration curve V7W709-ICC709. All associated samples were non-detect; therefore, no qualification was made.
Is the initial calibration verification for target compounds between laboratory limits or 70-130%? (see Table 5)	Yes.
Is continuing calibration for target compounds <30 %D? (see Table 5)	No. Bromoform and dibromochloromethane were recovered outside the acceptance criteria in CCV V7W719-CC709. All samples were non-detect for these compounds; therefore, results were UJ qualified.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	All samples were diluted to bring concentrations within the calibration range. The reporting limits have been adjusted accordingly. No qualification was made based on dilutions. No data usability issues were observed.
For TICs are there any system related compounds that should not be reported?	No.

Quantitation Limits and Data Assessment: Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the TO-15 analysis. These results were qualified as estimated (J) by the laboratory.

Data Validation Qualifiers Definitions:

UJ - The analyte was not detected above the reported sample quantitation limit. The analyte QC analysis fails outside the primary acceptance limits. The "UJ" qualified data are not excluded from further review or consideration. The 'UJ' qualified data may be biased low.

Summary of Findings
• Bromoform and dibromochloromethane were UJ qualified in all samples due to poor CCV recovery.

Table 2 - List of Positive Results for Blank Samples
None.

Table 2A - List of Samples Qualified for Method Blank Contamination
None.

Table 3 – List of Samples with Surrogates outside Control Limits
None.

Table 4 – List of LCS Recoveries outside Control Limits

Method	Sample Name	Sample Type	Analyte	LCS(D) R%	Low Limit	High Limit	Associated Samples	Qualifier
TO-15	V7W718-BS1 V7W718-BSD1	LCS	Bromoform	131	70	130	All Samples	None – High and ND
			Dibromochloromethane	138 137	70	130		None – High and ND

Table 4A – List of LCS RPD outside Control Limits
None.

Table 5 – List of ICAL/ICV/CCV recoveries outside Control Limits

Method	Sample Name	Sample Type	Analyte	RRF, %RSD or %D	RRF, %RSD or %D Limit	Associated Samples	Qualifier
TO-15	V7W709-ICC709	CAL	Bromoform	34.31	30	All Samples	None – ND
TO-15	V7W719-CC709	CCV	Dibromochloromethane	-38.5	30	All Samples	UJ
			Bromoform	-31.5	30		UJ

Table 6 – Internal Standard Outside Control Limits
None.

Table 7 – Samples that were Re-analyzed/Diluted

Method	Batch	Sample	Laboratory ID	Analyte	Reason
TO-15	V7W719	GC470-BA01-0326	JE31330-2	All Analytes	1.58x Dilution

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: April 17, 2026	Completed by: Sayward Gohman-Kramer

Acronym List and Table Key:

AI	=	indoor ambient air
AO	=	outdoor ambient air
AS	=	sub slab soil vapor
Abs Diff	=	absolute difference
CCV	=	continuing calibration verification
COC	=	chain of custody
DUSR	=	data usability summary report
EPA	=	Environmental Protection Agency
FD	=	field duplicate
GC/MS	=	gas chromatography / mass spectrometry
ICAL	=	initial calibration
ICV	=	initial calibration verification
LCS	=	laboratory control sample
MB	=	method blank
MDL	=	method detection limit
N	=	normal (field) sample
NC	=	not calculated
ND	=	not detected
NYSDEC	=	New York State Department of Environmental Conservation
PQL	=	practical quantitation limit
QA	=	quality assurance
QC	=	quality control
RPD	=	relative percent difference
RRF	=	relative response factor
RSD	=	relative standard deviation
SDG	=	sample delivery group
TRG	=	target compound
%D	=	percent difference
%RSD	=	percent relative standard deviation
ug/m^3	=	microgram per cubic meter

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: December 24, 2025	Prepared by: Sayward Gohman-Kramer Reviewed by:

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- NYSDEC Division of Environmental Remediation Guidance for Data Deliverables and the Development of Data Usability Summary Reports (in DER-10, May 2010)
- EPA Region 2 Data Validation
    - SOP NO. HW-31, Revision 6, Volatile Organic Compounds in Air Contained in Canisters by Method TO-15

This validation was performed under Category B guidelines. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

Project ID	Lab Work Order	Laboratory Report
EE1705007.0028	410-256267-1	Eurofins – Lancaster

Table 1 Sample Listing Summary

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Field QC	ID Corrections
410-256267-1	AS	GC471-SV01-1125	410-256267-1	12/3/2025 9:59		
410-256267-1	AI	GC471-BA01-1125	410-256267-2	12/3/2025 9:59		
410-256267-1	AI	GC471-FA01-1125	410-256267-3	12/3/2025 10:00		

Table 1A Sample Test Summary

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
410-256267-1	AS	TO-15	Volatile Organic Compounds by GC/MS	1	N
410-256267-1	AI	TO-15	Volatile Organic Compounds by GC/MS	2	N

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: December 24, 2025	Prepared by: Sayward Gohman-Kramer Reviewed by:

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	No. Sample GC471-OA01-1225 did not collect enough sample to be analyzed by the laboratory. Analysis was cancelled by the lab on 12/11. Canister labels included incorrect sample names. The laboratory logged samples in using sample names listed on the COC.
Did coolers arrive at lab between 2 and 6°C and in good condition as indicated on COC and Receipt Form?	Thermal preservation is not required.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples	No field duplicate associated with this SDG was collected. However, 1 per 20 field QC frequency will be evaluated at end of sampling event.
Case narrative present and complete?	Yes. The air canisters were batched certified to be below the reporting limit for all target analytes.
Any holding time violations?	No.

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Method Blanks Results (Table 2)
- LCS Outside Limits (Table 3)
- CCV/ICV Outside Limits (Table 4)
- Internal Standard Outside Limits (Table 5)
- Reanalysis/Dilution Results (Table 6)

Go to List

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: December 24, 2025	Prepared by: Sayward Gohman-Kramer Reviewed by:

Volatile Organic Compounds by Method TO-15	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or field blanks (see Table 2)?	No.
For samples, if results are < 2 times the blank or < 4 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Not applicable.
Is Laboratory QC frequency at least one blank and LCS with each batch?	Yes.
Is LCS within QC criteria (see Table 3)? If out, and the recovery is high with no positive values, then no data qualification is required.	Yes.
Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix (see Table 5)?	Yes.
Is initial calibration for target compounds <30 %RSD or curve fit? (see Table 4)	Yes.
Is the initial calibration verification for target compounds between laboratory limits or 70-130%? (see Table 4)	Yes.
Is continuing calibration for target compounds <30 %D? (see Table 4)	Yes.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	Sample GC471-SV01-1225 was diluted to bring acetone concentrations within the calibration range. The reporting limits have been adjusted accordingly. No qualification was made based on dilutions. No data usability issues were observed.
For TICs are there any system related compounds that should not be reported?	No.

Quantitation Limits and Data Assessment: Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the TO-15 analysis. These results were qualified as estimated (J) by the laboratory.

Summary of Findings
• No data usability issues were observed.

Table 2 - List of Positive Results for Blank Samples
None.

Table 2A - List of Samples Qualified for Method Blank Contamination
None.

Table 3 – List of LCS Recoveries outside Control Limits
None.

Table 3A – List of LCS RPD outside Control Limits
None.

Table 4 – List of ICAL/ICV/CCV recoveries outside Control Limits
None.

Table 5 – Internal Standard Outside Control Limits
None.

Table 6 – Samples that were Re-analyzed/Diluted

Method	Batch	Sample	Laboratory ID	Analyte	Reason
TO-15	746591	GC471-SV01-1225	410-256267-1	Acetone	2x Dilution

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: December 24, 2025	Prepared by: Sayward Gohman-Kramer Reviewed by:

Acronym List and Table Key:

AI	=	indoor ambient air
AO	=	outdoor ambient air
AS	=	sub slab soil vapor
Abs Diff	=	absolute difference
CCV	=	continuing calibration verification
COC	=	chain of custody
DUSR	=	data usability summary report
EPA	=	Environmental Protection Agency
FD	=	field duplicate
GC/MS	=	gas chromatography / mass spectrometry
ICAL	=	initial calibration
ICV	=	initial calibration verification
LCS	=	laboratory control sample
MB	=	method blank
MDL	=	method detection limit
N	=	normal (field) sample
NC	=	not calculated
ND	=	not detected
NYSDEC	=	New York State Department of Environmental Conservation
PQL	=	practical quantitation limit
QA	=	quality assurance
QC	=	quality control
RPD	=	relative percent difference
RRF	=	relative response factor
RSD	=	relative standard deviation
SDG	=	sample delivery group
TRG	=	target compound
%D	=	percent difference
%RSD	=	percent relative standard deviation
ug/m^3	=	microgram per cubic meter

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: March 20, 2026	Completed by: Sayward Gohman-Kramer

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- NYSDEC Division of Environmental Remediation Guidance for Data Deliverables and the Development of Data Usability Summary Reports (in DER-10, May 2010)
- EPA Region 2 Data Validation
    - SOP NO. HW-31, Revision 6, Volatile Organic Compounds in Air Contained in Canisters by Method TO-15

This validation was performed under Category B guidelines. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

Project ID	Lab Work Order	Laboratory Report
EE1705007.0028	26B1096	York Analytical Laboratories – Richmond Hill, NY

Table 1 Sample Listing Summary

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Field QC	ID Corrections
26B1096	AI	GC472-BA01-0226	26B1096-01	2/26/2026 12:35		
26B1096	AI	GC472-BA02-0226	26B1096-02	2/26/2026 12:34		
26B1096	AO	GC472-OA01-0226	26B1096-03	2/26/2026 12:33		

Table 1A Sample Test Summary

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
26B1096	AI	TO-15	Volatile Organic Compounds by GC/MS	2	N
26B1096	AO	TO-15	Volatile Organic Compounds by GC/MS	1	N

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	Yes.
Did coolers arrive at lab between 2 and 6°C and in good condition as indicated on COC and Receipt Form?	Thermal preservation is not required.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples	No field duplicate associated with this SDG was collected. However, 1 per 20 field QC frequency will be evaluated at end of sampling event.
Case narrative present and complete?	Yes. The air canisters were batched certified to be below the reporting limit for all target analytes.
Any holding time violations?	No.

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Method Blanks Results (Table 2)
- LCS Outside Limits (Table 3)
- CCV/ICV Outside Limits (Table 4)
- Internal Standard Outside Limits (Table 5)
- Reanalysis/Dilution Results (Table 6)

Go to List

Volatile Organic Compounds by Method TO-15	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or field blanks (see Table 2)?	No. Isopropanol was detected below the reporting limit in method blank BC60716-BLK1.
For samples, if results are < 2 times the blank or < 4 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Isopropanol detections were greater than 2x the blank contamination; therefore, no qualification was made.
Is Laboratory QC frequency at least one blank and LCS with each batch?	Yes.
Is LCS within QC criteria (see Table 3)? If out, and the recovery is high with no positive values, then no data qualification is required.	Yes.
Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix (see Table 5)?	Yes.
Is initial calibration for target compounds <30 %RSD or curve fit? (see Table 4)	Yes.
Is the initial calibration verification for target compounds between laboratory limits or 70-130%? (see Table 4)	Yes.
Is continuing calibration for target compounds <30 %D? (see Table 4)	Yes.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	All samples were diluted to bring concentrations within the calibration range. The reporting limits have been adjusted accordingly. No qualification was made based on dilutions. No data usability issues were observed. Isopropanol was recovered above the calibration range for sample GC472-BA01-0226 and GC472-BA02-0226. The laboratory qualified this as E for estimated. Samples were qualified J as estimated.
For TICs are there any system related compounds that should not be reported?	No.

Quantitation Limits and Data Assessment: Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the TO-15 analysis. These results were qualified as estimated (J) by the laboratory.

Data Validation Qualifiers Definitions:

J – The analyte QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. The 'J' qualified data may be biased high (+) or low (-) or the direction of the bias may be indeterminable.

Summary of Findings
• Isopropanol was J qualified in samples GC472-BA01-0226 and GC472-BA02-0226 due to exceeding calibration range.

Table 2 - List of Positive Results for Blank Samples

Method	Sample Name	Sample Type	Analyte	Result	Qualifier	Units	MDL	PQL
TO-15	BC60716-BLK1	MB	Isopropanol	0.246	J	ug/m3	0.059	1.47

Table 2A - List of Samples Qualified for Method Blank Contamination
None.

Table 3 – List of LCS Recoveries outside Control Limits
None.

Table 3A – List of LCS RPD outside Control Limits
None.

Table 4 – List of ICAL/ICV/CCV recoveries outside Control Limits
None.

Table 5 – Internal Standard Outside Control Limits
None.

Table 6 – Samples that were Re-analyzed/Diluted

Method	Batch	Sample	Laboratory ID	Analyte	Reason
TO-15	BC60716	GC472-BA01-0226	26B1096-01	All Analytes	0.93x Dilution
TO-15	BC60716	GC472-BA02-0226	26B1096-02	All Analytes	1.03x Dilution
TO-15	BC60716	GC472-OA01-0226	26B1096-03	All Analytes	0.87x Dilution

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: March 20, 2026	Completed by: Sayward Gohman-Kramer

Acronym List and Table Key:

AI	=	indoor ambient air
AO	=	outdoor ambient air
AS	=	sub slab soil vapor
Abs Diff	=	absolute difference
CCV	=	continuing calibration verification
COC	=	chain of custody
DUSR	=	data usability summary report
EPA	=	Environmental Protection Agency
FD	=	field duplicate
GC/MS	=	gas chromatography / mass spectrometry
ICAL	=	initial calibration
ICV	=	initial calibration verification
LCS	=	laboratory control sample
MB	=	method blank
MDL	=	method detection limit
N	=	normal (field) sample
NC	=	not calculated
ND	=	not detected
NYSDEC	=	New York State Department of Environmental Conservation
PQL	=	practical quantitation limit
QA	=	quality assurance
QC	=	quality control
RPD	=	relative percent difference
RRF	=	relative response factor
RSD	=	relative standard deviation
SDG	=	sample delivery group
TRG	=	target compound
%D	=	percent difference
%RSD	=	percent relative standard deviation
ug/m^3	=	microgram per cubic meter

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: February 24, 2026	Completed by: Sayward Gohman-Kramer

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- NYSDEC Division of Environmental Remediation Guidance for Data Deliverables and the Development of Data Usability Summary Reports (in DER-10, May 2010)
- EPA Region 2 Data Validation
    - SOP NO. HW-31, Revision 6, Volatile Organic Compounds in Air Contained in Canisters by Method TO-15

This validation was performed under Category B guidelines. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

Project ID	Lab Work Order	Laboratory Report
EE1705007.0028	26B0304	York Analytical Laboratories – Richmond Hill, NY

Table 1 Sample Listing Summary

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Field QC	ID Corrections
26B0304	AS	GC473-SV01-0226	26B0304-01	2/4/2026 8:35		
26B0304	AI	GC473-BA01-0226	26B0304-02	2/4/2026 8:35		
26B0304	AO	GC473-OA01-0226	26B0304-04	2/4/2026 8:32		

Table 1A Sample Test Summary

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
26B0304	AS	TO-15	Volatile Organic Compounds by GC/MS	1	N
26B0304	AI	TO-15	Volatile Organic Compounds by GC/MS	1	N
26B0304	AO	TO-15	Volatile Organic Compounds by GC/MS	1	N

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	No. Sample GC473-FA01-0226 did not collect enough sample volume for the laboratory to analyze. The laboratory cancelled analysis upon receipt at the laboratory.
Did coolers arrive at lab between 2 and 6ºC and in good condition as indicated on COC and Receipt Form?	Thermal preservation is not required.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples	No field duplicate associated with this SDG was collected. However, 1 per 20 field QC frequency will be evaluated at end of sampling event.
Case narrative present and complete?	Yes. The air canisters were batched certified to be below the reporting limit for all target analytes.
Any holding time violations?	No.

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Method Blanks Results (Table 2)
- LCS Outside Limits (Table 3)
- CCV/ICV Outside Limits (Table 4)
- Internal Standard Outside Limits (Table 5)
- Reanalysis/Dilution Results (Table 6)

Go to List

Volatile Organic Compounds by Method TO-15	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or field blanks (see Table 2)?	Yes. Isopropanol was detected below the reporting limit in method blank BB60850-BLK1.
For samples, if results are < 2 times the blank or < 4 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Isopropanol detections were greater than 2x the blank contamination; therefore, no qualification was made.
Is Laboratory QC frequency at least one blank and LCS with each batch?	Yes.
Is LCS within QC criteria (see Table 3)? If out, and the recovery is high with no positive values, then no data qualification is required.	No. Carbon tetrachloride and hexachlorobutadiene were recovered below acceptance criteria in LCS BB60850-LCS. All samples were non-detect for these compounds; therefore, results were UJ qualified as estimated non-detect.
Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix (see Table 5)?	Yes.
Is initial calibration for target compounds <30 %RSD or curve fit? (see Table 4)	No. 1,2,4-Trichlorobenzene and benzyl chloride exhibited high %RSD in calibration curve SL50019. All associated samples were non-detect; therefore, no qualifications were made.
Is the initial calibration verification for target compounds between laboratory limits or 70-130%? (see Table 4)	Yes.
Is continuing calibration for target compounds <30 %D? (see Table 4)	No. Carbon tetrachloride and hexachlorobutadiene were recovered outside the acceptance criteria in CCV S6B1613-CCV1. All samples were non-detect for these compounds; therefore, results were UJ qualified as estimated non-detect.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	All samples were diluted to bring concentrations within the calibration range. The reporting limits have been adjusted accordingly. No qualification was made based on dilutions. No data usability issues were observed.
For TICs are there any system related compounds that should not be reported?	No.

Quantitation Limits and Data Assessment: Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the TO-15 analysis. These results were qualified as estimated (J) by the laboratory.

Data Validation Qualifiers Definitions:

J – The analyte QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. The 'J' qualified data may be biased high (+) or low (-) or the direction of the bias may be indeterminable.

UJ - The analyte was not detected above the reported sample quantitation limit. The analyte QC analysis fails outside the primary acceptance limits. The "UJ" qualified data are not excluded from further review or consideration. The 'UJ' qualified data may be biased low.

U – The analyte was analyzed for, but due to blank contamination was flagged as non-detect (U). The result is usable as a non-detect.

Summary of Findings
• Carbon tetrachloride and hexachlorobutadiene were UJ qualified in all samples due to low LCS recovery.

Table 2 - List of Positive Results for Blank Samples

Method	Sample Name	Sample Type	Analyte	Result	Qualifier	Units	MDL	PQL
TO-15	BB60850-BLK1	MB	Isopropanol	0.172	J	ug/m3	0.059	1.47

Table 2A - List of Samples Qualified for Method Blank Contamination
None.

Table 3 – List of LCS Recoveries outside Control Limits

Method	Sample Name	Sample Type	Analyte	LCS(D) R%	Low Limit	High Limit	Associated Samples	Qualifier
TO-15	BB60850-BS1	LCS	Carbon tetrachloride	40.8	70	130	All Samples	UJ
			Hexachlorobutadiene	45.7	70	130		UJ

Table 3A – List of LCS RPD outside Control Limits
None.

Table 4 – List of ICAL/ICV/CCV recoveries outside Control Limits

Method	Sample Name	Sample Type	Analyte	RRF, %RSD or %D	RRF, %RSD or %D Limit	Associated Samples	Qualifier
TO-15	SL50019	CAL	1,2,4-Trichlorobenzene	33.3	30	All Samples	None - ND
			Benzyl Chloride	37.6	30		None - ND
TO-15	S6B1613-CCV1	CCV	Carbon tetrachloride	-61.3	30	All Samples	UJ
			Hexachlorobutadiene	-48.4	30		UJ

Table 5 – Internal Standard Outside Control Limits
None.

Table 6 – Samples that were Re-analyzed/Diluted

Method	Batch	Sample	Laboratory ID	Analyte	Reason
TO-15	BB60850	GC473-SV01-0226	26B0304-01	All Analytes	1.72x Dilution
TO-15	BB60850	GC473-BA01-0226	26B0304-02	All Analytes	0.98x Dilution
TO-15	BB60850	GC473-OA01-0226	26B0304-04	All Analytes	0.78x Dilution

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: February 24, 2026	Completed by: Sayward Gohman-Kramer

Acronym List and Table Key:

AI	=	indoor ambient air
AO	=	outdoor ambient air
AS	=	sub slab soil vapor
Abs Diff	=	absolute difference
CCV	=	continuing calibration verification
COC	=	chain of custody
DUSR	=	data usability summary report
EPA	=	Environmental Protection Agency
FD	=	field duplicate
GC/MS	=	gas chromatography / mass spectrometry
ICAL	=	initial calibration
ICV	=	initial calibration verification
LCS	=	laboratory control sample
MB	=	method blank
MDL	=	method detection limit
N	=	normal (field) sample
NC	=	not calculated
ND	=	not detected
NYSDEC	=	New York State Department of Environmental Conservation
PQL	=	practical quantitation limit
QA	=	quality assurance
QC	=	quality control
RPD	=	relative percent difference
RRF	=	relative response factor
RSD	=	relative standard deviation
SDG	=	sample delivery group
TRG	=	target compound
%D	=	percent difference
%RSD	=	percent relative standard deviation
ug/m^3	=	microgram per cubic meter

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: March 24, 2026	Completed by: Sayward Gohman-Kramer

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- NYSDEC Division of Environmental Remediation Guidance for Data Deliverables and the Development of Data Usability Summary Reports (in DER-10, May 2010)
- EPA Region 2 Data Validation
    - SOP NO. HW-31, Revision 6, Volatile Organic Compounds in Air Contained in Canisters by Method TO-15

This validation was performed under Category B guidelines. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

Project ID	Lab Work Order	Laboratory Report
EE1705007.0028	410-269023-1	Eurofins – Lancaster

Table 1 Sample Listing Summary

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Field QC	ID Corrections
410-269023-1	AI	GC476-FA01-0126	410-269023-1	3/6/2026 10:32		
410-269023-1	AI	GC476-FA02-0126	410-269023-2	3/6/2026 10:32		
410-269023-1	AI	GC476-FA03-0126	410-269023-3	3/6/2026 10:32		
410-269023-1	AO	GC476-OA01-0126	410-269023-4	3/6/2026 10:30		

Table 1A Sample Test Summary

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
410-269023-1	AI	TO-15	Volatile Organic Compounds by GC/MS	3	N
410-269023-1	AO	TO-15	Volatile Organic Compounds by GC/MS	1	N

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	Yes.
Did coolers arrive at lab between 2 and 6°C and in good condition as indicated on COC and Receipt Form?	Thermal preservation is not required.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples	No field duplicate associated with this SDG was collected. However, 1 per 20 field QC frequency will be evaluated at end of sampling event.
Case narrative present and complete?	Yes. The air canisters were batched certified to be below the reporting limit for all target analytes.
Any holding time violations?	No.

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Method Blanks Results (Table 2)
- LCS Outside Limits (Table 3)
- CCV/ICV Outside Limits (Table 4)
- Internal Standard Outside Limits (Table 5)
- Reanalysis/Dilution Results (Table 6)

Go to List

Volatile Organic Compounds by Method TO-15	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or field blanks (see Table 2)?	No.
For samples, if results are < 2 times the blank or < 4 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Not applicable.
Is Laboratory QC frequency at least one blank and LCS with each batch?	Yes.
Is LCS within QC criteria (see Table 3)? If out, and the recovery is high with no positive values, then no data qualification is required.	Yes.
Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix (see Table 5)?	Yes.
Is initial calibration for target compounds <30 %RSD or curve fit? (see Table 4)	No. Bromomethane exhibited high %RSD in calibration curve 82965. Associated sample non-detects did not require qualification. Bromomethane was detected in sample GC476-FA03-0326; therefore, result was J qualified.
Is the initial calibration verification for target compounds between laboratory limits or 70-130%? (see Table 4)	Yes.
Is continuing calibration for target compounds <30 %D? (see Table 4)	Yes.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	Sample GC476-FA03-0326 was diluted to bring isopropanol concentration within the calibration range. The reporting limits have been adjusted accordingly. No qualification was made based on dilutions. No data usability issues were observed.
For TICs are there any system related compounds that should not be reported?	No.

Quantitation Limits and Data Assessment: Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the TO-15 analysis. These results were qualified as estimated (J) by the laboratory.

Data Validation Qualifiers Definitions:

J – The analyte QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. The 'J' qualified data may be biased high (+) or low (-) or the direction of the bias may be indeterminable.

Summary of Findings
• Bromomethane was J qualified in sample GC476-FA03-0326 due to poor initial calibration.

Table 2 - List of Positive Results for Blank Samples
None.

Table 2A - List of Samples Qualified for Method Blank Contamination
None.

Table 3 – List of LCS Recoveries outside Control Limits
None.

Table 3A – List of LCS RPD outside Control Limits
None.

Table 4 – List of ICAL/ICV/CCV recoveries outside Control Limits

Method	Sample Name	Sample Type	Analyte	RRF, %RSD or %D	RRF, %RSD or %D Limit	Associated Samples	Qualifier
TO-15	82965	CAL	Bromomethane	31.5	30	GC476-FA01-0126 GC476-FA02-0126 GC476-OA01-0126	None
						GC476-FA03-0126	J

Table 5 – Internal Standard Outside Control Limits
None.

Table 6 – Samples that were Re-analyzed/Diluted

Method	Batch	Sample	Laboratory ID	Analyte	Reason
TO-15	780710	GC476-FA03-0126	410-269023-3	Isopropanol	10x Dilution

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: March 24, 2026	Completed by: Sayward Gohman-Kramer

Acronym List and Table Key:

AI	=	indoor ambient air
AO	=	outdoor ambient air
AS	=	sub slab soil vapor
Abs Diff	=	absolute difference
CCV	=	continuing calibration verification
COC	=	chain of custody
DUSR	=	data usability summary report
EPA	=	Environmental Protection Agency
FD	=	field duplicate
GC/MS	=	gas chromatography / mass spectrometry
ICAL	=	initial calibration
ICV	=	initial calibration verification
LCS	=	laboratory control sample
MB	=	method blank
MDL	=	method detection limit
N	=	normal (field) sample
NC	=	not calculated
ND	=	not detected
NYSDEC	=	New York State Department of Environmental Conservation
PQL	=	practical quantitation limit
QA	=	quality assurance
QC	=	quality control
RPD	=	relative percent difference
RRF	=	relative response factor
RSD	=	relative standard deviation
SDG	=	sample delivery group
TRG	=	target compound
%D	=	percent difference
%RSD	=	percent relative standard deviation
ug/m^3	=	microgram per cubic meter

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: February 6, 2026	Completed by: Sayward Gohman-Kramer

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- NYSDEC Division of Environmental Remediation Guidance for Data Deliverables and the Development of Data Usability Summary Reports (in DER-10, May 2010)
- EPA Region 2 Data Validation
    - SOP NO. HW-31, Revision 6, Volatile Organic Compounds in Air Contained in Canisters by Method TO-15

This validation was performed under Category B guidelines. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

Project ID	Lab Work Order	Laboratory Report
EE1705007.0028	26A0529	York Analytical Laboratories – Richmond Hill, NY

Table 1 Sample Listing Summary

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Field QC	ID Corrections
26A0529	AS	GC477-SV01-0126	26A0529-01	1/6/2026 8:29		
26A0529	AI	GC477-BA01-0126	26A0529-02	1/6/2026 8:29		
26A0529	AI	GC477-FA01-0126	26A0529-03	1/6/2026 8:27		
26A0529	AO	GC477-OA01-0126	26A0529-04	1/6/2026 8:30		

Table 1A Sample Test Summary

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
26A0529	AS	TO-15	Volatile Organic Compounds by GC/MS	1	N
26A0529	AI	TO-15	Volatile Organic Compounds by GC/MS	2	N
26A0529	AO	TO-15	Volatile Organic Compounds by GC/MS	1	N

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	Yes.
Did coolers arrive at lab between 2 and 6°C and in good condition as indicated on COC and Receipt Form?	Thermal preservation is not required.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples	No field duplicate associated with this SDG was collected. However, 1 per 20 field QC frequency will be evaluated at end of sampling event.
Case narrative present and complete?	Yes. The air canisters were batched certified to be below the reporting limit for all target analytes.
Any holding time violations?	No.

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Method Blanks Results (Table 2)
- LCS Outside Limits (Table 3)
- CCV/ICV Outside Limits (Table 4)
- Internal Standard Outside Limits (Table 5)
- Reanalysis/Dilution Results (Table 6)

Go to List

Volatile Organic Compounds by Method TO-15	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or field blanks (see Table 2)?	Yes. Isopropanol and tetrachloroethene were detected below the reporting limit in method blank BA61301-BLK1.
For samples, if results are < 2 times the blank or < 4 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Isopropanol detections were greater than 2x the blank contamination; therefore, no qualification was made. Tetrachloroethene was detected greater than 2x the blank contamination in sample GC477-SV01-0126 and was non-detect in samples GC477-BA01-0126 and GC477-OA01-0126; therefore, no qualifications were made. Tetrachloroethene was detected less than 2x the blank contamination in sample GC477-FA01-0126; therefore, result was qualified U and reported at the sample concentration.
Is Laboratory QC frequency at least one blank and LCS with each batch?	Yes.
Is LCS within QC criteria (see Table 3)? If out, and the recovery is high with no positive values, then no data qualification is required.	Yes.
Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix (see Table 5)?	Yes.
Is initial calibration for target compounds <30 %RSD or curve fit? (see Table 4)	No. 1,2,4-Trichloroethene and benzyl chloride exhibited high %RSD in calibration curve SL50019. All associated samples were non-detect; therefore, no qualification was made.
Is the initial calibration verification for target compounds between laboratory limits or 70-130%? (see Table 4)	Yes.
Is continuing calibration for target compounds <30 %D? (see Table 4)	Yes.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	All samples were diluted to bring concentrations within the calibration range. The reporting limits have been adjusted accordingly. No qualification was made based on dilutions. No data usability issues were observed. Isopropanol was recovered above the calibration range for sample GC477-BA01-0126. The laboratory qualified this as E for estimated. Samples were qualified J as estimated.
For TICs are there any system related compounds that should not be reported?	No.

Quantitation Limits and Data Assessment: Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the TO-15 analysis. These results were qualified as estimated (J) by the laboratory.

Data Validation Qualifiers Definitions:

J – The analyte QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. The 'J' qualified data may be biased high (+) or low (-) or the direction of the bias may be indeterminable.

U – The analyte was analyzed for, but due to blank contamination was flagged as non-detect (U). The result is usable as a non-detect.

Summary of Findings

- Tetrachloroethene was U qualified in sample GC477-FA01-0126 due to method blank contamination.
- Isopropanol was J qualified in sample GC477-BA01-0126 due to exceeding calibration range.

Table 2 - List of Positive Results for Blank Samples

Method	Sample Name	Sample Type	Analyte	Result	Qualifier	Units	MDL	PQL
TO-15	BA61301-BLK1	MB	Isopropanol	0.221	J	ug/m3	0.059	1.47
TO-15	BA61301-BLK1	MB	Tetrachloroethene	0.407	J	ug/m3	0.161	0.678

Table 2A - List of Samples Qualified for Method Blank Contamination

Method	Blank Sample	Blank Type	Analyte	Blank Result	Sample Result	Lab Qualifier	Units	MDL	PQL	Affected Sample	Qualifier
TO-15	BA61301-BLK1	MB	Tetrachloroethene	0.407	0.700	D	ug/m3	0.119	0.5	GC477-FA01-0126	U

Table 3 – List of LCS Recoveries outside Control Limits
None.

Table 3A – List of LCS RPD outside Control Limits
None.

Table 4 – List of ICAL/ICV/CCV recoveries outside Control Limits

Method	Sample Name	Sample Type	Analyte	RRF, %RSD or %D	RRF, %RSD or %D Limit	Associated Samples	Qualifier
TO-15	SL50019	ICAL	1,2,4-Trichlorobenzene	33.3	30	All Samples	None - ND
			Benzyl Chloride	37.6	30		None - ND

Table 5 – Internal Standard Outside Control Limits
None.

Table 6 – Samples that were Re-analyzed/Diluted

Method	Batch	Sample	Laboratory ID	Analyte	Reason
TO-15	BA61031	GC477-SV01-0126	26A0529-01	All Analytes	1.29x Dilution
TO-15	BA61110		26A0529-01 RE1	Acetone	2.59x Dilution
TO-15	BA61031	GC477-BA01-0126	26A0529-02	All Analytes	0.93x Dilution
TO-15	BA61031	GC477-FA01-0126	26A0529-03	All Analytes	0.74x Dilution
TO-15	BA61031	GC477-OA01-0126	26A0529-04	All Analytes	0.82x Dilution

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: February 6, 2026	Completed by: Sayward Gohman-Kramer

Acronym List and Table Key:

AI	=	indoor ambient air
AO	=	outdoor ambient air
AS	=	sub slab soil vapor
Abs Diff	=	absolute difference
CCV	=	continuing calibration verification
COC	=	chain of custody
DUSR	=	data usability summary report
EPA	=	Environmental Protection Agency
FD	=	field duplicate
GC/MS	=	gas chromatography / mass spectrometry
ICAL	=	initial calibration
ICV	=	initial calibration verification
LCS	=	laboratory control sample
MB	=	method blank
MDL	=	method detection limit
N	=	normal (field) sample
NC	=	not calculated
ND	=	not detected
NYSDEC	=	New York State Department of Environmental Conservation
PQL	=	practical quantitation limit
QA	=	quality assurance
QC	=	quality control
RPD	=	relative percent difference
RRF	=	relative response factor
RSD	=	relative standard deviation
SDG	=	sample delivery group
TRG	=	target compound
%D	=	percent difference
%RSD	=	percent relative standard deviation
ug/m^3	=	microgram per cubic meter

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: February 20, 2026	Completed by: Sayward Gohman-Kramer

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- NYSDEC Division of Environmental Remediation Guidance for Data Deliverables and the Development of Data Usability Summary Reports (in DER-10, May 2010)
- EPA Region 2 Data Validation
    - SOP NO. HW-31, Revision 6, Volatile Organic Compounds in Air Contained in Canisters by Method TO-15

This validation was performed under Category B guidelines. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

Project ID	Lab Work Order	Laboratory Report
EE1705007.0028	410-262882-1	Eurofins – Lancaster

Table 1 Sample Listing Summary

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Field QC	ID Corrections
410-262882-1	AS	GC480-SV01-0226	410-262882-1	1/22/2026 11:14		
410-262882-1	AS	GC480-SV02-0226	410-262882-2	1/22/2026 11:01		
410-262882-1	AS	GC480-SV03-0226	410-262882-3	1/22/2026 11:04		
410-262882-1	AI	GC480-BA01-0226	410-262882-5	1/22/2026 11:00		
410-262882-1	AI	GC480-BA02-0226	410-262882-6	1/22/2026 11:14		
410-262882-1	AI	GC480-BA03-0226	410-262882-7	1/22/2026 11:04		
410-262882-1	AI	GC480-BA04-0226	410-262882-8	1/22/2026 11:06		
410-262882-1	AI	GC480-FA01-0226	410-262882-9	1/22/2026 11:29		
410-262882-1	AI	GC480-FA02-0226	410-262882-10	1/22/2026 11:30		
410-262882-1	AI	GC480-FA03-0226	410-262882-11	1/22/2026 11:28		
410-262882-1	AO	GC480-OA01-0226	410-262882-12	1/22/2026 11:34		

Table 1A Sample Test Summary

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
410-262882-1	AS	TO-15	Volatile Organic Compounds by GC/MS	3	N
410-262882-1	AI	TO-15	Volatile Organic Compounds by GC/MS	7	N
410-262882-1	AO	TO-15	Volatile Organic Compounds by GC/MS	1	N

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	No. Sample GC480-SV04-0226 did not collect enough volume for the laboratory to analyze the sample.
Did coolers arrive at lab between 2 and 6°C and in good condition as indicated on COC and Receipt Form?	Thermal preservation is not required.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples	No field duplicate associated with this SDG was collected. However, 1 per 20 field QC frequency will be evaluated at end of sampling event.
Case narrative present and complete?	Yes. The air canisters were batched certified to be below the reporting limit for all target analytes.
Any holding time violations?	No.

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Method Blanks Results (Table 2)
- LCS Outside Limits (Table 3)
- CCV/ICV Outside Limits (Table 4)
- Internal Standard Outside Limits (Table 5)
- Reanalysis/Dilution Results (Table 6)
- Duplicate Results (Table 7)

Go to List

Volatile Organic Compounds by Method TO-15	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or field blanks (see Table 2)?	No.
For samples, if results are < 2 times the blank or < 4 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Not applicable.
Is Laboratory QC frequency at least one blank and LCS with each batch?	Yes.
Is LCS within QC criteria (see Table 3)? If out, and the recovery is high with no positive values, then no data qualification is required.	Yes.
Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix (see Table 5)?	Yes.
Is initial calibration for target compounds <30 %RSD or curve fit? (see Table 4)	No. Hexachlorobutadiene exhibited high %RSD in calibration curve 81000. Sample GC480-OA01-0126 was non-detect; therefore, no qualification was made.
Is the initial calibration verification for target compounds between laboratory limits or 70-130%? (see Table 4)	Yes.
Is continuing calibration for target compounds <30 %D? (see Table 4)	Yes. Isopropanol was recovered above acceptance criteria in CCV 410-761239/3. Associated sample detections were J qualified as estimated.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	Several samples were diluted to bring concentrations within the calibration range. The reporting limits have been adjusted accordingly. No qualification was made based on dilutions. No data usability issues were observed.
For TICs are there any system related compounds that should not be reported?	No.
Do duplicate results show good precision for all compounds except TICs (see Table 7)?	Yes.

Quantitation Limits and Data Assessment: Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the TO-15 analysis. These results were qualified as estimated (J) by the laboratory.

Data Validation Qualifiers Definitions:

J – The analyte QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. The 'J' qualified data may be biased high (+) or low (-) or the direction of the bias may be indeterminable.

Summary of Findings
• Isopropanol was J qualified in several samples due to poor CCV recovery.

Table 2 - List of Positive Results for Blank Samples
None.

Table 2A - List of Samples Qualified for Method Blank Contamination
None.

Table 3 – List of LCS Recoveries outside Control Limits
None.

Table 3A – List of LCS RPD outside Control Limits
None.

Table 4 – List of ICAL/ICV/CCV recoveries outside Control Limits

Method	Sample Name	Sample Type	Analyte	RRF, %RSD or %D	RRF, %RSD or %D Limit	Associated Samples	Qualifier
TO-15	410-761239/3	CCV	Isopropanol	49.0	30	GC480-BA01-0126 GC480-BA02-0126 GC480-BA03-0126 GC480-BA04-0126 GC480-FA02-0126 GC480-FA03-0126 GC480-SV01-0126 GC480-SV02-0126 GC480-SV03-0126	J
TO-15	81000	CAL	Hexachlorobutadiene	32.9	30	GC480-OA01-0126	None - ND

Table 5 – Internal Standard Outside Control Limits
None.

Table 6 – Samples that were Re-analyzed/Diluted

Method	Batch	Sample	Laboratory ID	Analyte	Reason
TO-15	763239	GC480-BA02-0226	410-262882-6	Isopropanol	4x Dilution
TO-15	763239	GC480-BA03-0226	410-262882-7	Isopropanol	4x Dilution
TO-15	763239	GC480-BA04-0226	410-262882-8	Isopropanol	10x Dilution
TO-15	763583	GC480-FA01-0226	410-262882-9	Isopropanol	20x Dilution
TO-15	763239	GC480-FA02-0226	410-262882-10	Isopropanol	4x Dilution
TO-15	763239	GC480-FA03-0226	410-262882-11	Isopropanol	20x Dilution

Table 7 – Summary of Duplicate Results

Method	Analyte	Unit	Matrix	PQL	GC480-BA01-0126	410-262882-5 DU	RPD	RPD Rating	Qualifier
TO-15	Acetone	ug/m3	AI	12	9.9	9.85	0.5%	Good	None
TO-15	Benzene	ug/m3	AI	0.64	0.23	0.214	7.2%	Good	None
TO-15	Chloroform	ug/m3	AI	0.98	0.42	0.423	0.7%	Good	None
TO-15	Dichlorodifluoromethane	ug/m3	AI	2.5	2.0	1.93	3.6%	Good	None
TO-15	Isopropanol	ug/m3	AI	12	120	116	3.4%	Good	None
TO-15	Tetrachloroethene (PCE)	ug/m3	AI	1.4	2.0	2.02	1.0%	Good	None
TO-15	Trichlorofluoromethane	ug/m3	AI	1.1	1.1	1.11	0.9%	Good	None
TO-15	Acetone	ug/m3	AI	12	9.9	9.85	0.5%	Good	None

Method	Analyte	Unit	Matrix	PQL	GC480-OA01-0126	410-262882-12 DU	RPD	RPD Rating	Qualifier
TO-15	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	AO	1.5	0.52	0.561	7.6%	Good	None
TO-15	2,2,4-Trimethylpentane	ug/m3	AO	0.93	0.50	0.508	1.6%	Good	None
TO-15	Acetone	ug/m3	AO	12	4.9	4.89	0.2%	Good	None
TO-15	Benzene	ug/m3	AO	0.64	0.84	0.861	2.5%	Good	None
TO-15	Cyclohexane	ug/m3	AO	0.69	0.26	0.298	13.6%	Good	None
TO-15	Dichlorodifluoromethane	ug/m3	AO	2.5	2.7	2.66	1.5%	Good	None
TO-15	m,p-Xylene	ug/m3	AO	2.2	0.69	0.651	5.8%	Good	None
TO-15	N-Hexane	ug/m3	AO	1.8	0.64	0.610	4.8%	Good	None
TO-15	Toluene	ug/m3	AO	0.75	1.1	1.19	7.9%	Good	None
TO-15	Trichlorofluoromethane	ug/m3	AO	1.1	1.2	1.14	5.1%	Good	None

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: February 20, 2026	Completed by: Sayward Gohman-Kramer

Acronym List and Table Key:

AI	=	indoor ambient air
AO	=	outdoor ambient air
AS	=	sub slab soil vapor
Abs Diff	=	absolute difference
CCV	=	continuing calibration verification
COC	=	chain of custody
DUSR	=	data usability summary report
EPA	=	Environmental Protection Agency
FD	=	field duplicate
GC/MS	=	gas chromatography / mass spectrometry
ICAL	=	initial calibration
ICV	=	initial calibration verification
LCS	=	laboratory control sample
MB	=	method blank
MDL	=	method detection limit
N	=	normal (field) sample
NC	=	not calculated
ND	=	not detected
NYSDEC	=	New York State Department of Environmental Conservation
PQL	=	practical quantitation limit
QA	=	quality assurance
QC	=	quality control
RPD	=	relative percent difference
RRF	=	relative response factor
RSD	=	relative standard deviation
SDG	=	sample delivery group
TRG	=	target compound
%D	=	percent difference
%RSD	=	percent relative standard deviation
ug/m^3	=	microgram per cubic meter

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: May 28, 2026	Completed by: Sayward Gohman-Kramer

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- NYSDEC Division of Environmental Remediation Guidance for Data Deliverables and the Development of Data Usability Summary Reports (in DER-10, May 2010)
- EPA Region 2 Data Validation
    - SOP NO. HW-31, Revision 6, Volatile Organic Compounds in Air Contained in Canisters by Method TO-15

This validation was performed under Category B guidelines. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

Project ID	Lab Work Order	Laboratory Report
EE1705007.0028	26D0204	York Analytical Laboratories – Richmond Hill, NY

Table 1 Sample Listing Summary

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Field QC	ID Corrections
26D0204	AI	GC480-BA01-0426	26D0204-03	4/2/2026 12:06		
26D0204	AS	GC480-SV02-0426	26D0204-04	4/2/2026 11:20		
26D0204	AI	GC480-BA02-0426	26D0204-05	4/2/2026 11:19		
26D0204	AS	GC480-SV03-0426	26D0204-06	4/2/2026 11:12		
26D0204	AI	GC480-BA03-0426	26D0204-07	4/2/2026 11:13		
26D0204	AS	GC480-SV04-0426	26D0204-08	4/2/2026 11:10		
26D0204	AI	GC480-BA04-0426	26D0204-09	4/2/2026 11:11		
26D0204	AI	GC480-FA01-0426	26D0204-10	4/2/2026 11:24		
26D0204	AI	GC480-FA02-0426	26D0204-11	4/2/2026 11:25		
26D0204	AI	GC480-FA03-0426	26D0204-01	4/2/2026 12:00		
26D0204	AO	GC480-OA01-0426	26D0204-02	4/2/2026 12:00		

Table 1A Sample Test Summary

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
26D0204	AS	TO-15	Volatile Organic Compounds by GC/MS	3	N
26D0204	AI	TO-15	Volatile Organic Compounds by GC/MS	7	N
26D0204	AO	TO-15	Volatile Organic Compounds by GC/MS	1	N

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	Yes.
Did coolers arrive at lab between 2 and 6°C and in good condition as indicated on COC and Receipt Form?	Thermal preservation is not required.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples	No field duplicate associated with this SDG was collected. However, 1 per 20 field QC frequency will be evaluated at end of sampling event.
Case narrative present and complete?	Yes. The air canisters were batched certified to be below the reporting limit for all target analytes.
Any holding time violations?	No.

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Method Blanks Results (Table 2)
- LCS Outside Limits (Table 3)
- CCV/ICV Outside Limits (Table 4)
- Internal Standard Outside Limits (Table 5)
- Reanalysis/Dilution Results (Table 6)

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Volatile Organic Compounds by Method TO-15	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or field blanks (see Table 2)?	Yes. Isopropanol was detected below the reporting limit in method blank BE61310-BLK1.
For samples, if results are < 2 times the blank or < 4 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Isopropanol detections were greater than 2x the blank contamination; therefore, no qualification was made.
Is Laboratory QC frequency at least one blank and LCS with each batch?	Yes.
Is LCS within QC criteria (see Table 3)? If out, and the recovery is high with no positive values, then no data qualification is required.	Yes.
Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix (see Table 5)?	No. Bromochloromethane and 1,4-difluorobenzene were recovered above acceptance criteria in calibration point S6E1932-CAL6. Associated detections in all samples were qualified J-.
Is initial calibration for target compounds <30 %RSD or curve fit? (see Table 4)	No. 1,4-Dichlorobenzene and 1,4-dioxane exhibited high %RSD in calibration curve SE60024. Sample detections were J qualified and non-detects did not require qualification.
Is the initial calibration verification for target compounds between laboratory limits or 70-130%? (see Table 4)	Yes.
Is continuing calibration for target compounds <30 %D? (see Table 4)	Yes.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	All samples were diluted to bring concentrations within the calibration range. The reporting limits have been adjusted accordingly. No qualification was made based on dilutions. No data usability issues were observed. Isopropanol was recovered above the calibration range for several samples. The laboratory qualified this as E for estimated. Samples were qualified J as estimated.
For TICs are there any system related compounds that should not be reported?	No.

Quantitation Limits and Data Assessment: Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the TO-15 analysis. These results were qualified as estimated (J) by the laboratory.

Data Validation Qualifiers Definitions:

J – The analyte QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. The 'J' qualified data may be biased high (+) or low (-) or the direction of the bias may be indeterminable.

UJ - The analyte was not detected above the reported sample quantitation limit. The analyte QC analysis fails outside the primary acceptance limits. The "UJ" qualified data are not excluded from further review or consideration. The 'UJ' qualified data may be biased low.

Summary of Findings

- 1,4-Dichlorobenzene was J qualified in samples GC480-SV02-0426, GC480-SV03-0426, and GC480-SV04-0426 due to poor initial calibration.
- Several detections were J- qualified in in all samples due to high calibration internal standards. See Table 5 for list of compounds.
- Isopropanol was J qualified in samples GC480-BA01-0426, GC480-BA02-0426, GC480-BA03-0426, GC480-BA04-0426, GC480-FA01-0426, GC480-FA02-0426, and GC480-FA03-0426 due to exceeding calibration range.

Table 2 - List of Positive Results for Blank Samples

Method	Sample Name	Sample Type	Analyte	Result	Qualifier	Units	MDL	PQL
TO-15	BE61310-BLK1	MB	Isopropanol	0.320	J	ug/m3	0.059	1.47

Table 2A - List of Samples Qualified for Method Blank Contamination
None.

Table 3 – List of LCS Recoveries outside Control Limits
None.

Table 3A – List of LCS RPD outside Control Limits
None.

Table 4 – List of ICAL/ICV/CCV recoveries outside Control Limits

Method	Sample Name	Sample Type	Analyte	RRF, %RSD or %D	RRF, %RSD or %D Limit	Associated Samples	Qualifier
TO-15	SE60024	CAL	1,4-Dichlorobenzene	36.8	30	GC480-BA04-0426 GC480-FA01-0426 GC480-FA02-0426 GC480-FA03-0426 GC480-OA01-0426	None - ND
						GC480-SV02-0426 GC480-SV03-0426 GC480-SV04-0426	J
			1,4-Dioxane	30.4	30	All Samples	None - ND

Table 5 – Internal Standard Outside Control Limits

Method	Calibration Name	Sample Type	Internal Standard	%R	Low Limit	High Limit	Associated Analytes	Associated Samples	Qualifier
TO-15	S6E1932-CAL6	CAL	Bromochloromethane	141	60	140	2,2,4-Trimethylpentane	GC480-BA04-0426	J-
							1,1-Dichloroethylene 1,1-Dichloroethane	GC480-SV03-0426 GC480-SV04-0426	J-
							Cyclohexane	GC480-BA02-0426 GC480-BA03-0426 GC480-BA04-0426 GC480-FA01-0426	J-

Method	Calibration Name	Sample Type	Internal Standard	%R	Low Limit	High Limit	Associated Analytes	Associated Samples	Qualifier
							Carbon Disulfide	GC480-SV02-0426 GC480-SV03-0426 GC480-BA03-0426 GC480-SV04-0426	J-
							1,1,1-Trichloroethane	GC480-SV02-0426 GC480-BA02-0426 GC480-SV03-0426 GC480-BA03-0426 GC480-SV04-0426 GC480-BA04-0426	J-
							Chloroform	GC480-FA03-0426 GC480-BA01-0426 GC480-SV02-0426 GC480-BA02-0426 GC480-SV03-0426 GC480-BA03-0426 GC480-SV04-0426 GC480-BA04-0426	J-
							Chloromethane Dichlorodifluoromethane Hexane	GC480-FA03-0426 GC480-OA01-0426 GC480-BA01-0426 GC480-BA02-0426 GC480-BA03-0426 GC480-BA04-0426 GC480-FA01-0426 GC480-FA02-0426	J-
							Methylene Chloride	GC480-FA03-0426 GC480-OA01-0426 GC480-BA01-0426 GC480-BA02-0426 GC480-SV03-0426 GC480-BA03-0426 GC480-SV04-0426 GC480-BA04-0426 GC480-FA01-0426 GC480-FA02-0426	J-

Method	Calibration Name	Sample Type	Internal Standard	%R	Low Limit	High Limit	Associated Analytes	Associated Samples	Qualifier
							Benzene Trichlorofluoromethane Isopropanol Acetone 2-Butanone	All Samples	J-
TO-15	S6E1932-CAL6	CAL	1,4-Difluorobenzene	174	60	140	Trichloroethylene	GC480-FA03-0426 GC480-BA01-0426 GC480-SV02-0426	J-
							Methyl Isobutyl Ketone	GC480-SV02-0426 GC480-BA02-0426 GC480-SV03-0426 GC480-BA03-0426 GC480-SV04-0426 GC480-BA04-0426 GC480-FA01-0426	J-
							Toluene Tetrachloroethylene	All Samples	J-

Table 6 – Samples that were Re-analyzed/Diluted

Method	Batch	Sample	Laboratory ID	Analyte	Reason
TO-15	BE61310	GC480-BA01-0426	26D0204-03	All Analytes	1.31x Dilution
TO-15	BE61310	GC480-SV02-0426	26D0204-04	All Analytes	1.81x Dilution
TO-15	BE61310	GC480-BA02-0426	26D0204-05	All Analytes	0.92x Dilution
TO-15	BE61310	GC480-SV03-0426	26D0204-06	All Analytes	1.73x Dilution
			26D0204-06 RE3	1,1,1-Trichloroethane	6.91x Dilution
TO-15	BE61310	GC480-BA03-0426	26D0204-07	All Analytes	0.90x Dilution
TO-15	BE61310	GC480-SV04-0426	26D0204-08	All Analytes	1.74x Dilution
TO-15	BE61310	GC480-BA04-0426	26D0204-09	All Analytes	1.06x Dilution
TO-15	BE61310	GC480-FA01-0426	26D0204-10	All Analytes	0.92x Dilution
TO-15	BE61310	GC480-FA02-0426	26D0204-11	All Analytes	0.93x Dilution
TO-15	BE61310	GC480-FA03-0426	26D0204-01	All Analytes	0.99x Dilution
TO-15	BE61310	GC480-OA01-0426	26D0204-02	All Analytes	1.31x Dilution

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: May 28, 2026	Completed by: Sayward Gohman-Kramer

Acronym List and Table Key:

AI	=	indoor ambient air
AO	=	outdoor ambient air
AS	=	sub slab soil vapor
Abs Diff	=	absolute difference
CCV	=	continuing calibration verification
COC	=	chain of custody
DUSR	=	data usability summary report
EPA	=	Environmental Protection Agency
FD	=	field duplicate
GC/MS	=	gas chromatography / mass spectrometry
ICAL	=	initial calibration
ICV	=	initial calibration verification
LCS	=	laboratory control sample
MB	=	method blank
MDL	=	method detection limit
N	=	normal (field) sample
NC	=	not calculated
ND	=	not detected
NYSDEC	=	New York State Department of Environmental Conservation
PQL	=	practical quantitation limit
QA	=	quality assurance
QC	=	quality control
RPD	=	relative percent difference
RRF	=	relative response factor
RSD	=	relative standard deviation
SDG	=	sample delivery group
TRG	=	target compound
%D	=	percent difference
%RSD	=	percent relative standard deviation
ug/m^3	=	microgram per cubic meter

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: December 31, 2025	Prepared by: Sayward Gohman-Kramer Reviewed by:

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- NYSDEC Division of Environmental Remediation Guidance for Data Deliverables and the Development of Data Usability Summary Reports (in DER-10, May 2010)
- EPA Region 2 Data Validation
    - SOP NO. HW-31, Revision 6, Volatile Organic Compounds in Air Contained in Canisters by Method TO-15

This validation was performed under Category B guidelines. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

Project ID	Lab Work Order	Laboratory Report
EE1705007.0028	25L0615	York Analytical Laboratories – Richmond Hill, NY

Table 1 Sample Listing Summary

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Field QC	ID Corrections
25L0615	AI	GC482-BA01-1225	25L0615-01	12/5/2025 10:31		
25L0615	AI	GC482-FA01-1225	25L0615-02	12/5/2025 10:30		
25L0615	AO	GC482-OA01-1225	25L0615-03	12/5/2025 10:29		

Table 1A Sample Test Summary

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
25L0615	AI	TO-15	Volatile Organic Compounds by GC/MS	2	N
25L0615	AO	TO-15	Volatile Organic Compounds by GC/MS	1	N

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: December 31, 2025	Prepared by: Sayward Gohman-Kramer Reviewed by:

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	Yes.
Did coolers arrive at lab between 2 and 6°C and in good condition as indicated on COC and Receipt Form?	Thermal preservation is not required.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples	No field duplicate associated with this SDG was collected. However, 1 per 20 field QC frequency will be evaluated at end of sampling event.
Case narrative present and complete?	Yes. The air canisters were batched certified to be below the reporting limit for all target analytes.
Any holding time violations?	No.

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Method Blanks Results (Table 2)
- LCS Outside Limits (Table 3)
- CCV/ICV Outside Limits (Table 4)
- Internal Standard Outside Limits (Table 5)
- Reanalysis/Dilution Results (Table 6)

Go to List

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: December 31, 2025	Prepared by: Sayward Gohman-Kramer Reviewed by:

Volatile Organic Compounds by Method TO-15	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or field blanks (see Table 2)?	No. Acetone and toluene were detected below the reporting limit in method blank BL50939-BLK1.
For samples, if results are < 2 times the blank or < 4 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Acetone detections were greater than 4x the blank contamination; therefore, no qualification was made. Toluene detections were greater than 2x the blank contamination; therefore, no qualification was made.
Is Laboratory QC frequency at least one blank and LCS with each batch?	Yes.
Is LCS within QC criteria (see Table 3)? If out, and the recovery is high with no positive values, then no data qualification is required.	No. Hexachlorobutadiene was recovered above acceptance criteria in LCS BL50949-BS1. Associated sample was non-detect for this compound; therefore, no qualification was made.
Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix (see Table 5)?	Yes.
Is initial calibration for target compounds <30 %RSD or curve fit? (see Table 4)	No. Benzyl chloride and bromoform exhibited high %RSD in calibration curve SK50015. Associated samples were non-detect for these compounds; therefore, no qualification was made. 1,2,4-Trichlorobenzene and benzyl chloride exhibited high %RSD in calibration curve SL50019. Associated sample GC482-BA01-1225 was non-detect for these compounds; therefore, no qualification was made.
Is the initial calibration verification for target compounds between laboratory limits or 70-130%? (see Table 4)	Yes.
Is continuing calibration for target compounds <30 %D? (see Table 4)	Yes.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	All samples were diluted to bring concentrations within the calibration range. The reporting limits have been adjusted accordingly. No qualification was made based on dilutions. No data usability issues were observed. Isopropanol was recovered above the calibration range for samples GC482-FA01-1225 and GC482-BA01-1225. The laboratory qualified this as E for estimated. Samples were qualified J as estimated.
For TICs are there any system related compounds that should not be reported?	No.

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: December 31, 2025	Prepared by: Sayward Gohman-Kramer Reviewed by:

Quantitation Limits and Data Assessment: Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the TO-15 analysis. These results were qualified as estimated (J) by the laboratory.

Data Validation Qualifiers Definitions:

J – The analyte QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. The 'J' qualified data may be biased high (+) or low (-) or the direction of the bias may be indeterminable.

Summary of Findings
• Isopropanol was J qualified in samples GC482-FA01-1225 and GC482-BA01-1225 due to exceeding calibration range.

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: December 31, 2025	Prepared by: Sayward Gohman-Kramer Reviewed by:

Table 2 - List of Positive Results for Blank Samples

Method	Sample Name	Sample Type	Analyte	Result	Qualifier	Units	MDL	PQL
TO-15	BL50939-BLK1	MB	Acetone	1.26	J	ug/m3	1.23	11.9
			Toluene	0.188	J	ug/m3	0.151	0.377

Table 2A - List of Samples Qualified for Method Blank Contamination

None.

Table 3 – List of LCS Recoveries outside Control Limits

Method	Sample Name	Sample Type	Analyte	LCS(D) R%	Low Limit	High Limit	Associated Samples	Qualifier
TO-15	BL50949-BS1	LCS	Hexachlorobutadiene	133	70	130	GC482-BA01-1225	None – High and ND

Table 3A – List of LCS RPD outside Control Limits

None.

Table 4 – List of ICAL/ICV/CCV recoveries outside Control Limits

Method	Sample Name	Sample Type	Analyte	RRF, %RSD or %D	RRF, %RSD or %D Limit	Associated Samples	Qualifier
TO-15	SK510015	ICAL	Benzyl Chloride	38.8	30	GC482-FA01-1225 GC482-OA01-1225	None - ND
			Bromoform	32.8	30		None - ND
TO-15	SL50019	ICAL	1,2,4-Trichlorobenzene	33.3	30	GC482-BA01-1225	None - ND
			Bromoform	37.6	30		None - ND

Table 5 – Internal Standard Outside Control Limits

None.

Table 6 – Samples that were Re-analyzed/Diluted

Method	Batch	Sample	Laboratory ID	Analyte	Reason
TO-15	BL50949	GC482-BA01-1225	25L0615-01	All Analytes	0.91x Dilution
TO-15	BL50939	GC482-FA01-1225	25L0615-02	All Analytes	0.94x Dilution
TO-15	BL50939	GC482-OA01-1225	25L0615-03	All Analytes	0.83x Dilution

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: December 31, 2025	Prepared by: Sayward Gohman-Kramer Reviewed by:

Acronym List and Table Key:

AI	=	indoor ambient air
AO	=	outdoor ambient air
AS	=	sub slab soil vapor
Abs Diff	=	absolute difference
CCV	=	continuing calibration verification
COC	=	chain of custody
DUSR	=	data usability summary report
EPA	=	Environmental Protection Agency
FD	=	field duplicate
GC/MS	=	gas chromatography / mass spectrometry
ICAL	=	initial calibration
ICV	=	initial calibration verification
LCS	=	laboratory control sample
MB	=	method blank
MDL	=	method detection limit
N	=	normal (field) sample
NC	=	not calculated
ND	=	not detected
NYSDEC	=	New York State Department of Environmental Conservation
PQL	=	practical quantitation limit
QA	=	quality assurance
QC	=	quality control
RPD	=	relative percent difference
RRF	=	relative response factor
RSD	=	relative standard deviation
SDG	=	sample delivery group
TRG	=	target compound
%D	=	percent difference
%RSD	=	percent relative standard deviation
ug/m^3	=	microgram per cubic meter

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: December 10, 2025	Prepared by: Sayward Gohman-Kramer Reviewed by:

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- NYSDEC Division of Environmental Remediation Guidance for Data Deliverables and the Development of Data Usability Summary Reports (in DER-10, May 2010)
- EPA Region 2 Data Validation
    - SOP NO. HW-31, Revision 6, Volatile Organic Compounds in Air Contained in Canisters by Method TO-15

This validation was performed under Category B guidelines. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

Project ID	Lab Work Order	Laboratory Report
EE1705007.0028	410-253367-1	Eurofins – Lancaster

Table 1 Sample Listing Summary

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Field QC	ID Corrections
410-253367-1	AS	GC483-SV01-1125	410-253367-1	11/11/2025 11:35		
410-253367-1	AI	GC483-BA01-1125	410-253367-2	11/11/2025 11:36		
410-253367-1	AI	GC483-FA01-1125	410-253367-3	11/11/2025 11:38		
410-253367-1	AI	GC483-FA02-1125	410-253367-4	11/11/2025 11:39		
410-253367-1	AO	GC483-OA01-1125	410-253367-5	11/11/2025 11:40		

Table 1A Sample Test Summary

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
410-253367-1	AS	TO-15	Volatile Organic Compounds by GC/MS	1	N
410-253367-1	AI	TO-15	Volatile Organic Compounds by GC/MS	3	N
410-253367-1	AO	TO-15	Volatile Organic Compounds by GC/MS	1	N

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: December 10, 2025	Prepared by: Sayward Gohman-Kramer Reviewed by:

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	Yes.
Did coolers arrive at lab between 2 and 6°C and in good condition as indicated on COC and Receipt Form?	Thermal preservation is not required.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples	No field duplicate associated with this SDG was collected. However, 1 per 20 field QC frequency will be evaluated at end of sampling event.
Case narrative present and complete?	Yes. The air canisters were batched certified to be below the reporting limit for all target analytes.
Any holding time violations?	No.

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Method Blanks Results (Table 2)
- LCS Outside Limits (Table 3)
- CCV/ICV Outside Limits (Table 4)
- Internal Standard Outside Limits (Table 5)
- Reanalysis/Dilution Results (Table 6)

Go to List

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: December 10, 2025	Prepared by: Sayward Gohman-Kramer Reviewed by:

Volatile Organic Compounds by Method TO-15	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or field blanks (see Table 2)?	No.
For samples, if results are < 2 times the blank or < 4 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Not applicable.
Is Laboratory QC frequency at least one blank and LCS with each batch?	Yes.
Is LCS within QC criteria (see Table 3)? If out, and the recovery is high with no positive values, then no data qualification is required.	Yes.
Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix (see Table 5)?	Yes.
Is initial calibration for target compounds <30 %RSD or curve fit? (see Table 4)	No. Tetrachloroethene exhibited high %RSD in calibration curve 77476. This compound was detected in associated samples; therefore, results were J qualified as estimated. 1,2,4-Trichlorobenzene and naphthalene exhibited high %RSD in calibration curve 78254. Associated samples were non-detect for these compounds; therefore, no qualification was made.
Is the initial calibration verification for target compounds between laboratory limits or 70-130%? (see Table 4)	Yes.
Is continuing calibration for target compounds <30 %D? (see Table 4)	Yes.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	Sample GC483-SV01-1125 was diluted to bring acetone concentration within the calibration range. The reporting limits have been adjusted accordingly. No qualification was made based on dilutions. No data usability issues were observed.
For TICs are there any system related compounds that should not be reported?	No.

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: December 10, 2025	Prepared by: Sayward Gohman-Kramer Reviewed by:

Quantitation Limits and Data Assessment: Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the TO-15 analysis. These results were qualified as estimated (J) by the laboratory.

Data Validation Qualifiers Definitions:

J – The analyte QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. The 'J' qualified data may be biased high (+) or low (-) or the direction of the bias may be indeterminable.

Summary of Findings
• Tetrachloroethene was J qualified in samples GC483-BA01-1125, GC483-FA02-1125, and GC483-OA01-1125 due to poor initial calibration.

Table 2 - List of Positive Results for Blank Samples
None.

Table 2A - List of Samples Qualified for Method Blank Contamination
None.

Table 3 – List of LCS Recoveries outside Control Limits
None.

Table 3A – List of LCS RPD outside Control Limits
None.

Table 4 – List of ICAL/ICV/CCV recoveries outside Control Limits

Method	Sample Name	Sample Type	Analyte	RRF, %RSD or %D	RRF, %RSD or %D Limit	Associated Samples	Qualifier
TO-15	77476	ICAL	Tetrachloroethene	33.8	30	GC483-SV01-1125 GC483-BA01-1125 GC483-FA02-1125	J
TO-15	78254	ICAL	1,2,4-Trichlorobenzene	32.6	30	GC483-FA01-1125 GC483-OA01-1125	None - ND
			Naphthalene	33.6	30		None - ND

Table 5 – Internal Standard Outside Control Limits
None.

Table 6 – Samples that were Re-analyzed/Diluted

Method	Batch	Sample	Laboratory ID	Analyte	Reason
TO-15	735911	GC483-SV01-1125	410-253367-1	Acetone	4x Dilution

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: December 10, 2025	Prepared by: Sayward Gohman-Kramer Reviewed by:

Acronym List and Table Key:

AI	=	indoor ambient air
AO	=	outdoor ambient air
AS	=	sub slab soil vapor
Abs Diff	=	absolute difference
CCV	=	continuing calibration verification
COC	=	chain of custody
DUSR	=	data usability summary report
EPA	=	Environmental Protection Agency
FD	=	field duplicate
GC/MS	=	gas chromatography / mass spectrometry
ICAL	=	initial calibration
ICV	=	initial calibration verification
LCS	=	laboratory control sample
MB	=	method blank
MDL	=	method detection limit
N	=	normal (field) sample
NC	=	not calculated
ND	=	not detected
NYSDEC	=	New York State Department of Environmental Conservation
PQL	=	practical quantitation limit
QA	=	quality assurance
QC	=	quality control
RPD	=	relative percent difference
RRF	=	relative response factor
RSD	=	relative standard deviation
SDG	=	sample delivery group
TRG	=	target compound
%D	=	percent difference
%RSD	=	percent relative standard deviation
ug/m^3	=	microgram per cubic meter

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: December 29, 2025	Prepared by: Sayward Gohman-Kramer Reviewed by:

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- NYSDEC Division of Environmental Remediation Guidance for Data Deliverables and the Development of Data Usability Summary Reports (in DER-10, May 2010)
- EPA Region 2 Data Validation
    - SOP NO. HW-31, Revision 6, Volatile Organic Compounds in Air Contained in Canisters by Method TO-15

This validation was performed under Category B guidelines. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

Project ID	Lab Work Order	Laboratory Report
EE1705007.0028	410-256273-1	Eurofins – Lancaster

Table 1 Sample Listing Summary

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Field QC	ID Corrections
410-256273-1	AI	GC485-BA01-1225	410-256273-2	12/3/2025 9:01		
410-256273-1	AI	GC485-FA01-1225	410-256273-3	12/3/2025 9:06		
410-256273-1	AO	GC485-OA01-1225	410-256273-4	12/3/2025 8:51		

Table 1A Sample Test Summary

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
410-256273-1	AI	TO-15	Volatile Organic Compounds by GC/MS	2	N
410-256273-1	AO	TO-15	Volatile Organic Compounds by GC/MS	1	N

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: December 29, 2025	Prepared by: Sayward Gohman-Kramer Reviewed by:

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	No. Sample GC485-SV01-1225 did not collect enough sample for the lab to analyze. Analysis was cancelled by the lab on 12/19.
Did coolers arrive at lab between 2 and 6ºC and in good condition as indicated on COC and Receipt Form?	Thermal preservation is not required.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples	No field duplicate associated with this SDG was collected. However, 1 per 20 field QC frequency will be evaluated at end of sampling event.
Case narrative present and complete?	Yes. The air canisters were batched certified to be below the reporting limit for all target analytes.
Any holding time violations?	No.

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Method Blanks Results (Table 2)
- LCS Outside Limits (Table 3)
- CCV/ICV Outside Limits (Table 4)
- Internal Standard Outside Limits (Table 5)
- Reanalysis/Dilution Results (Table 6)
- Duplicate Results (Table 7)

Go to List

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: December 29, 2025	Prepared by: Sayward Gohman-Kramer Reviewed by:

Volatile Organic Compounds by Method TO-15	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or field blanks (see Table 2)?	No.
For samples, if results are < 2 times the blank or < 4 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Not applicable.
Is Laboratory QC frequency at least one blank and LCS with each batch?	Yes.
Is LCS within QC criteria (see Table 3)? If out, and the recovery is high with no positive values, then no data qualification is required.	Yes.
Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix (see Table 5)?	Yes.
Is initial calibration for target compounds <30 %RSD or curve fit? (see Table 4)	Yes.
Is the initial calibration verification for target compounds between laboratory limits or 70-130%? (see Table 4)	Yes.
Is continuing calibration for target compounds <30 %D? (see Table 4)	Yes.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	Sample GC485-FA01-1225 was diluted to bring acetone concentrations within the calibration range. The reporting limits have been adjusted accordingly. No qualification was made based on dilutions. No data usability issues were observed.
For TICs are there any system related compounds that should not be reported?	No.
Do duplicate results show good precision for all compounds except TICs (see Table 7)?	No. Chloroform and tetrachloroethene were outside QC criteria of 50% RPD between samples GC485-BA01-1225 and its laboratory duplicate 410-256273-2DU. The difference between results was <2x the PQL; therefore, results were not qualified.

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: December 29, 2025	Prepared by: Sayward Gohman-Kramer Reviewed by:

Quantitation Limits and Data Assessment: Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the TO-15 analysis. These results were qualified as estimated (J) by the laboratory.

Summary of Findings
• No data usability issues were observed.

Table 2 - List of Positive Results for Blank Samples
None.

Table 2A - List of Samples Qualified for Method Blank Contamination
None.

Table 3 – List of LCS Recoveries outside Control Limits
None.

Table 3A – List of LCS RPD outside Control Limits
None.

Table 4 – List of ICAL/ICV/CCV recoveries outside Control Limits
None.

Table 5 – Internal Standard Outside Control Limits
None.

Table 6 – Samples that were Re-analyzed/Diluted

Method	Batch	Sample	Laboratory ID	Analyte	Reason
TO-15	747296	GC485-FA01-1225	410-256273-3	Acetone	2x Dilution

Table 7 – Summary of Duplicate Results

Method	Analyte	Unit	Matrix	PQL	GC485-BA01-1225	410-256273-2 DU	RPD	RPD Rating	Qualifier
TO-15	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	AI	1.5	0.57	0.515	10.1%	Good	None
TO-15	Acetone	ug/m3	AI	12	10	9.97	0.3%	Good	None
TO-15	Benzene	ug/m3	AI	0.64	0.61	0.641	5.0%	Good	None
TO-15	Chloroform	ug/m3	AI	0.98	ND	0.256	NC	Poor	None - <2x PQL
TO-15	Cyclohexane	ug/m3	AI	0.69	0.26	0.294	12.3%	Good	None
TO-15	Dichlorodifluoromethane	ug/m3	AI	2.5	2.8	2.81	0.4%	Good	None
TO-15	Methylene Chloride	ug/m3	AI	1.7	0.68	0.704	3.5%	Good	None
TO-15	N-Hexane	ug/m3	AI	1.8	0.43	0.523	19.5%	Good	None
TO-15	Tetrachloroethene (PCE)	ug/m3	AI	1.4	ND	0.856	NC	Poor	None - <2x PQL
TO-15	Trichlorofluoromethane	ug/m3	AI	1.1	1.3	1.35	3.8%	Good	None

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: December 29, 2025	Prepared by: Sayward Gohman-Kramer Reviewed by:

Acronym List and Table Key:

AI	=	indoor ambient air
AO	=	outdoor ambient air
AS	=	sub slab soil vapor
Abs Diff	=	absolute difference
CCV	=	continuing calibration verification
COC	=	chain of custody
DUSR	=	data usability summary report
EPA	=	Environmental Protection Agency
FD	=	field duplicate
GC/MS	=	gas chromatography / mass spectrometry
ICAL	=	initial calibration
ICV	=	initial calibration verification
LCS	=	laboratory control sample
MB	=	method blank
MDL	=	method detection limit
N	=	normal (field) sample
NC	=	not calculated
ND	=	not detected
NYSDEC	=	New York State Department of Environmental Conservation
PQL	=	practical quantitation limit
QA	=	quality assurance
QC	=	quality control
RPD	=	relative percent difference
RRF	=	relative response factor
RSD	=	relative standard deviation
SDG	=	sample delivery group
TRG	=	target compound
%D	=	percent difference
%RSD	=	percent relative standard deviation
ug/m^3	=	microgram per cubic meter

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: February 20, 2026	Completed by: Sayward Gohman-Kramer

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- NYSDEC Division of Environmental Remediation Guidance for Data Deliverables and the Development of Data Usability Summary Reports (in DER-10, May 2010)
- EPA Region 2 Data Validation
    - SOP NO. HW-31, Revision 6, Volatile Organic Compounds in Air Contained in Canisters by Method TO-15

This validation was performed under Category B guidelines. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

Project ID	Lab Work Order	Laboratory Report
EE1705007.0028	26B0006	York Analytical Laboratories – Richmond Hill, NY

Table 1 Sample Listing Summary

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Field QC	ID Corrections
26B0006	AS	GC486-SV01-0126	26B0006-01	1/30/2026 13:02		
26B0006	AI	GC486-BA01-0126	26B0006-02	1/30/2026 13:01		
26B0006	AO	GC486-OA01-0126	26B0006-03	1/30/2026 13:07		

Table 1A Sample Test Summary

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
26B0006	AS	TO-15	Volatile Organic Compounds by GC/MS	1	N
26B0006	AI	TO-15	Volatile Organic Compounds by GC/MS	1	N
26B0006	AO	TO-15	Volatile Organic Compounds by GC/MS	1	N

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: February 20, 2026	Completed by: Sayward Gohman-Kramer

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	Yes.
Did coolers arrive at lab between 2 and 6°C and in good condition as indicated on COC and Receipt Form?	Thermal preservation is not required.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples	No field duplicate associated with this SDG was collected. However, 1 per 20 field QC frequency will be evaluated at end of sampling event.
Case narrative present and complete?	Yes. The air canisters were batched certified to be below the reporting limit for all target analytes.
Any holding time violations?	No.

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Method Blanks Results (Table 2)
- LCS Outside Limits (Table 3)
- CCV/ICV Outside Limits (Table 4)
- Internal Standard Outside Limits (Table 5)
- Reanalysis/Dilution Results (Table 6)

Go to List

Volatile Organic Compounds by Method TO-15	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or field blanks (see Table 2)?	Yes. Isopropanol was detected below the reporting limit in method blank BB60448-BLK1.
For samples, if results are < 2 times the blank or < 4 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Isopropanol detections were greater than 2x the blank contamination; therefore, no qualification was made.
Is Laboratory QC frequency at least one blank and LCS with each batch?	Yes.
Is LCS within QC criteria (see Table 3)? If out, and the recovery is high with no positive values, then no data qualification is required.	Yes.
Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix (see Table 5)?	Yes.
Is initial calibration for target compounds <30 %RSD or curve fit? (see Table 4)	No. 1,2,4-Trichlorobenzene and benzyl chloride exhibited high %RSD in calibration curve SL50019. All associated samples were non-detect; therefore, no qualification was made.
Is the initial calibration verification for target compounds between laboratory limits or 70-130%? (see Table 4)	Yes.
Is continuing calibration for target compounds <30 %D? (see Table 4)	Yes.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	All samples were diluted to bring concentrations within the calibration range. The reporting limits have been adjusted accordingly. No qualification was made based on dilutions. No data usability issues were observed.
For TICs are there any system related compounds that should not be reported?	No.

Quantitation Limits and Data Assessment: Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the TO-15 analysis. These results were qualified as estimated (J) by the laboratory.

Summary of Findings
• No data usability issues were observed.

Table 2 - List of Positive Results for Blank Samples

Method	Sample Name	Sample Type	Analyte	Result	Qualifier	Units	MDL	PQL
TO-15	BB60448-BLK1	MB	Isopropanol	0.221	J	ug/m3	0.059	1.47

Table 2A - List of Samples Qualified for Method Blank Contamination
None.

Table 3 – List of LCS Recoveries outside Control Limits
None.

Table 3A – List of LCS RPD outside Control Limits
None.

Table 4 – List of ICAL/ICV/CCV recoveries outside Control Limits

Method	Sample Name	Sample Type	Analyte	RRF, %RSD or %D	RRF, %RSD or %D Limit	Associated Samples	Qualifier
TO-15	SL50019	CAL	1,2,4-Trichlorobenzene	33.3	30	All Samples	None - ND
			Benzyl Chloride	37.6	30		None - ND

Table 5 – Internal Standard Outside Control Limits
None.

Table 6 – Samples that were Re-analyzed/Diluted

Method	Batch	Sample	Laboratory ID	Analyte	Reason
TO-15	BB60448	GC486-SV01-0126	26B0006-01	All Analytes	1.41x Dilution
TO-15	BB60448	GC486-BA01-0126	26B0006-02	All Analytes	0.90x Dilution
TO-15	BB60448	GC486-OA01-0126	26B0006-03	All Analytes	0.79x Dilution

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: February 20, 2026	Completed by: Sayward Gohman-Kramer

Acronym List and Table Key:

AI	=	indoor ambient air
AO	=	outdoor ambient air
AS	=	sub slab soil vapor
Abs Diff	=	absolute difference
CCV	=	continuing calibration verification
COC	=	chain of custody
DUSR	=	data usability summary report
EPA	=	Environmental Protection Agency
FD	=	field duplicate
GC/MS	=	gas chromatography / mass spectrometry
ICAL	=	initial calibration
ICV	=	initial calibration verification
LCS	=	laboratory control sample
MB	=	method blank
MDL	=	method detection limit
N	=	normal (field) sample
NC	=	not calculated
ND	=	not detected
NYSDEC	=	New York State Department of Environmental Conservation
PQL	=	practical quantitation limit
QA	=	quality assurance
QC	=	quality control
RPD	=	relative percent difference
RRF	=	relative response factor
RSD	=	relative standard deviation
SDG	=	sample delivery group
TRG	=	target compound
%D	=	percent difference
%RSD	=	percent relative standard deviation
ug/m^3	=	microgram per cubic meter

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: December 30, 2025	Prepared by: Sayward Gohman-Kramer Reviewed by:

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- NYSDEC Division of Environmental Remediation Guidance for Data Deliverables and the Development of Data Usability Summary Reports (in DER-10, May 2010)
- EPA Region 2 Data Validation
    - SOP NO. HW-31, Revision 6, Volatile Organic Compounds in Air Contained in Canisters by Method TO-15

This validation was performed under Category B guidelines. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

Project ID	Lab Work Order	Laboratory Report
EE1705007.0028	410-256244-1	Eurofins – Lancaster

Table 1 Sample Listing Summary

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Field QC	ID Corrections
410-256244-1	AS	GC487-SV01-1225	410-256244-1	12/4/2025 13:44		
410-256244-1	AI	GC487-FA01-1225	410-256244-2	12/4/2025 13:45		
410-256244-1	AS	GC487-SV02-1225	410-256244-3	12/4/2025 13:43		
410-256244-1	AO	GC487-OA01-1225	410-256244-4	12/4/2025 13:42		

Table 1A Sample Test Summary

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
410-256244-1	AS	TO-15	Volatile Organic Compounds by GC/MS	2	N
410-256244-1	AI	TO-15	Volatile Organic Compounds by GC/MS	1	N
410-256244-1	AO	TO-15	Volatile Organic Compounds by GC/MS	1	N

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: December 30, 2025	Prepared by: Sayward Gohman-Kramer Reviewed by:

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	No. The sample end date on the COC was incorrect and did not match the canister labels. The laboratory entered the samples per the canister labels.
Did coolers arrive at lab between 2 and 6ºC and in good condition as indicated on COC and Receipt Form?	Thermal preservation is not required.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples	No field duplicate associated with this SDG was collected. However, 1 per 20 field QC frequency will be evaluated at end of sampling event.
Case narrative present and complete?	Yes. The air canisters were batched certified to be below the reporting limit for all target analytes.
Any holding time violations?	No.

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Method Blanks Results (Table 2)
- LCS Outside Limits (Table 3)
- CCV/ICV Outside Limits (Table 4)
- Internal Standard Outside Limits (Table 5)
- Reanalysis/Dilution Results (Table 6)

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Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: December 30, 2025	Prepared by: Sayward Gohman-Kramer Reviewed by:

Volatile Organic Compounds by Method TO-15	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or field blanks (see Table 2)?	No.
For samples, if results are < 2 times the blank or < 4 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Not applicable.
Is Laboratory QC frequency at least one blank and LCS with each batch?	Yes.
Is LCS within QC criteria (see Table 3)? If out, and the recovery is high with no positive values, then no data qualification is required.	Yes.
Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix (see Table 5)?	Yes.
Is initial calibration for target compounds <30 %RSD or curve fit? (see Table 4)	Yes.
Is the initial calibration verification for target compounds between laboratory limits or 70-130%? (see Table 4)	Yes.
Is continuing calibration for target compounds <30 %D? (see Table 4)	Yes.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	Samples GC487-SV01-1225 and GC487-SV02-1225 were diluted to bring concentrations within the calibration range. The reporting limits have been adjusted accordingly. No qualification was made based on dilutions. No data usability issues were observed.
For TICs are there any system related compounds that should not be reported?	No.

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: December 30, 2025	Prepared by: Sayward Gohman-Kramer Reviewed by:

Quantitation Limits and Data Assessment: Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the TO-15 analysis. These results were qualified as estimated (J) by the laboratory.

Summary of Findings
• No data usability issues were observed.

Table 2 - List of Positive Results for Blank Samples
None.

Table 2A - List of Samples Qualified for Method Blank Contamination
None.

Table 3 – List of LCS Recoveries outside Control Limits
None.

Table 3A – List of LCS RPD outside Control Limits
None.

Table 4 – List of ICAL/ICV/CCV recoveries outside Control Limits
None.

Table 5 – Internal Standard Outside Control Limits
None.

Table 6 – Samples that were Re-analyzed/Diluted

Method	Batch	Sample	Laboratory ID	Analyte	Reason
TO-15	748250	GC487-SV01-1225	410-256244-1	All Analytes	4x Dilution
TO-15	748250	GC487-SV02-1225	410-256244-3	Acetone	10x Dilution

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: December 30, 2025	Prepared by: Sayward Gohman-Kramer Reviewed by:

Acronym List and Table Key:

AI	=	indoor ambient air
AO	=	outdoor ambient air
AS	=	sub slab soil vapor
Abs Diff	=	absolute difference
CCV	=	continuing calibration verification
COC	=	chain of custody
DUSR	=	data usability summary report
EPA	=	Environmental Protection Agency
FD	=	field duplicate
GC/MS	=	gas chromatography / mass spectrometry
ICAL	=	initial calibration
ICV	=	initial calibration verification
LCS	=	laboratory control sample
MB	=	method blank
MDL	=	method detection limit
N	=	normal (field) sample
NC	=	not calculated
ND	=	not detected
NYSDEC	=	New York State Department of Environmental Conservation
PQL	=	practical quantitation limit
QA	=	quality assurance
QC	=	quality control
RPD	=	relative percent difference
RRF	=	relative response factor
RSD	=	relative standard deviation
SDG	=	sample delivery group
TRG	=	target compound
%D	=	percent difference
%RSD	=	percent relative standard deviation
ug/m^3	=	microgram per cubic meter

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: March 20, 2026	Completed by: Sayward Gohman-Kramer

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- NYSDEC Division of Environmental Remediation Guidance for Data Deliverables and the Development of Data Usability Summary Reports (in DER-10, May 2010)
- EPA Region 2 Data Validation
    - SOP NO. HW-31, Revision 6, Volatile Organic Compounds in Air Contained in Canisters by Method TO-15

This validation was performed under Category B guidelines. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

Project ID	Lab Work Order	Laboratory Report
EE1705007.0028	26B1091	York Analytical Laboratories – Richmond Hill, NY

Table 1 Sample Listing Summary

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Field QC	ID Corrections
26B1091	AS	GC489-SV01-0226	26B1091-01	2/25/2026 11:04		
26B1091	AI	GC489-BA01-0226	26B1091-02	2/25/2026 11:04		
26B1091	AI	GC489-BA02-0226	26B1091-03	2/25/2026 11:08		
26B1091	AI	GC489-FA01-0226	26B1091-04	2/25/2026 11:04		
26B1091	AO	GC489-OA01-0226	26B1091-05	2/25/2026 11:12		

Table 1A Sample Test Summary

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
26B1091	AS	TO-15	Volatile Organic Compounds by GC/MS	1	N
26B1091	AI	TO-15	Volatile Organic Compounds by GC/MS	3	N
26B1091	AO	TO-15	Volatile Organic Compounds by GC/MS	1	N

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	Yes.
Did coolers arrive at lab between 2 and 6°C and in good condition as indicated on COC and Receipt Form?	Thermal preservation is not required.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples	No field duplicate associated with this SDG was collected. However, 1 per 20 field QC frequency will be evaluated at end of sampling event.
Case narrative present and complete?	Yes. The air canisters were batched certified to be below the reporting limit for all target analytes.
Any holding time violations?	No.

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Method Blanks Results (Table 2)
- LCS Outside Limits (Table 3)
- CCV/ICV Outside Limits (Table 4)
- Internal Standard Outside Limits (Table 5)
- Reanalysis/Dilution Results (Table 6)

Go to List

Volatile Organic Compounds by Method TO-15	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or field blanks (see Table 2)?	Yes. Isopropanol was detected below the reporting limit in method blank BC60716-BLK1. Several compounds were detected below the reporting limit in method blank BC60778-BLK1.
For samples, if results are < 2 times the blank or < 4 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Isopropanol detections were greater than 2x the blank contamination; therefore, no qualification was made. All samples were non-detect for these compounds; therefore, no qualifications were made.
Is Laboratory QC frequency at least one blank and LCS with each batch?	Yes.
Is LCS within QC criteria (see Table 3)? If out, and the recovery is high with no positive values, then no data qualification is required.	Yes.
Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix (see Table 5)?	Yes.
Is initial calibration for target compounds <30 %RSD or curve fit? (see Table 4)	Yes.
Is the initial calibration verification for target compounds between laboratory limits or 70-130%? (see Table 4)	Yes.
Is continuing calibration for target compounds <30 %D? (see Table 4)	No. Carbon tetrachloride was recovered outside the acceptance criteria in CCV S6C1329-CCV1. Sample detections were qualified J as estimated and non-detects were UJ qualified as estimated non-detect.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	All samples were diluted to bring concentrations within the calibration range. The reporting limits have been adjusted accordingly. No qualification was made based on dilutions. No data usability issues were observed.
For TICs are there any system related compounds that should not be reported?	No.

Quantitation Limits and Data Assessment: Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the TO-15 analysis. These results were qualified as estimated (J) by the laboratory.

Data Validation Qualifiers Definitions:

J – The analyte QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. The 'J' qualified data may be biased high (+) or low (-) or the direction of the bias may be indeterminable.

UJ - The analyte was not detected above the reported sample quantitation limit. The analyte QC analysis fails outside the primary acceptance limits. The "UJ" qualified data are not excluded from further review or consideration. The 'UJ' qualified data may be biased low.

Summary of Findings
• Carbon tetrachloride was J qualified in GC489-BA01-0226 and GC489-BA02-0226 and was UJ qualified in all other samples due to high CCV recovery.

Table 2 - List of Positive Results for Blank Samples

Method	Sample Name	Sample Type	Analyte	Result	Qualifier	Units	MDL	PQL
TO-15	BC60716-BLK1	MB	Isopropanol	0.246	J	ug/m3	0.059	1.47
TO-15	BC60778-BLK1	MB	1,2,4-Trichlorobenzene	0.742	J	ug/m3	0.283	37.1
			1,4-Dichlorobenzene	0.180	J	ug/m3	0.143	0.601
			Isopropanol	0.246	J	ug/m3	0.059	1.47
			Naphthalene	0.419	J	ug/m3	0.361	5.24

Table 2A - List of Samples Qualified for Method Blank Contamination
None.

Table 3 – List of LCS Recoveries outside Control Limits
None.

Table 3A – List of LCS RPD outside Control Limits
None.

Table 4 – List of ICAL/ICV/CCV recoveries outside Control Limits

Method	Sample Name	Sample Type	Analyte	RRF, %RSD or %D	RRF, %RSD or %D Limit	Associated Samples	Qualifier
TO-15	S6C1329-CCV1	CCV	Carbon Tetrachloride	32.5	30	GC489-FA01-0226 GC489-OA01-0226 GC489-SV01-0226	UJ
						GC489-BA01-0226 GC489-BA02-0226	J

Table 5 – Internal Standard Outside Control Limits
None.

Table 6 – Samples that were Re-analyzed/Diluted

Method	Batch	Sample	Laboratory ID	Analyte	Reason
TO-15	BC60716	GC489-SV01-0226	26B1091-01	All Analytes	1.63x Dilution
TO-15	BC60716	GC489-BA01-0226	26B1091-02	All Analytes	0.89x Dilution
TO-15	BC60716	GC489-BA02-0226	26B1091-03	All Analytes	0.95x Dilution

Method	Batch	Sample	Laboratory ID	Analyte	Reason
TO-15	BC60716	GC489-FA01-0226	26B1091-04	All Analytes	0.93x Dilution
TO-15	BC60716	GC489-OA01-0226	26B1091-05	All Analytes	0.81x Dilution

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: March 20, 2026	Completed by: Sayward Gohman-Kramer

Acronym List and Table Key:

AI	=	indoor ambient air
AO	=	outdoor ambient air
AS	=	sub slab soil vapor
Abs Diff	=	absolute difference
CCV	=	continuing calibration verification
COC	=	chain of custody
DUSR	=	data usability summary report
EPA	=	Environmental Protection Agency
FD	=	field duplicate
GC/MS	=	gas chromatography / mass spectrometry
ICAL	=	initial calibration
ICV	=	initial calibration verification
LCS	=	laboratory control sample
MB	=	method blank
MDL	=	method detection limit
N	=	normal (field) sample
NC	=	not calculated
ND	=	not detected
NYSDEC	=	New York State Department of Environmental Conservation
PQL	=	practical quantitation limit
QA	=	quality assurance
QC	=	quality control
RPD	=	relative percent difference
RRF	=	relative response factor
RSD	=	relative standard deviation
SDG	=	sample delivery group
TRG	=	target compound
%D	=	percent difference
%RSD	=	percent relative standard deviation
ug/m^3	=	microgram per cubic meter

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: December 11, 2025	Prepared by: Sayward Gohman-Kramer Reviewed by:

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- NYSDEC Division of Environmental Remediation Guidance for Data Deliverables and the Development of Data Usability Summary Reports (in DER-10, May 2010)
- EPA Region 2 Data Validation
    - SOP NO. HW-31, Revision 6, Volatile Organic Compounds in Air Contained in Canisters by Method TO-15

This validation was performed under Category B guidelines. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

Project ID	Lab Work Order	Laboratory Report
EE1705007.0028	410-254597-1	Eurofins – Lancaster

Table 1 Sample Listing Summary

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Field QC	ID Corrections
410-254597-1	AS	GC490-SV01-1125	410-254597-1	11/21/2025 12:44		
410-254597-1	AI	GC490-BA01-1125	410-254597-2	11/21/2025 12:44		
410-254597-1	AI	GC490-FA01-1125	410-254597-3	11/21/2025 12:43		
410-254597-1	AO	GC490-OA01-1125	410-254597-4	11/21/2025 12:42		

Table 1A Sample Test Summary

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
410-254597-1	AS	TO-15	Volatile Organic Compounds by GC/MS	1	N
410-254597-1	AI	TO-15	Volatile Organic Compounds by GC/MS	2	N
410-254597-1	AO	TO-15	Volatile Organic Compounds by GC/MS	1	N

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: December 11, 2025	Prepared by: Sayward Gohman-Kramer Reviewed by:

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	No. The canister ID for sample GC490-SV01-1125 listed on the COC did not match the canister label. The laboratory entered the canister label.
Did coolers arrive at lab between 2 and 6ºC and in good condition as indicated on COC and Receipt Form?	Thermal preservation is not required.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples	No field duplicate associated with this SDG was collected. However, 1 per 20 field QC frequency will be evaluated at end of sampling event.
Case narrative present and complete?	Yes. The air canisters were batched certified to be below the reporting limit for all target analytes.
Any holding time violations?	No.

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Method Blanks Results (Table 2)
- LCS Outside Limits (Table 3)
- CCV/ICV Outside Limits (Table 4)
- Internal Standard Outside Limits (Table 5)
- Reanalysis/Dilution Results (Table 6)

Go to List

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: December 11, 2025	Prepared by: Sayward Gohman-Kramer Reviewed by:

Volatile Organic Compounds by Method TO-15	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or field blanks (see Table 2)?	No.
For samples, if results are < 2 times the blank or < 4 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Not applicable.
Is Laboratory QC frequency at least one blank and LCS with each batch?	Yes.
Is LCS within QC criteria (see Table 3)? If out, and the recovery is high with no positive values, then no data qualification is required.	No. 1,2,4-Trichlorobenzene was recovered above the acceptance criteria in LCS 410-738069/4. All samples were non-detect; therefore, no qualifications were made.
Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix (see Table 5)?	Yes.
Is initial calibration for target compounds <30 %RSD or curve fit? (see Table 4)	No. Tetrachloroethene exhibited high %RSD in calibration curve 77476. Sample GC141-SV01-1125 was non-detect for this compound; therefore, no qualification was made. When this compound was detected in samples, results were J qualified as estimated.
Is the initial calibration verification for target compounds between laboratory limits or 70-130%? (see Table 4)	Yes.
Is continuing calibration for target compounds <30 %D? (see Table 4)	Yes.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	Sample GC490-FA01-1125 was diluted to bring acetone concentrations within the calibration range. The reporting limits have been adjusted accordingly. No qualification was made based on dilutions. No data usability issues were observed.
For TICs are there any system related compounds that should not be reported?	No.

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: December 11, 2025	Prepared by: Sayward Gohman-Kramer Reviewed by:

Quantitation Limits and Data Assessment: Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the TO-15 analysis. These results were qualified as estimated (J) by the laboratory.

Data Validation Qualifiers Definitions:

J – The analyte QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. The 'J' qualified data may be biased high (+) or low (-) or the direction of the bias may be indeterminable.

Summary of Findings
• Tetrachloroethene was J qualified in several samples due to poor initial calibration. See Table 5 for list of samples.

Table 2 - List of Positive Results for Blank Samples
None.

Table 2A - List of Samples Qualified for Method Blank Contamination
None.

Table 3 – List of LCS Recoveries outside Control Limits

Method	Sample Name	Sample Type	Analyte	LCS(D) R%	Low Limit	High Limit	Associated Samples	Qualifier
TO-15	410-738069/4	LCS	1,2,4-Trichlorobenzene	146	52	143	All Samples	None – High and ND

Table 3A – List of LCS RPD outside Control Limits
None.

Table 4 – List of ICAL/ICV/CCV recoveries outside Control Limits

Method	Sample Name	Sample Type	Analyte	RRF, %RSD or %D	RRF, %RSD or %D Limit	Associated Samples	Qualifier
TO-15	77476	ICAL	Tetrachloroethene	33.8	30	GC490-FA01-1125 GC490-OA01-1125	None - ND
						GC490-SV01-1125 GC490-BA01-1125	J

Table 5 – Internal Standard Outside Control Limits
None.

Table 6 – Samples that were Re-analyzed/Diluted

Method	Batch	Sample	Laboratory ID	Analyte	Reason
TO-15	738069	GC490-FA01-1125	410-254597-3	Acetone	2x Dilution

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: December 11, 2025	Prepared by: Sayward Gohman-Kramer Reviewed by:

Acronym List and Table Key:

AI	=	indoor ambient air
AO	=	outdoor ambient air
AS	=	sub slab soil vapor
Abs Diff	=	absolute difference
CCV	=	continuing calibration verification
COC	=	chain of custody
DUSR	=	data usability summary report
EPA	=	Environmental Protection Agency
FD	=	field duplicate
GC/MS	=	gas chromatography / mass spectrometry
ICAL	=	initial calibration
ICV	=	initial calibration verification
LCS	=	laboratory control sample
MB	=	method blank
MDL	=	method detection limit
N	=	normal (field) sample
NC	=	not calculated
ND	=	not detected
NYSDEC	=	New York State Department of Environmental Conservation
PQL	=	practical quantitation limit
QA	=	quality assurance
QC	=	quality control
RPD	=	relative percent difference
RRF	=	relative response factor
RSD	=	relative standard deviation
SDG	=	sample delivery group
TRG	=	target compound
%D	=	percent difference
%RSD	=	percent relative standard deviation
ug/m^3	=	microgram per cubic meter

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: December 24, 2025	Prepared by: Sayward Gohman-Kramer Reviewed by:

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- NYSDEC Division of Environmental Remediation Guidance for Data Deliverables and the Development of Data Usability Summary Reports (in DER-10, May 2010)
- EPA Region 2 Data Validation
    - SOP NO. HW-31, Revision 6, Volatile Organic Compounds in Air Contained in Canisters by Method TO-15

This validation was performed under Category B guidelines. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

Project ID	Lab Work Order	Laboratory Report
EE1705007.0028	410-256272-1	Eurofins – Lancaster

Table 1 Sample Listing Summary

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Field QC	ID Corrections
410-256272-1	AS	GC491-SV01-1225	410-256272-1	12/2/2025 7:46		
410-256272-1	AI	GC491-FA01-1225	410-256272-2	12/2/2025 7:48		
410-256272-1	AS	GC491-SV02-1225	410-256272-3	12/2/2025 9:59		
410-256272-1	AI	GC491-FA02-1225	410-256272-4	12/2/2025 10:17		
410-256272-1	AI	GC491-BA01-1225	410-256272-5	12/2/2025 10:31		
410-256272-1	AS	GC491-SV03-1225	410-256272-6	12/2/2025 10:30		
410-256272-1	AO	GC491-OA01-1225	410-256272-7	12/2/2025 9:06		

Table 1A Sample Test Summary

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
410-256272-1	AS	TO-15	Volatile Organic Compounds by GC/MS	3	N
410-256272-1	AI	TO-15	Volatile Organic Compounds by GC/MS	3	N
410-256272-1	AO	TO-15	Volatile Organic Compounds by GC/MS	1	N

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: December 24, 2025	Prepared by: Sayward Gohman-Kramer Reviewed by:

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	Yes.
Did coolers arrive at lab between 2 and 6°C and in good condition as indicated on COC and Receipt Form?	Thermal preservation is not required.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples	No field duplicate associated with this SDG was collected. However, 1 per 20 field QC frequency will be evaluated at end of sampling event.
Case narrative present and complete?	Yes. The air canisters were batched certified to be below the reporting limit for all target analytes.
Any holding time violations?	No.

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Method Blanks Results (Table 2)
- LCS Outside Limits (Table 3)
- CCV/ICV Outside Limits (Table 4)
- Internal Standard Outside Limits (Table 5)
- Reanalysis/Dilution Results (Table 6)

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Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: December 24, 2025	Prepared by: Sayward Gohman-Kramer Reviewed by:

Volatile Organic Compounds by Method TO-15	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or field blanks (see Table 2)?	No.
For samples, if results are < 2 times the blank or < 4 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Not applicable.
Is Laboratory QC frequency at least one blank and LCS with each batch?	Yes.
Is LCS within QC criteria (see Table 3)? If out, and the recovery is high with no positive values, then no data qualification is required.	Yes.
Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix (see Table 5)?	Yes.
Is initial calibration for target compounds <30 %RSD or curve fit? (see Table 4)	Yes.
Is the initial calibration verification for target compounds between laboratory limits or 70-130%? (see Table 4)	Yes.
Is continuing calibration for target compounds <30 %D? (see Table 4)	Yes.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	Samples GC491-SV02-1225, GC491-FA02-1225, and GC491-BA01-1225 were diluted to bring acetone and tetrachloroethene concentrations within the calibration range. The reporting limits have been adjusted accordingly. No qualification was made based on dilutions. No data usability issues were observed.
For TICs are there any system related compounds that should not be reported?	No.

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: December 24, 2025	Prepared by: Sayward Gohman-Kramer Reviewed by:

Quantitation Limits and Data Assessment: Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the TO-15 analysis. These results were qualified as estimated (J) by the laboratory.

Summary of Findings
• No data usability issues were observed.

Table 2 - List of Positive Results for Blank Samples
None.

Table 2A - List of Samples Qualified for Method Blank Contamination
None.

Table 3 – List of LCS Recoveries outside Control Limits
None.

Table 3A – List of LCS RPD outside Control Limits
None.

Table 4 – List of ICAL/ICV/CCV recoveries outside Control Limits
None.

Table 5 – Internal Standard Outside Control Limits
None.

Table 6 – Samples that were Re-analyzed/Diluted

Method	Batch	Sample	Laboratory ID	Analyte	Reason
TO-15	747296	GC491-SV02-1225	410-256272-3	Acetone Tetrachloroethene	10x Dilution
TO-15	747482	GC491-FA02-1225	410-256272-4	Acetone	4x Dilution
TO-15	747482	GC491-BA01-1225	410-256272-5	Tetrachloroethene	2x Dilution

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: December 24, 2025	Prepared by: Sayward Gohman-Kramer Reviewed by:

Acronym List and Table Key:

AI	=	indoor ambient air
AO	=	outdoor ambient air
AS	=	sub slab soil vapor
Abs Diff	=	absolute difference
CCV	=	continuing calibration verification
COC	=	chain of custody
DUSR	=	data usability summary report
EPA	=	Environmental Protection Agency
FD	=	field duplicate
GC/MS	=	gas chromatography / mass spectrometry
ICAL	=	initial calibration
ICV	=	initial calibration verification
LCS	=	laboratory control sample
MB	=	method blank
MDL	=	method detection limit
N	=	normal (field) sample
NC	=	not calculated
ND	=	not detected
NYSDEC	=	New York State Department of Environmental Conservation
PQL	=	practical quantitation limit
QA	=	quality assurance
QC	=	quality control
RPD	=	relative percent difference
RRF	=	relative response factor
RSD	=	relative standard deviation
SDG	=	sample delivery group
TRG	=	target compound
%D	=	percent difference
%RSD	=	percent relative standard deviation
ug/m^3	=	microgram per cubic meter

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: April 8, 2026	Completed by: Sayward Gohman-Kramer

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- NYSDEC Division of Environmental Remediation Guidance for Data Deliverables and the Development of Data Usability Summary Reports (in DER-10, May 2010)
- EPA Region 2 Data Validation
    - SOP NO. HW-31, Revision 6, Volatile Organic Compounds in Air Contained in Canisters by Method TO-15

This validation was performed under Category B guidelines. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

Project ID	Lab Work Order	Laboratory Report
EE1705007.0028	26C1106	York Analytical Laboratories – Richmond Hill, NY

Table 1 Sample Listing Summary

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Field QC	ID Corrections
26C1106	AS	GC491-SV01-0326	26C1106-01	3/18/2026 10:34		
26C1106	AI	GC491-FA01-0326	26C1106-02	3/18/2026 10:34		
26C1106	AS	GC491-SV02-0326	26C1106-03	3/18/2026 9:33		
26C1106	AI	GC491-FA02-0326	26C1106-04	3/18/2026 9:33		
26C1106	AS	GC491-SV03-0326	26C1106-05	3/18/2026 9:20		
26C1106	AI	GC491-BA01-0326	26C1106-06	3/18/2026 9:25		
26C1106	AI	GC491-FA03-0326	26C1106-07	3/18/2026 9:22		
26C1106	AI	GC491-FA04-0326	26C1106-08	3/18/2026 9:22		
26C1106	AI	GC491-FA05-0326	26C1106-09	3/18/2026 9:17		
26C1106	AO	GC491-OA01-0326	26C1106-10	3/18/2026 10:41		

Table 1A Sample Test Summary

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
26C1106	AS	TO-15	Volatile Organic Compounds by GC/MS	3	N
26C1106	AI	TO-15	Volatile Organic Compounds by GC/MS	6	N
26C1106	AO	TO-15	Volatile Organic Compounds by GC/MS	1	N

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	Yes.
Did coolers arrive at lab between 2 and 6°C and in good condition as indicated on COC and Receipt Form?	Thermal preservation is not required.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples	No field duplicate associated with this SDG was collected. However, 1 per 20 field QC frequency will be evaluated at end of sampling event.
Case narrative present and complete?	Yes. The air canisters were batched certified to be below the reporting limit for all target analytes.
Any holding time violations?	No.

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Method Blanks Results (Table 2)
- LCS Outside Limits (Table 3)
- CCV/ICV Outside Limits (Table 4)
- Internal Standard Outside Limits (Table 5)
- Reanalysis/Dilution Results (Table 6)

Go to List

Volatile Organic Compounds by Method TO-15	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or field blanks (see Table 2)?	No.
For samples, if results are < 2 times the blank or < 4 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Not applicable.
Is Laboratory QC frequency at least one blank and LCS with each batch?	Yes.
Is LCS within QC criteria (see Table 3)? If out, and the recovery is high with no positive values, then no data qualification is required.	No. Several compounds were recovered above acceptance criteria in LCS BD60489-BS1. Sample non-detections were not qualified and all sample 4-methyl-2-pentanone detections were J qualified as estimated. Carbon tetrachloride was recovered below acceptance criteria in LCS BD60489-BS1. Sample detections were J qualified and non-detects were UJ qualified.
Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix (see Table 5)?	Yes.
Is initial calibration for target compounds <30 %RSD or curve fit? (see Table 4)	No. 1,2,4-Trichlorobenzene and naphthalene exhibited high %RSD in calibration curve SC60034. All associated samples were non-detect; therefore, no qualification was made.
Is the initial calibration verification for target compounds between laboratory limits or 70-130%? (see Table 4)	Yes.
Is continuing calibration for target compounds <30 %D? (see Table 4)	No. Several compounds were recovered outside the acceptance criteria in CCV S6D0807-CCV1. All sample detections were qualified J as estimated and non-detects were UJ qualified as estimated non-detect.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	All samples were diluted to bring concentrations within the calibration range. The reporting limits have been adjusted accordingly. No qualification was made based on dilutions. No data usability issues were observed.
For TICs are there any system related compounds that should not be reported?	No.

Quantitation Limits and Data Assessment: Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the TO-15 analysis. These results were qualified as estimated (J) by the laboratory.

Data Validation Qualifiers Definitions:

J – The analyte QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. The 'J' qualified data may be biased high (+) or low (-) or the direction of the bias may be indeterminable.

UJ - The analyte was not detected above the reported sample quantitation limit. The analyte QC analysis fails outside the primary acceptance limits. The "UJ" qualified data are not excluded from further review or consideration. The 'UJ' qualified data may be biased low.

Summary of Findings

- 4-Methyl-2-pentanone was J qualified in several samples due to high LCS recovery and high CCV recovery.
- 4-Methyl-2-pentanone was UJ qualified in several samples due to high CCV recovery.
- Carbon tetrachloride was J qualified in several samples due to low LCS recovery.
- Carbon tetrachloride was UJ qualified in sample GC491-SV02-0326 and GC491-SV03-0326 due to low LCS recovery.
- 1,2-Dichloropropane and 2-hexanone were UJ qualified in all samples due to poor CCV recovery.

Table 2 - List of Positive Results for Blank Samples
None.

Table 2A - List of Samples Qualified for Method Blank Contamination
None.

Table 3 – List of LCS Recoveries outside Control Limits

Method	Sample Name	Sample Type	Analyte	LCS(D) R%	Low Limit	High Limit	Associated Samples	Qualifier
TO-15	BD60489-BS1	LCS	1,2-Dichloropropane	132	70	130	All Samples	None – High and ND
			2-Hexanone	150	70	130		None – High and ND
			4-Methyl-2-pentanone	145	70	130	GC491-BA01-0326 GC491-FA03-0326 GC491-FA04-0326 GC491-FA05-0326 GC491-OA01-0326	None – High and ND
							GC491-FA01-0326 GC491-FA02-0326 GC491-SV01-0326 GC491-SV02-0326 GC491-SV03-0326	J
			Carbon Tetrachloride	69.7	70	130	GC491-SV02-0326 GC491-SV03-0326	UJ
							GC491-BA01-0326 GC491-FA01-0326 GC491-FA02-0326 GC491-FA03-0326 GC491-FA04-0326 GC491-FA05-0326 GC491-OA01-0326 GC491-SV01-0326	J

Table 3A – List of LCS RPD outside Control Limits
None.

Table 4 – List of ICAL/ICV/CCV recoveries outside Control Limits

Method	Sample Name	Sample Type	Analyte	RRF, %RSD or %D	RRF, %RSD or %D Limit	Associated Samples	Qualifier
TO-15	SC60034	CAL	1,2,4-Trichlorobenzene	31.2	30	All Samples	None - ND
			Naphthalene	38.5	30		None - ND
TO-15	S6D0807-CCV1	CCV	1,2-Dichloropropane	38.8	30	All Samples	UJ
			2-Hexanone	50.4	30		UJ
			4-Methyl-2-pentanone	48.5	30	GC491-BA01-0326 GC491-FA03-0326 GC491-FA04-0326 GC491-FA05-0326 GC491-OA01-0326	UJ
						GC491-FA01-0326 GC491-FA02-0326 GC491-SV01-0326 GC491-SV02-0326 GC491-SV03-0326	J

Table 5 – Internal Standard Outside Control Limits

None.

Table 6 – Samples that were Re-analyzed/Diluted

Method	Batch	Sample	Laboratory ID	Analyte	Reason
TO-15	BD60489	GC491-SV01-0326	26C1106-01	All Analytes	1.66x Dilution
TO-15	BD60489	GC491-FA01-0326	26C1106-02	All Analytes	1.34x Dilution
TO-15	BD60489	GC491-SV02-0326	26C1106-03	All Analytes	2.59x Dilution
TO-15	BD60489	GC491-FA02-0326	26C1106-04	All Analytes	1.48x Dilution
TO-15	BD60489	GC491-SV03-0326	26C1106-05	All Analytes	1.73x Dilution
TO-15	BD60489	GC491-BA01-0326	26C1106-06	All Analytes	0.99x Dilution
TO-15	BD60489	GC491-FA03-0326	26C1106-07	All Analytes	1.02x Dilution
	BD60489		26C1106-07 RE1	Acetone	19.24x Dilution
TO-15	BD60489	GC491-FA04-0326	26C1106-08	All Analytes	0.94x Dilution
	BD60489		26C1106-08 RE1	Acetone	17.73x Dilution
TO-15	BD60489	GC491-FA05-0326	26C1106-09	All Analytes	0.89x Dilution

Method	Batch	Sample	Laboratory ID	Analyte	Reason
	BD60489		26C1106-09 RE1	Acetone	3.35x Dilution
TO-15	BD60489	GC491-OA01-0326	26C1106-10	All Analytes	1.20x Dilution

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: April 8, 2026	Completed by: Sayward Gohman-Kramer

Acronym List and Table Key:

AI	=	indoor ambient air
AO	=	outdoor ambient air
AS	=	sub slab soil vapor
Abs Diff	=	absolute difference
CCV	=	continuing calibration verification
COC	=	chain of custody
DUSR	=	data usability summary report
EPA	=	Environmental Protection Agency
FD	=	field duplicate
GC/MS	=	gas chromatography / mass spectrometry
ICAL	=	initial calibration
ICV	=	initial calibration verification
LCS	=	laboratory control sample
MB	=	method blank
MDL	=	method detection limit
N	=	normal (field) sample
NC	=	not calculated
ND	=	not detected
NYSDEC	=	New York State Department of Environmental Conservation
PQL	=	practical quantitation limit
QA	=	quality assurance
QC	=	quality control
RPD	=	relative percent difference
RRF	=	relative response factor
RSD	=	relative standard deviation
SDG	=	sample delivery group
TRG	=	target compound
%D	=	percent difference
%RSD	=	percent relative standard deviation
ug/m^3	=	microgram per cubic meter

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: January 21, 2025	Completed by: Sayward Gohman-Kramer

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- NYSDEC Division of Environmental Remediation Guidance for Data Deliverables and the Development of Data Usability Summary Reports (in DER-10, May 2010)
- EPA Region 2 Data Validation
    - SOP NO. HW-31, Revision 6, Volatile Organic Compounds in Air Contained in Canisters by Method TO-15

This validation was performed under Category B guidelines. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

2222222
Reference:

Project ID	Lab Work Order	Laboratory Report
EE1705007.0028	25L1344	York Analytical Laboratories – Richmond Hill, NY

Table 1 Sample Listing Summary

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Field QC	ID Corrections
25L1344	AS	GC493-SV01-1225	25L1344-01	12/23/2025 10:40		
25L1344	AI	GC493-BA01-1225	25L1344-02	12/23/2025 10:38		
25L1344	AO	GC493-OA01-1225	25L1344-03	12/23/2025 10:36		

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Table 1A Sample Test Summary

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
25L1344	AS	TO-15	Volatile Organic Compounds by GC/MS	1	N
25L1344	AI	TO-15	Volatile Organic Compounds by GC/MS	1	N
25L1344	AO	TO-15	Volatile Organic Compounds by GC/MS	1	N

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	No. The initial chain of custody did not include the correct naming scheme for the samples. The COC was revised prior to the laboratory reporting and no report revisions were needed. The sample collection times were not included on the COC. The correct times were recorded in the Qnopy form and included in this report.
Did coolers arrive at lab between 2 and 6ºC and in good condition as indicated on COC and Receipt Form?	Thermal preservation is not required.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples	No field duplicate associated with this SDG was collected. However, 1 per 20 field QC frequency will be evaluated at end of sampling event.
Case narrative present and complete?	Yes. The air canisters were batched certified to be below the reporting limit for all target analytes.
Any holding time violations?	No.

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Method Blanks Results (Table 2)
- LCS Outside Limits (Table 3)
- CCV/ICV Outside Limits (Table 4)
- Internal Standard Outside Limits (Table 5)
- Reanalysis/Dilution Results (Table 6)

Go to List

Volatile Organic Compounds by Method TO-15	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or field blanks (see Table 2)?	Yes. Isopropanol was detected below the reporting limit in method blank BL51984-BLK1.
For samples, if results are < 2 times the blank or < 4 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Isopropanol detection in sample GC493-SV01-1225 was greater than 2x the blank contamination; therefore, no qualification was made.
Is Laboratory QC frequency at least one blank and LCS with each batch?	Yes.
Is LCS within QC criteria (see Table 3)? If out, and the recovery is high with no positive values, then no data qualification is required.	Yes.
Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix (see Table 5)?	Yes.
Is initial calibration for target compounds <30 %RSD or curve fit? (see Table 4)	No. 1,2,4-Trichlorobenzene and benzyl chloride exhibited high %RSD in calibration curve SL50019. All associated samples were non-detect; therefore, no qualification was made.
Is the initial calibration verification for target compounds between laboratory limits or 70-130%? (see Table 4)	Yes.
Is continuing calibration for target compounds <30 %D? (see Table 4)	Yes.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	All samples were diluted to bring concentrations within the calibration range. The reporting limits have been adjusted accordingly. No qualification was made based on dilutions. No data usability issues were observed.
For TICs are there any system related compounds that should not be reported?	No.

Quantitation Limits and Data Assessment: Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the TO-15 analysis. These results were qualified as estimated (J) by the laboratory.

Summary of Findings
• No data usability issues were observed.

Table 2 - List of Positive Results for Blank Samples

Method	Sample Name	Sample Type	Analyte	Result	Qualifier	Units	MDL	PQL
TO-15	BL51984-BLK1	MB	Isopropanol	0.369	J	ug/m3	0.059	1.47

Table 2A - List of Samples Qualified for Method Blank Contamination
None.

Table 3 – List of LCS Recoveries outside Control Limits

Table 3A – List of LCS RPD outside Control Limits
None.

Table 4 – List of ICAL/ICV/CCV recoveries outside Control Limits

Method	Sample Name	Sample Type	Analyte	RRF, %RSD or %D	RRF, %RSD or %D Limit	Associated Samples	Qualifier
TO-15	SL50019	CAL	1,2,4-Trichlorobenzene	33.3	30	All Samples	None – ND
			Benzyl Chloride	37.6	30		None – ND

Table 5 – Internal Standard Outside Control Limits
None.

Table 6 – Samples that were Re-analyzed/Diluted

Method	Batch	Sample	Laboratory ID	Analyte	Reason
TO-15	BL51984	GC493-SV01-1225	25L1344-01	All Analytes	1.78x Dilution
TO-15	BA60063	GC493-BA01-1225	25L1344-02	All Analytes	0.80x Dilution
TO-15	BA60063	GC493-OA01-1225	25L1344-03	All Analytes	0.83x Dilution

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: January 21, 2025	Completed by: Sayward Gohman-Kramer

Acronym List and Table Key:

AI	=	indoor ambient air
AO	=	outdoor ambient air
AS	=	sub slab soil vapor
Abs Diff	=	absolute difference
CCV	=	continuing calibration verification
COC	=	chain of custody
DUSR	=	data usability summary report
EPA	=	Environmental Protection Agency
FD	=	field duplicate
GC/MS	=	gas chromatography / mass spectrometry
ICAL	=	initial calibration
ICV	=	initial calibration verification
LCS	=	laboratory control sample
MB	=	method blank
MDL	=	method detection limit
N	=	normal (field) sample
NC	=	not calculated
ND	=	not detected
NYSDEC	=	New York State Department of Environmental Conservation
PQL	=	practical quantitation limit
QA	=	quality assurance
QC	=	quality control
RPD	=	relative percent difference
RRF	=	relative response factor
RSD	=	relative standard deviation
SDG	=	sample delivery group
TRG	=	target compound
%D	=	percent difference
%RSD	=	percent relative standard deviation
ug/m^3	=	microgram per cubic meter

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: March 20, 2026	Completed by: Sayward Gohman-Kramer

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- NYSDEC Division of Environmental Remediation Guidance for Data Deliverables and the Development of Data Usability Summary Reports (in DER-10, May 2010)
- EPA Region 2 Data Validation
    - SOP NO. HW-31, Revision 6, Volatile Organic Compounds in Air Contained in Canisters by Method TO-15

This validation was performed under Category B guidelines. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

Project ID	Lab Work Order	Laboratory Report
EE1705007.0028	26B0829	York Analytical Laboratories – Richmond Hill, NY

Table 1 Sample Listing Summary

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Field QC	ID Corrections
26B0829	AS	GC494-SV01-0226	26B0829-01	2/17/2026 9:05		
26B0829	AI	GC494-BA01-0226	26B0829-02	2/17/2026 9:01		
26B0829	AI	GC494-FA01-0226	26B0829-03	2/17/2026 9:00		
26B0829	AI	GC494-FA02-0226	26B0829-04	2/17/2026 9:01		
26B0829	AO	GC494-OA01-0226	26B0829-05	2/17/2026 9:03		

Table 1A Sample Test Summary

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
26B0829	AS	TO-15	Volatile Organic Compounds by GC/MS	1	N
26B0829	AI	TO-15	Volatile Organic Compounds by GC/MS	3	N
26B0829	AO	TO-15	Volatile Organic Compounds by GC/MS	1	N

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	Yes.
Did coolers arrive at lab between 2 and 6°C and in good condition as indicated on COC and Receipt Form?	Thermal preservation is not required.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples	No field duplicate associated with this SDG was collected. However, 1 per 20 field QC frequency will be evaluated at end of sampling event.
Case narrative present and complete?	Yes. The air canisters were batched certified to be below the reporting limit for all target analytes.
Any holding time violations?	No.

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Method Blanks Results (Table 2)
- LCS Outside Limits (Table 3)
- CCV/ICV Outside Limits (Table 4)
- Internal Standard Outside Limits (Table 5)
- Reanalysis/Dilution Results (Table 6)

Go to List

Volatile Organic Compounds by Method TO-15	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or field blanks (see Table 2)?	No.
For samples, if results are < 2 times the blank or < 4 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Not applicable.
Is Laboratory QC frequency at least one blank and LCS with each batch?	Yes.
Is LCS within QC criteria (see Table 3)? If out, and the recovery is high with no positive values, then no data qualification is required.	No. Carbon tetrachloride was recovered below acceptance criteria in LCS BC60005-BS1. Sample detections were J qualified and non-detects were UJ qualified. Several compounds were recovered above acceptance criteria in LCS BC60005-BS1. These compounds were non-detect in all samples and were not qualified.
Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix (see Table 5)?	Yes.
Is initial calibration for target compounds <30 %RSD or curve fit? (see Table 4)	No. 1,2,4-Trichlorobenzene and benzyl chloride exhibited high %RSD in calibration curve SL50019. All associated samples were non-detect; therefore, no qualification was made.
Is the initial calibration verification for target compounds between laboratory limits or 70-130%? (see Table 4)	Yes.
Is continuing calibration for target compounds <30 %D? (see Table 4)	No. Several compounds were recovered outside the acceptance criteria in CCV S6C0201-CCV1. All sample detections were qualified J as estimated and non-detects were UJ qualified as estimated non-detect.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	All samples were diluted to bring concentrations within the calibration range. The reporting limits have been adjusted accordingly. No qualification was made based on dilutions. No data usability issues were observed.
For TICs are there any system related compounds that should not be reported?	No.

Quantitation Limits and Data Assessment: Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the TO-15 analysis. These results were qualified as estimated (J) by the laboratory.

Data Validation Qualifiers Definitions:

J – The analyte QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. The 'J' qualified data may be biased high (+) or low (-) or the direction of the bias may be indeterminable.

UJ - The analyte was not detected above the reported sample quantitation limit. The analyte QC analysis fails outside the primary acceptance limits. The "UJ" qualified data are not excluded from further review or consideration. The 'UJ' qualified data may be biased low.

Summary of Findings

- 1,4-Dichlorobenzene was J qualified in sample GC494-SV01-0226 due to high LCS and CCV recovery.
- 1,4-Dichlorobenzene was UJ qualified in all other samples due to high CCV recovery.
- Carbon tetrachloride was UJ qualified in sample GC494-SV01-0226 and was J qualified in all other samples due to low LCS and CCV recovery.
- 2-Hexanone was J qualified in sample GC494-FA01-0226 and was UJ qualified in all other samples due to high CCV recovery.
- Several compounds were UJ qualified in all samples due to high CCV recovery. See Table 4 for list of compounds.

Table 2 - List of Positive Results for Blank Samples
None.

Table 2A - List of Samples Qualified for Method Blank Contamination
None.

Table 3 – List of LCS Recoveries outside Control Limits

Method	Sample Name	Sample Type	Analyte	LCS(D) R%	Low Limit	High Limit	Associated Samples	Qualifier
TO-15	BC60005-BS1	LCS	1,2,4-Trichlorobenzene	170	70	130	All Samples	None – High and ND
			1,4-Dichlorobenzene	132	70	130	GC494-BA01-0226 GC494-FA01-0226 GC494-FA02-0226 GC494-OA01-0226	None – High and ND
							GC494-SV01-0226	J
			Benzyl Chloride	133	70	130	All Samples	None – High and ND
			Carbon Tetrachloride	56.7	70	130	GC494-SV01-0226	UJ
							GC494-BA01-0226 GC494-FA01-0226 GC494-FA02-0226 GC494-OA01-0226	J
			Naphthalene	155	70	130	All Samples	None – High and ND

Table 3A – List of LCS RPD outside Control Limits
None.

Table 4 – List of ICAL/ICV/CCV recoveries outside Control Limits

Method	Sample Name	Sample Type	Analyte	RRF, %RSD or %D	RRF, %RSD or %D Limit	Associated Samples	Qualifier
TO-15	SL50019	CAL	1,2,4-Trichlorobenzene	33.3	30	All Samples	None - ND
			Benzyl Chloride	37.6	30		None - ND
TO-15	S6C0201-CCV1	CCV	1,2,4-Trichlorobenzene	74.6	30	All Samples	UJ
			1,2-Dichlorobenzene	35.5	30	All Samples	UJ

Method	Sample Name	Sample Type	Analyte	RRF, %RSD or %D	RRF, %RSD or %D Limit	Associated Samples	Qualifier
			1,3-Dichlorobenzene	38.3	30	All Samples	UJ
			1,4-Dichlorobenzene	45.6	30	GC494-BA01-0226 GC494-FA01-0226 GC494-FA02-0226 GC494-OA01-0226	UJ
						GC494-SV01-0226	J
			2-Hexanone	41.7	30	GC494-BA01-0226 GC494-FA02-0226 GC494-OA01-0226 GC494-SV01-0226	UJ
						GC494-FA01-0226	J
			Benzyl Chloride	41.7	30	All Samples	UJ
			Carbon Tetrachloride	-49.2	30	GC494-SV01-0226	UJ
						GC494-BA01-0226 GC494-FA01-0226 GC494-FA02-0226 GC494-OA01-0226	J
			Hexachlorobutadiene	31.5	30	All Samples	UJ
			Naphthalene	63.5	30	All Samples	UJ

Table 5 – Internal Standard Outside Control Limits
None.

Table 6 – Samples that were Re-analyzed/Diluted

Method	Batch	Sample	Laboratory ID	Analyte	Reason
TO-15	BC60005	GC494-SV01-0226	26B0829-01	All Analytes	2.51x Dilution
TO-15	BC60005	GC494-BA01-0226	26B0829-02	All Analytes	0.95x Dilution
TO-15	BC60005	GC494-FA01-0226	26B0829-03	All Analytes	1.03x Dilution
TO-15	BC60005	GC494-FA02-0226	26B0829-04	All Analytes	1.05x Dilution
TO-15	BC60005	GC494-OA01-0226	26B0829-05	All Analytes	0.85x Dilution

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: March 20, 2026	Completed by: Sayward Gohman-Kramer

Acronym List and Table Key:

AI	=	indoor ambient air
AO	=	outdoor ambient air
AS	=	sub slab soil vapor
Abs Diff	=	absolute difference
CCV	=	continuing calibration verification
COC	=	chain of custody
DUSR	=	data usability summary report
EPA	=	Environmental Protection Agency
FD	=	field duplicate
GC/MS	=	gas chromatography / mass spectrometry
ICAL	=	initial calibration
ICV	=	initial calibration verification
LCS	=	laboratory control sample
MB	=	method blank
MDL	=	method detection limit
N	=	normal (field) sample
NC	=	not calculated
ND	=	not detected
NYSDEC	=	New York State Department of Environmental Conservation
PQL	=	practical quantitation limit
QA	=	quality assurance
QC	=	quality control
RPD	=	relative percent difference
RRF	=	relative response factor
RSD	=	relative standard deviation
SDG	=	sample delivery group
TRG	=	target compound
%D	=	percent difference
%RSD	=	percent relative standard deviation
ug/m^3	=	microgram per cubic meter

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: February 2, 2026	Completed by: Sayward Gohman-Kramer

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- NYSDEC Division of Environmental Remediation Guidance for Data Deliverables and the Development of Data Usability Summary Reports (in DER-10, May 2010)
- EPA Region 2 Data Validation
    - SOP NO. HW-31, Revision 6, Volatile Organic Compounds in Air Contained in Canisters by Method TO-15

This validation was performed under Category B guidelines. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

Project ID	Lab Work Order	Laboratory Report
EE1705007.0028	26A0959	York Analytical Laboratories – Richmond Hill, NY

Table 1 Sample Listing Summary

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Field QC	ID Corrections
26A0959	AS	GC495-SV01-0126	26A0959-01	1/20/2026 12:01		
26A0959	AS	GC495-SV02-0126	26A0959-02	1/20/2026 12:03		
26A0959	AI	GC495-BA02-0126	26A0959-03	1/20/2026 12: 03		
26A0959	AI	GC495-BA01-0126	26A0959-04	1/20/2026 12: 01		
26A0959	AO	GC495-OA01-0126	26A0959-05	1/20/2026 12:22		
26A0959	AI	GC495-FA01-0126	26A0959-06	1/20/2026 12:24		

Table 1A Sample Test Summary

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
26A0959	AS	TO-15	Volatile Organic Compounds by GC/MS	2	N
26A0959	AI	TO-15	Volatile Organic Compounds by GC/MS	3	N
26A0959	AO	TO-15	Volatile Organic Compounds by GC/MS	1	N

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	Yes.
Did coolers arrive at lab between 2 and 6°C and in good condition as indicated on COC and Receipt Form?	Thermal preservation is not required.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples	No field duplicate associated with this SDG was collected. However, 1 per 20 field QC frequency will be evaluated at end of sampling event.
Case narrative present and complete?	Yes. The air canisters were batched certified to be below the reporting limit for all target analytes.
Any holding time violations?	No.

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Method Blanks Results (Table 2)
- LCS Outside Limits (Table 3)
- CCV/ICV Outside Limits (Table 4)
- Internal Standard Outside Limits (Table 5)
- Reanalysis/Dilution Results (Table 6)

Go to List

Volatile Organic Compounds by Method TO-15	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or field blanks (see Table 2)?	Yes. Isopropanol was detected below the reporting limit in method blank BA61572-BLK1.
For samples, if results are < 2 times the blank or < 4 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Isopropanol detections in associated samples were greater than 2x the blank contamination; therefore, no qualifications were made.
Is Laboratory QC frequency at least one blank and LCS with each batch?	Yes.
Is LCS within QC criteria (see Table 3)? If out, and the recovery is high with no positive values, then no data qualification is required.	No. 1,2,4-Trichlorobenzene, hexachlorobutadiene, and naphthalene were recovered below acceptance criteria in LCS BA61570-BS1. Naphthalene was detected in associated samples GC495-SV01-0126 and GC495-SV02-0126; therefore, results were J qualified as estimated. Non-detect results were UJ qualified as estimated non-detect. 2-Hexanone was recovered above acceptance criteria in LCS BA61572-BS1. Associated samples were non-detect for this compound; therefore, no qualifications were made.
Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix (see Table 5)?	Yes.
Is initial calibration for target compounds <30 %RSD or curve fit? (see Table 4)	No. 1,2,4-Trichloroethene and benzyl chloride exhibited high %RSD in calibration curve SL50019. All associated samples were non-detect; therefore, no qualification was made.
Is the initial calibration verification for target compounds between laboratory limits or 70-130%? (see Table 4)	Yes.
Is continuing calibration for target compounds <30 %D? (see Table 4)	No. 1,2,4-Trichlorobenzene, hexachlorobutadiene, and naphthalene were recovered below acceptance criteria in CCV S6A2809-CCV1. Naphthalene was detected in associated samples GC495-SV01-0126 and GC495-SV02-0126; therefore, results were J qualified as estimated. Non-detect results were UJ qualified as estimated non-detect.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	All samples were diluted to bring concentrations within the calibration range. The reporting limits have been adjusted accordingly. No qualification was made based on dilutions. No data usability issues were observed.
For TICs are there any system related compounds that should not be reported?	No.

Quantitation Limits and Data Assessment: Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the TO-15 analysis. These results were qualified as estimated (J) by the laboratory.

Data Validation Qualifiers Definitions:

J – The analyte QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. The 'J' qualified data may be biased high (+) or low (-) or the direction of the bias may be indeterminable.

UJ - The analyte was not detected above the reported sample quantitation limit. The analyte QC analysis fails outside the primary acceptance limits. The "UJ" qualified data are not excluded from further review or consideration. The 'UJ' qualified data may be biased low.

Summary of Findings

- Naphthalene was J qualified in samples GC495-SV01-0126 and GC495-SV02-0126 due to low LCS and CCV recovery.
- 1,2,4-Trichlorobenzene and hexachlorobutadiene were UJ qualified in samples GC495-SV01-0126 and GC495-SV02-0126 due to low LCS and CCV recovery.

Table 2 - List of Positive Results for Blank Samples

Method	Sample Name	Sample Type	Analyte	Result	Qualifier	Units	MDL	PQL
TO-15	BA61572-BLK1	MB	Isopropanol	0.221	J	ug/m3	0.059	1.47

Table 2A - List of Samples Qualified for Method Blank Contamination
None.

Table 3 – List of LCS Recoveries outside Control Limits

Method	Sample Name	Sample Type	Analyte	LCS(D) R%	Low Limit	High Limit	Associated Samples	Qualifier
TO-15	BA61572-BS1	LCS	1,2,4-Trichlorobenzene	50.4	70	130	GC495-SV01-0126 GC495-SV02-0126	UJ
TO-15		LCS	Hexachlorobutadiene	42.1	70	130		UJ
TO-15		LCS	Naphthalene	56.9	70	130		J
TO-15	BA61572-BS1	LCS	2-Hexanone	132	70	130	GC495-BA01-0126 GC495-BA02-0126 GC495-FA01-0126 GC495-OA01-0126	None – High and ND

Table 3A – List of LCS RPD outside Control Limits
None.

Table 4 – List of ICAL/ICV/CCV recoveries outside Control Limits

Method	Sample Name	Sample Type	Analyte	RRF, %RSD or %D	RRF, %RSD or %D Limit	Associated Samples	Qualifier
TO-15	SL50019	ICAL	1,2,4-Trichlorobenzene	33.3	30	All Samples	None - ND
			Benzyl Chloride	37.6	30		None - ND
TO-15	S6A2809-CCV1	CCV	1,2,4-Trichlorobenzene	-50.5	30	GC495-SV01-0126 GC495-SV02-0126	UJ
			Hexachlorobutadiene	-60.6	30		UJ
			Naphthalene	-46.5	30		J

Table 5 – Internal Standard Outside Control Limits
None.

Table 6 – Samples that were Re-analyzed/Diluted

Method	Batch	Sample	Laboratory ID	Analyte	Reason
TO-15	BA61570	GC245-SV01-0126	26A0959-01	All Analytes	1.89x Dilution
TO-15	BA61570	GC245-SV02-0126	26A0959-02	All Analytes	1.90x Dilution
TO-15	BA61572	GC245-BA02-0126	26A0959-03	All Analytes	1.16x Dilution
TO-15	BA61572	GC245-BA01-0126	26A0959-04	All Analytes	1.12x Dilution
TO-15	BA61572	GC245-OA01-0126	26A0959-05	All Analytes	1.16x Dilution
TO-15	BA61572	GC245-FA01-0126	26A0959-06	All Analytes	1.14x Dilution

Acronym List and Table Key:

AI = indoor ambient air
AO = outdoor ambient air
AS = sub slab soil vapor
Abs Diff = absolute difference
CCV = continuing calibration verification
COC = chain of custody
DUSR = data usability summary report
EPA = Environmental Protection Agency
FD = field duplicate
GC/MS = gas chromatography / mass spectrometry
ICAL = initial calibration
ICV = initial calibration verification
LCS = laboratory control sample
MB = method blank
MDL = method detection limit
N = normal (field) sample
NC = not calculated
ND = not detected
NYSDEC = New York State Department of Environmental Conservation
PQL = practical quantitation limit
QA = quality assurance
QC = quality control
RPD = relative percent difference

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: February 2, 2026	Completed by: Sayward Gohman-Kramer

Acronym List and Table Key:

RRF	=	relative response factor
RSD	=	relative standard deviation
SDG	=	sample delivery group
TRG	=	target compound
%D	=	percent difference
%RSD	=	percent relative standard deviation
ug/m^3	=	microgram per cubic meter

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: March 20, 2026	Completed by: Sayward Gohman-Kramer

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- NYSDEC Division of Environmental Remediation Guidance for Data Deliverables and the Development of Data Usability Summary Reports (in DER-10, May 2010)
- EPA Region 2 Data Validation
    - SOP NO. HW-31, Revision 6, Volatile Organic Compounds in Air Contained in Canisters by Method TO-15

This validation was performed under Category B guidelines. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

Project ID	Lab Work Order	Laboratory Report
EE1705007.0028	26C0081	York Analytical Laboratories – Richmond Hill, NY

Table 1 Sample Listing Summary

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Field QC	ID Corrections
26C0081	AI	GC496-BA01-0226	26C0081-01	2/27/2026 8:33		
26C0081	AO	GC496-OA01-0226	26C0081-02	2/27/2026 8:34		

Table 1A Sample Test Summary

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
26C0081	AI	TO-15	Volatile Organic Compounds by GC/MS	1	N
26C0081	AO	TO-15	Volatile Organic Compounds by GC/MS	1	N

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	Yes.
Did coolers arrive at lab between 2 and 6°C and in good condition as indicated on COC and Receipt Form?	Thermal preservation is not required.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples	No field duplicate associated with this SDG was collected. However, 1 per 20 field QC frequency will be evaluated at end of sampling event.
Case narrative present and complete?	Yes. The air canisters were batched certified to be below the reporting limit for all target analytes.
Any holding time violations?	No.

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Method Blanks Results (Table 2)
- LCS Outside Limits (Table 3)
- CCV/ICV Outside Limits (Table 4)
- Internal Standard Outside Limits (Table 5)
- Reanalysis/Dilution Results (Table 6)

Go to List

Volatile Organic Compounds by Method TO-15	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or field blanks (see Table 2)?	No.
For samples, if results are < 2 times the blank or < 4 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Not applicable.
Is Laboratory QC frequency at least one blank and LCS with each batch?	Yes.
Is LCS within QC criteria (see Table 3)? If out, and the recovery is high with no positive values, then no data qualification is required.	No. Carbon tetrachloride was recovered above acceptance criteria in LCS BC60918-BS1. All samples were non-detect for this compound; therefore, no qualifications were made.
Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix (see Table 5)?	Yes.
Is initial calibration for target compounds <30 %RSD or curve fit? (see Table 4)	Yes.
Is the initial calibration verification for target compounds between laboratory limits or 70-130%? (see Table 4)	Yes.
Is continuing calibration for target compounds <30 %D? (see Table 4)	No. Several compounds were recovered outside the acceptance criteria in CCV S6C1634-CCV1. All samples were non-detect for these compounds and were UJ qualified as estimated non-detect.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	All samples were diluted to bring concentrations within the calibration range. The reporting limits have been adjusted accordingly. No qualification was made based on dilutions. No data usability issues were observed.
For TICs are there any system related compounds that should not be reported?	No.

Quantitation Limits and Data Assessment: Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the TO-15 analysis. These results were qualified as estimated (J) by the laboratory.

Data Validation Qualifiers Definitions:

UJ - The analyte was not detected above the reported sample quantitation limit. The analyte QC analysis fails outside the primary acceptance limits. The "UJ" qualified data are not excluded from further review or consideration. The 'UJ' qualified data may be biased low.

Summary of Findings
• 1,2-Dichlorotetrafluoroethane, carbon tetrachloride, and vinyl bromide were UJ qualified in all samples due to high CCV recovery.

Table 2 - List of Positive Results for Blank Samples
None.

Table 2A - List of Samples Qualified for Method Blank Contamination
None.

Table 3 – List of LCS Recoveries outside Control Limits

Method	Sample Name	Sample Type	Analyte	LCS(D) R%	Low Limit	High Limit	Associated Samples	Qualifier
TO-15	BC60918-BS1	LCS	Carbon Tetrachloride	148	70	130	All Samples	None – High and ND

Table 3A – List of LCS RPD outside Control Limits
None.

Table 4 – List of ICAL/ICV/CCV recoveries outside Control Limits

Method	Sample Name	Sample Type	Analyte	RRF, %RSD or %D	RRF, %RSD or %D Limit	Associated Samples	Qualifier
TO-15	S6C1634-CCV1	CCV	1,2-Dichlorotetrafluoroethane	36.8	30	All Samples	UJ
			Carbon Tetrachloride	57.8	30		UJ
			Vinyl Bromide	30.3	30		UJ

Table 5 – Internal Standard Outside Control Limits
None.

Table 6 – Samples that were Re-analyzed/Diluted

Method	Batch	Sample	Laboratory ID	Analyte	Reason
TO-15	BC60918	GC496-BA01-0226	26C0081-01	All Analytes	1.44x Dilution
TO-15	BC60918	GC496-OA01-0226	26C0081-02	All Analytes	0.85x Dilution

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: March 20, 2026	Completed by: Sayward Gohman-Kramer

Acronym List and Table Key:

AI	=	indoor ambient air
AO	=	outdoor ambient air
AS	=	sub slab soil vapor
Abs Diff	=	absolute difference
CCV	=	continuing calibration verification
COC	=	chain of custody
DUSR	=	data usability summary report
EPA	=	Environmental Protection Agency
FD	=	field duplicate
GC/MS	=	gas chromatography / mass spectrometry
ICAL	=	initial calibration
ICV	=	initial calibration verification
LCS	=	laboratory control sample
MB	=	method blank
MDL	=	method detection limit
N	=	normal (field) sample
NC	=	not calculated
ND	=	not detected
NYSDEC	=	New York State Department of Environmental Conservation
PQL	=	practical quantitation limit
QA	=	quality assurance
QC	=	quality control
RPD	=	relative percent difference
RRF	=	relative response factor
RSD	=	relative standard deviation
SDG	=	sample delivery group
TRG	=	target compound
%D	=	percent difference
%RSD	=	percent relative standard deviation
ug/m^3	=	microgram per cubic meter

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: December 29, 2025	Prepared by: Sayward Gohman-Kramer Reviewed by:

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- NYSDEC Division of Environmental Remediation Guidance for Data Deliverables and the Development of Data Usability Summary Reports (in DER-10, May 2010)
- EPA Region 2 Data Validation
    - SOP NO. HW-31, Revision 6, Volatile Organic Compounds in Air Contained in Canisters by Method TO-15

This validation was performed under Category B guidelines. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

Project ID	Lab Work Order	Laboratory Report
EE1705007.0028	25L0614	York Analytical Laboratories – Richmond Hill, NY

Table 1 Sample Listing Summary

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Field QC	ID Corrections
25L0614	AS	GC498-SV01-1225	25L0614-01	12/9/2025 10:31		
25L0614	AS	GC498-SV01-1225-D	25L0614-02	12/9/2025 10:31	FD	
25L0614	AI	GC498-BA01-1225	25L0614-03	12/9/2025 10:31		
25L0614	AI	GC498-FA01-1225	25L0614-04	12/9/2025 10:31		
25L0614	AI	GC498-FA01-1225-D	25L0614-05	12/9/2025 10:31	FD	
25L0614	AI	GC498-FA02-1225	25L0614-06	12/9/2025 10:31		
25L0614	AO	GC498-OA01-1225	25L0614-07	12/9/2025 10:31		
25L0614	AO	GC498-OA01-1225-D	25L0614-08	12/9/2025 10:31	FD	

Table 1A Sample Test Summary

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
25L0614	AS	TO-15	Volatile Organic Compounds by GC/MS	1	N
25L0614	AS	TO-15	Volatile Organic Compounds by GC/MS	1	FD
25L0614	AI	TO-15	Volatile Organic Compounds by GC/MS	3	N
25L0614	AI	TO-15	Volatile Organic Compounds by GC/MS	1	FD
25L0614	AO	TO-15	Volatile Organic Compounds by GC/MS	1	N
25L0614	AO	TO-15	Volatile Organic Compounds by GC/MS	1	FD

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: December 29, 2025	Prepared by: Sayward Gohman-Kramer Reviewed by:

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	Yes.
Did coolers arrive at lab between 2 and 6°C and in good condition as indicated on COC and Receipt Form?	Thermal preservation is not required.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples	However, 1 per 20 field QC frequency will be evaluated at end of sampling event. 3 Field Duplicate per 5 samples.
Case narrative present and complete?	Yes. The air canisters were batched certified to be below the reporting limit for all target analytes.
Any holding time violations?	No.

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Method Blanks Results (Table 2)
- LCS Outside Limits (Table 3)
- CCV/ICV Outside Limits (Table 4)
- Internal Standard Outside Limits (Table 5)
- Reanalysis/Dilution Results (Table 6)
- Duplicate Results (Table 7)

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Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: December 29, 2025	Prepared by: Sayward Gohman-Kramer Reviewed by:

Volatile Organic Compounds by Method TO-15	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or field blanks (see Table 2)?	No.
For samples, if results are < 2 times the blank or < 4 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Not applicable.
Is Laboratory QC frequency at least one blank and LCS with each batch?	Yes.
Is LCS within QC criteria (see Table 3)? If out, and the recovery is high with no positive values, then no data qualification is required.	No. Hexachlorobutadiene was recovered acceptance criteria in LCS BL50949-BS1. Associated samples were non-detect for this compound; therefore, no qualification was made.
Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix (see Table 5)?	Yes.
Is initial calibration for target compounds <30 %RSD or curve fit? (see Table 4)	No. 1,2,4-Trichlorobenzene and benzyl chloride exhibited high %RSD in calibration curve S5L0903. All associated samples were non-detect; therefore, no qualification was made.
Is the initial calibration verification for target compounds between laboratory limits or 70-130%? (see Table 4)	Yes.
Is continuing calibration for target compounds <30 %D? (see Table 4)	Yes.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	All samples were diluted to bring concentrations within the calibration range. The reporting limits have been adjusted accordingly. No qualification was made based on dilutions. No data usability issues were observed.
For TICs are there any system related compounds that should not be reported?	No.

Volatile Organic Compounds by Method TO-15	
Description	**Notes and Qualifiers**
Do duplicate results show good precision for all compounds except TICs (see Table 7)?	No. Carbon disulfide, naphthalene, and hexane were outside QC criteria of 50% RPD between samples GC498-FA01-1225 and its field duplicate GC498-FA01-1225-D. The difference between results was <2x the PQL; therefore, results were not qualified. Several compounds were outside QC criteria of 50% RPD between samples GC498-OA01-1225 and its field duplicate GC498-OA01-1225. When the difference between results was <2x PQL, results were not qualified. The difference between carbon tetrachloride results was >2x PQL; therefore, results were UJ/J qualified. Acetone, isopropanol, and tetrachloroethene were outside QC criteria of 50% RPD between samples GC498-SV01-1225 and its field duplicate GC498-SV01-1225-D. When the difference between results was <2x the PQL, results were not qualified. The difference between acetone results was <2x the PQL; therefore, results were J qualified.

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: December 29, 2025	Prepared by: Sayward Gohman-Kramer Reviewed by:

Quantitation Limits and Data Assessment: Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the TO-15 analysis. These results were qualified as estimated (J) by the laboratory.

Data Validation Qualifiers Definitions:

J – The analyte QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. The 'J' qualified data may be biased high (+) or low (-) or the direction of the bias may be indeterminable.

UJ - The analyte was not detected above the reported sample quantitation limit. The analyte QC analysis fails outside the primary acceptance limits. The "UJ" qualified data are not excluded from further review or consideration. The 'UJ' qualified data may be biased low.

Summary of Findings

- Carbon tetrachloride was UJ qualified in sample GC498-OA01-1225 and was J qualified in sample GC498-OA01-1225-D due to poor field duplicate RPD.
- Acetone was J qualified in samples GC498-SV01-1225 and GC498-SV01-1225-D due to poor field duplicate RPD.

Table 2 - List of Positive Results for Blank Samples
None.

Table 2A - List of Samples Qualified for Method Blank Contamination
None.

Table 3 – List of LCS Recoveries outside Control Limits

Method	Sample Name	Sample Type	Analyte	LCS(D) R%	Low Limit	High Limit	Associated Samples	Qualifier
TO-15	BL50949-BS1	LCS	Hexachlorobutadiene	133	70	130	GC498-SV01-1225 GC498-SV01-1225-D GC498-FA01-1225-D GC498-FA02-1225 GC498-OA01-1225 GC498-OA01-1225-D	None – High and ND

Table 3A – List of LCS RPD outside Control Limits
None.

Table 4 – List of ICAL/ICV/CCV recoveries outside Control Limits

Method	Sample Name	Sample Type	Analyte	RRF, %RSD or %D	RRF, %RSD or %D Limit	Associated Samples	Qualifier
TO-15	S5L0903	ICAL	1,2,4-Trichlorobenzene	33.3	30	All Samples	None - ND
			Benzyl Chloride	37.6	30		None - ND

Table 5 – Internal Standard Outside Control Limits
None.

Table 6 – Samples that were Re-analyzed/Diluted

Method	Batch	Sample	Laboratory ID	Analyte	Reason
TO-15	BL50949	GC498-SV01-1225	25L0614-01	All Analytes	1.38x Dilution
TO-15	BL50949	GC498-SV01-1225-D	25L0614-02	All Analytes	1.3x Dilution
TO-15	BL51075	GC498-BA01-1225	25L0614-03	All Analytes	0.88x Dilution
TO-15	BL51075	GC498-FA01-1225	25L0614-04	All Analytes	0.89x Dilution
TO-15	BL50949	GC498-FA01-1225-D	25L0614-05	All Analytes	1.15x Dilution

Method	Batch	Sample	Laboratory ID	Analyte	Reason
TO-15	BL50949	GC498-FA02-1225	25L0614-06	All Analytes	0.94x Dilution
TO-15	BL50949	GC498-OA01-1225-D	25L0614-08	All Analytes	0.74x Dilution

Table 7 – Summary of Duplicate Results

Method	Analyte	Unit	Matrix	PQL	GC506-FA01-1225	GC506-FA01-1225-D	RPD	RPD Rating	Qualifier
TO-15	1,2,4-Trimethylbenzene	ug/m3	AI	0.436	1.61	1.53	5.1%	Good	None
TO-15	1,3,5-Trimethylbenzene	ug/m3	AI	0.436	0.653	0.623	4.7%	Good	None
TO-15	Acetone	ug/m3	AI	10.5	24.3	31.1	24.5%	Good	None
TO-15	Benzene	ug/m3	AI	0.283	0.566	0.883	43.8%	Good	None
TO-15	Carbon Disulfide	ug/m3	AI	0.276	ND	0.466	NC	Poor	None - <2x PQL
TO-15	Chloroform	ug/m3	AI	0.433	0.649	0.787	19.2%	Good	None
TO-15	Chloromethane	ug/m3	AI	0.183	1.02	1.17	13.7%	Good	None
TO-15	Dichlorodifluoromethane	ug/m3	AI	0.438	1.84	2.51	30.8%	Good	None
TO-15	Ethylbenzene	ug/m3	AI	0.385	0.616	0.600	2.6%	Good	None
TO-15	Isopropanol	ug/m3	AI	1.31	4.46	5.41	19.3%	Good	None
TO-15	m,p-Xylene	ug/m3	AI	0.769	2.19	2.10	4.2%	Good	None
TO-15	Methyl Ethyl Ketone (2-Butanone)	ug/m3	AI	13.1	1.78	1.66	7.0%	Good	None
TO-15	Methylene Chloride	ug/m3	AI	1.85	0.431	0.480	10.8%	Good	None
TO-15	Naphthalene	ug/m3	AI	4.64	0.743	ND	NC	Poor	None - <2x PQL
TO-15	N-Hexane	ug/m3	AI	0.312	0.312	0.528	51.4%	Poor	None - <2x PQL
TO-15	o-Xylene	ug/m3	AI	0.385	0.846	0.800	5.6%	Good	None
TO-15	Tetrachloroethene (PCE)	ug/m3	AI	0.601	9.98	9.22	7.9%	Good	None
TO-15	Toluene	ug/m3	AI	0.334	1.77	2.43	31.4%	Good	None
TO-15	Trichlorofluoromethane	ug/m3	AI	0.498	1.29	1.55	18.3%	Good	None

Method	Analyte	Unit	Matrix	PQL	GC506-OA01-1225	GC506-OA01-1225-D	RPD	RPD Rating	Qualifier
TO-15	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	AO	0.770	ND	0.566	NC	Poor	None - <2x PQL
TO-15	2,2,4-Trimethylpentane	ug/m3	AO	0.235	ND	0.345	NC	Poor	None - <2x PQL
TO-15	Acetone	ug/m3	AO	11.9	21.5	4.93	125.4%	Poor	None - <2x PQL

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: December 29, 2025	Prepared by: Sayward Gohman-Kramer Reviewed by:

Method	Analyte	Unit	Matrix	PQL	GC506-OA01-1225	GC506-OA01-1225-D	RPD	RPD Rating	Qualifier
TO-15	Benzene	ug/m3	AO	0.321	0.995	0.731	30.6%	Good	None
TO-15	Carbon Tetrachloride	ug/m3	AO	0.190	ND	0.511	NC	Poor	J Flag
TO-15	Chloromethane	ug/m3	AO	0.208	1.22	1.01	18.8%	Good	None
TO-15	Dichlorodifluoromethane	ug/m3	AO	0.497	2.24	2.04	9.3%	Good	None
TO-15	Isopropanol	ug/m3	AO	1.48	3.04	1.56	64.3%	Poor	None - <2x PQL
TO-15	m,p-Xylene	ug/m3	AO	0.873	0.829	0.609	30.6%	Good	None
TO-15	Methyl Ethyl Ketone (2-Butanone)	ug/m3	AO	14.8	1.60	0.457	111.1%	Poor	None - <2x PQL
TO-15	Methylene Chloride	ug/m3	AO	2.09	0.419	0.410	2.2%	Good	None
TO-15	N-Hexane	ug/m3	AO	0.354	0.425	0.312	30.7%	Good	None
TO-15	Toluene	ug/m3	AO	0.379	1.93	1.17	49.0%	Good	None
TO-15	Trichlorofluoromethane	ug/m3	AO	0.565	1.41	1.33	5.8%	Good	None

Method	Analyte	Unit	Matrix	PQL	GC506-SV01-1225	GC506-SV01-1225-D	RPD	RPD Rating	Qualifier
TO-15	1,4-Dichlorobenzene	ug/m3	AS	0.832	6.91	6.72	2.8%	Good	None
TO-15	Acetone	ug/m3	AS	65.8	198	42.9	128.8%	Poor	J Flag
TO-15	Carbon Disulfide	ug/m3	AS	0.431	5.09	6.11	18.2%	Good	None - <2x PQL
TO-15	Cyclohexane	ug/m3	AS	0.476	74.9	94.0	22.6%	Good	None
TO-15	Isopropanol	ug/m3	AS	2.04	5.99	2.30	89.0%	Poor	None - <2x PQL
TO-15	Methyl Ethyl Ketone (2-Butanone)	ug/m3	AS	20.4	7.31	5.98	20.0%	Good	None
TO-15	N-Hexane	ug/m3	AS	0.488	44.1	57.5	26.4%	Good	None
TO-15	Tetrachloroethene (PCE)	ug/m3	AS	0.939	1.69	ND	NC	Poor	None - <2x PQL

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: December 29, 2025	Prepared by: Sayward Gohman-Kramer Reviewed by:

Acronym List and Table Key:

AI	=	indoor ambient air
AO	=	outdoor ambient air
AS	=	sub slab soil vapor
Abs Diff	=	absolute difference
CCV	=	continuing calibration verification
COC	=	chain of custody
DUSR	=	data usability summary report
EPA	=	Environmental Protection Agency
FD	=	field duplicate
GC/MS	=	gas chromatography / mass spectrometry
ICAL	=	initial calibration
ICV	=	initial calibration verification
LCS	=	laboratory control sample
MB	=	method blank
MDL	=	method detection limit
N	=	normal (field) sample
NC	=	not calculated
ND	=	not detected
NYSDEC	=	New York State Department of Environmental Conservation
PQL	=	practical quantitation limit
QA	=	quality assurance
QC	=	quality control
RPD	=	relative percent difference
RRF	=	relative response factor
RSD	=	relative standard deviation
SDG	=	sample delivery group
TRG	=	target compound
%D	=	percent difference
%RSD	=	percent relative standard deviation
ug/m^3	=	microgram per cubic meter

Data Usability Summary Report	Project: Gowanus Canal Groundwater
Date Completed: December 22, 2025	Completed by: Sayward Gohman-Kramer

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- NYSDEC Division of Environmental Remediation Guidance for Data Deliverables and the Development of Data Usability Summary Reports (in DER-10, May 2010)
- EPA Region 2 Data Validation SOPs
  - *SOP NO. HW-34A, Rev. 1, Trace Volatile Data Validation*
  - *SOP NO. HW-35A, Rev. 1, Semivolatile Data Validation*

The data validation was performed under Category B guidelines all analysis. Specific criteria for QC limits were obtained from the master QAPP. Compliance with the project QA program is indicated in the checklist and tables below. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

Project ID	Lab Work Order	Laboratory Report
EE1705007.0028	410-256846-1	Eurofins – Burlington

Table 1 Sample Listing Summary

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Field QC	ID Corrections
410-256846-1	WG	GC498-WG01-1225	410-256846-1	12/9/2025 10:35		
410-256846-1	WQ	TB-01	410-256846-2	12/9/2025 10:00	TB	

Table 1A Sample Test Summary

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
410-256846-1	WG	SW8260D	Volatile Organic Compounds by GC/MS	1	N
410-256846-1	WG	SW8270E	Semi-volatile Organic Compounds by GC/MS	1	N
410-256846-1	WQ	SW8270D	Volatile Organic Compounds by GC/MS	1	TB

Data Usability Summary Report	Project: Gowanus Canal Groundwater
Date Completed: December 22, 2025	Completed by: Sayward Gohman-Kramer

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	No. Sample preservation was not indicated on the COC however, the data is not used for compliance purposes; therefore, no qualification was made.
Did coolers arrive at lab between 2 and 6°C and in good condition as indicated on COC and Cooler Receipt Form?	Yes. Cooler temperature was 3.8℃ upon receipt at the laboratory.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples Trip Blank - Every cooler with VOCs Equipment Blank - 1/ set of samples per day for perfluorinated compounds and 1/ set per location for all other samples?	Field QC frequency will be evaluated at end of the sampling event. 1 Trip blank per cooler. No equipment blank included.
Case narrative present and complete?	Yes.
Any holding time violations?	No.

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Blank Results (Table 2)
- Samples Qualified for Blank Contamination (Table 2A and 2B)
- Surrogates Outside Limits (Table 3)
- LCS Outside Limits (Table 4 and 4A)
- ICV/CCV Outside Limits (Table 5)
- Internal Standards Outside Limits (Table 6)
- Reanalysis Results (Table 7)

Go to Tables List

Volatile Organic Compounds by GC/MS – Method 8260C	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or field blanks (see Table 2)?	No.
For samples, if results are < PQL or < 2 times the PQL for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Not applicable.
Are surrogates for method blanks and LCS within limits?	Yes
Are surrogates for samples within limits? (See Table 3). If not, were all samples reanalyzed for VOCs? Matrix effects should be established.	Yes.
Is Laboratory QC frequency at least one blank and LCS with each batch per 20 samples?	Yes.
Is LCS within QC criteria (see Table 4)? If out, and the recovery is high with no positive values, then no data qualification is required.	Yes.
Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix (see Table 6)?	Yes.
Is initial calibration for target compounds <20 %RSD or curve fit?	Yes.
Is %D in the initial and continuing calibration for target compounds less than method specifications?	VOC – No. Several compounds were recovered outside acceptance criteria in CCV 410-743052/3. All samples were non-detect for these compounds; therefore, results were UJ qualified as estimated non-detect. SVOC – Yes.
Were any samples reanalyzed or diluted (see Table 7)? For any sample reanalysis or dilutions, is only one reportable result flagged?	Sample GC498-WG01-1225 was diluted to bring concentrations within the calibration range. The reporting limits have been adjusted accordingly. No qualification was made based on dilutions. No data usability issues were observed.
For TICs are there any system related compounds that should not be reported?	No.

Quantitation Limits and Data Assessment: Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the analyses. These results were qualified as estimated (J) by the laboratory.

Data Validation Qualifiers Definitions:

UJ - The analyte was not detected above the reported sample quantitation limit. The analyte QC analysis fails outside the primary acceptance limits. The "UJ" qualified data are not excluded from further review or consideration. The 'UJ' qualified data may be biased low.

Summary of Findings

VOCs

- Several compounds were UJ qualified in all samples due to poor CCV recovery. See Table 5B for list of analytes.

SVOCs

- No data quality issues were identified.

Table 2 - List of Positive Results for Blank Samples
None.

Table 2A - List of Samples Qualified for Method Blank Contamination
None.

Table 3 - List of Samples with Surrogates outside Control Limits
None.

Table 4 - List of LCS Recoveries outside Control Limits
None.

Table 4A – List of LCS/LCSD RPDs outside Control Limits
None.

Table 5 – List of ICAL/ICV/CCV Recoveries outside Control Limits

Method	Sample Name	Sample Type	Analyte	Rec.	%D Limit	Associated Samples	Sample Qualifier
8206B	410-743052/3	CCV	Dichlorodifluoromethane	25.0	20	All Samples	UJ
			Bromomethane	22.0	20		UJ
			Trichlorofluoromethane	22.0	20		UJ
			1,1,2,2-Tetrachloroethane	26.0	20		UJ
			1,2-Dibromo-3-Chloropropane	-34.0	20		UJ

Table 6 – Internal Standards Outside Control Limits
None.

Table 7 –Samples that were Re-analyzed/Diluted

Method	Batch	Sample	Laboratory ID	Analyte	Reason
8260B	743052	GC498-WG01-1225	410-256846-1	All Analytes	10x Dilution due to foaming during initial purging
8270E	745956	GC498-WG01-1225	410-256846-1	4-Methylphenol Phenol	10x Dilution due to calibration range exceedance

Data Usability Summary Report	Project: Gowanus Canal Groundwater
Date Completed: December 22, 2025	Completed by: Sayward Gohman-Kramer

Acronym List and Table Key:

CCB = continuing calibration blank
CCV = continuing calibration verification
COC = chain of custody
DUSR = data usability summary report
FB = field blank
FD = field duplicate
GC/MS = gas chromatography / mass spectrometry
ICAL = initial calibration standard
ICV = initial calibration verification
LCS = laboratory control sample
LCSD = laboratory control sample duplicate
MB = method blank
MDL = method detection limit
µg/L = micrograms per liter
mg/L = milligrams per liter
MS = matrix spike
MSD = matrix spike duplicate
ng/L = nanograms per liter
N = normal (field) sample
NC = not calculated
ND = not detected
NP = not provided
NYSDEC = New York State Department of Environmental Conservation
PQL = practical quantitation limit
QA = quality assurance
QAPP = quality assurance project plan
QC = quality control
RPD = relative percent difference
SIM = selective ion monitoring
SDG = sample delivery group
SVOC = semi-volatile organic compounds
TIC = tentatively identified compounds
TB = trip blank
TRG = target compound
VOC = volatile organic compounds
WG = groundwater
WH = rinsate
WQ = water quality control matrix
%D = percent difference
%RSD = percent relative standard deviation

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: January 12, 2025	Prepared by: Sayward Gohman-Kramer Reviewed by:

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- NYSDEC Division of Environmental Remediation Guidance for Data Deliverables and the Development of Data Usability Summary Reports (in DER-10, May 2010)
- EPA Region 2 Data Validation
    - SOP NO. HW-31, Revision 6, Volatile Organic Compounds in Air Contained in Canisters by Method TO-15

This validation was performed under Category B guidelines. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

Project ID	Lab Work Order	Laboratory Report
EE1705007.0028	410-256247-1	Eurofins – Lancaster

Table 1 Sample Listing Summary

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Field QC	ID Corrections
410-256247-1	AS	GC499-SV01-1225	410-256247-1	12/4/2025 12:00		
410-256247-1	AI	GC499-BA01-1225	410-256247-2	12/4/2025 12:00		
410-256247-1	AI	GC499-FA01-1225	410-256247-3	12/4/2025 11:55		
410-256247-1	AO	GC499-OA01-1225	410-256247-4	12/4/2025 11:59		

Table 1A Sample Test Summary

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
410-256247-1	AS	TO-15	Volatile Organic Compounds by GC/MS	1	N
410-256247-1	AI	TO-15	Volatile Organic Compounds by GC/MS	2	N
410-256247-1	AO	TO-15	Volatile Organic Compounds by GC/MS	1	N

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: January 12, 2025	Prepared by: Sayward Gohman-Kramer Reviewed by:

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	Yes.
Did coolers arrive at lab between 2 and 6°C and in good condition as indicated on COC and Receipt Form?	Thermal preservation is not required.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples	No field duplicate associated with this SDG was collected. However, 1 per 20 field QC frequency will be evaluated at end of sampling event.
Case narrative present and complete?	Yes. The air canisters were batched certified to be below the reporting limit for all target analytes.
Any holding time violations?	No.

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Method Blanks Results (Table 2)
- LCS Outside Limits (Table 3)
- CCV/ICV Outside Limits (Table 4)
- Internal Standard Outside Limits (Table 5)
- Reanalysis/Dilution Results (Table 6)

Go to List

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: January 12, 2025	Prepared by: Sayward Gohman-Kramer Reviewed by:

Volatile Organic Compounds by Method TO-15	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or field blanks (see Table 2)?	No.
For samples, if results are < 2 times the blank or < 4 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Not applicable.
Is Laboratory QC frequency at least one blank and LCS with each batch?	Yes.
Is LCS within QC criteria (see Table 3)? If out, and the recovery is high with no positive values, then no data qualification is required.	Yes.
Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix (see Table 5)?	Yes.
Is initial calibration for target compounds <30 %RSD or curve fit? (see Table 4)	Yes.
Is the initial calibration verification for target compounds between laboratory limits or 70-130%? (see Table 4)	Yes.
Is continuing calibration for target compounds <30 %D? (see Table 4)	Yes.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	No.
For TICs are there any system related compounds that should not be reported?	No.

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: January 12, 2025	Prepared by: Sayward Gohman-Kramer Reviewed by:

Quantitation Limits and Data Assessment: Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the TO-15 analysis. These results were qualified as estimated (J) by the laboratory.

Summary of Findings
• No data usability issues were observed.

Table 2 - List of Positive Results for Blank Samples
None.

Table 2A - List of Samples Qualified for Method Blank Contamination
None.

Table 3 – List of LCS Recoveries outside Control Limits
None.

Table 3A – List of LCS RPD outside Control Limits
None.

Table 4 – List of ICAL/ICV/CCV recoveries outside Control Limits
None.

Table 5 – Internal Standard Outside Control Limits
None.

Table 6 – Samples that were Re-analyzed/Diluted
None.

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: January 12, 2025	Prepared by: Sayward Gohman-Kramer Reviewed by:

Acronym List and Table Key:

AI	=	indoor ambient air
AO	=	outdoor ambient air
AS	=	sub slab soil vapor
Abs Diff	=	absolute difference
CCV	=	continuing calibration verification
COC	=	chain of custody
DUSR	=	data usability summary report
EPA	=	Environmental Protection Agency
FD	=	field duplicate
GC/MS	=	gas chromatography / mass spectrometry
ICAL	=	initial calibration
ICV	=	initial calibration verification
LCS	=	laboratory control sample
MB	=	method blank
MDL	=	method detection limit
N	=	normal (field) sample
NC	=	not calculated
ND	=	not detected
NYSDEC	=	New York State Department of Environmental Conservation
PQL	=	practical quantitation limit
QA	=	quality assurance
QC	=	quality control
RPD	=	relative percent difference
RRF	=	relative response factor
RSD	=	relative standard deviation
SDG	=	sample delivery group
TRG	=	target compound
%D	=	percent difference
%RSD	=	percent relative standard deviation
ug/m^3	=	microgram per cubic meter

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: December 29, 2025	Prepared by: Sayward Gohman-Kramer Reviewed by:

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- NYSDEC Division of Environmental Remediation Guidance for Data Deliverables and the Development of Data Usability Summary Reports (in DER-10, May 2010)
- EPA Region 2 Data Validation
    - SOP NO. HW-31, Revision 6, Volatile Organic Compounds in Air Contained in Canisters by Method TO-15

This validation was performed under Category B guidelines. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

Project ID	Lab Work Order	Laboratory Report
EE1705007.0028	410-256288-1	Eurofins – Lancaster

Table 1 Sample Listing Summary

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Field QC	ID Corrections
410-256288-1	AS	GC500-SV01-1225	410-256288-1	12/2/2025 12:30		
410-256288-1	AI	GC500-BA01-1225	410-256288-2	12/2/2025 12:34		
410-256288-1	AO	GC500-OA01-1225	410-256288-3	12/2/2025 12:43		

Table 1A Sample Test Summary

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
410-256288-1	AS	TO-15	Volatile Organic Compounds by GC/MS	1	N
410-256288-1	AI	TO-15	Volatile Organic Compounds by GC/MS	1	N
410-256288-1	AO	TO-15	Volatile Organic Compounds by GC/MS	1	N

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	Yes.
Did coolers arrive at lab between 2 and 6°C and in good condition as indicated on COC and Receipt Form?	Thermal preservation is not required.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples	No field duplicate associated with this SDG was collected. However, 1 per 20 field QC frequency will be evaluated at end of sampling event.
Case narrative present and complete?	Yes. The air canisters were batched certified to be below the reporting limit for all target analytes.
Any holding time violations?	No.

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Method Blanks Results (Table 2)
- LCS Outside Limits (Table 3)
- CCV/ICV Outside Limits (Table 4)
- Internal Standard Outside Limits (Table 5)
- Reanalysis/Dilution Results (Table 6)

Go to List

Volatile Organic Compounds by Method TO-15	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or field blanks (see Table 2)?	Yes. Carbon disulfide was detected below the reporting limit in method blank 410-747482/7.
For samples, if results are < 2 times the blank or < 4 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Carbon disulfide detections were greater than 2x the blank contamination; therefore, no qualification was made.
Is Laboratory QC frequency at least one blank and LCS with each batch?	Yes.
Is LCS within QC criteria (see Table 3)? If out, and the recovery is high with no positive values, then no data qualification is required.	Yes.
Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix (see Table 5)?	Yes.
Is initial calibration for target compounds <30 %RSD or curve fit? (see Table 4)	Yes.
Is the initial calibration verification for target compounds between laboratory limits or 70-130%? (see Table 4)	Yes.
Is continuing calibration for target compounds <30 %D? (see Table 4)	Yes.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	No.
For TICs are there any system related compounds that should not be reported?	No.

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: December 29, 2025	Prepared by: Sayward Gohman-Kramer Reviewed by:

Quantitation Limits and Data Assessment: Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the TO-15 analysis. These results were qualified as estimated (J) by the laboratory.

Summary of Findings
• No data usability issues were observed.

Table 2 - List of Positive Results for Blank Samples

Method	Sample Name	Sample Type	Analyte	Result	Qualifier	Units	MDL	PQL
TO-15	410-2747482/7	MB	Carbon Disulfide	1.09	J	ug/m3	0.41	1.6

Table 2A - List of Samples Qualified for Method Blank Contamination
None.

Table 3 – List of LCS Recoveries outside Control Limits
None.

Table 3A – List of LCS RPD outside Control Limits
None.

Table 4 – List of ICAL/ICV/CCV recoveries outside Control Limits
None.

Table 5 – Internal Standard Outside Control Limits
None.

Table 6 – Samples that were Re-analyzed/Diluted
None.

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: December 29, 2025	Prepared by: Sayward Gohman-Kramer Reviewed by:

Acronym List and Table Key:

AI	=	indoor ambient air
AO	=	outdoor ambient air
AS	=	sub slab soil vapor
Abs Diff	=	absolute difference
CCV	=	continuing calibration verification
COC	=	chain of custody
DUSR	=	data usability summary report
EPA	=	Environmental Protection Agency
FD	=	field duplicate
GC/MS	=	gas chromatography / mass spectrometry
ICAL	=	initial calibration
ICV	=	initial calibration verification
LCS	=	laboratory control sample
MB	=	method blank
MDL	=	method detection limit
N	=	normal (field) sample
NC	=	not calculated
ND	=	not detected
NYSDEC	=	New York State Department of Environmental Conservation
PQL	=	practical quantitation limit
QA	=	quality assurance
QC	=	quality control
RPD	=	relative percent difference
RRF	=	relative response factor
RSD	=	relative standard deviation
SDG	=	sample delivery group
TRG	=	target compound
%D	=	percent difference
%RSD	=	percent relative standard deviation
ug/m^3	=	microgram per cubic meter

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: February 9, 2026	Completed by: Sayward Gohman-Kramer

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- NYSDEC Division of Environmental Remediation Guidance for Data Deliverables and the Development of Data Usability Summary Reports (in DER-10, May 2010)
- EPA Region 2 Data Validation
    - SOP NO. HW-31, Revision 6, Volatile Organic Compounds in Air Contained in Canisters by Method TO-15

This validation was performed under Category B guidelines. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

Project ID	Lab Work Order	Laboratory Report
EE1705007.0028	25L1494	York Analytical Laboratories – Richmond Hill, NY

Table 1 Sample Listing Summary

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Field QC	ID Corrections
25L1494	AS	GC502-SV01-1225	25L1494-01	12/30/2025 15:30		
25L1494	AI	GC502-BA01-1225	25L1494-02	12/30/2025 15:30		
25L1494	AO	GC502-OA01-1225	25L1494-03	12/30/2025 15:30		

Table 1A Sample Test Summary

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
25L1494	AS	TO-15	Volatile Organic Compounds by GC/MS	1	N
25L1494	AI	TO-15	Volatile Organic Compounds by GC/MS	1	N
25L1494	AO	TO-15	Volatile Organic Compounds by GC/MS	1	N

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	No. Samples were incorrectly named on the COC. The names were corrected by the laboratory.
Did coolers arrive at lab between 2 and 6°C and in good condition as indicated on COC and Receipt Form?	Thermal preservation is not required.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples	No field duplicate associated with this SDG was collected. However, 1 per 20 field QC frequency will be evaluated at end of sampling event.
Case narrative present and complete?	Yes. The air canisters were batched certified to be below the reporting limit for all target analytes.
Any holding time violations?	No.

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Method Blanks Results (Table 2)
- LCS Outside Limits (Table 3)
- CCV/ICV Outside Limits (Table 4)
- Internal Standard Outside Limits (Table 5)
- Reanalysis/Dilution Results (Table 6)

Go to List

Volatile Organic Compounds by Method TO-15	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or field blanks (see Table 2)?	Yes. Isopropanol was detected below the reporting limit in method blanks BA601321-BLK1 and BA60330-BLK1.
For samples, if results are < 2 times the blank or < 4 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Isopropanol detections were greater than 2x the blank contamination; therefore, no qualification was made.
Is Laboratory QC frequency at least one blank and LCS with each batch?	Yes.
Is LCS within QC criteria (see Table 3)? If out, and the recovery is high with no positive values, then no data qualification is required.	Yes.
Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix (see Table 5)?	Yes.
Is initial calibration for target compounds <30 %RSD or curve fit? (see Table 4)	No. 1,2,4-Trichlorobenzene and benzyl chloride exhibited high %RSD in calibration curve SL50019. All associated samples were non-detect; therefore, no qualification was made.
Is the initial calibration verification for target compounds between laboratory limits or 70-130%? (see Table 4)	Yes.
Is continuing calibration for target compounds <30 %D? (see Table 4)	Yes.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	All samples were diluted to bring concentrations within the calibration range. The reporting limits have been adjusted accordingly. No qualification was made based on dilutions. No data usability issues were observed.
For TICs are there any system related compounds that should not be reported?	No.

Quantitation Limits and Data Assessment: Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the TO-15 analysis. These results were qualified as estimated (J) by the laboratory.

Summary of Findings
• No data usability issues were observed.

Table 2 - List of Positive Results for Blank Samples

Method	Sample Name	Sample Type	Analyte	Result	Qualifier	Units	MDL	PQL
TO-15	BA60321-BLK1	MB	Isopropanol	0.295	J	ug/m3	0.0590	1.47
TO-15	BA60330-BLK1	MB	Isopropanol	0.320	J	ug/m3	0.0590	1.47

Table 2A - List of Samples Qualified for Method Blank Contamination
None.

Table 3 – List of LCS Recoveries outside Control Limits
None.

Table 3A – List of LCS RPD outside Control Limits
None.

Table 4 – List of ICAL/ICV/CCV recoveries outside Control Limits

Method	Sample Name	Sample Type	Analyte	RRF, %RSD or %D	RRF, %RSD or %D Limit	Associated Samples	Qualifier
TO-15	SL50019	ICAL	1,2,4-Trichlorobenzene	33.3	30	All Samples	None - ND
			Benzyl Chloride	37.6	30		None - ND

Table 5 – Internal Standard Outside Control Limits
None.

Table 6 – Samples that were Re-analyzed/Diluted

Method	Batch	Sample	Laboratory ID	Analyte	Reason
TO-15	BA60321	GC502-SV01-1225	25L1494-01	All Analytes	1.78x Dilution
TO-15	BA60330	GC502-BA01-1225	25L1494-02	All Analytes	1.1x Dilution
TO-15	BA60330	GC502-OA01-1225	25L1494-03	All Analytes	0.89x Dilution
				Acetone	3.35x Dilution

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: February 9, 2026	Completed by: Sayward Gohman-Kramer

Acronym List and Table Key:

AI	=	indoor ambient air
AO	=	outdoor ambient air
AS	=	sub slab soil vapor
Abs Diff	=	absolute difference
CCV	=	continuing calibration verification
COC	=	chain of custody
DUSR	=	data usability summary report
EPA	=	Environmental Protection Agency
FD	=	field duplicate
GC/MS	=	gas chromatography / mass spectrometry
ICAL	=	initial calibration
ICV	=	initial calibration verification
LCS	=	laboratory control sample
MB	=	method blank
MDL	=	method detection limit
N	=	normal (field) sample
NC	=	not calculated
ND	=	not detected
NYSDEC	=	New York State Department of Environmental Conservation
PQL	=	practical quantitation limit
QA	=	quality assurance
QC	=	quality control
RPD	=	relative percent difference
RRF	=	relative response factor
RSD	=	relative standard deviation
SDG	=	sample delivery group
TRG	=	target compound
%D	=	percent difference
%RSD	=	percent relative standard deviation
ug/m^3	=	microgram per cubic meter

Data Usability Summary Report	Project: Gowanus Canal Groundwater
Date Completed: January 7, 2025	Prepared by: Sayward Gohman-Kramer Reviewed by:

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- NYSDEC Division of Environmental Remediation Guidance for Data Deliverables and the Development of Data Usability Summary Reports (in DER-10, May 2010)
- EPA Region 2 Data Validation SOPs
  - *SOP NO. HW-34A, Rev. 1, Trace Volatile Data Validation*
  - *SOP NO. HW-35A, Rev. 1, Semivolatile Data Validation*

The data validation was performed under Category B guidelines all analysis. Specific criteria for QC limits were obtained from the master QAPP. Compliance with the project QA program is indicated in the checklist and tables below. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

Project ID	Lab Work Order	Laboratory Report
EE1705007.0028	460-342360-1	Eurofins – Edison

Table 1 Sample Listing Summary

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Field QC	ID Corrections
460-342360-1	WG	GC502-WG01-1225	460-342360-1	12/29/2025 10:02		

Table 1A Sample Test Summary

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
460-342360-1	WG	SW8260D	Volatile Organic Compounds by GC/MS	1	N
460-342360-1	WG	SW8270E	Semi-volatile Organic Compounds by GC/MS	1	N

Data Usability Summary Report	Project: Gowanus Canal Groundwater
Date Completed: January 7, 2025	Prepared by: Sayward Gohman-Kramer Reviewed by:

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	No.
Did coolers arrive at lab between 2 and 6°C and in good condition as indicated on COC and Cooler Receipt Form?	Yes.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples Trip Blank - Every cooler with VOCs Equipment Blank - 1/ set of samples per day for perfluorinated compounds and 1/ set per location for all other samples?	Field QC frequency will be evaluated at end of the sampling event. No trip blank included. No qualification is made however the end user is alerted to possible contamination. No equipment blank included.
Case narrative present and complete?	Yes.
Any holding time violations?	No.

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Blank Results (Table 2)
- Samples Qualified for Blank Contamination (Table 2A and 2B)
- Surrogates Outside Limits (Table 3)
- LCS Outside Limits (Table 4 and 4A)
- ICV/CCV Outside Limits (Table 5)
- Internal Standards Outside Limits (Table 6)
- Reanalysis Results (Table 7)

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Data Usability Summary Report	Project: Gowanus Canal Groundwater
Date Completed: January 7, 2025	Prepared by: Sayward Gohman-Kramer Reviewed by:

Volatile Organic Compounds by GC/MS – Method 8260C	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or field blanks (see Table 2)?	No.
For samples, if results are < PQL or < 2 times the PQL for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Not applicable.
Are surrogates for method blanks and LCS within limits?	Yes.
Are surrogates for samples within limits? (See Table 3). If not, were all samples reanalyzed for VOCs? Matrix effects should be established.	Yes.
Is Laboratory QC frequency at least one blank and LCS with each batch per 20 samples?	Yes.
Is LCS within QC criteria (see Table 4)? If out, and the recovery is high with no positive values, then no data qualification is required.	VOC – Yes. SVOC – Atrazine and benzaldehyde were recovered above acceptance criteria in LCS and LCSD 460-1083396/2-A and 460-1083396/3-A. Sample GC502-WG01-1225 was non-detect for these compounds; therefore, no qualifications were made.
Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix (see Table 6)?	Yes.
Is initial calibration for target compounds <20 %RSD or curve fit?	Yes.
Is %D in the initial and continuing calibration for target compounds less than method specifications?	No. VOC – Hexane and heptane were recovered outside acceptance criteria in ICV 460-1082998/18. Sample was non-detect for these compounds; therefore, results were UJ qualified as estimated non-detect. Heptane and 1,2,3-trichlorobenzene were recovered outside acceptance criteria in CCV 460-1083961/3. Sample was non-detect for these compounds; therefore, results were UJ qualified. SVOC – Several compounds were recovered outside acceptance criteria in CCV 460-1083694/2. Sample was non-detect for these compounds; therefore, results were UJ qualified as estimated non-detect.
Were any samples reanalyzed or diluted (see Table 7)? For any sample reanalysis or dilutions, is only one reportable result flagged?	No.
For TICs are there any system related compounds that should not be reported?	No.

Quantitation Limits and Data Assessment: Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the analyses. These results were qualified as estimated (J) by the laboratory.

Data Validation Qualifiers Definitions:

J – The analyte QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. The 'J' qualified data may be biased high (+) or low (-) or the direction of the bias may be indeterminable.

UJ - The analyte was not detected above the reported sample quantitation limit. The analyte QC analysis fails outside the primary acceptance limits. The "UJ" qualified data are not excluded from further review or consideration. The 'UJ' qualified data may be biased low.

Summary of Findings

VOCs

- Several compounds were UJ qualified in sample GC502-WG01-1225 due to poor ICV and CCV recovery. See Table 5B for list of analytes.

SVOCs

- Several compounds were UJ qualified in sample GC502-WG01-1225 due to poor CCV recovery. See Table 5B for list of analytes.

Table 2 - List of Positive Results for Blank Samples
None.

Table 2A - List of Samples Qualified for Method Blank Contamination
None.

Table 3 - List of Samples with Surrogates outside Control Limits
None.

Table 4 - List of LCS Recoveries outside Control Limits

Method	Sample ID	Sample Type	Analyte	Rec. (%)	Low Limit	High Limit	Associated Samples	Sample Qualifier
8270E	460-1083396/2-A 460-1083396/3-A	LCS LCSD	Atrazine	170 171	10	150	GC502-WG01-1225	None – High and ND
			Benzaldehyde	155 152	16	150		None – High and ND

Table 4A – List of LCS/LCSD RPDs outside Control Limits
None.

Table 5 – List of ICAL/ICV/CCV Recoveries outside Control Limits

Method	Sample Name	Sample Type	Analyte	Rec.	%D Limit	Associated Samples	Sample Qualifier
8260D	460-1082998/18	ICV	Hexane	-36.0	30	GC502-WG01-1225	UJ
			Heptane	-34.0	30		UJ
8260D	460-1083961/3	CCV	Heptane	-23.0	20	GC502-WG01-1225	UJ
			1,2,3-Trichlorobenzene	31.0	20		UJ
8270E	460-1083694/2	CCV	Benzaldehyde	-53.0	20	GC502-WG01-1225	UJ
			Bis(2-chloroisopropyl)ether	24.0	20		UJ
			4-Nitrophenol	30.0	20		UJ
			Di-n-octyl phthalate	26.0	20		UJ

Table 6 – Internal Standards Outside Control Limits
None.

Table 7 –Samples that were Re-analyzed/Diluted
None.

Data Usability Summary Report	Project: Gowanus Canal Groundwater
Date Completed: January 7, 2025	Prepared by: Sayward Gohman-Kramer Reviewed by:

Acronym List and Table Key:

CCB = continuing calibration blank
CCV = continuing calibration verification
COC = chain of custody
DUSR = data usability summary report
FB = field blank
FD = field duplicate
GC/MS = gas chromatography / mass spectrometry
ICAL = initial calibration standard
ICV = initial calibration verification
LCS = laboratory control sample
LCSD = laboratory control sample duplicate
MB = method blank
MDL = method detection limit
µg/L = micrograms per liter
mg/L = milligrams per liter
MS = matrix spike
MSD = matrix spike duplicate
ng/L = nanograms per liter
N = normal (field) sample
NC = not calculated
ND = not detected
NP = not provided
NYSDEC = New York State Department of Environmental Conservation
PQL = practical quantitation limit
QA = quality assurance
QAPP = quality assurance project plan
QC = quality control
RPD = relative percent difference
SIM = selective ion monitoring
SDG = sample delivery group
SVOC = semi-volatile organic compounds
TIC = tentatively identified compounds
TB = trip blank
TRG = target compound
VOC = volatile organic compounds
WG = groundwater
WH = rinsate
WQ = water quality control matrix
%D = percent difference
%RSD = percent relative standard deviation

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: February 2, 2026	Completed by: Sayward Gohman-Kramer

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- NYSDEC Division of Environmental Remediation Guidance for Data Deliverables and the Development of Data Usability Summary Reports (in DER-10, May 2010)
- EPA Region 2 Data Validation
    - SOP NO. HW-31, Revision 6, Volatile Organic Compounds in Air Contained in Canisters by Method TO-15

This validation was performed under Category B guidelines. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

Project ID	Lab Work Order	Laboratory Report
EE1705007.0028	410-260974-1	Eurofins – Lancaster

Table 1 Sample Listing Summary

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Field QC	ID Corrections
410-260974-1	AI	GC503-FA01-0126	410-260974-2	1/9/2026 9:38		
410-260974-1	AO	GC503-OA01-0126	410-260974-3	1/9/2026 9:45		

Table 1A Sample Test Summary

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
410-260974-1	AS	TO-15	Volatile Organic Compounds by GC/MS	1	N
410-260974-1	AI	TO-15	Volatile Organic Compounds by GC/MS	1	N
410-260974-1	AO	TO-15	Volatile Organic Compounds by GC/MS	1	N

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	No. Sample GC503-SV01-0126 did not collect enough sample volume to be analyzed. The laboratory cancelled analysis 1/10/2026
Did coolers arrive at lab between 2 and 6ºC and in good condition as indicated on COC and Receipt Form?	Thermal preservation is not required.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples	No field duplicate associated with this SDG was collected. However, 1 per 20 field QC frequency will be evaluated at end of sampling event.
Case narrative present and complete?	Yes. The air canisters were batched certified to be below the reporting limit for all target analytes.
Any holding time violations?	No.

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Method Blanks Results (Table 2)
- LCS Outside Limits (Table 3)
- CCV/ICV Outside Limits (Table 4)
- Internal Standard Outside Limits (Table 5)
- Reanalysis/Dilution Results (Table 6)

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Volatile Organic Compounds by Method TO-15	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or field blanks (see Table 2)?	Yes. Benzene was detected below the reporting limit in method blank 410-758788/16.
For samples, if results are < 2 times the blank or < 4 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Benzene detections were greater than 2x the blank contamination; therefore, no qualification was made.
Is Laboratory QC frequency at least one blank and LCS with each batch?	Yes.
Is LCS within QC criteria (see Table 3)? If out, and the recovery is high with no positive values, then no data qualification is required.	Yes.
Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix (see Table 5)?	Yes.
Is initial calibration for target compounds <30 %RSD or curve fit? (see Table 4)	No. Naphthalene exhibited high %RSD in calibration curve 80188. All associated samples were non-detect; therefore, no qualification was made.
Is the initial calibration verification for target compounds between laboratory limits or 70-130%? (see Table 4)	Yes.
Is continuing calibration for target compounds <30 %D? (see Table 4)	Yes.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	No.
For TICs are there any system related compounds that should not be reported?	No.

Quantitation Limits and Data Assessment: Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the TO-15 analysis. These results were qualified as estimated (J) by the laboratory.

Summary of Findings
• No data usability issues were observed.

Table 2 - List of Positive Results for Blank Samples

Method	Sample Name	Sample Type	Analyte	Result	Qualifier	Units	MDL	PQL
TO-15	410-758788/16	MB	Benzene	0.270	J	ug/m3	0.14	0.64

Table 2A - List of Samples Qualified for Method Blank Contamination
None.

Table 3 – List of LCS Recoveries outside Control Limits
None.

Table 3A – List of LCS RPD outside Control Limits
None.

Table 4 – List of ICAL/ICV/CCV recoveries outside Control Limits

Method	Sample Name	Sample Type	Analyte	RRF, %RSD or %D	RRF, %RSD or %D Limit	Associated Samples	Qualifier
TO-15	80188	ICAL	Naphthalene	35.6	30	All Samples	None - ND

Table 5 – Internal Standard Outside Control Limits
None.

Table 6 – Samples that were Re-analyzed/Diluted
None.

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: February 2, 2026	Completed by: Sayward Gohman-Kramer

Acronym List and Table Key:

AI	=	indoor ambient air
AO	=	outdoor ambient air
AS	=	sub slab soil vapor
Abs Diff	=	absolute difference
CCV	=	continuing calibration verification
COC	=	chain of custody
DUSR	=	data usability summary report
EPA	=	Environmental Protection Agency
FD	=	field duplicate
GC/MS	=	gas chromatography / mass spectrometry
ICAL	=	initial calibration
ICV	=	initial calibration verification
LCS	=	laboratory control sample
MB	=	method blank
MDL	=	method detection limit
N	=	normal (field) sample
NC	=	not calculated
ND	=	not detected
NYSDEC	=	New York State Department of Environmental Conservation
PQL	=	practical quantitation limit
QA	=	quality assurance
QC	=	quality control
RPD	=	relative percent difference
RRF	=	relative response factor
RSD	=	relative standard deviation
SDG	=	sample delivery group
TRG	=	target compound
%D	=	percent difference
%RSD	=	percent relative standard deviation
ug/m^3	=	microgram per cubic meter

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: January 8, 2026	Prepared by: Sayward Gohman-Kramer Reviewed by:

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- NYSDEC Division of Environmental Remediation Guidance for Data Deliverables and the Development of Data Usability Summary Reports (in DER-10, May 2010)
- EPA Region 2 Data Validation
    - SOP NO. HW-31, Revision 6, Volatile Organic Compounds in Air Contained in Canisters by Method TO-15

This validation was performed under Category B guidelines. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

Project ID	Lab Work Order	Laboratory Report
EE1705007.0028	410-258856-1	Eurofins – Lancaster

Table 1 Sample Listing Summary

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Field QC	ID Corrections
410-258856-1	AS	GC504-SV01-1225	410-258856-1	12/19/2025 8:42		
410-258856-1	AI	GC504-BA01-1225	410-258856-2	12/19/2025 8:42		
410-258856-1	AS	GC504-SV02-1225	410-258856-3	12/19/2025 8:40		
410-258856-1	AI	GC504-FA01-1225	410-258856-4	12/19/2025 8:39		
410-258856-1	AI	GC504-FA02-1225	410-258856-5	12/19/2025 8:40		
410-258856-1	AO	GC504-OA01-1225	410-258856-6	12/19/2025 8:41		

Table 1A Sample Test Summary

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
410-258856-1	AS	TO-15	Volatile Organic Compounds by GC/MS	2	N
410-258856-1	AI	TO-15	Volatile Organic Compounds by GC/MS	3	N
410-258856-1	AO	TO-15	Volatile Organic Compounds by GC/MS	1	N

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	Yes.
Did coolers arrive at lab between 2 and 6°C and in good condition as indicated on COC and Receipt Form?	Thermal preservation is not required.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples	No field duplicate associated with this SDG was collected. However, 1 per 20 field QC frequency will be evaluated at end of sampling event.
Case narrative present and complete?	Yes. The air canisters were batched certified to be below the reporting limit for all target analytes.
Any holding time violations?	No.

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Method Blanks Results (Table 2)
- LCS Outside Limits (Table 3)
- CCV/ICV Outside Limits (Table 4)
- Internal Standard Outside Limits (Table 5)
- Reanalysis/Dilution Results (Table 6)
- Duplicate Results (Table 7)

Go to List

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: January 8, 2026	Prepared by: Sayward Gohman-Kramer Reviewed by:

Volatile Organic Compounds by Method TO-15	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or field blanks (see Table 2)?	No.
For samples, if results are < 2 times the blank or < 4 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Not applicable.
Is Laboratory QC frequency at least one blank and LCS with each batch?	Yes.
Is LCS within QC criteria (see Table 3)? If out, and the recovery is high with no positive values, then no data qualification is required.	Yes.
Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix (see Table 5)?	Yes.
Is initial calibration for target compounds <30 %RSD or curve fit? (see Table 4)	Yes.
Is the initial calibration verification for target compounds between laboratory limits or 70-130%? (see Table 4)	Yes.
Is continuing calibration for target compounds <30 %D? (see Table 4)	Yes.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	Samples GC504-SV01-1225 and GC504-SV02-1225 was diluted to bring concentrations within the calibration range. The reporting limits have been adjusted accordingly. No qualification was made based on dilutions. No data usability issues were observed.
For TICs are there any system related compounds that should not be reported?	No.
Do duplicate results show good precision for all compounds except TICs (see Table 7)?	Yes.

Quantitation Limits and Data Assessment: Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the TO-15 analysis. These results were qualified as estimated (J) by the laboratory.

Summary of Findings
• No data usability issues were observed.

Table 2 - List of Positive Results for Blank Samples
None.

Table 2A - List of Samples Qualified for Method Blank Contamination
None.

Table 3 – List of LCS Recoveries outside Control Limits
None.

Table 3A – List of LCS RPD outside Control Limits
None.

Table 4 – List of ICAL/ICV/CCV recoveries outside Control Limits
None.

Table 5 – Internal Standard Outside Control Limits
None.

Table 6 – Samples that were Re-analyzed/Diluted

Method	Batch	Sample	Laboratory ID	Analyte	Reason
TO-15	751290	GC504-SV01-1225	410-258856-1	Acetone	10x Dilution
TO-15	751290	GC504-SV02-1225	410-258856-3	All Analytes	2x Dilution

Table 7 – Summary of Duplicate Results

Method	Analyte	Unit	Matrix	PQL	GC504-FA01-1225	410-258856-4 DU	RPD	RPD Rating	Qualifier
TO-15	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	AI	1.5	0.49	0.564	14.0%	Good	None
TO-15	1,2,4-Trimethylbenzene	ug/m3	AI	0.98	3.3	3.32	0.6%	Good	None
TO-15	1,3,5-Trimethylbenzene	ug/m3	AI	0.98	1.7	1.76	3.5%	Good	None
TO-15	2,2,4-Trimethylpentane	ug/m3	AI	0.93	0.65	0.599	8.2%	Good	None
TO-15	4-Ethyltoluene	ug/m3	AI	0.98	4.3	4.33	0.7%	Good	None
TO-15	Acetone	ug/m3	AI	12	28	29.8	6.2%	Good	None
TO-15	Benzene	ug/m3	AI	0.64	0.93	0.943	1.4%	Good	None
TO-15	Carbon Tetrachloride	ug/m3	AI	1.6	0.49	0.537	9.2%	Good	None
TO-15	Chlorobenzene	ug/m3	AI	0.22	0.50	0.485	3.0%	Good	None

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: January 8, 2026	Prepared by: Sayward Gohman-Kramer Reviewed by:

Method	Analyte	Unit	Matrix	PQL	GC504-FA01-1225	410-258856-4 DU	RPD	RPD Rating	Qualifier
TO-15	Chloromethane	ug/m3	AI	0.98	0.85	0.965	12.7%	Good	None
TO-15	Dibromochloromethane	ug/m3	AI	0.69	0.44	0.469	6.4%	Good	None
TO-15	Ethylbenzene	ug/m3	AI	2.5	2.5	2.60	3.9%	Good	None
TO-15	Hexachlorobutadiene	ug/m3	AI	0.87	1.0	1.00	0.0%	Good	None
TO-15	m,p-Xylene	ug/m3	AI	12	18	19.0	5.4%	Good	None
TO-15	Methyl Ethyl Ketone (2-Butanone)	ug/m3	AI	2.2	3.0	3.05	1.7%	Good	None
TO-15	Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	ug/m3	AI	1.5	6.7	7.10	5.8%	Good	None
TO-15	Naphthalene	ug/m3	AI	1.7	0.68	0.897	27.5%	Good	None
TO-15	N-Hexane	ug/m3	AI	0.82	0.85	0.800	6.1%	Good	None
TO-15	o-Xylene	ug/m3	AI	1.8	0.81	0.986	19.6%	Good	None
TO-15	Styrene	ug/m3	AI	0.87	1.3	1.30	0.0%	Good	None
TO-15	tert-Butyl Methyl Ether	ug/m3	AI	0.85	0.64	0.606	5.5%	Good	None
TO-15	trans-1,2-Dichloroethene	ug/m3	AI	0.75	2.1	2.05	2.4%	Good	None
TO-15	Vinyl Bromide	ug/m3	AI	1.1	1.3	1.34	3.0%	Good	None

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: January 8, 2026	Prepared by: Sayward Gohman-Kramer Reviewed by:

Acronym List and Table Key:

AI	=	indoor ambient air
AO	=	outdoor ambient air
AS	=	sub slab soil vapor
Abs Diff	=	absolute difference
CCV	=	continuing calibration verification
COC	=	chain of custody
DUSR	=	data usability summary report
EPA	=	Environmental Protection Agency
FD	=	field duplicate
GC/MS	=	gas chromatography / mass spectrometry
ICAL	=	initial calibration
ICV	=	initial calibration verification
LCS	=	laboratory control sample
MB	=	method blank
MDL	=	method detection limit
N	=	normal (field) sample
NC	=	not calculated
ND	=	not detected
NYSDEC	=	New York State Department of Environmental Conservation
PQL	=	practical quantitation limit
QA	=	quality assurance
QC	=	quality control
RPD	=	relative percent difference
RRF	=	relative response factor
RSD	=	relative standard deviation
SDG	=	sample delivery group
TRG	=	target compound
%D	=	percent difference
%RSD	=	percent relative standard deviation
ug/m^3	=	microgram per cubic meter

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: February 2, 2026	Completed by: Sayward Gohman-Kramer

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- NYSDEC Division of Environmental Remediation Guidance for Data Deliverables and the Development of Data Usability Summary Reports (in DER-10, May 2010)
- EPA Region 2 Data Validation
    - SOP NO. HW-31, Revision 6, Volatile Organic Compounds in Air Contained in Canisters by Method TO-15

This validation was performed under Category B guidelines. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

Project ID	Lab Work Order	Laboratory Report
EE1705007.0028	410-262001-3	Eurofins – Lancaster

Table 1 Sample Listing Summary

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Field QC	ID Corrections
410-262001-3	AI	GC505-SV01-0126	410-262001-8	1/14/2026 10:20		
410-262001-3	AI	GC505-BA01-0126	410-262001-9	1/14/2026 10:15		
410-262001-3	AI	GC505-BA02-0126	410-262001-10	1/14/2026 10:17		
410-262001-3	AI	GC505-BA03-0126	410-262001-11	1/14/2026 10:17		
410-262001-3	AO	GC505-OA01-0126	410-262001-12	1/14/2026 10:33		

Table 1A Sample Test Summary

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
410-262001-3	AS	TO-15	Volatile Organic Compounds by GC/MS	1	N
410-262001-3	AI	TO-15	Volatile Organic Compounds by GC/MS	3	N
410-262001-3	AO	TO-15	Volatile Organic Compounds by GC/MS	1	N

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	No.
Did coolers arrive at lab between 2 and 6°C and in good condition as indicated on COC and Receipt Form?	Thermal preservation is not required.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples	However, 1 per 20 field QC frequency will be evaluated at end of sampling event.
Case narrative present and complete?	Yes. The air canisters were batched certified to be below the reporting limit for all target analytes.
Any holding time violations?	No.

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Method Blanks Results (Table 2)
- LCS Outside Limits (Table 3)
- CCV/ICV Outside Limits (Table 4)
- Internal Standard Outside Limits (Table 5)
- Reanalysis/Dilution Results (Table 6)
- Duplicate Results (Table 7)

Go to List

Volatile Organic Compounds by Method TO-15	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or field blanks (see Table 2)?	Yes. Benzene was detected below the reporting limit in method blank 410-760440/7.
For samples, if results are < 2 times the blank or < 4 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Benzene was detected greater than 2x the blank contamination in all samples; therefore, no qualifications were made.
Is Laboratory QC frequency at least one blank and LCS with each batch?	Yes.
Is LCS within QC criteria (see Table 3)? If out, and the recovery is high with no positive values, then no data qualification is required.	Yes.
Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix (see Table 5)?	Yes.
Is initial calibration for target compounds <30 %RSD or curve fit? (see Table 4)	No. Naphthalene exhibited high %RSD in calibration curve 80188. All associated samples were non-detect; therefore, no qualification was made.
Is the initial calibration verification for target compounds between laboratory limits or 70-130%? (see Table 4)	Yes.
Is continuing calibration for target compounds <30 %D? (see Table 4)	Yes.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	Sample GC505-SV01-0126 was diluted to bring concentrations within the calibration range. The reporting limits have been adjusted accordingly. No qualification was made based on dilutions. No data usability issues were observed.
For TICs are there any system related compounds that should not be reported?	No.

Quantitation Limits and Data Assessment: Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the TO-15 analysis. These results were qualified as estimated (J) by the laboratory.

Summary of Findings
• No data usability issues were observed.

Table 2 - List of Positive Results for Blank Samples

Method	Sample Name	Sample Type	Analyte	Result	Qualifier	Units	MDL	PQL
TO-15	410-760440/7	MB	Benzene	0.256	J	ug/m3	0.14	0.64

Table 2A - List of Samples Qualified for Method Blank Contamination
None.

Table 3 – List of LCS Recoveries outside Control Limits
None.

Table 3A – List of LCS RPD outside Control Limits
None.

Table 4 – List of ICAL/ICV/CCV recoveries outside Control Limits

Method	Sample Name	Sample Type	Analyte	RRF, %RSD or %D	RRF, %RSD or %D Limit	Associated Samples	Qualifier
TO-15	80188	ICAL	Naphthalene	35.6	30	GC505-BA01-0126 GC505-BA02-0126 GC505-BA03-0126 GC505-OA01-0126	None - ND

Table 5 – Internal Standard Outside Control Limits
None.

Table 6 – Samples that were Re-analyzed/Diluted

Method	Batch	Sample	Laboratory ID	Analyte	Reason
TO-15	760314	GC505-SV01-0126	410-262001-8	All Analytes	2x Dilution

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: February 2, 2026	Completed by: Sayward Gohman-Kramer

Acronym List and Table Key:

AI	=	indoor ambient air
AO	=	outdoor ambient air
AS	=	sub slab soil vapor
Abs Diff	=	absolute difference
CCV	=	continuing calibration verification
COC	=	chain of custody
DUSR	=	data usability summary report
EPA	=	Environmental Protection Agency
FD	=	field duplicate
GC/MS	=	gas chromatography / mass spectrometry
ICAL	=	initial calibration
ICV	=	initial calibration verification
LCS	=	laboratory control sample
MB	=	method blank
MDL	=	method detection limit
N	=	normal (field) sample
NC	=	not calculated
ND	=	not detected
NYSDEC	=	New York State Department of Environmental Conservation
PQL	=	practical quantitation limit
QA	=	quality assurance
QC	=	quality control
RPD	=	relative percent difference
RRF	=	relative response factor
RSD	=	relative standard deviation
SDG	=	sample delivery group
TRG	=	target compound
%D	=	percent difference
%RSD	=	percent relative standard deviation
ug/m^3	=	microgram per cubic meter

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: December 30, 2025	Prepared by: Sayward Gohman-Kramer Reviewed by:

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- NYSDEC Division of Environmental Remediation Guidance for Data Deliverables and the Development of Data Usability Summary Reports (in DER-10, May 2010)
- EPA Region 2 Data Validation
    - SOP NO. HW-31, Revision 6, Volatile Organic Compounds in Air Contained in Canisters by Method TO-15

This validation was performed under Category B guidelines. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

Project ID	Lab Work Order	Laboratory Report
EE1705007.0028	410-256941-1	Eurofins – Lancaster

Table 1 Sample Listing Summary

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Field QC	ID Corrections
410-256941-1	AS	GC506-SV01-1225	410-256941-1	12/4/2025 12:33		
410-256941-1	AI	GC506-BA01-1225	410-256941-2	12/4/2025 12:33		
410-256941-1	AI	GC506-FA01-1225	410-256941-3	12/4/2025 12:31		
410-256941-1	AI	GC506-SA01-1225	410-256941-4	12/4/2025 12:50		
410-256941-1	AO	GC506-OA01-1225	410-256941-5	12/4/2025 12:32		

Table 1A Sample Test Summary

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
410-256941-1	AS	TO-15	Volatile Organic Compounds by GC/MS	1	N
410-256941-1	AI	TO-15	Volatile Organic Compounds by GC/MS	3	N
410-256941-1	AO	TO-15	Volatile Organic Compounds by GC/MS	1	N

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: December 30, 2025	Prepared by: Sayward Gohman-Kramer Reviewed by:

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	Yes.
Did coolers arrive at lab between 2 and 6°C and in good condition as indicated on COC and Receipt Form?	Thermal preservation is not required.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples	No field duplicate associated with this SDG was collected. However, 1 per 20 field QC frequency will be evaluated at end of sampling event.
Case narrative present and complete?	Yes. The air canisters were batched certified to be below the reporting limit for all target analytes.
Any holding time violations?	No.

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Method Blanks Results (Table 2)
- LCS Outside Limits (Table 3)
- CCV/ICV Outside Limits (Table 4)
- Internal Standard Outside Limits (Table 5)
- Reanalysis/Dilution Results (Table 6)

Go to List

Volatile Organic Compounds by Method TO-15	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or field blanks (see Table 2)?	No.
For samples, if results are < 2 times the blank or < 4 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Not applicable.
Is Laboratory QC frequency at least one blank and LCS with each batch?	Yes.
Is LCS within QC criteria (see Table 3)? If out, and the recovery is high with no positive values, then no data qualification is required.	Yes.
Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix (see Table 5)?	Yes.
Is initial calibration for target compounds <30 %RSD or curve fit? (see Table 4)	Yes.
Is the initial calibration verification for target compounds between laboratory limits or 70-130%? (see Table 4)	Yes.
Is continuing calibration for target compounds <30 %D? (see Table 4)	Yes.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	No.
For TICs are there any system related compounds that should not be reported?	No.

Quantitation Limits and Data Assessment: Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the TO-15 analysis. These results were qualified as estimated (J) by the laboratory.

Summary of Findings
• No data usability issues were observed.

Table 2 - List of Positive Results for Blank Samples
None.

Table 2A - List of Samples Qualified for Method Blank Contamination
None.

Table 3 – List of LCS Recoveries outside Control Limits
None.

Table 3A – List of LCS RPD outside Control Limits
None.

Table 4 – List of ICAL/ICV/CCV recoveries outside Control Limits
None.

Table 5 – Internal Standard Outside Control Limits
None.

Table 6 – Samples that were Re-analyzed/Diluted
None.

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: December 30, 2025	Prepared by: Sayward Gohman-Kramer Reviewed by:

Acronym List and Table Key:

AI	=	indoor ambient air
AO	=	outdoor ambient air
AS	=	sub slab soil vapor
Abs Diff	=	absolute difference
CCV	=	continuing calibration verification
COC	=	chain of custody
DUSR	=	data usability summary report
EPA	=	Environmental Protection Agency
FD	=	field duplicate
GC/MS	=	gas chromatography / mass spectrometry
ICAL	=	initial calibration
ICV	=	initial calibration verification
LCS	=	laboratory control sample
MB	=	method blank
MDL	=	method detection limit
N	=	normal (field) sample
NC	=	not calculated
ND	=	not detected
NYSDEC	=	New York State Department of Environmental Conservation
PQL	=	practical quantitation limit
QA	=	quality assurance
QC	=	quality control
RPD	=	relative percent difference
RRF	=	relative response factor
RSD	=	relative standard deviation
SDG	=	sample delivery group
TRG	=	target compound
%D	=	percent difference
%RSD	=	percent relative standard deviation
ug/m^3	=	microgram per cubic meter

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: April 23, 2026	Completed by: Sayward Gohman-Kramer

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- NYSDEC Division of Environmental Remediation Guidance for Data Deliverables and the Development of Data Usability Summary Reports (in DER-10, May 2010)
- EPA Region 2 Data Validation
    - SOP NO. HW-31, Revision 6, Volatile Organic Compounds in Air Contained in Canisters by Method TO-15

This validation was performed under Category B guidelines. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

Project ID	Lab Work Order	Laboratory Report
EE1705007.0028	26C1573	York Analytical Laboratories – Richmond Hill, NY

Table 1 Sample Listing Summary

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Field QC	ID Corrections
26C1573	AS	GC421-SV01-0126	26C1573-01	3/26/2026 11:54		
26C1573	AI	GC421-BA01-0126	26C1573-02	3/26/2026 11:54		
26C1573	AI	GC421-FA01-0126	26C1573-03	3/26/2026 12:00		
26C1573	AO	GC421-OA01-0126	26C1573-04	3/26/2026 11:56		

Table 1A Sample Test Summary

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
26C1573	AS	TO-15	Volatile Organic Compounds by GC/MS	1	N
26C1573	AI	TO-15	Volatile Organic Compounds by GC/MS	2	N
26C1573	AO	TO-15	Volatile Organic Compounds by GC/MS	1	N

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	Yes.
Did coolers arrive at lab between 2 and 6°C and in good condition as indicated on COC and Receipt Form?	Thermal preservation is not required.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples	No field duplicate associated with this SDG was collected. However, 1 per 20 field QC frequency will be evaluated at end of sampling event.
Case narrative present and complete?	Yes. The air canisters were batched certified to be below the reporting limit for all target analytes.
Any holding time violations?	No.

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Method Blanks Results (Table 2)
- LCS Outside Limits (Table 3)
- CCV/ICV Outside Limits (Table 4)
- Internal Standard Outside Limits (Table 5)
- Reanalysis/Dilution Results (Table 6)

Go to List

Volatile Organic Compounds by Method TO-15	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or field blanks (see Table 2)?	Yes. Isopropanol was detected below the reporting limit in method blank BD61221-BLK1.
For samples, if results are < 2 times the blank or < 4 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Isopropanol detections were greater than 2x the blank contamination; therefore, no qualification was made.
Is Laboratory QC frequency at least one blank and LCS with each batch?	Yes.
Is LCS within QC criteria (see Table 3)? If out, and the recovery is high with no positive values, then no data qualification is required.	No. 2-Hexanone and 4-methyl-2-pentanone were recovered above acceptance criteria in LCS BD61221-BS1. Sample detections were J qualified as estimated and non-detects were not qualified
Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix (see Table 5)?	Yes.
Is initial calibration for target compounds <30 %RSD or curve fit? (see Table 4)	No. 1,2,4-Trichlorobenzene and naphthalene exhibited high %RSD in calibration curve SC60034. Sample detections were J qualified as estimated and non-detects were not qualified.
Is the initial calibration verification for target compounds between laboratory limits or 70-130%? (see Table 4)	Yes.
Is continuing calibration for target compounds <30 %D? (see Table 4)	No. 2-Hexanone and 4-methyl-2-pentanone were recovered outside the acceptance criteria in CCV S6D2020-CCV1. All sample detections were qualified J as estimated and non-detects were UJ qualified as estimated non-detect.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	All samples were diluted to bring concentrations within the calibration range. The reporting limits have been adjusted accordingly. No qualification was made based on dilutions. No data usability issues were observed.
For TICs are there any system related compounds that should not be reported?	No.

Quantitation Limits and Data Assessment: Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the TO-15 analysis. These results were qualified as estimated (J) by the laboratory.

Data Validation Qualifiers Definitions:

J – The analyte QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. The 'J' qualified data may be biased high (+) or low (-) or the direction of the bias may be indeterminable.

UJ - The analyte was not detected above the reported sample quantitation limit. The analyte QC analysis fails outside the primary acceptance limits. The "UJ" qualified data are not excluded from further review or consideration. The 'UJ' qualified data may be biased low.

Summary of Findings

- 2-Hexanone and 4-methyl-2-pentanone were J qualified in several samples due to high LCS and CCV recovery. See Table 3 and Table 5 for list of samples.
- Naphthalene was J qualified in samples GC508-BA01-0326 and GC508-SV01-0326 due to poor initial calibration.
- 2-Hexanone was UJ qualified in sample GC508-SV01-0326 due to high CCV recovery.
- 4-Methyl-2-pentanone was UJ qualified in sample GC508-OA01-0326 due to high CCV recovery.

Table 2 - List of Positive Results for Blank Samples

Method	Sample Name	Sample Type	Analyte	Result	Qualifier	Units	MDL	PQL
TO-15	BD61221-BLK1	MB	Isopropanol	0.270	J	ug/m3	0.059	1.47

Table 2A - List of Samples Qualified for Method Blank Contamination

None.

Table 3 – List of LCS Recoveries outside Control Limits

Method	Sample Name	Sample Type	Analyte	LCS(D) R%	Low Limit	High Limit	Associated Samples	Qualifier
TO-15	BD61221-BS1	LCS	2-Hexanone	134	70	130	GC508-SV01-0326	None – High and ND
							GC508-BA01-0326 GC508-FA01-0326 GC508-OA01-0326	J
			4-Methyl-2-pentanone	139	70	130	GC508-OA01-0326	None – High and ND
							GC508-BA01-0326 GC508-FA01-0326 GC508-SV01-0326	J

Table 3A – List of LCS RPD outside Control Limits

None.

Table 4 – List of ICAL/ICV/CCV recoveries outside Control Limits

Method	Sample Name	Sample Type	Analyte	RRF, %RSD or %D	RRF, %RSD or %D Limit	Associated Samples	Qualifier
TO-15	SC60034	CAL	1,2,4-Trichlorobenzene	31.2	30	All Samples	None – ND
			Naphthalene	38.5	30	GC508-FA01-0326 GC508-OA01-0326	None – ND
						GC508-BA01-0326 GC508-SV01-0326	J
TO-15	S6D2020-CCV1	CCV	2-Hexanone	37.5	30	GC508-SV01-0326	UJ
						GC508-BA01-0326 GC508-FA01-0326 GC508-OA01-0326	J

Method	Sample Name	Sample Type	Analyte	RRF, %RSD or %D	RRF, %RSD or %D Limit	Associated Samples	Qualifier
			4-Methyl-2-pentanone	34.5	30	GC508-OA01-0326	UJ
						GC508-BA01-0326 GC508-FA01-0326 GC508-SV01-0326	J

Table 5 – Internal Standard Outside Control Limits
None.

Table 6 – Samples that were Re-analyzed/Diluted

Method	Batch	Sample	Laboratory ID	Analyte	Reason
TO-15	BD61221	GC421-SV01-0126	26C1573-01	All Analytes	1.67x Dilution
	BD61221		26C1573-01 RE1	Tetachloroethylene	16.66x Dilution
TO-15	BD61221	GC421-BA01-0126	26C1573-02	All Analytes	0.91x Dilution
TO-15	BD61221	GC421-FA01-0126	26C1573-03	All Analytes	0.94x Dilution
TO-15	BD61221	GC421-OA01-0126	26C1573-04	All Analytes	0.89x Dilution

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: April 23, 2026	Completed by: Sayward Gohman-Kramer

Acronym List and Table Key:

AI	=	indoor ambient air
AO	=	outdoor ambient air
AS	=	sub slab soil vapor
Abs Diff	=	absolute difference
CCV	=	continuing calibration verification
COC	=	chain of custody
DUSR	=	data usability summary report
EPA	=	Environmental Protection Agency
FD	=	field duplicate
GC/MS	=	gas chromatography / mass spectrometry
ICAL	=	initial calibration
ICV	=	initial calibration verification
LCS	=	laboratory control sample
MB	=	method blank
MDL	=	method detection limit
N	=	normal (field) sample
NC	=	not calculated
ND	=	not detected
NYSDEC	=	New York State Department of Environmental Conservation
PQL	=	practical quantitation limit
QA	=	quality assurance
QC	=	quality control
RPD	=	relative percent difference
RRF	=	relative response factor
RSD	=	relative standard deviation
SDG	=	sample delivery group
TRG	=	target compound
%D	=	percent difference
%RSD	=	percent relative standard deviation
ug/m^3	=	microgram per cubic meter

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: February 27, 2026	Completed by: Sayward Gohman-Kramer

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- NYSDEC Division of Environmental Remediation Guidance for Data Deliverables and the Development of Data Usability Summary Reports (in DER-10, May 2010)
- EPA Region 2 Data Validation
    - SOP NO. HW-31, Revision 6, Volatile Organic Compounds in Air Contained in Canisters by Method TO-15

This validation was performed under Category B guidelines. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

Project ID	Lab Work Order	Laboratory Report
EE1705007.0028	26B0307	York Analytical Laboratories – Richmond Hill, NY

Table 1 Sample Listing Summary

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Field QC	ID Corrections
26B0307	AS	GC509-SV01-0226	26B0307-01	2/3/2026 14:23		
26B0307	AI	GC509-BA01-0226	26B0307-02	2/3/2026 14:25		
26B0307	AS	GC509-SV02-0226	26B0307-03	2/3/2026 14:27		
26B0307	AI	GC509-BA02-0226	26B0307-04	2/3/2026 14:27		
26B0307	AS	GC509-SV03-0226	26B0307-05	2/3/2026 14:29		
26B0307	AI	GC509-BA03-0226	26B0307-06	2/3/2026 14:29		
26B0307	AS	GC509-SV04-0226	26B0307-07	2/3/2026 14:04		
26B0307	AI	GC509-BA04-0226	26B0307-08	2/3/2026 14:03		

Table 1A Sample Test Summary

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
26B0307	AS	TO-15	Volatile Organic Compounds by GC/MS	4	N
26B0307	AI	TO-15	Volatile Organic Compounds by GC/MS	4	N

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: February 27, 2026	Completed by: Sayward Gohman-Kramer

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	Yes.
Did coolers arrive at lab between 2 and 6°C and in good condition as indicated on COC and Receipt Form?	Thermal preservation is not required.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples	No field duplicate associated with this SDG was collected. However, 1 per 20 field QC frequency will be evaluated at end of sampling event.
Case narrative present and complete?	Yes. The air canisters were batched certified to be below the reporting limit for all target analytes.
Any holding time violations?	No.

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Method Blanks Results (Table 2)
- LCS Outside Limits (Table 3)
- CCV/ICV Outside Limits (Table 4)
- Internal Standard Outside Limits (Table 5)
- Reanalysis/Dilution Results (Table 6)

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Volatile Organic Compounds by Method TO-15	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or field blanks (see Table 2)?	Yes. 1,2,4-Trichlorobenzene and isopropanol were detected below the reporting limit in method blank BB60911-BLK1. Isopropanol was detected below the reporting limit in the method blank BB61000-BLK1.
For samples, if results are < 2 times the blank or < 4 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Isopropanol detections were greater than 2x the blank contamination; therefore, no qualification was made. 1,2,4-Trichlorobenzene was non-detect in associated samples; therefore, no qualifications were made.
Is Laboratory QC frequency at least one blank and LCS with each batch?	Yes.
Is LCS within QC criteria (see Table 3)? If out, and the recovery is high with no positive values, then no data qualification is required.	No. 1,2,4-Trichlorobenzene and naphthalene were recovered above acceptance criteria in LCSs BB60911-BS1 and BB61000-BS1. Associated sample detections were J qualified and non-detects did not require qualification. Carbon tetrachloride was recovered below acceptance criteria in LCSs BB60911-BS1 and BB61000-BS1. Associated samples were non-detect for this compound; therefore, results were UJ qualified.
Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix (see Table 5)?	Yes.
Is initial calibration for target compounds <30 %RSD or curve fit? (see Table 4)	No. 1,2,4-Trichlorobenzene and benzyl chloride exhibited high %RSD in calibration curve SL50019. All associated samples were non-detect; therefore, no qualification was made.
Is the initial calibration verification for target compounds between laboratory limits or 70-130%? (see Table 4)	Yes.
Is continuing calibration for target compounds <30 %D? (see Table 4)	No. 1,2,4-Trichlorobenzene and carbon tetrachloride were recovered outside the acceptance criteria in CCVs S6B1704-CCV1 and S6B1817-CCV1. All sample detections were qualified J as estimated and non-detects were UJ qualified as estimated non-detect.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	All samples were diluted to bring concentrations within the calibration range. The reporting limits have been adjusted accordingly. No qualification was made based on dilutions. No data usability issues were observed.

Volatile Organic Compounds by Method TO-15	
Description	**Notes and Qualifiers**
For TICs are there any system related compounds that should not be reported?	No.

Quantitation Limits and Data Assessment: Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the TO-15 analysis. These results were qualified as estimated (J) by the laboratory.

Data Validation Qualifiers Definitions:

J – The analyte QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. The 'J' qualified data may be biased high (+) or low (-) or the direction of the bias may be indeterminable.

UJ - The analyte was not detected above the reported sample quantitation limit. The analyte QC analysis fails outside the primary acceptance limits. The "UJ" qualified data are not excluded from further review or consideration. The 'UJ' qualified data may be biased low.

Summary of Findings

- Carbon tetrachloride was UJ qualified in all samples due to low LCS and CCV recovery.
- Naphthalene was J qualified in several samples due to high LCS recovery. See Table 3 for list of samples.
- 1,2,4-Trichlorobenzene was UJ qualified in all samples due to high CCV recovery.
- Naphthalene was UJ qualified in sample GC509-BA04-0226 and was J qualified in sample GC509-SV04-0226 due to high CCV recovery.

Table 2 - List of Positive Results for Blank Samples

Method	Sample Name	Sample Type	Analyte	Result	Qualifier	Units	MDL	PQL
TO-15	BB60911-BLK1	MB	1,2,4-Trichlorobenzene	0.371	J	ug/m3	0.283	37.1
TO-15	BB60911-BLK1	MB	Isopropanol	0.393	J	ug/m3	0.059	1.47
TO-15	BB61000-BLK1	MB	Isopropanol	0.369	J	ug/m3	0.059	1.47

Table 2A - List of Samples Qualified for Method Blank Contamination
None.

Table 3 – List of LCS Recoveries outside Control Limits

Method	Sample Name	Sample Type	Analyte	LCS(D) R%	Low Limit	High Limit	Associated Samples	Qualifier
TO-15	BB60911-BS1	LCS	1,2,4-Trichlorobenzene	141	70	130	GC509-SV01-0226 GC509-BA01-0226	None – High and ND
			Carbon Tetrachloride	47	70	130	GC509-SV02-0226 GC509-BA02-0226 GC509-SV03-0226 GC509-BA03-0226	UJ
			Naphthalene	135	70	130	GC509-BA01-0226 GC509-BA02-0226 GC509-BA03-0226	None – High and ND
							GC509-SV01-0226 GC509-SV02-0226 GC509-SV03-0226	J
TO-15	BB60911-BS1	LCS	1,2,4-Trichlorobenzene	141	70	130	GC509-SV04-0226 GC509-BA04-0226	None – High and ND
			Carbon Tetrachloride	47	70	130		UJ
			Naphthalene	135	70	130	GC509-BA04-0226	None – High and ND
							GC509-SV04-0226	J

Table 3A – List of LCS RPD outside Control Limits
None.

Table 4 – List of ICAL/ICV/CCV recoveries outside Control Limits

Method	Sample Name	Sample Type	Analyte	RRF, %RSD or %D	RRF, %RSD or %D Limit	Associated Samples	Qualifier
TO-15	SL50019	CAL	1,2,4-Trichlorobenzene	33.3	30	All Samples	None - ND
			Benzyl Chloride	37.6	30		None - ND
TO-15	S6B1704-CCV1	CCV	1,2,4-Trichlorobenzene	33.4	30	GC509-SV01-0226 GC509-BA01-0226 GC509-SV02-0226 GC509-BA02-0226 GC509-SV03-0226 GC509-BA03-0226	UJ
			Carbon Tetrachloride	-56.2	30		UJ
TO-15	S6B1817-CCV1	CCV	1,2,4-Trichlorobenzene	36.3	30	GC509-SV04-0226 GC509-BA04-0226	UJ
			Carbon Tetrachloride	-58.6	30		UJ
			Naphthalene	32.2	30	GC509-BA04-0226	UJ
						GC509-SV04-0226	J

Table 5 – Internal Standard Outside Control Limits
None.

Table 6 – Samples that were Re-analyzed/Diluted

Method	Batch	Sample	Laboratory ID	Analyte	Reason
TO-15	BB60911	GC509-SV01-0226	26B0307-01	All Analytes	2.29x Dilution
	BB60911		26B0307-01 RE1	Acetone	4.59x Dilution
TO-15	BB60911	GC509-BA01-0226	26B0307-02	All Analytes	0.96x Dilution
TO-15	BB60911	GC509-SV02-0226	26B0307-03	All Analytes	2.49x Dilution
	BB60911		26B0307-03 RE1	Tetrachloroethene	9.97x Dilution
TO-15	BB60911	GC509-BA02-0226	26B0307-04	All Analytes	0.96x Dilution
TO-15	BB60911	GC509-SV03-0226	26B0307-05	All Analytes	3.45x Dilution
	BB60911		26B0307-05 RE1	Tetrachloroethene	17.7x Dilution
TO-15	BB60911	GC509-BA03-0226	26B0307-06	All Analytes	1.45x Dilution
TO-15	BB61000	GC509-SV04-0226	26B0307-07	All Analytes	1.86x Dilution
TO-15	BB61000	GC509-BA04-0226	26B0307-08	All Analytes	0.93x Dilution

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: February 27, 2026	Completed by: Sayward Gohman-Kramer

Acronym List and Table Key:

AI	=	indoor ambient air
AO	=	outdoor ambient air
AS	=	sub slab soil vapor
Abs Diff	=	absolute difference
CCV	=	continuing calibration verification
COC	=	chain of custody
DUSR	=	data usability summary report
EPA	=	Environmental Protection Agency
FD	=	field duplicate
GC/MS	=	gas chromatography / mass spectrometry
ICAL	=	initial calibration
ICV	=	initial calibration verification
LCS	=	laboratory control sample
MB	=	method blank
MDL	=	method detection limit
N	=	normal (field) sample
NC	=	not calculated
ND	=	not detected
NYSDEC	=	New York State Department of Environmental Conservation
PQL	=	practical quantitation limit
QA	=	quality assurance
QC	=	quality control
RPD	=	relative percent difference
RRF	=	relative response factor
RSD	=	relative standard deviation
SDG	=	sample delivery group
TRG	=	target compound
%D	=	percent difference
%RSD	=	percent relative standard deviation
ug/m^3	=	microgram per cubic meter

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: March 5, 2026	Completed by: Sayward Gohman-Kramer

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- NYSDEC Division of Environmental Remediation Guidance for Data Deliverables and the Development of Data Usability Summary Reports (in DER-10, May 2010)
- EPA Region 2 Data Validation
    - SOP NO. HW-31, Revision 6, Volatile Organic Compounds in Air Contained in Canisters by Method TO-15

This validation was performed under Category B guidelines. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

Project ID	Lab Work Order	Laboratory Report
EE1705007.0028	26B0187	York Analytical Laboratories – Richmond Hill, NY

Table 1 Sample Listing Summary

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Field QC	ID Corrections
26B0187	AS	GC510-SV01-0226	26B0187-01	2/3/2026 12:25		
26B0187	AI	GC510-BA01-0226	26B0187-02	2/3/2026 12:27		
26B0187	AS	GC510-SV02-0226	26B0187-03	2/3/2026 14:16		
26B0187	AI	GC510-BA02-0226	26B0187-04	2/3/2026 14:16		
26B0187	AS	GC510-SV03-0226	26B0187-05	2/3/2026 12:24		
26B0187	AI	GC510-BA03-0226	26B0187-06	2/3/2026 12:45		

Table 1A Sample Test Summary

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
26B0187	AS	TO-15	Volatile Organic Compounds by GC/MS	3	N
26B0187	AI	TO-15	Volatile Organic Compounds by GC/MS	3	N

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	Yes.
Did coolers arrive at lab between 2 and 6°C and in good condition as indicated on COC and Receipt Form?	Thermal preservation is not required.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples	No field duplicate associated with this SDG was collected. However, 1 per 20 field QC frequency will be evaluated at end of sampling event.
Case narrative present and complete?	Yes. The air canisters were batched certified to be below the reporting limit for all target analytes.
Any holding time violations?	No.

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Method Blanks Results (Table 2)
- LCS Outside Limits (Table 3)
- CCV/ICV Outside Limits (Table 4)
- Internal Standard Outside Limits (Table 5)
- Reanalysis/Dilution Results (Table 6)

Go to List

Volatile Organic Compounds by Method TO-15	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or field blanks (see Table 2)?	Yes. Isopropanol was detected below acceptance criteria in method blank BB60610-BLK1
For samples, if results are < 2 times the blank or < 4 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Isopropanol detections were greater than 2x the blank contamination; therefore, no qualification was made.
Is Laboratory QC frequency at least one blank and LCS with each batch?	Yes.
Is LCS within QC criteria (see Table 3)? If out, and the recovery is high with no positive values, then no data qualification is required.	No. Toluene was recovered above acceptance criteria in LCS BB60610-BS1. Associated samples GC510-SV02-0226 and GC510-BA02-0226 detections were J qualified as estimated. 1,2,4-Trichlorobezene and naphthalene were recovered above acceptance criteria in LCS BB60683-BS1. 1,2,4-Trichlorobenzene was non-detect in associated samples GC510-SV03-0226 and GC510-BA03-0226; therefore, no qualifications were made. Naphthalene was J qualified as estimated in these samples. Carbon tetrachloride was recovered below acceptance criteria in LCS BB60683-BS1. Associated samples GC510-SV03-0226 and GC510-BA03-0226 were non-detect for this compound; therefore, result was UJ qualified. Carbon tetrachloride, hexachlorobutadiene, and naphthalene were recovered below acceptance criteria in LCS BB60763-BS1. When associated samples GC510-SV03-0226 and GC510-BA03-0226 were non-detect, results were UJ qualified and detected results were J qualified as estimated.
Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix (see Table 5)?	Yes.
Is initial calibration for target compounds <30 %RSD or curve fit? (see Table 4)	No. 1,2,4-Trichlorobenzene and benzyl chloride exhibited high %RSD in calibration curve SL50019. All associated samples were non-detect; therefore, no qualification was made.
Is the initial calibration verification for target compounds between laboratory limits or 70-130%? (see Table 4)	Yes.

Volatile Organic Compounds by Method TO-15	
Description	**Notes and Qualifiers**
Is continuing calibration for target compounds <30 %D? (see Table 4)	No. Several compounds were recovered outside the acceptance criteria in CCVs S6B1108-CCV1, S6B1209-CCV1, and S6B1317-CCV1. All samples were non-detect for associated compounds; therefore, results were UJ qualified as estimated non-detect.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	All samples were diluted to bring concentrations within the calibration range. The reporting limits have been adjusted accordingly. No qualification was made based on dilutions. No data usability issues were observed. Isopropanol was recovered above the calibration range for sample GC510-BA03-0226. The laboratory qualified this as E for estimated. Samples were qualified J as estimated.
For TICs are there any system related compounds that should not be reported?	No.

Quantitation Limits and Data Assessment: Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the TO-15 analysis. These results were qualified as estimated (J) by the laboratory.

Data Validation Qualifiers Definitions:

J – The analyte QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. The 'J' qualified data may be biased high (+) or low (-) or the direction of the bias may be indeterminable.

UJ - The analyte was not detected above the reported sample quantitation limit. The analyte QC analysis fails outside the primary acceptance limits. The "UJ" qualified data are not excluded from further review or consideration. The 'UJ' qualified data may be biased low.

Summary of Findings

- Toluene was J qualified in samples GC510-BA02-0226 and GC510-SV02-0226 due to high LCS recovery.
- Naphthalene was J qualified in samples GC510-BA03-0226, GC510-SV03-0226, and GC510-BA01-0226 and was UJ qualified in GC510-SV01-0226 due to poor LCS recovery.
- Carbon tetrachloride was UJ qualified in several samples due to low LCS and CCV recovery. See Table 3 and Table 5 for list of samples.
- Hexachlorobutadiene was UJ qualified GC510-BA01-0226 and GC510-SV01-0226 due to low LCS and CCV recovery.
- 1,2,4-Trichlorobenzene was UJ qualified in samples GC510-BA02-0226 and GC510-SV02-0226 due to low CCV recovery.
- Isopropanol was J qualified in sample GC510-BA03-0226 due to exceeding calibration range.

Table 2 - List of Positive Results for Blank Samples

Method	Sample Name	Sample Type	Analyte	Result	Qualifier	Units	MDL	PQL
TO-15	BB60610-BLK1	MB	Isopropanol	0.172	J	ug/m3	0.059	1.47

Table 2A - List of Samples Qualified for Method Blank Contamination
None.

Table 3 – List of LCS Recoveries outside Control Limits

Method	Sample Name	Sample Type	Analyte	LCS(D) R%	Low Limit	High Limit	Associated Samples	Qualifier
TO-15	BB60610-BS1	LCS	Toluene	166	70	130	GC510-BA02-0226 GC510-SV02-0226	J
TO-15	BB60683-BS1	LCS	1,2,4-Trichlorobenzene	136	70	130	GC510-BA03-0226 GC510-SV03-0226	None – High and ND
			Carbon Tetrachloride	44.4	70	130		UJ
			Naphthalene	132	70	130		J
TO-15	BB60763-BS1	LCS	Carbon Tetrachloride	42.1	70	130	GC510-BA01-0226 GC510-SV01-0226	UJ
			Hexachlorobutadiene	40.7	70	130		UJ
			Naphthalene	66.6	70	130	GC510-SV01-0226	UJ
							GC510-BA01-0226	J

Table 3A – List of LCS RPD outside Control Limits
None.

Table 4 – List of ICAL/ICV/CCV recoveries outside Control Limits

Method	Sample Name	Sample Type	Analyte	RRF, %RSD or %D	RRF, %RSD or %D Limit	Associated Samples	Qualifier
TO-15	SL50019	CAL	1,2,4-Trichlorobenzene	33.3	30	All Samples	None - ND
			Benzyl Chloride	37.6	30		None - ND
TO-15	S6B1108-CCV1	CCV	1,2,4-Trichlorobenzene	-34.2	30	GC510-SV02-0226 GC510-BA02-0226	UJ
TO-15	S6B1209-CCV1	CCV	Carbon Tetrachloride	-56.5	30	GC510-SV03-0226 GC510-BA03-0226	UJ

Method	Sample Name	Sample Type	Analyte	RRF, %RSD or %D	RRF, %RSD or %D Limit	Associated Samples	Qualifier
TO-15	S6B1317-CCV1	CCV	Carbon Tetrachloride	-59.7	30	GC510-SV03-0226 GC510-BA03-0226	UJ
			Hexachlorobutadiene	-56.3	30		UJ

Table 5 – Internal Standard Outside Control Limits
None.

Table 6 – Samples that were Re-analyzed/Diluted

Method	Batch	Sample	Laboratory ID	Analyte	Reason
TO-15	BB60763	GC510-SV01-0226	26B0187-01	All Analytes	1.81x Dilution
TO-15	BB60763	GC510-BA01-0226	26B0187-02	All Analytes	0.99x Dilution
TO-15	BB60610	GC510-SV02-0226	26B0187-03	All Analytes	2.37x Dilution
TO-15	BB60610	GC510-BA02-0226	26B0187-04	All Analytes	0.98x Dilution
TO-15	BB60683	GC510-SV03-0226	26B0187-05	All Analytes	1.47x Dilution

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: March 5, 2026	Completed by: Sayward Gohman-Kramer

Acronym List and Table Key:

AI	=	indoor ambient air
AO	=	outdoor ambient air
AS	=	sub slab soil vapor
Abs Diff	=	absolute difference
CCV	=	continuing calibration verification
COC	=	chain of custody
DUSR	=	data usability summary report
EPA	=	Environmental Protection Agency
FD	=	field duplicate
GC/MS	=	gas chromatography / mass spectrometry
ICAL	=	initial calibration
ICV	=	initial calibration verification
LCS	=	laboratory control sample
MB	=	method blank
MDL	=	method detection limit
N	=	normal (field) sample
NC	=	not calculated
ND	=	not detected
NYSDEC	=	New York State Department of Environmental Conservation
PQL	=	practical quantitation limit
QA	=	quality assurance
QC	=	quality control
RPD	=	relative percent difference
RRF	=	relative response factor
RSD	=	relative standard deviation
SDG	=	sample delivery group
TRG	=	target compound
%D	=	percent difference
%RSD	=	percent relative standard deviation
ug/m^3	=	microgram per cubic meter

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: March 5, 2026	Completed by: Sayward Gohman-Kramer

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- NYSDEC Division of Environmental Remediation Guidance for Data Deliverables and the Development of Data Usability Summary Reports (in DER-10, May 2010)
- EPA Region 2 Data Validation
    - SOP NO. HW-31, Revision 6, Volatile Organic Compounds in Air Contained in Canisters by Method TO-15

This validation was performed under Category B guidelines. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

Project ID	Lab Work Order	Laboratory Report
EE1705007.0028	26B0191	York Analytical Laboratories – Richmond Hill, NY

Table 1 Sample Listing Summary

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Field QC	ID Corrections
26B0191	AS	GC511-SV01-0226	26B0191-01	2/3/2026 14:09		
26B0191	AI	GC511-BA01-0226	26B0191-02	2/3/2026 14:09		
26B0191	AI	GC511-fA01-0226	26B0191-03	2/3/2026 14:12		
26B0191	AO	GC511-OA01-0226	26B0191-04	2/3/2026 14:08		

Table 1A Sample Test Summary

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
26B0191	AS	TO-15	Volatile Organic Compounds by GC/MS	1	N
26B0191	AI	TO-15	Volatile Organic Compounds by GC/MS	2	N
26B0191	AO	TO-15	Volatile Organic Compounds by GC/MS	1	N

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	Yes.
Did coolers arrive at lab between 2 and 6°C and in good condition as indicated on COC and Receipt Form?	Thermal preservation is not required.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples	No field duplicate associated with this SDG was collected. However, 1 per 20 field QC frequency will be evaluated at end of sampling event.
Case narrative present and complete?	Yes. The air canisters were batched certified to be below the reporting limit for all target analytes.
Any holding time violations?	No.

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Method Blanks Results (Table 2)
- LCS Outside Limits (Table 3)
- CCV/ICV Outside Limits (Table 4)
- Internal Standard Outside Limits (Table 5)
- Reanalysis/Dilution Results (Table 6)

Go to List

Volatile Organic Compounds by Method TO-15	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or field blanks (see Table 2)?	Yes. Isopropanol was detected below acceptance criteria in method blank BB60610-BLK1
For samples, if results are < 2 times the blank or < 4 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Isopropanol detections were greater than 2x the blank contamination; therefore, no qualification was made.
Is Laboratory QC frequency at least one blank and LCS with each batch?	Yes.
Is LCS within QC criteria (see Table 3)? If out, and the recovery is high with no positive values, then no data qualification is required.	No. Toluene was recovered above acceptance criteria in LCS BB60610-BS1. All sample detections were J qualified as estimated.
Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix (see Table 5)?	Yes.
Is initial calibration for target compounds <30 %RSD or curve fit? (see Table 4)	No. 1,2,4-Trichlorobenzene and benzyl chloride exhibited high %RSD in calibration curve SL50019. All associated samples were non-detect; therefore, no qualification was made.
Is the initial calibration verification for target compounds between laboratory limits or 70-130%? (see Table 4)	Yes.
Is continuing calibration for target compounds <30 %D? (see Table 4)	No. 1,2,4-Trichlorbenzene was recovered outside the acceptance criteria in CCV S6B1108-CCV1. All samples were non-detect for this compound; therefore, results were UJ qualified as estimated non-detect.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	All samples were diluted to bring concentrations within the calibration range. The reporting limits have been adjusted accordingly. No qualification was made based on dilutions. No data usability issues were observed.
For TICs are there any system related compounds that should not be reported?	No.

Quantitation Limits and Data Assessment: Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the TO-15 analysis. These results were qualified as estimated (J) by the laboratory.

Data Validation Qualifiers Definitions:

J – The analyte QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. The 'J' qualified data may be biased high (+) or low (-) or the direction of the bias may be indeterminable.

UJ - The analyte was not detected above the reported sample quantitation limit. The analyte QC analysis fails outside the primary acceptance limits. The "UJ" qualified data are not excluded from further review or consideration. The 'UJ' qualified data may be biased low.

Summary of Findings
• Toluene was J qualified in all samples due to high LCS recovery. • 1,2,4-Trichlorobenzene was UJ qualified in all samples due to poor CCV recovery.

Table 2 - List of Positive Results for Blank Samples

Method	Sample Name	Sample Type	Analyte	Result	Qualifier	Units	MDL	PQL
TO-15	BB60610-BLK1	MB	Isopropanol	0.172	J	ug/m3	0.059	1.47

Table 2A - List of Samples Qualified for Method Blank Contamination

None.

Table 3 – List of LCS Recoveries outside Control Limits

Method	Sample Name	Sample Type	Analyte	LCS(D) R%	Low Limit	High Limit	Associated Samples	Qualifier
TO-15	BB60610-BS1	LCS	Toluene	166	70	130	GC511-BA01-0226 GC511-FA01-0226 GC511-OA01-0226 GC511-SV01-0226	J

Table 3A – List of LCS RPD outside Control Limits

None.

Table 4 – List of ICAL/ICV/CCV recoveries outside Control Limits

Method	Sample Name	Sample Type	Analyte	RRF, %RSD or %D	RRF, %RSD or %D Limit	Associated Samples	Qualifier
TO-15	SL50019	CAL	1,2,4-Trichlorobenzene	33.3	30	All Samples	None - ND
			Benzyl Chloride	37.6	30		None - ND
TO-15	S6B1108-CCV1	CCV	1,2,4-Trichlorobenzene	-34.2	30	All Samples	UJ

Table 5 – Internal Standard Outside Control Limits

None.

Table 6 – Samples that were Re-analyzed/Diluted

Method	Batch	Sample	Laboratory ID	Analyte	Reason
TO-15	BB60610	GC511-SV01-0226	26B0191-01	All Analytes	1.61x Dilution
	BB60610		26B0191-01 RE1	Acetone	6.46x Dilution
TO-15	BB60610	GC511-BA01-0226	26B0191-02	All Analytes	1.17x Dilution
TO-15	BB60610	GC511-FA01-0226	26B0191-03	All Analytes	1.25x Dilution
TO-15	BB60610	GC511-OA01-0226	26B0191-04	All Analytes	0.99x Dilution

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: March 5, 2026	Completed by: Sayward Gohman-Kramer

Acronym List and Table Key:

AI	=	indoor ambient air
AO	=	outdoor ambient air
AS	=	sub slab soil vapor
Abs Diff	=	absolute difference
CCV	=	continuing calibration verification
COC	=	chain of custody
DUSR	=	data usability summary report
EPA	=	Environmental Protection Agency
FD	=	field duplicate
GC/MS	=	gas chromatography / mass spectrometry
ICAL	=	initial calibration
ICV	=	initial calibration verification
LCS	=	laboratory control sample
MB	=	method blank
MDL	=	method detection limit
N	=	normal (field) sample
NC	=	not calculated
ND	=	not detected
NYSDEC	=	New York State Department of Environmental Conservation
PQL	=	practical quantitation limit
QA	=	quality assurance
QC	=	quality control
RPD	=	relative percent difference
RRF	=	relative response factor
RSD	=	relative standard deviation
SDG	=	sample delivery group
TRG	=	target compound
%D	=	percent difference
%RSD	=	percent relative standard deviation
ug/m^3	=	microgram per cubic meter

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: January 30, 2026	Completed by: Sayward Gohman-Kramer

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- NYSDEC Division of Environmental Remediation Guidance for Data Deliverables and the Development of Data Usability Summary Reports (in DER-10, May 2010)
- EPA Region 2 Data Validation
    - SOP NO. HW-31, Revision 6, Volatile Organic Compounds in Air Contained in Canisters by Method TO-15

This validation was performed under Category B guidelines. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

Project ID	Lab Work Order	Laboratory Report
EE1705007.0028	410-260972-1	Eurofins – Lancaster

Table 1 Sample Listing Summary

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Field QC	ID Corrections
410-260972-1	AS	GC512-SV01-0126	410-260972-1	1/9/2026 9:28		
410-260972-1	AI	GC512-BA01-0126	410-260972-2	1/9/2026 9:29		
410-260972-1	AI	GC512-FA01-0126	410-260972-3	1/9/2026 9:34		

Table 1A Sample Test Summary

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
410-260972-1	AS	TO-15	Volatile Organic Compounds by GC/MS	1	N
410-260972-1	AI	TO-15	Volatile Organic Compounds by GC/MS	2	N

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	Yes.
Did coolers arrive at lab between 2 and 6°C and in good condition as indicated on COC and Receipt Form?	Thermal preservation is not required.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples	No field duplicate associated with this SDG was collected. However, 1 per 20 field QC frequency will be evaluated at end of sampling event.
Case narrative present and complete?	Yes. The air canisters were batched certified to be below the reporting limit for all target analytes.
Any holding time violations?	No.

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Method Blanks Results (Table 2)
- LCS Outside Limits (Table 3)
- CCV/ICV Outside Limits (Table 4)
- Internal Standard Outside Limits (Table 5)
- Reanalysis/Dilution Results (Table 6)

Go to List

Volatile Organic Compounds by Method TO-15	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or field blanks (see Table 2)?	Yes. Benzene was detected below the reporting limit in method blank 410-759395/7.
For samples, if results are < 2 times the blank or < 4 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Benzene detections were greater than 2x the blank contamination; therefore, no qualification was made.
Is Laboratory QC frequency at least one blank and LCS with each batch?	Yes.
Is LCS within QC criteria (see Table 3)? If out, and the recovery is high with no positive values, then no data qualification is required.	Yes.
Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix (see Table 5)?	Yes.
Is initial calibration for target compounds <30 %RSD or curve fit? (see Table 4)	No. Naphthalene exhibited high %RSD in calibration curve 80188. All samples were non-detect; therefore, no qualification was made.
Is the initial calibration verification for target compounds between laboratory limits or 70-130%? (see Table 4)	Yes.
Is continuing calibration for target compounds <30 %D? (see Table 4)	Yes.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	No.
For TICs are there any system related compounds that should not be reported?	No.

Quantitation Limits and Data Assessment: Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the TO-15 analysis. These results were qualified as estimated (J) by the laboratory.

Summary of Findings
• No data usability issues were observed.

Table 2 - List of Positive Results for Blank Samples

Method	Sample Name	Sample Type	Analyte	Result	Qualifier	Units	MDL	PQL
TO-15	410-759395/7	MB	Benzene	0.301	J	ug/m3	0.14	0.64

Table 2A - List of Samples Qualified for Method Blank Contamination
None.

Table 3 – List of LCS Recoveries outside Control Limits
None.

Table 3A – List of LCS RPD outside Control Limits
None.

Table 4 – List of ICAL/ICV/CCV recoveries outside Control Limits

Method	Sample Name	Sample Type	Analyte	RRF, %RSD or %D	RRF, %RSD or %D Limit	Associated Samples	Qualifier
TO-15	80188	ICAL	Naphthalene	35.6	30	All Samples	None – ND

Table 5 – Internal Standard Outside Control Limits
None.

Table 6 – Samples that were Re-analyzed/Diluted
None.

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: January 30, 2026	Completed by: Sayward Gohman-Kramer

Acronym List and Table Key:

AI	=	indoor ambient air
AO	=	outdoor ambient air
AS	=	sub slab soil vapor
Abs Diff	=	absolute difference
CCV	=	continuing calibration verification
COC	=	chain of custody
DUSR	=	data usability summary report
EPA	=	Environmental Protection Agency
FD	=	field duplicate
GC/MS	=	gas chromatography / mass spectrometry
ICAL	=	initial calibration
ICV	=	initial calibration verification
LCS	=	laboratory control sample
MB	=	method blank
MDL	=	method detection limit
N	=	normal (field) sample
NC	=	not calculated
ND	=	not detected
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PQL	=	practical quantitation limit
QA	=	quality assurance
QC	=	quality control
RPD	=	relative percent difference
RRF	=	relative response factor
RSD	=	relative standard deviation
SDG	=	sample delivery group
TRG	=	target compound
%D	=	percent difference
%RSD	=	percent relative standard deviation
ug/m^3	=	microgram per cubic meter

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: April 9, 2026	Completed by: Sayward Gohman-Kramer

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- NYSDEC Division of Environmental Remediation Guidance for Data Deliverables and the Development of Data Usability Summary Reports (in DER-10, May 2010)
- EPA Region 2 Data Validation
    - SOP NO. HW-31, Revision 6, Volatile Organic Compounds in Air Contained in Canisters by Method TO-15

This validation was performed under Category B guidelines. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

Project ID	Lab Work Order	Laboratory Report
EE1705007.0028	26C1207	York Analytical Laboratories – Richmond Hill, NY

Table 1 Sample Listing Summary

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Field QC	ID Corrections
26C1207	AS	GC421-SV01-0326	26C1207-01	3/20/2026 8:16		
26C1207	AI	GC421-BA01-0326	26C1207-02	3/20/2026 8:13		
26C1207	AO	GC421-OA01-0326	26C1207-03	3/20/2026 8:21		

Table 1A Sample Test Summary

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
26C1207	AS	TO-15	Volatile Organic Compounds by GC/MS	1	N
26C1207	AI	TO-15	Volatile Organic Compounds by GC/MS	1	N
26C1207	AO	TO-15	Volatile Organic Compounds by GC/MS	1	N

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	Yes.
Did coolers arrive at lab between 2 and 6°C and in good condition as indicated on COC and Receipt Form?	Thermal preservation is not required.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples	No field duplicate associated with this SDG was collected. However, 1 per 20 field QC frequency will be evaluated at end of sampling event.
Case narrative present and complete?	Yes. The air canisters were batched certified to be below the reporting limit for all target analytes.
Any holding time violations?	No.

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Method Blanks Results (Table 2)
- LCS Outside Limits (Table 3)
- CCV/ICV Outside Limits (Table 4)
- Internal Standard Outside Limits (Table 5)
- Reanalysis/Dilution Results (Table 6)

Go to List

Volatile Organic Compounds by Method TO-15	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or field blanks (see Table 2)?	No.
For samples, if results are < 2 times the blank or < 4 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Not applicable.
Is Laboratory QC frequency at least one blank and LCS with each batch?	Yes.
Is LCS within QC criteria (see Table 3)? If out, and the recovery is high with no positive values, then no data qualification is required.	No. Several compounds were recovered above acceptance criteria in LCS BD60489-BS1. Sample non-detections were not qualified and all sample 4-methyl-2-pentanone detections were J qualified as estimated. Carbon tetrachloride was recovered below acceptance criteria in LCS BD60489-BS1. Sample detections were J qualified and non-detects were UJ qualified.
Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix (see Table 5)?	Yes.
Is initial calibration for target compounds <30 %RSD or curve fit? (see Table 4)	No. 1,2,4-Trichlorobenzene and naphthalene exhibited high %RSD in calibration curve SC60034. All associated samples were non-detect; therefore, no qualification was made.
Is the initial calibration verification for target compounds between laboratory limits or 70-130%? (see Table 4)	Yes.
Is continuing calibration for target compounds <30 %D? (see Table 4)	No. Several compounds were recovered outside the acceptance criteria in CCV S6D0807-CCV1. All sample detections were qualified J as estimated and non-detects were UJ qualified as estimated non-detect.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	All samples were diluted to bring concentrations within the calibration range. The reporting limits have been adjusted accordingly. No qualification was made based on dilutions. No data usability issues were observed.
For TICs are there any system related compounds that should not be reported?	No.

Quantitation Limits and Data Assessment: Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the TO-15 analysis. These results were qualified as estimated (J) by the laboratory.

Data Validation Qualifiers Definitions:

J – The analyte QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. The 'J' qualified data may be biased high (+) or low (-) or the direction of the bias may be indeterminable.

UJ - The analyte was not detected above the reported sample quantitation limit. The analyte QC analysis fails outside the primary acceptance limits. The "UJ" qualified data are not excluded from further review or consideration. The 'UJ' qualified data may be biased low.

Summary of Findings

- 2-Hexanone and carbon tetrachloride were J qualified in samples GC513-BA01-0326 and GC513-OA01-0326 due to poor LCS recovery.
- 4-Methyl-2-pentanone was J qualified in sample GC513-OA01-0326 due to high LCS and CCV recovery.
- Carbon tetrachloride was UJ qualified in sample GC513-SV01-0326 due to low LCS recovery.
- 2-Hexanone was J qualified in samples GC513-BA01-0326 and GC513-OA01-0326 and was UJ qualified in sample GC513-SV01-0326 due to high CCV recovery.
- 1,2-Dichloropropane was UJ qualified in all samples due to high CCV recovery.
- 4-Methyl-2-pentanone was UJ qualified in samples GC513-BA01-0326 and GC513-SV01-0326 due to high CCV recovery.

Table 2 - List of Positive Results for Blank Samples
None.

Table 2A - List of Samples Qualified for Method Blank Contamination
None.

Table 3 – List of LCS Recoveries outside Control Limits

Method	Sample Name	Sample Type	Analyte	LCS(D) R%	Low Limit	High Limit	Associated Samples	Qualifier
TO-15	BD60489-BS1	LCS	1,2-Dichloropropane	132	70	130	All Samples	None – High and ND
			2-Hexanone	150	70	130	GC513-SV01-0326	None – High and ND
							GC513-BA01-0326 GC513-OA01-0326	J
			4-Methyl-2-pentanone	145	70	130	GC513-SV01-0326 GC513-BA01-0326	None – High and ND
							GC513-OA01-0326	J
			Carbon Tetrachloride	69.7	70	130	GC513-SV01-0326	UJ
							GC513-BA01-0326 GC513-OA01-0326	J

Table 3A – List of LCS RPD outside Control Limits
None.

Table 4 – List of ICAL/ICV/CCV recoveries outside Control Limits

Method	Sample Name	Sample Type	Analyte	RRF, %RSD or %D	RRF, %RSD or %D Limit	Associated Samples	Qualifier
TO-15	SC60034	CAL	1,2,4-Trichlorobenzene	31.2	30	All Samples	None - ND
			Naphthalene	38.5	30		None - ND
TO-15	S6D0807-CCV1	CCV	1,2-Dichloropropane	38.8	30	All Samples	UJ
			2-Hexanone	50.4	30	GC513-SV01-0326	UJ
						GC513-BA01-0326 GC513-OA01-0326	J
			4-Methyl-2-pentanone	48.5	30	GC513-SV01-0326 GC513-BA01-0326	UJ

Method	Sample Name	Sample Type	Analyte	RRF, %RSD or %D	RRF, %RSD or %D Limit	Associated Samples	Qualifier
						GC513-OA01-0326	J

Table 5 – Internal Standard Outside Control Limits
None.

Table 6 – Samples that were Re-analyzed/Diluted

Method	Batch	Sample	Laboratory ID	Analyte	Reason
TO-15	BD60489	GC421-SV01-0326	26C1207-01	All Analytes	22.26x Dilution
TO-15	BD60489	GC421-BA01-0326	26C1207-02	All Analytes	0.83x Dilution
TO-15	BD60489	GC421-OA01-0326	26C1207-03	All Analytes	1.02x Dilution

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: April 9, 2026	Completed by: Sayward Gohman-Kramer

Acronym List and Table Key:

AI	=	indoor ambient air
AO	=	outdoor ambient air
AS	=	sub slab soil vapor
Abs Diff	=	absolute difference
CCV	=	continuing calibration verification
COC	=	chain of custody
DUSR	=	data usability summary report
EPA	=	Environmental Protection Agency
FD	=	field duplicate
GC/MS	=	gas chromatography / mass spectrometry
ICAL	=	initial calibration
ICV	=	initial calibration verification
LCS	=	laboratory control sample
MB	=	method blank
MDL	=	method detection limit
N	=	normal (field) sample
NC	=	not calculated
ND	=	not detected
NYSDEC	=	New York State Department of Environmental Conservation
PQL	=	practical quantitation limit
QA	=	quality assurance
QC	=	quality control
RPD	=	relative percent difference
RRF	=	relative response factor
RSD	=	relative standard deviation
SDG	=	sample delivery group
TRG	=	target compound
%D	=	percent difference
%RSD	=	percent relative standard deviation
ug/m^3	=	microgram per cubic meter

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: April 23, 2026	Completed by: Sayward Gohman-Kramer

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- NYSDEC Division of Environmental Remediation Guidance for Data Deliverables and the Development of Data Usability Summary Reports (in DER-10, May 2010)
- EPA Region 2 Data Validation
    - SOP NO. HW-31, Revision 6, Volatile Organic Compounds in Air Contained in Canisters by Method TO-15

This validation was performed under Category B guidelines. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

Project ID	Lab Work Order	Laboratory Report
EE1705007.0028	JE31451	SGS North America – Dayton

Table 1 Sample Listing Summary

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Field QC	ID Corrections
JE31451	AS	GC513-SV01-0426	JE31451-1	4/3/2026 8:02		
JE31451	AI	GC513-BA01-0426	JE31451-2	4/3/2026 8:03		
JE31451	AI	GC513-BA01-0426-D	JE31451-3	4/3/2026 8:03	FD	
JE31451	AO	GC513-OA01-0426	JE31451-4	4/3/2026 8:12		

Table 1A Sample Test Summary

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
JE31451	AS	TO-15	Volatile Organic Compounds by GC/MS	1	N
JE31451	AI	TO-15	Volatile Organic Compounds by GC/MS	1	N
JE31451	AI	TO-15	Volatile Organic Compounds by GC/MS	1	FD
JE31451	AO	TO-15	Volatile Organic Compounds by GC/MS	1	N

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	Yes.
Did coolers arrive at lab between 2 and 6°C and in good condition as indicated on COC and Receipt Form?	Thermal preservation is not required.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples	However, 1 per 20 field QC frequency will be evaluated at end of sampling event. 1 Field Duplicate per 3 samples.
Case narrative present and complete?	Yes. The air canisters were batched certified to be below the reporting limit for all target analytes.
Any holding time violations?	No.

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Method Blanks Results (Table 2)
- Surrogates Outside Limits (Table 3)
- LCS Outside Limits (Table 4)
- CCV/ICV Outside Limits (Table 5)
- Internal Standard Outside Limits (Table 6)
- Reanalysis/Dilution Results (Table 7)
- Duplicate Results (Table 8)

Go to List

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: April 23, 2026	Completed by: Sayward Gohman-Kramer

Volatile Organic Compounds by Method TO-15	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or field blanks (see Table 2)?	No.
For samples, if results are < 2 times the blank or < 4 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Not applicable.
Are surrogates for method blanks, LCS, and samples within limits? (see Table 3)	Yes.
Is Laboratory QC frequency at least one blank and LCS with each batch?	Yes.
Is LCS within QC criteria (see Table 4)? If out, and the recovery is high with no positive values, then no data qualification is required.	Yes.
Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix (see Table 6)?	Yes.
Is initial calibration for target compounds <30 %RSD or curve fit? (see Table 5)	No. Benzyl chloride exhibited high %RSD in calibration curve V2W3191-ICC3191. All associated samples were non-detect; therefore, no qualification was made.
Is the initial calibration verification for target compounds between laboratory limits or 70-130%? (see Table 5)	Yes.
Is continuing calibration for target compounds <30 %D? (see Table 5)	Yes.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	Sample GC513-OA01-0326 was diluted to bring concentrations within the calibration range. The reporting limits have been adjusted accordingly. No qualification was made based on dilutions. No data usability issues were observed.
For TICs are there any system related compounds that should not be reported?	No.
Do duplicate results show good precision for all compounds except TICs (see Table 8)?	No. 1,2,4-Trichlorobenzne, hexane, and methylene chloride were outside QC criteria of 50% RPD between samples GC513-BA01-0426 and its field duplicate GC513-BA01-0426-D. When the difference between samples was >2x the PQL, results were J qualified as estimated. When the difference between results was <2x the PQL, results were not qualified.

Quantitation Limits and Data Assessment: Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the TO-15 analysis. These results were qualified as estimated (J) by the laboratory.

Data Validation Qualifiers Definitions:

J – The analyte QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. The 'J' qualified data may be biased high (+) or low (-) or the direction of the bias may be indeterminable.

Summary of Findings
• Hexane and methylene chloride were J qualified in samples GC513-BA01-0326 and GC513-BA01-0326-D due to poor field duplicate RPD.

Table 2 - List of Positive Results for Blank Samples
None.

Table 2A - List of Samples Qualified for Method Blank Contamination
None.

Table 3 – List of Samples with Surrogates outside Control Limits
None.

Table 4 – List of LCS Recoveries outside Control Limits
None.

Table 4A – List of LCS RPD outside Control Limits
None.

Table 5 – List of ICAL/ICV/CCV recoveries outside Control Limits

Method	Sample Name	Sample Type	Analyte	RRF, %RSD or %D	RRF, %RSD or %D Limit	Associated Samples	Qualifier
TO-15	V2W3191-ICC3191	CAL	Benzyl Chloride	36.37	30	All Samples	None – ND

Table 6 – Internal Standard Outside Control Limits
None.

Table 7 – Samples that were Re-analyzed/Diluted

Method	Batch	Sample	Laboratory ID	Analyte	Reason
TO-15	V2W3235	GC513-OA01-0426	JE31451-4	All Analytes	5.89x Dilution

Table 8 – Summary of Duplicate Results

Method	Analyte	Unit	Matrix	PQL	GC513-BA01-0426	GC513-BA01-0426-D	RPD	RPD Rating	Qualifier
TO-15	1,2,4-Trimethylbenzene	ug/m3	AI	0.98	0.69	ND	NC	Poor	None - <2x PQL
TO-15	Acetone	ug/m3	AI	0.48	20	19	5.1%	Good	None
TO-15	Benzene	ug/m3	AI	0.64	0.54	0.48	11.8%	Good	None
TO-15	Chloroform	ug/m3	AI	0.98	0.88	0.93	5.5%	Good	None

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: April 23, 2026	Completed by: Sayward Gohman-Kramer

Method	Analyte	Unit	Matrix	PQL	GC513-BA01-0426	GC513-BA01-0426-D	RPD	RPD Rating	Qualifier
TO-15	Chloromethane	ug/m3	AI	0.41	1.3	1.3	0.0%	Good	None
TO-15	Dichlorodifluoromethane	ug/m3	AI	0.99	2.2	2.1	4.7%	Good	None
TO-15	Heptane	ug/m3	AI	0.82	0.49	0.45	8.5%	Good	None
TO-15	Hexane	ug/m3	AI	0.70	0.95	2.8	98.7%	Poor	J Flag
TO-15	Isopropyl Alcohol	ug/m3	AI	0.49	4.2	4.2	0.0%	Good	None
TO-15	m,p-Xylene	ug/m3	AI	0.87	0.74	0.69	7.0%	Good	None
TO-15	Methyl ethyl ketone	ug/m3	AI	0.59	0.83	0.83	0.0%	Good	None
TO-15	Methylene chloride	ug/m3	AI	0.69	1.5	4.9	106.3%	Poor	J Flag
TO-15	Toluene	ug/m3	AI	0.75	1.2	1.2	0.0%	Good	None
TO-15	Trichlorofluoromethane	ug/m3	AI	0.56	1.1	1.2	8.7%	Good	None

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: April 23, 2026	Completed by: Sayward Gohman-Kramer

Acronym List and Table Key:

AI	=	indoor ambient air
AO	=	outdoor ambient air
AS	=	sub slab soil vapor
Abs Diff	=	absolute difference
CCV	=	continuing calibration verification
COC	=	chain of custody
DUSR	=	data usability summary report
EPA	=	Environmental Protection Agency
FD	=	field duplicate
GC/MS	=	gas chromatography / mass spectrometry
ICAL	=	initial calibration
ICV	=	initial calibration verification
LCS	=	laboratory control sample
MB	=	method blank
MDL	=	method detection limit
N	=	normal (field) sample
NC	=	not calculated
ND	=	not detected
NYSDEC	=	New York State Department of Environmental Conservation
PQL	=	practical quantitation limit
QA	=	quality assurance
QC	=	quality control
RPD	=	relative percent difference
RRF	=	relative response factor
RSD	=	relative standard deviation
SDG	=	sample delivery group
TRG	=	target compound
%D	=	percent difference
%RSD	=	percent relative standard deviation
ug/m^3	=	microgram per cubic meter

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: February 2, 2026	Completed by: Sayward Gohman-Kramer

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- NYSDEC Division of Environmental Remediation Guidance for Data Deliverables and the Development of Data Usability Summary Reports (in DER-10, May 2010)
- EPA Region 2 Data Validation
    - SOP NO. HW-31, Revision 6, Volatile Organic Compounds in Air Contained in Canisters by Method TO-15

This validation was performed under Category B guidelines. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

Project ID	Lab Work Order	Laboratory Report
EE1705007.0028	410-260200-1	Eurofins – Lancaster

Table 1 Sample Listing Summary

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Field QC	ID Corrections
410-260200-1	AS	GC514-SV01-0126	410-260200-1	1/15/2026 10:02		
410-260200-1	AI	GC514-BA01-0126	410-260200-2	1/15/2026 10:02		
410-260200-1	AI	GC514-FA01-0126	410-260200-3	1/15/2026 10:03		
410-260200-1	AO	GC514-OA01-0126	410-260200-4	1/15/2026 10:02		

Table 1A Sample Test Summary

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
410-260200-1	AS	TO-15	Volatile Organic Compounds by GC/MS	1	N
410-260200-1	AI	TO-15	Volatile Organic Compounds by GC/MS	2	N
410-260200-1	AO	TO-15	Volatile Organic Compounds by GC/MS	1	N

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	Yes.
Did coolers arrive at lab between 2 and 6°C and in good condition as indicated on COC and Receipt Form?	Thermal preservation is not required.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples	No field duplicate associated with this SDG was collected. However, 1 per 20 field QC frequency will be evaluated at end of sampling event.
Case narrative present and complete?	Yes. The air canisters were batched certified to be below the reporting limit for all target analytes.
Any holding time violations?	No.

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Method Blanks Results (Table 2)
- LCS Outside Limits (Table 3)
- CCV/ICV Outside Limits (Table 4)
- Internal Standard Outside Limits (Table 5)
- Reanalysis/Dilution Results (Table 6)

Go to List

Volatile Organic Compounds by Method TO-15	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or field blanks (see Table 2)?	No.
For samples, if results are < 2 times the blank or < 4 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Not applicable.
Is Laboratory QC frequency at least one blank and LCS with each batch?	Yes.
Is LCS within QC criteria (see Table 3)? If out, and the recovery is high with no positive values, then no data qualification is required.	Yes.
Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix (see Table 5)?	Yes.
Is initial calibration for target compounds <30 %RSD or curve fit? (see Table 4)	Yes.
Is the initial calibration verification for target compounds between laboratory limits or 70-130%? (see Table 4)	Yes.
Is continuing calibration for target compounds <30 %D? (see Table 4)	Yes.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	No.
For TICs are there any system related compounds that should not be reported?	No.

Quantitation Limits and Data Assessment: Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the TO-15 analysis. These results were qualified as estimated (J) by the laboratory.

Summary of Findings
• No data usability issues were observed.

Table 2 - List of Positive Results for Blank Samples
None.

Table 2A - List of Samples Qualified for Method Blank Contamination
None.

Table 3 – List of LCS Recoveries outside Control Limits
None.

Table 3A – List of LCS RPD outside Control Limits
None.

Table 4 – List of ICAL/ICV/CCV recoveries outside Control Limits
None.

Table 5 – Internal Standard Outside Control Limits
None.

Table 6 – Samples that were Re-analyzed/Diluted
None.

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: February 2, 2026	Completed by: Sayward Gohman-Kramer

Acronym List and Table Key:

AI	=	indoor ambient air
AO	=	outdoor ambient air
AS	=	sub slab soil vapor
Abs Diff	=	absolute difference
CCV	=	continuing calibration verification
COC	=	chain of custody
DUSR	=	data usability summary report
EPA	=	Environmental Protection Agency
FD	=	field duplicate
GC/MS	=	gas chromatography / mass spectrometry
ICAL	=	initial calibration
ICV	=	initial calibration verification
LCS	=	laboratory control sample
MB	=	method blank
MDL	=	method detection limit
N	=	normal (field) sample
NC	=	not calculated
ND	=	not detected
NYSDEC	=	New York State Department of Environmental Conservation
PQL	=	practical quantitation limit
QA	=	quality assurance
QC	=	quality control
RPD	=	relative percent difference
RRF	=	relative response factor
RSD	=	relative standard deviation
SDG	=	sample delivery group
TRG	=	target compound
%D	=	percent difference
%RSD	=	percent relative standard deviation
ug/m^3	=	microgram per cubic meter

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: February 2, 2026	Completed by: Sayward Gohman-Kramer

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- NYSDEC Division of Environmental Remediation Guidance for Data Deliverables and the Development of Data Usability Summary Reports (in DER-10, May 2010)
- EPA Region 2 Data Validation
    - SOP NO. HW-31, Revision 6, Volatile Organic Compounds in Air Contained in Canisters by Method TO-15

This validation was performed under Category B guidelines. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

Project ID	Lab Work Order	Laboratory Report
EE1705007.0028	410-260200-2	Eurofins – Lancaster

Table 1 Sample Listing Summary

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Field QC	ID Corrections
410-260200-2	AI	GC514-BA01-0126	410-260200-5	1/15/2026 13:14		
410-260200-2	AI	GC514-FA01-0126	410-260200-6	1/15/2026 13:21		
410-260200-2	AO	GC514-OA01-0126	410-260200-7	1/15/2026 13:15		

Table 1A Sample Test Summary

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
410-260200-2	AI	TO-15	Volatile Organic Compounds by GC/MS	2	N
410-260200-2	AO	TO-15	Volatile Organic Compounds by GC/MS	1	N

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	Yes.
Did coolers arrive at lab between 2 and 6°C and in good condition as indicated on COC and Receipt Form?	Thermal preservation is not required.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples	No field duplicate associated with this SDG was collected. However, 1 per 20 field QC frequency will be evaluated at end of sampling event.
Case narrative present and complete?	Yes. The air canisters were batched certified to be below the reporting limit for all target analytes.
Any holding time violations?	No.

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Method Blanks Results (Table 2)
- LCS Outside Limits (Table 3)
- CCV/ICV Outside Limits (Table 4)
- Internal Standard Outside Limits (Table 5)
- Reanalysis/Dilution Results (Table 6)

Go to List

Volatile Organic Compounds by Method TO-15	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or field blanks (see Table 2)?	No.
For samples, if results are < 2 times the blank or < 4 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Not applicable.
Is Laboratory QC frequency at least one blank and LCS with each batch?	Yes.
Is LCS within QC criteria (see Table 3)? If out, and the recovery is high with no positive values, then no data qualification is required.	Yes.
Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix (see Table 5)?	Yes.
Is initial calibration for target compounds <30 %RSD or curve fit? (see Table 4)	Yes.
Is the initial calibration verification for target compounds between laboratory limits or 70-130%? (see Table 4)	Yes.
Is continuing calibration for target compounds <30 %D? (see Table 4)	Yes.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	No.
For TICs are there any system related compounds that should not be reported?	No.

Quantitation Limits and Data Assessment: Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the TO-15 analysis. These results were qualified as estimated (J) by the laboratory.

Summary of Findings
• No data usability issues were observed.

Table 2 - List of Positive Results for Blank Samples
None.

Table 2A - List of Samples Qualified for Method Blank Contamination
None.

Table 3 – List of LCS Recoveries outside Control Limits
None.

Table 3A – List of LCS RPD outside Control Limits
None.

Table 4 – List of ICAL/ICV/CCV recoveries outside Control Limits
None.

Table 5 – Internal Standard Outside Control Limits
None.

Table 6 – Samples that were Re-analyzed/Diluted
None.

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: February 2, 2026	Completed by: Sayward Gohman-Kramer

Acronym List and Table Key:

AI	=	indoor ambient air
AO	=	outdoor ambient air
AS	=	sub slab soil vapor
Abs Diff	=	absolute difference
CCV	=	continuing calibration verification
COC	=	chain of custody
DUSR	=	data usability summary report
EPA	=	Environmental Protection Agency
FD	=	field duplicate
GC/MS	=	gas chromatography / mass spectrometry
ICAL	=	initial calibration
ICV	=	initial calibration verification
LCS	=	laboratory control sample
MB	=	method blank
MDL	=	method detection limit
N	=	normal (field) sample
NC	=	not calculated
ND	=	not detected
NYSDEC	=	New York State Department of Environmental Conservation
PQL	=	practical quantitation limit
QA	=	quality assurance
QC	=	quality control
RPD	=	relative percent difference
RRF	=	relative response factor
RSD	=	relative standard deviation
SDG	=	sample delivery group
TRG	=	target compound
%D	=	percent difference
%RSD	=	percent relative standard deviation
ug/m^3	=	microgram per cubic meter

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: February 26, 2026	Completed by: Sayward Gohman-Kramer

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- NYSDEC Division of Environmental Remediation Guidance for Data Deliverables and the Development of Data Usability Summary Reports (in DER-10, May 2010)
- EPA Region 2 Data Validation
    - SOP NO. HW-31, Revision 6, Volatile Organic Compounds in Air Contained in Canisters by Method TO-15

This validation was performed under Category B guidelines. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

Project ID	Lab Work Order	Laboratory Report
EE1705007.0028	26A1291	York Analytical Laboratories – Richmond Hill, NY

Table 1 Sample Listing Summary

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Field QC	ID Corrections
26A1291	AS	GC517-SV01-0126	26A1291-01	1/30/2026 8:37		
26A1291	AI	GC517-BA01-0126	26A1291-02	1/30/2026 8:37		
26A1291	AS	GC517-SV02-0126	26A1291-03	1/30/2026 8:38		
26A1291	AI	GC517-FA01-0126	26A1291-04	1/30/2026 8:39		
26A1291	AO	GC517-OA01-0126	26A1291-05	1/30/2026 8:40		

Table 1A Sample Test Summary

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
26A1291	AS	TO-15	Volatile Organic Compounds by GC/MS	2	N
26A1291	AI	TO-15	Volatile Organic Compounds by GC/MS	2	N
26A1291	AO	TO-15	Volatile Organic Compounds by GC/MS	1	N

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	Yes.
Did coolers arrive at lab between 2 and 6°C and in good condition as indicated on COC and Receipt Form?	Thermal preservation is not required.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples	No field duplicate associated with this SDG was collected. However, 1 per 20 field QC frequency will be evaluated at end of sampling event.
Case narrative present and complete?	Yes. The air canisters were batched certified to be below the reporting limit for all target analytes.
Any holding time violations?	No.

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Method Blanks Results (Table 2)
- LCS Outside Limits (Table 3)
- CCV/ICV Outside Limits (Table 4)
- Internal Standard Outside Limits (Table 5)
- Reanalysis/Dilution Results (Table 6)

Go to List

Volatile Organic Compounds by Method TO-15	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or field blanks (see Table 2)?	Yes. Isopropanol was detected below the reporting limit in method blank BB60347-BLK1.
For samples, if results are < 2 times the blank or < 4 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Isopropanol detections were greater than 2x the blank contamination; therefore, no qualification was made.
Is Laboratory QC frequency at least one blank and LCS with each batch?	Yes.
Is LCS within QC criteria (see Table 3)? If out, and the recovery is high with no positive values, then no data qualification is required.	No. 1,2,4-Trichlorobenzene, hexachlorobutadiene, and naphthalene were recovered below 10% in LCS BB60288-BS1. All associated samples were non-detect for these compounds; therefore, results were UR qualified as rejected and considered unusable. 1,2,4-Trichlorobenzene, hexachlorobutadiene, and naphthalene were recovered below acceptance criteria in LCS BB60347-BS1. Sample GC517-OA01-0126 was non-detect for these compounds; therefore, the results were UJ qualified.
Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix (see Table 5)?	Yes.
Is initial calibration for target compounds <30 %RSD or curve fit? (see Table 4)	No. 1,2,4-Trichlorobenzene and benzyl chloride exhibited high %RSD in calibration curve SL50019. All associated samples were non-detect; therefore, no qualification was made.
Is the initial calibration verification for target compounds between laboratory limits or 70-130%? (see Table 4)	Yes.
Is continuing calibration for target compounds <30 %D? (see Table 4)	No. 1,2,4-Trichlorobenzene, hexachlorobutadiene, and naphthalene were recovered below the acceptance criteria in CCV S6B0521-CCV1. All associated samples were non-detect for these compounds; therefore, results were UR qualified as rejected and considered unusable. 1,2,4-Trichlorobenzene, hexachlorobutadiene, and naphthalene were recovered below the acceptance criteria in CCV S6B0606-CCV1. Sample GC517-OA01-0126 was non-detect for these compounds; therefore, the results were UJ qualified.

Volatile Organic Compounds by Method TO-15	
Description	**Notes and Qualifiers**
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	All samples were diluted to bring concentrations within the calibration range. The reporting limits have been adjusted accordingly. No qualification was made based on dilutions. No data usability issues were observed. Isopropanol was recovered above the calibration range for sample GC517-FA01-0126. The laboratory qualified this as E for estimated. Samples were qualified J as estimated.
For TICs are there any system related compounds that should not be reported?	No.

Quantitation Limits and Data Assessment: Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the TO-15 analysis. These results were qualified as estimated (J) by the laboratory.

Data Validation Qualifiers Definitions:

J – The analyte QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. The 'J' qualified data may be biased high (+) or low (-) or the direction of the bias may be indeterminable.

UJ - The analyte was not detected above the reported sample quantitation limit. The analyte QC analysis fails outside the primary acceptance limits. The "UJ" qualified data are not excluded from further review or consideration. The 'UJ' qualified data may be biased low.

UR – The analyte was analyzed for but due to quality control anomalies, sample is considered unusable.

Summary of Findings

- 1,2,4-Trichlorobenzene, hexachlorobutadiene, and naphthalene were UR qualified as rejected in all several samples due to low LCS and CCV recoveries. See Table 4 for list of samples.
- 1,2,4-Trichlorobenzene, hexachlorobutadiene, and naphthalene were UJ qualified in sample GC517-OA01-0126 due to low LCS and CCV recoveries.
- Isopropanol was J qualified in sample GC517-FA01-0126 due to exceeding the calibration range.

Table 2 - List of Positive Results for Blank Samples

Method	Sample Name	Sample Type	Analyte	Result	Qualifier	Units	MDL	PQL
TO-15	BB60347-BLK1	MB	Isopropanol	0.221	J	ug/m3	0.059	1.47

Table 2A - List of Samples Qualified for Method Blank Contamination

None.

Table 3 – List of LCS Recoveries outside Control Limits

Method	Sample Name	Sample Type	Analyte	LCS(D) R%	Low Limit	High Limit	Associated Samples	Qualifier
TO-15	BB60228-BS1	LCS	1,2,4-Trichlorobenzene	8.7	70	130	GC517-SV01-0126 GC517-BA01-0126 GC517-SV02-0126 GC517-FA01-0126	UR
			Hexachlorobutadiene	8.7	70	130		UR
			Naphthalene	9.5	70	130		UR
TO-15	BB60347-BS1	LCS	1,2,4-Trichlorobenzene	52.6	70	130	GC517-OA01-0126	UJ
			Hexachlorobutadiene	46.2	70	130		UJ
			Naphthalene	54.9	70	130		UJ

Table 3A – List of LCS RPD outside Control Limits

None.

Table 4 – List of ICAL/ICV/CCV recoveries outside Control Limits

Method	Sample Name	Sample Type	Analyte	RRF, %RSD or %D	RRF, %RSD or %D Limit	Associated Samples	Qualifier
TO-15	SL50019	CAL	1,2,4-Trichlorobenzene	33.3	30	All Samples	None - ND
			Benzyl Chloride	37.6	30		None - ND
TO-15	S6B0521-CCV1	CCV	1,2,4-Trichlorobenzene	-88.4	30	GC517-SV01-0126 GC517-BA01-0126 GC517-SV02-0126 GC517-FA01-0126	UR
			Hexachlorobutadiene	-88.9	30		UR
			Naphthalene	-87.4	30		UR
TO-15	S6B0606-CCV1	CCV	1,2,4-Trichlorobenzene	-61.8	30	GC517-OA01-0126	UJ
			Hexachlorobutadiene	-63.8	30		UJ
			Naphthalene	-57.8	30		UJ

Table 5 – Internal Standard Outside Control Limits
None

Table 6 – Samples that were Re-analyzed/Diluted

Method	Batch	Sample	Laboratory ID	Analyte	Reason
TO-15	BB60288	GC517-SV01-0126	26A1291-01	All Analytes	0.74x Dilution
	BB60347		26A1291-01 RE1	Acetone	6.91x Dilution
TO-15	BB60288	GC517-BA01-0126	26A1291-02	All Analytes	1.82x Dilution
	BB60347		26A1291-02 RE1	Acetone	18.18x Dilution
TO-15	BB60288	GC517-SV02-0126	26A1291-03	All Analytes	1.32x Dilution
TO-15	BB60288	GC517-FA01-0126	26A1291-04	All Analytes	1.66x Dilution
	BB60347		26A1291-04 RE1	Acetone	16.56x Dilution
TO-15	BB60347	GC517-OA01-0126	26A1291-05	All Analytes	1.12x Dilution

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: February 26, 2026	Completed by: Sayward Gohman-Kramer

Acronym List and Table Key:

AI	=	indoor ambient air
AO	=	outdoor ambient air
AS	=	sub slab soil vapor
Abs Diff	=	absolute difference
CCV	=	continuing calibration verification
COC	=	chain of custody
DUSR	=	data usability summary report
EPA	=	Environmental Protection Agency
FD	=	field duplicate
GC/MS	=	gas chromatography / mass spectrometry
ICAL	=	initial calibration
ICV	=	initial calibration verification
LCS	=	laboratory control sample
MB	=	method blank
MDL	=	method detection limit
N	=	normal (field) sample
NC	=	not calculated
ND	=	not detected
NYSDEC	=	New York State Department of Environmental Conservation
PQL	=	practical quantitation limit
QA	=	quality assurance
QC	=	quality control
RPD	=	relative percent difference
RRF	=	relative response factor
RSD	=	relative standard deviation
SDG	=	sample delivery group
TRG	=	target compound
%D	=	percent difference
%RSD	=	percent relative standard deviation
ug/m^3	=	microgram per cubic meter

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: May 18, 2026	Completed by: Sayward Gohman-Kramer

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- NYSDEC Division of Environmental Remediation Guidance for Data Deliverables and the Development of Data Usability Summary Reports (in DER-10, May 2010)
- EPA Region 2 Data Validation
    - SOP NO. HW-31, Revision 6, Volatile Organic Compounds in Air Contained in Canisters by Method TO-15

This validation was performed under Category B guidelines. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

Project ID	Lab Work Order	Laboratory Report
EE1705007.0028	JE31452	SGS North America – Dayton

Table 1 Sample Listing Summary

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Field QC	ID Corrections
JE31452	AS	G518-SV01-0426	JE31452-1	4/2/2026 12:10		
JE31452	AS	G518-SV01-0426-D	JE31452-2	4/2/2026 12:10	FD	
JE31452	AI	G518-BA01-0426	JE31452-3	4/2/2026 12:10		
JE31452	AI	G518-FA01-0426	JE31452-4	4/2/2026 12:12		
JE31452	AO	G518-OA01-0426	JE31452-5	4/2/2026 12:14		

Table 1A Sample Test Summary

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
JE31452	AS	TO-15	Volatile Organic Compounds by GC/MS	1	N
JE31452	AI	TO-15	Volatile Organic Compounds by GC/MS	2	N
JE31452	AS	TO-15	Volatile Organic Compounds by GC/MS	1	FD
JE31452	AO	TO-15	Volatile Organic Compounds by GC/MS	1	N

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	Yes.
Did coolers arrive at lab between 2 and 6°C and in good condition as indicated on COC and Receipt Form?	Thermal preservation is not required.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples	However, 1 per 20 field QC frequency will be evaluated at end of sampling event. 1 Field Duplicate per 4 samples.
Case narrative present and complete?	Yes. The air canisters were batched certified to be below the reporting limit for all target analytes.
Any holding time violations?	No.

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Method Blanks Results (Table 2)
- Surrogates Outside Limits (Table 3)
- LCS Outside Limits (Table 4)
- CCV/ICV Outside Limits (Table 5)
- Internal Standard Outside Limits (Table 6)
- Reanalysis/Dilution Results (Table 7)
- Duplicate Results (Table 8)

Go to List

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: May 18, 2026	Completed by: Sayward Gohman-Kramer

Volatile Organic Compounds by Method TO-15	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or field blanks (see Table 2)?	No.
For samples, if results are < 2 times the blank or < 4 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Not applicable.
Are surrogates for method blanks, LCS, and samples within limits? (see Table 3)	Yes.
Is Laboratory QC frequency at least one blank and LCS with each batch?	Yes.
Is LCS within QC criteria (see Table 4)? If out, and the recovery is high with no positive values, then no data qualification is required.	No. Bromoform and dibromochloromethane were recovered above acceptance criteria in LCS V7W721-BS. All samples were non-detect for these compounds; therefore, no qualifications were made.
Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix (see Table 6)?	Yes.
Is initial calibration for target compounds <30 %RSD or curve fit? (see Table 5)	No. Bromoform exhibited high %RSD in calibration curve V7W709-ICC709. All associated samples were non-detect; therefore, no qualification was made.
Is the initial calibration verification for target compounds between laboratory limits or 70-130%? (see Table 5)	Yes.
Is continuing calibration for target compounds <30 %D? (see Table 5)	No. Bromoform and dibromochloromethane were recovered outside the acceptance criteria in CCV V7W721-CC709. All samples were non-detect for these compounds; therefore, results were UJ qualified.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	No.
For TICs are there any system related compounds that should not be reported?	No.
Do duplicate results show good precision for all compounds except TICs (see Table 8)?	No. Isopropanol and methylene chloride were outside QC criteria of 50% RPD between samples GC518-SV01-0426 and its field duplicate GC518-SV01-0426-D. The difference between results was <2x the PQL; therefore, results were not qualified.

Quantitation Limits and Data Assessment: Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the TO-15 analysis. These results were qualified as estimated (J) by the laboratory.

Data Validation Qualifiers Definitions:

UJ - The analyte was not detected above the reported sample quantitation limit. The analyte QC analysis fails outside the primary acceptance limits. The "UJ" qualified data are not excluded from further review or consideration. The 'UJ' qualified data may be biased low.

Summary of Findings
• Bromoform and dibromochloromethane were UJ qualified in all samples due to poor CCV recovery.

Table 2 - List of Positive Results for Blank Samples
None.

Table 2A - List of Samples Qualified for Method Blank Contamination
None.

Table 3 – List of Samples with Surrogates outside Control Limits
None.

Table 4 – List of LCS Recoveries outside Control Limits

Method	Sample Name	Sample Type	Analyte	LCS(D) R%	Low Limit	High Limit	Associated Samples	Qualifier
TO-15	V7W721-BS V7W721-BSD	LCS	Bromoform	134 133	70	130	All Samples	None – High and ND
			Dibromochloromethane	139 139	70	130		None – High and ND

Table 4A – List of LCS RPD outside Control Limits
None.

Table 5 – List of ICAL/ICV/CCV recoveries outside Control Limits

Method	Sample Name	Sample Type	Analyte	RRF, %RSD or %D	RRF, %RSD or %D Limit	Associated Samples	Qualifier
TO-15	V7W709-ICC709	CAL	Bromoform	34.31	30	All Samples	None – ND
TO-15	V7W721-CC709	CCV	Dibromochloromethane	-40.6	30	All Samples	UJ
			Bromoform	-34.1	30		UJ

Table 6 – Internal Standard Outside Control Limits
None.

Table 7 – Samples that were Re-analyzed/Diluted
None.

Table 8 – Summary of Duplicate Results

Method	Analyte	Unit	Matrix	PQL	GC518-SV01-0425	GC518-SV01-0425-D	RPD	RPD Rating	Qualifier
TO-15	Acetone	ug/m3	AS	1.9	18	19	1	5.4%	None

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: May 18, 2026	Completed by: Sayward Gohman-Kramer

Method	Analyte	Unit	Matrix	PQL	GC518-SV01-0425	GC518-SV01-0425-D	RPD	RPD Rating	Qualifier
TO-15	Carbon Disulfide	ug/m3	AS	2.5	1.5	1.6	0.1	6.5%	None
TO-15	Isopropyl Alcohol	ug/m3	AS	2.0	5.2	8.8	3.6	51.4%	None - <2x PQL
TO-15	Methyl Ethyl Ketone	ug/m3	AS	2.4	1.5	1.7	0.2	12.5%	None
TO-15	Methyl Isobutyl Ketone	ug/m3	AS	3.3	11	11	0	0.0%	None
TO-15	Methylene Chloride	ug/m3	AS	2.8	ND	3.8	3.8	NC	None - <2x PQL
TO-15	Tetrachloroethylene	ug/m3	AS	1.1	17	18	1	5.7%	None
TO-15	Toluene	ug/m3	AS	3.0	2.6	2.7	0.1	3.8%	None

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: May 18, 2026	Completed by: Sayward Gohman-Kramer

Acronym List and Table Key:

AI	=	indoor ambient air
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AS	=	sub slab soil vapor
Abs Diff	=	absolute difference
CCV	=	continuing calibration verification
COC	=	chain of custody
DUSR	=	data usability summary report
EPA	=	Environmental Protection Agency
FD	=	field duplicate
GC/MS	=	gas chromatography / mass spectrometry
ICAL	=	initial calibration
ICV	=	initial calibration verification
LCS	=	laboratory control sample
MB	=	method blank
MDL	=	method detection limit
N	=	normal (field) sample
NC	=	not calculated
ND	=	not detected
NYSDEC	=	New York State Department of Environmental Conservation
PQL	=	practical quantitation limit
QA	=	quality assurance
QC	=	quality control
RPD	=	relative percent difference
RRF	=	relative response factor
RSD	=	relative standard deviation
SDG	=	sample delivery group
TRG	=	target compound
%D	=	percent difference
%RSD	=	percent relative standard deviation
ug/m^3	=	microgram per cubic meter

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: April 13, 2026	Completed by: Sayward Gohman-Kramer

C bgvThe analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- NYSDEC Division of Environmental Remediation Guidance for Data Deliverables and the Development of Data Usability Summary Reports (in DER-10, May 2010)
- EPA Region 2 Data Validation
    - SOP NO. HW-31, Revision 6, Volatile Organic Compounds in Air Contained in Canisters by Method TO-15

This validation was performed under Category B guidelines. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

Project ID	Lab Work Order	Laboratory Report
EE1705007.0028	JE31449	SGS North America – Dayton

Table 1 Sample Listing Summary

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Field QC	ID Corrections
JE31449	AI	GC520-FA01-0426	JE31449-1	4/3/2025 9:18		
JE31449	AI	GC520-FA02-0426	JE31449-2	4/3/2025 9:18		
JE31449	AO	GC520-OA01-0426	JE31449-3	4/3/2025 9:16		

Table 1A Sample Test Summary

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
JE31449	AI	TO-15	Volatile Organic Compounds by GC/MS	2	N
JE31449	AO	TO-15	Volatile Organic Compounds by GC/MS	1	N

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	Yes.
Did coolers arrive at lab between 2 and 6°C and in good condition as indicated on COC and Receipt Form?	Thermal preservation is not required.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples	No field duplicate associated with this SDG was collected. However, 1 per 20 field QC frequency will be evaluated at end of sampling event.
Case narrative present and complete?	Yes. The air canisters were batched certified to be below the reporting limit for all target analytes.
Any holding time violations?	No.

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Method Blanks Results (Table 2)
- Surrogates Outside Limits (Table 3)
- LCS Outside Limits (Table 4)
- CCV/ICV Outside Limits (Table 5)
- Internal Standard Outside Limits (Table 6)
- Reanalysis/Dilution Results (Table 7)

Go to List

Volatile Organic Compounds by Method TO-15	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or field blanks (see Table 2)?	No.
For samples, if results are < 2 times the blank or < 4 times the blank for common laboratory contaminantsw, then "U" flag data. Qualification also applies to TICs.	Not applicable.
Are surrogates for method blanks, LCS, and samples within limits? (see Table 3)	Yes.
Is Laboratory QC frequency at least one blank and LCS with each batch?	Yes.
Is LCS within QC criteria (see Table 4)? If out, and the recovery is high with no positive values, then no data qualification is required.	Yes.
Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix (see Table 6)?	Yes.
Is initial calibration for target compounds <30 %RSD or curve fit? (see Table 5)	No. Benzyl chloride exhibited high %RSD in calibration curve V2W3191-ICC3191. All associated samples were non-detect; therefore, no qualification was made.
Is the initial calibration verification for target compounds between laboratory limits or 70-130%? (see Table 5)	Yes.
Is continuing calibration for target compounds <30 %D? (see Table 5)	Yes.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	No.
For TICs are there any system related compounds that should not be reported?	No.

Quantitation Limits and Data Assessment: Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the TO-15 analysis. These results were qualified as estimated (J) by the laboratory.

Summary of Findings
• No data usability issues were observed.

Table 2 - List of Positive Results for Blank Samples
None.

Table 2A - List of Samples Qualified for Method Blank Contamination
None.

Table 3 – List of Samples with Surrogates outside Control Limits
None.

Table 4 – List of LCS Recoveries outside Control Limits
None.

Table 4A – List of LCS RPD outside Control Limits
None.

Table 5 – List of ICAL/ICV/CCV recoveries outside Control Limits

Method	Sample Name	Sample Type	Analyte	RRF, %RSD or %D	RRF, %RSD or %D Limit	Associated Samples	Qualifier
TO-15	V2W3191-ICC3191	CAL	Benzyl Chloride	36.37	30	All Samples	None - ND

Table 6 – Internal Standard Outside Control Limits
None.

Table 7 – Samples that were Re-analyzed/Diluted
None.

Data Usability Summary Report	Project: Gowanus Canal SVI
Date Completed: April 13, 2026	Completed by: Sayward Gohman-Kramer

Acronym List and Table Key:

AI	=	indoor ambient air
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LCS	=	laboratory control sample
MB	=	method blank
MDL	=	method detection limit
N	=	normal (field) sample
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%RSD	=	percent relative standard deviation
ug/m^3	=	microgram per cubic meter

Data Usability Summary Report	Project: Gowanus Canal SVI
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The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- NYSDEC Division of Environmental Remediation Guidance for Data Deliverables and the Development of Data Usability Summary Reports (in DER-10, May 2010)
- EPA Region 2 Data Validation
    - SOP NO. HW-31, Revision 6, Volatile Organic Compounds in Air Contained in Canisters by Method TO-15

This validation was performed under Category B guidelines. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

Project ID	Lab Work Order	Laboratory Report
EE1705007.0028	JE31798	SGS North America – Dayton

Table 1 Sample Listing Summary

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Field QC	ID Corrections
JE31798	AS	GC521-SV01-0426	JE31798-1	4/3/2026 13:06		
JE31798	AI	GC521-BA01-0426	JE31798-2	4/3/2026 13:06		
JE31798	AI	GC521-BA02-0426	JE31798-3	4/3/2026 13:05		
JE31798	AI	GC521-FA01-0426	JE31798-4	4/3/2026 13:05		
JE31798	AO	GC521-OA01-0426	JE31798-5	4/3/2026 13:05		

Table 1A Sample Test Summary

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
JE31798	AS	TO-15	Volatile Organic Compounds by GC/MS	1	N
JE31798	AI	TO-15	Volatile Organic Compounds by GC/MS	3	N
JE31798	AO	TO-15	Volatile Organic Compounds by GC/MS	1	N

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	Yes.
Did coolers arrive at lab between 2 and 6°C and in good condition as indicated on COC and Receipt Form?	Thermal preservation is not required.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples	No field duplicate associated with this SDG was collected. However, 1 per 20 field QC frequency will be evaluated at end of sampling event.
Case narrative present and complete?	Yes. The air canisters were batched certified to be below the reporting limit for all target analytes.
Any holding time violations?	No.

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Method Blanks Results (Table 2)
- Surrogates Outside Limits (Table 3)
- LCS Outside Limits (Table 4)
- CCV/ICV Outside Limits (Table 5)
- Internal Standard Outside Limits (Table 6)
- Reanalysis/Dilution Results (Table 7)

Go to List

Volatile Organic Compounds by Method TO-15	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or field blanks (see Table 2)?	No.
For samples, if results are < 2 times the blank or < 4 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Not applicable.
Are surrogates for method blanks, LCS, and samples within limits? (see Table 3)	Yes.
Is Laboratory QC frequency at least one blank and LCS with each batch?	Yes.
Is LCS within QC criteria (see Table 4)? If out, and the recovery is high with no positive values, then no data qualification is required.	No. Dibromochloromethane was recovered above acceptance criteria in LCS V7W723-BS. All samples were non-detect for this compound; therefore, no qualifications were made.
Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix (see Table 6)?	Yes.
Is initial calibration for target compounds <30 %RSD or curve fit? (see Table 5)	No. Bromoform exhibited high %RSD in calibration curve V7W709-ICC709. All associated samples were non-detect; therefore, no qualification was made.
Is the initial calibration verification for target compounds between laboratory limits or 70-130%? (see Table 5)	Yes.
Is continuing calibration for target compounds <30 %D? (see Table 5)	No. Bromoform and dibromochloromethane were recovered outside the acceptance criteria in CCV V7W723-CC709. All samples were non-detect for these compounds; therefore, results were UJ qualified.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	Samples GC521-SV01-0426 and GC521-BA01-0426 were diluted to bring concentrations within the calibration range. The reporting limits have been adjusted accordingly. No qualification was made based on dilutions. No data usability issues were observed.
For TICs are there any system related compounds that should not be reported?	No.

Quantitation Limits and Data Assessment: Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the TO-15 analysis. These results were qualified as estimated (J) by the laboratory.

Data Validation Qualifiers Definitions:

UJ - The analyte was not detected above the reported sample quantitation limit. The analyte QC analysis fails outside the primary acceptance limits. The "UJ" qualified data are not excluded from further review or consideration. The 'UJ' qualified data may be biased low.

Summary of Findings
• Bromoform and dibromochloromethane were UJ qualified in all samples due to poor CCV recovery.

Table 2 - List of Positive Results for Blank Samples
None.

Table 2A - List of Samples Qualified for Method Blank Contamination
None.

Table 3 – List of Samples with Surrogates outside Control Limits
None.

Table 4 – List of LCS Recoveries outside Control Limits

Method	Sample Name	Sample Type	Analyte	LCS(D) R%	Low Limit	High Limit	Associated Samples	Qualifier
TO-15	V7W723-BS V7W723-BSD	LCS	Dibromochloromethane	140 142	70	130	All Samples	None – High and ND

Table 4A – List of LCS RPD outside Control Limits
None.

Table 5 – List of ICAL/ICV/CCV recoveries outside Control Limits

Method	Sample Name	Sample Type	Analyte	RRF, %RSD or %D	RRF, %RSD or %D Limit	Associated Samples	Qualifier
TO-15	V7W709-ICC709	CAL	Bromoform	34.31	30	All Samples	None – ND
TO-15	V7W723-CC709	CCV	Dibromochloromethane	-40.0	30	All Samples	UJ
			Bromoform	-31.8	30		UJ

Table 6 – Internal Standard Outside Control Limits
None.

Table 7 – Samples that were Re-analyzed/Diluted

Method	Batch	Sample	Laboratory ID	Analyte	Reason
TO-15	V7W723	GC521-SV01-0426	JE31798-1	All Analytes	1.55x Dilution
TO-15	V7W723	GC521-BA01-0426	JE31798-2	All Analytes	1.48x Dilution

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