

<b>Data Usability Summary Report</b>	<b>Project: Mr. C's Cleaners</b>
<b>Date Completed: December 18, 2012</b>	<b>Completed by: B. Kroon</b>

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness per NYSDEC Division of Environmental Remediation Guidance for the Development of DUSRs (March 2010). Specific criteria for QC limits were obtained from the project QAPP. Compliance with the project QA program is indicated on the in the checklist and tables. Any major or minor concerns affected data usability are summarized listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

<b>ProjectID</b>	<b>Lab Work Order</b>
Mr. C's Cleaners	L2327

**Table 1 Sample Summary Tables from Electronic Data Deliverable**

<b>Work Order</b>	<b>Matrix</b>	<b>Sample ID</b>	<b>Lab ID</b>	<b>ID Corrections</b>
L2327	GW	MW8-BSNOV12	L2327-01	
L2327	GW	MP16SBSNOV12	L2327-02	
L2327	GW	MW07-BSNOV12	L2327-03	
L2327	GW	MW07-BSNOV12Q	L2327-04	
L0271	GW	MP14I-BS-NOV12	L2327-05	
L2327	WQ	TB01-NOV12	L2327-06	

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<b>General Sample Information</b>	
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 Cooler Receipt Form?	Yes
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples Trip Blank - Every cooler with VOCs waters only Equipment Blank - 1/ set of samples per day?	Yes – Project QC goals have been met.
All ASP Forms complete?	Yes
Case narrative present and complete?	Yes
Any holding time violations (See table below)?	No

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

- Method Blanks Results (Table 2)
- Surrogates Outside Limits (Table 3)
- MS/MSD Outside Limits (Table 4)
- LCS Outside Limits (Table 5)
- Re-analysis Results (Table 6)
- Field Duplicate Results (Table 7)

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<b>Volatile Organics by GCMS</b>	
<b>Description</b>	<b>Notes and Qualifiers</b>
Any compounds present in method, trip and field blanks (see Table 2)?	No
For samples, if results are <5 times the blank or < 10 times blank for common laboratory contaminants then "U" flag data. Qualification also applies to TICs.	No results qualified
Surrogate for method blanks and LCS within limits?	Yes
Surrogate for samples and MS/MSD within limits? (See Table 3). All samples should be re-analyzed for VOCs? Samples should re-analyzed if >1 BN and/or > AP for BNAs is out. Matrix effects should be established.	Yes
Laboratory QC frequency one blank and LCS with each batch and one set of MS/MSD per 20 samples?	Yes
MS/MSD within QC criteria (see Table 4)? If out and LCS is compliant, then J flag positive data in original sample due to matrix?	No, several compounds were out of compliance, and qualified as noted on Table 4.
LCS within QC criteria (see Table 5)? If out, and the recovery high with no positive values, then no data qualification is required.	Yes, LCS for Bromomethane was out of compliance. Results are qualified as noted on Table 5.
Were any samples re-analyzed or diluted (see Table 6)? For any sample re-analysis and dilutions is only one reportable result by flagged?	Yes, only one result is reportable.

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<b>Volatile Organics by GCMS</b>	
<b>Description</b>	<b>Notes and Qualifiers</b>
For TICs are there any system related compounds that should not be reported?	No.
Do field duplicate results show good precision for all compounds except TICs (see Table 7)?	Yes

<b>Metals by ICP and Mercury by CVAA</b>	
<b>Description</b>	<b>Notes and Qualifiers</b>
Any compounds present in method and field blanks as noted on Table 2?	No.
For samples, if results are <5 times the blank then "U" flag data.	No results are qualified.
Laboratory QC frequency one blank and LCS with each batch and one set of MS/MSD per 20 samples?	Yes
MS/MSD within QC criteria (see Table 4)? QC limits are not applicable to sample results greater than 4 times spike amount. All N flagged data for MS are flagged J as estimated.	Yes
Were elements recovered $\leq 30\%$ ? If so, "R" flag associated NDs on Form 1's.	No
LCS within QC criteria (see Table 5)? If out, and the recovery high with no positive values, then no data qualification is required.	Yes
Is there one serial dilution per 20 samples? Flag all data reported with an "E" as "J".	Yes
Spot check ICS recoveries 80-120%. Contact lab.	All are acceptable.
Spot check ICV 95-105%. Contact lab.	All are acceptable.
Spot check CCV 90-110% or 80-120% for Hg. Contact lab.	All are acceptable.
Do field duplicate results show good precision for all compounds (see Table 7)?	No, Iron was qualified "J" as estimated due to field duplicate precision.

<b>General Analytical Methods</b>	
<b>Description</b>	<b>Notes and Qualifiers</b>
Any compounds present in method and field blanks as noted on Table 2?	No.
For samples, if results are <5 times the blank then "U" flag data.	No results are qualified.
Laboratory QC frequency one blank and LCS with each batch and one set of MS/MSD per 20 samples?	Yes
MS/MSD within QC criteria (see Table 4)? QC limits are not applicable to sample results greater than 4 times spike amount.	Yes
LCS within QC criteria (see Table 5)? If out, and the recovery high with no positive values, then no data qualification is required.	Yes
Do field duplicate results show good precision for all compounds (see Table 7)?	Yes

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<b>Summary of Potential Impacts on Data Usability</b>
<b>Major Concerns</b>
None
<b>Minor Concerns</b>
Sample results qualified based on LCS and MS/MSD recoveries.

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**Table 2 - List of Positive Results for Blank Samples**

None

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

None

**Table 2B - List of Samples Qualified for Field Blank Contamination**

None.

**Table 3 - List of Samples with Surrogates outside Control Limits**

None

**Table 4 - List MS/MSD Recoveries and RPDs outside Control Limits**

Method	Sample ID	Analyte	Orig Result	Rec	Dilution Factor	Low Limit	High Limit	Sample Qual
SW8260	MP16SBSNOV16MS	Bromomethane	ND	132	1	70	130	J
SW8260	MP16SBSNOV16MS	Hexachlorobutadiene	ND	140	1	70	130	J
SW8260	MP16SBSNOV16MS	Trichlorofluoromethane	ND	135	1	70	130	J

**Table 5 - List LCS Recoveries outside Control Limits**

Sample ID	Analyte	Method	Rec.	Low Limit	High Limit	No. of Affected Samples	Samp Qual
1227427-BS1	Bromomethane	SW8260	148	70	130	6	J

**Table 6 –Samples that were Reanalyzed**

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Sample ID	Lab ID	Method	Sample Type	Action
MP16SBSNOV12	L2327-02	SW8260	SAMP	Report for non-diluted compounds
MP16SBSNOV12	L2327-02	SW8260	SAMP	Report for E flag data only.
MW07-BSNOV12	L2327-03	SW8260	SAMP	Report for non-diluted compounds
MW07-BSNOV12	L2327-03	SW8260	SAMP	Report for E flag data only.
MW07-BSNOV12Q	L2327-04	SW8260	SAMP	Report for non-diluted compounds
MW07-BSNOV12Q	L2327-04	SW8260	SAMP	Report for E flag data only.
MP8BSNOV12	L2327-01	SW8260	SAMP	Report for non-diluted compounds
MP8BSNOV12	L2327-01	SW8260	SAMP	Report for E flag data only.

**Table 7 – Summary of Field Duplicate Results**

Method	Analyte	Units	MW07-BSNOV12	MW07-BSNOV12Q	RPD	Rating	Sample Qualifier
E300.0	NITROGEN, NITRATE (AS N)	mg/l	0.79	0.91	14.12	Good	None
E300.0	SULFATE (AS SO4)	mg/l	26.4	28.1	6.24	Good	None
SM5310B	TOTAL ORGANIC CARBON	mg/l	1.24	1.16	6.67	Good	None
SW6010	IRON	mg/l	0.0536	0.148	93.65	Poor	J
SW8260	TETRACHLOROETHYLENE(PCE)	ug/l	609	609	0.00	Good	None

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**Key:**

A = Analyte

NC = Not Calculated

ND = Not Detected

PQL = Practical Quantitation Limit

RPD = Relative Percent Difference

T = Tentatively Identified Compound