

Appendix J
Soil Data Usability Summary Report

Data Usability Summary Report

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Highland Plaza Project
TestAmerica, Inc. SDG#480-89294-1
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Highland Plaza Project
SDG# 480-89294-1

DELIVERABLES

This Data Usability Summary Report (DUSR) was prepared by evaluating the analytical data package for Environmental & Geologic Management Services (reissued; March 22, 2016), project located at Highland Plaza Project, TestAmerica, Inc. SDG#480-89294-1 submitted to Vali-Data of WNY, LLC on February 26, 2016. This DUSR has been prepared in general compliance with NYSDEC Analytical Services Protocols and USEPA National Functional Guidelines. The laboratory performed the analyses using USEPA method Volatile Organics (8260C), Semi-Volatile Organics (8270D), Pesticides (8081B), PCB (8082A), Herbicides (8151A), Inorganics (6010C), Mercury (7471B) and in accordance with wet chemistry methods.

VOLATILE ORGANIC COMPOUNDS

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Internal Standard (IS) Area Performance
- Surrogate Spike Recoveries
- Method Blank
- Field Duplicate Sample Precision
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration
- GC/MS Performance Check

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES

The data are acceptable for use except where qualified below in Surrogate Spike Recoveries, Method Blank, MS/MSD, Initial Calibration and Continuing Calibration.

DATA COMPLETENESS

All criteria were met.

NARRATIVE AND DATA REPORTING FORMS

All criteria were met.

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Data was not reported to 3 significant figures. This does not affect the usability of the data.

CHAIN OF CUSTODY AND TRAFFIC REPORTS

All criteria were met.

HOLDING TIMES

All holding times were met except SB-16 6"-12", SB-16 23'-24' and Field Duplicate #1 were outside the 48 hour method hold time and are qualified with an 'H'. These samples were analyzed within the 14 day hold time, so no further action is required.

INTERNAL STANDARD (IS)

All criteria were met except the area of all of the internal standards was outside QC limits, low in SB-26 17"-22". The sample was rerun with acceptable results.

SURROGATE SPIKE RECOVERIES

All criteria were met except the %Rec of 1,2-Dichloroethane-d₄ was outside QC limits, high in SB-20 6"-18". Associated detected target analytes in this sample should be recorded as estimated high.

The %Rec of Toluene-d₈ was outside QC limits, low in SB-26 17"-22". Associated target analytes should be qualified as estimated in this sample.

METHOD BLANK

All criteria were met except Toluene was detected above the MDL, below the reporting limit and is qualified as estimated in MB 480-269355/2-A. Tetrachloroethene was detected above the MDL, below the reporting limit and is qualified as estimated in MB 480-269508/2-A. Acetone, Tetrachloroethene and Methylene Chloride were detected above the MDL, below the reporting limit and are qualified as estimated in MB 480-269831/2-A. Acetone and Methylene Chloride were detected above the MDL, below the reporting limit and are qualified as estimated in MB 480-269966/2-A. Xylene and Methylene Chloride were detected above the MDL, below the reporting limit and are qualified as estimated in MB 480-270108/3-A. If these target analytes are detected in the associated samples below the reporting limit, then they should be qualified as 'non-detect'(U) at the reporting limit.

FIELD DUPLICATE SAMPLE PRECISION

All criteria were met.

LABORATORY CONTROL SAMPLES

All criteria were met.

MS/MSD

All criteria were met except the %Rec of Tetrachloroethene was outside QC limits, low in SB-19 6"-18"MS/MSD. The %Rec of 1,2-Dichlorobenzene, Ethyl benzene and Tetrachloroethene was outside QC limits, low in SB-28 10-22". The RPD of 1,2,4-Trimethylbenzene, 1,2-Dichlorobenzene, Chlorobenzene, Ethylbenzene, Toluene and Trichloroethene was outside QC

limits between SB-19 6"-18"MSD and SB-19 6"-18"MSD. These target analytes should be qualified as estimated in the associated sample, matrix spike and matrix spike duplicate.

The %Rec of several other target analytes was outside QC limits in the matrix spike or the matrix spike duplicate but with limits in its counterpart, so no further action is required.

COMPOUND QUANTITATION

All criteria were met.

INITIAL CALIBRATION

All criteria were met except the RRF of 1,4-Dioxane was outside ASP outer QC limits in the initial calibrations. This target analyte should be qualified as estimated in the associated samples, blanks and spikes.

The RRF of Trichloroethene was outside QC limits in the initial calibration performed on 10/2/15. ASP allows for up to two target analytes to be outside QC limits without further action.

Alternate forms of regression were performed on all target analytes whose %RSD >20.0%, with acceptable results.

CONTINUING CALIBRATION

All criteria were met except the %D of 1,4-Dioxane was outside ASP outer QC limits in all of the continuing calibrations. 1,4-Dioxane should be qualified as estimated in the associated blanks, spikes and samples.

The %D of Bromomethane was outside ASP QC limits in CCVIS 480-269965/3 and CCVIS 480-271224/6. The RRF of Trichloroethene was outside QC limits in CCVIS 480-271045/22, 480-271477/2, 480-271334/6 and 480-271723/2. ASP allows for up to two target analytes to be outside QC limits without further action.

GC/MS PERFORMANCE CHECK

All criteria were met.

SEMIVOLATILE ORGANIC COMPOUNDS

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Internal Standard (IS) Area Performance
- Surrogate Spike Recoveries
- Method Blank
- Laboratory Control Samples

- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration
- GC/MS Performance Check

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES

The data are acceptable for use but are qualified below in MS/MSD.

DATA COMPLETENESS

All criteria were met.

NARRATIVE AND DATA REPORTING FORMS

All criteria were met.

Data was not reported to 3 significant figures. This does not affect the usability of the data.

CHAIN OF CUSTODY AND TRAFFIC REPORTS

All criteria were met.

HOLDING TIMES

All holding times for the sample were met.

INTERNAL STANDARD (IS)

All criteria were met.

SURROGATE SPIKE RECOVERIES

All criteria were met except the %Rec several of the surrogates was outside QC limits due to dilution in AWSS6- 0"-4", AWSS7- 0"-4", AWSS9- 0"-4", AWSS11- 0"-4", SB-24 6"-14" and SB-27 0"-14". No further action is required.

METHOD BLANK

All the criteria were met.

FIELD DUPLICATE SAMPLE PRECISION

All criteria were met.

LABORATORY CONTROL SAMPLES

All criteria were met.

MS/MSD

All criteria were met except the %Rec of Acenaphthene, Fluorene and Pyrene was outside QC limits, low in SB-28 10-22"MS/MSD and should be qualified as estimated in SB-28 10-22" and SB-28 10-22"MS/MSD.

COMPOUND QUANTITATION

All criteria were met.

INITIAL CALIBRATION

All criteria were met.

Alternate forms of regression were performed on all target analytes whose %RSD >20.0%, with acceptable results.

CONTINUING CALIBRATION

All criteria were met.

GC/MS PERFORMANCE CHECK

All criteria were met.

PESTICIDES

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Surrogate Spike Recoveries
- Method Blank
- Field Duplicate Precision
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES

The data are acceptable for use but are qualified below in Method Blank, MS/MSD, Compound Quantitation and Continuing Calibration.

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DATA COMPLETENESS

All criteria were met.

NARRATIVE AND DATA REPORTING FORMS

All criteria were met.

CHAIN OF CUSTODY AND TRAFFIC REPORTS

All criteria were met.

HOLDING TIMES

All holding times for the samples were met.

SURROGATE SPIKE RECOVERIES

All criteria were met except the %Rec of the surrogates was diluted out in samples, AWSS6- 0"-4", AWSS7- 0"-4", AWSS9- 0"-4", AWSS11- 0"-4" and AWSS6- 0"-4"MS/MSD. No further action is required.

METHOD BLANK

All the criteria were met except 4,4'-DDD, alpha-BHC and Endosulfan II were detected above the MDL, below the reporting limit and are qualified as estimated in MB 480-269550/1-A. 4,4'-DDE was detected above the MDL, below the reporting limit and is qualified as estimated in MB 480-269760/1-A. If these target analytes were detected below the reporting limit in the associated samples, they should be recorded as 'non-detect' at the reporting limit. If they are detected above the reporting limit in the associated samples, they should be qualified as estimated high.

FIELD DUPLICATE SAMPLE PRECISION

All criteria were met.

LABORATORY CONTROL SAMPLES

All criteria were met.

MS/MSD

All criteria were met except several target analytes were diluted out in AWSS6- 0"-4"MS/MSD. The %Rec of several target analytes was outside QC limits in SB-28 10-22"MSD but within limits in SB-28 10-22"MS, so no further action is required.

The RPD of 4,4'-DDD, 4,4'-DDE and alpha-Chlordane was outside QC limits between SB-28 10-22"MS and SB-28 10-22"MSD and should be qualified as estimated in SB-28 10-22" and SB-28 10-22"MS/MSD.

COMPOUND QUANTITATION

All criteria were met except the RPD between the columns was outside QC limits for Endosulfan II in SB-16 6"-12", SB-17 6"-12", SB-17 23'-24', Field Duplicate #1, SB-19 6"-18", SB-28 10-22", SB-24 23'-24' and MB 480-269550/1-A. The RPD between the columns was outside QC limits

for delta-BHC in SB-16 6"-12", SB-28 10-22" and SB-24 23'-24'. The RPD between the columns was outside QC limits for 4,4'-DDT and Endosulfan Sulfate in SB-24 6"-14". The RPD between the columns was outside QC limits for 4,4'-DDT and alpha-BHC in AWSS6- 0"-4"MS. The RPD between the columns was outside QC limits for 4,4'-DDE in AWSS6- 0"-4"MSD. The RPD between the columns was outside QC limits for 4,4'-DDE, 4,4'-DDT and Endosulfan Sulfate in AWSS7- 0"-4". The RPD between the columns was outside QC limits for beta-BHC, 4,4'-DDT and Endosulfan Sulfate in AWSS9- 0"-4". The RPD between the columns was outside QC limits for alpha-BHC in MB 480-269550/1-A. These target analytes should be qualified as estimated in the associated samples.

INITIAL CALIBRATION

All criteria were met. Linear regression was performed on all target analytes and surrogates with acceptable results.

CONTINUING CALIBRATION

All criteria were met except the %D of Endosulfan I was outside QC limits in CCV 480-270327/12 off column RTX-CLPI. The %D of Endrin was outside QC limits in CCV 480-270327/23 off column RTX-CLPI. The %D of 4,4' DDT was outside QC limits in CCV 480-270116/18 off column RTX-CLPI. The results for these target analytes should be qualified as estimated in the associated samples, blanks and spikes.

PCB

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Surrogate Spike Recoveries
- Method Blank
- Field Duplicate Precision
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES

The data are acceptable for use but are qualified below in Laboratory Control Samples, Initial Calibration and Continuing Calibration.

DATA COMPLETENESS

All criteria were met.

NARRATIVE AND DATA REPORTING FORMS

All criteria were met.

CHAIN OF CUSTODY AND TRAFFIC REPORTS

All criteria were met.

HOLDING TIMES

All holding times for the samples were met.

SURROGATE SPIKE RECOVERIES

All criteria were met.

METHOD BLANK

All the criteria were met.

FIELD DUPLICATE SAMPLE PRECISION

All criteria were met.

LABORATORY CONTROL SAMPLES

All criteria were met except the %Rec of Aroclor 1016 was outside ASP QC limits, high in LCS 480-269558/2-A and should be qualified as estimated high.

MS/MSD

All criteria were met.

COMPOUND QUANTITATION

All criteria were met.

INITIAL CALIBRATION

All criteria were met except a single point calibration was used for Aroclor 1254. ASP requires a five-point calibration for all detected Aroclors. Aroclor 1254 should be qualified as estimated in all samples in which the peak pattern was identified.

CONTINUING CALIBRATION

All criteria were met except the %D of DCBP was outside QC limits off column ZB-5 in CCV 480-269669/8, CCV 480-269669/19, CCV 480-269669/28, CCV 480-270054/23, CCV 480-270054/35

and CCV 480-270054/42. DCBP should be qualified as estimated in the associated samples, blanks and spikes off column ZB-5.

The %D of Aroclor 1016 peaks 2, 3, 4 was outside QC limits off column ZB-5 in CCV 480-269669/28. This target analyte should be qualified as estimated in the associated sample, blank and spikes off column ZB-5.

HERBICIDES

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Surrogate Spike Recoveries
- Method Blank
- Field Duplicate Precision
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES

The data are acceptable for use.

DATA COMPLETENESS

All criteria were met.

NARRATIVE AND DATA REPORTING FORMS

All criteria were met.

CHAIN OF CUSTODY AND TRAFFIC REPORTS

All criteria were met.

HOLDING TIMES

All holding times for the samples were met.

SURROGATE SPIKE RECOVERIES

All criteria were met.

METHOD BLANK

All the criteria were met.

FIELD DUPLICATE SAMPLE PRECISION

All the criteria were met.

LABORATORY CONTROL SAMPLES

All criteria were met.

MS/MSD

All the criteria were met.

COMPOUND QUANTITATION

All criteria were met.

INITIAL CALIBRATION

All criteria were met.

Quadratic regression was used on all target analytes and surrogates with acceptable results.

CONTINUING CALIBRATION

All criteria were met.

METALS

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Blanks
- Laboratory Control Sample
- MS/MSD
- Field Duplicate
- Serial Dilution
- Compound Quantitation
- Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the

procedures outlined above.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES

The data are acceptable for use but are qualified below in Blanks, MS/MSD, Serial Dilution and Calibration.

DATA COMPLETENESS

All criteria were met.

NARRATIVE AND DATA REPORTING FORMS

All criteria were met.

CHAIN OF CUSTODY AND TRAFFIC REPORTS

All criteria were met.

HOLDING TIMES

All holding times were met.

BLANKS

All criteria were met except Mn was detected in MB 480-269596/1-A and MB 480-269866/1-A above the MDL, below the reporting limit and is qualified as estimated. Associated samples in which this target analyte was detected above the MDL and below the reporting limit should be reported with the reporting limit and 'undetected'. Associated samples in which this target analyte was detected above the reporting limit should be qualified as estimated high.

LABORATORY CONTROL SAMPLE

All criteria were met.

MS/MSD

All criteria were met except the %Rec of Ba was outside QC limits, high in SB-28 10-22"MS/MSD. Ba was within ASP QC limits in the post digest spike, so no further action is required.

The %Rec of Zn was outside QC limits, low in SB-19 6"-18"MS/MSD. Zn was within ASP QC limits in the post digest spike, so no further action is required.

The %Rec of Zn and Pb was outside QC limits, high in AWSS6- 0"-4"MS/MSD. Pb was within ASP QC limits in the post digest spike, so no further action is required for Pb. Zn should be qualified as estimated high in AWSS6- 0"-4", if detected.

The %RPD of Ba and Mn was outside QC limits between SB-19 6"-18"MS and SB-19 6"-18"MSD and should be qualified as estimated. The %RPD of Mn was outside QC limits between SB-28 10-22"MS and SB-28 10-22"MSD and should be qualified as estimated.

FIELD DUPLICATE

All criteria were met.

SERIAL DILUTION

All criteria were met except the %D of Zn was outside QC limits in SB-19 6"-18"SD and AWSS6-0"-4"SD. Zn should be qualified as estimated in SB-19 6"-18" and AWSS6-0"-4". The %D of Be, Mn and Zn were outside QC limits in SB-28 10-22"SD and should be qualified as estimated in SB-28 10-22".

COMPOUND QUANTITATION

All criteria were met.

CALIBRATION

All criteria were met except the %Rec of As was outside QC limits, low in CCVL 480-270286/16. The %Rec of Cu was outside QC limits, low in CCVL 480-270035/25 and CCVL 480-270036/26. The %Rec of Cu and Zn was outside QC limits, low in CCVL 480-270035/37 and CCVL 480-270036/16. The %Rec of Hg was outside QC limits, low in ICVL 480-269774/3. These target analytes should be qualified as estimated low, if detected, and estimated, if not detected, in the associated samples, blanks and spikes.

The %Rec of As was outside QC limits, high in ICVL 480-270035/7, CCVL 480-270035/16 and ICVL 480-270036/7. The %Rec of As and Se was outside QC limits, high in CCVL 480-270036/26. These target analytes should be qualified as estimated high, if detected in the associated samples, blanks and spikes.

GENERAL CHEMISTRY

The following items/criteria were reviewed for this analytical suite:

- %Solids

The items listed above were technically in compliance with the method and SOP criteria with any exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES

The data are acceptable for use except where qualified below.

%SOLIDS

All criteria were met.