

APPENDIX G
USABILITY REPORTS

Attachment 1

BROOKHAVEN NATIONAL LABORATORY

Data Usability Summary Report

Project:	OU3SR90 CA
Sampling Contractor:	EPD Field Team
Analytical Laboratory:	Test America
Analytical Method:	905
Sample Delivery Group:	39529
COC No. / Sample IDs:	39529-004 and 005 (Effluent and EW-1)
Date Sampled:	1/9/18
Parameter(s):	Sr-90

<i>SAMPLE ID</i>	<i>DATA USABILITY QUALIFIERS</i>	<i>EXPLANATION FOR QUALIFIERS</i>
004 and 005	Switched samples	Based on the detections reported for sample 004 (effluent), the result match historical data for EW-1. The results for sample 005 (EW-1) match the historical results for the effluent. Therefore, it has been determined that the samples were switched either in the field or at the laboratory.

Summary:

Reviewed by: John Burke _____ Date: 2/7/18 _____
Subject Matter Expert

Reviewed by: _____ Date: _____
Project Manager

Attachment 1

BROOKHAVEN NATIONAL LABORATORY

Data Usability Summary Report

Project:	FM-WMF
Sampling Contractor:	EPD Field Team
Analytical Laboratory:	Test America
Analytical Method:	905
Sample Delivery Group:	39633
COC No. / Sample IDs:	39633-001 and 003 (055-03 and 066-220)
Date Sampled:	2/28/18
Parameter(s):	Gamma

<i>SAMPLE ID</i>	<i>DATA USABILITY QUALIFIERS</i>	<i>EXPLANATION FOR QUALIFIERS</i>
001	Non-detect	Reanalysis for beryllium-7 did not detect any beryllium-7. Therefore, the result will be changed to 15.7 U error 42.1 MDC 53.4
003	J-N2	Reanalysis for gamma confirmed the presence of Ce-137 but at levels less than the sum of the error and the MDC. In addition, Co-60 and Na-22 were detected at levels less than the sum of the error and the MDC. Therefore, the detections will be used with a J-N2 qualifier meaning the values are estimated and are suspected false positives.

Summary:

Reviewed by: John Burke
Subject Matter Expert

Date: 4/12/18

Reviewed by: _____
Project Manager

Date: _____

Attachment 1


BROOKHAVEN NATIONAL LABORATORY

Data Usability Summary Report

Project:	Airport/LIPA
Sampling Contractor:	BSA
Analytical Laboratory:	Test America
Analytical Method:	524
Sample Delivery Group:	39709
COC No. / Sample IDs:	39709 – 000-453
Date Sampled:	4/4/18
Parameter(s):	VOCs

<i>SAMPLE ID</i>	<i>DATA USABILITY QUALIFIERS</i>	<i>EXPLANATION FOR QUALIFIERS</i>
010	R	Based on historic non-detect or trace levels of toluene in well LIPA extraction well EW-1L (000-453) and the trace levels identified in the subsequent 4/27/18 and 7/11/18 samples, the 200 ug/L detection of toluene in the 4/4/18 sample is deemed a false positive. It was most likely the result of contamination. Therefore, the toluene result is qualified as unusable ®.

Summary:

Reviewed by: Bob Howe 
Subject Matter Expert

Date: 2/5/19

Reviewed by: 
Project Manager

Date: 2/5/19

Attachment 1

BROOKHAVEN NATIONAL LABORATORY

Data Usability Summary Report

Project:	OU III Western South Boundary
Sampling Contractor:	EPD Field Team
Analytical Laboratory:	Test America
Analytical Method:	524.2
Sample Delivery Group:	39764
COC No. / Sample IDs:	39764-001 and 002
Date Sampled:	5/2/18
Parameter(s):	VOCs

<i>SAMPLE ID</i>	<i>DATA USABILITY QUALIFIERS</i>	<i>EXPLANATION FOR QUALIFIERS</i>
001 and 002	Switched Samples	Based on the detections reported for sample 002 (effluent), the result match historical data for the influent. The results for sample 001 (influent) match the historical results for the effluent. Therefore, it has been determined that the samples were switched either in the field or at the laboratory.

Summary:

Reviewed by: John Burke
Subject Matter Expert

Date: 6/25/18

Reviewed by: _____
Project Manager

Date: _____

BROOKHAVEN NATIONAL LABORATORY

Data Usability Summary Report

Project:	<u>OU3 WS-P&T</u>
Sampling Contractor:	<u>EPD Field Sampling Team</u>
Analytical Laboratory:	<u>Test America-Missouri</u>
Analytical Method and/or Parameter:	<u>524.2</u>
Sample Delivery Group:	<u>40107</u>
Chain-of-Custody (COC) No. / Sample IDs:	<u>40107</u>
Date Sampled:	<u>8/14/2018</u>
Parameter(s):	<u>EDB</u>

<i>SAMPLE ID</i>	<i>DATA USABILITY QUALIFIERS</i>	<i>EXPLANATION FOR QUALIFIERS</i>
<u>40107-002</u>	<u>U</u>	<u>Based on historic non-detects for the site ID:119-05 system Effluent. The results were re-checked by the laboratory and found to be a false positive. Analyte has been changed from J to U</u>

Summary:

Reviewed by: Larry D. Singh
Subject Matter Expert

Date: 3/28/2019

Reviewed by: _____
Project Manager

Date: _____

BROOKHAVEN NATIONAL LABORATORY

Data Usability Summary Report

Project:	<u>SITEWD-O3WSB</u>
Sampling Contractor:	<u>R&C Formation LTD</u>
Analytical Laboratory:	<u>Test America-Missouri</u>
Analytical Method and/or Parameter:	<u>901.1, 905, 906.0</u>
Sample Delivery Group:	<u>40302</u>
Chain-of-Custody (COC) No. / Sample IDs:	<u>40302</u>
Date Sampled:	<u>8/9/2018</u>
Parameter(s):	<u>Radionuclides (Europium-154, Sodium-22)</u>

<i>SAMPLE ID</i>	<i>DATA USABILITY QUALIFIERS</i>	<i>EXPLANATION FOR QUALIFIERS</i>
<u>40302-002</u>	<u>J-N2</u>	<u>Europium-154 result was below the addition of the MDC and the error. Based on this and historic non-detects in this well, the results are qualified as J-N2, estimated due to potential false positive.</u>
<u>40302-003</u>	<u>J-N2</u>	<u>Sodium-22 result was below the addition of the MDC and the error. Based on this and historic non-detects in this well, the results are qualified as J-N2, estimated due to potential false positive.</u>

Summary:

Reviewed by: Larry D. Singh
Subject Matter Expert

Date: 3/28/2019

Reviewed by: _____
Project Manager

Date: _____

EM-SOP-211

Rev. e0, 12/17

BROOKHAVEN NATIONAL LABORATORY

Data Usability Summary Report

Project:	<u>SITEWD-RAV</u>
Sampling Contractor:	<u>R&C Formation LTD</u>
Analytical Laboratory:	<u>Test America-Missouri</u>
Analytical Method and/or Parameter:	<u>901.1, 905, 906.0</u>
Sample Delivery Group:	<u>40331</u>
Chain-of-Custody (COC) No. / Sample IDs:	<u>40331</u>
Date Sampled:	<u>9/13/2018</u>
Parameter(s):	<u>Radionuclides</u>

<i>SAMPLE ID</i>	<i>DATA USABILITY QUALIFIERS</i>	<i>EXPLANATION FOR QUALIFIERS</i>
<u>40331-003</u>	<u>N4</u>	<u>Cobalt-60 flagged N4, due to a possible false positive based on local knowledge of radioactive sources and/or environmental levels.</u>

Summary:

Reviewed by: Larry D. Singh Date: 3/26/2019
 Subject Matter Expert

Reviewed by: _____ Date: _____
 Project Manager

BROOKHAVEN NATIONAL LABORATORY

Data Usability Summary Report

Project:	<u>SITEWD-RAV</u>
Sampling Contractor:	<u>R&C Formation LTD</u>
Analytical Laboratory:	<u>Test America-Missouri</u>
Analytical Method and/or Parameter:	<u>901.1, 905, 906.0</u>
Sample Delivery Group:	<u>40332</u>
Chain-of-Custody (COC) No. / Sample IDs:	<u>40332</u>
Date Sampled:	<u>10/2/2018</u>
Parameter(s):	<u>Europium-154</u>

<i>SAMPLE ID</i>	<i>DATA USABILITY QUALIFIERS</i>	<i>EXPLANATION FOR QUALIFIERS</i>
<u>40332-002</u>	<u>J-N2</u>	<u>Potential false positive. Value reported is less than the MDA and the uncertainty. Data has been flagged J-N2</u>

Summary:

Reviewed by: Larry D. Singh
Subject Matter Expert

Date: 3/26/2019

Reviewed by: _____
Project Manager

Date: _____

BROOKHAVEN NATIONAL LABORATORY

Data Usability Summary Report

Project:	<u>SiteWD-OU3-PFC-GW</u>
Sampling Contractor:	<u>EPD Field Sampling Team</u>
Analytical Laboratory:	<u>GEL Laboratories, LLC</u>
Analytical Method and/or Parameter:	<u>537.0</u>
Sample Delivery Group:	<u>40757</u>
Chain-of-Custody (COC) No. / Sample IDs:	<u>40757</u>
Date Sampled:	<u>2/13/2019</u>
Parameter(s):	<u>PFCs</u>

<i>SAMPLE ID</i>	<i>DATA USABILITY QUALIFIERS</i>	<i>EXPLANATION FOR QUALIFIERS</i>
<u>40757-004</u> <u>40757-005</u> <u>40757-006</u>	<u>Switched samples</u>	<u>After reviewing the attached data report, it looks like the results for sample -004 and -005 were switched. Sample -005 was the blind duplicate for Well 126-18(sample -006). However, the reported data for -004 and -006 closely matched. Therefore, it has been determined that samples were switched either in the field or at the laboratory.</u>

Summary:

Reviewed by: Larry D. Singh
Subject Matter Expert

Date: 3/27/2019

Reviewed by: _____

Date: _____

