SCIENCE APPLICATIONS INTERNATIONAL CORPORATION Organic Data Review Checklist - Standard Validation

Project:	Harley-Davidson		Page 1 of 11	
SDG No:	180-44203-1	Analysis:	See attached	
Laboratory:	TestAmerica Pittsburgh	Method: Matrix:	See attached Water	_
data have been st	ackage has been reviewed and the ummarized. The general criteria use nination of the following:	analytical quality co	ontrol/quality assurance performance nalytical integrityof the data were	
	Case Narrative Analytical Holding Times Sample Preservation			
	Project Blanks			
Project Specific Q	A/QC or contract requirements may	take priority over v	alidation criteria in this procedure.	
Overall Remarks	No muje	e issuc	- 5	_
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Definition of Qualifi	ers: "U", not detected at the associated "UJ", not detected and associated "J", associated value estimated "R", associated value unusable or a "=", compound properly identified a	value estimated analyte identity unfo	ounded	•
Reviewed by:	Alar b Miller JA Me	JMC	Date: <u>6/10/1</u> 5	
QA Reviewed by:	CHRICE			

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I. Case Narrative	
Verify direct statements made within the Laboratory Case	Narrative (note discrepancies).
Remarks: No majur 13500	
II. Re-analysis and Secondary Dilutions	
Verify that re-analysis and secondary dilutions were perfeappropriate results to report.	rmed and reported as necessary. Determine
Remarks:	
Tromano.	

III. Holding Times

VOC - Waters - unpreserved: aromatic within 7 days, non-aromatic within 14 days of sample collection

VOC - Waters - preserved: aromatic and non-aromatic within 14 days of sample collection

VOC - Soils - preserve or analyze within 48 hours of sample collection; analyze within 14 days of preservation

SVOC, Pest., PCB - Waters - extract within 7 days of sample collection, analyze within 40 days of extraction SVOC, Pest., PCB - Soils - extract within 14 days of sample collection, analyze within 40 days of extraction

Deviations:

_	VOC			SVOC			Pest/PCB	
Sample #	Date	Date	Date	Date	Date	Date	Date	Date
	Collected	Analyzed	Collected	Extracted	Analyzed	Collected	Extracted	Analyzed
						-		

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 If notding times are exceeded, 	all resul	is are	qualified	as	estimated	(J/UJ	1
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2. If holding times are exceeded by more than 2X, reviewer may qualify non-detected results as unusable (R)

Remarks:	No {55465	

III. Holding Times

Metals - Waters - preserved to pH<2, 180 days from sample collection

Metals - Soils - 180 days from sample collection

Mercury - Waters - preserved to pH<2, 28 days from sample collection

Mercury - Soils - 28 days from sample collection

Deviations:

	Metals				Mercury		
Date Collected	Date Analyzed	Days >HT	pH Check	Date Collected	Date Analyzed	Days >HT	pH Check
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		<u> </u>					
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			Date Date Days	Date Date Days pH	Date Collected Analyzed >HT Check Collected	Date Date Days pH Date Date Collected Analyzed >HT Check Collected Analyzed	Date Date Days pH Date Days Collected Analyzed >HT Check Collected Analyzed >HT

Actions:

- 1. If preserved samples exceed holding time, qualifty all associated results as estimated (J/UJ).
- 2. If unpreserved samples exceed holding time, qualify all associated results as unusable (R).
- 3. If holding times are exceeded by more than 2X, reviewer may qualify non-detected results as unusable (R)
- 4. If water samples are not acidified, use professional judgement. Minimally, qualify data as estimated (J) and non-detects unusable (R).
- 5. If soil samples exceed holding time, use professional judgement to qualify data.

Remarks:	No issues

III. Holding Times

Sample should be preserved and analyzed according to the appropriate analytical method In general the following preservations and holding times for waters can be applied:

Sulfate, 4 degress C, 28 days

Sulfide, 4 degrees C, pH ≥9 with zinc acetate/sodium hydroxide, 7 days

Bromide/Chloride/Fluoride, no preservative required, 28 days

Nitrate/Nitrite or Ammonia, 4 degrees C, pH ≤ 2 with sulfuric acid, 28 days

Nitrate or Nitrite, 4 degrees C, 48 hours

Alkalinity, 4 degrees C, 14 days

TDS/TSS, 4degrees C, 7 days

Phosphate (total), 4 degrees C, pH < 2 with sulfuric acid, 28 days

Hexavalent Chromium, Cool 4 degress C, water- 24 hours, soil - 30 days

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Sample #	Analyte	Date	Date	Date	Notes:
		Collected	Extracted	Analyzed	
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Actions:

- 1. If holding times are exceeded, all results are qualified as estimated (J/UJ)
- 2. If holding times are exceeded by more than 2X, reviewer may qualify non-detected results as unusable (R)
- 3. If samples were not properly preserved, use professional judgement to qualify the data

Remarks:	No issues	_
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VI. Blanks		e L	P	age 6 of 11
to analyze VO	Cs and CVOCs Yes	No	I for each 12 hour period on each	
Laboratory I	Wethod Blanks:			
Date:	Lab ID #	Fraction	Compound	Conc. (ppb)
Associated	Project Blanks (e.g.,	equipment rinsa	ates, trip blanks, etc.)	
Associated Date	Project Blanks (e.g.,	Fraction	Compound	Conc. (ppb)
				Conc. (ppb)
		Fraction	Compound	Conc. (ppb)
			Compound	Conc. (ppb)
Date		Fraction	Compound	Conc. (ppb)

VI. Blanks (continued)

Calculate action levels based on 10X the highest blank concentration of "common laboratory solvents", VOCs (methylene chloride, acetone, toluene, 2-butanone, cyclohexane) or SVOCs (phthalates), and 5X the highest blank concentration for all other VOC, SVOC, Pesticides, and PCB compounds. Sample weights, volumes, and dilution factors must be taken into account when applying the 5X and 10X criteria. This allows the total amount of contaminant present to be considered.

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<u> </u>	Maximum Conc.	Action Level (ppb)	Samples Affected
Compound	Detected, (ppb)		
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Actions:

- 1. If compound results exceed the action levels, the data are not qualified
- 2. If compound results are below the required reporting level, report results as non-detect (U) at the reporting level
- 3. If the compound is detected above the reporting level, but below the action level, qualify as not-detected (U)
- 4. If gross contamination exists in blanks (i.e.,, saturated peaks by GC/ MS), all affected compounds in the associated samles should be qualifed as unusable (R) due to interference.
- 5. If blanks were not analyzed per matrix per concentration level for each 12 hour period on each GC/MS system used to analyze VOCs and SVOCs use professional judgement to qualifty data. Data may be rejected (R).

Remarks:	No dodactous				

Hold Time Summary

Sample Number	Method	Date Collected	Analysis Date	Date Extracted	Days to Analysis
180-44203-1	MCAWW 300.0	5/18/2015	5/19/2015		. 1
180-44203-2	MCAWW 300.0	5/18/2015	5/19/2015		1
180-44203-3	MCAWW 300.0	5/18/2015	5/19/2015		1
180-44203-4	MCAWW 300.0	5/18/2015	5/19/2015		1
180-44203-5	MCAWW 300.0	5/18/2015	5/19/2015	ì	1
180-44203-7	MCAWW 300.0	5/18/2015	5/19/2015		1
180-44203-8	MCAWW 300.0	5/18/2015	5/19/2015		1
180-44203-1	SM SM 2320B	5/18/2015	5/21/2015		3
180-44203-2	SM SM 2320B	5/18/2015	5/21/2015		3
180-44203-3	SM SM 2320B	5/18/2015	5/21/2015		3
180-44203-4	SM SM 2320B	5/18/2015	5/21/2015		3
180-44203-5	SM SM 2320B	5/18/2015	5/21/2015		3
180-44203-7	SM SM 2320B	5/18/2015	5/21/2015		3
180-44203-8	SM SM 2320B	5/18/2015	5/21/2015		3
180-44203-1	SW846 6020A	5/18/2015	5/27/2015	5/20/2015	9
180-44203-2	SW846 6020A	5/18/2015	5/27/2015	5/20/2015	9
180-44203-3	SW846 6020A	5/18/2015	5/27/2015	5/20/2015	9
180-44203-4	SW846 6020A	5/18/2015	5/27/2015	5/20/2015	9
180-44203-5	SW846 6020A	5/18/2015	5/27/2015	5/20/2015	9
180-44203-7	SW846 6020A	5/18/2015	5/27/2015	5/20/2015	9
180-44203-8	SW846 6020A	5/18/2015	5/27/2015	5/20/2015	9
180-44203-1	SW846 8260C	5/18/2015	5/26/2015		8
180-44203-2	SW846 8260C	5/18/2015	5/24/2015		6
180-44203-3	SW846 8260C	5/18/2015	5/26/2015		8
180-44203-4	SW846 8260C	5/18/2015	5/27/2015		9
180-44203-5	SW846 8260C	5/18/2015	5/26/2015		8
180-44203-6	SW846 8260C	5/18/2015	5/26/2015		8
180-44203-7	SW846 8260C	5/18/2015	5/26/2015		8
180-44203-8	SW846 8260C	5/18/2015	5/26/2015	i	8

Wednesday, June 10, 2015

Trip Blank Detections

Sample ID

Sample

Analyte

Result Method Units

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