SCIENCE APPLICATIONS INTERNATIONAL CORPORATION Organic Data Review Checklist - Standard Validation

Project:	Harley-Davidson		Page 1 of 11	
SDG No: Analysis:			See attached	
		Method:	See attached	
Laboratory:	TestAmerica Pittsburgh	Matrix:	Water	
data have been s	package has been reviewed and the summarized. The general criteria us mination of the following:	e analytical quality c sed to assess the ar	ontrol/quality assurand nalytical integrityof the	ce performance data were
	Case Narrative Analytical Holding Times Sample Preservation			
	Project Blanks			
Project Specific G	QA/QC or contract requirements ma	y take priority over	validation criteria in thi	s procedure.
Overall Remark	s: le ma	255.	r7	
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Definition of Quali	ifiers: "U", not detected at the associate	nd lavel		
	"UJ", not detected and associated "J", associated value estimated "R", associated value unusable o	d value estimated r analyte identity un	ıfounded	
	"=", compound properly identified	and value positive		
Reviewed by:	Alance. Miller St. CU	y	Date:	6/10/15
QA Reviewed by	y: CARrie		Date:	6-23-15

Note its particle (note discrepancies). Remarks: Not 135005 The analysis and Secondary Dilutions Verify that rengalysis and secondary dilutions were performed and reported as necessary. Determine appropriate results to report. Remarks:			1 agc 2 01 11
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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
	l							

-	4.1		
-	Ω±i		30"
79	No. L.	1.71	120 -

1.	lf	holding	times ar	e exceeded.	all	results are	e qualified	as	estimated	(.]/	IJ,

	2	2. If holding tir	nes are exceeded b	by more than 2X.	reviewer may	qualify non-detected	results as	unusable (R)
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Remarks:	No issues					
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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		
Sample #	Date	Date	Days	pН	Date	Date	Days	pН
		Analyzed	>HT	Check	Collected	Analyzed	>HT	Check
				1				
								_
								1
		-						
		-						
		-						

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:	100 135445		
		 	

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

Deviations:

Sample #	Analyte	Date	Date	Date	Notes:
		Collected	Extracted	Analyzed	

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 issuas	
		-

VI. Blanks		ļ	Page	6 of 11
to analyze VOCs	and SVOCs Yes	No	el for each 12 hour period on each GC/ List documented contamination below:	
Laboratory Me	thod Blanks:			
Date:	Lab ID#	Fraction	Compound	Conc. (ppb)
				-
_/				
Z -				
Associated Pr	oject Blanks (e.g.,	equipment rins	sates, trip blanks, etc.)	
Date	Lab ID #	Fraction	Compound	Conc. (ppb)
Remarks:	v° o	· project	blunks defendad	
		1		

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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	Maximum Conc.	Action Level (ppb)	Samples Affected
Compound	Detected, (ppb)		
			
		 	
			
		1	
		 	

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 qualify data. Data may be rejected (R).

Remarks:	No project blacks	
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Hold Time Summary

Sample Number	Method	Date Collected	Analysis Date	Date Extracted	Days to Analysis
180-44248-1	MCAWW 300.0	5/19/2015	5/20/2015		1
180-44248-10	MCAWW 300.0	5/19/2015	5/20/2015		1
180-44248-2	MCAWW 300.0	5/19/2015	5/20/2015		1
180-44248-3	MCAWW 300.0	5/19/2015	5/20/2015		1
180-44248-4	MCAWW 300.0	5/19/2015	5/20/2015		1
180-44248-5	MCAWW 300.0	5/19/2015	5/20/2015		1
180-44248-6	MCAWW 300.0	5/19/2015	5/20/2015		1
180-44248-7	MCAWW 300.0	5/19/2015	5/20/2015		1
180-44248-8	MCAWW 300.0	5/19/2015	5/20/2015		1
180-44248-9	MCAWW 300.0	5/19/2015	5/20/2015		1
180-44248-1	SM SM 2320B	5/19/2015	5/27/2015		8
180-44248-10	SM SM 2320B	5/19/2015	5/27/2015		8
180-44248-2	SM SM 2320B	5/19/2015	5/27/2015		8
180-44248-3	SM SM 2320B	5/19/2015	5/27/2015		8
180-44248-4	SM SM 2320B	5/19/2015	5/27/2015		8
180-44248-5	SM SM 2320B	5/19/2015	5/27/2015		8
180-44248-6	SM SM 2320B	5/19/2015	5/27/2015		8
180-44248-7	SM SM 2320B	5/19/2015	5/27/2015		8
180-44248-8	SM SM 2320B	5/19/2015	5/27/2015		8
180-44248-9	SM SM 2320B	5/19/2015	5/27/2015		8
180-44248-1	SW846 6020A	5/19/2015	6/2/2015	5/20/2015	14
180-44248-10	SW846 6020A	5/19/2015	6/2/2015	5/20/2015	14
180-44248-2	SW846 6020A	5/19/2015	6/2/2015	5/20/2015	14
180-44248-3	SW846 6020A	5/19/2015	6/2/2015	5/20/2015	14
180-44248-4	SW846 6020A	5/19/2015	6/2/2015	5/20/2015	14
180-44248-5	SW846 6020A	5/19/2015	6/2/2015	5/20/2015	14
180-44248-6	SW846 6020A	5/19/2015	6/2/2015	5/20/2015	14
180-44248-7	SW846 6020A	5/19/2015	6/2/2015	5/20/2015	14
180-44248-8	SW846 6020A	5/19/2015	6/2/2015	5/20/2015	14
180-44248-9	SW846 6020A	5/19/2015	6/2/2015	5/20/2015	14
180-44248-1	SW846 8260C	5/19/2015	5/26/2015		7
180-44248-10	SW846 8260C	5/19/2015	5/28/2015		9
180-44248-11	SW846 8260C	5/19/2015	5/27/2015		8
180-44248-2	SW846 8260C	5/19/2015	5/27/2015		8
180-44248-3	SW846 8260C	5/19/2015	5/27/2015		8
180-44248-4	SW846 8260C	5/19/2015	5/28/2015		9
180-44248-5	SW846 8260C	5/19/2015	5/27/2015		8
180-44248-6	SW846 8260C	5/19/2015	5/27/2015		8
180-44248-6	SW846 8260C	5/19/2015	5/28/2015		9
180-44248-7	SW846 8260C	5/19/2015	5/27/2015		8
180-44248-7	SW846 8260C	5/19/2015	5/28/2015		9

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Sample Number	Method	Date Collected	Analysis Date	Date Extracted	Days to Analysis
180-44248-8	SW846 8260C	5/19/2015	5/27/2015		8
180-44248-8	SW846 8260C	5/19/2015	5/28/2015		9
180-44248-9	SW846 8260C	5/19/2015	5/28/2015		9
180-44248-9	SW846 8260C	5/19/2015	5/30/2015		11

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Trip Blank Detections

Sample ID

Sample

Analyte

Result

Method

Units

Qual

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