SCIENCE APPLICATIONS INTERNATIONAL CORPORATION Organic Data Review Checklist - Standard Validation

Project:	Harley-Davidson		Page 1 of 11
SDG No:	180-47923-1	Analysis:	See Attached
		Method:	See Attached
Laboratory:	TestAmerica Pittsburgh	Matrix:	Water
data have been s	package has been reviewed and the ummarized. The general criteria usomination of the following:	analytical quality co	ontrol/quality assurance performance alytical integrityof the data were
	Case Narrative Analytical Holding Times Sample Preservation		
	Project Blanks		
Project Specific C	A/QC or contract requirements may	take priority over v	alidation criteria in this procedure.
Overall Remark	s: Gunlitou 135	14 S	
77			
Definition of Quali	fiers: "U", not detected at the associated "UJ", not detected and associated "J", associated value estimated "R", associated value unusable or "=", compound properly identified a	value estimated analyte identity unfo	ounded
Reviewed by:	Cho M/C Alan	G. Millar JI.	_ Date: <u>//////</u>
QA Reviewed by	1. CARRILL		Date: 1-25-(6

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l. Case Narrative			
/erify direct statements n	nade within the Laboratory Cas	e Narrative (note discrepancies).	
Remarks:	No issuer		141

		I	
II. Re-analysis and S	econdary Dilutions		
Verify that re-analysis an appropriate results to rep	d secondary dilutions were per	fermed and reported as necessa	ry. Determine
	iort.		
Remarks:			
2			
		 	

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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Actions:

 If holding times are exceeded, all results are qualified as esti 	mated	I.I/U.I
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2. If holding times are exceeded by more than 2X, reviewer may qualify non-detected results as unusable (R)

Remarks:	<i>No</i>	issuas	
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VI. Blanks			Page	e 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	ethod Blanks:			
Date:	Lab ID#	Fraction	Compound	Conc. (ppb)
7				
Associated P	roiect Blanks (e.g	equipment rins	sates, trip blanks, etc.)	
Date	Lab ID#	Fraction	Compound	Conc. (ppb)
	Lab ID#			Conc. (ppb)
	Lab ID #			Conc. (ppb)
	Lab ID #			Conc. (ppb)
	Lab ID #			Conc. (ppb)
	Lab ID #			Conc. (ppb)
	Lab ID #			Conc. (ppb)
	Lab ID #			Conc. (ppb)
Date	Lab ID #		Compound	Conc. (ppb)
Date	Lab ID #		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.

Deviations:

_	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 qualify data. Data may be rejected (R).

Remarks:	 None	 	
	 	 -,	

Höld Time Summary

Sample Num	ber Sample Name	Method	Date Collected	Analysis Date	Date Extracted	Days to Analysis
180-47923-1	HD-MW-136A-270/348-0	SW846 8260 C	9/17/2015	9/25/2015		8
180-47923-1	HD-MW-136A-270/348-0	SW846 8260 C	9/17/2015	9/28/2015		11.
180-47923-2	HD-RW-5-0/1-0	SW846 8260 C	9/17/2015	9/25/2015		8
180-47923-3	HD-QC3-0/1-2	SW846 8260 C	9/17/2015	9/25/2015		8
180-47923-4	HD-CW-18-0/1-0	SW846 8260 C	9/17/2015	9/25/2015		8

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Blank Detections

SDG

Sample ID Sample Analyte Result Method Units Qual

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Sample ID	Sample	Analyte	Result	5x	10x	Method	Units	Qual
180-47923-1	HD-MW-136A- 270/348-0	1,1-Dichloroethane	15	75	150	SW846 8260C	ug/L	J
180-47923-4	HD-CW-18-0/1-0	1,1-Dichloroethene	0.62	3.1	6.2	SW846 8260C	ug/L	J
180-47923-1	HD-MW-136A- 270/348-0	1,1-Dichloroethene	32	160	320	SW846 8260C	ug/L	J
180-47923-1	HD-MW-136A- 270/348-0	2-Hexanone				SW846 8260C	ug/L	<mark>^c</mark>
180-47923-1	HD-MW-136A- 270/348-0	cis-1,2-Dichloroethene	17000	85000	170000	SW846 8260C	ug/L	Е
180-47923-4	HD-CW-18-0/1-0	cis-1,2-Dichloroethene	19	95	190	SW846 8260C	ug/L	F1
180-47923-4	HD-CW-18-0/1-0	Dibromochloromethan e				SW846 8260C	ug/L	^c
180-47923-1	HD-MW-136A- 270/348-0	Dibromochloromethan e				SW846 8260C	ug/L	<mark>^c</mark>
180-47923-3	HD-QC3-0/1-2	Dibromochloromethan e				SW846 8260C	ug/L	^c
180-47923-2	HD-RW-5-0/1-0	Dibromochloromethan e				SW846 8260C	ug/L	<u>^c</u>
180-47923-4	HD-CW-18-0/1-0	Tetrachloroethene	0.34	1.7	3.4	SW846 8260C	ug/L	J
180-47923-2	HD-RW-5-0/1-0	Tetrachloroethene	0.17	0.85	1.7	SW846 8260C	ug/L	J
180-47923-1	HD-MW-136A- 270/348-0	Trichloroethen e	57	285	570	SW846 8260C	ug/L	J
180-47923-2	HD-RW-5-0/1-0	Trichloroethene	0.82	4.1	8.2	SW846 8260C	ug/L	J