FR den 12/2/15

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION Organic Data Review Checklist - Standard Validation

Project:	Harley-Davidson			Page 1 of 11
SDG No:	180-47984-1	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 use mination of the following: Case Narrative Analytical Holding Times	analytical quality c ed to assess the ar	ontrol/quality assurand	ce performance data were
	Sample Preservation			
	Project Blanks			
Project Specific C	QA/QC or contract requirements may	take priority over	validation criteria in thi	s procedure.
Overall Remark	s: Ruditar Is	5 y a 5.		
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	·			
1.				
		31		
				
		-		
Definition of Qual	ifiers: "U", not detected at the associated "UJ", not detected and associated "J", associated value estimated "R", associated value unusable or	value estimated	founded	
Reviewed by:	"=", compound properly identified a		_	11/9/15
QA Reviewed by	y: CATTULE		Date:	1-25-16.

		Page 2 of 11
I. Case Narrati	ve	
	_	
erify direct state	ements made within the Laboratory Cas	se Narrative (note discrepancies).
	4.0	
Remarks:	No major 155465	
21	v	
-		
I. Re-analysis	and Secondary Dilutions	
Verify that re-ena	alysis and secondary dilutions were per	rformed and reported as necessary. Determine
appropriate resu	its to report.	
Remarks:		
		X
-		

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					Pest/PCB	CB	
Sample #	Date	Date	Date	Date	Date	Date	Date	Date
	Collected	Analyzed	Collected	Extracted	Analyzed	Collected	Extracted	Analyzed
·								
					_			
-						-		
		-						
					-			
	_							

Actions:

1. It holding times are	exceeded, all re	esults are qualified	as estimated (J/UJ
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If holding times are exceeded l	by more than 2X	, reviewer may qual	lify non-detected	results as unusable	(R)
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Remarks:	 		NO 15540	3	 .	
	 		<u>. </u>	· · · · · · · · · · · · · · · · · · ·	 	
	_			-		

VI. Blanks		-	Pa	ge 6 of 11
All blanks wer	Cs and SVOCs Yes	No	el for each 12 hour period on each G List documented contamination belo	
Laboratory	Method Blanks:			
Date:	Lab ID#	Fraction	Compound	Conc. (ppb)
Associated Date	Project Blanks (e.g., Lab ID #	equipment rins Fraction	compound	Conc. (ppb)
Remarks:	,		No issuus	
			144	

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.

Maximum Cana	Action Level (nnh)	Canada Affect
	Action Level (ppb)	Samples Affected
Detected, (ppb)		
		-
	 	
	Maximum Conc. Detected, (ppb)	

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:	 N316	

Hold Time Summary

Sample Num	ber Sample Name	Method	Date Collected	Analysis Date	Date Extracted	Days to Analysis
180-47984-1	HD-MW-3-0/1-0	SW846 8260C	9/21/2015	9/28/2015		7
180-47984-2	HD-MW-28-0/1-0	SW846 8260C	9/21/2015	9/30/2015		9
180-47984-3	HD-MW-32D-0/1-0	SW846 8260C	9/21/2015	9/29/2015		8
180-47984-3	HD-MW-32D-0/1-0	SW846 8260C	9/21/2015	9/30/2015		9
180-47984-4	HD-MW-32S-0/1-0	SW846 8260C	9/21/2015	9/29/2015		8
180-47984-5	HD-QC2-0/1-1	SW846 8260 C	9/21/2015	9/29/2015		8
180-47984-6	HD-QC5-0/1-2	SW846 8260C	9/21/2015	9/28/2015		7

Thursday, November 05, 2015 Page 1 of 1

Blank Detections

Sample ID Sample Analyte Result Method Units Qual

Thursday, November 05, 2015 Page 1 of 1



Sample ID	Sample	Analyte	Result	5x	10x	Method	Units	Qual
180-47984-3	HD-MW-32D-0/1-0	1,1,1-Trichloroethane	4	20	40	SW846 8260C	ug/L	J
180-47984-3	HD-MW-32D-0/1-0	1,1-Dichloroethene	41	205	410	SW846 8260C	ug/L	1
180-47984-1	HD-MW-3-0/1-0	2-Hexanone				SW846 8260C	ug/L	^c
180-47984-6	HD-QC5-0/1-2	2-Hexanone				SW846 8260C	ug/L	^c
180-47984-3	HD-MW-32D-0/1-0	Bromomethane				SW846 8260C	ug/L	^c
180-47984-4	HD-MW-32S-0/1-0	Bromomethane				SW846 8260C	ug/L	^c
180-47984-5	HD-QC2-0/1-1	Bromomethane				SW846 8260C	ug/L	^c
180-47984-2	HD-MW-28-0/1-0	cis-1,2-Dichloroethene	0.76	3.8	7.6	SW846 8260C	ug/L	ı
180-47984-1	HD-MW-3-0/1-0	cis-1,2-Dichloroethene	0.63	3.15	6.3	SW846 8260C	ug/L	J
180-47984-1	HD-MW-3-0/1-0	Methyl tert-butyl ether	0.19	0.95	1.9	SW846 8260C	ug/L	J
180-47984-2	HD-MW-28-0/1-0	Tetrachloroethene	0.41	2.05	4.1	SW846 8260C	ug/L	J
180-47984-1	HD-MW-3-0/1-0	Tetrachloroethene	0.39	1.95	3.9	SW846 8260C	ug/L	J
180-47984-3	HD-MW-32D-0/1-0	trans-1,2- Dichloroethene	2	10	20	SW846 8260C	ug/L	J
180-47984-3	HD-MW-32D-0/1-0	Trichloroethen e	720	3600	7200	SW846 8260C	ug/L	E
180-47984-3	HD-MW-32D-0/1-0	Vinyl chloride	25	125	250	SW846 8260C	ug/L	J

Thursday, November 05, 2015