Effective Date: 06/03/2021 SOP6-065 Rev. 4 Page 1 of 7

Lab Director Approval:

| Lab Director Approval: | Lab Director Approval: | Lab Director Approval: | 08/19/2021 |
| QA Manager Approval: | 08/19/2021 |

Standard Operating Procedure for Reviewing QA/QC Batch Reports

Access to this SOP shall be available within the laboratory for reference purposes; the official copy of this SOP resides on the official Georgia EPD website at https://epd.georgia.gov/about-us/epd-laboratoryoperations. Printed copies of this SOP will contain a watermark indicating the copy is an uncontrolled copy.

1 **Scope and Application**

- QA/QC Batch Reports are issued for most analyses with the completion of each batch of samples. These reports have all the pertinent information that was entered for the QC sample assigned for this analysis. A QC sample is the sample chosen for analysis of Matrix Spikes (MS) and Matrix Spike Duplicates (MSD) for a particular analysis. Each analysis may have a different QC sample depending on the analysis. Therefore each batch associated with a sample set may have a different QC sample for different analyses.
- 1.2 Each QA/QC Batch Report has all the information needed to determine the overall acceptability of the Quality Control Results. It has results for the Blank, Laboratory Control Sample (LCS), Laboratory Control Sample Duplicate (LCSD), Matrix Spike (MS), Matrix Spike Duplicate (MSD), and their respective % recoveries and Relative Percent Differences (RPD). Each Report also lists the sample IDs associated with the QC sample in the upper right corner along with the Batch Report ID number. The bottom left corner has the Labworks (LIMS) analysis code and the batch number again for reference.
- Most % Recovery and RPD results have acceptance limits that are calculated twice a year and entered in the test code data fields. These numbers are not listed in the QA/QC report, however if the result for % Recovery and/or RPD are above or below the limits, the result is in BOLD type and either a U (upper) or L (lower) letter respectively, is put by the value. Most bold-faced values will also have a comment explaining the situation and a corrective action number which was generated to explain the problem and its resolution. These "flagged" results, as they are referred to, are what is scrutinized along with any comments. Most QC results will not be flagged.

2 **Definitions**

2.1 Refer to Chapter 3 of the Georgia EPD Laboratory Quality Assurance Manual for



Effective Date: 06/03/2021 SOP6-065 Rev. 4 Page 2 of 7

Quality Control Definitions.

3 Quality Control

3.1 References to Quality Control violations are Method and/or SOP specific.

4 Procedure

- 4.1 Each Laboratory will generate QA/QC Batch Reports on a regular basis. These will be generated when an analysis of a batch of samples is complete and the data validated. Each Manager will place all completed Batch Reports in the appropriate in-box (QA/QC Reports), in the QA manager's office, to be reviewed. These will come in groups and there are about 100 test codes that may be used overall.
- 4.2 Each QA/QC Batch Report will be reviewed as time permits. But should be reviewed as soon as possible.
- 4.3 Most flagged results are for QC values slightly outside the acceptable limits. These will require no further action, if a corrective action and comment are noted. However, if there are unusual problems or a multitude of failures in any of the spikes, a closer look should be made into the problem. The Lab Director should also be notified of these types of failures.
- 4.4 Comments made for unusual problems will sometimes answer questions that are raised for unusual results. If the cause and resolution are effectively noted this is usually sufficient.
- 4.5 If there are still questions, it is time to discuss the problem with the associated manager, supervisor and/or analyst. Depending on the situation it may require pulling the raw data for review, but this is rare. The Lab Director should also be notified of these types of failures.
- 4.6 If an issue arises that is not adequately covered by comments or a corrective action, the manager should be consulted and different comment or addition to the corrective action should be made to clarify.
- 4.7 All reviewed Batch Sheets are stamped with APPROVED stamp which includes the date, then initialed and must be filed in the QA office. The most efficient way is to stack the Sheets into five groups: Inorganics, Metals, GCMS, Organics, and Crypto. Then separate each test code out alphabetically and group all of the same test codes together. This will greatly speed up the filing process.



Effective Date: 06/03/2021 SOP6-065 Rev. 4 Page 3 of 7

4.8 All QA/QC Batch Sheets six months or older can be purged from the files. Some test codes will have a considerably larger number than others. These can be purged more often but try to keep at least 3 months on file. These copies are just for QA review. Copies of all of these sheets are available electronically as well as filed with each batch in each Laboratory.

5 Calculations

Not Applicable

6 References

6.1 GA EPD Laboratory Quality Assurance Plan, online revision.

7 Attachments

7.1 Example of a GCMS QA/QC Batch Report

CONTROLE

ONLY

ON

Effective Date: 06/03/2021 SOP6-065 Rev. 4 Page 4 of 7

		6875	C	D LCS LCSD c Rec Rec		;	55.8 54.7			49.8 50.4										8.98 0.78 94.8			3 64.9 67.1												Page 1 of 4
		170385 2 AJ7 8 AJ7		LCSD Prec RPD			88. 1.			1.20										0.346			3.33												Page
		Samples in Batch #: 170385 AJ76671 AJ76672 AJ7 AJ76877 AJ76878 AJ7		LCSD Result ug/L			24.7			50.4					75.9					86.8			67.1	70.0	39.0										
		Samples AJ76671 /HW AJ76877	AJ76885	LCS Result ug/L		i L	20.00			49.8					77.0					86.5			64.9	71.5	38.2										
		LATING INC		LCA Spiked ug/L		9	8			100					100					100			100	100	100										
	ь	ECTROP		MSD Rec		,	40.4			44.1										73.6			27.9												
Ur	REPORT	OA/QC Batch Name: \$827CW-170385 Project: HW AJ76671 Sample Description: \$WAINSBORO ELECTROPLATING INC_/HW AJ76871		MSD MS Prec Rec RPD %		0.70		1		23.4 55.8										6.06 78.2			U*32.5 L*20.1												
	Ξ	Name: \$827 Project: HW cription: SWA								1																									
	TC	Batch N Pr e Descrij	:	MS Dup Result ug/L		9	‡ ;			44.1					30.6					73.6			27.9	58.9	11.0										
	QA/QC BATCH REP	Ü	:	MS Result ug/L		7 7 3	t.			55.8					15.6				i	78.2			20.1	68.7	L*7.73										
	QA/G	Sample ID: AJ76884 Location Code: HWMB Date Collected: 1/22/2018 4:27:00 PM Date Received: 1/23/2018 12:08:00 PM		MA Spiked ug/L		0	2			100					100					100			100	100	100										
		Sample ID: AJ76884 Location Code: HWMB Date Collected: 1/22/201 Date Received: 1/23/201		Method Blank ug/L	<10	70 7	v V V V	<10	<10	<10	€ ₹	0 V	ot>	<10	52.2	<10	<10	<10	² 20	, v	0 0 0 0 0 0 0	<10	<10	58.5	31.7	2 7	ot > 10	<50	<10	<10	<20	40 5	\$ 650	\$ \$	
	-	Loca Date		Result ug/L	₽ :	2 5	2 9	Q	Q	9 !	9 5	2 E	2 2	9	40.2	Q	9	Q :	2 :	9 9	2 2	Q.	Q	52.0	16.4 CIN	2 5	2 2	Q	Q	9	₽ :	9 9	2 5	2 9	
	Georgia Environmental Protection Division 5804 Peachtree Corners East Norcross, GA 30092-3403	To: Georgia Env Protection Divison Hazardous Waste Mgmt Branch 205 Butler St SE Suite 1154E Atlanta, GA 30334		Analysis/Analyte \$827CW	1,1'-Biphenyl	1,2,4,5-1etracniorobenzene 1,2,4,5-1etrachiorobenzene	1,2-Dichlorobenzene	1,2-Diphenylhydrazine	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dioxane 1-Chloronanhthalene	1-Naphthylamine	2,3,4,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Tribromophenol(Surrogate QC Std.)	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Chloronaphthalene	2-Chlorophenol	2-Fluorobiphenyl(Surrogate QC Std.)	Z-Fluorophenol(Surrogate QC Std.)	2-Methylphenol	2-Naphthylamine	2-Nitroaniline	2-Nitrophenol	2-Picoline	3,3'-Dichlorobenzidine	3-Methylcholanthrene	3-Nitroaniline 4 6-Dinitro-2-Methylphenol	4-Aminobiphenyl	\$827CW-170385

Effective Date: 06/03/2021 SOP6-065 Rev. 4 Page 5 of 7

						Ur							
Georgia Environmental Protection Division 5804 Peachtree Comers East Norcross, GA 30092-3403	vision		QA/	QC B/	ATCH	QA/QC BATCH REPORT	ZT.						
Analysis/Analyte \$827CW	Result ug/L	Method Blank ug/L	MA Spiked ug/L	MS Result ug/L	MS Dup Result ug/L	MSD MS Prec Rec RPD %	MSD Rec	LCA Spiked uq/L	LCS Result	LCSD Result	LCSD Prec	LCS Rec	LCSD Rec %
4-Bromophenyl-phenylether	2 2	70 %	S	, ,	0 0	1	o c	9 6	0 0) [1	
4-Chloroaniline	2 2	² 20	2	42.0	0.20	0.25	0.20	9	6.0	4.77	78.1) (S)	4.77
4-Chlorophenyl-Phenylether	8 5	410											
4-Methylphenol 4-Nitroaniline	2 2	<10 <20											
4-Nitrophenol	2	<50	100	10.5	9.65	8.44 10.5	L*9.65	100	34.4	37.2	7.82	27.3	37.2
7,12-Dimethylbenz(a)anthracen aa-Dimethyl-Phenethylamine	9 9	₽ ₽											
Acenaphthene	Q.	<10	100	69.4	62.0	11.3 69.4	62.0	100	76.4	78.2	2.33	76.5	78.2
Acenaphthylene	2 5	40 40					1						
Addrin	2 2	0 V 10 V											
Alpha-BHC	S	<10											
Aniline	2 5	70 70											
Atrazine	2 2	0 0 0 0 0 0											
Benzaldehyde	Q	<10											
Benzidine	Q :	<10											
Benzolajanthracene Renzolajavrene	9 5	0 Y											
Benzo[b]fluoranthene	<u> </u>	o 70 10											
Benzo[g,h,i]perylene	Q	<10				(
Benzo[k]fluoranthene Benzoic Acid	8	× × × × × × × × × × × × × × × × × × ×											
Benzyl Alcohol	2 2	² 20				7							
Beta-BHC	N	<10											
Bis(2-Chloroethoxy)methane	2 2	70 70											
Bis(2-Chloroisopropyl)ether	2 2	2, 0,					ı						
Bis(2-Ethylhexyl)phthalate	ND	<10											
Butylbenzylphthalate	Q S	⁴ 40											
Captolactam	2 2	0. 0.											
Chrysene	2	000											
Delta-BHC	N	<10											
Dibenz(a,j)acridine	ND	<10											
Dibenz[a,h]anthracene	2 5	² 40				7							
Diberizorurari Dieldrin	2 2	0 \$											
				2									
\$827CW-170385											Page 2 of 4	of 4	
						K							

Effective Date: 06/03/2021 SOP6-065 Rev. 4 Page 6 of 7

| | | |

 | | | | | | | | |
 | | | | | | | | |
 | | | | | | |
 | | | |
 |

 | |

 | |
 | | Pa | ge (| 6 o | f 7
 | | | | |
|---|--|--
--
--
--
--
--
---|--|--|--
---|--|--|--|---|---------------|---|--
--|--|--|--|---|---
---|--|--|--
---|--
--
--
---|---
--
--
--	---	--	---	--
---	---			
	LCSD Rec %			

 | | | | | | | | |
 | | | | | | | | |
 | | | | | | |
 | | 78.0 | |
 |

 | |

 | | 70.4
 | | | | |
 | | | | |
| | LCS
Rec | |

 | | | | | | | | |
 | | | | | | | | |
 | | | | | | |
 | | 73.6 | |
 |

 | |

 | | 68.2
 | | | of 4 | |
 | | | | |
| | LCSD
Prec
RPD | |

 | | | | | | | | |
 | | | | | | | | |
 | | | | | | |
 | | 5.80 | |
 |

 | |

 | | 3.03
 | | | Page 3 | |
 | | | | |
| | LCSD
Result
ug/L | |

 | | |
 | | | | | | | | |
 | | | | | | | 71.3
 | | 78.0 | |
 |

 | |

 | | 70.4
 | | | | |
 | | | | |
| | LCS
Result
ug/L | |

 | | |
 | | | | | | | | |
 | | | | | | | 70.7
 | | 73.6 | |
 |

 | |

 | | 68.3
 | | | | |
 | | | | |
| | LCA
Spiked
ug/L | |

 | | |
 | | | | | | | | |
 | | | | | | | 100
 | | 100 | |
 |

 | |

 | | 100
 | | | | |
 | | | | |
| | MSD
Rec | |

 | | | | | | | | |
 | | | | | | | | |
 | | | | | | |
 | | 55.3 | |
 |

 | |

 | 1 1 | 30.2
 | | | | |
 | | | | |
| EPOR | NS Rec | |

 | | | | | | | | |
 | | | f | | | | | |
 | | | | | | |
 | | 4.79 67.4 | |
 |

 | |

 | |
 | | | | | r
 | 7 | | | / |
| 4 | Pre PR | |

 | | | ı
 | ı | | | | ı | | | |
 | | | | | | |
 | | 19 | |
 |

 | |

 | | 22
 | | | 1 | | r
 | | , | y | / |
| ATC | MS Dup
Result
ug/L | |

 | | |
 | | | | | | | | |
 | | | | | | | 53.5
 | | 55.3 | |
 |

 | |

 | | 30.2
 | | | | |
 | | | | |
| QC B | MS
Result
ug/L | |

 | | |
 | | | | | | | | |
 | | | | | | | 92.6
 | | 67.4 | |
 |

 | |

 | | 23.7
 | | | | |
 | | | | |
| QA | MA
Spiked
ug/L | |

 | | |
 | | | | | | | | |
 | | | | | | | 100
 | | 100 | |
 |

 | |

 | | 100
 | | | | |
 | | | | |
| | Method
Blank
ug/L | 010 | 01.5

 | × 10 | <10
67, | Q Q
 | <25 | 2 0 7 | 000 | <10 | <10 | 410 | 01.
20. | 4 5 | <10
 | <10 | 4 40 | 7 70 | × 10
× 10 | <10 | <10 | 61.2
 | ×10
×10 | <10 | 70 % | ×20
×10
 | <10

 | <10 | 70 7

 | 000 | \$0
\$20
 | <20 | <10 | | |
 | | | | |
| uo | Result
ug/L | S 5 | 2 2

 | 2 | 8 | 2 2
 | Q. | 9 9 | 2 2 | 2 | Q | 9 9 | 2 9 | 2
2
2 | Q
 | 2 : | 2 9 | 9 9 | 2 2 | 2 | R | 54.9
GIA
 | 2 2 | Q | 9 9 | 2 2
 | ND

 | 9 ! | 2 5

 | 2 2 | 2
 | N | ND | | |
 | | | | |
| Georgia Environmental Protection Divisi
5804 Peachtree Corners East
Norcross, GA 30092-3403 | Analysis/Analyte
\$827CW | Diethylphthalate | Dimetriyipritralate
Di-n-Butxiphthalate

 | Di-n-octylphthalate | Diphenylamine | Endosulfan 2
 | Endosulfan Sulfate | Endrin
Endrin Aldobyda | Ethylmethanesulfonate | Fluoranthene | Fluorene | Gamma-BHC | neptachlor
Hentachlor Enoxide | Hexachlorobenzene | Hexachlorobutadiene
 | Hexachlorocyclopentadiene | Hexachloroethane | Indeno[1,2,3-cd]pyrene
Isonhorone | Sopriorie
Methylmethanesulfonate | Naphthalene | Nitrobenzene |
Nitrobenzene-d5(Surrogate QC Std.) | N-Nitroso-di-n-butylamine | N-Nitroso-di-n-propylamine | N-Nitrosodiphenylamine | p.p.'-DDD
 | p,p'-DDE

 | TOC-'q,q | p-Dimethylaminoazobenzene
Dentachlorokenzene

 | Pentachloronitrobenzene | Pentachlorophenol
 | Phenacetin | Phenanthrene | \$827CW-170385 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | |
| | Georgia Environmental Protection Division QA/QC BATCH REPORT Norcross, GA 30092-3403 | QA/QC BATCH REPORT Method MA MS Dup MSD MS MSD LCA LCS LCSD LCSD LCS Blank Spiked Result Result Result Prec Rec Spiked Result Prec Rec Gug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L | Method MA MS Dup WSD MS Dup WSD <td>Method MA MS Dup MSD MS MSD LCA LCS LCSD LCSD LCSD LCSD LCSD LCSD LCSD</td> <td>Method MA MS Dup MSD MS MSD MS MSD MSD MS MSD MSD MSD MS</td> <td>Method MA MS Dup MSD MS LCA LCS LCSD LCSD LCSUt Blank Spiked Result Resu</td> <td>Method MA/QC BATCH REPORT Result Method MA MS Dup MSD MSD LCA LCS LCSD L</td> <td> Method Ma Ms Ms Ms Ms Ms Ms Ms</td> <td>Method MA MS Dup MSD MS Dup MSD LCA LCS LCSD LCSD LCSD LCSD LCSD LCSD LCSD</td> <td> Method MA MS Dup MSD MSD </td> <td>CAL/QC BATCH REPORT Result Method MA MS but liked MSD but liked <</td> <td> Macthood MA</td> <td>Analysis/Angueton Division Machod MA MS piled MSD piled</td> <td>Analysis/Analyse Result Result Wethod MA Wishord Result Result Wishord Result Wishord Result Wishord Result Wishord Wi</td> <td>Analysis Carners East Analysis/Annunential Protection Division Analysis/Analyte Analysis/Analysis/Analyte Analysis/Analy</td> <td>Advision Michigan Protection Division: Advision Michigan Protection Division: Advision Michigan Mich</td> <td>Add/QC BATCH REPORT Additional publishin and the comers East Add/QC BATCH REPORT Additional publishin and the comers East Additional publishin and the c</td> <td>Anabysis/Anabyte Result Blank Spiked Method Wight Wigh Wigh Conners East Anabysis/Anabyte State Conners East Anabysis/Anabyte State Conners East Anabysis/Anabyte Result Blank Spiked Result Ug/L Ug/L Ug/L Ug/L Ug/L Ug/L Ug/L Ug/L</td> <td>CANDIGE STATE AND TOLIC STATE AND STATE AND</td> <td>QA/QC BATCH REPORT REPORT</td> <td>CAJQQC BATCCH REPORT ASSUPPTION PROTECTION Division ASSUPPTION PROTECTION DIVISION ASSUPPTION PROTECTION DIVISION ASSUPPTION DIVISION PROTECTION DIVISION PROTECTION DIVISION PROTECTION PROTECTION</td> <td> CAA/QC BATCH REPORT Method Mathod Mathod</td> <td> Method M</td> <td> Amales A</td> <td> Michael Publication Michael Publication</td> <td> Mathod M</td> <td>QA/QCC BATCH REPORT Result Method NA NS Dup Method <t< td=""><td>Analysis/Landyne Result Method Mathod Method <</td><td>Control Exercise Designation Designation CAA/QCC BATCH REPORT REPORT Result Report LC3 LC3<td>Anabjeals/Ana</td><td> Company Part Part</td><td> Mattheway Result Result</td><td> Communication Communicatio</td><td> March Marc</td><td> Marche M</td><td> Marche M</td><td> Comparison</td><td>Advisory and a control property of the control propert</td><td>Advisorable Division of the control of the control</td><td>QA/QC BATCH REPORT (3A/QC BATCH REPORT) (3A)QC BATCH REPORT (3B)QC BATCH REPORT</td></td></t<></td> | Method MA MS Dup MSD MS MSD LCA LCS LCSD LCSD LCSD LCSD LCSD LCSD LCSD | Method MA MS Dup MSD MS MSD MS MSD MSD MS MSD MSD MSD MS | Method MA MS Dup MSD MS LCA LCS LCSD LCSD LCSUt Blank Spiked Result Resu | Method MA/QC BATCH REPORT Result Method MA MS Dup MSD MSD LCA LCS LCSD L | Method Ma Ms Ms Ms Ms Ms Ms Ms | Method MA MS Dup MSD MS Dup MSD LCA LCS LCSD LCSD LCSD LCSD LCSD LCSD LCSD | Method MA MS Dup MSD MSD | CAL/QC BATCH REPORT Result Method MA MS but liked MSD but liked < | Macthood MA | Analysis/Angueton Division Machod MA MS piled MSD piled | Analysis/Analyse Result Result Wethod MA Wishord Result Result Wishord Result Wishord Result Wishord Result Wishord Wi | Analysis Carners East Analysis/Annunential Protection Division Analysis/Analyte Analysis/Analysis/Analyte Analysis/Analy | Advision Michigan Protection Division: Advision Michigan Protection Division: Advision Michigan Mich | Add/QC BATCH REPORT Additional publishin and the comers East Add/QC BATCH REPORT Additional publishin and the comers East Additional publishin and the c | Anabysis/Anabyte Result Blank Spiked Method Wight Wigh Wigh Conners East Anabysis/Anabyte State Conners East Anabysis/Anabyte State Conners East Anabysis/Anabyte Result Blank Spiked Result Ug/L Ug/L Ug/L Ug/L Ug/L Ug/L Ug/L Ug/L | CANDIGE STATE AND TOLIC STATE AND | QA/QC BATCH REPORT REPORT | CAJQQC BATCCH REPORT ASSUPPTION PROTECTION Division ASSUPPTION PROTECTION DIVISION ASSUPPTION PROTECTION DIVISION ASSUPPTION DIVISION PROTECTION DIVISION PROTECTION DIVISION PROTECTION | CAA/QC BATCH REPORT Method Mathod Mathod | Method M | Amales A | Michael Publication Michael Publication | Mathod M | QA/QCC BATCH REPORT Result Method NA NS Dup Method NS Dup Method <t< td=""><td>Analysis/Landyne Result Method Mathod Method <</td><td>Control Exercise Designation Designation CAA/QCC BATCH REPORT REPORT Result Report LC3 LC3<td>Anabjeals/Ana</td><td> Company Part Part</td><td> Mattheway Result Result</td><td> Communication Communicatio</td><td> March Marc</td><td> Marche M</td><td> Marche M</td><td> Comparison</td><td>Advisory and a control property of the control propert</td><td>Advisorable Division of the control of the control</td><td>QA/QC BATCH REPORT (3A/QC BATCH REPORT) (3A)QC BATCH REPORT (3B)QC BATCH REPORT</td></td></t<> | Analysis/Landyne Result Method Mathod Method < | Control Exercise Designation Designation CAA/QCC BATCH REPORT REPORT Result Report LC3 LC3 <td>Anabjeals/Ana</td> <td> Company Part Part</td> <td> Mattheway Result Result</td> <td> Communication Communicatio</td> <td> March Marc</td> <td> Marche M</td> <td> Marche M</td> <td> Comparison</td> <td>Advisory and a control property of the control propert</td> <td>Advisorable Division of the control of the control</td> <td>QA/QC BATCH REPORT (3A/QC BATCH REPORT) (3A)QC BATCH REPORT (3B)QC BATCH REPORT</td> | Anabjeals/Ana | Company Part Part | Mattheway Result Result | Communication Communicatio | March Marc | Marche M | Marche M | Comparison | Advisory and a control property of the control propert | Advisorable Division of the control | QA/QC BATCH REPORT (3A/QC BATCH REPORT) (3A)QC BATCH REPORT (3B)QC BATCH REPORT |

Effective Date: 06/03/2021 SOP6-065 Rev. 4 Page 7 of 7

J	QA/QC BATCH REPORT

Georgia Environmental Protection Division 5804 Peachtree Corners East Norcross, GA 30092-3403

		Method	MA	S.W.	MS Din	USD	N.	US M	40	8	080	200	9	200
Analysis/Analyte	Result	Blank	Spiked	Result	Result	Prec	Rec	Rec	Spiked	Result	Result	Prec	Rec	Rec
\$827CW	ng/L	ng/L	ng/L	ng/L	ng/L	RPD	%	%	ng/L	ng/L	ng/L	RPD	%	%
Phenol	Q	<10	100	9.52	13.6	U*35.3	J*35.3 L*9.52	13.6	100	27.4	28.0	2.17	27.4	28.0
Phenol-d5(Surrogate QC Std.)	16.2	22.3	100	P*9.96	13.8				100	27.4	28.9			
Pronamide	Q	<10												
Pyrene	Q	<10	100	76.5	72.4	5.51	76.5	72.4	100	86.9	86.8	0.115	86.9	86.8
Pyridine	Q	<10												
Terphenyl-d14(Surrogate QC Std.)	77.4	82.7	100	86.6	80.2		L		100	8.76	98.0			

Comments: \$RD827CW- EPA 8270CW- Matrix spike duplicate had one compound, 4-Nitrophenol (9.65% recovery, limits 10-100%) with a recovery outside acceptable control limits. LCS results were within acceptable control limits. 7-020618-22

SR_827CW- EPA 8270CW- Matrix spike had two compounds, Phenol (9.52% recovery, limits 11-100%) and 2-Chlorophenol (20.1% recovery, limits 23-100%) with recoveries outside acceptable control limits. LCS results were within acceptable control limits. 7-020618-22 Comments:

\$S_827CW- EPA 8270C-Matrix spike had two surrogate compounds, 2-Fluorophenol (7.73% recovery, limits 10-100%) and Phenol-d5 (9.96% recovery, limits 10-100%) with recoveries outside acceptable control limits. LCS results were within acceptable control limits. 7-020618-22 Comments:

Comments:

\$P.827CW-EPA 8270C-MS/MSD precision has two compounds, Phenol (35.3% precision, limit <30%) and 2-Chlorophenol (32.5% precision, limit <30%) with precisions outside acceptable control limits. 7-020618-22

\$827CW-170385