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Sample Qualification Report (All Analytes)

Client Sample ID : E11-119-S3
 Sample Date : 07/13/2011
 Lab Sample ID: 31101872008

Lab Report Batch : 31101872
 Analysis Type: RES

Lab ID : SGSW
 Sample Matrix : SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 6010C				Dilution: 1																
Arsenic	2.51		mg/kg		YES															
Arsenic	2.51		mg/kg		YES															
Barium	69.3		mg/kg		YES															
Barium	69.3		mg/kg		YES															
Cadmium	0.622		mg/kg		YES															
Cadmium	0.622		mg/kg		YES															
Chromium	6.04		mg/kg		YES	J							J							
Chromium	6.04		mg/kg		YES	J							J							
Lead	7.91		mg/kg		YES	J							J							
Lead	7.91		mg/kg		YES	J							J							
Selenium	2.14		mg/kg	U	YES															
Selenium	2.14		mg/kg	U	YES															
Silver	1.07		mg/kg	U	YES															
Silver	1.07		mg/kg	U	YES															
Analysis Method : 7471B				Dilution: 1																
Mercury	0.00613		mg/kg	J	YES															
Analysis Method : 8081				Dilution: 1																
4,4'-DDD	0.809		ug/Kg	J	YES	J							J							
4,4'-DDD	0.809		ug/Kg	J	YES	J							J							
4,4'-DDE	11.1		ug/Kg	U	YES															
4,4'-DDE	11.1		ug/Kg	U	YES															
4,4'-DDT	11.1		ug/Kg	U	YES															
4,4'-DDT	11.1		ug/Kg	U	YES															
Aldrin	11.1		ug/Kg	U	YES															
Aldrin	11.1		ug/Kg	U	YES															
alpha-BHC	11.1		ug/Kg	U	YES															
alpha-BHC	11.1		ug/Kg	U	YES															

Project Number and Name: 11-032E Carroll Agent Orange

Library Used: CampCarroll

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Report Date: 9/6/2011 08:59

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* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

5801

Sample Qualification Report (All Analytes)

Client Sample ID : E11-119-S3

Lab Report Batch : 31101872

Lab ID : SGSW

Sample Date : 07/13/2011

Analysis Type: RES

Sample Matrix : SO

Lab Sample ID: 31101872008

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist TotDis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8081																				
Dilution: 1																				
alpha-Chlordane	11.1		ug/Kg	U	YES	R														
alpha-Chlordane	11.1		ug/Kg	U	YES	R														
beta-BHC	11.1		ug/Kg	U	YES															
beta-BHC	11.1		ug/Kg	U	YES															
Chlordane	37.0		ug/Kg	U	YES															
Chlordane	37.0		ug/Kg	U	YES															
delta-BHC	11.1		ug/Kg	U	YES															
delta-BHC	11.1		ug/Kg	U	YES															
Dieldrin	11.1		ug/Kg	U	YES															
Dieldrin	11.1		ug/Kg	U	YES															
Endosulfan I	11.1		ug/Kg	U	YES															
Endosulfan I	11.1		ug/Kg	U	YES															
Endosulfan II	11.1		ug/Kg	U	YES															
Endosulfan II	11.1		ug/Kg	U	YES															
Endosulfan sulfate	11.1		ug/Kg	U	YES															
Endosulfan sulfate	11.1		ug/Kg	U	YES															
Endrin	11.1		ug/Kg	U	YES															
Endrin	11.1		ug/Kg	U	YES															
Endrin aldehyde	11.1		ug/Kg	U	YES															
Endrin aldehyde	11.1		ug/Kg	U	YES															
Endrin ketone	11.1		ug/Kg	U	YES															
Endrin ketone	11.1		ug/Kg	U	YES															
gamma-BHC (Lindane)	1.10		ug/Kg	J	YES	J														
gamma-BHC (Lindane)	1.10		ug/Kg	J	YES	J														
gamma-Chlordane	11.1		ug/Kg	U	YES															
gamma-Chlordane	11.1		ug/Kg	U	YES															

Project Number and Name: 11-032E Carroll Agent Orange

Library Used: CampCarroll

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* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

5802

Sample Qualification Report (All Analytes)

Client Sample ID : E11-119-S3

Lab Report Batch : 31101872

Lab ID : SGSW

Sample Date : 07/13/2011

Analysis Type: RES

Sample Matrix : SO

Lab Sample ID: 31101872008

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8081																				
Dilution: 1																				
Heptachlor	11.1		ug/Kg	U	YES															
Heptachlor	11.1		ug/Kg	U	YES															
Heptachlor epoxide	11.1		ug/Kg	U	YES															
Heptachlor epoxide	11.1		ug/Kg	U	YES															
Methoxychlor	11.1		ug/Kg	U	YES															
Methoxychlor	11.1		ug/Kg	U	YES															
Toxaphene	37.0		ug/Kg	U	YES															
Toxaphene	37.0		ug/Kg	U	YES															
Analysis Method : 8151																				
Dilution: 1																				
2,4,5-T	0.0188		mg/kg	U	YES															
2,4,5-TP (Silvex)	0.0188		mg/kg	U	YES															
2,4'-D	0.0188		mg/kg	U	YES															
2,4-DB	0.0188		mg/kg	U	YES															
Dicamba	0.0188		mg/kg	U	YES															
Analysis Method : 8270D																				
Dilution: 1																				
1,2,4-Trichlorobenzene	366		ug/Kg	U	YES															
1,2-Dichlorobenzene	366		ug/Kg	U	YES															
1,3-Dichlorobenzene	366		ug/Kg	U	YES															
1,4-Dichlorobenzene	366		ug/Kg	U	YES															
2,4,5-Trichlorophenol	366		ug/Kg	U	YES															
2,4,6-Trichlorophenol	366		ug/Kg	U	YES															
2,4-Dichlorophenol	366		ug/Kg	U	YES															
2,4-Dimethylphenol	366		ug/Kg	U	YES															
2,4-Dinitrotoluene	366		ug/Kg	U	YES															
2,6-Dinitrotoluene	366		ug/Kg	U	YES															
2-Chloronaphthalene	366		ug/Kg	U	YES															
2-Chlorophenol	366		ug/Kg	U	YES															

Project Number and Name: 11-032E Carroll Agent Orange

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* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

5803

Sample Qualification Report (All Analytes)

Client Sample ID : E11-119-S3
 Sample Date : 07/13/2011
 Lab Sample ID: 31101872008

Lab Report Batch : 31101872
 Analysis Type: RES

Lab ID : SGSW
 Sample Matrix : SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8270D																				
Dilution: 1																				
2-Methylnaphthalene	366		ug/Kg	U	YES															
2-Methylphenol	366		ug/Kg	U	YES															
2-Nitroaniline	366		ug/Kg	U	YES															
2-Nitrophenol	366		ug/Kg	U	YES															
3 and/or 4-Methylphenol	366		ug/Kg	U	YES															
3-Nitroaniline	366		ug/Kg	U	YES															
4-Bromophenyl phenyl ether	366		ug/Kg	U	YES															
4-Chloro-3-methylphenol	366		ug/Kg	U	YES															
4-Chloroaniline	366		ug/Kg	U	YES															
4-Chlorophenyl phenyl ether	366		ug/Kg	U	YES															
4-Nitroaniline	366		ug/Kg	U	YES															
4-Nitrophenol	366		ug/Kg	U	YES															
Acenaphthene	366		ug/Kg	U	YES															
Acenaphthylene	366		ug/Kg	U	YES															
Anthracene	366		ug/Kg	U	YES															
Benzo(a)anthracene	366		ug/Kg	U	YES															
Benzo(a)pyrene	366		ug/Kg	U	YES															
Benzo(b)fluoranthene	366		ug/Kg	U	YES															
Benzo(g,h,i)perylene	366		ug/Kg	U	YES															
Benzo(k)fluoranthene	366		ug/Kg	U	YES															
Bis(2-Chloroethoxy)methane	366		ug/Kg	U	YES															
Bis(2-Chloroethyl)ether	366		ug/Kg	U	YES															
Bis(2-Chloroisopropyl)ether	366		ug/Kg	U	YES															
Bis(2-Ethylhexyl)phthalate	366		ug/Kg	U	YES															
Butyl benzyl phthalate	366		ug/Kg	U	YES															
Chrysene	366		ug/Kg	U	YES															

Project Number and Name: 11-032E Carroll Agent Orange

Library Used: CampCarroll

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* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

5804

Sample Qualification Report (All Analytes)

Client Sample ID : E11-119-S3

Lab Report Batch : 31101872

Lab ID : SGSW

Sample Date : 07/13/2011

Analysis Type: RES

Sample Matrix : SO

Lab Sample ID: 31101872008

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8270D																				
Dilution: 1																				
Dibenz(a,h)anthracene	366		ug/Kg	U	YES															
Dibenzofuran	366		ug/Kg	U	YES															
Diethyl phthalate	366		ug/Kg	U	YES															
Dimethyl phthalate	366		ug/Kg	U	YES															
Di-n-butyl phthalate	366		ug/Kg	U	YES															
Di-n-octyl phthalate	366		ug/Kg	U	YES	UJ				UJ										
Fluoranthene	366		ug/Kg	U	YES															
Fluorene	366		ug/Kg	U	YES															
Hexachlorobenzene	366		ug/Kg	U	YES															
Hexachlorobutadiene	366		ug/Kg	U	YES															
Hexachlorocyclopentadiene	366		ug/Kg	U	YES															
Hexachloroethane	366		ug/Kg	U	YES															
Indeno(1,2,3-cd)pyrene	366		ug/Kg	U	YES															
Isophorone	366		ug/Kg	U	YES															
Naphthalene	366		ug/Kg	U	YES															
Nitrobenzene	366		ug/Kg	U	YES															
n-Nitrosodi-n-propylamine	366		ug/Kg	U	YES															
Pentachlorophenol	366		ug/Kg	U	YES															
Phenanthrene	366		ug/Kg	U	YES															
Phenol	366		ug/Kg	U	YES															
Pyrene	366		ug/Kg	U	YES															

Project Number and Name: 11-032E Carroll Agent Orange

Library Used: CampCarroll

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* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

5805

Sample Qualification Report (All Analytes)

Client Sample ID : E11-119-S4
 Sample Date : 07/13/2011
 Lab Sample ID: 31101872009

Lab Report Batch : 31101872
 Analysis Type: RES

Lab ID : SGSW
 Sample Matrix : SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist To/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 6010C				Dilution: 1																
Arsenic	1.32		mg/kg		YES															
Arsenic	1.32		mg/kg		YES															
Barium	77.9		mg/kg		YES															
Barium	77.9		mg/kg		YES															
Cadmium	0.648		mg/kg		YES															
Cadmium	0.648		mg/kg		YES															
Chromium	6.72		mg/kg		YES	J						J								
Chromium	6.72		mg/kg		YES	J						J								
Lead	9.93		mg/kg		YES	J						J								
Lead	9.93		mg/kg		YES	J						J								
Selenium	2.06		mg/kg	U	YES															
Selenium	2.06		mg/kg	U	YES															
Silver	1.03		mg/kg	U	YES															
Silver	1.03		mg/kg	U	YES															
Analysis Method : 7471B				Dilution: 1																
Mercury	0.0188		mg/kg	U	YES															
Analysis Method : 8081				Dilution: 1																
4,4'-DDD	10.1		ug/kg	U	YES															
4,4'-DDD	10.1		ug/kg	U	YES															
4,4'-DDE	10.1		ug/kg	U	YES															
4,4'-DDE	10.1		ug/kg	U	YES															
4,4'-DDT	0.581		ug/kg	J P	YES	J						J								
4,4'-DDT	0.581		ug/kg	J P	YES	J						J								
Aldrin	10.1		ug/kg	U	YES															
Aldrin	10.1		ug/kg	U	YES															
alpha-BHC	10.1		ug/kg	U	YES															
alpha-BHC	10.1		ug/kg	U	YES															

Project Number and Name: 11-032E Carroll Agent Orange

Library Used: CampCarroll

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* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

5806

Sample Qualification Report (All Analytes)

Client Sample ID : E11-119-S4

Lab Report Batch : 31101872

Lab ID : SGSW

Sample Date : 07/13/2011

Analysis Type: RES

Sample Matrix : SO

Lab Sample ID: 31101872009

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Quali*	Temp	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist TotDis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8081																				
Dilution: 1																				
alpha-Chlordane	10.1		ug/Kg	U	YES	R														
alpha-Chlordane	10.1		ug/Kg	U	YES	R														
beta-BHC	10.1		ug/Kg	U	YES															
beta-BHC	10.1		ug/Kg	U	YES															
Chlordane	33.7		ug/Kg	U	YES															
Chlordane	33.7		ug/Kg	U	YES															
delta-BHC	10.1		ug/Kg	U	YES															
delta-BHC	10.1		ug/Kg	U	YES															
Dieldrin	10.1		ug/Kg	U	YES															
Dieldrin	10.1		ug/Kg	U	YES															
Endosulfan I	10.1		ug/Kg	U	YES															
Endosulfan I	10.1		ug/Kg	U	YES															
Endosulfan II	10.1		ug/Kg	U	YES															
Endosulfan II	10.1		ug/Kg	U	YES															
Endosulfan sulfate	10.1		ug/Kg	U	YES															
Endosulfan sulfate	10.1		ug/Kg	U	YES															
Endrin	10.1		ug/Kg	U	YES															
Endrin	10.1		ug/Kg	U	YES															
Endrin aldehyde	10.1		ug/Kg	U	YES															
Endrin aldehyde	10.1		ug/Kg	U	YES															
Endrin ketone	10.1		ug/Kg	U	YES															
Endrin ketone	10.1		ug/Kg	U	YES															
gamma-BHC (Lindane)	0.636		ug/Kg	J	YES	J														
gamma-BHC (Lindane)	0.636		ug/Kg	J	YES	J														
gamma-Chlordane	10.1		ug/Kg	U	YES															
gamma-Chlordane	10.1		ug/Kg	U	YES															

Project Number and Name: i» - 11-032E Carroff Agent Orange

Library Used: CampCarroll

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* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

5807

Sample Qualification Report (All Analytes)

Client Sample ID : E11-119-S4
 Sample Date : 07/13/2011
 Lab Sample ID: 31101872009

Lab Report Batch : 31101872
 Analysis Type: RES

Lab ID : SGSW
 Sample Matrix : SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	HT	MB	LCS	MS	Lab Dup	Surr	Rep Lmt	Moist To/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8081																				
Dilution: 1																				
Heptachlor	10.1		ug/Kg	U	YES															
Heptachlor	10.1		ug/Kg	U	YES															
Heptachlor epoxide	10.1		ug/Kg	U	YES															
Heptachlor epoxide	10.1		ug/Kg	U	YES															
Methoxychlor	10.1		ug/Kg	U	YES															
Methoxychlor	10.1		ug/Kg	U	YES															
Toxaphene	33.7		ug/Kg	U	YES															
Toxaphene	33.7		ug/Kg	U	YES															
Analysis Method : 8151																				
Dilution: 1																				
2,4,5-T	0.0173		mg/kg	U	YES															
2,4,5-TP (Silvex)	0.0173		mg/kg	U	YES															
2,4'-D	0.0173		mg/kg	U	YES															
2,4-DB	0.0173		mg/kg	U	YES															
Dicamba	0.0173		mg/kg	U	YES															
Analysis Method : 8260B																				
Dilution: 1																				
1,1,1,2-Tetrachloroethane	4.80		ug/Kg	U	YES															
1,1,1-Trichloroethane	4.80		ug/Kg	U	YES															
1,1,2,2-Tetrachloroethane	4.80		ug/Kg	U	YES															
1,1,2-Trichloroethane	4.80		ug/Kg	U	YES															
1,1-Dichloroethane	4.80		ug/Kg	U	YES															
1,1-Dichloroethene	4.80		ug/Kg	U	YES															
1,1-Dichloropropene	4.80		ug/Kg	U	YES															
1,2,3-Trichlorobenzene	4.80		ug/Kg	U	YES															
1,2,3-Trichloropropane	4.80		ug/Kg	U	YES															
1,2,4-Trichlorobenzene	4.80		ug/Kg	U	YES	UJ						UJ								
1,2,4-Trimethylbenzene	4.80		ug/Kg	U	YES															
1,2-Dibromo-3-chloropropane	28.8		ug/Kg	U	YES															

Project Number and Name: T*J - 11-032E Carroll Agent Orange

Library Used: CampCarroll

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* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

5808

Sample Qualification Report (All Analytes)

Client Sample ID : E11-119-S4
 Sample Date : 07/13/2011
 Lab Sample ID: 31101872009

Lab Report Batch : 31101872
 Analysis Type: RES

Lab ID : SGSW
 Sample Matrix : SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8260B																				
Dilution: 1																				
1,2-Dibromoethane	4.80		ug/Kg	U	YES															
1,2-Dichlorobenzene	4.80		ug/Kg	U	YES															
1,2-Dichloroethane	4.80		ug/Kg	U	YES															
1,2-Dichloropropane	4.80		ug/Kg	U	YES															
1,3,5-Trimethylbenzene	4.80		ug/Kg	U	YES															
1,3-Dichlorobenzene	4.80		ug/Kg	U	YES															
1,3-Dichloropropane	4.80		ug/Kg	U	YES															
1,4-Dichlorobenzene	4.80		ug/Kg	U	YES															
2,2-Dichloropropane	4.80		ug/Kg	U	YES															
2-Butanone	24.0		ug/Kg	U	YES															
2-Chlorotoluene	4.80		ug/Kg	U	YES															
2-Hexanone	12.0		ug/Kg	U	YES															
4-Chlorotoluene	4.80		ug/Kg	U	YES															
4-Isopropyltoluene	4.80		ug/Kg	U	YES															
4-Methyl-2-pentanone	12.0		ug/Kg	U	YES															
Acetone	8.89		ug/Kg	J	YES															
Benzene	4.80		ug/Kg	U	YES															
Bromobenzene	4.80		ug/Kg	U	YES															
Bromochloromethane	4.80		ug/Kg	U	YCD															
Bromodichloromethane	4.80		ug/Kg	U	YES															
Bromoform	4.80		ug/Kg	U	YES															
Bromomethane	4.80		ug/Kg	U	YES															
Carbon disulfide	4.80		ug/Kg	U	YES															
Carbon tetrachloride	4.80		ug/Kg	U	YES															
Chlorobenzene	4.80		ug/Kg	U	YES															
Chloroethane	4.80		ug/Kg	U	YES															

Project Number and Name: 11-032E Carroll Agent Orange

Library Used: CampCarroll

ADR 8.2

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* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

5809

Sample Qualification Report (All Analytes)

Client Sample ID : E11-119-S4
 Sample Date : 07/13/2011
 Lab Sample ID: 31101872009

Lab Report Batch : 31101872
 Analysis Type: RES

Lab ID : SGSW
 Sample Matrix : SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8260B																				
Dilution: 1																				
Chloroform	4.80		ug/Kg	U	YES															
Chloromethane	4.80		ug/Kg	U	YES															
cis-1,2-Dichloroethene	22.4		ug/Kg		YES															
cis-1,3-Dichloropropene	4.80		ug/Kg	U	YES															
Dibromochloromethane	4.80		ug/Kg	U	YES															
Dibromomethane	4.80		ug/Kg	U	YES															
Dichlorodifluoromethane	4.80		ug/Kg	U	YES															
Ethyl Benzene	4.80		ug/Kg	U	YES															
Hexachlorobutadiene	4.80		ug/Kg	U	YES															
Isopropylbenzene (Cumene)	4.80		ug/Kg	U	YES															
m,p-Xylene	9.60		ug/Kg	U	YES															
Methyl iodide	4.80		ug/Kg	U	YES															
Methylene chloride	2.49		ug/Kg	J	YES															
Naphthalene	4.80		ug/Kg	U	YES															
n-Butylbenzene	4.80		ug/Kg	U	YES															
n-Propylbenzene	4.80		ug/Kg	U	YES															
o-Xylene	4.80		ug/Kg	U	YES															
sec-Butylbenzene	4.80		ug/Kg	U	YES															
Etyrono	4.80		ug/Kg	U	VCC	UJ						UJ								
tert-Butyl methyl ether (MTBE)	4.80		ug/Kg	U	YES															
tert-Butylbenzene	4.80		ug/Kg	U	YES															
Tetrachloroethene	8.68		ug/Kg		YES															
Toluene	4.80		ug/Kg	U	YES															
trans-1,2-Dichloroethene	4.80		ug/Kg	U	YES															
trans-1,3-Dichloropropene	4.80		ug/Kg	U	YES															
trans-1,4-Dichloro-2-butene	24.0		ug/Kg	U	YES															

Project Number and Name: 11-032E Carroll Agent Orange

Library Used: CampCarroll

ADR 8.2

Report Date: 9/6/2011 08:59

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* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

5810

Sample Qualification Report (All Analytes)

Client Sample ID : E11-119-S4
 Sample Date : 07/13/2011
 Lab Sample ID: 31101872009

Lab Report Batch : 31101872
 Analysis Type: RES

Lab ID : SGSW
 Sample Matrix : SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8260B																				
Dilution: 1																				
Trichloroethene	1.05		ug/Kg	J	YES															
Trichlorofluoromethane	4.80		ug/Kg	U	YES															
Vinyl chloride	4.80		ug/Kg	U	YES															
Analysis Method : 8270D																				
Dilution: 1																				
1,2,4-Trichlorobenzene	346		ug/Kg	U	YES															
1,2-Dichlorobenzene	346		ug/Kg	U	YES															
1,3-Dichlorobenzene	346		ug/Kg	U	YES															
1,4-Dichlorobenzene	346		ug/Kg	U	YES															
2,4,5-Trichlorophenol	346		ug/Kg	U	YES															
2,4,6-Trichlorophenol	346		ug/Kg	U	YES															
2,4-Dichlorophenol	346		ug/Kg	U	YES															
2,4-Dimethylphenol	346		ug/Kg	U	YES															
2,4-Dinitrotoluene	346		ug/Kg	U	YES															
2,6-Dinitrotoluene	346		ug/Kg	U	YES															
2-Chloronaphthalene	346		ug/Kg	U	YES															
2-Chlorophenol	346		ug/Kg	U	YES															
2-Methylnaphthalene	346		ug/Kg	U	YES															
2-Methylphenol	346		ug/Kg	U	YES															
2-Nitroaniline	346		ug/Kg	U	YES															
2-Nitrophenol	346		ug/Kg	U	YES															
3 and/or 4-Methylphenol	346		ug/Kg	U	YES															
3-Nitroaniline	346		ug/Kg	U	YES															
4-Bromophenyl phenyl ether	346		ug/Kg	U	YES															
4-Chloro-3-methylphenol	346		ug/Kg	U	YES															
4-Chloroaniline	346		ug/Kg	U	YES															
4-Chlorophenyl phenyl ether	346		ug/Kg	U	YES															
4-Nitroaniline	346		ug/Kg	U	YES															

Project Number and Name: T»L - 11-032E Carroll Agent Orange

Library Used: CampCarroll

ADR 8.2

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* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

5811

Sample Qualification Report (All Analytes)

Client Sample ID : E11-119-S4
 Sample Date : 07/13/2011
 Lab Sample ID: 31101872009

Lab Report Batch : 31101872
 Analysis Type: RES

Lab ID : SGSW
 Sample Matrix : SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8270D																				
Dilution: 1																				
4-Nitrophenol	346		ug/Kg	U	YES															
Acenaphthene	346		ug/Kg	U	YES															
Acenaphthylene	346		ug/Kg	U	YES															
Anthracene	346		ug/Kg	U	YES															
Benzo(a)anthracene	346		ug/Kg	U	YES															
Benzo(a)pyrene	346		ug/Kg	U	YES															
Benzo(b)fluoranthene	346		ug/Kg	U	YES															
Benzo(g,h)perylene	346		ug/Kg	U	YES															
Benzo(k)fluoranthene	346		ug/Kg	U	YES															
Bis(2-Chloroethoxy)methane	346		ug/Kg	U	YES															
Bis(2-Chloroethyl)ether	346		ug/Kg	U	YES															
Bis(2-Chloroisopropyl)ether	346		ug/Kg	U	YES															
Bis(2-Ethylhexyl)phthalate	346		ug/Kg	U	YES															
Butyl benzyl phthalate	346		ug/Kg	U	YES															
Chrysene	346		ug/Kg	U	YES															
Dibenz(a,h)anthracene	346		ug/Kg	U	YES															
Dibenzofuran	346		ug/Kg	U	YES															
Diethyl phthalate	346		ug/Kg	U	YES															
Dimethyl phthalate	346		ug/Kg	U	YES															
Di-n-butyl phthalate	346		ug/Kg	U	YES															
Di-n-octyl phthalate	346		ug/Kg	U	YES	UJ					UJ									
Fluoranthene	346		ug/Kg	U	YES															
Fluorene	346		ug/Kg	U	YES															
Hexachlorobenzene	346		ug/Kg	U	YES															
Hexachlorobutadiene	346		ug/Kg	U	YES															
Hexachlorocyclopentadiene	346		ug/Kg	U	YES															

Project Number and Name: T&E - 11-032E Carroll Agent Orange

Library Used: CampCarroll

ADR 8.2

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* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

5812

Sample Qualification Report (All Analytes)

Client Sample ID : E11-119-S4
 Sample Date : 07/13/2011
 Lab Sample ID: 31101872009

Lab Report Batch : 31101872
 Analysis Type: RES

Lab ID : SGSW
 Sample Matrix : SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist TotDis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8270D			Dilution: 1																	
Hexachloroethane	346		ug/Kg	U	YES															
Indeno(1,2,3-cd)pyrene	346		ug/Kg	U	YES															
Isophorone	346		ug/Kg	U	YES															
Naphthalene	346		ug/Kg	U	YES															
Nitrobenzene	346		ug/Kg	U	YES															
n-Nitrosodi-n-propylamine	346		ug/Kg	U	YES															
Pentachlorophenol	346		ug/Kg	U	YES															
Phenanthrene	346		ug/Kg	U	YES															
Phenol	346		ug/Kg	U	YES															
Pyrene	346		ug/Kg	U	YES															

Project Number and Name: 11-032E Carroll Agent Orange

Library Used: CampCarroll

ADR 8.2

Report Date: 9/6/2011 08:59

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* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

58/3

Sample Qualification Report (All Analytes)

Client Sample ID : E11-124-S1
 Sample Date : 07/13/2011
 Lab Sample ID: 31101872010

Lab Report Batch : 31101872
 Analysis Type: RES

Lab ID : SGSW
 Sample Matrix : SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 6010C			Dilution: 1																	
Arsenic	5.70		mg/kg			YES														
Arsenic	5.70		mg/kg			YES														
Barium	80.8		mg/kg			YES														
Barium	80.8		mg/kg			YES														
Cadmium	0.810		mg/kg			YES														
Cadmium	0.810		mg/kg			YES														
Chromium	4.61		mg/kg			YES	J					J								
Chromium	4.61		mg/kg			YES	J					J								
Lead	12.7		mg/kg			YES	J					J								
Lead	12.7		mg/kg			YES	J					J								
Selenium	2.08		mg/kg	U		YES														
Selenium	2.08		mg/kg	U		YES														
Silver	1.04		mg/kg	U		YES														
Silver	1.04		mg/kg	U		YES														
Analysis Method : 7471B			Dilution: 1																	
Mercury	0.00247		mg/kg	J		YES														
Analysis Method : 8081			Dilution: 1																	
4,4'-DDD	3.81		ug/Kg	J P		YES	J					J								
4,4' DDD	3.81		ug/Kg	J P		YES	J					J								
4,4'-DDE	8.76		ug/Kg	J		YES	J					J								
4,4'-DDE	8.76		ug/Kg	J		YES	J					J								
4,4'-DDT	36.4		ug/Kg			YES	J					J								
4,4'-DDT	36.4		ug/Kg			YES	J					J								
Aldrin	10.3		ug/Kg	U		YES														
Aldrin	10.3		ug/Kg	U		YES														
alpha-BHC	0.743		ug/Kg	J		YES	J					J								
alpha-BHC	0.743		ug/Kg	J		YES	J					J								

Project Number and Name: 11-032E Carroll Agent Orange

Library Used: CampCarroll

ADR 8.2

Report Date: 9/6/2011 08:59

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* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

5814

Sample Qualification Report (All Analytes)

Client Sample ID : E11-124-S1
 Sample Date : 07/13/2011
 Lab Sample ID: 31101872010

Lab Report Batch : 31101872
 Analysis Type: RES

Lab ID : SGSW
 Sample Matrix : SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Molst Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8081																				
Dilution: 1																				
alpha-Chlordane	10.3		ug/Kg	U	YES	R					R									
alpha-Chlordane	10.3		ug/Kg	U	YES	R					R									
beta-BHC	10.3		ug/Kg	U	YES															
beta-BHC	10.3		ug/Kg	U	YES															
Chlordane	34.4		ug/Kg	U	YES															
Chlordane	34.4		ug/Kg	U	YES															
delta-BHC	0.630		ug/Kg	J	YES															
delta-BHC	0.630		ug/Kg	J	YES															
Dieldrin	10.3		ug/Kg	U	YES															
Dieldrin	10.3		ug/Kg	U	YES															
Endosulfan I	10.3		ug/Kg	U	YES															
Endosulfan I	10.3		ug/Kg	U	YES															
Endosulfan II	10.3		ug/Kg	U	YES															
Endosulfan II	10.3		ug/Kg	U	YES															
Endosulfan sulfate	10.3		ug/Kg	U	YES															
Endosulfan sulfate	10.3		ug/Kg	U	YES															
Endrin	10.3		ug/Kg	U	YES															
Endrin	10.3		ug/Kg	U	YES															
Endrin aldehyde	10.3		ug/Kg	U	YCD							J								
Endrin aldehyde	10.3		ug/Kg	U	YES							J								
Endrin ketone	10.3		ug/Kg	U	YES															
Endrin ketone	10.3		ug/Kg	U	YES															
gamma-BHC (Lindane)	13.5		ug/Kg		YES	J					J									
gamma-BHC (Lindane)	13.5		ug/Kg		YES	J					J									
gamma-Chlordane	10.3		ug/Kg	U	YES															
gamma-Chlordane	10.3		ug/Kg	U	YES															

Project Number and Name: 11-032E Carroll Agent Orange

Library Used: CampCarroll

ADR 8.2

Report Date: 9/6/2011 08:59

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* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

58/5

Sample Qualification Report (All Analytes)

Client Sample ID : E11-124-S1

Lab Report Batch : 31101872

Lab ID : SGSW

Sample Date : 07/13/2011

Analysis Type: RES

Sample Matrix : SO

Lab Sample ID: 31101872010

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8081																				
Dilution: 1																				
Heptachlor	10.3		ug/Kg	U	YES															
Heptachlor	10.3		ug/Kg	U	YES															
Heptachlor epoxide	10.3		ug/Kg	U	YES															
Heptachlor epoxide	10.3		ug/Kg	U	YES															
Methoxychlor	10.3		ug/Kg	U	YES															
Methoxychlor	10.3		ug/Kg	U	YES															
Toxaphene	34.4		ug/Kg	U	YES															
Toxaphene	34.4		ug/Kg	U	YES															
Analysis Method : 8151																				
Dilution: 1																				
2,4,5-T	0.0172		mg/kg	U	YES															
2,4,5-TP (Silvex)	0.0172		mg/kg	U	YES															
2,4'-D	0.0172		mg/kg	U	YES															
2,4-DB	0.0172		mg/kg	U	YES															
Dicamba	0.0172		mg/kg	U	YES															
Analysis Method : 8260B																				
Dilution: 1																				
1,1,1,2-Tetrachloroethane	4.62		ug/Kg	U	YES															
1,1,1-Trichloroethane	4.62		ug/Kg	U	YES															
1,1,2,2-Tetrachloroethane	4.62		ug/Kg	U	YES															
1,1,2-Trichloroethane	4.62		ug/Kg	U	YES															
1,1-Dichloroethane	4.62		ug/Kg	U	YES															
1,1-Dichloroethene	4.62		ug/Kg	U	YES															
1,1-Dichloropropene	4.62		ug/Kg	U	YES															
1,2,3-Trichlorobenzene	4.62		ug/Kg	U	YES															
1,2,3-Trichloropropane	4.62		ug/Kg	U	YES															
1,2,4-Trichlorobenzene	4.62		ug/Kg	U	YES	UJ						UJ								
1,2,4-Trimethylbenzene	4.62		ug/Kg	U	YES															
1,2-Dibromo-3-chloropropane	27.7		ug/Kg	U	YES															

Project Number and Name: 11-032E Carroll Agent Orange

Library Used: CampCarroll

ADR 8.2

Report Date: 9/6/2011 08:59

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* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

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Sample Qualification Report (All Analytes)

Client Sample ID : E11-124-S1
 Sample Date : 07/13/2011
 Lab Sample ID: 31101872010

Lab Report Batch : 31101872
 Analysis Type: RES

Lab ID : SGSW
 Sample Matrix : SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist To/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8260B																				
Dilution: 1																				
1,2-Dibromoethane	4.62		ug/Kg	U	YES															
1,2-Dichlorobenzene	4.62		ug/Kg	U	YES															
1,2-Dichloroethane	4.62		ug/Kg	U	YES															
1,2-Dichloropropane	4.62		ug/Kg	U	YES															
1,3,5-Trimethylbenzene	4.62		ug/Kg	U	YES															
1,3-Dichlorobenzene	4.62		ug/Kg	U	YES															
1,3-Dichloropropane	4.62		ug/Kg	U	YES															
1,4-Dichlorobenzene	4.62		ug/Kg	U	YES															
2,2-Dichloropropane	4.62		ug/Kg	U	YES															
2-Butanone	10.7		ug/Kg	J	YES	J					J									
2-Chlorotoluene	4.62		ug/Kg	U	YES															
2-Hexanone	11.6		ug/Kg	U	YES															
4-Chlorotoluene	4.62		ug/Kg	U	YES															
4-Isopropyltoluene	4.62		ug/Kg	U	YES															
4-Methyl-2-pentanone	11.6		ug/Kg	U	YES															
Acetone	41.2		ug/Kg	J	YES															
Benzene	4.62		ug/Kg	U	YES															
Bromobenzene	4.62		ug/Kg	U	YES															
Bromochloromethane	4.62		ug/Kg	U	YES															
Bromodichloromethane	4.62		ug/Kg	U	YES															
Bromoforn	4.62		ug/Kg	U	YES															
Bromomethane	4.62		ug/Kg	U	YES															
Carbon disulfide	4.62		ug/Kg	U	YES															
Carbon tetrachloride	4.62		ug/Kg	U	YES															
Chlorobenzene	4.62		ug/Kg	U	YES															
Chloroethane	4.62		ug/Kg	U	YES															

Project Number and Name: 11-032E Carroll Agent Orange

Library Used: CampCarroll

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* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

5817

Sample Qualification Report (All Analytes)

Client Sample ID : E11-124-S1
 Sample Date : 07/13/2011
 Lab Sample ID: 31101872010

Lab Report Batch : 31101872
 Analysis Type: RES

Lab ID : SGSW
 Sample Matrix : SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8260B																				
Dilution: 1																				
Chloroform	4.62		ug/Kg	U	YES															
Chloromethane	4.62		ug/Kg	U	YES															
cis-1,2-Dichloroethene	4.62		ug/Kg	U	YES															
cis-1,3-Dichloropropene	4.62		ug/Kg	U	YES															
Dibromochloromethane	4.62		ug/Kg	U	YES															
Dibromomethane	4.62		ug/Kg	U	YES															
Dichlorodifluoromethane	4.62		ug/Kg	U	YES															
Ethyl Benzene	4.62		ug/Kg	U	YES															
Hexachlorobutadiene	4.62		ug/Kg	U	YES															
Isopropylbenzene (Cumene)	4.62		ug/Kg	U	YES															
m,p-Xylene	9.24		ug/Kg	U	YES															
Methyl iodide	4.62		ug/Kg	U	YES															
Methylene chloride	1.44		ug/Kg	J	YES															
Naphthalene	4.62		ug/Kg	U	YES															
n-Butylbenzene	4.62		ug/Kg	U	YES															
n-Propylbenzene	4.62		ug/Kg	U	YES															
o-Xylene	4.62		ug/Kg	U	YES															
sec-Butylbenzene	4.62		ug/Kg	U	YES															
Styrene	4.62		ug/Kg	U	YES	UJ					UJ									
tert-Butyl methyl ether (MTBE)	4.62		ug/Kg	U	YES															
tert-Butylbenzene	4.62		ug/Kg	U	YES															
Tetrachloroethene	4.62		ug/Kg	U	YES															
Toluene	4.62		ug/Kg	U	YES															
trans-1,2-Dichloroethene	4.62		ug/Kg	U	YES															
trans-1,3-Dichloropropene	4.62		ug/Kg	U	YES															
trans-1,4-Dichloro-2-butene	23.1		ug/Kg	U	YES															

Project Number and Name: 11-032E Carroll Agent Orange

Library Used: CampCarroll

ADR 8.2

Report Date: 9/6/2011 08:59

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* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

5818

Sample Qualification Report (All Analytes)

Client Sample ID : E11-124-S1
 Sample Date : 07/13/2011
 Lab Sample ID: 31101872010

Lab Report Batch : 31101872
 Analysis Type: RES

Lab ID : SGSW
 Sample Matrix : SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist TotDis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8260B																				
Dilution: 1																				
Trichloroethene	4.62		ug/Kg	U	YES															
Trichlorofluoromethane	4.62		ug/Kg	U	YES															
Vinyl chloride	4.62		ug/Kg	U	YES															
Analysis Method : 8270D																				
Dilution: 1																				
1,2,4-Trichlorobenzene	330		ug/Kg	U	YES															
1,2-Dichlorobenzene	330		ug/Kg	U	YES															
1,3-Dichlorobenzene	330		ug/Kg	U	YES															
1,4-Dichlorobenzene	330		ug/Kg	U	YES															
2,4,5-Trichlorophenol	330		ug/Kg	U	YES															
2,4,6-Trichlorophenol	330		ug/Kg	U	YES															
2,4-Dichlorophenol	330		ug/Kg	U	YES															
2,4-Dimethylphenol	330		ug/Kg	U	YES															
2,4-Dinitrotoluene	330		ug/Kg	U	YES															
2,6-Dinitrotoluene	330		ug/Kg	U	YES															
2-Chloronaphthalene	330		ug/Kg	U	YES															
2-Chlorophenol	330		ug/Kg	U	YES															
2-Methylnaphthalene	330		ug/Kg	U	YES															
2-Methylphenol	330		ug/Kg	U	YES															
2-Nitroaniline	330		ug/Kg	U	YES															
2-Nitrophenol	330		ug/Kg	U	YES															
3 and/or 4-Methylphenol	330		ug/Kg	U	YES															
3-Nitroaniline	330		ug/Kg	U	YES															
4-Bromophenyl phenyl ether	330		ug/Kg	U	YES															
4-Chloro-3-methylphenol	330		ug/Kg	U	YES															
4-Chloroaniline	330		ug/Kg	U	YES															
4-Chlorophenyl phenyl ether	330		ug/Kg	U	YES															
4-Nitroaniline	330		ug/Kg	U	YES															

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* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

58/19

Sample Qualification Report (All Analytes)

Client Sample ID : E11-124-S1
 Sample Date : 07/13/2011
 Lab Sample ID: 31101872010

Lab Report Batch : 31101872
 Analysis Type: RES

Lab ID : SGSW
 Sample Matrix : SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8270D																				
Dilution: 1																				
4-Nitrophenol	330		ug/Kg	U	YES															
Acenaphthene	330		ug/Kg	U	YES															
Acenaphthylene	330		ug/Kg	U	YES															
Anthracene	330		ug/Kg	U	YES															
Benzo(a)anthracene	330		ug/Kg	U	YES															
Benzo(a)pyrene	330		ug/Kg	U	YES															
Benzo(b)fluoranthene	330		ug/Kg	U	YES															
Benzo(g,h,i)perylene	330		ug/Kg	U	YES															
Benzo(k)fluoranthene	330		ug/Kg	U	YES															
Bis(2-Chloroethyl)methane	330		ug/Kg	U	YES															
Bis(2-Chloroethyl)ether	330		ug/Kg	U	YES															
Bis(2-Chloroisopropyl)ether	330		ug/Kg	U	YES															
Bis(2-Ethylhexyl)phthalate	69.0		ug/Kg	J	YES															
Butyl benzyl phthalate	330		ug/Kg	U	YES															
Chrysene	330		ug/Kg	U	YES															
Dibenz(a,h)anthracene	330		ug/Kg	U	YES															
Dibenzofuran	330		ug/Kg	U	YES															
Diethyl phthalate	330		ug/Kg	U	YES															
Dimethyl phthalate	330		ug/Kg	U	YES															
Di-n-butyl phthalate	330		ug/Kg	U	YES															
Di-n-octyl phthalate	330		ug/Kg	U	YES	UJ				UJ										
Fluoranthene	330		ug/Kg	U	YES															
Fluorene	330		ug/Kg	U	YES															
Hexachlorobenzene	330		ug/Kg	U	YES															
Hexachlorobutadiene	330		ug/Kg	U	YES															
Hexachlorocyclopentadiene	330		ug/Kg	U	YES															

Project Number and Name: 11-032E Carroll Agent Orange

Library Used: CampCarroll

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* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

5820

Sample Qualification Report (All Analytes)

Client Sample ID : E11-124-S1
 Sample Date : 07/13/2011
 Lab Sample ID: 31101872010

Lab Report Batch : 31101872
 Analysis Type: RES

Lab ID : SGSW
 Sample Matrix : SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8270D																				
Dilution: 1																				
Hexachloroethane	330		ug/Kg	U	YES															
Indeno(1,2,3-cd)pyrene	330		ug/Kg	U	YES															
Isophorone	330		ug/Kg	U	YES															
Naphthalene	330		ug/Kg	U	YES															
Nitrobenzene	330		ug/Kg	U	YES															
n-Nitrosodi-n-propylamine	330		ug/Kg	U	YES															
Pentachlorophenol	330		ug/Kg	U	YES															
Phenanthrene	330		ug/Kg	U	YES															
Phenol	330		ug/Kg	U	YES															
Pyrene	330		ug/Kg	U	YES															

Project Number and Name: 11-032E Carroll Agent Orange

Library Used: CampCarroll

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* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

5821

Sample Qualification Report (All Analytes)

Client Sample ID : E11-124-S2
 Sample Date : 07/13/2011
 Lab Sample ID: 31101872011

Lab Report Batch : 31101872
 Analysis Type: DL

Lab ID : SGSW
 Sample Matrix : SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8081																				
Dilution: 2000																				
4,4'-DDD	20000		ug/Kg	U	YES															
4,4'-DDD	20000		ug/Kg	U	YES															
4,4'-DDE	20000		ug/Kg	U	YES															
4,4'-DDE	20000		ug/Kg	U	YES															
4,4'-DDT	20000		ug/Kg	U	YES															
4,4'-DDT	20000		ug/Kg	U	YES															
Aldrin	20000		ug/Kg	U	YES															
Aldrin	20000		ug/Kg	U	YES															
alpha-BHC	2730		ug/Kg	J	YES	J					J									
alpha-BHC	2730		ug/Kg	J	YES	J					J									
alpha-Chlordane	20000		ug/Kg	U	YES	R					R									
alpha-Chlordane	20000		ug/Kg	U	YES	R					R									
beta-BHC	20000		ug/Kg	U	YES															
beta-BHC	20000		ug/Kg	U	YES															
Chlordane	66800		ug/Kg	U	YES															
Chlordane	66800		ug/Kg	U	YES															
delta-BHC	3530		ug/Kg	J	YES															
delta-BHC	3530		ug/Kg	J	YES															
Dieldrin	20000		ug/Kg	U	YES															
Dieldrin	20000		ug/Kg	U	YES															
Endosulfan I	20000		ug/Kg	U	YES															
Endosulfan I	20000		ug/Kg	U	YES															
Endosulfan II	20000		ug/Kg	U	YES															
Endosulfan II	20000		ug/Kg	U	YES															
Endosulfan sulfate	20000		ug/Kg	U	YES															
Endosulfan sulfate	20000		ug/Kg	U	YES															

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* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

5822

Sample Qualification Report (All Analytes)

Client Sample ID : E11-124-S2
 Sample Date : 07/13/2011
 Lab Sample ID: 31101872011

Lab Report Batch : 31101872
 Analysis Type: DL

Lab ID : SGSW
 Sample Matrix : SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist To/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8081																				
Dilution: 2000																				
Endrin	20000		ug/Kg	U	YES															
Endrin	20000		ug/Kg	U	YES															
Endrin aldehyde	20000		ug/Kg	U	YES															
Endrin aldehyde	20000		ug/Kg	U	YES															
Endrin ketone	20000		ug/Kg	U	YES															
Endrin ketone	20000		ug/Kg	U	YES															
gamma-BHC (Lindane)	46100		ug/Kg		YES	J					J									
gamma-BHC (Lindane)	46100		ug/Kg		YES	J					J									
gamma-Chlordane	20000		ug/Kg	U	YES															
gamma-Chlordane	20000		ug/Kg	U	YES															
Heptachlor	20000		ug/Kg	U	YES															
Heptachlor	20000		ug/Kg	U	YES															
Heptachlor epoxide	20000		ug/Kg	U	YES															
Heptachlor epoxide	20000		ug/Kg	U	YES															
Methoxychlor	20000		ug/Kg	U	YES															
Methoxychlor	20000		ug/Kg	U	YES															
Toxaphene	66800		ug/Kg	U	YES															
Toxaphene	66800		ug/Kg	U	YES															

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* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

5823

Sample Qualification Report (All Analytes)

Client Sample ID : E11-124-S2
 Sample Date : 07/13/2011
 Lab Sample ID: 31101872011

Lab Report Batch : 31101872
 Analysis Type: RES

Lab ID : SGSW
 Sample Matrix : SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 6010C			Dilution: 1																	
Arsenic	2.30		mg/kg		YES															
Arsenic	2.30		mg/kg		YES															
Barium	81.1		mg/kg		YES															
Barium	81.1		mg/kg		YES															
Cadmium	0.809		mg/kg		YES															
Cadmium	0.809		mg/kg		YES															
Chromium	4.97		mg/kg		YES	J						J								
Chromium	4.97		mg/kg		YES	J						J								
Lead	7.44		mg/kg		YES	J						J								
Lead	7.44		mg/kg		YES	J						J								
Selenium	0.728		mg/kg	J	YES															
Selenium	0.728		mg/kg	J	YES															
Silver	0.922		mg/kg	U	YES															
Silver	0.922		mg/kg	U	YES															
Analysis Method : 7471B			Dilution: 1																	
Mercury	0.0181		mg/kg	U	YES															
Analysis Method : 8161			Dilution: 1																	
2,4,5-T	0.0165		mg/kg	U	YES															
2,4,5-T	0.0165		mg/kg	U	YES															
2,4,5-TP (Silvex)	0.0165		mg/kg	U	YES															
2,4,5-TP (Silvex)	0.0165		mg/kg	U	YES															
2,4'-D	0.0165		mg/kg	U	YES															
2,4'-D	0.0165		mg/kg	U	YES															
2,4-DB	0.0165		mg/kg	U	YES															
2,4-DB	0.0165		mg/kg	U	YES															
Dicamba	0.0165		mg/kg	U	YES															
Dicamba	0.0165		mg/kg	U	YES															

Project Number and Name: i*2 - 11-032E Carroll Agent Orange

Library Used: CampCarroll

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* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

5824

Sample Qualification Report (All Analytes)

Client Sample ID : E11-124-S2
 Sample Date : 07/13/2011
 Lab Sample ID: 31101872011

Lab Report Batch : 31101872
 Analysis Type: RES

Lab ID : SGSW
 Sample Matrix : SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV	
Analysis Method : 8260B																					
Dilution: 1																					
1,1,1,2-Tetrachloroethane	5.37		ug/Kg	U	YES																
1,1,1-Trichloroethane	5.37		ug/Kg	U	YES																
1,1,2,2-Tetrachloroethane	5.37		ug/Kg	U	YES																
1,1,2-Trichloroethane	5.37		ug/Kg	U	YES																
1,1-Dichloroethane	5.37		ug/Kg	U	YES																
1,1-Dichloroethene	5.37		ug/Kg	U	YES																
1,1-Dichloropropene	5.37		ug/Kg	U	YES																
1,2,3-Trichlorobenzene	5.37		ug/Kg	U	YES																
1,2,3-Trichloropropane	5.37		ug/Kg	U	YES																
1,2,4-Trichlorobenzene	3.15		ug/Kg	J	YES	J					J										
1,2,4-Trimethylbenzene	2.72		ug/Kg	J	YES																
1,2-Dibromo-3-chloropropane	32.2		ug/Kg	U	YES																
1,2-Dibromoethane	5.37		ug/Kg	U	YES																
1,2-Dichlorobenzene	5.37		ug/Kg	U	YES																
1,2-Dichloroethane	5.37		ug/Kg	U	YES																
1,2-Dichloropropane	5.37		ug/Kg	U	YES																
1,3,5-Trimethylbenzene	1.41		ug/Kg	J	YES																
1,3-Dichlorobenzene	5.37		ug/Kg	U	YES																
1,3-Dichloropropane	5.37		ug/Kg	U	YES																
1,4-Dichlorobenzene	5.37		ug/Kg	U	YES																
2,2-Dichloropropane	5.37		ug/Kg	U	YES																
2-Butanone	26.9		ug/Kg	U	YES																
2-Chlorotoluene	5.37		ug/Kg	U	YES																
2-Hexanone	13.4		ug/Kg	U	YES																
4-Chlorotoluene	5.37		ug/Kg	U	YES																
4-Isopropyltoluene	5.37		ug/Kg	U	YES																

Project Number and Name: 11-032E Carroll Agent Orange

Library Used: CampCarroll

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* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

5825

Sample Qualification Report (All Analytes)

Client Sample ID : E11-124-S2
 Sample Date : 07/13/2011
 Lab Sample ID: 31101872011

Lab Report Batch : 31101872
 Analysis Type: RES

Lab ID : SGSW
 Sample Matrix : SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8260B																				
Dilution: 1																				
4-Methyl-2-pentanone	13.4		ug/Kg	U	YES															
Acetone	25.6		ug/Kg	J	YES															
Benzene	5.37		ug/Kg	U	YES															
Bromobenzene	5.37		ug/Kg	U	YES															
Bromochloromethane	5.37		ug/Kg	U	YES															
Bromodichloromethane	5.37		ug/Kg	U	YES															
Bromoforn	5.37		ug/Kg	U	YES															
Bromomethane	5.37		ug/Kg	U	YES															
Carbon disulfide	5.37		ug/Kg	U	YES															
Carbon tetrachloride	5.37		ug/Kg	U	YES															
Chlorobenzene	5.37		ug/Kg	U	YES															
Chloroethane	5.37		ug/Kg	U	YES															
Chloroform	5.37		ug/Kg	U	YES															
Chloromethane	5.37		ug/Kg	U	YES															
cis-1,2-Dichloroethene	5.37		ug/Kg	U	YES															
cis-1,3-Dichloropropene	5.37		ug/Kg	U	YES															
Dibromochloromethane	5.37		ug/Kg	U	YES															
Dibromomethane	5.37		ug/Kg	U	YES															
Dichlorodifluoromethane	5.37		ug/Kg	U	YES															
Ethyl Benzene	5.37		ug/Kg	U	YES															
Hexachlorobutadiene	5.37		ug/Kg	U	YES															
Isopropylbenzene (Cumene)	5.37		ug/Kg	U	YES															
m,p-Xylene	6.71		ug/Kg	J	YES															
Methyl iodide	5.37		ug/Kg	U	YES															
Methylene chloride	1.11		ug/Kg	J	YES															
Naphthalene	2.40		ug/Kg	J	YES															

Project Number and Name: 102 - 11-032E Carroll Agent Orange

Library Used: CampCarroll

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* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

5826

Sample Qualification Report (All Analytes)

Client Sample ID : E11-124-S2
 Sample Date : 07/13/2011
 Lab Sample ID: 31101872011

Lab Report Batch : 31101872
 Analysis Type: RES

Lab ID : SGSW
 Sample Matrix : SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8260B																				
Dilution: 1																				
n-Butylbenzene	5.37		ug/Kg	U	YES															
n-Propylbenzene	5.37		ug/Kg	U	YES															
o-Xylene	3.00		ug/Kg	J	YES															
sec-Butylbenzene	5.37		ug/Kg	U	YES															
Styrene	5.37		ug/Kg	U	YES	UJ					UJ									
tert-Butyl methyl ether (MTBE)	5.37		ug/Kg	U	YES															
tert-Butylbenzene	5.37		ug/Kg	U	YES															
Tetrachloroethene	1.06		ug/Kg	J	YES															
Toluene	5.37		ug/Kg	U	YES															
trans-1,2-Dichloroethene	5.37		ug/Kg	U	YES															
trans-1,3-Dichloropropene	5.37		ug/Kg	U	YES															
trans-1,4-Dichloro-2-butene	26.9		ug/Kg	U	YES															
Trichloroethene	5.37		ug/Kg	U	YES															
Trichlorofluoromethane	5.37		ug/Kg	U	YES															
Vinyl chloride	5.37		ug/Kg	U	YES															
Analysis Method : 8270D																				
Dilution: 1																				
1,2,4-Trichlorobenzene	87.5		ug/Kg	J	YES															
1,2-Dichlorobenzene	338		ug/Kg	U	YES															
1,3-Dichlorobenzene	338		ug/Kg	U	YES															
1,4-Dichlorobenzene	338		ug/Kg	U	YES															
2,4,6-Trichlorophenol	338		ug/Kg	U	YES															
2,4,6-Trichlorophenol	338		ug/Kg	U	YES															
2,4-Dichlorophenol	338		ug/Kg	U	YES															
2,4-Dimethylphenol	338		ug/Kg	U	YES															
2,4-Dinitrotoluene	338		ug/Kg	U	YES															
2,6-Dinitrotoluene	338		ug/Kg	U	YES															
2-Chloronaphthalene	338		ug/Kg	U	YES															

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* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

5827

Sample Qualification Report (All Analytes)

Client Sample ID : E11-124-S2
 Sample Date : 07/13/2011
 Lab Sample ID: 31101872011

Lab Report Batch : 31101872
 Analysis Type: RES

Lab ID : SGSW
 Sample Matrix : SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8270D																				
Dilution: 1																				
2-Chlorophenol	338		ug/Kg	U		YES														
2-Methylnaphthalene	1690		ug/Kg			YES														
2-Methylphenol	338		ug/Kg	U		YES														
2-Nitroaniline	338		ug/Kg	U		YES														
2-Nitrophenol	338		ug/Kg	U		YES														
3 and/or 4-Methylphenol	338		ug/Kg	U		YES														
3-Nitroaniline	338		ug/Kg	U		YES														
4-Bromophenyl phenyl ether	338		ug/Kg	U		YES														
4-Chloro-3-methylphenol	338		ug/Kg	U		YES														
4-Chloroaniline	338		ug/Kg	U		YES														
4-Chlorophenyl phenyl ether	338		ug/Kg	U		YES														
4-Nitroaniline	338		ug/Kg	U		YES														
4-Nitrophenol	338		ug/Kg	U		YES														
Acenaphthene	338		ug/Kg	U		YES														
Acenaphthylene	338		ug/Kg	U		YES														
Anthracene	338		ug/Kg	U		YES														
Benzo(a)anthracene	338		ug/Kg	U		YES														
Benzo(a)pyrene	338		ug/Kg	U		YES														
Benzo(b)fluoranthene	338		ug/Kg	U		YES														
Benzo(g,h,i)perylene	338		ug/Kg	U		YES														
Benzo(k)fluoranthene	338		ug/Kg	U		YES														
Bis(2-Chloroethoxy)methane	338		ug/Kg	U		YES														
Bis(2-Chloroethyl)ether	338		ug/Kg	U		YES														
Bis(2-Chloroisopropyl)ether	338		ug/Kg	U		YES														
Bis(2-Ethylhexyl)phthalate	338		ug/Kg	U		YES														
Butyl benzyl phthalate	338		ug/Kg	U		YES														

Project Number and Name: Y* - 11-032E Carroll Agent Orange

Library Used: CampCarroll

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* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

5828

Sample Qualification Report (All Analytes)

Client Sample ID : E11-124-S2
 Sample Date : 07/13/2011
 Lab Sample ID: 31101872011

Lab Report Batch : 31101872
 Analysis Type: RES

Lab ID : SGSW
 Sample Matrix : SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field GC	Tune	IC	ICV	CV / CCV
Analysis Method : 8270D																				
Dilution: 1																				
Chrysene	338		ug/Kg	U	YES															
Dibenz(a,h)anthracene	338		ug/Kg	U	YES															
Dibenzofuran	338		ug/Kg	U	YES															
Diethyl phthalate	338		ug/Kg	U	YES															
Dimethyl phthalate	338		ug/Kg	U	YES															
Di-n-butyl phthalate	338		ug/Kg	U	YES															
Di-n-octyl phthalate	338		ug/Kg	U	YES	UJ				UJ										
Fluoranthene	338		ug/Kg	U	YES															
Fluorene	338		ug/Kg	U	YES															
Hexachlorobenzene	338		ug/Kg	U	YES															
Hexachlorobutadiene	338		ug/Kg	U	YES															
Hexachlorocyclopentadiene	338		ug/Kg	U	YES															
Hexachloroethane	338		ug/Kg	U	YES															
Indeno(1,2,3-cd)pyrene	338		ug/Kg	U	YES															
Isophorone	338		ug/Kg	U	YES															
Naphthalene	53.9		ug/Kg	J	YES															
Nitrobenzene	338		ug/Kg	U	YES															
n-Nitrosodi-n-propylamine	338		ug/Kg	U	YES															
Pentachlorophenol	338		ug/Kg	U	YES															
Phenanthrene	338		ug/Kg	U	YES															
Phenol	338		ug/Kg	U	YES															
Pyrene	338		ug/Kg	U	YES															

Project Number and Name: 102 - 11-032E Carroll Agent Orange

Library Used: CampCarroll

ADR 8.2

Report Date: 9/6/2011 08:59

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* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

5829

Sample Qualification Report (All Analytes)

Client Sample ID : E11-124-S3
 Sample Date : 07/13/2011
 Lab Sample ID: 31101872012

Lab Report Batch : 31101872
 Analysis Type: DL

Lab ID : SGSW
 Sample Matrix : SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8081																				
Dilution: 50																				
4,4'-DDD	500		ug/Kg	U	YES															
4,4'-DDD	500		ug/Kg	U	YES															
4,4'-DDE	500		ug/Kg	U	YES															
4,4'-DDE	500		ug/Kg	U	YES															
4,4'-DDT	500		ug/Kg	U	YES															
4,4'-DDT	500		ug/Kg	U	YES															
Aldrin	500		ug/Kg	U	YES															
Aldrin	500		ug/Kg	U	YES															
alpha-BHC	53.5		ug/Kg	J	YES	J					J									
alpha-BHC	53.5		ug/Kg	J	YES	J					J									
alpha-Chlordane	500		ug/Kg	U	YES	R					R									
alpha-Chlordane	500		ug/Kg	U	YES	R					R									
beta-BHC	500		ug/Kg	U	YES															
beta-BHC	500		ug/Kg	U	YES															
Chlordane	1670		ug/Kg	U	YES															
Chlordane	1670		ug/Kg	U	YES															
delta-BHC	61.3		ug/Kg	J	YES															
delta-BHC	61.3		ug/Kg	J	YES															
Dieldrin	500		ug/Kg	U	YES															
Dieldrin	500		ug/Kg	U	YES															
Endosulfan I	500		ug/Kg	U	YES															
Endosulfan I	500		ug/Kg	U	YES															
Endosulfan II	500		ug/Kg	U	YES															
Endosulfan II	500		ug/Kg	U	YES															
Endosulfan sulfate	500		ug/Kg	U	YES															
Endosulfan sulfate	500		ug/Kg	U	YES															

Project Number and Name: 1x2 - 11-032E Carroil Agent Orange

Library Used: CampCarroll

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* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

5830

Sample Qualification Report (All Analytes)

Client Sample ID : E11-124-S3
 Sample Date : 07/13/2011
 Lab Sample ID: 31101872012

Lab Report Batch : 31101872
 Analysis Type: DL

Lab ID : SGSW
 Sample Matrix : SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8081																				
Dilution: 50																				
Endrin	500		ug/Kg	U	YES															
Endrin	500		ug/Kg	U	YES															
Endrin aldehyde	500		ug/Kg	U	YES															
Endrin aldehyde	500		ug/Kg	U	YES															
Endrin ketone	500		ug/Kg	U	YES															
Endrin ketone	500		ug/Kg	U	YES															
gamma-BHC (Lindane)	1130		ug/Kg		YES	J					J									
gamma-BHC (Lindane)	1130		ug/Kg		YES	J					J									
gamma-Chlordane	500		ug/Kg	U	YES															
gamma-Chlordane	500		ug/Kg	U	YES															
Heptachlor	500		ug/Kg	U	YES															
Heptachlor	500		ug/Kg	U	YES															
Heptachlor epoxide	500		ug/Kg	U	YES															
Heptachlor epoxide	500		ug/Kg	U	YES															
Methoxychlor	500		ug/Kg	U	YES															
Methoxychlor	500		ug/Kg	U	YES															
Toxaphene	1670		ug/Kg	U	YES															
Toxaphene	1670		ug/Kg	U	YES															

Project Number and Name: 11-032E Carroll Agent Orange

Library Used: CampCarroll

ADR 8.2

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* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

5831

Sample Qualification Report (All Analytes)

Client Sample ID : E11-124-S3
 Sample Date : 07/13/2011
 Lab Sample ID: 31101872012

Lab Report Batch : 31101872
 Analysis Type: RES

Lab ID : SGSW
 Sample Matrix : SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 6010C																				
Dilution: 1																				
Arsenic	1.31		mg/kg		YES															
Arsenic	1.31		mg/kg		YES															
Barium	73.8		mg/kg		YES															
Barium	73.8		mg/kg		YES															
Cadmium	0.564		mg/kg		YES															
Cadmium	0.564		mg/kg		YES															
Chromium	5.70		mg/kg		YES	J						J								
Chromium	5.70		mg/kg		YES	J						J								
Lead	5.63		mg/kg		YES	J						J								
Lead	5.63		mg/kg		YES	J						J								
Selenium	1.99		mg/kg	U	YES															
Selenium	1.99		mg/kg	U	YES															
Silver	0.996		mg/kg	U	YES															
Silver	0.996		mg/kg	U	YES															
Analysis Method : 7471B																				
Dilution: 1																				
Mercury	0.0192		mg/kg	U	YES															
Analysis Method : 8151																				
Dilution: 1																				
2,4,5-T	0.0169		mg/kg	U	YES															
2,4,5-TP (Silvex)	0.0169		mg/kg	U	YES															
2,4-D	0.0169		mg/kg	U	YES															
2,4-DB	0.0169		mg/kg	U	YES															
Dicamba	0.0169		mg/kg	U	YES															
Analysis Method : 8260B																				
Dilution: 1																				
1,1,1,2-Tetrachloroethane	4.84		ug/Kg	U	YES															
1,1,1-Trichloroethane	4.84		ug/Kg	U	YES															
1,1,2,2-Tetrachloroethane	4.84		ug/Kg	U	YES															
1,1,2-Trichloroethane	4.84		ug/Kg	U	YES															

Project Number and Name: 11-032E Carroll Agent Orange

Library Used: CampCarroll

ADR 8.2

Report Date: 9/6/2011 08:59

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* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

5832

Sample Qualification Report (All Analytes)

Client Sample ID : E11-124-S3
 Sample Date : 07/13/2011
 Lab Sample ID: 31101872012

Lab Report Batch : 31101872
 Analysis Type: RES

Lab ID : SGSW
 Sample Matrix : SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8260B																				
Dilution: 1																				
1,1-Dichloroethane	4.84		ug/Kg	U	YES															
1,1-Dichloroethene	4.84		ug/Kg	U	YES															
1,1-Dichloropropene	4.84		ug/Kg	U	YES															
1,2,3-Trichlorobenzene	4.84		ug/Kg	U	YES															
1,2,3-Trichloropropane	4.84		ug/Kg	U	YES															
1,2,4-Trichlorobenzene	4.84		ug/Kg	U	YES	UJ					UJ									
1,2,4-Timethylbenzene	4.84		ug/Kg	U	YES															
1,2-Dibromo-3-chloropropane	29.0		ug/Kg	U	YES															
1,2-Dibromoethane	4.84		ug/Kg	U	YES															
1,2-Dichlorobenzene	4.84		ug/Kg	U	YES															
1,2-Dichloroethane	4.84		ug/Kg	U	YES															
1,2-Dichloropropane	4.84		ug/Kg	U	YES															
1,3,5-Trimethylbenzene	4.84		ug/Kg	U	YES															
1,3-Dichlorobenzene	4.84		ug/Kg	U	YES															
1,3-Dichloropropane	4.84		ug/Kg	U	YES															
1,4-Dichlorobenzene	4.84		ug/Kg	U	YES															
2,2-Dichloropropane	4.84		ug/Kg	U	YES															
2-Butanone	24.2		ug/Kg	U	YES															
2-Chlorotoluene	4.84		ug/Kg	U	YES															
2-Hexanone	12.1		ug/Kg	U	YES															
4-Chlorotoluene	4.84		ug/Kg	U	YES															
4-Isopropyltoluene	4.84		ug/Kg	U	YES															
4-Methyl-2-pentanone	12.1		ug/Kg	U	YES															
Acetone	10.8		ug/Kg	J	YES															
Benzene	4.84		ug/Kg	U	YES															
Bromobenzene	4.84		ug/Kg	U	YES															

Project Number and Name: 11-032E Carroll Agent Orange

Library Used: CampCarroll

ADR 8.2

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* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

5833

Sample Qualification Report (All Analytes)

Client Sample ID : E11-124-S3

Lab Report Batch : 31101872

Lab ID : SGSW

Sample Date : 07/13/2011

Analysis Type: RES

Sample Matrix : SO

Lab Sample ID: 31101872012

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty/ Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV/ CCV
Analysis Method : 8260B																				
Dilution: 1																				
Bromochloromethane	4.84		ug/Kg	U	YES															
Bromodichloromethane	4.84		ug/Kg	U	YES															
Bromoform	4.84		ug/Kg	U	YES															
Bromomethane	4.84		ug/Kg	U	YES															
Carbon disulfide	4.84		ug/Kg	U	YES															
Carbon tetrachloride	4.84		ug/Kg	U	YES															
Chlorobenzene	4.84		ug/Kg	U	YES															
Chloroethane	4.84		ug/Kg	U	YES															
Chloroform	4.84		ug/Kg	U	YES															
Chloromethane	4.84		ug/Kg	U	YES															
cis-1,2-Dichloroethene	4.84		ug/Kg	U	YES															
cis-1,3-Dichloropropene	4.84		ug/Kg	U	YES															
Dibromochloromethane	4.84		ug/Kg	U	YES															
Dibromomethane	4.84		ug/Kg	U	YES															
Dichlorodifluoromethane	4.84		ug/Kg	U	YES															
Ethyl Benzene	4.84		ug/Kg	U	YES															
Hexachlorobutadiene	4.84		ug/Kg	U	YES															
Isopropylbenzene (Cumene)	4.84		ug/Kg	U	YES															
m,p-Xylene	9.68		ug/Kg	U	YES															
Methyl iodide	4.84		ug/Kg	U	YES															
Methylene chloride	1.50		ug/Kg	J	YES															
Naphthalene	4.84		ug/Kg	U	YES															
n-Butylbenzene	4.84		ug/Kg	U	YES															
n-Propylbenzene	4.84		ug/Kg	U	YES															
o-Xylene	4.84		ug/Kg	U	YES															
sec-Butylbenzene	4.84		ug/Kg	U	YES															

Project Number and Name: 11-032E Carroll Agent Orange

Library Used: CampCarroll

ADR 8.2

Report Date: 9/6/2011 08:59

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* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

5834

Sample Qualification Report (All Analytes)

Client Sample ID : E11-124-S3
 Sample Date : 07/13/2011
 Lab Sample ID : 31101872012

Lab Report Batch : 31101872
 Analysis Type: RES

Lab ID : SGSW
 Sample Matrix : SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8260B																				
Dilution: 1																				
Styrene	4.84		ug/Kg	U	YES	UJ						UJ								
tert-Butyl methyl ether (MTBE)	4.84		ug/Kg	U	YES															
tert-Butylbenzene	4.84		ug/Kg	U	YES															
Tetrachloroethene	1.80		ug/Kg	J	YES															
Toluene	4.84		ug/Kg	U	YES															
trans-1,2-Dichloroethene	4.84		ug/Kg	U	YES															
trans-1,3-Dichloropropene	4.84		ug/Kg	U	YES															
trans-1,4-Dichloro-2-butene	24.2		ug/Kg	U	YES															
Trichloroethene	4.84		ug/Kg	U	YES															
Trichlorofluoromethane	4.84		ug/Kg	U	YES															
Vinyl chloride	4.84		ug/Kg	U	YES															
Analysis Method : 8270D																				
Dilution: 1																				
1,2,4-Trichlorobenzene	338		ug/Kg	U	YES															
1,2-Dichlorobenzene	338		ug/Kg	U	YES															
1,3-Dichlorobenzene	338		ug/Kg	U	YES															
1,4-Dichlorobenzene	338		ug/Kg	U	YES															
2,4,5-Trichlorophenol	338		ug/Kg	U	YES															
2,4,6-Trichlorophenol	338		ug/Kg	U	YES															
2,4-Dichlorophenol	338		ug/Kg	U	YES															
2,4-Dimethylphenol	338		ug/Kg	U	YES															
2,4-Dinitrotoluene	338		ug/Kg	U	YES															
2,6-Dinitrotoluene	338		ug/Kg	U	YES															
2-Chloronaphthalene	338		ug/Kg	U	YES															
2-Chlorophenol	338		ug/Kg	U	YES															
2-Methylnaphthalene	70.7		ug/Kg	J	YES															
2-Methylphenol	338		ug/Kg	U	YES															
2-Nitroaniline	338		ug/Kg	U	YES															

Project Number and Name: 11-032E Carroll Agent Orange

Library Used: CampCarroll

ADR 8.2

Report Date: 9/6/2011 08:59

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* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

5835

Sample Qualification Report (All Analytes)

Client Sample ID : E11-124-S3
 Sample Date : 07/13/2011
 Lab Sample ID: 31101872012

Lab Report Batch : 31101872
 Analysis Type: RES

Lab ID : SGSW
 Sample Matrix : SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8270D																				
Dilution: 1																				
2-Nitrophenol	338		ug/Kg	U	YES															
3 and/or 4-Methylphenol	338		ug/Kg	U	YES															
3-Nitroaniline	338		ug/Kg	U	YES															
4-Bromophenyl phenyl ether	338		ug/Kg	U	YES															
4-Chloro-3-methylphenol	338		ug/Kg	U	YES															
4-Chloroaniline	338		ug/Kg	U	YES															
4-Chlorophenyl phenyl ether	338		ug/Kg	U	YES															
4-Nitroaniline	338		ug/Kg	U	YES															
4-Nitrophenol	338		ug/Kg	U	YES															
Acenaphthene	338		ug/Kg	U	YES															
Acenaphthylene	338		ug/Kg	U	YES															
Anthracene	338		ug/Kg	U	YES															
Benzo(a)anthracene	338		ug/Kg	U	YES															
Benzo(a)pyrene	338		ug/Kg	U	YES															
Benzo(b)fluoranthene	338		ug/Kg	U	YES															
Benzo(g,h,i)perylene	338		ug/Kg	U	YES															
Benzo(k)fluoranthene	338		ug/Kg	U	YES															
Bis(2-Chloroethoxy)methane	338		ug/Kg	U	YES															
Bis(2-Chloroethyl)ether	338		ug/Kg	U	YES															
Bis(2-Chloroisopropyl)ether	338		ug/Kg	U	YES															
Bis(2-Ethylhexyl)phthalate	338		ug/Kg	U	YES															
Butyl benzyl phthalate	338		ug/Kg	U	YES															
Chrysene	338		ug/Kg	U	YES															
Dibenz(a,h)anthracene	338		ug/Kg	U	YES															
Dibenzofuran	338		ug/Kg	U	YES															
Diethyl phthalate	338		ug/Kg	U	YES															

Project Number and Name: 11-032E Carroll Agent Orange

Library Used: CampCarroll

ADR 8.2

Report Date: 9/6/2011 08:59

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* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

5836

Sample Qualification Report (All Analytes)

Client Sample ID : E11-124-S3
 Sample Date : 07/13/2011
 Lab Sample ID: 31101872012

Lab Report Batch : 31101872
 Analysis Type: RES

Lab ID : SGSW
 Sample Matrix : SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8270D																				
Dilution: 1																				
Dimethyl phthalate	338		ug/Kg	U	YES															
Di-n-butyl phthalate	338		ug/Kg	U	YES															
Di-n-octyl phthalate	338		ug/Kg	U	YES	UJ					UJ									
Fluoranthene	338		ug/Kg	U	YES															
Fluorene	338		ug/Kg	U	YES															
Hexachlorobenzene	338		ug/Kg	U	YES															
Hexachlorobutadiene	338		ug/Kg	U	YES															
Hexachlorocyclopentadiene	338		ug/Kg	U	YES															
Hexachloroethane	338		ug/Kg	U	YES															
Indeno(1,2,3-cd)pyrene	338		ug/Kg	U	YES															
Isophorone	338		ug/Kg	U	YES															
Naphthalene	338		ug/Kg	U	YES															
Nitrobenzene	338		ug/Kg	U	YES															
n-Nitrosodi-n-propylamine	338		ug/Kg	U	YES															
Pentachlorophenol	338		ug/Kg	U	YES															
Phenanthrene	338		ug/Kg	U	YES															
Phenol	338		ug/Kg	U	YES															
Pyrene	338		ug/Kg	U	YES															

Project Number and Name: 11-032E Carroll Agent Orange

Library Used: CampCarroll

ADR 8.2

Report Date: 9/6/2011 08:59

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* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

5837

Sample Qualification Report (All Analytes)

Client Sample ID : E11-124-S4
 Sample Date : 07/13/2011
 Lab Sample ID: 31101872013

Lab Report Batch : 31101872
 Analysis Type: DL

Lab ID : SGSW
 Sample Matrix : SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8081																				
Dilution: 50																				
4,4'-DDD	489		ug/Kg	U P	YES															
4,4'-DDD	489		ug/Kg	U P	YES															
4,4'-DDE	489		ug/Kg	U	YES															
4,4'-DDE	489		ug/Kg	U	YES															
4,4'-DDT	489		ug/Kg	U	YES															
4,4'-DDT	489		ug/Kg	U	YES															
Aldrin	489		ug/Kg	U	YES															
Aldrin	489		ug/Kg	U	YES															
alpha-BHC	22.5		ug/Kg	J P	YES	J					J									
alpha-BHC	22.5		ug/Kg	J P	YES	J					J									
alpha-Chlordane	489		ug/Kg	U	YES	R					R									
alpha-Chlordane	489		ug/Kg	U	YES	R					R									
beta-BHC	489		ug/Kg	U	YES															
beta-BHC	489		ug/Kg	U	YES															
Chlordane	1630		ug/Kg	U	YES															
Chlordane	1630		ug/Kg	U	YES															
delta-BHC	43.3		ug/Kg	J	YES															
delta-BHC	43.3		ug/Kg	J	YES															
Dieldrin	489		ug/Kg	U	YES															
Dieldrin	489		ug/Kg	U	YES															
Endosulfan I	489		ug/Kg	U	YES															
Endosulfan I	489		ug/Kg	U	YES															
Endosulfan II	489		ug/Kg	U	YES															
Endosulfan II	489		ug/Kg	U	YES															
Endosulfan sulfate	489		ug/Kg	U	YES															
Endosulfan sulfate	489		ug/Kg	U	YES															

Project Number and Name: 11-032E Carroll Agent Orange

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* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

5838

Sample Qualification Report (All Analytes)

Client Sample ID : E11-124-S4
 Sample Date : 07/13/2011
 Lab Sample ID: 31101872013

Lab Report Batch : 31101872
 Analysis Type: DL

Lab ID : SGSW
 Sample Matrix : SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8081																				
Dilution: 50																				
Endrin	489		ug/Kg	U	YES															
Endrin	489		ug/Kg	U	YES															
Endrin aldehyde	489		ug/Kg	U	YES															
Endrin aldehyde	489		ug/Kg	U	YES															
Endrin ketone	489		ug/Kg	U	YES															
Endrin ketone	489		ug/Kg	U	YES															
gamma-BHC (Lindane)	728		ug/Kg		YES	J					J									
gamma-BHC (Lindane)	728		ug/Kg		YES	J					J									
gamma-Chlordane	489		ug/Kg	U	YES															
gamma-Chlordane	489		ug/Kg	U	YES															
Heptachlor	489		ug/Kg	U	YES															
Heptachlor	489		ug/Kg	U	YES															
Heptachlor epoxide	489		ug/Kg	U	YES															
Heptachlor epoxide	489		ug/Kg	U	YES															
Methoxychlor	489		ug/Kg	U	YES															
Methoxychlor	489		ug/Kg	U	YES															
Toxaphene	1630		ug/Kg	U	YES															
Toxaphene	1630		ug/Kg	U	YES															

Project Number and Name: 11-032E Carroll Agent Orange

Library Used: CampCarroll

ADR 8.2

Report Date: 9/6/2011 08:59

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* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

5839

Sample Qualification Report (All Analytes)

Client Sample ID : E11-124-S4
 Sample Date : 07/13/2011
 Lab Sample ID: 31101872013

Lab Report Batch : 31101872
 Analysis Type: RES

Lab ID : SGSW
 Sample Matrix : SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 6010C																				
Dilution: 1																				
Arsenic	1.79		mg/kg		YES															
Barium	63.8		mg/kg		YES															
Cadmium	0.508		mg/kg		YES															
Chromium	6.06		mg/kg		YES	J						J								
Lead	6.44		mg/kg		YES	J						J								
Selenium	0.656		mg/kg	J	YES															
Silver	0.997		mg/kg	U	YES															
Analysis Method : 7471B																				
Dilution: 1																				
Mercury	0.0199		mg/kg	U	YES															
Analysis Method : 8151																				
Dilution: 1																				
2,4,5-T	0.0162		mg/kg	U	YES															
2,4,5-TP (Silvex)	0.0162		mg/kg	U	YES															
2,4-D	0.0162		mg/kg	U	YES															
2,4-DB	0.0162		mg/kg	U	YES															
Dicamba	0.0162		mg/kg	U	YES															
Analysis Method : 8260B																				
Dilution: 1																				
1,1,1,2-Tetrachloroethane	4.50		ug/Kg	U	YES															
1,1,1-Trichloroethane	4.50		ug/Kg	U	YES															
1,1,2,2-Tetrachloroethane	4.50		ug/Kg	U	YES															
1,1,2-Trichloroethane	4.50		ug/Kg	U	YES															
1,1-Dichloroethane	4.50		ug/Kg	U	YES															
1,1-Dichloroethene	4.50		ug/Kg	U	YES															
1,1-Dichloropropene	4.50		ug/Kg	U	YES															
1,2,3-Trichlorobenzene	4.50		ug/Kg	U	YES															
1,2,3-Trichloropropane	4.50		ug/Kg	U	YES															
1,2,4-Trichlorobenzene	4.50		ug/Kg	U	YES	UJ						UJ								
1,2,4-Trimethylbenzene	4.50		ug/Kg	U	YES															

Project Number and Name: 11-032E Carroll Agent Orange

Library Used: CampCarroll

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* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

5840

Sample Qualification Report (All Analytes)

Client Sample ID : E11-124-S4
 Sample Date : 07/13/2011
 Lab Sample ID: 31101872013

Lab Report Batch : 31101872
 Analysis Type: RES

Lab ID : SGSW
 Sample Matrix : SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8260B																				
Dilution: 1																				
1,2-Dibromo-3-chloropropane	27.0		ug/Kg	U	YES															
1,2-Dibromoethane	4.50		ug/Kg	U	YES															
1,2-Dichlorobenzene	4.50		ug/Kg	U	YES															
1,2-Dichloroethane	4.50		ug/Kg	U	YES															
1,2-Dichloropropane	4.50		ug/Kg	U	YES															
1,3,5-Trimethylbenzene	4.50		ug/Kg	U	YES															
1,3-Dichlorobenzene	4.50		ug/Kg	U	YES															
1,3-Dichloropropane	4.50		ug/Kg	U	YES															
1,4-Dichlorobenzene	4.50		ug/Kg	U	YES															
2,2-Dichloropropane	4.50		ug/Kg	U	YES															
2-Butanone	22.5		ug/Kg	U	YES															
2-Chlorotoluene	4.50		ug/Kg	U	YES															
2-Hexanone	11.3		ug/Kg	U	YES															
4-Chlorotoluene	4.50		ug/Kg	U	YES															
4-Isopropyltoluene	4.50		ug/Kg	U	YES															
4-Methyl-2-pentanone	11.3		ug/Kg	U	YES															
Acetone	45.0		ug/Kg	U	YES															
Benzene	4.50		ug/Kg	U	YES															
Bromobenzene	4.50		ug/Kg	U	YES															
Bromochloromethane	4.50		ug/Kg	U	YES															
Bromodichloromethane	4.50		ug/Kg	U	YES															
Bromoforn	4.50		ug/Kg	U	YES															
Bromomethane	4.50		ug/Kg	U	YES															
Carbon disulfide	4.50		ug/Kg	U	YES															
Carbon tetrachloride	4.50		ug/Kg	U	YES															
Chlorobenzene	4.50		ug/Kg	U	YES															

Project Number and Name: 11-032E Carroll Agent Orange

Library Used: CampCarroll

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* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

5841

Sample Qualification Report (All Analytes)

Client Sample ID : E11-124-S4

Lab Report Batch : 31101872

Lab ID : SGSW

Sample Date : 07/13/2011

Analysis Type: RES

Sample Matrix : SO

Lab Sample ID: 31101872013

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/DIS	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8260B																				
Dilution: 1																				
Chloroethane	4.50		ug/Kg	U	YES															
Chloroform	4.50		ug/Kg	U	YES															
Chloromethane	4.50		ug/Kg	U	YES															
cis-1,2-Dichloroethene	4.50		ug/Kg	U	YES															
cis-1,3-Dichloropropene	4.50		ug/Kg	U	YES															
Dibromochloromethane	4.50		ug/Kg	U	YES															
Dibromomethane	4.50		ug/Kg	U	YES															
Dichlorodifluoromethane	4.50		ug/Kg	U	YES															
Ethyl Benzene	4.50		ug/Kg	U	YES															
Hexachlorobutadiene	4.50		ug/Kg	U	YES															
Isopropylbenzene (Cumene)	4.50		ug/Kg	U	YES															
m,p-Xylene	9.00		ug/Kg	U	YES															
Methyl iodide	4.50		ug/Kg	U	YES															
Methylene chloride	18.0		ug/Kg	U	YES															
Naphthalene	4.50		ug/Kg	U	YES															
n-Butylbenzene	4.50		ug/Kg	U	YES															
n-Propylbenzene	4.50		ug/Kg	U	YES															
o-Xylene	4.50		ug/Kg	U	YES															
sec-Butylbenzene	4.50		ug/Kg	U	YES															
Styrene	4.50		ug/Kg	U	YES	UJ					UJ									
tert-Butyl methyl ether (MTBE)	4.50		ug/Kg	U	YES															
tert-Butylbenzene	4.50		ug/Kg	U	YES															
Tetrachloroethene	4.50		ug/Kg	U	YES															
Toluene	0.999		ug/Kg	J	YES															
trans-1,2-Dichloroethene	4.50		ug/Kg	U	YES															
trans-1,3-Dichloropropene	4.50		ug/Kg	U	YES															

Project Number and Name: 11-032E Carroll Agent Orange

Library Used: CampCarroll

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* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

5842

Sample Qualification Report (All Analytes)

Client Sample ID : E11-124-S4

Lab Report Batch : 31101872

Lab ID : SGSW

Sample Date : 07/13/2011

Analysis Type: RES

Sample Matrix : SO

Lab Sample ID: 31101872013

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist To/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8260B																				
Dilution: 1																				
trans-1,4-Dichloro-2-butene	22.5		ug/Kg	U	YES															
Trichloroethene	4.50		ug/Kg	U	YES															
Trichlorofluoromethane	4.50		ug/Kg	U	YES															
Vinyl chloride	4.50		ug/Kg	U	YES															
Analysis Method : 8270D																				
Dilution: 1																				
1,2,4-Trichlorobenzene	318		ug/Kg	U	YES															
1,2-Dichlorobenzene	318		ug/Kg	U	YES															
1,3-Dichlorobenzene	318		ug/Kg	U	YES															
1,4-Dichlorobenzene	318		ug/Kg	U	YES															
2,4,5-Trichlorophenol	318		ug/Kg	U	YES															
2,4,6-Trichlorophenol	318		ug/Kg	U	YES															
2,4-Dichlorophenol	318		ug/Kg	U	YES															
2,4-Dimethylphenol	318		ug/Kg	U	YES															
2,4-Dinitrotoluene	318		ug/Kg	U	YES															
2,6-Dinitrotoluene	318		ug/Kg	U	YES															
2-Chloronaphthalene	318		ug/Kg	U	YES															
2-Chlorophenol	318		ug/Kg	U	YES															
2-Methylnaphthalene	53.9		ug/Kg	J	YES															
2-Methylphenol	318		ug/Kg	U	YES															
2-Nitroaniline	318		ug/Kg	U	YES															
2-Nitrophenol	318		ug/Kg	U	YES															
3 and/or 4-Methylphenol	318		ug/Kg	U	YES															
3-Nitroaniline	318		ug/Kg	U	YES															
4-Bromophenyl phenyl ether	318		ug/Kg	U	YES															
4-Chloro-3-methylphenol	318		ug/Kg	U	YES															
4-Chloroaniline	318		ug/Kg	U	YES															
4-Chlorophenyl phenyl ether	318		ug/Kg	U	YES															

Project Number and Name: T-11-032E Carroll Agent Orange

Library Used: CampCarroll

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* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

5843

Sample Qualification Report (All Analytes)

Client Sample ID : E11-124-S4
 Sample Date : 07/13/2011
 Lab Sample ID: 31101872013

Lab Report Batch : 31101872
 Analysis Type: RES

Lab ID : SGSW
 Sample Matrix : SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8270D																				
Dilution: 1																				
4-Nitroaniline	318		ug/Kg	U	YES															
4-Nitrophenol	318		ug/Kg	U	YES															
Acenaphthene	318		ug/Kg	U	YES															
Acenaphthylene	318		ug/Kg	U	YES															
Anthracene	318		ug/Kg	U	YES															
Benzo(a)anthracene	318		ug/Kg	U	YES															
Benzo(a)pyrene	318		ug/Kg	U	YES															
Benzo(b)fluoranthene	318		ug/Kg	U	YES															
Benzo(g,h,i)perylene	318		ug/Kg	U	YES															
Benzo(k)fluoranthene	318		ug/Kg	U	YES															
Bis(2-Chloroethoxy)methane	318		ug/Kg	U	YES															
Bis(2-Chloroethyl)ether	318		ug/Kg	U	YES															
Bis(2-Chloroisopropyl)ether	318		ug/Kg	U	YES															
Bis(2-Ethylhexyl)phthalate	53.9		ug/Kg	J	YES															
Butyl benzyl phthalate	318		ug/Kg	U	YES															
Chrysene	318		ug/Kg	U	YES															
Dibenz(a,h)anthracene	318		ug/Kg	U	YES															
Dibenzofuran	318		ug/Kg	U	YES															
Diethyl phthalate	318		ug/Kg	U	YES															
Dimethyl phthalate	318		ug/Kg	U	YES															
Di-n-butyl phthalate	318		ug/Kg	U	YES															
Di-n-octyl phthalate	318		ug/Kg	U	YES	UJ					UJ									
Fluoranthene	318		ug/Kg	U	YES															
Fluorene	318		ug/Kg	U	YES															
Hexachlorobenzene	318		ug/Kg	U	YES															
Hexachlorobutadiene	318		ug/Kg	U	YES															

Project Number and Name: 11-032E Carroll Agent Orange

Library Used: CampCarroll

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* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

5844

Sample Qualification Report (All Analytes)

Client Sample ID : E11-124-S4
 Sample Date : 07/13/2011
 Lab Sample ID: 31101872013

Lab Report Batch : 31101872
 Analysis Type: RES

Lab ID : SGSW
 Sample Matrix : SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8270D																				
Dilution: 1																				
Hexachlorocyclopentadiene	318		ug/Kg	U	YES															
Hexachloroethane	318		ug/Kg	U	YES															
Indeno(1,2,3-cd)pyrene	318		ug/Kg	U	YES															
Isophorone	318		ug/Kg	U	YES															
Naphthalene	318		ug/Kg	U	YES															
Nitrobenzene	318		ug/Kg	U	YES															
n-Nitrosodi-n-propylamine	318		ug/Kg	U	YES															
Pentachlorophenol	318		ug/Kg	U	YES															
Phenanthrene	318		ug/Kg	U	YES															
Phenol	318		ug/Kg	U	YES															
Pyrene	318		ug/Kg	U	YES															

Project Number and Name: 11-032E Carroll Agent Orange

Library Used: CampCarroll

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* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

5845

Sample Qualification Report (All Analytes)

Client Sample ID : Trip Blank (0950)

Lab Report Batch : 31101872

Lab ID : SGSW

Sample Date : 07/12/2011

Analysis Type: RES

Sample Matrix : SO

Lab Sample ID: 31101872020

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8260B																				
Dilution: 1																				
1,1,1,2-Tetrachloroethane	1.00		ug/Kg	U	YES															
1,1,1-Trichloroethane	1.00		ug/Kg	U	YES															
1,1,2,2-Tetrachloroethane	1.00		ug/Kg	U	YES															
1,1,2-Trichloroethane	1.00		ug/Kg	U	YES															
1,1-Dichloroethane	1.00		ug/Kg	U	YES															
1,1-Dichloroethene	1.00		ug/Kg	U	YES															
1,1-Dichloropropene	1.00		ug/Kg	U	YES															
1,2,3-Trichlorobenzene	1.00		ug/Kg	U	YES															
1,2,3-Trichloropropane	1.00		ug/Kg	U	YES															
1,2,4-Trichlorobenzene	1.00		ug/Kg	U	YES															
1,2,4-Trimethylbenzene	1.00		ug/Kg	U	YES															
1,2-Dibromo-3-chloropropane	5.00		ug/Kg	U	YES															
1,2-Dibromoethane	1.00		ug/Kg	U	YES															
1,2-Dichlorobenzene	1.00		ug/Kg	U	YES															
1,2-Dichloroethane	1.00		ug/Kg	U	YES															
1,2-Dichloropropane	1.00		ug/Kg	U	YES															
1,3,5-Trimethylbenzene	1.00		ug/Kg	U	YES															
1,3-Dichlorobenzene	1.00		ug/Kg	U	YES															
1,3-Dichloropropane	1.00		ug/Kg	U	YES															
1,4-Dichlorobenzene	1.00		ug/Kg	U	YES															
2,2-Dichloropropane	1.00		ug/Kg	U	YES															
2-Butanone	31.9		ug/Kg		YES															
2-Chlorotoluene	1.00		ug/Kg	U	YES															
2-Hexanone	5.00		ug/Kg	U	YES															
4-Chlorotoluene	1.00		ug/Kg	U	YES															
4-Isopropyltoluene	1.00		ug/Kg	U	YES															

Project Number and Name: 11-032E Carroll Agent Orange

Library Used: CampCarroll

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* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

5846

Sample Qualification Report (All Analytes)

Client Sample ID : Trip Blank (0950)
 Sample Date : 07/12/2011
 Lab Sample ID: 31101872020

Lab Report Batch : 31101872
 Analysis Type: RES

Lab ID : SGSW
 Sample Matrix : SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8260B																				
Dilution: 1																				
4-Methyl-2-pentanone	5.00		ug/Kg	U	YES															
Acetone	8.64		ug/Kg	J	YES															
Benzene	1.00		ug/Kg	U	YES															
Bromobenzene	1.00		ug/Kg	U	YES															
Bromochloromethane	1.00		ug/Kg	U	YES															
Bromodichloromethane	1.00		ug/Kg	U	YES															
Bromoform	1.00		ug/Kg	U	YES															
Bromomethane	1.00		ug/Kg	U	YES															
Carbon disulfide	1.00		ug/Kg	U	YES															
Carbon tetrachloride	1.00		ug/Kg	U	YES															
Chlorobenzene	1.00		ug/Kg	U	YES															
Chloroethane	1.00		ug/Kg	U	YES															
Chloroform	1.00		ug/Kg	U	YES															
Chloromethane	1.00		ug/Kg	U	YES															
cis-1,2-Dichloroethene	1.00		ug/Kg	U	YES															
cis-1,3-Dichloropropene	1.00		ug/Kg	U	YES															
Dibromochloromethane	1.00		ug/Kg	U	YES															
Dibromomethane	1.00		ug/Kg	U	YES															
Dichlorodifluoromethane	5.00		ug/Kg	U	YES															
Ethyl Benzene	1.00		ug/Kg	U	YES															
Hexachlorobutadiene	1.00		ug/Kg	U	YES															
Isopropylbenzene (Cumene)	1.00		ug/Kg	U	YES															
m,p-Xylene	0.230		ug/Kg	J	YES															
Methyl iodide	1.00		ug/Kg	U	YES															
Methylene chloride	5.00		ug/Kg	U	YES															
Naphthalene	1.00		ug/Kg	U	YES															

Project Number and Name: 11-032E Carroll Agent Orange

Library Used: CampCarroll

ADR 8.2

Report Date: 9/6/2011 08:59

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* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

5847

Sample Qualification Report (All Analytes)

Client Sample ID : Trip Blank (0950)
 Sample Date : 07/12/2011
 Lab Sample ID: 31101872020

Lab Report Batch : 31101872
 Analysis Type: RES

Lab ID : SGSW
 Sample Matrix : SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Quali*	Temp	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8260B																				
Dilution: 1																				
n-Butylbenzene	1.00		ug/Kg	U		YES														
n-Propylbenzene	1.00		ug/Kg	U	YES															
o-Xylene	0.100		ug/Kg	J	YES															
sec-Butylbenzene	1.00		ug/Kg	U	YES															
Styrene	1.00		ug/Kg	U	YES															
tert-Butyl methyl ether (MTBE)	1.00		ug/Kg	U	YES															
tert-Butylbenzene	1.00		ug/Kg	U	YES															
Tetrachloroethene	1.00		ug/Kg	U	YES															
Toluene	0.300		ug/Kg	J	YES															
trans-1,2-Dichloroethene	1.00		ug/Kg	U	YES															
trans-1,3-Dichloropropene	1.00		ug/Kg	U	YES															
trans-1,4-Dichloro-2-butene	5.00		ug/Kg	U	YES															
Trichloroethene	1.00		ug/Kg	U	YES															
Trichlorofluoromethane	1.00		ug/Kg	U	YES															
Vinyl chloride	1.00		ug/Kg	U	YES															

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* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

5848

Sample Qualification Report (All Analytes)

Client Sample ID : Trip Blank (0953)
 Sample Date : 07/12/2011
 Lab Sample ID: 31101872001

Lab Report Batch : 31101872
 Analysis Type: RES

Lab ID : SGSW
 Sample Matrix : SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV	
Analysis Method : 8260B																					
Dilution: 1																					
1,1,1,2-Tetrachloroethane	1.00		ug/Kg	U	YES																
1,1,1-Trichloroethane	1.00		ug/Kg	U	YES																
1,1,2,2-Tetrachloroethane	1.00		ug/Kg	U	YES																
1,1,2-Trichloroethane	1.00		ug/Kg	U	YES																
1,1-Dichloroethane	1.00		ug/Kg	U	YES																
1,1-Dichloroethene	1.00		ug/Kg	U	YES																
1,1-Dichloropropene	1.00		ug/Kg	U	YES																
1,2,3-Trichlorobenzene	1.00		ug/Kg	U	YES																
1,2,3-Trichloropropane	1.00		ug/Kg	U	YES																
1,2,4-Trichlorobenzene	1.00		ug/Kg	U	YES																
1,2,4-Trimethylbenzene	1.00		ug/Kg	U	YES																
1,2-Dibromo-3-chloropropane	5.00		ug/Kg	U	YES																
1,2-Dibromoethane	1.00		ug/Kg	U	YES																
1,2-Dichlorobenzene	1.00		ug/Kg	U	YES																
1,2-Dichloroethane	1.00		ug/Kg	U	YES																
1,2-Dichloropropane	1.00		ug/Kg	U	YES																
1,3,5-Trimethylbenzene	1.00		ug/Kg	U	YES																
1,3-Dichlorobenzene	1.00		ug/Kg	U	YES																
1,3-Dichloropropane	1.00		ug/Kg	U	YES																
1,4-Dichlorobenzene	1.00		ug/Kg	U	YES																
2,2-Dichloropropane	1.00		ug/Kg	U	YES																
2-Butanone	31.7		ug/Kg		YES																
2-Chlorotoluene	1.00		ug/Kg	U	YES																
2-Hexanone	5.00		ug/Kg	U	YES																
4-Chlorotoluene	1.00		ug/Kg	U	YES																
4-Isopropyltoluene	1.00		ug/Kg	U	YES																

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* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

5849

Sample Qualification Report (All Analytes)

Client Sample ID : Trip Blank (0953)
 Sample Date : 07/12/2011
 Lab Sample ID: 31101872001

Lab Report Batch : 31101872
 Analysis Type: RES

Lab ID : SGSW
 Sample Matrix : SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8260B																				
Dilution: 1																				
4-Methyl-2-pentanone	5.00		ug/Kg	U	YES															
Acetone	8.24		ug/Kg	J	YES															
Benzene	1.00		ug/Kg	U	YES															
Bromobenzene	1.00		ug/Kg	U	YES															
Bromochloromethane	1.00		ug/Kg	U	YES															
Bromodichloromethane	1.00		ug/Kg	U	YES															
Bromoform	1.00		ug/Kg	U	YES															
Bromomethane	1.00		ug/Kg	U	YES															
Carbon disulfide	1.00		ug/Kg	U	YES															
Carbon tetrachloride	1.00		ug/Kg	U	YES															
Chlorobenzene	1.00		ug/Kg	U	YES															
Chloroethane	1.00		ug/Kg	U	YES															
Chloroform	1.00		ug/Kg	U	YES															
Chloromethane	1.00		ug/Kg	U	YES															
cis-1,2-Dichloroethene	1.00		ug/Kg	U	YES															
cis-1,3-Dichloropropene	1.00		ug/Kg	U	YES															
Dibromochloromethane	1.00		ug/Kg	U	YES															
Dibromomethane	1.00		ug/Kg	U	YES															
Dichlorodifluoromethane	5.00		ug/Kg	U	YES															
Ethyl Benzene	1.00		ug/Kg	U	YES															
Hexachlorobutadiene	1.00		ug/Kg	U	YES															
Isopropylbenzene (Cumene)	1.00		ug/Kg	U	YES															
m,p-Xylene	0.250		ug/Kg	J	YES															
Methyl iodide	1.00		ug/Kg	U	YES															
Methylene chloride	5.00		ug/Kg	U	YES															
Naphthalene	1.00		ug/Kg	U	YES															

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* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

5850

Sample Qualification Report (All Analytes)

Client Sample ID : Trip Blank (0953)
 Sample Date : 07/12/2011
 Lab Sample ID: 31101872001

Lab Report Batch : 31101872
 Analysis Type: RES

Lab ID : SGSW
 Sample Matrix : SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8260B																				
Dilution: 1																				
n-Butylbenzene	1.00		ug/Kg	U	YES															
n-Propylbenzene	1.00		ug/Kg	U	YES															
o-Xylene	0.0900		ug/Kg	J	YES															
sec-Butylbenzene	1.00		ug/Kg	U	YES															
Styrene	1.00		ug/Kg	U	YES															
tert-Butyl methyl ether (MTBE)	1.00		ug/Kg	U	YES															
tert-Butylbenzene	1.00		ug/Kg	U	YES															
Tetrachloroethene	1.00		ug/Kg	U	YES															
Toluene	0.360		ug/Kg	J	YES															
trans-1,2-Dichloroethene	1.00		ug/Kg	U	YES															
trans-1,3-Dichloropropene	1.00		ug/Kg	U	YES															
trans-1,4-Dichloro-2-butene	5.00		ug/Kg	U	YES															
Trichloroethene	1.00		ug/Kg	U	YES															
Trichlorofluoromethane	1.00		ug/Kg	U	YES															
Vinyl chloride	1.00		ug/Kg	U	YES															

Project Number and Name: 11-032E Carroll Agent Orange

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* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

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APPENDIX 2
Automated Data Review Qualification Scheme
and
Definition of Flags

Qualification Summary for GC/MS Methods

QUALITY CONTROL ITEM	EVALUATION	DATA QUALIFIER FLAG			SAMPLE(S) QUALIFIED
		Detects		Nondetects	
		Non Biased	Biased		
HOLDING TIMES (Extraction and Analysis)	1) Holding time exceeded by 2 times or less	J	J-	UJ	Sample
	2) Holding time exceeded by greater than 2 times	J	J-	R	
COOLER TEMPERATURE	1) > 6 and ≤10 degrees Centigrade	J	J-	UJ	All samples shipped in the affected cooler (Shipping Batch)
	2) > 10 degrees Centigrade	J	J-	R	
	3) < 2 degrees Centigrade	None	None	None	
INSTRUMENT TUNING	1) Ion abundance criteria not met	JN	JN	R	All samples associated to an initial calibration (Run Batch), if tune is associated to an initial calibration. All samples associated to a continuing calibration (Analysis Batch), if tune is associated to a continuing calibration.
INITIAL CALIBRATION	1) Average RRF < 0.05	J	J	R	All samples associated to the initial calibration (Run Batch)
	2) %RSD > 30%	J	J	UJ	
	3) $r < 0.995$	J	J	UJ	
INITIAL CALIBRATION VERIFICATION (ICV)	1) Average RRF < 0.05	J	J	R	All samples associated to the ICV (Run Batch)
	2) % Difference > +25%	J	J+	None	
	3) % Difference < -25% and ≥ -50%	J	J-	UJ	
	4) % Difference < -50%	J	J-	R	
CONTINUING CALIBRATION VERIFICATION (CCV)	1) Average RRF < 0.05	J	J	R	All samples associated to the CCV (Analysis Batch)
	2) % Difference > +25%	J	J+	None	
	3) % Difference < -25% and ≥ -50%	J	J-	UJ	
	4) % Difference < -50%	J	J-	R	

Qualification Summary for GC/MS Methods

QUALITY CONTROL ITEM	EVALUATION	DATA QUALIFIER FLAG			SAMPLE(S) QUALIFIED
		Detects		Nondetects	
		Non Biased	Biased		
METHOD BLANK CONTAMINATION	1) Common lab contaminant and tentatively identified compound (TIC) results less than or equal to 10 times blank contamination	U	U	None	All samples in the same Preparation Batch as the method blank
	2) Other compound results less than or equal to 5 times blank contamination	U	U	None	
SURROGATE RECOVERY	1) % Recovery < CL but \geq 10%	J	J-	UJ	Sample
	2) % Recovery < 10%	J	J-	R	
	3) % Recovery > CL	J	J+	None	
	Note: For semivolatile analysis, two or more surrogates in a fraction must be out of criteria for qualification unless recovery < 10%.				
MATRIX SPIKE RECOVERY	1) % Recovery < CL but \geq 10%	J	J-	UJ	Parent Sample
	2) % Recovery < 10%	J	J-	R	
	3) % Recovery > CL	J	J+	None	
	4) RPD > CL	J	J	UJ	
LABORATORY CONTROL SAMPLE RECOVERY	1) % Recovery < CL but \geq 10%	J	J-	UJ	All samples in the same Preparation Batch as the LCS
	2) % Recovery < 10%	J	J-	R	
	3) % Recovery > CL	J	J+	None	
	4) RPD > CL	J	J	UJ	
REPORTING LIMITS	1) Result greater than the project-reporting limit and lab qualifier = U	N/A	N/A	None	Sample (noted on outlier report)
	2) Result less than the project-reporting limit where lab qualifier is not U.	J	J	N/A.	
FIELD DUPLICATES	1) RPD > CL	None.	None	None	Noted in outlier report

Qualification Summary for GC/MS Methods

QUALITY CONTROL ITEM	EVALUATION	DATA QUALIFIER FLAG			SAMPLE(S) QUALIFIED
		Detects		Nondetects	
		Non Biased	Biased		
FIELD BLANKS EQUIPMENT BLANKS	1) Common lab contaminants and tentatively identified compound (TIC) results less than or equal to 10 times blank contamination	U	U	None	All samples in the same sampling event
	2) Other lab contaminant results less than or equal to 5 times blank contamination	U	U	None	
TRIP BLANKS	1) Common lab contaminants and tentatively identified compound (TIC) results less than or equal to 10 times blank contamination	U	U	None	All samples in the same Shipping Batch as the trip blank
	2) Other lab contaminant results less than or equal to 5 times blank contamination	U	U	None	

Qualification Summary for GC Methods

QUALITY CONTROL ITEM	EVALUATION	DATA QUALIFIER FLAG			SAMPLE(S) QUALIFIED
		Detects		Nondetects	
		Non Biased	Biased		
HOLDING TIMES (Extraction and Analysis)	1) Holding time exceeded by 2 times or less	J	J-	UJ	Sample
	2) Holding time exceeded by greater than 2 times	J	J-	R	
COOLER TEMPERATURE	1) > 6 and ≤10 degrees Centigrade	J	J-	UJ	All samples shipped in the affected cooler. (Shipping Batch)
	2) >10 degrees Centigrade	J	J-	R	
	3) < 2 degrees Centigrade	None	None	None	
INITIAL CALIBRATION	1) %RSD > 20%	J	J	UJ	All samples associated with initial calibration (Run Batch)
	2) $r < 0.995$	J	J	UJ	
INITIAL CALIBRATION VERIFICATION (ICV)	1) % Difference > +25%	J	J+	None	All samples associated with initial calibration verification (Run Batch)
	2) % Difference < -25% and ≥ -50%	J	J-	UJ	
	3) % Difference < -50%	J	J-	R	
CONTINUING CALIBRATION (CV)	1) % Difference > +15%	J	J+	None	All samples associated with continuing calibration (Analysis Batch)
	2) % Difference < -15% and ≥ -50%	J	J-	UJ	
	3) % Difference < -50%	J	J-	R	
METHOD BLANK CONTAMINATION	1) Common lab contaminant results less than or equal to 10 times the blank contamination	U	U	None	All samples in the same Preparation Batch
	2) Other compound results less than or equal to 5 times the blank contamination	U	U	None	
SURROGATE RECOVERY	1) % Recovery < CL but ≥ 10%	J	J-	UJ	Sample
	2) % Recovery <10%	J	J-	R	
	3) % Recovery > CL	J	J+	None	

Qualification Summary for GC Methods

QUALITY CONTROL ITEM	EVALUATION	DATA QUALIFIER FLAG			SAMPLE(S) QUALIFIED
		Detects		Nondetects	
		Non Biased	Biased		
MATRIX SPIKE RECOVERY	1) % Recovery < CL but \geq 10%	J	J-	UJ	Parent Sample
	2) % Recovery < 10%	J	J-	R	
	3) % Recovery > CL	J	J+	None	
	4) RPD > CL	J	J	UJ	
LABORATORY CONTROL SAMPLE RECOVERY	1) % Recovery < CL but \geq 10%	J	J-	UJ	All samples in the same Preparation Batch
	2) % Recovery < 10%	J	J-	R	
	3) % Recovery > CL	J	J+	None	
	4) RPD > CL	J	J	UJ	
REPORTING LIMITS	1) Result greater than the project-reporting limit and lab qualifier = U.	N/A	N/A	None	Sample (noted in outlier report)
	2) Result less than the project-reporting limit where lab qualifier is not U.	J	J	N/A.	Sample
FIELD DUPLICATES	1) RPD > CL	None	None	None	Non-compliant results listed in the ADR outlier report
FIELD BLANKS EQUIPMENT BLANKS	1) Common lab contaminant results within 10 times blank contamination	U	U	None	All samples in the same sampling event
	2) Other lab contaminant results within 5 times blank contamination	U	U	None	
TRIP BLANKS	1) Common lab contaminant results within 10 times blank contamination	U	U	None	All samples in the same Shipping Batch
	2) Other lab contaminant results within 5 times blank contamination	U	U	None	

Qualification Summary for Metals Methods

QUALITY CONTROL ITEM	EVALUATION	DATA QUALIFIER FLAG			SAMPLE(S) QUALIFIED
		Detects		Nondetects	
		Non Biased	Biased		
HOLDING TIMES	1) Holding time exceeded by 2 times or less	J	J-	UJ	Sample
	2) Holding time exceeded by greater than 2 times	J	J-	R	
INITIAL CALIBRATION	1) $r < 0.995$	J	J	UJ	All samples associated with initial calibration (Run Batch)
INITIAL CALIBRATION VERIFICATION (ICV)	1) % Recovery > 110% but \leq 125% (Hg, % Recovery > 120% but \leq 135%)	J	J+	None	All samples associated with initial calibration verification (Run Batch)
	2) % Recovery > 125% (Hg, % Recovery > 135%)	R	R	None	
	3) % Recovery < 90% but \geq 75% (Hg, % Recovery < 80% but \geq 65%)	J	J-	UJ	
	4) % Recovery < 75% (Hg, % Recovery < 65%)	R	R	R	
CALIBRATION VERIFICATION	1) % Recovery > 110% but \leq 125% (Hg, % Recovery > 120% but \leq 135%)	J	J+	None	All samples associated with continuing calibration (Analysis Batch)
	2) % Recovery > 125% (Hg, % Recovery > 135%)	R	R	None	
	3) % Recovery < 90% but \geq 75% (Hg, % Recovery < 80% but \geq 65%)	J	J-	UJ	
	4) % Recovery < 75% (Hg, % Recovery < 65%)	R	R	R	
METHOD BLANK CONTAMINATION	Sample results less than or equal to 5 times the blank contamination	U	U	None	All samples in the same Preparation Batch
MATRIX SPIKE RECOVERY	1) % Recovery < CL but \geq 30%	J	J-	UJ	All samples in the same Method Batch
	2) % Recovery < 30%	J	J-	R	
	3) % Recovery > CL	J	J+	None	
	4) RPD > CL	J	J	UJ	

Qualification Summary for Metals Methods

QUALITY CONTROL ITEM	EVALUATION	DATA QUALIFIER FLAG			SAMPLE(S) QUALIFIED
		Detects		Nondetects	
		Non Biased	Biased		
LABORATORY CONTROL SAMPLE RECOVERY	1) % Recovery < CL but ≥ 50%	J	J-	UJ	All samples in the same Preparation Batch
	2) % Recovery <50%	J	J-	R	
	3) % Recovery > CL	J	J+	None	
	4) RPD > CL	J	J	UJ	
REPORTING LIMITS	1) Result greater than the project-reporting limit and lab qualifier = U	N/A	N/A.	None	Sample (noted in outlier report)
	2) Result less than the project reporting limit where lab qualifier is not U.	J	J	N/A.	Sample
FIELD DUPLICATES	RPD > CL	None	None	None	Non-compliant results listed in the ADR outlier report
FIELD BLANKS EQUIPMENT BLANKS	Sample results within 5 times blank contamination	U	U	None	All samples in the same sampling event

Data Qualifier Definitions

The following definitions provide brief explanations of the national qualifiers assigned to results in the data review process. If the Regions choose to use additional qualifiers, a complete explanation of those qualifiers should accompany the data review.

U	The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the adjusted Contract Required Quantitation Limit (CRQL) for sample and method.
J	The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain quality control criteria were not met, or the concentration of the analyte was below the CRQL).
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
UJ	The analyte was not detected at a level greater than or equal to the adjusted CRQL. However, the reported adjusted CRQL is approximate and may be inaccurate or imprecise.
R	The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.
C	This qualifier applies to pesticide and Aroclor results when the identification has been confirmed by Gas Chromatograph/Mass Spectrometer (GC/MS).
X	This qualifier applies to pesticide and Aroclor results when GC/MS analysis was attempted but was unsuccessful.

HHRA No. 39-DA-0ESM-11, Camp Carroll, Teagu, South Korea, 15 Jun through 16 Aug 11

APPENDIX F

BORELOGS

Exploration-Logs (2) phase I logs AppF
11-032E_Ph2_Exploration-Logs_Final