

Uploaded to the VFC Website



This Document has been provided to you courtesy of Veterans-For-Change!

Feel free to pass to any veteran who might be able to use this information!

For thousands more files like this and hundreds of links to useful information, and hundreds of "Frequently Asked Questions, please go to:

Veterans-For-Change

Veterans-For-Change is a A 501(c)(3) Non-Profit Organizaton
Tax ID #27-3820181
CA Incorporation ID #3340400
CA Dept. of Charities ID #: CT-0190794

If Veterans don't help Veterans, who will?

We appreciate all donations to continue to provide information and services to Veterans and their families.

https://www.paypal.com/cgi-bin/webscr?cmd= s-xclick&hosted button id=WGT2M5UTB9A78

Note

VFC is not liable for source information in this document, it is merely provided as a courtesy to our members & subscribers.



Client Sample ID : E11-138-S1

Lab Report Batch: 31101915

Lab ID: SGSW

Sample Date : 07/18/2011 Lab Sample ID: 31101915029 Analysis Type: RES

Sample Matrix: SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty i Error	Result Units	Łab Qual		Overall Qual*	Temn	HT	MB	LCS	MS	Lab Dup	Surr		Moist Tot/Dis		Tune	IC	ICV	CCV
Analysis Method : 8260B					Dilutio															
1,2-Dichloroethane	5.03		ug/Kg	U	YES		·····							i			l i		 	<i>i</i>
1,2-Dichloropropane	5.03		ug/Kg	υ	YES		i		1	 			: 			********	i		 	<u>-</u>
1,3,5-Trimethylbenzene	5.03		ug/Kg	U	YES	1	<u>.</u>		i i	 					:		!		 	<u>:</u>
1,3-Dichiorobenzene	5.03		ug/Kg	U	YES	1	I							1					 	i
1,3-Dichloropropane	5.03		ug/Kg	U	YES]								[i
1,4-Dichlorobenzene	5.03		ug/Kg	U	YES			,	1											i
2,2-Dichloropropane	5.03		ug/Kg	U	YES		1													i
2-Butanone	67.4		ug/Kg		YES	i											1			
2-Chlorotoluene	5.03		ug/Kg	U	YES	1														
2-Hexanone	12.6		ug/Kg	υ	YES	ì				i	į									1
4-Chlorotoluene	5.03		ug/Kg	U	YES		1				3	1								1
4-Isopropyltoluene	5.03		ug/Kg	U	YES	1	1]			1
4-Melhyl-2-pentanone	12.6		ug/Kg	υ	YES					1		1				Ī	(
Acetone	250		ug/Kg		YES		1	1				ı]							 [
Benzene	1.12		ug/Kg	J	YES	1	1					1	1					· · · · · · · · · · · · · · · · · · ·		
Bromobenzene	5.03		ug/Kg	υ	YES				I	1		1]	1	 	1	
Bromochloromethane	5.03		ug/Kg	υ	YES		1			·····		Ī]		ļ	1		· · · · · · · · · · · · · · · · · · ·	
Bromodichloromelhane	5.03		ug/Kg	U	YES		1	1	1	I						· · · · · · · · · · · · · · · · · · ·		1		
Bromoform	5,03		ид/Кд	U	YES	1	1	1			i	1	1	1				1	1	
Bromomethane	5,03		ug/Kg	U	YES	ſ		· · · · · · · · · · · · · · · · · · ·	1	Í		1					1	1	1	
Carbon disulfide	5.03	;	ug/Kg	U ;	YES		1	1		1	1	1	i		1	1			1	
Carbon tetrachloride	5.03	;	ug/Kg	U	YES		1	1	1		i		i	1		1			Ī	
Chlorobenzene	5.03	:	ug/Kg	V	YES ;	1	1	I	I		· · · · · · · · ·		1	1	1	1	ļ	1	1	
Chloroethane	5.03		ug/Kg	υ	YES	***		1		<u> </u>		ì			·····		1	1	1	1
Chloroform	5.03		ug/Kg	U	YES			1			1	Ì	1		,i	1		1	· · · · · · · · · · · · · · · · · · ·	····
Chloromethane	5.03		ug/Kg	U	YES		1	ĺ	1			ì				·····i		1	1	

Project Number and Name:

11-032E - 11-032E Carroll Agent Orange

Library Used: CampCarroll

ADR 8.2

Report Date: 9/6/2011 10:37

Page 6 of 182

^{*} 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

Client Sample ID : E11-138-S1

Lab Report Batch: 31101915

Lab ID: SGSW

Sample Date : 07/18/2011 Lab Sample ID: 31101915029 Analysis Type: RES

Sample Matrix : SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual		Overall Quai*	Temp	нт	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	tcv	CCA
Analysis Method : 8260B					Dilutio	on: 1														
cls-1,2-Dichloroethene	5.03		ug/Kg	U	YES				<u> </u>		(<u> </u>		<u> </u>		<u></u>		ļ	<u> </u>
cis-1,3-Dichloropropene	5.03		ug/Kg	U	YES				<u> </u>	<u> </u>]		1	١	<u> </u>		<u> </u>		l	<u> </u>
Dibromochloromethane	5.03		ug/Kg	U	YES						{		<u> </u>		<u> </u>					<u> </u>
Dibromomethane	5.03		ид/Кд	U	YES				<u> </u>		1		<u> </u>		<u> </u>		<u> </u>			<u> </u>
Dichlorodifluoromethane	5.03		ид/Кд	U	YES		I		<u> </u>		[<u> </u>		<u> </u>				l	<u> </u>
Ethyl Benzene	5.03		ug/Kg	U	YES				<u> </u>				<u> </u>	<u> </u>	<u> </u>				l	<u> </u>
Hexachiorobutadiene	5.03		ug/Kg	U	YES		l		l]			l	<u> </u>	<u> </u>		<u> </u>		<u> </u>	<u>l</u>
Isopropylbenzene (Cumene)	5.03		ug/Kg	U	YES				ĺ	l				<u> </u>	<u></u>		<u> </u>	. ,		<u> </u>
m,p-Xylene	10.1		ug/Kg	U	YES				l		1		l	<u> </u>	l	,	<u> </u>			<u> </u>
Methyl iodide	4.01		ug/Kg	J	YES		l		l	<u> </u>	i			l	l					<u> </u>
Methylene chloride	20.1		ug/Kg	U	YES		1		Ĺ	l	L	,,,,,,	l							<u> </u>
Naphthalene	5.03		ug/Kg	U	YES				l	l			l	<u> </u>	<u> </u>	· 	[]
n-Butylbenzene	5.03		ug/Kg	U	YES				<u> </u>		[l	ļ	[ļļ			J
n-Propylbenzene	5.03		ug/Kg	U	YES				<u> </u>				l	<u> </u>	<u> </u>		l		l	l
o-Xylene	5.03		ug/Kg	U	YES]		<u> </u>				l	l	<u> </u>		l		l	<u> </u>
sec-Bulylbenzene	5.03		ug/Kg	U	YES				l		ļ]		İ,	l	ļ		lj		l	ļ
Styrene	5.03		ug/Kg	U	YES				ĺ.,	l	[l	l	l		l		l	<u> </u>
tert-Butyl methyl ether (MTBE)	5.03		ug/Kg	Ų	YES				ĺ		<u>}</u>		l	l	l		li		l	<u> </u>
tert-Bulylbenzene	5.03		ug/Kg	U	YES				ĺ				l	<u> </u>	ļi				l	
Telrachioroethene	5.03		ug/Kg	U	YES		1						l	l	ļl				l	
Toluene	5.03		ug/Kg	บ	YES		1		l		l		l	l <i>.</i>	<u> </u>		l		l	ļ
trans-1,2-Dichloroethene	5.03	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ug/Kg	บ	YES		1						ļ	<u> </u>			ļ		l	
trans-1,3-Dichloropropene	5.03		ug/Kg	U	YES	ļ	1						<u> </u>	l			l	,		<u> </u>
trans-1,4-Dichloro-2-bulene	25.1		ug/Kg	U	YES		1				,		<u> </u>	l	<u> </u>		[l	1
Trichloroethene	5.03		ug/Kg	U	YES		1						!	l	<u> </u>				l]
Trichlorofluoromethane	5.03		ug/Kg	U	YES		1		1	1			l	1	1					

Project Number and Name:

11-032E - 11-032E Carroll Agent Orange

Library Used: CampCarroll

ADR 8.2

Report Date: 9/6/2011 10:37

Page 7 of 182

^{*} 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

Client Sample ID : E11-138-S1 Sample Date : 07/18/2011 Lab Report Batch: 31101915

Analysis Type: RES

Lab ID : SGSW

Sample Matrix: SO

Lab Sample ID: 31101915029

Reviewed By / Date:

Approved By / Date:

Analyte Name	Result	Uncertainty / Error	Result Units	i.ah Qual	Rep Res	Overall Quai*	Тетр	нт	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	IC	icv	CCV
Analysis Method : 8260B					Diluti	on: 1								,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
Vinyl chloride	5.03		ug/Kg	U	YES				j]		1		}		<u> </u>	<u> </u>	l	1	1
Analysis Method : 8270D					Dliuti	on: 1														***********
1,2,4-Trichlorobenzene	330		ug/Kg	U	YES					1			<u> </u>	<u> </u>		<u> </u>	ļ,,		1	
1,2-Dichlorobenzene	330		ug/Kg	U	YES				1	1	1	<u> </u>	l	<u> </u>	<u> </u>	<u> </u>	<u> </u>	l	J	ļ!
1,3-Dichtorobenzene	330		ug/Kg	U	YES				1	l	í	<u> </u>	ļ	<u> </u>	l	l	<u> </u>		J	
1,4-Dichlorobenzene	330		ug/Kg	Ų	YES				1	J	<u> </u>	l	<u> </u>	<u>.</u>		l	l	İ	J	
2,4,5-Trichlorophenol	330		ug/Kg	Ų	YES	[]			1	<u> </u>	<u> </u>	<u> </u>	[1	<u> </u>	<u> </u>		1	
2,4,6-Trichlorophenol	330		ug/Kg	υ	YES				1	<u> </u>	ļ		[<u> </u>			l	l	J	
2,4-Dichlorophenol	330		ug/Kg	U	YES			l	1	<u> </u>	<u> </u>	<u> </u>	<u> </u>	1	1		ļ	i	<u> </u>	
2,4-Dimethylphenol	330		ug/Kg	U	YES			l	1	ł	<u>.</u>	ļ	1	1	1		l	ļ	<u> </u>	<u> </u>
2,4-Dinitrotoluene	330		ug/Kg	บ	YES]	1]		l	1	<u> </u>	.	l	l	<u> </u>	<u> </u> !
2,6-Dinitrololuene	330		ug/Kg	U	YES					1	i	ł	1	i	J.,		l	<u> </u>	1	
2-Chloronaphthalene	330		ug/Kg	U	YES	1			1		}	l	l	l	[1	
2-Chlorophenol	330		ug/Kg	U	YES				<u> </u>	<u>.</u>	!	l	l	<u> </u>			l		J	
2-Methylnaphthalene	330		ид/Кд	U	YES				<u> </u>	Ι, ,	l	l		 				l	<u>I</u>	
2-Methylphenol	330		ug/Kg	U	YES	1			<u> </u>	<u> </u>		İ		ļ					<u>l</u>	
2-Nitroaniline	330		ug/Kg	U	YES	1			Ĺ	1	<u>.</u>	ł			1				<u>l</u> ,	<u> </u>
2-Nitrophenol	330		ug/Kg	U	YES	1				1	l	l							1	[
3 and/or 4-Methylphenol	330	:	ug/Kg	U	YES	i				1	1	İ	l				l		1	
3-Nitroaniline	330	;	ug/Kg	U	YES		1				1	l					l		1	
4-Bromophenyl phenyl ether	330		ug/Kg	ป	YES	ĺ	Ĩ		l		1	l			<u> </u>				1	
4-Chloro-3-methylphenol	330		ug/Kg	U	YES	Ī]				1	ļ			<u> </u>				1	<u> </u>
4-Chloroaniline	330		ug/Kg	U	YES	ĺ						ļ	<u> </u>				<u> </u>		1	<u> </u>
4-Chlorophenyl phenyl ether	330		ug/Kg	U	YES						İ						lj		1	<u>[]</u>
4-Nitroaniline	330	;	ug/Kg	U	YES				Ĺ								[]		1	<u> </u>
4-Nitrophenol	330	ì	ug/Kg	U	YES	[1]	
Acenaphthene	330	ì	ug/Kg	ย	YES	ſ	1													

Project Number and Name:

11-032E - 11-032E Carroll Agent Orange

Library Used: CampCarroll

Report Date: 9/6/2011 10:37

Page 8 of 182

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

Client Sample ID : E11-138-S1

Lab Report Batch: 31101915

Sample Date: 07/18/2011 Lab Sample ID: 31101915029 Analysis Type: RES

Lab ID: SGSW

Sample Matrix: SO

		Uncertainty/	Result	Lab	Rep	Overall	_				440	Lab		Rep	Moist		Tune	IC	icv	CCV
Analyte Name	Result	Error	Units	Qual	Res	Qual*	Temp	HT	MB	LCS	MS	Dup	Surr	Limit	Tot/Dis	QC	rune		104	
Analysis Method : 8270D					Diluti	on: 1											1	1	1	
Acenaphthylene	330	<u> </u>	ug/Kg	U	YES	ļl			ļ	<u> </u>	<u> </u>	ļ	ļ	<u> </u>			<u>!</u>	<u> </u>	<u> </u>	
Anthracene	330	:	ug/Kg	U	YES	<u> </u>			<u> </u>	<u> </u>	<u> </u>	ļ	<u>ļ</u>	<u> </u>	ļ		<u> </u>	1	ļ	
Benzo(a)anthracene	330	!	ug/Kg	U	YES	<u> </u>			<u> </u>	ļ	<u> </u>	ļ	ļ	!	<u> </u>		<u> </u>	<u> </u>	ļ	<u> </u>
Benzo(a)pyrene	330		ид/Кд	U	YES	<u> </u>			<u> </u>	<u> </u>	<u> </u>	l	<u> </u>		<u> </u>		!	<u> </u>	ļ	ļ
Benzo(b)fluoranlhene	330		ug/Kg	<i>U</i>	YES	<u> </u>		. 	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>		ļ	<u> </u>	ļ	ļ
Benzo(g,h,i)perylene	330		ug/Kg	U	YES	<u></u>			<u> </u>	<u> </u>	<u>!</u>	<u> </u>		l	ļ		ļ	<u> </u>	<u> </u>	ļ
Benzo(k)fluoranthene	330		ug/Kg	ย	YES	il	,,		<u> </u>	<u> </u>	1	<u> </u>	l		<u> </u>		<u> </u>	<u>.</u>	<u> </u>	ļ
Bis(2-Chloroethoxy)methane	330		ид/Кд	U	YES				<u> </u>	1	1	<u> </u>			<u> </u>		<u> </u>	ļ	[ļ
Bis(2-Chloroethyl)ether	330		ug/Kg	U	YES	<u>[</u>	,,	.		1	1	<u> </u>			<u> </u>		<u> </u>		<u> </u>	ļ
Bis(2-Chloroisopropyl)elher	330	<u> </u>	ug/Kg	U	YES	<u> </u>			<u> </u>	<u> </u>	<u> </u>	<u> </u>			1		<u> </u>	<u>.</u>	<u> </u>	<u> </u>
Bis(2-Ethylhexyl)phthalate	330	;	ug/Kg	Ų	YES				<u> </u>	<u> </u>	}	<u> </u>	<u> </u>		1		l	<u> </u>	<u> </u>	<u> </u>
Bulyl benzyl phthalate	330		ug/Kg	Ų	YES		<u>j</u>		ļ	<u>L</u>	i.,	ļ	1	İ]		ļ	<u></u>	<u> </u>	<u> </u>
Chrysene	330		ug/Kg	U	YES				l	<u> </u>	l .	<u> </u>	l		<u> </u>		I	<u> </u>	<u> </u>	l
Oibenz(a,h)anthracene	330		ug/Kg	U	YES				l	<u> </u>	<u> </u>	ļ		l	<u> </u>		<u> </u>	<u> </u>	<u> </u>	<u> </u>
Dibenzoluran	330		ug/Kg	U	YES		}		l	<u> </u>	<u> </u>	l	<u> </u>	<u> </u>			<u> </u>	l	<u> </u>	1
Diethyl phthalate	330		ug/Kg	U	YES	1	<u> </u>		l	<u> </u>	<u> </u>	Ĺ]	l			ţ	<u> </u>	ļ	l
Dimethyl phthalate	330		ug/Kg	U	YES		J	·	l	<u> </u>		<u> </u>	ļ	l	[ļ	<u>.</u>	l	1
Di-n-bulyi phthalate	330		ug/Kg	U	YES	: 1	1			1	<u> </u>	<u> </u>	<u> </u>	l		. ,	ļ	<u> </u>	J	1
Di-n-octyl ohthalate	330		ug/Kg	U	YES		1			Ī	1	l	l	<u> </u>	1		ļ	İ	<u> </u>	<u> </u>
Fluoranthene	330		ug/Kg	υ	YES		1			1	1	l		l			ļ	ļ	<u> </u>	<u>I</u>
Fluorene	330		ug/Kg	U	YES	1	1		1	1	1	l	<u> </u>	<u> </u>	1		I	ļ	<u> </u>	ļ
Hexachlorobenzene	330		ug/Kg	U	YES	1	1		l	1	1	l	l	<u> </u>	 		ļ	<u> </u>	<u> </u>	<u> </u>
Hexachtorobutadiene	330		ид/Кд	U	YES	1	Ï			l	•				<u> </u>		<u> </u>	<u> </u>	<u> </u>	<u> </u>
Hexachtorocyclopentadiene	330		ид/Кд	U	YES					l	{	!		l			1	ļ	1	l
Hexachloroethane	330		ug/Kg	U	YES		ı			1	}			1	1		1	1	J	<u> </u>
Indeno(1,2,3-cd)pyrene	330		ug/Kg	U	YES	i i	ı		 	I	l	l	1		1		1	1		

Project Number and Name:

11-032E - 11-032E Carroll Agent Orange

Library Used: CampCarroll

Report Date: 9/6/2011 10:37

Page 9 of 182

^{*} 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

Client Sample ID : E11-138-S1

Lab Report Batch: 31101915

Lab ID: SGSW

Sample Date : 07/18/2011 Lab Sample ID: 31101915029 Analysis Type: RES

Sample Matrix: SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overati Qual*	Temp	нт	МВ	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CCV
Analysis Method : 8270D					Diluti	on: 1								····						
Isophorone	330	:	ид/Кд	U	YES	:						ĺ	l		T					[
Naphthalene	330		ug/Kg	ß	YES	:			1		1				1		1	1		
Nitrobenzene	330		ug/Kg	Ü	YES				1		 	;		1	1			1	1	1
n-Nitrosodi-n-propylamine	330		ug/Kg	U	YES									[f :				1	1
Pentachlorophenol	330		ug/Kg	U	YES	IJ				ŲJ					1				 	1
Phenanihrene	330		ug/Kg	U	YES							 			1		 	1	 	i
Phenol	330		ug/Kg	U	YES												: 	i 1	: 	i
Pyrene	330		ug/Kg	U	YES				` 						1		:	: }	: 	<u>:</u>

Project Number and Name:

11-032E - 11-032E Carroll Agent Orange

Library Used:

Report Date: 9/6/2011 10:37

CampCarroll

ADR 8.2

* 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

Page 10 of 182

Client Sample ID : E11-138-S2

Lab Report Batch: 31101915

Lab ID : SGSW

Sample Date : 07/18/2011 Lab Sample ID: 31101915030 Analysis Type: RES

Sample Matrix : SO

Reviewed By / Date:

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	нт	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CCA
Analysis Method : 6010	C				Dilutie	on: 1					·····									
Arsenic	0.683		mg/kg	J	YES				l			l	[<u> </u>	<u>]</u>		1		<u> </u>	<u> </u>
Barium	95.6		mg/kg		YES					1		<u> </u>	1	l	<u> </u>				1	1
Cadmium	0.650		mg/kg		YES	U		ļ	U	1		<u> </u>	l	l	<u>[</u>				<u> </u>	1
Chromium	3.40		mg/kg		YES	1				1	!	<u> </u>	<u> </u>		<u> </u>		<u> </u>		<u> </u>	
Lead	4.37		mg/kg		YES		1		1			<u> </u>	<u> </u>		<u> </u>		<u> </u>		<u> </u>	1
Setenium	2.03		mg/kg	U	YES		.,,		[!	<u> </u>	l	<u> </u>		<u> </u>		<u> </u>	<u> </u>
Silver	1,01		mg/kg	U	YES							İ	l	l	<u> </u>		[<u>.</u>		<u> </u>	1
Analysis Method : 7471	IB				Dilutio	n: 1	,													
Mercury	0.0185		mg/kg	U	YES	,			l	l		l	l		li		l		<u> </u>	1
Analysis Method : 8081					Dilutio	n:1														
4,4'-DDD	9.90	<u> </u>	ug/Kg	U	YES				<u>.</u>	<u> </u>			<u> </u>		<u> </u>		<u> </u>		<u> </u>	<u> </u>
4,4'-DDD	9.90	i 	ug/Kg	u	YES				l	<u> </u>			l		<u> </u>		l		<u> </u>	1
4,4'-DDE	9.90		ug/Kg	U	YES				l	l			<u> </u>		l		<u> </u>		<u>.</u>	ļ
4,4'-DDE	9,90		ug/Kg	U	YES					l		l	<u> </u>		<u> </u>		1		<u>!</u>	ļ
4,4'-DDT	9,90		ug/Kg	υ	YES		<u>l</u>			[<u>.</u>		<u> </u>]		<u> </u>		<u> </u>	l
4,4'-DDT	9.90		ug/Kg	υ	YES		<u>J</u>		. 			<u> </u>	l		ļi				<u> </u>	ļ
Aldrin	9.90		ug/Kg	υ	YES					<u> </u>		<u> </u>	l].,		[<u>J</u>	<u> </u>
Aldrin	9.90	;	ug/Kg	U	YES					lj		!	l]				J	<u> </u>
alpha-BHC	9.90		ug/Kg	Ü	YES					l		l	<u> </u>		<u> </u>				ļ	ļ
alpha-BHC	9.90		ug/Kg	U	YES		1		<u> </u>	<u> </u>			l		l				<u></u>	ļ
alpha-Chlordane	9.90		ug/Kg	U	YES				L	lj			<u> </u>		l		<u></u>		<u> </u>	<u> </u>
alpha-Chlordane	9.90	,	ug/Kg	U	YES				.,,	<u> </u>					ll				<u> </u>	ļ
beta-BHC	9.90		ug/Kg	Ų	YES	1									!				<u> </u>	ļ
beta-BHC	9,90		ug/Kg	U	YES					l					<u> </u> i		<u></u>		1	l
Chlordane	33.0		ug/Kg	Ų	YES		1				ļ				<u> </u>		<u> </u>		<u></u>	<u> </u>
Chlordane	33.0		ug/Kg	U	YES		1						[<u> </u>		<u> </u>	<u> </u>
delta-BHC	; 9.90		ug/Kg	U	YES	1		-		1					[]				l	i

Project Number and Name:

11-032E - 11-032E Carroll Agent Orange

Library Used: CampCarroll

20.00

Report Date: 9/6/2011 10:37

Page 11 of 182

^{*} 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

Client Sample ID : E11-138-S2

Lab Report Batch: 31101915

Lab ID : SGSW

Sample Date: 07/18/2011

Analysis Type: RES

Sample Matrix: SO

Lab Sample ID: 31101915030
Reviewed By / Date:

Approved By / Date :

	***************************************	Uncertainty /	Result	Lab	Par	Overall						Lab		Rec	Moist	Eigld				CV /
Analyte Name	Result	Error	Units	Qual		Quai*		HT	МВ	LCS	MS	Dup	Surr		Tot/Dis		Tune	IC	ICV	CCV
Analysis Method ; 8081					Difuti	on: 1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			*****										,
delta-BHC	9.90		ug/Kg	Ų	YES		i l		1	,	1	1	!	i			1		ı	
Dieldrin	9.90		ug/Kg	Ų	YES				1										[
Dieldrin	9.90		ug/Kg	U	YES								1		1					
Endosulfan I	9.90		ug/Kg	U	YES				1]				1		1		1	
Endosulfan I	9.90		ug/Kg	U	YES	:			1		ĺ								1	1
Endosulfan il	9.90		ug/Kg	U	YES				1		}			1			1			1
Endosulfan II	9.90		ug/Kg	υ	YES		1		l					}						l
Endosulfan sulfate	9.90		ug/Kg	U	YES															ĺ
Endosulfan sulfate	9.90		ug/Kg	U	YES								 							l
Endrin	9.90		ug/Kg	U	YES										1					
Endrin	9.90		ug/Kg	U	YES				l						1		l			
Endrin aldehyde	9.90		ug/Kg	U	YES		1													
Endrin aldehyde	9,90		ug/Kg	U	YES										1 1					
Endrin ketone	9,90		ид/Кд	U	YES		1								[[
Endrin ketone	9.90		ug/Kg	U	YES		1								l 1					
gamma-BHC (Lindane)	9.90		ug/Kg	V	YES		1								l					1
gamma-BHC (Lindane)	9.90		ug/Kg	U	YES		I					ı			1					1
gamma-Chlordane	9.90		ug/Kg	υ	YES	ş	1					١								
gamma-Chlordane	9.90		ug/Kg	U	YES		1													
Heptachlor	9,90		ug/Kg	U	YES		i			······		Ï	i		1					İ
Heptachlor	9,90		ug/Kg	Ų	YES	ii			Ì		· · · · · · · · · · · · · · · · · · ·	1			1				· · · · · ·	1
Heptachlor epoxide	9.90		ug/Kg	U	YES]	ĺ			Ì			i i		i			1
Heplachlor epoxide	9.90		ug/Kg	U	YES		1	1	1	i	i		1				1			
Melhoxychior	9.90		ug/Kg	U	YES		i	· · · · · · · · · · · · · · · · · · ·	i	······	1	1								1
Methoxychlor	9.90		ug/Kg	υ	YES		· · · · · · · · · · · · · · · · · · ·	1	i			i					i			(
Toxaphene	33.0		ug/Kg	υ	YES		· · · · · · i	·····i	 1		 I	·····i	· · · · · · · · ·				i i			i

Project Number and Name:

11-032E - 11-032E Carroll Agent Orange

Library Used: CampCarroll

Report Date: 9/6/2011 10:37

ADR 8.2

* 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

Page 12 of 182



Client Sample ID : E11-138-S2 Sample Date: 07/18/2011

Lab Report Batch: 31101915

Analysis Type: RES

Lab ID : SGSW

Sample Matrix: SO

Lab Sample ID: 31101915030

Reviewed By / Date :

Approved By / Date :

Result	Uncertainty / Error	Result Units	Lab Qual				нт	МВ	LCS	MS	Lab Dup	Surr	Rep Limit			Tune	IC	ICV	CCV
				Difutio	n: 1														
33.0	į	ug/Kg	U	YES	ì				1	ì	ĺ	1	i						1
				Dilutio	n: 1						.,,,,,,,,,,								
0.0167		mg/kg	Ü	YES							T	I						1	
0.0167		mg/kg	U	YES	1			[1	1]		ļ]		1 1			
0.0167		mg/kg	υ.	YES	1				Ì	į	1	1	[1					1
0.0167		mg/kg	U	YES				1				1						[1
0.0167		mg/kg	ប	YES				1	l		1	l							1
0.0167		mg/kg	U	YES]							l	1			l i		1	
0.0167		mg/kg	U	YES	1						1		1			1		1	
0.0167	i	mg/kg	υ	YES						1	ļ	1	}			{		1	
0.0167		mg/kg	U	YES				1	1	1	İ			1 1				1	1
0.0167		mg/kg	U	YES		· · · · · · ·						1				l		1	i
				Dilutio	n: 1														
4.38	į	ug/Kg	U	YES		1					}							1	
4.38	į	ug/Kg	U	YES :				j						ĺ					1
4.38		ug/Kg	U	YES :		1													
4.38	;	ug/Kg	υ	YES :]					1							[
4.38	:	ug/Kg	U	YES :	1	1					;					1			
4.38	:	ug/Kg	U	YES								1				1		1	
4.38	;	ug/Kg	υ	YES	1							1						 	
4.38		ug/Kg	U	YES :	i						i							1	
4.38		ug/Kg	U	YES					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		j							· · · · · · · · · · · · · · · · · · ·	[
4.38		ug/Kg	U	YES		1		· · · · · · · · ·			}					1			
4.38		ug/Kg	ν ;	YES :												······································			
26.3		ug/Kg	U	YES															
4,38	·····	ug/Kg	V	YES	í	1		Ī	i				i		i				
4.38	·····	ug/Kg	U	YES	i	1		<u>-</u>			i		i	i		Ì		1	
	Result 33.0 0.0167 0.0167 0.0167 0.0167 0.0167 0.0167 0.0167 4.38 4.38 4.38 4.38 4.38 4.38 4.38 4.38	33.0 0.0167 0.0167 0.0167 0.0167 0.0167 0.0167 0.0167 0.0167 0.0167 1.38 4.38	Result Error Units	Result Error Units Qual	Result	Result	Result	Result	Result	Result Error Units Qual Res Qual Temp HT MB LCS	Result	Result	Result	Result Error Units Qual Res Qual Temp HT MB LCS MS Dup Surr Limit	No. No.	Result Error Units Qual Res Qual Temp HT MB LCS MS Dup Surr Limit Tot/Dis QC	Result Error Units Qual Res Qual* Temp HT MB LCS MS Dup Surr Linit ToUDIS QC Tune	Result Error Units Qual Res Qual Temp HT MB LCS MS Dup Surr Limit Tot/Dis QC Tune IC	Result Error Units Qual Res Qual* Temp HT MB LCS MS Dup Surr Limit ToUDIS QC Tune IC ICV

Project Number and Name:

11-032E - 11-032E Carroll Agent Orange

Library Used: CampCarroll

Report Date: 9/6/2011 10:37

Page 13 of 182

ADR 8.2 * Overal! result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

Client Sample ID : E11-138-S2

Lab Report Batch: 31101915

Lab ID: SGSW

Sample Date: 07/18/2011 Lab Sample ID: 31101915030 Analysis Type: RE\$

Sample Matrix: SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quai		Overall Qual*		нт	мв	LCS	MS	£ab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	fC	ICV	CCV
Analysis Method ; 8260B					Dilutio	on: 1														
1,2-Dichloroethane	4.38	;	ug/Kg	U	YES	:			1	1		İ	[1					1
1,2-Dichloropropane	4.38		ug/Kg	Ų	YES					1	Į			ļ					1	1
1,3,5-Trimethylbenzene	4.38		ug/Kg	υ	YES										1		1		1	
1,3-Dichlorobenzene	4.38	;	ug/Kg	υ	YES						}								1	1
1,3-Dichloropropane	4.38		ug/Kg	U	YES										I				1	
1,4-Dichlorobenzene	4.38		ug/Kg	U	YES					1									[1
2,2-Dichteropropane	4.38		ug/Kg	Ų	YES						1				1					l
2-Butanone	12.6		ug/Kg	J	YES		1								i i					1
2-Chlorotoluene	4.38	[ug/Kg	U	YES	•	I													1
2-Hexanone	11.0		ug/Kg	U	YES										i i					i
4-Chlorotoluene	4.38		ug/Kg	U	YES		i								1 1					1
4-isopropylloluene	4.38		ид/Кд	U	YES			ا	:						i					i
4-Methyl-2-pentanone	11,0		ug/Kg	U	YES															
Acetone	41.2		ug/Kg	J	YES		·····i	······`							ii				`]
Benzene	4.38		ug/Kg	U	YES						· · · · · · · · · · · · · · · · · · ·	 								i
Bromobenzene	4.38		ug/Kg	U	YES)	·····i]	i	1		· · · · · · · · · · · · · · · · · · ·								ĺ
Bromochloromethane	4.38		ug/Kg	U	YES		······i	· · · · · · · · · · · · · · · · · · ·				i	i							1
Bromodichloromethane	4.38		ug/Kg	U	YES		·····	· · · · · · · · · · · · · · · · · · ·				i	i)			1
Bromoform	4.38		ug/Kg	U	YES	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	i	í		·······	· · · · · · · ·	i			· · · · · · · · ·				i
Bromomethane	4.38		ид/Кд	U	YES			· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		i	· · · · · · · · · · · · · · · · · · ·			i i		i			1
Carbon disulfide	4,38		ug/Kg	u	YES:		i					·····i				· · · · · · · · · · · · · · · · · · ·	·····			1
Carbon tetrachioride	4.38		ug/Kg	U	YES				··································	· · · · · · · · · · · · · · · · · · ·	·····			· · · · · · · · · ·						
Chlorobenzene	4.38		ug/Kg	Ų	YES				· · · · · · · · · · · · · · · · · · ·		: ا						٠٠٠٠٠٠٠	· · · · · · · · · · · · · · · · · · ·		
Chloroethane	4.38		ug/Kg	υ	YES						<u>-</u>	i		<u>'</u> 	<u>.</u> I	! ا	 :		! 	
Chloroform	4,38		ug/Kg	U	YES		·····i	·····:	······'		······	!	······'	· !		! I	······		····	
Chioromethane	4,38		ug/Kg	u	YES	<u>-</u>					! !	اا	1	· · · · · · · · · · · · · · · · · ·	i				!	

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

Library Used: CampCarroll

ADR 8.2

Report Date: 9/6/2011 10:37 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 Page 14 of 182

Client Sample ID : E11-138-S2 Sample Date: 07/18/2011

Lab Report Batch: 31101915

Analysis Type: RES

Lab ID : SGSW

Sample Matrix: SO

Lab Sample ID: 31101915030

Reviewed By / Date :							whh	.0766	a wy r	Date :										
Analyte Name	Result	Uncertainty /	Result Units	Lab Quai	Rep Res	Overall Quai*		нт	МВ	LCS	мѕ	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	IC	ICV	CCV
Analysis Method : 8260B					Diluti	on: 1														
cis-1,2-Dichloroethene	4.38		ug/Kg	U	YES				1	1		1							1	1
cis-1,3-Dichforopropene	4.38		ug/Kg	U	YES					1		!	1	1						1
Dibromochloromethane	4.38		ug/Kg	U	YES				1		1			1	1 (1
Dibromomethane	4.38		ug/Kg	υ	YES				1		(ĺ				[[[
Dichlorodifluoromethane	4.38		ug/Kg	U	YES															1
Ethyl Benzene	4.38		ug/Kg	U	YES												ĺ		l	1
Hexachlorobutadiene	4.38		ug/Kg	U	YES				1			1			<u> </u>				l	l
(sopropylbenzene (Cumene)	4.38		ug/Kg	U	YES				1		1		1	1]					1
m,p-Xylene	8.76		ug/Kg	IJ	YES		1				j									
Methyl iodide	4.38		ug/Kg	U	YES		1					[
Methylene chloride	2.62		ug/Kg	J	YES							ļ]				ĺ			1
Naphthalene	4.38		ug/Kg	U	YES	1	-			1	}]						• • • • • • • • • • • • • • • • • • • •	!	Ī
n-Butylbenzene	4.38		ug/Kg	U	YES		ı													
n-Propylbenzene	4.38		ug/Kg	V	YES							{								1
o-Xylene	4.38		ug/Kg	U	YES					ĺ		[i i		1	1
sec-Butylbenzene	4.38		ug/Kg	U	YES		······i				1				1	**	1			1
Slyrene	4.38		ug/Kg	U	YES		1										•			
lert-Bulyl methyl ether (MTBE)	4.38		ug/Kg	υ	YES		I	ĺ							· · · · · · · · · · · · · · · · · · ·			1		1
lert-Bulylbenzene	4.38		ug/Kg	ម	YES	1		i		1										1
Tetrachioroethene	4.38		ug/Kg	U	YES		1													İ
Toluene	4.38		ug/Kg	U	YES			· · · · · · · · · · · · · · · · · · ·					1		1		1			1
rans-1,2-Dichloroethene	4.38		ug/Kg	υ	YES	ยม		Ì		IJ				· · · · · · · · · · · · · · · · · · ·			1			
rans-1,3-Dichloropropene	4.38		ug/Kg	U ;	YES	1		1	i				i	· · · · · · i		, , , , , , , , , , , , , , , , , , ,	i	1		1
rans-1,4-Dichloro-2-butene	21.9		ug/Kg	U	YES		1	i						 1	i	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · ·	· · · · · · ·		1
Trichloroelhene	4.3B		ug/Kg	Ų	YES	i	i	········	 				ii	····i	i		1			i
Frichlorofluoromethane	4.38	***************************************	ug/Kg	U	YES		· · · · · · · · · · · · · · · · · · ·	1						i		 ا				i I

Project Number and Name:

11-032E - 11-032E Carroll Agent Orange

Library Used: CampCarroll

Report Date: 9/6/2011 10:37

Page 15 of 182

ADR 8.2 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

Client Sample ID : E11-138-S2

Lab Sample ID: 31101915030

Lab Report Batch: 31101915

Lab ID : SGSW

Sample Date: 07/18/2011

Analysis Type: RES

Sample Matrix : SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	нт	WB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Fleid QC	Tune	Ю	icv	CCV CCV
Analysis Method : 8260B					Difutio	on: 1				*************										
Vinyl chloride	4.38		ид/Кд	U	YES				<u> </u>	<u> </u>	<u> </u>	l	<u> </u>		<u> </u>		[]		1	<u> </u>
Analysis Method : 8270D					Dilutio	on: 1														
1,2,4-Trichlorobenzene	330		ug/Kg	U	YES	1			ļ	<u> </u>		<u> </u>	<u> </u>		<u> </u>		[]		<u> </u>	<u> </u>
1,2-Dichlorobenzene	330		ug/Kg	U	YES				1	<u> </u>			l		<u> </u>		l]	ļ
1,3-Dichlorobenzene	330		ug/Kg	U	YES				1	<u> </u>	l	l	l				[<u> </u>	<u> </u>
1,4-Dichlorobenzene	330		ug/Kg	U	YES	<u> </u>			l	ļ	l	<u> </u>	l		1		l		<u>J</u>	ļ
2.4,5-Trichlorophenol	330		ид/Кд	U	YES				<u> </u>		<u> </u>	<u> </u>	<u> </u>				<u> </u>		<u> </u>	<u> </u>
2,4,6-Trichlorophenol	330		ug/Kg	U	YES				l	1	l	<u> </u>	l				<u> </u>		<u> </u>	!
2,4-Dichlorophenol	330		ug/Kg	U	YES				l	1	l	ļ	<u> </u>		l!		<u> </u>		<u> </u>	ł
2,4-Dimethylphenol	330		ug/Kg	U	YES				l	1		1	[<u> </u>		<u> </u>		J	1
2,4-Dinitrotoluene	330		ug/Kg	U	YES				l	1]					l		1	1
2,6-Dinitrotoluene	330		ид/Кд	U	YES]		l	l		ĺ	l				l		[1
2-Chioronaphthalene	330		ug/Kg	U	YES		1		l			İ	[]				l		l	l
2-Chlorophenol	330		ug/Kg	υ	YES]		i			!					l I		l	ļ
2-Methylnaphthalene	330		ug/Kg	ប	YES				l			.					l		1	ļ
2-Methylphenol	330		ug/Kg	u	YES				l	l		į					<u> </u>		1	<u> </u>
2-Nitroaniline	330		ug/Kg	u	YES		1		l	l					<u> </u>				1	<u> </u>
2-Nitrophenol	330		ug/Kg	U	YES				l	l		<u></u>			l		!		1	İ
3 and/or 4-Methylphenol	330	;	ug/Kg	U	YES				<u> </u>						l				<u> </u>	l
3-Nitroaniline	330	j	ug/Kg	υ	YES				l								l		ļ	<u> </u>
4-Bromophenyi phenyl ether	330		ug/Kg	U	YES				l					,	l i		l		<u> </u>	<u> </u>
4-Chioro-3-methylphenol	330	į	ug/Kg	U	YES	į			l			<u> </u>]		l		<u> </u>	ļ
4-Chloroaniline	330		ug/Kg	U	YES				l	l		<u> </u>							<u> </u>	<u> </u>
4-Chlorophenyl phenyl elher	330	;	ug/Kg	V	YES				l	<u> </u>		<u> </u>			<u> </u>]		<u> </u>	ļ
4-Nitroaniline	330		ug/Kg	U	YES				l	l		<u> </u>				- .]		<u> </u>	İ
4-Nitrophenol	330		ug/Kg	ប	YES		1			<u> </u>		<u></u>	<u> </u>		l				<u> </u>	<u> </u>
Acenaphthene	330		ug/Kg	U	YES	l	1										li		J	

Project Number and Name:

11-032E - 11-032E Carroll Agent Orange

Library Used: CampCarroll

Report Date: 9/6/2011 10:37

Page 16 of 182

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

Client Sample ID: E11-138-S2

Lab Sample ID: 31101915030

Lab Report Batch: 31101915

Lab ID: SGSW

Sample Date: 07/18/2011

Analysis Type: RES

Sample Matrix: SO

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual		Overali Qual*	Yemn	нт	мв	LCS	MS	Lab Dup	Surr	Rep	Moist Tot/Dis	Field QC	Типе	IC	ICV	CCV
Analysis Method : 8270D	1100011		Oliko	- Guat	Diluti		remp					- Jup					14110			
Acenaphthylene	330		ug/Kg	U	YES		,		· · · · · · · · · · · · · · · · · · ·	1			1	i	1		l 3	 I		
Anthracene	330		ид/Кд	U	YES	:			 I	: 	/ 	\ }	:	/ 					;	i
Benzo(a)anthracene	330		ug/Kg	U	YES		i		 	i	<u> </u>	: }	: 	/ 	1		i		: 	i I
Benzo(a)pyrene	330		ug/Kg	υ	YES				1	i 	i 1	` 	<u>:</u>	/ 	i		i		i I	i
Benzo(b)fluoranthene	330		ug/Kg	Ŭ	YES				1	1	i	: 			i		i i			
Benzo(g,h,i)perylene	330		ug/Kg	Ų	YES		·······		ì	; 	:	: 	` 						1	
Benzo(k)fluoranthene	330		ug/Kg	U	YES				1	1					i i				1	
8is(2-Chloroethoxy)methane	330		ug/Kg	υ	YES		i			<u>.</u>	 		i							İ
Bis(2-Chloroethyl)ether	330		ug/Kg	υ	YES		i			i 	1		 		i i					
Bis(2-Chloroisopropyl)ether	330		ug/Kg	U	YES						(l	••		i
Bis(2-Ethylhexyl)phthalale	330		ид/Кд	U	YES]		1					
Butyl benzyl phthalate	330		ug/Kg	U	YES	1	1												1	[
Chrysene	330		ug/Kg	U	YES					1					1					
Dibenz(a,h)anthracene	330		ид/Кд	V	YES]									1		[1
Dibenzofuran	330		ug/Kg	U	YES)														
Diethyl phlhalate	330		ug/Kg	ប	YES		<u> </u>													1
Dimethyl phthalate	330		ug/Kg	U	YES			1					i i		f I					
Di-n-bulyi phthalale	330	į	ug/Kg	U	YES															
Di-n-octyl phthalate	330	;	ug/Kg	υ	YES	-	1						}							1
Fluoranthene	330		ug/Kg	υ	YES				1											
Fluorene	330		ug/Kg	u	YES			1												
-lexachlorobenzene	330	i	ид/Кд	U	YES	i	1	1]					1	j			
-lexachlorobutadiene	330		ug/Kg	υ	YES			1	j				Ì				1			1
-lexachlorocyclopentadiene	330		ug/Kg	υ	YES		- 1	١	-				1	1			1			
dexachloroethane	330		ug/Kg	U	YES		1	1	1			-	1				1		1	
ndeno(1,2,3-cd)pyrene	330		ug/Kg	υ	YES		1	1			1	ı	i	t			i			

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

Library Used:

ADR 8.2

Report Date: 9/6/2011 10:37

Page 17 of 182

^{*} 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

Client Sample ID : E11-138-S2

Lab Report Batch: 31101915

Sample Date : 07/18/2011 Lab Sample ID: 31101915030 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	нт	МВ	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	21	(CV	CCA
Analysis Method : 8270D					Diluti	on: 1														
Isophorone	330	;	ид/Кд	U	YES	:			1	1	1	İ	1				[1	1	1
Naphthalene	330		ug/Kg	U	YES			1					1				1	1	1	1
Nilrobenzene	330		ug/Kg	บ	YES					1					1					1
n-Nitrosodi-n-propylamine	330		ug/Kg	U	YES						1	į					1			
Pentachlorophenol	330		ug/Kg	U	YES	UJ				ŲJ	1	[
Phenanthrene	330		ug/Kg	U	YES	;			1	1]	, 	1						1	Ī
Phenol	330		ug/Kg	Ų	YES	:			1	1							1	1	1	1
Pyrene	330		ug/Kg	U	YES				1	 		 	1		1		[Ĭ	1

Project Number and Name:

11-032E - 11-032E Carroll Agent Orange

Library Used:

Report Date: 9/6/2011 10:37

CampCarroll

ADR 8.2

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 and any qualifiers added manually for categories not assessed by automated data review

Page 18 of 182

Client Sample ID: E11-139-S1 Sample Date: 07/18/2011

Lab Report Batch: 31101915

Analysis Type: RES

Lab ID : SGSW

Sample Matrix: SO

Lab Sample ID: 31101915026

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual		Overall Qual*	Temp	нт	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CCV
Analysis Method : 6010C					Dilutio	n: 1														
Arsenic	2.03		mg/kg		YES					<u> </u>		<u> </u>		<u> </u>	1		[]		J	
Barium	69.1		mg/kg		YES				Į.	1		Ι.	1	<u>.</u>	1				<u> </u>	<u> </u>
Cadmium	0.755		mg/kg		YES	U			υ	1	1	<u> </u>	1		1		1		1	1
Chromium	3.84		mg/kg		YES	Ì	-			}	1	1		1					1	l
Lead	10.2		mg/kg		YES					l	1						<u> </u>		<u> </u>	1
Selenium	2.06		mg/kg	Ų	YES				l	1	\$	(1			<u> </u>			1
Silver	1.03		mg/kg	U	YES		J				ì			1	l i				<u> </u>	1
Analysis Method : 7471B					Dilutio	n: 1					.,									
Mercury	0.0101		mg/kg	J	YES						<u>.</u>	l			ļ.,, <u>,,,</u> ,				<u>J</u>	1
Analysis Method : 8081					Dilutio	n: 1														
4,4'-DDD	10.3		ug/Kg	Ų	YES					l	<u> </u>	<u> </u>	<u> </u>						<u> </u>	1
4,4'-DDD	10.3		ug/Kg	ប	YES		1		<i>.</i>	<u> </u>			l	1	<u> </u>		li		1	1
4,4'-DDE	10,3		ug/Kg	U	YES	i				[<u> </u>		<u> </u>		<u> </u>				<u> </u>	1
4,4'-DDE	10.3	į	ug/Kg	U	YES		<u> </u>			l		<u> </u>	l		<u> </u>				<u> </u>	<u> </u>
4,4'-DDT	10.3	į	ug/Kg	υ	YES :]		l		l. <i></i>	l				[<u> </u>	1
4,4'-DDT	10.3	,	ug/Kg	U	YES					l		l					<u> </u>		<u> </u>	<u> </u>
Aldrin	10.3		ug/Kg	U	YES :								[<u> </u>				<u> </u>	<u> </u>
Aldrin	10.3		ug/Kg	V	YES [- 1						ļi		<u> </u>		<u> </u>		<u> </u>	<u> </u>
alpha-BHC	0.446	<u> </u>	ug/Kg	JР	YES								<u> </u>		[[<u> </u>			<u> </u>
alpha-BHC	0.446		ug/Kg	JP	YES]											<u> </u>	1
alpha-Chlordane	10.3	;	ug/Kg	υ	YES]		1	1
alpha-Chiordane	10.3		ug/Kg	U	YES						1						[<u> </u>	<u> </u>
beta-BHC	10.3	-	ид/Кд	U	YES		j	l]						J	1
beta-BHC	10.3	1	ug/Kg	U	YES		j	ا											J	<u> </u>
Chlordane	34.2	;	ug/Kg	υ	YES															<u> </u>
Chlordane	34.2		ug/Kg	υ	YES	1					i]	
della-BHC	10.3		ug/Kg	ប	YES :	}		Ī					1				1		1	1

Project Number and Name:

ADR 8.2

11-032E - 11-032E Carroll Agent Orange

Library Used: CampCarroll

Report Date: 9/6/2011 10:37

Page 19 of 182

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

Client Sample ID : E11-139-S1

Lab Report Batch: 31101915

Lab ID : SGSW

Sample Date: 07/18/2011

Analysis Type: RES

Sample Matrix : SO

Lab Sample ID: 31101915026

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quai	Rep Res	Overali Quai*	Temp	нт	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist ToUDIs		Типе	ıc	ICV	CCV
Analysis Method : 8081					Dilutio	on: 1														
delta-BHC	10.3		ug/Kg	υ	YES		Ī			l	i				1					
Dieldrin	10.3		ug/Kg	U	YES	-]						1	1						
Dieldrin	10,3		ид/Кд	U	YES	1	1		l		1			}					1	
Endosulfan I	10.3		ug/Kg	U	YES	(1							Ì						
Endosulfan I	10.3		vg/Kg	U	YES		<u>.</u>						1						1	1
Endosulfan ii	10.3		ug/Kg	Ų	YES		i													
Endosulfan II	10.3		ug/Kg	υ	YES		i]	
Endosulfan sulfate	10,3		ug/Kg	U	YES	1							1							1
Endosulfan sulfate	10.3		ยg/Kg	U	YES	}					.,		1							1
Endrin	10,3		ug/Kg	U	YES	į														1
Endrin	10.3		ug/Kg	U	YES		1						l							
Endrin aldehyde	10.3	ĺ	ug/Kg	U	YES												İ		1	
Endrin aldehyde	10.3		ug/Kg	U	YES	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		1												
Endrin ketone	10.3	;	ug/Kg	υ	YES												1			
Endrin ketone	10.3	;	ug/Kg	υ	YES		1					1					1		[i
gamma-BHC (Lindane)	10.3		ug/Kg	U	YES	1	1										(i
gamma-BHC (Lindane)	10.3		ug/Kg	U	YES	1	1				-				1					1
gamma-Chlordane	10.3		ug/Kg	U	YES	Į		1			}				ĺ					1
gamma-Chlordane	10.3		ug/Kg	U	YES	1	1	1			i									1
Heptachlor	10.3		ug/Kg	U	YES		1	١				1				-		,,,,,,,,,,		1
Heptachlor	10.3		ug/Kg	U	YES		1			1										1
Heplachlor epoxide	10.3	ì	ug/Kg	U	YES :		1	1	ı	}			l i				1			
Heptachlor epoxide	10.3		ug/Kg	U	YES		1	1			Į						1			į
Methoxychlor	10.3		ug/Kg	U	YES	į	1					1								
Methoxychlor	10,3	1	ug/Kg	υ	YES			1									l			1
Foxaphene	34.2	1	ug/Kg	U	YES		1	1	I			1					ı			

Project Number and Name:

11-032E - 11-032E Carroll Agent Orange

Library Used:

Report Date: 9/6/2011 10:37

CampCarroll

ADR 8.2

* 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

Page 20 of 182

Client Sample ID: E11-139-S1 Sample Date: 07/18/2011 Lab Report Batch: 31101915

Analysis Type: RES

Lab ID : SGSW

Sample Matrix : SO

Lab Sample ID: 31101915026

Reviewed By / Date:

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual		Overal Quat*	l Temp	нт	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CCV
Analysis Method : 8081					Dilutio							Бар								
	34.2	:	ug/Kg	U	YES				i			i	ı	}	l I		1 :		ŀ	ı
Toxaphene Analysis Method: 8151		i			Dilutio		.i				!	·		i	!!		.1			ł
2,4,5-T	0.0174	;	mg/kg	U	YES	UJ	: 1		[UJ	!	l	1	1	1 1		1			1
2,4,5-T	0.0174		mg/kg	U	YES	UJ	.: i		 	i UJ	: }	<u>:</u> 	i		:: 				 	i [
2,4,5-TP (Silvex)	0.0174		mg/kg	U	YES	•	.;		i	: 	: }	:	 		! 		i		 	i
2,4,5-TP (Silvex)	0.0174		mg/kg	U	YES		i i		i	 !	ί	` 	` 	: 1	! 				J	i I
2,4'-D	0.0174		mg/kg	U	YES	UJ	·ii		<u> </u>	· ···	: 	\ 	i	: 	i i		i		 	i
2,4'-D	0.0174		mg/kg	υ	YES	IJ	ii		 	' UJ	' 	! !	i]	! 	••••			: [
2,4-D8	0.0174		mg/kg	υ	YES	บป	· · · · · · · · · · · · · · · · · · ·		 I	 UJ	/	1 1	i		i i				' 	i
2,4-DB	0.0174		mg/kg	U	YES	UJ	·		 	UJ	/ 		i	 (i		i		 	i
Dicamba	0.0174		mg/kg	U	YES	UJ	ii		 [UJ	: !	:	¦	<i>:</i> 	i		1		: 	i
Dicamba	0.0174		mg/kg	υ	YES		1 1		 	UJ	} }	:	i	: 	i		i		' 	:
Analysis Method : 8260B	. F				Dilutio		.:			·					·		*			1
1,1,1,2-Tetrachloroethane	3.94		ug/Kg	U	YES				i					i			Ĭ .			
1,1,1-Trichloroelhane	3.94		ug/Kg	υ	YES	•••••	i i								1 1					1
1,1,2,2-Tetrachioroethane	3.94		ug/Kg	Ų	YES		1						1				1			l
1,1,2-Trichloroethane	3.94		ug/Kg	υ	YES		1		1		}									1
1,1-Dichloroethane	3,94		ug/Kg	υ	YES		1								1		;			1
1,1-Dichloroelhene	3.94		ug/Kg	U	YES)		1		1			[
1,1-Dichloropropene	3.94		ug/Kg	U	YES															'
1,2,3-Trichlorobenzene	3.94		ug/Kg	U	YES				1						i					'
1,2,3-Trichloropropane	3.94		ug/Kg	U	YES		1						<u></u>		[! !
1,2,4-Trichlorobenzene	3.94		ug/Kg	ប	YES		1													
1,2,4-Trimethylbenzene	3.94		ug/Kg	U	YES			*****												1
1,2-Oibromo-3-chloropropane	23.6		ug/Kg	U	YES				l								1			
1,2-Dibromoethane	3,94		ug/Kg	U	YES															
1,2-Dichlorobenzene	3.94		ug/Kg	U	YES		1									.,,				

Project Number and Name:

11-032E - 11-032E Carroll Agent Orange

Library Used:

Report Date: 9/6/2011 10:37

CampCarroll

Page 21 of 182

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

Client Sample ID : E11-139-S1

Lab Report Batch: 31101915

Lab ID: SGSW

Sample Date: 07/18/2011

Analysis Type: RES

Sample Matrix : SO

Lab Sample ID: 31101915026

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual		Overall Qual*		HT	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	ıc	ICV	CCV CV/
Analysis Method : 8260B					Dilutio	on: 1	•													
1,2-Dichloroethane	3.94		ug/Kg	U	YES		i i					į			[
1,2-Dichloropropane	3,94		ug/Kg	U	YES		1				!	{								
1,3,5-Trimethylbenzene	3.94		ug/Kg	ีย	YES						-				1					
1,3-Dichlorobenzene	3.94		ug/Kg	U	YES		ļ		ĺ			l			1		1		ſ	f
1,3-Dichloropropane	3.94		ug/Kg	U	YES				 					!	1					
1,4-Dichlorobenzene	3.94		ug/Kg	U	YES									}						1
2,2-Dichloropropane	3.94		ug/Kg	U	YES		i l													
2-Bulanone	21.6		ug/Kg		YES										j i				1	1
2-Chiorololuene	3,94		ug/Kg	ប	YES		1								<u> </u>				1	1
2-Hexanone	9,84		ug/Kg	U	YES		ı]	ĺ
4-Chlorotoluene	3.94		ug/Kg	Ų	YES							i								l
4-Isopropyttoluene	3.94		ug/Kg	υ	YES]													1
4-Methyl-2-penianone	9.84		ug/Kg	U	YES		1										i i			1
Acelone	122		ug/Kg	j	YES		1]										
Benzene	3.94		ug/Kg	U	YES		1													1
Bromobenzene	3,94		ug/Kg	U	YES		1								l					
Bromochloromethane	3.94		ug/Kg	υ	YES								1		l 1					
Bromodichloromethane	3.94		ug/Kg	U	YES		1				-						ſ			į
Bromoform	3.94		ug/Kg	U	YES		1			1		I			l i					1
Bromomethane	3.94		ug/Kg	υ	YES		1										ı			1
Carbon disulfide	3.94		ug/Kg	U	YES		1	I		1					ĺ			1		1
Carbon tetrachloride	3.94		ug/Kg	U	YES		1			i	1									1
Chlorobenzene	3.94		ug/Kg	U	YES :						1	1					į			1
Chloroethane	3.94		ug/Kg	U	YES :		1	· · · · · · · ·	1	i		1	}			i	1	Ì		į
Chloroform	3,94		ид/Кд	U	YES	: 	i	1		1		i	i				-			1
Chloromelhane	3,94		ug/Kg	បៈ	YES				ا											/

Project Number and Name:

11-032E - 11-032E Carroll Agent Orange

Library Used: Cam

Report Date: 9/6/2011 10:37

Page 22 of 182

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

Client Sample ID : E11-139-S1

Sample Date : 07/18/2011 Lab Sample ID: 31101915026 Lab Report Batch: 31101915

Analysis Type: RES

Lab ID: SGSW

Sample Matrix: SO

Reviewed By / Date :

Approved By / Date:

Moist	Rep Limit			Surr			Lab Dup		4s	MS	MS			Surr	ıre					Field QC	Tune	IC	ICV	CV/

	1	1	1		1	1								1	1	1						1		T
1	1	1	1		ï	I								1		[1		1		1	1	1	1
1	,, 				ï	1]))]]		1	i		1	1	1				1	1
1					ï												1		1		i	1		1
1				l	ī	ı		}	}			}		l					1					ı
1					ī	·····	,	,]]					····i	1	1			1		
1			1		ī	1	1	,						1			1	1	1					1
1					ï		1	1									1	1	1				1	1
1					ï		[ĺ		1			- 1	1	1				1	1
1					Ϊ.												1	1	1				1	1
	1	1	1		ï										į	}	1		1				1	
	1	(1		1	1	[1	1		ļ	1		1	ĺ	í	····i		Ì				1	
1					Ī	1	,	;				,	• • • • • • •		1		1	1	1	.,,		1	1	1
1					Ī									ĺ			1	1	1			į	1	1
1					[[1		1	ļ		1
i					[]								[ì				1	1
	Ī	1			[]								[1		1		1		1		}	1
1	1	1	1		1	1								1	1	1	1				1	1	1	1
1	Perate	New Assessment	1		1	-									1	No.	-	1	1				1	1
ŀ	}	Ì	ŀ		1	1		1	1		1	1			1	ļ	1	}		·	ļ	l	1	
1					1	1		1	1		1	1		1							[<u> </u>	1	1
1					1	l		1	1		1	1					1	ł	1		l	<u> </u>	1	
		1			1	1			1		1	1		l		<u>l</u>		1	1		<u> </u>	<u> </u>	1	<u> </u>
. 1		ĺ	I		ĺ	l									ij			1	Ĭ.			<u> </u>	1	1
		1	Ì		I			Ĭ						l	ij			1	Ĺ		1	<u> </u>	.1	1
1	Ì	1	1		-										Ï		ı	1	1		1	1		1
	 	<u> </u> 	 		1	! !								 	 	 								

Project Number and Name:

11-032E - 11-032E Carroll Agent Orange

Library Used:

CampCarroll

Page 23 of 182

ADR 8.2 Report Date: 9/6/2011 10:37
* Overalt result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

Client Sample ID: E11-139-S1

Lab Report Batch: 31101915

Lab ID: SGSW

Sample Date: 07/18/2011

Analysis Type: RES

Sample Matrix : SO

Lab Sample ID: 31101915026

Reviewed By / Date :

Approved By / Date:

Analysis Method : 8260B Vinyl chloride			Units	Qual	Res	Quai*	Temp	HT	MB	LCS	MS	Dup	Surr	Limit	Tot/Dis	QC	Типе	IC	ICV	CCV
Vinvi chloride					Ditutio	n: 1														
,	3.94		ug/Kg	U	YES						1	1					l i	_,,		
Analysis Method : 8270D					Dilutio	n: 1								******						
1,2,4-Trichlorobenzene	337		ug/Kg	U	YES	1								ĺ	1		l i			1
1,2-Dichlorobenzene	337		ug/Kg	υ	YES:															
1,3-Dichtorobenzene	337		ug/Kg	U	YES	ĺ							l						Ì	
1,4-Dichtorobenzene	337		ug/Kg	U	YES	1				1	1									
2,4,5-Trichlorophenol	337		ug/Kg	U	YES		i				į									
2,4,6-Trichlorophenol	337		ug/Kg	U	YES	,					ļ									
2,4-Dichlorophenol	337		ug/Kg	Ų	YES					i							1]	[
2,4-Dimethylphenol	337		ug/Kg	υ	YES										1		1			
2,4-Dinitrotoluene	337		ug/Kg	U	YES	i						 					l ([1
2,6-Dinitrolotuene	337		ug/Kg	U	YES	1									ì					1
2-Chloronaphthalene	337]	ug/Kg	υ	YES		· · · · · · · · · · · · · · · · · · ·													1
2-Chlorophenol	337		ug/Kg	U	YES		1										į			
2-Methylnaphthalene	337		ug/Kg	υ	YES															
2-Melhylphenol	337		ug/Kg	U	YES	1	i				i				l i					1
2-Nitroaniline	337		ug/Kg	υ	YES		·								i					
2-Nitrophenol	337		ug/Kg	U	YES		Ì								i i					i
and/or 4-Methylphenol	337	:	ug/Kg	U	YES		1										1			1
3-Nitroaniline	337		ug/Kg	U	YES								1				1			1
i-Bromophenyi phenyi ether	337	į	ug/Kg	U ;	YES	1]			
-Chloro-3-methylphenol	337		ug/Kg	U	YES	}		1]	1	,					1			[
I-Chloroaniline	337		ug/Kg	U	YES	· · · · · · · · · · · · · · · · · · ·		1									ſ			1
-Chlorophenyl phenyl ether	337		ug/Kg	U	YES	1	1	1		1			1		l i			ĺ		'
-Nitroanitine	337		ug/Kg	U	YES		1						1		i i					
-Nitrophenol	337	Ì	ug/Kg	U	YES :	1	1		1			ĺ	}			Ì				1
cenaphlhene	337		ug/Kg	U	YES			········	 											1

11-032E - 11-032E Carroll Agent Orange

Library Used:

CampCarroll

Report Date: 9/6/2011 10:37

Page 24 of 182

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

Client Sample ID: E11-139-S1

Lab Report Batch: 31101915

Sample Date: 07/18/2011 Lab Sample ID: 31101915026 Analysis Type: RES

Lab ID: SGSW

Sample Matrix: SO

Reviewed By / Date :

Approved By / Date:

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual		Overall Qual*	Temp	нт	МВ	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	iCV	CCV CCV
Analysis Method : 8270D					Diluti	on: 1	· · · · · · · · · · · · · · · · · · ·													
Acenaphthylene	337		ug/Kg	U	YES	:			1	1	1		1		1				1	1
Anthracene	337		ug/Kg	U	YES										1				1	l
Benzo(a)anthracene	337		ug/Kg	บ	YES				l	ļ		<u> </u>	I		<u> </u>		1		1	.1
Велго(а)ругеле	337		ug/Kg	U	YES						ļ		[!					<u> </u>	1
Benzo(b)fluoranthene	337		ug/Kg	U	YES					1	i		Į <u>.</u>		<u> </u>				1	1
Benzo(g,h,i)perylene	337		ug/Kg	U	YES						1				[]]	1
Benzo(k)fluoranthene	337		ug/Kg	υ	YES					1	į		1	}			l]	1
Bis(2-Chloroethoxy)methane	337		ug/Kg	U	YES				l	l			1						<u> </u>	
Bis(2-Chloroelhyl)elher	337]	ug/Kg	U	YES]			1				li]	Ĺ
Bis(2-Chloroisopropyl)ether	337		ug/Kg	u	YES										l i				1	.]
Bis(2-Ethylhexyl)phthalale	337		ug/Kg	U	YES														١	İ
Butyl benzyl phthalate	337		ug/Kg	υ	YES					l					l					1
Chrysene	337		ug/Kg	U	YES		ı													1
Dibenz(a,h)anthracene	337		ug/Kg	U	YES	ļ														1
Dibenzofuran	337		ug/Kg	U	YES														1	1
Diethyl phthalate	337	ì	ug/Kg	U	YES	,													1	1
Dimethyl phlhalate	337	}	ug/Kg	ឋ	YES										l				1	1
Di-n-butyl phthalate	337	}	ug/Kg	U	YES		1	1		1			}						1	1
Di-n-octyl phthalate	337		ug/Kg	U	YES	I									1				1	
Fluoranthene	337		ug/Kg	U	YES]	1)	<u> </u>
Fluorene	337	ì	ug/Kg	υ	YES	1	1												[1
Hexachlorobenzene	337	;	ug/Kg	U	YES	i]	1
Hexachlorobutadiene	337		ug/Kg	U	YES		1]									1	<u> </u>
Hexachtorocyclopentadiene	337		ug/Kg	V	YES														1	1
Hexachloroethane	337	1	ug/Kg	U	YES			1		l]		1	1
Indeno(1,2,3-cd)pyrene	337	:	ug/Kg	u i	YES :		1								1	1	1		1	1

Project Number and Name:

11-032E - 11-032E Carroll Agent Orange

Library Used: CampCarroll

Report Date: 9/6/2011 10:37

ADR 8.2

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

Page 25 of 182

Client Sample ID: E11-139-S1

Lab Report Batch: 31101915

Analysis Type: RES

Lab ID: SGSW

Sample Matrix : SO

Sample Date : 07/18/2011 Lab Sample ID: 31101915026

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Тетр	нт	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	1C	ICV	CCV CCV
Analysis Method : 8270D					Diluti	on: 1														
Isophorone	337	;	ид/Кд	U	YES					1				l	1					1
Naphthalene	337	,	ug/Kg	U	YES	:			1	1	1									
Nilrobenzene	337		ug/Kg	U	YES	:					}								Ì	1
n-Nitrosodi-n-propylamine	337		ug/Kg	บ	YES	:														
Pentachlorophenol	337		ug/Kg	U	YES	UJ				UJ					1					
Phenanthrene	337		ug/Kg	U	YES	:													1	
Phenol	337		ug/Kg	U	YES						Ĭ				1				1	
Pyrene	337		ug/Kg	U	YES					1	ļ				1				1	

Project Number and Name:

ADR 8.2

11-032E - 11-032E Carroll Agent Orange

Library Used: Report Date: 9/6/2011 10:37 CampCarroll

Page 26 of 182

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

5421

Client Sample ID : E11-139-S2 Sample Date : 07/18/2011 Lab Report Batch : 31101915 Analysis Type: RES Lab ID : SGSW

Sample Matrix : SO

Lab Sample ID: 31101915027

Reviewed By / Date:

Approved By / Date:

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quai		Overali Qual*		нт	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	IC	ICV	CCV
Analysis Method : 6010C					Dilutio	on: 1														
Arsenic	1.40		mg/kg		YES		Į		1				1						1	1
Barium	66.9		mg/kg		YES	,	1			ĺ										1
Cadmium	0.636		mg/kg		YES	u	[[U]	[1
Chromium	3.73		mg/kg	,	YES					1		1	1		1				1	I
Lead	6.57		mg/kg		YES						Í			[
Selenium	2.05		mg/kg	U	YES]									.,				
Silver	1.02		mg/kg	U	YES		1						l							1
Analysis Method : 7471B					Dilutio	n: 1														
Mercury	0.00318		mg/kg	J	YES		i l					!					1 1			1
Analysis Method : 8081					Dilutio	n: 1														
4,4'-DDD	10.1	İ	ug/Kg	U	YES		1]				l	1
4,4'-DDD	10.1		ug/Kg	U	YES		1								<u> </u>		<u> </u>		l	1
4,4'-DDE	10.1		ид/Кд	U	YES]				l l					1
4,4'-DDE	10.1		ug/Kg	U	YES		1								1					
4,4'-DDT	10.1		ug/Kg	U	YES :										ĺ					1
4,4'-DDT	10.1	Í	ug/Kg	U	YES															
Aldrin	10.1	;	ug/Kg	U	YES												i			
Aldrin	10.1		ug/Kg	U	YES						· · · · · · · ·		· · · · · · · ·							i
aipha-BHC	10.1		ug/Kg	U	YES		1		· · · · · · i			1	,							i
alpha-BHC	10.1		ug/Kg	U	YES		1											-		
alpha-Chlordane	10.1		ug/Kg	U	YES	j				· · · · i			i				1			
alpha-Chlordane	10.1		ug/Kg	υ	YES					1]							
bela-BHC	10.1		ug/Kg	υ	YES						į	1	1				l			1
bela-BHC	10.1	:	ug/Kg	U	YES ;	i	1			ì		1	}				i			1
Chlordane	33.6	····	ug/Kg	U	YES		1	1				l				i				
Chlordane	33.6		ug/Kg	U	YES		<u>:</u>	<u>)</u> 	·i	 		······i								
delta-BHC	10.1		ug/Kg	U	YES	<u>:</u>	i	i	·1	i	· · · · · · · · · · · · · · · · · · ·									

Project Number and Name:

ADR 8.2

11-032E - 11-032E Carroll Agent Orange

Library Used: CampCarroll

Report Date: 9/6/2011 10:37

Page 27 of 182

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

Client Sample ID: E11-139-S2

Lab Report Batch: 31101915

Lab ID: SGSW

Sample Date: 07/18/2011 Lab Sample ID: 31101915027 Analysis Type: RES

Sample Matrix: SO

Reviewed By / Date :							App	roved	By /	Date :										
Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Quai*		нт	МВ	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Типе	IC	ιcv	CCV
Analysis Method : 8081					Dilutio	on: 1				***************************************										
delia-BHC	10.1		ug/Kg	U	YES					1	ļ		1	1	1			l	J	<u> </u>
Dieldrin	10.1	;	ug/Kg	U	YES								1						l	1
Dieldrin	10.1		ид/Кд	U	YES				1	1			1				1 1			1
Endosulfan I	10.1		ug/Kg	U	YES															1
Endosulfan I	10.1		ug/Kg	U	YES					1		į							1	1
Endosulfan II	10.1		ug/Kg	ប	YES							į	[1	1
Endosulfan il	10.1		ug/Kg	U	YES				1	1	ļ	}	1							1
Endosulfan sulfate	10.1		ug/Kg	U	YES					1	;	}		1						1
Endosulfan sulfate	10,1		ug/Kg	U	YES					l	 		l		1					1
Endrin	10.1		ug/Kg	U	YES		1		1						1					1
Endrin	10.1		ug/Kg	U	YES				1			i								
Endrin aldehyde	10.1		ug/Kg	U	YES	1						Į			[
Endrin aldehyde	10.1		ug/Kg	U	YES		1				}									
Endrin ketone	10.1		ug/Kg	U	YES						1				1			,,		
Endrin ketone	10,1		ug/Kg	U	YES	1														
gamma-BHC (Lindane)	10.1	,	ug/Kg	U	YES	1														
gamma-BHC (Lindane)	10.1		ug/Kg	U	YES	1														}
gamma-Chlordane	10.1	,	ug/Kg	U	YES :		1	,									}			
gamma-Chiordane	10.1	1	ug/Kg	U	YES		١													
Heptachlor	10.1		ug/Kg	U	YES										1					ĺ
Heplachlor	10.1		ug/Kg	U	YES	1									[
Heplachlor epoxide	10.1		ug/Kg	U	YES	1	1								ĺ					
Heptachlor epoxide	10 1		на/Ка	ti i	YES	1	I													1
Methoxychlor	10.1		ид/Кд	U	YES		1						[
Methoxychlor	10.1		ug/Kg	U	YES		ĺ										1			
Гохарhene	33.6	1	ug/Kg	U	YES			i					1				3			1

Project Number and Name:

11-032E - 11-032E Carroll Agent Orange

Library Used:

CampCarroll

Report Date: 9/6/2011 10:37 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 Page 28 of 182

Client Sample ID: E11-139-S2

Lab Report Batch: 31101915

Lab ID : SGSW

Sample Date: 07/18/2011

Analysis Type: RES

Sample Matrix : SO

Lab Sample ID: 31101915027

Reviewed By / Date :	***************************************						App	roved	By /	Date:									
Analyte Name	Result	Uncertainty /	Result Units	Lab Qual		Overall Qual*	Temp	нт	МВ	LCS	MS	Lab Đượ	Surr	Rep Limit	Moist Tot/Dis	Tune	IC	icv	CC
Analysis Method : 8081	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				Diluti	on: 1										 			
Toxaphene	33.6		ug/Kg	U	YES					l	İ	Į	1	l	1	 1		1	1
Analysis Method : 8151			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Diluti	on: 1													
2,4,5-T	0.0165		mg/kg	U	YES	UJ	1		l	[UJ	}	1				 		<u> </u>	1
2,4,5-T	0.0165		mg/kg	U	YES	UJ				l W			1	l				1	1
2,4,5-TP (Silvex)	0.0165		mg/kg	U	YES					1					1	 		1	1
2,4,5-TP (Silvex)	0.0165		mg/kg	U	YES					1				1		 		1	1
2,4'-D	0.0165		mg/kg	U	YES	IJ				UJ				1		 1		1	1
2,4'-D	0.0165		mg/kg	U	YES	UJ	1			UJ								1	I
2,4-DB	0.0165		mg/kg	U	YES	IJ	1			ŲJ			1	1		 1]	1
2,4-DB	0.0165		mg/kg	U	YES	UJ	· · · · · · · · · · · · · · · · · · ·			UJ					i	 		1	1
Dicamba	0.0165		mg/kg	U	YES	IJ	1			ປປ		 			1	 i i			İ
Dicamba	0.0165		mg/kg	U	YES	UJ	1			UJ	i				i			1	1
Analysis Method : 8260B					Dilutio	n: 1										 			
1,1,1,2-Tetrachioroethane	4.65		ug/Kg	Ų	YES		ı	i		Í	ì	(1						
1,1,1-Trichloroelhane	4.65		ug/Kg	บ	YES										1	 		1	-
1,1,2,2-Tetrachloroethane	4.65		ug/Kg	U	YES	i	I								i	 			
1,1,2-Trichloroethane	4.65		ug/Kg	U	YES					l					1	 			1
1,1-Dichloroethane	4.65		ug/Kg	U	YES		· · · · · · · · · · · · · · · · · · ·					 				 			1
1,1-Dichloraelhene	4.65		ug/Kg	υ	YES		i									 		1	ĺ
1,1-Dichioropropene	4.65		ug/Kg	υ	YES							·····				 		1	Ì
1,2,3-Trichlorobenzene	4.65		ug/Kg	U	YES	1			1							 		 I	l
1,2,3-Trichloropropane	4.65		ug/Kg	U	YES	1						 				 l		i	1
1,2,4-Trichlorobenzene	4.65		ug/Kg	U	YES	1	1									 		1	
1,2,4-Trimelhylbenzene	4.65		ug/Kg	U	YES	İ	i	i]
1,2-Dibromo-3-chloropropane	27.9		ug/Kg	U	YES :											 			i
1,2-Dibromoethane	4,65	Í	ug/Kg	U	YES	i	i		············						i	 		1	l
1,2-Dichlorobenzene	4,65	·	ug/Kg	U	YES		<u>:</u> .	·i					:		i	 i		 I	:

Project Number and Name:

11-032E - 11-032E Carroll Agent Orange

Library Used: CampCarroll

Report Date: 9/6/2011 10:37

Page 29 of 182

^{*} 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

Client Sample ID: E11-139-S2

Sample Date: 07/18/2011

Lab Sample ID: 31101915027

Lab Report Batch: 31101915

Analysis Type: RES

Lab ID : SGSW

Sample Matrix: SO

Reviewed By / Date :							App	roved	By /	Date										
Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quai	Rep Res	Overall Qual*	Temp	нт	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	IC	ICV	CCV
Analysis Method : 8260B					Dituti	on: 1														
1,2-Dichloroethane	4.65		ид/Кд	บ	YES	:			1	1		-		Ĭ		}	1	1		1
1,2-Dichloropropane	4.65		ug/Kg	U	YES							į	[1						
1,3,5-Trimethylbenzene	4,65	;	ug/Kg	U	YES	:			1		1	1	1		1		1			
1,3-Dichterobenzene	4.65		ug/Kg	U	YES	:				1	1		1	Í	1		1	1]	
1,3-Dichloropropane	4.65		ug/Kg	U	YES	: 1											1	(1
1,4-Dichlorobenzene	4.65		ug/Kg	U	YES				1								l		1	-
2,2-Dichloropropane	4.65		ug/Kg	U	YES				1	1										
2-Butanone	12.1		ug/Kg	j	YES]		1					l		1	1
2-Chlorololuene	4.65		ug/Kg	U	YES		//////////					1					1	ĺ		1
2-Нехапопе	11.6		ug/Kg	v	YES							1							}]
4-Chlorotoluene	4.65		ug/Kg	U	YES			******		1	1				1]		1	1
4-Isopropyttoluene	4.65	ì	ug/Kg	U	YES								1							[
4-Methyl-2-pentanone	11.6		ид/Кд	U	YES							1					Ì			1
Acetone	44.7		ug/Kg	J	YES]	1]			İ					1
Benzene	4.65		ug/Kg	U	YES	1		:		1	}							l		1
Bromabenzene	4.65		ug/Kg	U	YES					1]	İ					ĺ	i	1	
Bromochloromelhane	4.65		ug/Kg	U	YES		1			1	[1					l	1	1
Bromodichloromethane	4.65	;	ug/Kg	Ų	YES	- 1	1			1		ĺ	1							1
Bromoform	4.65	ì	ug/Kg	U	YES	- 1	- 1			ŀ	Ï	Į			1				l	
Bromomelhane	4.65		ug/Kg	U	YES	}	1]	1			}					
Carbon disulfide	4.65	-	ug/Kg	U	YES	ı	1			1	1		[l	1
Carbon letrachloride	4.65	;	ug/Kg	υ	YES	İ	1			1	1		1		l				l	1
Chlorobenzene	4 65		HQ/KQ	u j	YES	j	-			1			l							<u> </u>
Chloroethane	4.65		ug/Kg	ម	YES														l	l
Chloroform	4.65	;	ug/Kg	u ;	YES		i						1						1	l
Chloromethane	4.65		ug/Kg	U	YES		1								1					

Project Number and Name:

11-032E - 11-032E Carroll Agent Orange

Library Used: CampCarroll

Page 30 of 182

Report Date: 9/6/2011 10:37 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

Client Sample ID: E11-139-S2

Lab Report Batch: 31101915

Sample Date: 07/18/2011 Lab Sample ID: 31101915027 Analysis Type: RES

Sample Matrix: SO

Lab ID: SGSW

Reviewed By / Date:

Approved By / Date:

Result	Uncertainty /	Result Units	Lab Qual				нт	МВ	LCS	MS	Lab Dup	Surr	Rep Limit		Field QC	Tune	ıc	icv	CCA CA1
4.65	:	ug/Kg	Ų	YES	:	1		1			!	[1 1					
4.65		ug/Kg	Ų	YES	;			1		 	}		}						ĺ
4.65		ug/Kg	U	YES	:					;]	!	1	1	1					
4.65		ug/Kg	U	YES						.		1	<u> </u>						1
4.65		ug/Kg	υ	YES						i									
4.65		ug/Kg	υ	YES							 								
4.65		ug/Kg	U	YES		1								i i					
		ug/Kg	U	YES				` 											
9.29		ug/Kg	U	YES		[1								
4.65			U	YES		i i					1	1							1
2.46		ug/Kg	J	YES]					[1
4.65		ид/Кд	U	YES															1
4.65		ug/Kg	U	YES		i I						i							
4,65		ug/Kg	U	YES		i I							.,,			į			
4.65		ug/Kg	υ	YES		1				ì						1			
4.65		ug/Kg	ย	YES		1					[
4.65		ug/Kg	U	YES		1													1
4.65		ug/Kg	U	YES															1
4.65		ug/Kg	υ	YES		1 1													
4.65		ug/Kg	U	YES															
4.65		ug/Kg	U	YES		1 1		1								1	1		
4.65		ug/Kg	U	YES	IJ	1		1	UJ					1		Ì	1		
4 65	Î	па/Ка	u	YES						i				[1
23.2		ид/Кд	U	YES										-					1
4.65		ug/Kg	U	YES													1		l
4.65	1	ug/Kg	U	YES			1			1			I	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·			1
	4,65 4,65 4,65 4,65 4,65 4,65 4,65 4,65	Result Error 4.65 4.65 4.65 4.65 4.65 4.65 4.65 4.6	Result Error Units 4.65 ug/Kg 4.65 ug/Kg 4.65 ug/Kg 4.65 ug/Kg 4.65 ug/Kg 4.65 ug/Kg 4.65 ug/Kg 4.65 ug/Kg 9.29 ug/Kg 4.65	Result Error Units Qual	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result Error Units Qual Res Qual Temp HT MB LCS MS Dup Surr Limit Tot/Dis QC	Result Error Units Qual Res Qual Temp HT MB LCS MS Dup Surr Limit ToUDIS QC Tune	Result Error Units Qual Res Qual Temp HT MB LCS MS Dup Surr Limit Tot/Dis QC Tune IC	Result Error Units Qual Res Qual* Temp HT MB LCS MS Dup Sur Limit Tot/Dis QC Tune IC ICV

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

Library Used:

CampCarroll

ADR 8.2

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

Page 31 of 182

5426

Report Date: 9/6/2011 10:37

Client Sample ID: E11-139-S2

Lab Report Batch: 31101915

Lab ID : SGSW

Sample Date : 07/18/2011 Lab Sample ID: 31101915027 Analysis Type: RES

Sample Matrix : SO

Reviewed By / Date:

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual		Overall Quai*		нт	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Типе	1C	ICV	CCA
Analysis Method : 8260B	.,,				Difuti	on: 1						· · · · · · · · · · · · · · · · · · ·								
Vinyl chloride	4.65		ug/Kg	U	YES						l									1
Analysis Method : 8270D					Diluti	on: 1						.,.,,								
1,2,4-Trichlorobenzene	328		ug/Kg	U	YES							l	1		1]		1	1
1,2-Dichforobenzene	328		ug/Kg	U	YES						Į		1	}			į		1	
1,3-Dichlorobenzene	328		ug/Kg	U	YES					l	1	1	1						<u> </u>	l
1,4-Dichlorobenzene	328		ug/Kg	U	YES					l	É	į	1				l]	
2,4,5-Trichlorophenol	328		ug/Kg	υ	YES						(3							1	İ
2,4,6-Trichlorophenol	328		ug/Kg	U	YES							}							l	1
2,4-Dichlorophenol	328		ug/Kg	U	YES	: 1							-							1
2,4-Dimethylphenol	328		ug/Kg	U	YES								Ì							
2,4-Dinitrololuene	328		ug/Kg	U	YES	įi									1				1	
2,6-Dinitrotoluene	328		ug/Kg	U	YES		1					ļ					}		1	1
2-Chioronaphthalene	328		ug/Kg	U	YES]]								
2-Chiorophenol	328		ug/Kg	ប	YES										j		ļ			l
2-Melhylnaphthalene	328		ug/Kg	U	YES		1		-]					
2-Methylphenol	328		ug/Kg	U	YES		1						1							
2-Nitroaniline	328		ug/Kg	Ų	YES							1								
2-Nitrophenol	328		ug/Kg	U	YES		i	J	I			i			1		1		1	
3 and/or 4-Methylphenol	328		ug/Kg	U	YES						.,,,,,,,,	į.	1				į			
3-Nitroaniline	328		ug/Kg	U	YES			}]							
4-Bromophenyl phenyl ether	328		ug/Kg	ម	YES		ļ			J]							
4-Chioro-3-methylphenol	328		ug/Kg	U	YES		ļ]				[1					
4-Chloroaniline	328		ug/Kg	U	YES		1	1	1											
4-Chlorophenyl phenyl ether	328		ug/Kg	U	YES	1							1		1		I			
4-Nitroaniline	328		ug/Kg	U	YES				ĺ	j		 	1							
4-Nitrophenol	328		ug/Kg	υ	YES							}					1			
Acenaphthene	328		ug/Kg	υ	YES							}					1			

Project Number and Name:

11-032E - 11-032E Carroll Agent Orange

Library Used: Report Date: 9/6/2011 10:37

CampCarroll

ADR 8.2

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.

Page 32 of 182

Client Sample ID: E11-139-S2

Lab Report Batch: 31101915

Lab ID : SGSW

Sample Date: 07/18/2011 Lab Sample ID: 31101915027 Analysis Type: RES

Sample Matrix: SO

Reviewed By / Date :							App	roved	ı By /	Date :	: ·	,								
Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*		нт	мв	LCS	MS	Lab Dup	Surr		Moist Tot/Dis	Field QC	Tune	iC	łCV	CV/
Analysis Method : 8270D				,=======	Diluti	on: 1														
Acenaphthylene	328		ug/Kg	U	YES	: :				Ì	1	1		j	1				1	1
Anthracene	328	:	ug/Kg	U	YES						-	ļ		1	1					
Benzo(a)anthracene	328		ug/Kg	Ų	YES	i i				1				ĺ			1			
Benzo(a)pyrene	328	:	ug/Kg	Ų	YES]				[ĺ	1		1		1			
Benzo(b)fluoranlhene	328		ug/Kg	Ų	YES	:			1	1					1		1		1	1
Benzo(g,h,i)perylene	328		ид/Кд	U	YES	;				1					1					1
Benzo(k)fluoranthene	328		ug/Kg	Ų	YES					 										
Bis(2-Chloroethoxy)methane	328		ug/Kg	Ų	YES						ì			İ	1		İ			İ
Bis(2-Chloroethyl)ether	328		ug/Kg	U	YES					l	}	1	1	}			1		1	1
Bis(2-Chloroisopropyl)ether	328		ug/Kg	U ;	YES							1	1				f			
8is(2-Elhylhexyl)phlhalale	328		ид/Кд	U	YES		1					[}						[
Butyl benzyl phthalate	328		ug/Kg	U	YES	1	1			1									[
Chrysene	328		ug/Kg	U	YES						}					*****			1	1
Dibenz(a,h)anthracene	328		ug/Kg	U	YES	. I	1			1	}	}			1	*******				
Dibenzoluran	328		ug/Kg	U	YES							ì	l		1				1	
Diethyl phthalale	328		ug/Kg	U	YES		1							}						
Dimethyl phthalate	328		ug/Kg	Ų	YES	1	1						ļ							ĺ
Di-л-butyl phthalate	328		ug/Kg	U	YES	Ì		1				l			1 1					
Di-n-octyl phthalate	328		ид/Кд	U	YES	1	1				1		1							1
Fluoranthene	328		ид/Ко	U	YES						1]								l
Fluorene	328		ug/Kg	U	YES	i]]			}	1								1
Hexachlorobenzene	328		ug/Kg	υ	YES	1	1	1	-			{								
Hexachlombuladiene	328		ид/Ка	U	YES	}	1	1											1	<u> </u>
Hexachlorocyclopentadiene	328		ug/Kg	U	YES		1	I	ı				[. ,		
Hexachloroethane	328		ug/Kg	U	YES															1
indeno(1,2,3-cd)pyrene	328		ug/Kg	U	YES			1]			1				1	1

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

Library Used: CampCarroll

Page 33 of 182

Report Date: 9/6/2011 10:37 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

Client Sample ID : E11-139-S2

Lab Report Batch: 31101915

Lab ID : SGSW

Sample Date : 07/18/2011 Lab Sample ID: 31101915027 Analysis Type: RES

Sample Matrix : SO

Reviewed By / Date:

Approved By / Date:

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overaff Qual*	Temp	нт	мв	LCS	мѕ	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CCA CA1
Analysis Method : 8270D	,.				Dituti							•								
Isophorone	328		ug/Kg	U	YES			1			į	l	<u> </u>	<u> </u>			[]		1	1
Naphthalene	328		ug/Kg	U	YES							l		<u> </u>	1				1	1
Nitrobenzene	328		ug/Kg	U	YES				1			ĺ					1		<u> </u>	1
n-Nitrosodi-n-propytamine	328		ug/Kg	U	YES	[1	1	l	1		1 (<u> </u>	1
Pentachlorophenol	328		ug/Kg	U	YES	UJ				บม		!	1	į	1		1 1		J	1
Phenanthrene	328		ug/Kg	U	YES					1		}							1	
Phenol	328		ug/Kg	ឋ	YES				· · · · · · ·	1		1		1						
Pyrene	328		ug/Kg	U	YES			i		i										

Project Number and Name: 11-032E - 11

11-032E - 11-032E Carroll Agent Orange

Library Used: Cam

Report Date: 9/6/2011 10:37

CampCarroll

ADR 8.2

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

Page 34 of 182

Client Sample ID : E11-139-S3

Lab Report Batch: 31101915

Lab ID : SGSW

Sample Date : 07/18/2011 Lab Sample ID: 31101915028 Analysis Type: RES

Sample Matrix : SO

Reviewed By / Date:

Approved By / Date:

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual		Overali Quai*	Temp	HŦ	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Moist ToUDis	Tune	IC	ICV	CCV
Analysis Method : 6010C					Dilutio	on: 1										 			
Arsenic	1.29		mg/kg		YES	į						1	1					1	l
Barium	58.4		mg/kg		YES				1		1	Ì		ĺ	l 1			1	
Cadmium	0.592		mg/kg		YES	U			U		}	(1	
Chromium	3.35		mg/kg		YES				l	l			ĺ			 			1
Lead	5.56		mg/kg		YES	I				l					1			[1
Selenium	1,91		mg/kg	U	YES	١			}							 (1	1
Silver	0.955		mg/kg	U	YES					[1	}				1	1
Analysis Method : 7471B					Dilutio	n: 1										 			
Mercury	0.00320		mg/kg	J	YES	1	- 1				l		1			 <u> </u>		ļ	
Analysis Method : 8081					Dilutio	n: 1													
4,4'-DDD	9.94		ug/Kg	U	YES				<u>[</u>]	l		l	ļ <i></i>		ll				<u> </u>
4,4'-DDD	9,94		ug/Kg	υj	YES	1	1		[<u>.</u>						 			l
4,4-DDE	9.94		ug/Kg	U	YES					<u> </u>	<u> </u>		i i		li]]	<u> </u>
4,4'-DDE	9.94		ug/Kg	U	YES					l					L	 l.,,,,,,,			<u> </u>
4,4'-DDT	9.94		ug/Kg	U	YES	j				<u> </u>			[l	<u> </u>
4,4'-DDT	9.94	į	ug/Kg	U	YES]		li	 		l	ļ
Aldrin	9.94	į	ug/Kg	υ	YES	1	1									 			1
Aldrin	9.94		ug/Kg	U	YES	1										 			
alpha-BHC	9.94		ug/Kg	U	YES	l													
alpha-BHC	9.94		ug/Kg	U	YES										i				
alpha-Chlordane	9,94	į	ug/Kg	υ	YES				l	İ					}	 			!
alpha-Chlordane	9.94		ug/Kg	U	YES														
beta-BHC	9.94		ug/Kg	u	YES		ĺ		ĺ		į					j			[
beta-BHC	9.94		ug/Kg	Ų	YES								}			1			
Chlordane	33.1	· · · · · · · · · · · · · · · · · · ·	ug/Kg	υ	YES		1									1			
Chlordane	33.1	;	ug/Kg	υ	YES				······					1	}	 }			
della-BHC	9.94		ug/Kg	U	YES	1									1	 }			1

Project Number and Name:

ADR 8.2

11-032E - 11-032E Carroll Agent Orange

Library Used: Report Date: 9/6/2011 10:37

CampCarroll

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

Page 35 of 182



Client Sample ID: E11-139-S3

Lab Report Batch: 31101915

Lab ID: SGSW

Sample Date: 07/18/2011 Lab Sample ID: 31101915028 Analysis Type: RES

Sample Matrix : SO

Reviewed By / Date:

Approved By / Date:

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quai		Overall Quat*		нт	мв	LCS	MS	Lab Dup	Sur	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	(CV	CCV
Analysis Method : 8081					Diluti	on: 1														
delta-BHC	9.94	•	ug/Kg	U	YES															1
Dieldrin	9.94		ug/Kg	U	YES				1					1			1		1	
Oieldrin	9.94		ug/Kg	U	YES													.,	1	
Endosulfan i	9.94		ug/Kg	υ	YES								1		Ì		l I		1	1
Endosulfan I	9.94		ug/Kg	υ	YES	}														1
Endosulian II	9.94		ug/Kg	υ	YES				1											-
Endosulfan II	9.94		ug/Kg	U	YES				1										[
Endosulfan sulfate	9.94		ug/Kg	Ų	YES					[ĺ				l i			
Endosulfan sulfate	9.94		ug/Kg	U	YES												l			1
Endrin	9,94		ug/Kg	U	YES				ĺ]					1
Endrin	9.94		ug/Kg	U	YES										1				ĺ	Ï
Endrin aldehyde	9.94		ug/Kg	U	YES		ı		1]			
Endrin aldehyde	9.94		ug/Kg	U	YES		[1						1		1			
Endrin kelone	9.94		ug/Kg	ប	YES		1					1			1			•		1
Endrin kelone	9,94		ug/Kg	U	YES		1			İ								• •		
gamma-BHC (Lindane)	9,94		ug/Kg	Ų	YES		1													
gamma-BHC (Lindane)	9.94		ug/Kg	U	YES		· · · · · · · · · · · · · · · · · · ·				i						}			
gamma-Chlordane	9.94		ug/Kg	υ	YES						1	l								
gamma-Chlordane	9.94		ug/Kg	U	YES						ĺ	i		Ī	1					1
Heplachlor	9.94		ug/Kg	U	YES		1													l
Heplachlor	9.94		ug/Kg	U	YES		1	1			i	[į		
Heplachlor epoxide	9.94	;	ug/Kg	บ	YES			1				1				1				1
Heptachtor epoxide	9.94	Ĭ	ug/Kg	Ų	YES :		1			}	1	1	1			1	1			[
Methoxychior	9.94		ug/Kg	U	YES			[1	ſ	***************************************	1	}	ĺ	1	İ	Ę	ĺ]
Methoxychlor	9,94		ug/Kg	U	YES		1		ا		ſ		1	····	1		1			I
Toxaphene	33,1		ug/Kg	υ	YES		1				I	1	I			1	i			!

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

Library Used: CampCarroll

ADR 8.2

Report Date: 9/6/2011 10:37

Page 36 of 182

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

Client Sample ID : E11-139-S3

Lab Report Batch: 31101915

Lab ID: SGSW

Sample Date: 07/18/2011

Analysis Type: RES

Sample Matrix: SO

Lab Sample ID: 31101915028

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res		Temp	нт	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Tune	IC	ICV	CCV CCV
Analysis Method : 8081					Dilutio	n: 1													
Toxaphene	33.1		ug/Kg	U	YES						[1	1			 			
Analysis Method : 8151					Dilutio	n: 1										 			
2,4,5-T	0.0169	<u> </u>	mg/kg	υ	YES				l	<u> </u>		Ì		1	1 1	 		1	1
2,4,5-T	0.0169		mg/kg	υ	YES					1]		1	!	l	 		1	1
2,4,5-TP (Silvex)	0.0169		mg/kg	U	YES:				<u> </u>	1	1	<u> </u>	1	l	l	 <u> </u>		1	1
2,4,5-TP (Silvex)	0,0169	<u> </u>	mg/kg	U	YES				l	1	1	ļ	1	l	1			1	
2,4'-D	0.0169	<u> </u>	mg/kg	U	YES						1		1	<u> </u>	1	 		J	1
2,4'-D	0.0169	;	mg/kg	U	YES							į	1	ļ	! !	 		<u> </u>	1
2,4-08	0.0169		mg/kg	U	YES	ŲJ				เกา]	l	İ	1!	 		<u> </u>	1
2,4-D8	0.0169		mg/kg	Ų	YES	IJ	1			UJ		1				 		1	
Dicamba	0,0169		mg/kg	U	YES					ļ		ĺ	İ	į	ll	 l i			ļ
Dicamba	0.0169		mg/kg	U	YES						}	ļ	1	Ì				l	J
Analysis Method : 8260B					Dilutio	n: 1													
1,1,1,2-Yetrachloroethane	4,59		ug/Kg	ប	YES		1				l	Ĺ	1	<u> </u>		 1		<u> </u>	1
1,1,1-Trichloroethane	4.59		ug/Kg	U	YES ;					l	l	l	<u> </u>			 		<u> </u>	ļ
1,1,2,2-Tetrachloroethane	4.59		ug/Kg	U	YES ;						<u> </u>	<u> </u>	1			 <u> </u>		<u> </u>	
1,1,2-Trichloroethane	4.59		ug/Kg	υ	YES					l		l	1		li	 		<u> </u>	<u> </u> '
1,1-Dichloroethane	4.59		ug/Kg	υ	YES :	l	[į	<u> </u>					l <i></i>	1
1,1-Dichloroe(hene	4.59	į	ug/Kg	U	YES		-	l					l			 		l	l
1,1-Dichloropropene	4.59	į	ug/Kg	U	YES	1	1	J				ĺ			1				<u> </u>
1,2,3-Trichlorobenzene	4.59		ug/Kg	U	YES		1						[1	j			<u> </u>
1,2,3-Trichloropropane	4.59		ug/Kg	U	YES ?	1									i	1			ļ
1,2,4-Trichlorobenzene	4.59		ug/Kg	U	YES								l]]
1,2,4-Trimethylbenzene	4.59		ug/Kg	ប	YES														
1,2-Dibromo-3-chloropropane	27.5		ug/Kg	U	YES		-	1				}							
1,2-Dibromoethane	4.59		ug/Kg	U	YES		1	١					1						
1,2-Dichlorobenzene	4.59		ug/Kg	υ	YES	,													

Project Number and Name:

11-032E - 11-032E Carroll Agent Orange

Library Used:

CampCarroll

ADR 8.2

Report Date: 9/6/2011 10:37

Page 37 of 182

^{*} 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

Client Sample ID: E11-139-S3

Lab Report Batch: 31101915

Lab ID ; SGSW

Sample Date: 07/18/2011

Analysis Type: RES

Sample Matrix : SO

Lab Sample ID: 31101915028

Reviewed By / Date :

Approved By / Date:

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*		нт	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist ToVDis		Tune	IC	icv	CCV
Analysis Method : 8260B					Dilutio	on: 1									~~~~		,			
1,2-Dichloroethane	4.59		ug/Kg	υ	YES				<u> </u>	1			1		<u> </u>		1		I	1
1,2-Dichloropropane	4.59		ug/Kg	U	YES								[1		l l		}	1
1,3,5-Trimethylbenzene	4.59		ug/Kg	U	YES				1	1			[!	1		<u> </u>			
1,3-Dichlorobenzene	4.59		ug/Kg	U	YES		[1		Į		[1		<u> </u>			<u> </u>
1,3-Dichloropropane	4.59		ug/Kg	U	YES				1								<u>L</u>		l	<u> </u>
1,4-Dichlorobenzene	4,59		ug/Kg	U	YES						l.		1	1			Ĺ		l	<u> </u>
2,2-Dichloropropane	4.59		ug/Kg	υ	YES						1			}			1		l	1
2-Butanone	23.0		ug/Kg	U	YES				1		}			ĺ					l	
2-Chlorotoluene	4.59		ug/Kg	U	YES												1		l	
2-Hexanone	11.5		ug/Kg	U	YES												1 .			l
4-Chlorololuene	4.59		ug/Kg	v	YES							ĺ								1
4-Isopropyitoluene	4.59		ug/Kg	υ	YES										l		l			'
4-Melhyl-2-penlanone	11.5		ug/Kg	U	YES										[]					<u> </u>
Acelone	16.2		ug/Kg	J	YES	}	1										1 1			1
Benzene	4.59		ug/Kg	υ	YES					}							1			'
Bromobenzene	4.59		ug/Kg	U	YES		I													
Bromochloromethane	4.59		ug/Kg	U	YES								}		1		1			
Bromodichloromethane	4.59		ug/Kg	U	YES												1			
Bromoform	4.59		ид/Кд	U	YES		1					1						1		1
Bromomelhane	4.59		ug/Kg	U	YES	1	1													
Carbon disulfide	4,59	į	ug/Kg	ម	YES		1				İ				l					
Carbon tetrachloride	4,59	i	ug/Kg	U	YES					į										
Chlorobenzene	4.59		ug/Kg	u	YES		1										1			1
Chloroethane	4.59		ug/Kg	U	YES							1		l	ļ			1		
Chloroform	4.59		ug/Kg	U	YES	1					- 1	1]					
Chloromethane	4.59	;	ug/Kg	U i	YES	}	1				1	1			1			1		1

Project Number and Name:

11-032E - 11-032E Carroll Agent Orange

Library Used:

Report Date: 9/6/2011 10:37 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 Page 38 of 182

Client Sample ID: E11-139-S3

Lab Report Batch: 31101915

Sample Date: 07/18/2011 Lab Sample ID: 31101915028 Analysis Type: RES Sample Matrix: SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual		Overati Qual*		нт	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	ic	icv	CCV
Analysis Method : 8260B					Dilutio	on: 1				• · · · · · · · · · · · · · · · · · · ·			***************************************							
cis-1,2-Dichloroethene	4.59		ug/Kg	U	YES					I					l					
cis-1,3-Dichloropropene	4.59		ug/Kg	U	YES					[1				I	
Dibromochloromethane	4.59		ug/Kg	U	YES]			1						
Dibromomethane	4.59		ug/Kg	U	YES					1	1		1	}	1 1				l	
Dichlorodifluoromethane	4.59		ug/Kg	U	YES								l							
Ethyl Benzene	4.59		ug/Kg	U	YES						l									
Hexachlorobutadiene	4.59	;	ug/Kg	U	YES					1										1
Isopropylbenzene (Cumene)	4.59		ug/Kg	U	YES	•••••								·····			j (i
m,p-Xylene	9.18		ug/Kg	U	YES	•••••					1		1	1	1				1	1
Methyl iodide	4.59		ид/Кд	U	YES														1	
Methylene chloride	1.92		ug/Kg	J	YES	:											į			
Naphihalene	4.59		ug/Kg	U	YES														1	1
n-Butylbenzene	4.59		ug/Kg	U	YES															1
n-Propylbenzene	4.59		ug/Kg	U	YES]			
o-Xylene	4.59		ug/Kg	υ	YES		· · · · · · · · · · · · · · · · · · ·										1			1
sec-Butylbenzene	4.59	;	ug/Kg	υ	YES												1			
Styrene	4.59		ид/Кд	υ	YES		1			}					1					i
tert-Butyl methyl ether (MTBE)	4.59	;	ug/Kg	U	YES	1	1			í					ĺ]
tert-Bulylbenzene	4.59		ug/Kg	υ	YES ;	,	1		f	ļ]
Tetrachloroethene	4.59		ug/Kg	U	YES	i	1	1	1		1					1	1		i I	
Toluene	4.59	:	ug/Kg	U	YES)	1		í				4	1	1		i l	;
trans-1,2-Dichloroethene	4.59	:	ug/Kg	U	YES	UJ		1]	IJ	1		i		1	I	-		i I	
trans-1,3-Dichloropropene	4.59		ug/Kg	U	YES	į	1	· · · · · ·					···						i i	
rans-1,4-Dichloro-2-butene	23.0	;	ug/Kg	ប	YES :	ŧ	1	1	j	1	1	ĺ	ĺ	ĺ	ĺ	i	i	1	i 1	
Trichloroethene	4.59	;	ug/Kg	U	YES :		·····i	ı	1	i]	1				1			i I	
Trichlorofluoromethane	4.59	1	ug/Kg	U i	YES									i						

ADR 8.2

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

Library Used: CampCarroll

Report Date: 9/6/2011 10:37

Page 39 of 182

Lab ID: SGSW

^{*} 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

Client Sample ID: E11-139-S3

Lab Report Batch: 31101915

Lab ID: SGSW

Sample Date: 07/18/2011 Lab Sample ID: 31101915028 Analysis Type: RES

Sample Matrix: SO

	_	Uncertainty /	Result	Lab	Rep	Overall						Lab		Rep	Moist	Lintel				CVI
Analyte Name	Result	Error	Units	Qual	Res		Temp	HT	MB	LCS	MS	Dup	Surr		Tot/Dis	QC	Tune	IC	ICV	CCV
Analysis Method : 8260B		,,,,,,			Dilu	tion: 1														
Vinyl chloride	4.59		ug/Kg	U	YES	3			1						1		1			1
Analysis Method : 8270D					Dilu	tion: 1														
1,2,4-Trichlorobenzene	336		ug/Kg	Ų	YES	3			l	1	<u> </u>						[!	<u> </u>	1
1,2-Dichlorobenzene	336	(ug/Kg	U	YES	}				1	1	ļ	1		f		1]	1
1,3-Dichtorobenzene	336		ug/Kg	U	YES	3					}	}			i i		1			1
1,4-Dichlorobenzene	336		ug/Kg	U	YES	3			1		}	1					1		1	
2,4,5-Trichlorophenol	336		ug/Kg	U	YES	3			1			(1	
2,4,6-Trichlorophenol	336		ug/Kg	U	YES	5	i		1						1				1	
2,4-Dichlorophenol	336		ug/Kg	U	YES	;			1						1				1	
2,4-Dimethylphenol	336		ug/Kg	U	YES	;			!	1					1					
2,4-Dinitrotoluene	336	1	ug/Kg	U	YES	s			1	1	;	{	1		i i					1
2,6-Dinitrotoluene	336		ug/Kg	υ	YES		1		1		,	ĺ	1		1				1	1
2-Chioronaphthalene	336		ug/Kg	Ų	YES				ĺ	· · · · · · · · · · · · · · · · · · ·) i						1	1
2-Chlorophenal	336		ug/Kg	Ų	YES				1	1					1					
2-Methylnaphthalene	336		ug/Kg	υ	YES	: 1	1					ļ								1
2-Methylphenol	336		ug/Kg	υ	YES		1			1	1				l .				1	1
2-Nitroaniline	336		ug/Kg	U	YES	1	1			1		1			i					
2-Nitrophenol	336		ug/Kg	U	YES						1									1
3 and/or 4-Melhylphenol	336		ug/Kg	U	YES	i									1					
3-Nitroaniline	336		ug/Kg	υ	YES]					!				1	
I-Bromophenyl phenyl elher	336		ug/Kg	U	YES				` · · · · · · · · · · · · · · · · · · ·						1 1				1	
I-Chloro-3-methylphenol	336		ug/Kg	u	YES		ii								l i				1	
I-Chloroaniline	336	······	ug/Kg	U	YES	T	i		 		}	}			i i					1
i-Chlorophenyl phenyl ether	336		ug/Kg	U	YES		i				·····	 							!	1
-Nitroaniline	336		ug/Kg	υ	YES	1	 I													1
-Nitrophenol	336		ug/Kg	บ	YES	1	·····				 	 	i		i	```				1
Acenaphthene	336		ug/Kg	U	YES	T	· · · · · · · · · · · · · · · · · · ·	'ا			 I		ii		i i	······			1	1

Project Number and Name:

11-032E - 11-032E Carroll Agent Orange

Library Used:

Report Date: 9/6/2011 10:37

CampCarroll

Page 40 of 182

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

Client Sample ID: E11-139-S3

Lab Report Batch: 31101915

Sample Date: 07/18/2011 Lab Sample ID: 31101915028

Sample Matrix: SO Analysis Type: RES

Lab ID: SGSW

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual		Overali Quai*		нт	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	IC	(CV	CCV
Analysis Method : 8270D					Dilutl															
Acenaphthylene	336		ug/Kg	U	YES	;			l					ļ]]				ĺ	
Anthracene	336		ug/Kg	U	YES				1		}		ĺ	1	1					1
Benzo(a)anthracene	336		ug/Kg	U	YES					Ì					1			.,,		I
Benzo(a)pyrene	336		ug/Kg	U	YES	[]					 		l		1					1
Benzo(b)fluoranthene	336		ug/Kg	ឋ	YES	: 1					 		i		į į				1	
Benzo(g,h,i)perylene	336		ug/Kg	U	YES	<u> </u>					 	<u> </u>							1	
Benzo(k)fluoranthene	336		ug/Kg	U	YES	1				1									1	1
Bis(2-Chloroethoxy)methane	336		ug/Kg	U	YES					l		•	1		1				1	1
Bis(2-Chloroethyl)ether	336		ug/Kg	U	YES				[]	i }	1						l	i
Bis(2-Chloroisopropyf)ether	336		ug/Kg	U	YES		I				}		1		1				1	i
Bis(2-Ethylhexyl)phthalale	336		ug/Kg	U	YES	;	Ì								1				1]
Butyl benzyl phthalale	336		ug/Kg	U	YES	1									i i					1
Chrysene	336	i	ug/Kg	U	YES	ĺ	1						i i							I
Dibenz(a,h)anthracene	336	i	ug/Kg	U	YES	1	1													
Dibenzofuran	336		ug/Kg	U	YES	ĺ														
Dielhyl phlhalate	336	i	ug/Kg	U	YES	1														
Dimethyl phthalate	336	:	ид/Кд	U	YES								1							
Di-n-butyl phthalate	336	Ĭ	ug/Kg	V	YES												1		į	F
Di-n-octyl phthalate	336	1	ug/Kg	U	YES										1				1	1
Fluoranthene	336	1	ug/Kg	U	YES	ı		1							}					1
Fluorene	336		ug/Kg	υ	YES	1		i			· I									
Hexachlorobenzene	336	Î	ug/Kg	U	YES	}													1	1
Hexachlorobutadiene	336		ug/Kg	U	YES	(1													
Hexachlorocyclopenladiene	336	;	ug/Kg	U	YES		1										1		1	
Hexachloroethane	336		ид/Кд	U	YES	I	i									Ï]	.,,,,,,,,,		
ndeno(1,2,3-cd)pyrene	336		ug/Kg	U i	YES	· · · · · · · · · · · · · · · · · · ·		1			! !					1				1

Project Number and Name:

11-032E - 11-032E Carroll Agent Orange

Library Used: CampCarroll

Report Date: 9/6/2011 10:37

Page 41 of 182

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

Client Sample ID : E11-139-S3

Lab Report Batch: 31101915

Lab ID: SGSW

Sample Date: 07/18/2011

Analysis Type: RES

Sample Matrix: SO

Lab Sample ID: 31101915028

Reviewed By / Date:

Approved By / Date:

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Quai*	Temp	нт	мв	LCS	M/S	Lab Dup	Surr	Rep Limit	Moist ToVDis	Field QC	Tune	IC	ICV	CCA
Analysis Method : 8270D					Diluti	оп: 1		• • • • • • • • • • • • • • • • • • • •												
Isophorone	336		ug/Kg	U	YES	-	;	1	1	1	1	-		1			1	1	1	1
Naphihalene	336		ug/Kg	U	YES	:						-	}	}	1		1	1	1	
Nitrobenzene	336		ug/Kg	U	YES	:				1								[1
n-Nitrosodi-n-propylamine	336		ug/Kg	U	YES		 	i		1							1		1	
Pentachlorophenol	336		ug/Kg	U	YES	IJ			1	UJ]		1						1	
Phenanthrene	336		ug/Kg	U	YES				 	1	}	}						<i>.</i>	1	
Phenol	336		ug/Kg	Ü	YES		}		 	I	1	1		1					1	
Pyrene	336		ug/Kg	U	YES		<i>-</i>	1		f		f	l		1		<i>-</i>		1	1

Project Number and Name:

11-032E - 11-032E Carroll Agent Orange

Library Used:

CampCarroll

Report Date: 9/6/2011 10:37 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 Page 42 of 182

Client Sample ID : E11-143-S3

Lab Sample ID: 31101915023

Lab Report Batch: 31101915

Lab ID: SGSW

Sample Date: 07/18/2011

Analysis Type: RES

Sample Matrix: SO

Reviewed By / Date:

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual		Overall Qual*	Temp	нт	МВ	LCS	MS	Lab Dup	Surr	Rep Limit	Moist ToVDis	Field QC	Tune	IC	icv	CCV
Analysis Method : 6010C					Dilutio															
Arsenic	1.68	i	mg/kg		YES		1 1		1	1	1	1	1	í	1 :		1		1	
Barium	64.9		mg/kg		YES	j	:! [: 	 I	/ J	! 	!	! 	! <u>:</u>		!' 		!	<u>!</u>
Cadmium	0.657		mg/kg		YES	U	i		U	! 	 	\ 	1 I	! 	!i		!! 			1
Chromium	4.21	İ	mg/kg		YES		·············		:	 I	/ 	\	i	! !	ii		1	•••••		1
Lead	5.85	i	mg/kg		YES	j	i		: 	 	J	: { J	: 	: 	:: 		!:: 		: 1	<u>:</u>
Selenium	2.10	ii	mg/kg	U	YES		:! !		' 	! !	/ 	! 	<u>'</u>	<u>:</u>	!! 		!! 	• • • • • • • • •	! !	!
Silver	1.05		mg/kg	U	YES		ii		` 	i I	! 	i 	! 	! 	!! !	•••••	!		! 	!
Analysis Method : 7471B		[Dilutio	n: 1	i					1			i					
Mercury	0.00507		mg/kg	J	YES		i I					1	l	,	1 1	·	1 1]	1
Analysis Method : 8081					Dilutio	n: 1	:			*					!!					!
4,4'-DDD	9.96		ug/Kg	U	YES		1					İ			1 1		1		1]
4,4'-DDD	9.96		ug/Kg	U	YES			 			{ {						 		 	:
4,4'-DDE	9.96		ug/Kg	U	YES		1								İ		i		 	i I
4,4'-DDE	9.96		ug/Kg	U	YES		1	i								• • • • • • • •			i 	:
4,4'-DDT	9.96		ug/Kg	U	YES			I									1			
4,4'-DDT	9.96		ug/Kg	U	YES			Ì									i i		 	i
Aldrin	9.96		ug/Kg	U	YES												1			i
Aldrin	9.96		ug/Kg	U	YES		1	1												i I
alpha-BHC	9.96		ug/Kg	U	YES			Ì							1		1		: 	i
alpha-BHC	9.96		ug/Kg	U	YES :							1					1			
alpha-Chlordane	9.96		ug/Kg	U	YES :		1													
alpha-Chlordane	9,96		ug/Kg	U	YES		1	Î									i)
bela-BHC	9.96	····	ug/Kg	U	YES			Î	I		· · · · · · · · · · · · · · · · · · ·]			1		i			
bela-BHC	9.96		ug/Kg	U	YES	· · · · · · · · · · · · · · · · · · ·		Ì		,,,	i				i. 		········			
Chlordane	33.2		ug/Kg	U	YES		1	·······	·			 		 		· · · · · · · · ·		i		
Chlordane	33.2		ug/Kg	U	YES	ا ا	i		i	i		i	i	<u>:</u>	i	<u>!</u>	1	ا ا		
delta-BHC	9.96	· · · · · · · · · · · · · · · · · · ·	ио/Ко	U	YES :				1	i	i I	·i	i	i		· · · · · · · · · · · · · · · · · · ·		ر ا		

Project Number and Name:

11-032E - 11-032E Carroll Agent Orange

Library Used:

Report Date: 9/6/2011 10:37

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

Page 43 of 182

Client Sample ID: E11-143-S3

Lab Report Batch: 31101915

Lab ID : SGSW

Sample Date: 07/18/2011 Lab Sample ID: 31101915023 Analysis Type: RES

Sample Matrix: SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	нт	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	ıc	icv	CCV
Analysis Method : 8081					Diluti	on: 1														
della-BHC	9.96		ug/Kg	υ	YES															
Dieldrin	9.96		ug/Kg	U	YES					l	1		1		1					Ī
Dieldrin	9.96		ug/Kg	U	YES					1			1							1
Endosulfan i	9.96		ид/Кд	U	YES														1	Ī
Endosullan I	9.96		ug/Kg	U	YES					 					1					
Endosulfan II	9.96		ug/Kg	U	YES														 	
Endosulfan II	9.96		ug/Kg	U	YES				1										1	
Endosulfan sulfate	9.96		ug/Kg	υ	YES		i			1	}				i					
Endosulfan sulfate	9.96		ug/Kg	U	YES		1												ļ	
Endrin	9.96		ug/Kg	U	YES		1]
Endrin	9.96		ug/Kg	U	YES															
Endrin aldehyde	9,96		ug/Kg	U	YES					1					í					i
Endrin aldehyde	9,96		ug/Kg	U	YES										1					
Endrin ketone	9.96		ug/Kg	U	YES		1													
Endrin ketone	9.96		ug/Kg	U	YES]					1			
gamma-BHC (Lindane)	9.96		ug/Kg	υ	YES				اا								1			1
gamma-BHC (Lindane)	9.96		ug/Kg	U	YES		1		i						İ					1
gamma-Chlordane	9.96		ug/Kg	U	YES	1	1					· · · · · · · · · · · · · · · · · · ·			ļ					i
gamma-Chlordane	9,96		ug/Kg	U	YES	i			· · · · · · · · · · · · · · · · · · ·			1	1							1
Heplachlor	9.96		ug/Kg	U	YES			 									1			1
Heplachior	9.96	· · · · · · · · · · · · · · · · · · ·	ug/Kg	U	YES		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	ا			i					1			 [
Heptachtor epoxide	9.96		ug/Kg	U	YES :		1	1				1								1
Heptachlor epoxíde	9.96		ug/Kg	U	YES	1						1			'					1
Methoxychlor	9.96		ug/Kg	U	YES :							1			1					
Methoxychlor	9.96		ug/Kg	U	YES			1					1		1		i			
Toxaphene	33.2	1	ug/Kg	U	YES		i	······				······i				······	1	i	·····i	

Project Number and Name:

11-032E - 11-032E Carroll Agent Orange

Library Used: CampCarroll

Report Date: 9/6/2011 10:38

Page 44 of 182

^{*} 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

Client Sample ID: E11-143-S3 Sample Date: 07/18/2011

Lab Report Batch: 31101915

Analysis Type: RES

Lab ID: SGSW

Sample Matrix: SO

Lab Sample ID: 31101915023

Reviewed By / Date :							App	rove	а ву /	Date :										
Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	нт	мв	LCS	MS	Lab Dup	Surr		Moist Tot/Dis		Tune	ıc	icv	CCV
Analysis Method: 8081					Dilutio	n: 1														
Toxaphene	33.2		ug/Kg	U	YES	(1						1	1
Analysis Method : 8151					Dilutio	n: 1														
2,4,5-T	0.0168		mg/kg	U	YES				[ì	į	1	1					1	Ī
2,4,5-T	0.0168	;	mg/kg	U	YES	1				1		1		-						
2,4,5-TP (Silvex)	0.0168	;	mg/kg	¥	YES	ΠJ					UJ		l						1	1
2,4,5-TP (Silvex)	0.0168	;	mg/kg	IJ	YES	UJ					UJ									1
2,4'-D	0.0168		mg/kg	U	YES	UJ	1				UJ	i	ŀ							l
2.4'-D	0.0168		mg/kg	Ų	YES	IJ]	UJ	ļ		ļ				,		1
2,4-DB	0.0168		mg/kg	U	YES							}	1	1					·	1
2,4-DB	0.0168		mg/kg	U	YES				İ	1	1		1]
Dicamba	0.0168		mg/kg	U	YES	1	· · · · · · · · · · · · · · · · · · ·		1	1	I		1							1
Dicamba	0.0168		mg/kg	U	YES	· · · · · i					1	1	· · · · · · · · · · · · · · · · · · ·							
Analysis Method : 8260B					Dilutio	n: 1														
1,1,1,2-Tetrachloroethane	4.43		ug/Kg	U	YES :	1	1		<u> </u>				1							Ī
1,1,1-Trichloroethane	4.43		ug/Kg	U	YES		1		1						ì					
1,1,2,2-Tetrachloroethane	4.43		ug/Kg	U	YES :]									i
1,1,2-Trichloroethane	4.43		ug/Kg	U	YES					1	}									l
1,1-Dichloroethane	4.43		ug/Kg	U	YES :	}														i
1,1-Dichloroethene	4.43		ug/Kg	U	YES		·····i													1
1,1-Dichloropropene	4.43		ug/Kg	U	YES		1										1			1
1,2,3-Trichlorobenzene	4.43		ug/Kg	Ų	YES										}		-			1
1,2,3-Trichloropropane	4.43	ì	ug/Kg	υ	YES ?	ļ											1			i
1,2,4-Trichiorobenzene	4.43		ug/Kg	U	YES	UJ					UJ									1
1,2,4-Trimethylbenzene	4.43		ug/Kg	U	YES :	UJ	i	Ī		ı	UJ			ĺ	ĺ	····			,	· · · · · · · ·
1,2-Dibromo-3-chloropropane	26.6		ug/Kg	U	YES :		<u>i</u>									i	1			1
1,2-Dibromoethane	4.43	}	ug/Kg	U	YES															1
1,2-Dichlorobenzene	4.43		ug/Kg	บ	YES :			· · · · · · · · · · · · · · · · · · ·								·····i				

Project Number and Name:

11-032E - 11-032E Carroll Agent Orange

Library Used:

Report Date: 9/6/2011 10:38

CampCarroll

Page 45 of 182

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

Client Sample ID : E11-143-S3

Lab Report Batch: 31101915

Lab ID: SGSW

Sample Date: 07/18/2011 Lab Sample ID: 31101915023 Analysis Type: RES

Sample Matrix : SO

Reviewed By / Date:

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quai		Overall Qual*	Temp	нт	мв	LCS	MS	Lab Dup	Surr		Moist Tot/Dis		Tune	ıc	icv	CCV
Analysis Method : 8260B					Dilutio	on: 1					,									
1,2-Dichloroethane	4.43		ug/Kg	υ	YES							!					1		1	1
1,2-Dichloropropane	4,43		ug/Kg	U	YES							(1	
1,3,5-Trimethylbenzene	4,43		ug/Kg	U	YES						}		<u> </u>	<u> </u>	<u> </u>				<u> </u>	
1,3-Dichlorobenzene	4.43		ug/Kg	U	YES						į			ļ	<u> </u>				<u> </u>	<u> </u>
1,3-Dichloropropane	4.43		ug/Kg	U	YES		l								1				1	1
1,4-Dichlorobenzene	4.43		ug/Kg	U	YES									1]				1	1
2,2-Dichloropropane	4.43	:	ид/Кд	υ	YES									į					J	1
2-Butanone	3.57		ug/Kg	J	YES	J					J		J	1	[1
2-Chlorotoluene	4.43		ug/Kg	ប	YES												l			l
2-Hexanone	11.1		ug/Kg	U	YES									ľ]	1
4-Chiorololuene	4,43		ug/Kg	U	YES										1				1	1
4-Isopropyltoluene	4.43		ug/Kg	U	YES									1	I		1		1	<u> </u>
4-Methyl-2-pentanone	11.1	:	ug/Kg	U	YES										li				1	
Acetone	13.1		ug/Kg	3	YES	J				J	J		ن		<u> </u>				<u> </u>	l
Benzene	4.43		ug/Kg	U	YES		1								<u> </u>				<u> </u>	İ
Bromobenzene	4.43		ид/Кд	U	YES		1								1 1		j]	ļ
Bromochloromethane	4.43	;	ug/Kg	U	YES		1								1 1				J	1
Bromodichloromethane	4.43		ug/Kg	υ	YES					1				l	1 1		į		1	
Bromoform	4.43		ug/Kg	U	YES									i			1		1	
Bromomethane	4.43		ug/Kg	U	YES												Ì		1	
Carbon disulfide	4.43		ug/Kg	U	YES		1								l j				1	1
Carbon tetrachloride	4.43		ug/Kg	U	YES		ì					- 1							<u> </u>	1
Chlorobenzene	4.43		ug/Kg	υ	YES		I	Ì							L			.,,	J	l
Chioroethane	4.43		ug/Kg	U	YES		I		1			١				j	Î			1
Chloroform	4.43		ug/Kg	U	YES		1	١	ا			J				l	1		f	1
Chloromethane	4 43		ug/Kg	U	YES		1	1							1		1			1

Project Number and Name:

11-032E - 11-032E Carroll Agent Orange

Library Used:

Report Date: 9/6/2011 10:38

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

Page 46 of 182

Client Sample ID: E11-143-S3 Sample Date: 07/18/2011

Reviewed By / Date:

Lab Report Batch: 31101915

Analysis Type: RES

Lab ID: SGSW

Sample Matrix: SO

Lab Sample ID: 31101915023

Approved By / Date:

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual		Overal! Qual*	Temp	нт	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	IC	ICV	CCV
Analysis Method : 8260B					Dilutio	n: 1														
cis-1,2-Dichtoroethene	4.43		ug/Kg	U	YES		1			1	}				1					-
cis-1,3-Dichloropropene	4.43		ug/Kg	U	YES		1								1 1					1
Dibromochloromethane	4.43		ug/Kg	U	YES													.,		1
Dibromomethane	4,43		ug/Kg	U	YES	}											1			İ
Dichlorodifluoromethane	4.43		ug/Kg	U	YES								1				1			1
Ethyl Benzene	4.43		ug/Kg	U	YES												1			l
Hexachlorobutadiene	4.43		ид/Кд	U	YES	UJ					UJ						Ė			
Isopropylbenzene (Cumene)	4.43		ид/Кд	U	YES		1										1			
m,p-Xylene	8.85		ид/Кд	υ	YES		1								1					
Methyl iodide	4.43		ид/Кд	U	YES	,	ĺ													
Methylene chloride	1.76		ug/Kg	J	YES	UJ			U				J							1
Naphthalene	4.43		ug/Kg	U	YES	UJ	i				UJ									
n-Butylbenzene	4.43		ug/Kg	U	YES	ียม	1	1			UJ						1			
n-Propylbenzene	4.43		ug/Kg	U	YES		١													
o-Xylene	4.43		иg/Kg	U	YES			1	-											
sec-Bulyibenzene	4.43		ug/Kg	U	YES		1						}		i					
Styrene	4.43		ug/Kg	υ	YES	UJ	1	1			IJ									
tert-Butyl methyl ether (MTBE)	4,43		ug/Kg	υ	YES		· · · · · · · · · · · · · · · · · · ·	1		}			ĺ		1		-			1
tert-Butylbenzene	4.43		ug/Kg	U	YES		1	1		i							1	i		
Tetrachloroethene	4.43		ug/Kg	υ	YES	i	1	I					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				-			1
Toluene	0.717	į	ug/Kg	J	YES	J	[1					J	.,,		1	1			1
Irans-1,2-Dichloroethene	4.43	į	ug/Kg	υ	YES		1		1]					1	1			1
rans-1,3-Dichloropropene	4.43	;	ug/Kg	υ	YES			. 1			!					l		i		1
rans-1,4-Dichloro-2-butene	22.1	;	ug/Kg	U	YES			1			}		}							i
Trichloroelhene	4.43		ид/Кд	U	YES	1	1	Ī							1		1			i
Trichlorofluoromelhane	4,43		ug/Kg	U	YES	UJ	1	1			UJ				1	1	1			i

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

Library Used: CampCarroll

Report Date: 9/6/2011 10:38

Page 47 of 182

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

Client Sample ID : E11-143-S3

Lab Report Batch: 31101915

Lab ID : SGSW

Sample Date : 07/18/2011

Analysis Type: RES

Sample Matrix: SO

Lab Sample ID: 31101915023

Reviewed By / Date:

Approved By / Date:

Result	Uncertainty / Error	Result Units	Lab Qual				нт	МВ	LCS	MS	Lab Dup	Surr	Rep Limit			Tune	ıc	ICV	CCV
				Diluti	on: 1														
4.43	;	ug/Kg	υ	YES	:				1			1				Ι]	1
				Diluti	on: 1														
339		ug/Kg	U	YES					1	1	1	l	1	1				1	1
339		ug/Kg	U	YES						•	Ì			1]		1	1
339		ug/Kg	U	YES										1 1					1
339		ug/Kg	U	YES				1				1				1			'
339		ug/Kg	U	YES			l	1											1
339		ug/Kg	U	YES						 		l				l i	••		1
339		ug/Kg	U	YES						 									1
339		ug/Kg	U	YES							· · · · · · · · · · · · · · · · · · ·]					1
339		ug/Kg	U	YES					1	1		Ì		1 }				1	1
339		ug/Kg	U	YES								 		l [1
339		ug/Kg	U	YES										l 1					1
339		ug/Kg	ប	YES															
339		ug/Kg	U	YES										1				Î	1 1
339		ug/Kg	U	YES														l	1
339		ug/Kg	U	YES													• • • • • • • • • • • • • • • • • • • •	1	i i
339		ug/Kg	U	YES														Î	1
339		ug/Kg	ย	YES														1	i i
339		ug/Kg	U	YES										i					1
339		ug/Kg	υ	YES	1									1					1
339		ug/Kg	υ	YES	i													1	İ
339		ug/Kg	υ	YES										1				1	i i
339		ug/Kg	U	YES	i	i 		 ا										1	
339		ug/Kg	U	YES		<u>ا</u> ا		 								i	*	i I	1
339	····	ug/Kg	U	YES		:ا ا						1	i	i]		i	i i
339	·····	ug/Kg	U	YES		<u>؛ا</u> ا	,			i		<u>:</u>	i			i		/ 	ii
	339 339 339 339 339 339 339 339 339 339	Result Error 4.43 339 339 339 339 339 339 33	Result Error Units 339 ug/kg	Result Error Units Qual	Result	Result	Result	Result	Result	Result	Result Error Units Qual Res Qual* Temp HT MB LCS MS	Result Error Units Qual Res Qual Temp HT MB LCS MS Dup	Result Error Units Qual Res Qual Temp HT MB LCS MS Dup Surr	Result Error Units Qual Res Qual Temp HT MB LCS MS Dup Surr Limit	Result Error Units Qual Res Qual Temp HT MB LCS MS Dup Surr Limit Tot/Dis	Result Error Units Qual Res Qual Temp HT MB LCS MS Dup Surr Limit Tot/Dis QC	Result	Result	Result

Project Number and Name:

ADR 8.2

11-032E - 11-032E Carroll Agent Orange

Library Used: CampCarroll

Report Date: 9/6/2011 10:38

Page 48 of 182

^{*} 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

Client Sample ID: E11-143-S3

Lab Report Batch: 31101915

Lab ID: SGSW

Sample Date: 07/18/2011 Lab Sample ID: 31101915023 Analysis Type: RES

Sample Matrix: SO

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quai	Rep Res	Overall Quai*	Temp	нт	MB	LCS	MS	Lab Dup	Surr	Rep Limít	Moist Tot/Dis		Tune	IC	ICV	CC/
Analysis Method : 8270D					Dilutie	*************														
Acenaphthylene	339		ug/Kg	U	YES										l i	en en en en en en en en en en en en en e		*************		1
Anthracene	339		ug/Kg	U	YES		[}				l				1	1
Benzo(a)anthracene	339		ид/Кд	Ų	YES														1	1
Benzo(a)pyrene	339		ug/Kg	ប	YES				1		l .							••••	l	1
Benzo(b)fluoranthene	339		ug/Kg	Ų	YES						1				1				1	
Benzo(g,h,i)perylene	339		ug/Kg	U	YES						1				1					
Benzo(k)fluoranthene	339		ug/Kg	U	YES															
Bis(2-Chloroethoxy)methane	339		ug/Kg	Ų	YES															1
Bis(2-Chloroethyl)ether	339		ug/Kg	u	YES				l											1
Bis(2-Chlorolsopropyl)elher	339		ug/Kg	U	YES															i
Bis(2-Ethylhexyl)phthalate	162		ug/Kg	J	YES		i						1)			
Butyl benzyl phihalate	339		ug/Kg	U	YES		1								1		· · · · · · · · ·			
Chrysene	339		ug/Kg	U	YES														1	1
Dibenz(a,h)anthracene	339		ug/Kg	U	YES		1					1	i							
Dibenzofuran	339	· · · · · · · · · · · · · · · · · · ·	ug/Kg	U	YES		i					1)		1					1
Diethyl phthalate	339		ид/Кд	U	YES		i	1					j		1		1			1
Dimethyl phthalate	339		ид/Кд	U	YES			I]	· · · · · · · · · ·			1		1			
Di-n-butyl phthalate	339		ug/Kg	U	YES		i	1			1	1		· · · · · · · ·		ĺ				1
Di-n-octył phthalate	339		ug/Kg	U	YES		· · · · · · · · · · · · · · · · · · ·	1				1		· · · · · · · · · · · · · · · · · · ·	ĺ					1
luoranlhene	339	:	ug/Kg	U	YES			ì				······	1		1	 				1
luorene	339	1	ug/Kg	υ	YES			Ì			· · · · · · i	i	· · · · · · · · ·			:i	1			1
łexachlorobenzene	339		ug/Kg	U	YES		1	l							· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·				1
lexachlorobuladiene	339		ug/Kg	υ	YES	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	Î	· · · · · · · · · · · · · · · · · · ·			i	i.	i	·····i	:i		·····		
lexachtorocyclopentadiene	339		ug/Kg	U	YES :			 	1			i	i	1	i	i		I		i
lexachloroethane	339		ug/Kg	U	YES		············	ì	i		 	i	/. I		· · · · · · · · · · · · · · · · · · ·	······ì	i			i
ndeno(1,2,3-cd)pyrene	339	···	ug/Kg	U	YES		· · · · · · · · · · · · · · · · · · ·	i								······i		ا		

Project Number and Name:

11-032E - 11-032E Carroll Agent Orange

Library Used: CampCarroll

Report Date: 9/6/2011 10:38

Page 49 of 182

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

Client Sample ID : E11-143-S3

Lab Report Batch: 31101915

Lab ID: SGSW

Sample Date: 07/18/2011

Analysis Type: RES

Sample Matrix : SO

Lab Sample ID: 31101915023

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Quai*	Temp	нт	МВ	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	ıc	ICV	CCV
Analysis Method : 8270D					Diluti	on: 1														
Isophorone	339	;	ug/Kg	U	YES			1	1	1	1	ì	<u> </u>	<u> </u>	<u> </u>			<u> </u>	<u> </u>	.1
Naphthalene	339		ug/Kg	Ų	YES			1			1	(1	į.				į	l	l
Nitrobenzene	339		ug/Kg	U	YES	}			1	1	ì		l	1				1	1	1
n-Nitrosodi-n-propylamine	339		ug/Kg	U	YES		}			1				}				ł	l	1
Pentachiorophenol	339		ид/Кд	U	YES	UJ				UJ							1	1		1
Phenanthrene	339		ug/Kg	U	YES					1				}			1	1		1
Phenol	339		ug/Kg	Ų	YES					1				1				1		
Pyrene	339		ug/Kg	U	YES				1	1			l	}				}		1

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

ADR 8.2

Report Date: 9/6/2011 10:38

*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

Page 50 of 182

5445

Client Sample ID : E11-144-S1

Lab Report Batch: 31101915

Lab ID: SGSW

Sample Date: 07/18/2011

Reviewed By / Date:

Analysis Type: RES

Sample Matrix : SO

Lab Sample ID: 31101915024

Approved By / Date:

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overati Qual*	Temp	нт	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Molst Tot/Dis		Tune	10	ICV	CCA CCA
Analysis Method : 6010C					Difutio	on: 1	· · · · · · · · · · · · · · · · · · ·													
Arsenic	3.81	!	mg/kg		YES		. i				1		I	ı	<u> </u>				l	
Barium	75.6	<u>:</u>	mg/kg		YES	J					J		1							[
Cadmium	0.869	 	mg/kg		YES	U			U]		1						1
Chromium	3.79	:	mg/kg		YES]		l	ĺ		}		!						1
Lead	8.57		mg/kg		YES	J					J	J								1
Selenium	2.21		mg/kg	U	YES						}									1
Silver	1.11		mg/kg	U	YES														1	
Analysis Method : 7471B					Dilutio	n: 1														•••••
Mercury	0,00655		mg/kg	J	YES												 		1	!
Analysis Method : 8081					Dilutio	n:1										***************************************				CONTRACTOR OF THE PARTY OF THE
4,4'-DDD	1.82		ug/Kg	J	YES							!	<u> </u>		ll		<u> </u>		<u> </u>	<u> </u>
4,4'-DDD	1.82		ид/Кд	J	YES					[l	<u> </u>	[<u> </u>		<u> </u>		<u> </u>	1
4,4'-DDE	1.53		ug/Kg	J	YES		i I					<u> </u>	l		<u> </u>				<u> </u>	1!
4,4'-DDE	1.53		ug/Kg	J	YES							1	l		<u> </u>		!		F	1 1
4,4'-DDT	4.61		ug/Kg	J	YES										l i		I		1	
4,4'-DDT	4.61		ug/Kg	J	YES							Ĺ			ll				1	<u> </u>
Aldrin	10.1		ug/Kg	U	YES										li				1	
Aldrin	10.1		ug/Kg	U	YES				ļ			[
alpha-BHC	10,1		ug/Kg	υ	YES							{								
aipha-BHC	10.1	1	ug/Kg	ប	YES]	j	1			
alpha-Chlordane	10.1	;	ug/Kg	υ	YES										ĺ		1			
alpha-Chiordane	10.1	}	ug/Kg	U	YES		١]		[]			l		I			
beta-BHC	10.1		ug/Kg	U	YES		1]]		[]					Ī		1	
bela-BHC	10.1		ug/Kg	U	YES				ļ]										
Chlordane	33.7	i	ug/Kg	υ	YES					}									[1
Chlordane	33.7	ì	ug/Kg	U	YES					j					1		{			1
delta-BHC	10.1		ug/Kg	U	YES)	1								1	,	i			

Project Number and Name:

11-032E - 11-032E Carroll Agent Orange

Library Used: Report Date: 9/6/2011 10:38

CampCarroll

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

Page 51 of 182

Client Sample ID : E11-144-S1

Lab Report Batch: 31101915

Lab ID : SGSW

Sample Date: 07/18/2011 Lab Sample ID: 31101915024 Analysis Type: RES

Sample Matrix : SO

Reviewed By / Date :

Approved By / Date :

Analas Nama	Datul	Uncertainty /	Result	Lab	Rep Res	Overall	Tome	нт	MB	LCS	MS	Lab Dup	Surr	Rep	Moist Tot/Dis		Tune	IC	icv	CCV
Analyte Name	Result	Error	Units	Qual		Quaf*	remp	- nı	MD	LUS	mo	Dup	Sun	CHAIL	(000)18	QC	Turre	10	100	000
Analysis Method : 8081					Dilutio	OR: 1								,	,		, ,			
della-BHC	10.1	ļ	ug/Kg	U	YES								ļ		ļ		ļ		!	ļ
Dieldrin	10.1	ļ	ug/Kg	U	YES					ļ				ļ	ļ		ļ		<u>!</u>	ļ
Dieldrin	10.1	ļ <u>.</u>	ид/Кд	U	YES		1								ļ		!		<u> </u>	ļ
Endosulfan i	10.1		ug/Kg	U	YES							<u> </u>	<u> </u>		<u> </u>		!!	- ,	ļ	l
Endosulfan I	10.1	i 	ид/Кд	U	YES					<u> </u>			1	l	<u> </u>		l!		<u> </u>	<u> </u>
Endosulfan II	10.1	<u> </u>	ug/Kg	U	YES					l			1	<u> </u>	<u> </u>		l		<u> </u>	<u> </u>
Endosulfan II	10.1		ug/Kg	U	YES					<u> </u>	l		l	ļ	<u> </u>]		<u> </u>	1
Endosulfan sulfate	10.1		ug/Kg	ប	YES		<u> </u>		1	<u> </u>			l.,	}	<u> </u>)		1	
Endosulfan sulfate	10.1		ug/Kg	U	YES		1			l			ĺ	1	1				1	<u> </u>
Endrin	10.1	1	ug/Kg	U	YES		1			l					L		<u> </u>		1	1
Endrin	10.1		ug/Kg	U	YES				J				1		1		l		<u> </u>	l
Endrin aldehyde	10.1		ug/Kg	U	YES		1								1				ļ]
Endrin aldehyde	10.1		ug/Kg	U	YES	1	1								!					İ
Endrin ketone	10.1		ug/Kg	U	YES	İ	1	1			i				1				1	
Endrin ketone	10.1		ug/Kg	υ	YES]			1									1
gamma-BHC (Lindane)	10.1		ug/Kg	υ	YES			1			1				İ					
gamma-BHC (Lindane)	10.1	;	ug/Kg	U	YES		· · · · · i				j				1					1
gamma-Chlordane	10.1		ug/Kg	U	YES	1	1	1									}			1
gamma-Chlordane	10,1		ug/Kg	U	YES	i	1	[-								1			ŀ.
Heptachlor	10.1		ug/Kg	U	YES					1					1					1
Heptachlor	10.1	1	ug/Kg	ย	YES	1		1	1]					1		1			1
Heptachlor epoxide	10.1		ug/Kg	Ü	YES		i	ì	······										·	i
Heptachlor epoxide	10.1		ug/Kg	U	YES	1		Ì								1	i			1
Methoxychlor	10.1		ug/Kg	U	YES		i	i		i	1					ì	1	ĺ	İ	1
Methoxychlor	10.1		ug/Kg	υ	YES	:		·······i					:				ì			1
Toxaphene	33.7		ug/Kg	U	YES		· · · · · · · · · · · · · · · · · · ·)	·············	i			

Project Number and Name:

11-032E - 11-032E Carroll Agent Orange

Library Used: Ca

CampCarroll

ADR 8.2

Report Date: 9/6/2011 10:38

Page 52 of 182

^{*} 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

Client Sample ID : E11-144-S1

Lab Report Batch: 31101915

Sample Date: 07/18/2011

Analysis Type: RES

Lab ID : SGSW

Sample Matrix : SO

Lab Sample ID: 31101915024
Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual		Overal Qual*	l Temp	нт	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	1C	ICV	CCA CA1
Analysis Method : 8081					Dilutio	n: 1														
Toxaphene	33.7		ug/Kg	U	YES :				1	1					1					
Analysis Method : 8151					Dilutio	n: 1				****										•••••
2,4,5-T	0.0170		mg/kg	U	YES	UJ	1		l	UJ	Ī		1	1					1	
2,4,5-T	0.0170		mg/kg	U	YES	UJ	1 1			UJ	ł	ł	1	{						1
2.4,5-TP (Silvex)	0.0170		mg/kg	U	YES						Į.		l		1				1	
2,4,5-TP (Silvex)	0.0170		mg/kg	U	YES										1				1	
2,4'-D	0.0170		mg/kg	U	YES	IJ	1 1			UJ			[1	İ
2,4'-D	0.0170		mg/kg	Ų	YES	UJ	1 1			ŲJ		1							1	
2,4-D8	0,0170		mg/kg	U	YES	IJ	í l			UJ		}	1	į	1					
2,4-DB	0.0170		mg/kg	U	YES	UJ	1			Ų			1		[]				1	l
Dicamba	0.0170		mg/kg	U	YES	บป				UJ		ĺ	1		1					1
Dicamba	0.0170		mg/kg	U	YES	ŰĴ	ì I			ÜÜ				i	ļ i		l i			
Analysis Method : 8260B					Dilutio	n: 1								· · · · · · · · · · · · · · · · · · ·						
1,1,1,2-Tetrachloroethane	4,61		ug/Kg	U	YES								1		1				l i	Ī
1,1,1-Trichloroethane	4.61		ид/Кд	U	YES								1							
1,1,2,2-Tetrachloroethane	4.61	-	ug/Kg	u ;	YES [1					1					ĺ			
1,1,2-Trichloroelhane	4.61		ug/Kg	U	YES				,,			į					ì			
1,1-Dichloroethane	4.61		ug/Kg	U	YES		1					[1				1			
1,1-Dichloroethene	4.61		ug/Kg	U ;	YES										1					
1,1-Dichloropropene	4.61		ug/Kg	U	YES		1													
1,2,3-Trichlorobenzene	4.61		ug/Kg	U	YES :							 				1				
1,2,3-Trichloropropane	4.61		ид/Кд	U	YES		1					1	}		1		1			
1,2,4-Trichiorobenzene	4.61		ug/Kg	U	YES		ĺ	1									ì			
1,2,4-Trimethylbenzene	4.61		ug/Kg	v	YES			1					1				1			
1,2-Dibromo-3-chloropropane	27.7		ug/Kg	υ	YES		1	1												
1,2-Dibromoethane	4.61	1	ug/Kg	u	YES		1													
1,2-Dichlorobenzene	4.61		ug/Kg	U	YES :	· · · · · · · · · · · · · · · · · · ·	1		1						1	······	1			

Project Number and Name:

11-032E - 11-032E Carroll Agent Orange

Library Used: (

Report Date: 9/6/2011 10:38

CampCarroll

Page 53 of 182

^{*} 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

Client Sample ID : E11-144-S1

Lab Report Batch: 31101915

Lab ID: SGSW

Sample Date: 07/18/2011 Lab Sample ID: 31101915024 Analysis Type: RES

Sample Matrix: SO

Reviewed By / Date :							App	roved	By /	Date :										
Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quai	Rep Res	Overall Qual*		нт	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CC/
Analysis Method : 8260B	* * * * * * * * * * * * * * * * * * * *				Dilutio	on: 1														
1,2-Dichloroethane	4.61		ug/Kg	υ	YES										1		1			Ī
1,2-Dichloropropane	4.61		ug/Kg	U	YES													{		
1,3,5-Trimethylbenzene	4.51		ug/Kg	U	YES					1		1						ļ	1	1
1,3-Dichlorobenzene	4.61		ug/Kg	U	YES		I			1		1			1 1				1	I
1,3-Dichloropropane	4.61		ug/Kg	U	YES						}	[ĺ	[1					1
1,4-Dichtorobenzene	4.61		ug/Kg	บ	YES					1]			,					1	
2,2-Dichloropropane	4.61		ug/Kg	U	YES			.,,		1			1				1	 	[
2-Bulanone	13.7		ug/Kg	J	YES		1										l			
2-Chforotoluene	4.61		ug/Kg	Ų	YES		Ī			1		1					 [1	Ī
2-Hexanone	11.5		ug/Kg	U	YES		1	i			!	 							1	Ī
4-Chlorotoluene	4.61		ид/Кд	U	YES						·	(1				 		[1
4-isopropylloluene	4.61		ug/Kg	Ų	YES		····												1	İ
1-Melhyl-2-penlanone	11.5		ug/Kg	U	YES							;			1				i I	i
Acelone	47.0		ug/Kg		YES]						\$			1				1	1
3enzene	4.61		ug/Kg	U	YES		1								i					
Bromobenzene	4.61		ug/Kg	U	YES		·i								1				1	
Bromochloromethane	4.61		ug/Kg	U	YES		I								1					
Bromodichloromelhane	4.61		ug/Kg	U	YES	1						1			l				Í	1
Bromoform	4,61		ug/Kg	U	YES	1	1	· · · · · · · ·							i i				1	1
Bromomethane	4.61		ид/Кд	Ü	YES		1					i	i						i	i
Carbon disulfide	4.61	····	ug/Kg	U	YES	· · · · · · · · · · · · · · · · · · ·		· · · · · · · ·									· · · · · · · · · · · ·		i	:
Carbon tetrachloride	4.61		ug/Kg	U	YES		i	······					· · · · · · · · ·						1	i
Chlorobenzene	4.61		ug/Kg	U	YES	· · · · · · · · · · · · · · · · · · ·	i.	······ /					i							İ
hioroelhane	4.61		ug/Kg	U	YES	}	i		i				1		i					ĺ
hloroform	4.61	·····	ug/Kg	U	YES		·····i	······					:		i	··········			i	i
hloromethane	4.61		ug/Kg	U	YES:											:			! !	:

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

Library Used: CampCarroll

Report Date: 9/6/2011 10:38

Page 54 of 182

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

Client Sample ID: E11-144-S1 Sample Date: 07/18/2011

Lab Report Batch: 31101915

Lab ID: SGSW

Analysis Type: RES

Sample Matrix: SO

Lab Sample ID: 31101915024

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quai		Overall Qual*		нт	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	IC	ICV	CCV
Analysis Method : 8260B					Dilutio	on: 1														
cis-1,2-Dichloroethene	4.61		ug/Kg	U	YES					1]		1						1
cis-1,3-Dichloropropene	4.61	!	ug/Kg	U	YES				1	1			1	1						
Dibromochloromethane	4.61		ug/Kg	U	YES				l		1		1							1
Dibromomethane	4.61		ug/Kg	Ų	YES						1		l							1
Dichtorodifluoromethane	4,61		ug/Kg	U	YES		l								[l
Ethyl Benzene	4.61		ug/Kg	U	YES														1	1
Hexachlorobutadiene	4.61		ug/Kg	U	YES									l					l	
isopropylbenzene (Cumene)	4.61		ug/Kg	U	YES							1]			1
m,p-Xylene	9.23	[ug/Kg	U	YES												}			1
Methyl iodide	2.05		ug/Kg	J	YES		ı								1 1					1
Methylene chloride	1.85		ug/Kg	J	YES														1	1
Naphthalene	4.61		ug/Kg	U	YES														1	1
n-Bulylbenzene	4.61	:	ug/Kg	U	YES		1			1							100			1
n-Propylbenzene	4.61		ug/Kg	U	YES	ļ											}			'
o-Xylene	4.61		ug/Kg	U	YES								j							'
sec-Bulylbenzene	4.61	:	ug/Kg	U	YES	-		1	1											
Slyrene	4.61		ug/Kg	U	YES		1		ı						1	1				'
tert-Butyl methyl ether (MTBE)	4.61		ug/Kg	U	YES	i	1			j	i]	1			j '
tert-Butylbenzene	4.61		ug/Kg	U	YES		1									1	i			
Tetrachloroethene	4.61		ug/Kg	U	YES	1			1	}	1		-			1	í			
Tojuene	4,61		ug/Kg	U	YES	-		1			į				1	1				
Irans-1,2-Dichloroethene	4,61		ug/Kg	Ų	YES	UJ		1	1	ÚJ]				1	ĺ				1 1
trans-1,3-Dichloropropene	4.61		ug/Kg	U	YES		1													1
trans-1,4-Dichloro-2-bulene	23.1		ug/Kg	υ	YES	1	i			1	I	1	1							
Trichloraelhene	4.61		ug/Kg	U	YES	ì	1		1	}		ı	1				1			
Trichlorofluoromethane	4.61		ug/Kg	υ	YES		I	1	1			I				1	1			1

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

Library Used: CampCarroll

ADR 8.2

Report Date: 9/6/2011 10:38

Page 55 of 182

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

Client Sample ID : E11-144-S1 Sample Date: 07/18/2011 Lab Sample ID: 31101915024 Lab Report Batch: 31101915

Sample Matrix : SO Analysis Type: RES

Lab ID: SGSW

			************									,,,								
Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quai	Rep Res	Overall Qual*	Temp	ΗT	мв	LCS	MS	Lab Đup	Surr	Rep Limit	Moist Tot/Dis		Tune	1C	icv	CCV
Analysis Method : 8260B				******	Diluti	on: 1														
Vinyl chloride	4.61	;	ug/Kg	U	YES				l		1	[1
Analysis Method : 8270D					Diluti	on: 1														
1,2,4-Trichlorobenzene	334		ug/Kg	Ü	YES	[]				1				1			1			
1,2-Dichlorobenzene	334		ug/Kg	U	YES									1						Ĭ.
1,3-Dichlorobenzene	334		ug/Kg	U	YES	1						}								
1,4-Dichlorobenzene	334		ид/Кд	Ų	YES					1	1		1							
2,4,5-Trichlorophenol	334		ид/Кд	Ų	YES	}									{					1
2.4,6-Trichlorophenol	334		ug/Kg	U	YES					1			 		!					1
2,4-Dichlorophenol	334		ug/Kg	U	YES					1			ì 						1	1
2,4-Dimethylphenol	334		ug/Kg	U	YES					1		· · · · · · · · · · · · · · · · · · ·	i	[1					1
2,4-Dinitrotoluene	334		ug/Kg	Ų	YES						1) 		l i				1	1
2,6-Dinitrotoluene	334		ug/Kg	υ	YES) i								i						i
2-Chloronaphthalene	334		ug/Kg	U	YES		····			i					1					1
2-Chlorophenol	334		ug/Kg	U	YES	1	i								1					1
2-Methylnaphthalene	334		ug/Kg	U	YES		i								l		i		·	i I
2-Methylphenol	334		ug/Kg	ប	YES		i	i									1			i I
2-Nitroaniline	334		ид/Кд	U	YES												[[i
2-Nitrophenol	334		ug/Kg	U	YES		i													1
3 and/or 4-Methy/phenol	334		ug/Kg	U	YES		<u>:</u>										i i			i
3-Nitroaniline	334	***************************************	ug/Kg	U	YES	i i	· · · · · · · · · · · · · · · · · · ·								i					:
1-Bromophenyl phenyl elher	334	•	ug/Kg	U	YES		¦	'ا ا								······'				:
4-Chloro-3-methylphenol	334		ug/Kg	U	YES		·' I	-]					:
f-Chloroaniline	334		ug/Kg	U	YES	· · · · · · · · · · · · · · · · · · ·		<u>'</u> . I									·i			:
I-Chlorophenyl phenyl elher	334		ид/Ко	u i	YES		· <u>:</u>	··	 											i
I-Nitroaniline	334		ug/Kg	U	YES				! 	ئىىن ا	اا	!! 		!		!	 ا	لا ا		!
l-Nitrophenol	334	·····	ug/Kg	U	YES			\ 	ئا ا	اا ا	ئىسىنىن ا		۔۔۔۔۔۔۔۔ ا			!		اا ا		!
Acenaphthene	334		ug/Kg		YES															

Project Number and Name:

11-032E - 11-032E Carroll Agent Orange

Library Used:

Report Date: 9/6/2011 10:38

CampCarroll

ADR 8.2

* 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

Page 56 of 182

Client Sample ID : E11-144-S1

Lab Report Batch: 31101915

Lab ID : SGSW

Sample Date: 07/18/2011

Analysis Type: RES

Sample Matrix: SO

Lab Sample ID: 31101915024

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Тетр	нт	МВ	LCS	MS	Lab Dup	Surr	Moist Tot/Dis		Tune	IC	ICV	CCV
Analysis Method : 8270D					Dilutio	on: 1		***********		,				 					
Acenaphthylene	334		ug/Kg	U	YES	}]		}							1	Ī
Anthracene	334		ug/Kg	U	YES				1	1				1 1					
Benzo(a)anthracene	334		ug/Kg	U	YES				1			ĺ	l	ĺ					l
Benzo(a)pyrene	334		ug/Kg	υ	YES				ĺ		1	1	1	l i					1
Benzo(b)fluoranlhene	334		ug/Kg	U	YES		-										.,,,,,,,,	1	
Benzo(g,h,i)perylene	334		ug/Kg	U	YES	1					[}						1	
Benzo(k)fluoranthene	334		ug/Kg	υ	YES		1				Ì								
Bis(2-Chloroethoxy)methane	334		ug/Kg	υ	YES		I		1										ĺ
Bis(2-Chloroethyl)ether	334		ug/Kg	υ	YES									 1					İ
Bis(2-Chloroisopropyl)ether	334		ug/Kg	U	YES									1				1	1
Bis(2-Ethylhexyl)phthalate	334		ид/Кд	u	YES		[[<u>.</u>	 l]	1
Butyl benzyl phthalale	334		ug/Kg	U	YES		1							 				1	ļ
Chrysene	334		ug/Kg	U	YES]					
Dibenz(a,h)anthracene	334		ug/Kg	U	YES	1										į		1	Ī
Dibenzofuran	334	į	ug/Kg	U	YES	1										į			
Diethyl phlhalate	334		ug/Kg	U	YES :		1							 		1			
Dimethyl phthalale	334	1	ug/Kg	υ	YES									 		j		J	[
Di-n-butyl phthalate	334		ug/Kg	U	YES									 l				1	
Di-n-octyl phthalate	334	i	ug/Kg	V	YES								J	ı				1	1
Fluoranthene	334		ug/Kg	U	YES	1	1	J								l		l	1
Fluorene	334		ug/Kg	U	YES	i	1	1								I		1	I
Hexachiorobenzene	334		ug/Kg	U	YES			1				l	1			}		1	1
Hexachtorobutadiene	334		ug/Kg	U	YES		1	1	1]			}		[1
Hexachlorocyclopentadiene	334	;	ug/Kg	U	YES	1	1	1	ı	1	1		1	 				<u> </u>	l
Hexachloroethane	334		ug/Kg	υ	YES :	1		1	١	i					ļ			1	1
Indeno(1,2,3-cd)pyrene	334		ид/Кд	U	YES	· · · · · · · · · · · · · · · · · · ·	1	1				1		 				1	1

Project Number and Name:

11-032E - 11-032E Carroll Agent Orange

Library Used: CampCarroll

ADR 8.2

Report Date: 9/6/2011 10:38

Page 57 of 182

^{*} 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

Client Sample ID : E11-144-S1

Lab Report Batch: 31101915

Lab ID: SGSW

Sample Date: 07/18/2011

Analysis Type: RES

Sample Matrix: SO

Lab Sample ID: 31101915024

Reviewed By / Date :

Approved By / Date :

Analyle Name	Result	Uncertainty / Error	Result Units	Lab Quai	Rep Res	Overall Qual*	Temp	нт	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	ıc	ICV	CCV CCV
Analysis Method : 8270D		-111-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1			Diluti	on: 1				,										
Isophorone	334		ug/Kg	ប	YES		[1	*****	1		ì	1			1		<u> </u>
Naphthalene	334		ug/Kg	U	YES					1	[1	1					1		
Nitrobenzene	334		ug/Kg	U	YES				1]			1							
n-Nitrosodi-n-propylamine	334		ug/Kg	Ų	YES		1								!					
Pentachlorophenol	334	,	ug/Kg	U	YES	UJ				UJ					1					1
Phenanthrene	334		ug/Kg	U	YES	:					1		[1 1					
Phenol	334		ug/Kg	U	YES						<u>.</u>	1								
Pyrene	334		ug/Kg	U	YES	:			1		}	1		i	1		l	1	1	

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

Report Date: 9/6/2011 10:38 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 Page 58 of 182

Client Sample ID: E11-144-S2

Lab Report Batch: 31101915

Lab ID : SGSW

Sample Date : 07/18/2011

Reviewed By / Date:

Analysis Type: RES

Sample Matrix : SO

Lab Sample ID: 31101915025

Approved By / Date :

		Uncertainty /	Result	Lab	Rep	Overal						Lab		Rep	Moist					CV/
Analyte Name	Result	Error	Units	Qual	Res	Qual*	Temp	HT	MB	LCS	MS	Dup	Surr	Limit	Tot/Dis	СС	Tune	IC	ICV	ccv
Analysis Method : 6010C					Dilutio	on: 1														
Arsenic	1.22		mg/kg		YES			l	<u> </u>	1	<u> </u>	<u> </u>		<u> </u>	ļ		[l	1
Barium	73.0		mg/kg		YES	J		l	ļ.,,,,,,	1	1	Į			1				[1
Cadmium	0,652		mg/kg		YES	U	1		U	1	<u> </u>	ł	l	1	l	-	l			
Chromium	2.31		mg/kg	,	YES	Ų	}		U	ŀ		ĺ								
Lead	7.82		mg/kg		YES	J					J	J								
Selenium	1,95		mg/kg	U	YES				1											1
Silver	0.976		mg/kg	U	YES							i				*				1
Analysis Method : 7471B					Dilutio	n: 1														
Mercury	0.00486		mg/kg	J	YES		i I				{]	}	1 !			***************************************		i
Analysis Method : 8081					Dilutio	n:1														
4.4'-DDD	9.57		ug/Kg	U	YES									i						Ĭ
4,4'-DDD	9.57		ug/Kg	U	YES								 							1
4,4'-DDE	9.57		ug/Kg	U	YES		i								l		,			
4,4'-DDE	9,57		ug/Kg	U	YES															
4,4'-DDT	9.57		ug/Kg	U	YES										i i					
4,4-ODT	9.57		ug/Kg	U	YES		l								i I					1
Aldrin	9.57		ug/Kg	υ	YES										i i					1
Aidrin	9.57		ug/Kg	U	YES			····			i	···			i i					i
alpha-BHC	9.57		ug/Kg	U	YES		ii	······	i		i	···i								i
alpha-BHC	9.57	1	ug/Kg	U	YES		1	i	i	i	 	i	i				1	i		1
alpha-Chlordane	9.57	;	ug/Kg	U	YES		1			i		1	 			i	1			
alpha-Chlordane	9.57	;	ug/Kg	U	YES		i		i		······	i	: ا				i	<u>'</u>		i
beta-BHC	9.57	·····	ид/Ко	U	YES		· · · · · · · · · · · · · · · · · · ·	' 	·'			·i	··/				i			1
bela-BHC	9.57	- :	ug/Kg	u :	YES		. ,	i		i	i				 I I	i	j	i	·	ĺ
Chlordane	31.9	************	ug/Kg	U	YES		!				۰۰۰۰۰۰۰۱ ا		ن ا				·······	·1		
Chlordane	31,9		ug/Kg	u i	YES		······ <u>!</u>	·	! !		! !	<u>-</u>	·			! 		! 	! !	
delta-BHC	9,57		ug/Kg	u i	YES					!						!		!		

Project Number and Name:

11-032E - 11-032E Carroll Agent Orange

Library Used:

Report Date: 9/6/2011 10:38

CampCarroll

* 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

Page 59 of 182

Client Sample ID : E11-144-S2

Lab Report Batch: 31101915

Lab ID: SGSW

Sample Date : 07/18/2011

Analysis Type: RES

Sample Matrix : SO

Lab Sample ID: 31101915025

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overali Qual*	Temp	НT	МВ	LCS	MS	Lab Dup	Surr	Rep Limit	Mo¦st ToVDIs		Tune	ıc	(CV	CCV CCV
Analysis Method : 8081					Dilutio	วก: 1											VIA E VANDON VITA	····		
delta-BHC	9.57	,	ug/Kg	Ų	YES				l										l	
Dieldrin	9.57		ug/Kg	U	YES										1				1	1
Dieldrin	9.57		ug/Kg	υ	YES		ļ		1								<u> </u>		l	1
Endosulfan I	9.57		ug/Kg	U	YES				l						l					<u> </u>
Endosulfan I	9.57		ug/Kg	U	YES												l		<u> </u>	
Endosulfan II	9.57		ug/Kg	U	YES										}		[1
Endosulfan II	9.57		ug/Kg	U	YES				1											
Endosulfan sulfate	9.57		ug/Kg	υ	YES	1									[ĺ			
Endosulfan sulfale	9.57		ug/Kg	υ	YES						1						1		l	
Endrin	9.57		ug/Kg	U	YES	1			1]		j i					
Endrin	9.57		ug/Kg	U	YES		1		1				}							
Endrin aldehyde	9.57		ug/Kg	U	YES															
Endrin aldehyde	9.57		ug/Kg	U	YES						1				l i	i		1		
Endrin kelone	9.57		ug/Kg	Ų	YES	i	1		i i	1	1		i		l		i			1
Endrin ketone	9.57		ug/Kg	U	YES	į	I						ì							
gamma-BHC (Lindane)	9.57		ug/Kg	υ	YES					}			}							
gamma-BHC (Lindane)	9.57		ug/Kg	υ	YES		1										ı			
gamma-Chlordane	9.57		ug/Kg	U	YES	1				i	ļ	J			1]			
gamma-Chlordane	9.57		ug/Kg	U	YES	1					j	I					1	1		
Heptachlor	9.57	į	ug/Kg	U	YES :		1			1	[l	1	1		1	1	1		
Heptachlor	9.57		ug/Kg	บ	YES		1	i]			1					1		
Heptachfor epoxide	9.57		ид/Кд	U	YES						!		1				1	1		
Heptachlor epoxide	9.57		uq/Kq	U	YES	1	1		J	I		1				ı		1		
Methoxychlor	9.57	1	ug/Kg	U	YES				1		1	1				[Ī	1		
Methoxychlor	9.57		ug/Kg	U	YES				1			1	1				1			
Toxaphene	31.9		ug/Kg	U	YES	1	1	1				· · · · · · · · · · · · · · · · · · ·	1	١		1	1	1		1

Project Number and Name:

11-032E - 11-032E Carroll Agent Orange

Library Used: Can

Report Date: 9/6/2011 10:38

CampCarroll

Page 60 of 182

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

Client Sample ID : E11-144-S2

Lab Report Batch: 31101915

Lab ID : SGSW

Sample Date: 07/18/2011

Analysis Type: RES

Sample Matrix: SO

Lab Sample ID: 31101915025

Reviewed By / Date :

Approved By / Date:

Analyte Name	Result	Uncertainty / Error	Result Units	£ab Qual	Rep (Temp	нт	МВ	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	ic	icv	CCV
Analysis Method : 8081	.,				Dilution	n: 1														
Toxaphene	31.9		ug/Kg	U	YES						1									
Analysis Method : 8151		. ,			Dilution	า: 1														
2,4,5-T	0.0168		mg/kg	U	YES	UJ			1	l n1		1	1	1	1 1				1	1
2,4,5⋅T	0.0168		mg/kg	U	YES	UJ				UJ		1	1		1		[]		1	1
2,4,5-TP (Silvex)	0.0168		mg/kg	υ	YES					1	1	1		1	1					
2,4,5-TP (Silvex)	0.0168		mg/kg	U	YES						1			1						
2,4'-D	0.0168		mg/kg	U	YES	IJ	1	.,	1	UJ				ļ			1			1
2,4'-D	0.0168		mg/kg	υ	YES	UJ	·····		1	UJ					1					
2,4-DB	0.0168		mg/kg	Ų	YES	UJ			1	UJ					l					i
2,4-DB	0.0168		mg/kg	U	YES	UJ				UJ									1	
Dicamba	0.0168		mg/kg	υ	YES :	UJ			1	UJ		1	1	1	1		Ë			ĺ
Dicamba	0.0168		mg/kg	U	YES	₩.				W					l (
Analysis Method : 8260B					Dilution	ı: 1														
1,1,1,2-Tetrachloroethane	4.42	- 1	ug/Kg	U	YES	ì	1						l	,	l i					-
1,1,1-Trichloroethane	4.42		ug/Kg	U	YES		1			l		1								1
1,1,2,2-Tetrachloroethane	4.42		ug/Kg	U	YES		1								1					
1,1,2-Trichloroethane	4.42		ug/Kg	U	YES		Ì	,							i		1			
1,1-Dichloroethane	4.42		ug/Kg	U	YES		Ī		i								į			
1,1-Dichloroethene	4.42		ug/Kg	υ	YES															
1,1-Dichloropropene	4.42		ug/Kg	υ	YES	İ						ì								
1,2,3-Trichlorobenzene	4.42		ug/Kg	ีย	YES		1)			}					
1,2,3-Trichloropropane	4.42		ug/Kg	U	YES		1					[}					
1,2,4-Trichlorobenzene	4.42	:	ug/Kg	U	YES												į			
1,2,4-Trimethylbenzene	4.42	1	ug/Kg	U	YES :	1	1	i							1		į			
1,2-Dibromo-3-chloropropane	26.5		ид/Кд	U	YES	1	1	I				1								
1,2-Dibromoethane	4.42	· · · · · · · · · · · · · · · · · · ·	ug/Kg	U	YES					i		[
1,2-Dichlorobenzene	4.42		ug/Kg	U	YES		1		 			}			j		1			

Project Number and Name:

11-032E - 11-032E Carroll Agent Orange

Library Used:

Report Date: 9/6/2011 10:38

CampCarroll

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

Page 61 of 182

Client Sample ID: E11-144-S2

Lab Report Batch: 31101915

Lab ID: SGSW

Sample Date: 07/18/2011

Analysis Type: RES

Sample Matrix : SO

Lab Sample ID: 31101915025

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	нт	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CC/
Analysis Method : 8260B					Diluti	,				·····										
1,2-Dichloroethane	4.42		ug/Kg	u	YES	: 1					1	ļ	Ī	1			1		1	1
1,2-Dichloropropane	4.42		ug/Kg	Ų	YES															1
1,3,5-Trimethylbenzene	4.42		ug/Kg	υ	YES						1		1						l	
1,3-Dichlorobenzene	4.42		ug/Kg	U	YES	: · · · · ·					1	1		[1					
1,3-Dichloropropane	4.42		ug/Kg	U	YES	[[i		Ì	1		1					1
1,4-Dichlorobenzene	4.42		ug/Kg	U	YES	:				1			1		i		1		1	1
2,2-Dichloropropane	4.42		ug/Kg	U	YES	:				!	!		1						1	I
2-Butanone	22.1		ug/Kg	ប	YES												1 1			1
2-Chlorololuene	4.42		ug/Kg	U	YES						 {				1 1					1
2-Hexanone	11.0		ug/Kg	U	YES						1	1								ĺ
4-Chlorotoluene	4.42		ug/Kg	U	YES			.,			 !	ĺ			1					1
4-isopropylloluene	4.42		ug/Kg	U	YES	1	i						l		i				1	Ì
4-Methyl-2-pentanone	11.0		ug/Kg	U	YES		1]	ì					l i			1
Acetone	44.2		ug/Kg	U	YES		1					1								ĺ
Benzene	4.42	1	ug/Kg	U	YES		1				i				l i					i
Bromobenzene	4.42		ug/Kg	Ų	YES		· · · · · · · · · · · · · · · · · · ·								i i					ĺ
Bromochioromelhane	4.42		ug/Kg	V	YES	i	· · · · · · · · · · · · · · · · · · ·				ļ	i			i i		1			1
Bromodichloromethane	4.42		ug/Kg	U	YES												1			
Bromoform	4.42		ug/Kg	U	YES	l	i					 								
Bromomethane	4.42	······································	ug/Kg	U	YES	1	· · · · · · · · · · · · · · · · · · ·	1				` 								1
Carbon disulfide	4,42		ug/Kg	υ	YES								i							1
Carbon tetrachloride	4.42		ug/Kg	ប	YES	······	······································													1
Chlorobenzene	4.42		ug/Kg	U	YES	· · · · · · · · · · · · · · · · · · ·]								1
Chloroethane	4.42		ug/Kg	U	YES		·······	·i	i	i		(i	1			1
Chloroform	4.42		ug/Kg	U	YES :	····i	· · · · i	···								· · · · · · · · · · · · · · · ·				1
Chloromethane	4.42		ид/Кд	u i	YES	····i	·····i	· · · · · · · i	· · · · i										· · · · · · · · · · · · · · · ·	

Project Number and Name:

11-032E - 11-032E Carroll Agent Orange

Library Used: CampCarroll

Report Date: 9/6/2011 10:38

* 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

Page 62 of 182

Client Sample ID: E11-144-S2

Lab Report Batch: 31101915

Lab ID: SGSW

Sample Date: 07/18/2011

Analysis Type: RES

Sample Matrix: SO

Lab Sample ID: 31101915025

Reviewed By / Date:

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual		Overali Qual*	Temp	нт	МВ	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CCA
Analysis Method : 8260B	· · · · · · · · · · · · · · · · · · ·				Dilutie	on: 1														
cis-1,2-Dichloroethene	4.42		ug/Kg	U	YES	Ī]			1					Ī
cis-1,3-Dichloropropene	4.42		ug/Kg	U	YES	1	1										[
Dibromochloromethane	4.42		ug/Kg	U	YES				· · · · · · ·)					1	
Dibromomethane	4.42		ug/Kg	υ	YES		1					!								
Dichlorodifluoromethane	4.42		ug/Kg	บ	YES										1					
Ethyl Benzene	4.42		ug/Kg	U	YES		1		i i	1		 	1		1				1	1
Hexachlorobutadiene	4.42		ug/Kg	U	YES	i	1						1		i .]		1	
isopropylbenzene (Cumene)	4.42		ug/Kg	U	YES	}	1										1			
m.p-Xylene	8.84		ug/Kg	U	YES												}			
Methyl iodide	4.42		ug/Kg	U	YES							,								
Methylene chloride	2.14		ug/Kg	j	YES	ı	·····								1 1		i	*		
Naphthalene	4.42		ug/Kg	υ	YES		·····i								i				1	1
n-Bulylbenzene	4.42		ug/Kg	U	YES												ĺ			
n-Propylbenzene	4.42		ug/Kg	U	YES		1	1												
o-Xylene	4.42		ug/Kg	υ	YES	1	ı								1	J				
sec-Bulylbenzene	4.42		ug/Kg	υ	YES	(ĺ					
Styrene	4.42	1	ug/Kg	U	YES								}							
tert-Bulyl methyl ether (MTSE)	4.42		ug/Kg	U	YES		1	1	1					, , , , , ,	ì		1			
lerl-Bulylbenzene	4.42		ug/Kg	Ų	YES	ļ	1	ı		}		1			1	1				
Tetrachloroethene	4.42		ug/Kg	U	YES	-	i				I	1	1		1	I	1			
Toluene	1.86		ug/Kg	J	YES	ì		1	1				1		1	١				
lrans-1,2-Dichloroethene	4.42	;	ид/Кд	Ų	YES	UJ	[I	1	W	1		;			I				
Irans-1,3-Dichloropropene	4.42		ug/Kg	U	YES	1	1	1	1	1	1	1	1			1	1		1 1	
Irans-1,4-Dichloro-2-bulene	22.1]	ug/Kg	บ	YES	1		1	1)	1	1				-	1			1
Trichtoroethene	4.42	1	ug/Kg	U	YES		1	Î		[1			1	Ì				1
Trichlorofluoromethane	4.42		ug/Kg	U	YES		1	1				1	1			I				1

Project Number and Name:

11-032E - 11-032E Carroll Agent Orange

Library Used:

Report Date: 9/6/2011 10:38

CampCarroll

* 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

Page 63 of 182

Client Sample ID : E11-144-S2

Lab Report Batch: 31101915

Lab ID : SGSW

Sample Date: 07/18/2011

Analysis Type: RES

Sample Matrix: SO

Lab Sample ID: 31101915025

	5	Uncertainty /	Result	Lab		Overall	_		***			Lab		Rep	Moist				40.1	CV/
Analyte Name	Result	Error	Units	Qual	Res		Temp	HT	MB	LCS	MS	Dup	Surr	Limit	Tot/Dis	QC	Tune	ıc	(CV	CCV
Analysis Method : 8260B		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				ion: 1														
Vinyl chloride	4.42	<u> </u>	ug/Kg	U	YES	-1			<u> </u>	<u> </u>	<u> </u>	<u> </u>	l		<u> </u>		l		J	.!
Analysis Method : 8270D		·····			Dilut									***************************************	·····					
1,2,4-Trichlorobenzene	332		ug/Kg	U	YES				ļ	!		ļ	ļ			····	l		<u> </u>	. <u> </u>
1,2-Dichlorobenzene	332		ug/Kg	υ	YES	.,			ļ	<u> </u>	<u>.</u>	L	l	İ	l		[J	.!
1,3-Dichlorobenzene	332		ug/Kg	·····	YES				ļ		<u>.</u>	ļ	l		l		li		ļ	. F
1,4-Dichlorobenzene	332	!	ug/Kg	U	YES				l	<u> </u>	<u> </u>	<u> </u>	l	l	<u>li</u>		l		<u>.</u>	.]
2,4,5-Trichlorophenol	332		ug/Kg	U	YES				<u> </u>		<u> </u>	<u> </u>	<u> </u>	İ	<u> </u>		<u> </u>		<u> </u>	<u> </u>
2,4,6-Trichlorophenol	332		ug/Kg	U	YES				1		1		l	l	l]	
2,4-Dichlorophenol	332		ug/Kg	υ	YES				1	1]	į			l		1		1	1
2,4-Dimelhylphenol	332		ug/Kg	U	YES	1			Ì				l	ļ	l		į		1	1
2,4-Dinitrololuene	332		ug/Kg	U	YES												Ì			1
2,6-Dinitrotoluene	332		ug/Kg	Ų	YES					1					l i					1
2-Chioronaphthalene	332		ug/Kg	Ų	YES												i			
2-Chlorophenol	332		ug/Kg	U	YES										1	į	į			1
2-Methylnaphthalene	332		ug/Kg	U	YES	: 1									ĺ		Was-			1
2-Melhyiphenol	332		ug/Kg	υ	YES										[i	1
2-Nitroaniline	332		ug/Kg	υ	YES		1								 		ſ			I
2-Nitrophenol	332	1	ug/Kg	U	YES		1													
3 and/or 4-Methylphenol	332		ug/Kg	U	YES	1	1												[
3-Nitroaniline	332	1	ug/Kg	U	YES]							1
1-Bromophenyl phenyl ether	332)	ид/Кд	U	YES		i				i]		1			1
1-Chloro-3-methylphenol	332		ug/Kg	U	YES		 								1		}			1
I-Chloroaniline	332	·····	ug/Kg	U	YES		·······		········		i	·i					i			1
I-Chlorophenyl phenyl ether	332	·····	ug/Kg	υ	YES		i					j				I				l
I-Nitroaniline	332	······	ug/Kg	υ	YES	:	:i										 			1
-Nitrophenol	332	·····	ug/Kg	U	YES		! 		! 	: ا	 	········	 				•••••			1
			30	- ;			- 1	- 1					•							1

Project Number and Name:

ADR 8.2

11-032E - 11-032E Carroll Agent Orange

Library Used:

CampCarroll

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

Report Date: 9/6/2011 10:38 Page 64 of 182

Client Sample ID: E11-144-S2

Lab Report Batch: 31101915

Lab ID: SGSW

Sample Date: 07/18/2011

Analysis Type: RES

Sample Matrix: SO

Lab Sample ID: 31101915025

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	нт	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	IC	ICV	CCV
Analysis Method : 8270D					Diluti	on: 1														
Acenaph(hylene	332		ид/Кд	U	YES	!					j	!	1			İ				1
Anthracene	332		ug/Kg	Ų	YES				1		1	1							1	1
Benzo(a)anthracene	332		ug/Kg	U	YES	: 1				1	ļ	}							1	
Benzo(a)pyrene	332		ug/Kg	Ų	YES					1	(!								
Benzo(b)fluoranthene	332	;	ug/Kg	Ų	YES														1	
Benzo(g,h,i)perylene	332		ug/Kg	U	YES				[l		1	
Benzo(k)fluoranthene	332		ug/Kg	Ü	YES					l					[]		j]	1
Bis(2-Chloroethoxy)methane	332		ug/Kg	Ų	YES							i				*******			1	ĺ
Bis(2-Chloroethyf)elher	332		ug/Kg	U	YES						{	1							ļ	
Bis(2-Chloroisopropyl)ether	332		ug/Kg	U	YES							1	1							
Bis(2-Ethylhexyl)phthalate	332		ug/Kg	U	YES		i			l		 [i				[1	1
Bulyl benzyl phthalate	332		ug/Kg	U	YES		· · · · · · · · · · · · · · · · · · ·													1
Chrysene	332		ug/Kg	U	YES	1									i					1
Dibenz(a,h)anthracene	332		ид/Кд	υ	YES	1	·												[i
Dibenzoluran	332		ug/Kg	U	YES	i	1													İ
Diethyl phthalate	332		ug/Kg	U	YES	ı	I			1					1		i			i
Dimethyl phthalate	332		ug/Kg	Ų	YES					1										i
Di-n-butyl phthalate	332		ug/Kg	V	YES								1							1
Di-n-octyl phihalate	332		ug/Kg	U	YES	1	1	· · · · · · · · · · · · · · · · · · ·												1
Fluoranthene	332		ug/Kg	U	YES	1	1													1
Fluorene	332		ug/Kg	U	YES	1	1	1									- 1			i
Hexachlorobenzene	332		ug/Kg	U	YES	1	I						[1			i
Hexachlorobuladiene	332		ug/Kg	U	YES:												ì			i
Hexachlorocyclopentadiene	332	1	ug/Kg	U	YES	1	1	İ	i		- • - • - • - •									i
Hexachloroelhane	332	/	ug/Kg	U	YES	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	ì									i			
ndeno(1,2,3-cd)pyrene	332	***************************************	ug/Kg	u :	YES	· · · · · · · · · · · · · · · · · · ·		٠١					i						1	

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

Library Used:

CampCarroll

Report Date: 9/6/2011 10:38

Page 65 of 182

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

Client Sample ID: E11-144-S2

Lab Report Batch: 31101915

Lab ID: SGSW

Sample Date: 07/18/2011

Analysis Type: RES

Sample Matrix : SO

Lab Sample ID: 31101915025

Reviewed By / Date :

Approved By / Date:

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Quat	Temp	нт	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	(CV	CCV
Analysis Method : 8270D					Diluti	on: 1														
Isophorone	332	;	ug/Kg	U	YES	:					1	}			1			1	1	1
Naphthalene	332		ug/Kg	U	YES				I				1]			1			
Nitrobenzene	332		ug/Kg	U	YES	:			1	1		 		j	1		1			Ī
n-Nitrosodi-n-propylamine	332		ug/Kg	U	YES								İ				1			1
Pentachlorophenol	332	;	ug/Kg	บ	YES	U3				UJ					i i]	1	1
Phenanthrene	332		ug/Kg	U	YES				1		······		i		1					I
Phenol	332		ug/Kg	U	YES				1						l			}		
Ругеле	332		ug/Kg	υ	YES				i		 !		i		1					1

Project Number and Name:

11-032E - 11-032E Carroll Agent Orange

Library Used:

Report Date: 9/6/2011 10:38

CampCarroll

Page 66 of 182

ADR 8.2

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

5461

Client Sample ID: E11-149-S1

Lab Report Batch: 31101915

Lab ID: SGSW

Sample Date: 07/18/2011 Lab Sample ID: 31101915002 Analysis Type: DL

Sample Matrix : SO

Reviewed By / Date:

Approved By / Date:

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	нт	МВ	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	ıc	ICV	CCV
Analysis Method : 8081					Dilutio	on: 5														
4,4'-DDD	12.8		ug/Kg	J	YES		į l		1	1	1	(l	
4,4'-DDD	12.8		ug/Kg	J	YES						}			1	[l	1
4,4'-DDE	23.4		ug/Kg	J	YES				1					}			1		l	1
4,4'-DDE	23.4		ug/Kg	J	YES			1	1				[1			1			1
4,4'-DDT	114		ug/Kg		YES												l		1	
4,4'-DDT	114		ug/Kg		YES				l]		į		1	1
Aldrin	49.0		ug/Kg	V	YES]							1		1	
Aldrin	49.0		ug/Kg	V	YES				[1	1						1			1
alpha-BHC	49,0		ид/Кд	U	YES					1							ì		1	
alpha-8HC	49.0		ug/Kg	υ	YES															
alpha-Chlordane	49.0		ug/Kg	U	YES	i			1											
aipha-Chiordane	49.0		ug/Kg	U	YES	ļ							,,,							l
bela-BHC	49.0		ug/Kg	U	YES	}				1					1		į			1
beta-BHC	49.0		ug/Kg	Ų	YES		1										į			
Chlordane	163	ì	ug/Kg	V	YES						i						ĺ			
Chlordane	163	· · · · · · · · · · · · · · · · · · ·	ug/Kg	U	YES		ĺ										}			
delta-BHC	49.0		ug/Kg	υ	YES												i			
delta-BHC	49.0	Ĭ	ug/Kg	U	YES															
Dieldrin	49.0	:	ug/Kg	U	YES	1														
Dieldrin	49.0	:	ug/Kg	U	YES :		1										1			1
Endosulfan I	49.0		ug/Kg	U	YES		1				I						1			1
Endosulfan I	49.0		ug/Kg	U	YES		i								-		1			
Fodosulfan II	490	1	по/Ко	U ;	YES								,		1	1	1			
Endosulfan II	49.0	*************	ug/Kg	U	YES						1									į
Endosulfen sulfate	49.0		ug/Kg	Ų	YES				i		1		,							
Endosulfan sulfate	49.0		ug/Kg	U	YES			· · · · · · · · · · · · · · · · · · ·	· · · · ·											1

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

Library Used:

CampCarroll

ADR 8.2

Report Date: 9/6/2011 10:38

Page 67 of 182

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

Client Sample ID : E11-149-S1

Lab Report Batch: 31101915

Lab ID: SGSW

Sample Date: 07/18/2011

Analysis Type: DL

Sample Matrix : SO

Lab Sample ID: 31101915002

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quaf	Rep Res	Overall Qual*		нт	МВ	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	icv	CCV
Analysis Method : 8081					Dilutio	n: 5			*******************											
Endrin	49.0	,	ug/Kg	U	YES		1		1	1	l	}					1			Ī
Endrin	49.0		ug/Kg	U	YES					1									1	I
Endrin aldehyde	49.0		ug/Kg	U	YES]								 	
Endrin aldehyde	49.0		ug/Kg	U	YES				1	[1]						**	1	1
Endrin ketone	49.0		ид/Кд	Ų	YES		l	*******	ĺ	1									 	Ï
Endrin ketone	49.0		ug/Kg	Ų	YES					1			1		1				1	1
gamma-BHC (Lindane)	49.0		ug/Kg	υ	YES	**	[i				1	1
gamma-BHC (Lindane)	49.0		ug/Kg	υ	YES															i
gamma-Chlordane	49.0		ug/Kg	υ	YES						2						[i	1
gamma-Chlordane	49.0		ug/Kg	U	YES		1				í						i i			i
Heptachlor	49.0		ug/Kg	U	YES												1	******		l
Heptachlor	49.0		ид/Кд	U	YES															
Heplachlor epoxide	49.0		ug/Kg	U	YES			i									,			i
Heplachlor epoxide	49,0		ug/Kg	U	YES										i					ĺ
Methoxychlor	49.0	;	ug/Kg	υ	YES															1
Methoxychlor	49.0		ug/Kg	U	YES		i													
Toxaphene	163		ug/Kg	U	YES	1	· · · · · · · · · · · · · · · · · · ·								i i		ii			1
Toxaphene	163		ug/Kg	U	YES		1						i				1			

Project Number and Name: 11-032

11-032E - 11-032E Carroll Agent Orange

Library Used: CampCarroll

ADR 8.2

Report Date: 9/6/2011 10:38

Page 68 of 182

* 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

5463

Client Sample ID : E11-149-S1

Reviewed By / Date:

Lab Report Batch: 31101915

Lab ID: SGSW

Sample Date: 07/18/2011

Analysis Type: RES

Sample Matrix: SO

Lab Sample ID: 31101915002

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual		Overal Qual*		НТ	МВ	LCS	MS	Lab Dup	Surr		Moist Tot/Dis		Tune	IC	ICV	CCV
Analysis Method : 6010C					Diluti	on: 1														
Arsenic	7.33		mg/kg		YES					1	İ			1	1]		1	1
Barium	101		mg/kg		YES	Ŋ					J]		1	1
Cadmium	1.33		mg/kg		YES		į			1	1		1				1			1
Chromium	3.61		mg/kg		YES	U			U					i .	1					1
Lead	24.7		mg/kg		YES	J					J	J		1					1	1
Selenium	2.07		mg/kg	U	YES														1	
Silver	1.04		mg/kg	U	YES					1				Í					1	1
Analysis Method : 7471B					Dilutio	n: 1														
Mercury	0.00180		mg/kg	J	YES		1						ļ		1 1		}			
Analysis Method : 8151					Dilutio	n:1														
2,4,5-T	0.0169	,	mg/kg	U	YES										l i				1	Г
2,4,5-T	0.0169		mg/kg	U	YES]]		l	
2,4,5-TP (Silvex)	0.0169		mg/kg	U	YES	,,					i									ļ
2,4,5-TP (Silvex)	0.0169		mg/kg	ប	YES					i									1	1
2,4'-0	0.0169		mg/kg	U	YES						1				ĺ		1		1	1
2,4-D	0.0169		mg/kg	U	YES												1		1	1
2,4-DB	0.0169		mg/kg	U	YES	IJ	ı			1	UJ				1		[1	
2,4-DB	0.0169		mg/kg	υ	YES	ŲJ					UJ									
Dicamba	0.0169	;	mg/kg	U	YES		1	1			1]			1				ĺ
Dicamba	0,0169	i	mg/kg	U	YES		1				1	-	[1	1			1
Analysis Method : 8260B					Dilutio	ก: 1														
1,1,1,2-Tetrachloroethane	4.20		ug/Kg	υ	YES						i		i		ì					Ī
1,1,1-Trichtoroethane	4.20		ug/Kg	Ų	YES]	1	1	1				1							1
1,1,2,2-Tetrachloroethane	4.20		ug/Kg	U	YES		1	ĺ		1	ļ	1	1			1			i İ	1
1,1,2-Trichloroethane	4.20		ug/Kg	U	YES :							i	ì			Ì				í
1,1-Dichloroethane	4.20		ug/Kg	υ	YES :			Ì	1					· · · · · · · · · · · · · · · · · · ·	1	i				
1,1-Dichloroethene	4.20		ug/Kg	U	YES	· · · · · · · · · · · · · · · · · · ·	i	<u>'</u>	<u>'</u> I	 	i	i	i	······		······i		·······		
***********************************													'			'-				

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

Library Used:

CampCarroll

Report Date: 9/6/2011 10:38

Page 69 of 182

^{*} 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

Client Sample ID : E11-149-S1

Lab Report Batch: 31101915

Lab ID: SGSW

Sample Date: 07/18/2011

Analysis Type: RES

Sample Matrix: SO

Lab Sample ID: 31101915002

Reviewed By / Date:

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	нт	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	IC	ICV	CCV CV/
Analysis Method : 8260B					Dilutio	on: 1												••••		
1,1-Dichloropropene	4.20	;	ug/Kg	U	YES				1		İ				1 i					
1,2,3-Trichlorobenzene	4.20		ug/Kg	υ	YES									1	1 1				1	1
1,2,3-Trichloropropane	4.20		ug/Kg	U	YES						}	1)	1 1		1 1]
1,2,4-Trichlorobenzene	4.20		ug/Kg	U	YES	UJ			1		UJ	1	[
1,2,4-Trimethylbenzene	4.20		ug/Kg	U	YES	UJ	ĺ				UJ		1				i i			1
1,2-Dibromo-3-chloropropane	25.2	1	ug/Kg	υ	YES				1											'
1,2-Dibromoethane	4.20		ug/Kg	U	YES				[1					
1,2-Dichlorobenzene	4.20		ug/Kg	ម	YES										1					
1,2-Dichloroethane	4.20		ug/Kg	U	YES								1	}			ļ i			
1,2-Dichloropropane	4.20		ug/Kg	Ų	YES	į			l						i					
1,3,5-Trimethylbenzene	4.20		ug/Kg	υ	YES		ĺ								1			-,,		
1,3-Dichtorobenzene	4.20		ug/Kg	U	YES										i i					
1,3-Dichloropropane	4.20		ug/Kg	U	YES	1	-				}				i i			i		
1,4-Dichlorobenzene	4.20		ug/Kg	U	YES	i	-				ì						1			
2,2-Dichtoropropane	4.20		ug/Kg	υ	YES										}					
2-Butanone	6.26		ug/Kg	J	YES	3					J		J							
2-Chlorotoluene	4,20		ug/Kg	U	YES		Ī			İ					1					1
2-Hexanone	10.5		ug/Kg	U	YES	}	1	1			1				1					
4-Chlorotoluene	4.20		ug/Kg	υ	YES	[1			[1						1			
4-Isopropylloluene	4.20		ug/Kg	U	YES		1				ì						1			1
4-Methyl-2-pentanone	10.5		ug/Kg	U	YES			1	ı						1		1			i I
Acetone	20.4	:	ug/Kg	j	YES	J	1	1		J	J		J		i i					1
Benzene	4.20	}	ид/Ко	U	YES		1	1		1	1				1			- 1		
Bromobenzene	4.20		ид/Кд	U	YES]	1	1	1						1	
Bromochloromethane	4.20		ug/Kg	U	YES			1	1	ı	{						1	١	J	
Bromodichloromethane	4.20		ug/Kg	U	YES :	1	i	1	1		1					ļ	1			

Project Number and Name:

11-032E - 11-032E Carroll Agent Orange

Library Used:

CampCarroll

ADR 8.2

Report Date: 9/6/2011 10:38

Page 70 of 182

^{*} 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

Client Sample ID: E11-149-S1

Lab Report Batch: 31101915

Lab ID: SGSW

Sample Date: 07/18/2011 Lab Sample ID: 31101915002 Analysis Type: RES

Sample Matrix: SO

Reviewed By / Date :

Approved By / Date:

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual		Overali Qual*	Temp	нт	MB	L.CS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	ıc	ICV	CCV CCV
Analysis Method : 8260B		v-/	,,		Dilutio	วก: 1														
Bromoform	4.20		ug/Kg	U	YES					1	İ	1		į			[]		<u> </u>	[
Bromomethane	4.20		ug/Kg	U	YES]			}]	1
Carbon disulfide	4.20		ид/Кд	U	YES						1		1	}]	
Carbon tetrachloride	4.20		ug/Kg	U	YES						i				İ					l
Chlorobenzene	4.20		ug/Kg	U	YES															l
Chloroethane	4.20		ug/Kg	U	YES]													ł
Chloroform	4.20		ug/Kg	U	YES					1										1
Chloromethane	4.20		ug/Kg	υ	YES										;		İ			1
cis-1,2-Dichloroethene	4.20		ug/Kg	υ	YES		1 1			1					:]	İ
cis-1,3-Dichloropropene	4.20		ug/Kg	U	YES				[]						1
Dibromochloromelhane	4.20		ug/Kg	U	YES						{			1			i			1
Dibromomethane	4.20		ug/Kg	υ	YES						<u> </u>			ĺ			1			1
Dichlorodifluoromethane	4.20		ug/Kg	U	YES		1													
Ethyl Benzene	4.20	i	ug/Kg	U	YES												ĺ			
Hexachlorobutadiene	4.20		ug/Kg	U	YES	UJ		.,,,,,,,,,			υJ						ĺ			į
Isopropylbenzene (Cumene)	4.20		ug/Kg	U	YES									1						i
m.p-Xylene	8.39		ug/Kg	ีย	YES						1									j
Methyl iodide	1.10		ug/Kg	J	YES	J				1			J		1		1]
Methylene chloride	1.91		ug/Kg	J	YES	UJ (υ				J				Ì			1
Naphthalene	4.20		ug/Kg	U	YES	וט	1				UJ						1			
n-Butylbenzene	4.20	i	ug/Kg	U	YES	IJ	1		·		UJ								1 1	
n-Propylbenzene	4.20		ug/Kg	บ	YES	· · · · · i													1 1	1
o-Xylene	4.20	ĺ	ua/Ka	U	YES			1				[1		1	
sec-Buly/benzene	4.20		ug/Kg	U	YES :			1				-								
Styrene	4.20	:	ug/Kg	U	YES	UJ	1	١		ì	UJ	1					ĺ			
tert-Butyl methyl ether (MTSE)	4.20		ug/Kg	U	YES		1	1		l		l				1	1		1	

Project Number and Name:

11-032E - 11-032E Carroll Agent Orange

Library Used:

CampCarroll

ADR 8.2

Report Date: 9/6/2011 10:38

Page 71 of 182

5466

[·] 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

Client Sample ID : E11-149-S1 Sample Date : 07/18/2011 Lab Report Batch: 31101915

Analysis Type: RES

Lab ID : SGSW

Sample Matrix: SO

Lab Sample ID: 31101915002

Reviewed By / Date :

Approved By / Date :

Analyte Name	Resuit	Uncertainty / Error	Result Units	Lab Qual		Overall Qual*	Temp	нт	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	ŧC	ICV	CCA CA1
Analysis Method : 8260B					Dilutio	on: 1														***************************************
tert-Butylbenzene	4.20		ug/Kg	U	YES					1	ĺ		1	Ì						
Tetrachloroelhene	4.20		ug/Kg	U	YES				l		1						[
Toluene	1.46		ug/Kg	j	YES	J				1	1	1	J							1
trans-1,2-Dichloroethene	4.20		ug/Kg	U	YES					i	1		1							
trans-1,3-Dichloropropene	4.20		ug/Kg	υ	YES				l				1						1	
trans-1,4-Dichloro-2-butene	21.0		ug/Kg	U	YES		ı				İ		l							
Trichloroethene	4.20		ug/Kg	U	YES		ı						ĺ							
Trichlorofluoromethane	4.20	:	ug/Kg	U	YES	υJ	l		1		UJ				[ì		1	
Vinyl chloride	4.20		ug/Kg	U	YES						1						1		1	
Analysis Method : 8270D					Dilutio	on: 1														
1,2,4-Trichlorobenzene	334	;	ug/Kg	U	YES		1												1	1
1,2-Dichlorobenzene	334		ug/Kg	U	YES								1		1				1	
1,3-Dichlorobenzene	334		ug/Kg	U	YES										1		1			
1,4-Dichlorobenzene	334		ug/Kg	U	YES						í						ĺ		1	
2,4,5-Trichlorophenol	334		ug/Kg	ម	YES			J							1				1	
2,4,6-Trichlorophenol	334		ug/Kg	U	YES										1					İ.
2,4-Dichlorophenol	334		ug/Kg	U	YES										l i				1	
2,4-Dimethylphenol	334		ug/Kg	υ	YES												1		J	
2,4-Dinitrotoluene	334	;	ug/Kg	U	YES	-	1													
2,6-Dinitrotoluene	334		ug/Kg	U	YES	ı	1													
2-Chloronaphthalene	334		ид/Кд	U	YES	1						1							1	
2-Chlorophenol	334	;	ug/Kg	U	YES															
2-Methylnaphthalene	334		ид/Кд	U	YES			. [[1		1	
2-Methylphenol	334		ug/Kg	บ	YES	1	1			ì		1	1			1	1			
2-Nitroaniline	334		ug/Kg	U ;	YES	1	1	1		(1		1	1			
2-Nitrophenol	334	1	ug/Kg	U	YES		1					1		J						
3 and/or 4-Methylphenol	334		ug/Kg	U	YES		1	ı				ĺ	1			I				

Project Number and Name:

11-032E - 11-032E Carroll Agent Orange

Library Used:

Report Date: 9/6/2011 10:38

CampCarroll

Page 72 of 182

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

Client Sample ID : E11-149-S1

Lab Report Batch: 31101915

Sample Date: 07/18/2011 Lab Sample ID: 31101915002 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	нт	МВ	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	IC	(CV	CCA
Analysis Method : 8270D					Diluti	on: 1		************												
3-Nitroaniline	334		ид/Кд	U	YES	:				1	i				1		1 !		1	l
4-Bromophenyl phenyl ether	334		ug/Kg	U	YES												1			
4-Chioro-3-methylphenol	334		ug/Kg	U	YES															
4-Chloroaniline	334		ug/Kg	U	YES		1				1	i i			1		1		1	
4-Chlorophenyl phenyl ether	334		ug/Kg	U	YES		1						İ	i	1					
4-Nitroaniline	334		ug/Kg	υ	YES										1					
4-Nitrophenol	334		ug/Kg	U	YES												[1
Acenaphihene	334		ид/Ко	U	YES															j
Acenaphlhylene	334		ug/Kg	U	YES		·····										1	*******		i
Anthracene	334		ug/Kg	U	YES		·····													[
Benzo(a)anthracene	334		ug/Kg	υ	YES	1									1		ĺ			
Benzo(a)pyrene	334		ug/Kg	U	YES	Ī														i
Benzo(b)fluoranthene	334		ug/Kg	U	YES	Ī														
Benzo(g,h,i)perylene	334		ug/Kg	U	YES	Ī]	
Benzo(k)fluoranthene	334		ид/Кд	U	YES	1									1			****		
Bis(2-Chloroethoxy)methane	334		ug/Kg	Ú	YES	1							1		1			,,,,,,,,,,		
Bis(2-Chloroethyl)ether	334		ug/Kg	U	YES							1	1		l :					1
Bis(2-Chloroisopropyl)elher	334	i	ug/Kg	υ	YES	i	1	1		1		1					1			
Bis(2-Ethylhexyl)phthalate	334	;	ug/Kg	U	YES	1		1	- 1	i		1				1				
Butyl benzyl phthalate	334		ug/Kg	υ ;	YES :	i	1	1			į	J			1		l		ļ J	
Chrysene	334	:	ug/Kg	υ	YES	1	1	1				1	1							
Dibenz(a,h)anlhracene	334		ug/Kg	υ	YES		I	1				1	1			1				
Dibenzofuran	334	:	ug/Kg	U	YES	į	1	1		1		1					!		1 1	
Diethyl phthalate	334		ug/Kg	υţ	YES	}			1	1						1]			
Dimethyl phthalate	334	;	ид/Кд	U	YES	1	1		1			1				1	1			
Di-n-bulyl phthalate	334		ид/Кд	U	YES		1	1	1	1		ı				1	7		4	

Project Number and Name:

11-032E - 11-032E Carroll Agent Orange

Library Used: Ca

Report Date: 9/6/2011 10:38

CampCarroll

Page 73 of 182

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

5468

Client Sample ID: E11-149-S1

Lab Report Batch: 31101915

Lab ID : SGSW

Sample Date: 07/18/2011

Analysis Type: RES

Sample Matrix: SO

Lab Sample ID: 31101915002

Reviewed By / Date:

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	нт	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CCV
Analysis Method : 8270D					Diluti	on: 1														
Di-n-octyl phthalate	334		ug/Kg	U	YES		1 1				l		1	l	1		1	1		
Fluoranthene	334		ug/Kg	U	YES				1		ļ				[1
Fluorene	334	İ	ug/Kg	U	YES						ļ]		1	1			1		
Hexachlorobenzene	334		ug/Kg	U	YES					Ì	` }]		1	1			1		Ī
Hexachlorobuladiene	334		ug/Kg	Ų	YES					1		l]					
Hexachlorocyclopentadiene	334		ug/Kg	ับ	YES								······					}		1
Hexachloroelhane	334		ug/Kg	U	YES					1			i						[[
Indeno(1,2,3-cd)pyrene	334		ug/Kg	U	YES							 	İ							
Isophorone	334		ug/Kg	U	YES								1	i	1 :					
Naphthalene	334		ug/Kg	U	YES						}	!			i i					1
Nitrobenzene	334		ug/Kg	U	YES							 }			I I				 	l
n-Nitrosodi-n-propylamine	334		ug/Kg	υ	YES		1								l I					1
Pentachlorophenol	334		ug/Kg	υ	YES	UJ	i i			υJ		i	l		1				1	
Phenanthrene	334		ug/Kg	Ü	YES		i												i	1
Phenol	334		ug/Kg	U	YES		i								1				l	1
Pyrene	334	:	ug/Kg	U	YES		······					: :	 		ii				l	1

Project Number and Name:

11-032E - 11-032E Carroll Agent Orange

Library Used:

CampCarroll

Report Date: 9/6/2011 10:38 * Overali result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review Page 74 of 182

Client Sample ID : E11-149-S2

Lab Report Batch: 31101915

Lab ID: SGSW

Sample Date: 07/18/2011

Analysis Type: RES

Sample Matrix: SO

Lab Sample ID: 31101915003

Reviewed By / Date:

Approved By / Date :

4.4*-DDE 2.86 ug/Kg J YES	Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	нт	мв	LCS	MS	Lab Dup	Surr		Moist Tot/Dis		Tune	1C	ICV	CCV
Barlum	Analysis Method : 6010C					Dilutio	n: 1			********	-, ,										
Cadminim 1.10	Arsenic	3.42	:	mg/kg		YES							1	1		i					1
Cadmium 1.16 mg/kg YES	Barium	122		mg/kg		YES	J					J	1		ļ						1
Lead		1.16		mg/kg		YES				1						1					
Lead		3.84		mg/kg		YES]						1					
Silver 0.956 mg/kg U YES		14.3		mg/kg		YES	J					J	J								
Silver	Selenium	0.381		mg/kg	J	YES										f I					1
Marcury Marc	Silver	0.956		mg/kg	U ,	YES															
Mercury Marc	Analysis Method : 7471B					Dilutio	n: 1														
4.4-DDD 10.1 ug/Kg U YES		0.0210	i	mg/kg	U	YES :	3						}								1
4.4-DDD 10.1 ug/Kg U YES 4.4-DDE 2.86 ug/Kg J YES 4.4-DDE 2.86 ug/Kg J YES 4.4-DDT 19.2 ug/Kg YES 4.4-DDT 19.2 ug/Kg YES Aldrin 10.1 ug/Kg U YES Aldrin 10.1 ug/Kg U YES Aldrin 10.1 ug/Kg U YES Aldrin 10.1 ug/Kg U YES Aldrin 10.1 ug/Kg U YES	Analysis Method : 8081		***************************************			Dilutio	n: 1														
4.4*DDD 10.1 ug/Kg U YES	4,4'-DDD			ug/Kg	υ	YES		1			l j					lí		l			l
4.4*-DDE 2.86 ug/kg J YES </td <td>4.4'-DDD</td> <td></td> <td></td> <td>ug/Kg</td> <td>U</td> <td>YES</td> <td>ļ</td> <td></td> <td></td> <td> </td> <td> </td> <td></td> <td> </td> <td></td> <td></td> <td>l J</td> <td></td> <td></td> <td></td> <td></td> <td></td>	4.4'-DDD			ug/Kg	U	YES	ļ									l J					
4.4*ODE 2.88 ug/kg J YES	4.4'-DDE		;	ug/Kg	J	YES					}					}					<u> </u>
4.4'-DDT 19.2 ug/Kg YES	4.4'-DDE			ug/Kg	J	YES		Ì								l		i			
4.4'-DOT 19.2 ug/kg YES	4,4'-DDT	19.2		ug/Kg		YES												<u> </u>			<u> </u>
Aldrin 10.1		19,2	;	ug/Kg		YES			1					ļ					l		<u> </u>
Aldrin 10.1 ug/Kg U YES	Aldrin			ug/Kg	U	YES]	1						Ì							
alpha-BHC 10.1 ug/Kg U YES		10.1	İ	ug/Kg	υ	YES	į			ı				J							
alpha-Chlordane 10.1 ug/Kg U YES I <td>alpha-BHC</td> <td>10.1</td> <td></td> <td>ug/Kg</td> <td>U</td> <td>YES</td> <td></td> <td> </td> <td></td> <td> </td> <td>ì</td> <td></td> <td></td> <td>1</td> <td> </td> <td>1</td> <td> </td> <td>1</td> <td> </td> <td></td> <td> </td>	alpha-BHC	10.1		ug/Kg	U	YES					ì			1		1		1			
alpha-Chlordane 10.1 ug/Kg U YES I <td>alpha-BHC</td> <td>10.1</td> <td></td> <td>ug/Kg</td> <td>U</td> <td>YES</td> <td> </td> <td> </td> <td> </td> <td></td> <td> </td> <td>İ</td> <td> </td> <td>1</td> <td></td> <td></td> <td></td> <td>í</td> <td>1</td> <td></td> <td>1</td>	alpha-BHC	10.1		ug/Kg	U	YES						İ		1				í	1		1
beta-BHC 10.1 ug/Kg U YES I	alpha-Chlordane	10.1		ug/Kg	U	YES ;	1		1		1	-		1		i		i	1		
beta-BHC 10.1 ug/Kg U YES I	alpha-Chlordane	10.1		ug/Kg	U	YES			1			1		i		İ			1		i
Chlordane 33.6 ug/Kg U YES	beta-BHC	10.1		ug/Kg	U	YES	i	1		1	1										
Chlordane 33.6 ug/Kg U YES	beta-BHC	10.1		ug/Kg	U	YES		1		j	1		1]		1					1
		33.6		ug/Kg	V	YES				1	}		١	1		}					1
delta-BHC 10.1 ug/Kg U YES	Chlordane	33.6		ug/Kg	υ	YES	1	i	Ī	1				}				(
	delta-BHC	10.1		ug/Kg	U	YES	-		1			I	I		l	i	Ī	-	1		

Project Number and Name:

11-032E - 11-032E Carroll Agent Orange

Library Used: C

Report Date: 9/6/2011 10:38

CampCarroll

Page 75 of 182

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

Client Sample ID : E11-149-S2

Lab Sample ID: 31101915003

Lab Report Batch: 31101915

_ .

Sample Date : 07/18/2011

Analysis Type: RES

Sample Matrix: SO

Lab ID: SGSW

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overali Qual*	Temp	нт	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	iC	ICV	CCV
Analysis Method : 8081				**************	Dilutio	n: 1	**************	********												
delta-BHC	10.1		ug/Kg	U	YES				l		}	}		1			1		1	
Dieldrin	10.1		ug/Kg	U	YES :								l						l	1
Dieldrin	10.1		ug/Kg	U	YES	[I
Endosulfan I	10.1		ug/Kg	ឋ	YES				1											I
Endosulian I	10.1		ug/Kg	U	YES		1				ļ	}			1					
Endosulfan II	10.1		ug/Kg	U	YES	}	1					}								
Endosulfan II	10.1		ug/Kg	Ų	YES		I								i i		1		1	
Endosulfan sulfate	10.1		ug/Kg	V	YES				ĺ				1		Ì				 	1
Endosulfan sulfale	10.1		ug/Kg	u	YES		· · · · · · · · · · · · · · · · · · ·					 							 	1
Endrin	10.1		ug/Kg	U	YES	ii					,				l i					1
Endrin	10.1		ug/Kg	υ	YES ;	1			· · · · · ·		į]						[
Endrin aldehyde	10.1		ug/Kg	U ;	YES	i	1										j į			[
Endrin aldehyde	10.1	i	ug/Kg	U	YES	1									[!	1
Endrin ketone	10.1	;	ug/Kg	U	YES	1														
Endrin kelone	10.1	;	ug/Kg	บ	YES										1		1			
gamma-BHC (Lindane)	10.1		ug/Kg	u ;	YES				1				l		İ		1		1	
gamma-BHC (Lindane)	10,1		ug/Kg	V	YES	j	1		1	j							i		1	
gamma-Chlordane	10.1	i	ug/Kg	U	YES	}	1													1
gamma-Chiordane	10.1	:	ug/Kg	U ;	YES :		1						1						1	
Heplachlor	10.1	i	ug/Kg	U	YES		1		1			1]					l
Heptachlor	10.1	1	ug/Kg	U	YES		1		1											
Heptachlor epoxide	10.1		ug/Kg	U	YES	1	ı			1	I)			
Heptachlor epoxide	10.1		ug/Kg	U	YES	[ĺ		1		1						1	1		
Methoxychlor	10.1		ug/Kg	U	YES	1	1	1	ĺ	i	1	ĺ	1	ĺ	ĺ	ĺ		i		
Methoxychlor	10.1	1	ug/Kg	U	YES			1	1					i						
Toxaphene	33.6		ug/Kg	υ :	YES :	}	1	1	1	3							1			i

Project Number and Name:

11-032E - 11-032E Carroll Agent Orange

Library Used: CampCarroll

ADR 8.2

Report Date: 9/6/2011 10:38

Page 76 of 182

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

Client Sample ID: E11-149-S2

Lab Report Batch: 31101915

Lab ID: SGSW

Sample Date: 07/18/2011 Lab Sample ID: 31101915003 Analysis Type: RES

Sample Matrix: SO

Reviewed By / Date :

Approved By / Date:

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual		Overall Qual*	Temp	нт	МВ	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	ıc	icv	CCV CCV
Analysis Method : 8081					Dilutio	n:1														
Toxaphene	33,6		ug/Kg	U	YES	-			1		1		1		[]		l			1
Analysis Method : 8151					Dilutio	n: 1														
2,4,5-T	0.0168		mg/kg	υ	YES			l			!				1				1	1 1
2,4,5-T	0.0168		mg/kg	υ	YES	1]	1		1							[
2,4,5-TP (Silvex)	0.0168		mg/kg	U	YES	į	ļ		1	l	;		l		F .				1	
2,4,5-TP (Silvex)	0.0168		mg/kg	U	YES				1		ļ				[1	
2,4'-D	0.0168		mg/kg	U	YES										1				1	
2,4'-D	0.0168		mg/kg	U	YES														1	
2,4-DB	0.0168		mg/kg	U	YES	ŧυJ					(U)	1			1					1
2,4-DB	0.0168	;	mg/kg	U	YES	IJ			[UJ		1		1		1			1
Dicamba	0.0168		mg/kg	U	YES						}						i i		1	
Dicamba	0.0168		mg/kg	U	YES	i]		ļ					i		1	
Analysis Method : 8260B					Dilutio	n: 1														
1,1,1,2-Tetrachloroethane	4.45	ĺ	ug/Kg	υ	YES	1	j								ĺ		i			
1,1,1-Trichloroethane	4.45		ug/Kg	U	YES							1							1	
1,1,2,2-Yelrachtoroethane	4,45		ug/Kg	U	YES							1					i			
1,1,2-Trichloroethane	4.45		ug/Kg	U	YES]					1			i				l	1
1,1-Dichloroethane	4.45		ug/Kg	Ų	YES		1								Í		-		1	1
1,1-Dichloroethene	4.45		ug/Kg	U ;	YES		1													[[
1,1-Dichloropropene	4.45		ид/Кд	U	YES]				Į			l	
1,2,3-Trichlorobenzene	4.45		ug/Kg	U	YES :	1						}		1					l	
1,2,3-Trichloropropane	4.45		ug/Kg	υ	YES :	j	1										,			1
1,2,4-Trichlorobenzene	4.45		ug/Kg	U	YES:	บป	1				υJ			· · · · · · · · · · · · · · · · · · ·	ì		1			1
1,2,4-Trimethylbenzene	4.45		ug/Kg	U	YES :	บป	1				IJ]					ì			1
1,2-Dibromo-3-chloropropane	26,7		ug/Kg	υ	YES					i		į		Ì						
1,2-Dibromoethane	4.45	1	ug/Kg	U	YES		······i	········	·······i							·i	i			i i
1,2-Dichlorobenzene	4.45	······	ug/Kg	U	YES		·····i		·· <u>·</u>					·i	1	·····i	1			1

Project Number and Name:

11-032E - 11-032E Carroll Agent Orange

Library Used: CampCarroll

Report Date: 9/6/2011 10:38

Page 77 of 182

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

Client Sample ID : E11-149-S2

Lab Report Batch: 31101915

Lab ID: SGSW

Sample Date: 07/18/2011

Analysis Type: RES

Sample Matrix: SO

Lab Sample ID: 31101915003

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	£ab Qual		Overall Qual*	Temp	нт	МВ	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	IC	icv	CCV
Analysis Method : 8260B					Dilutio	on: 1														
1.2-Dichloroethane	4.45		ug/Kg	u	YES					l	-				1]
1,2-Dichloropropane	4.45	;	ug/Kg	υ	YES		- 1		1			 			1					
1,3,5-Trimethylbenzene	4.45		ug/Kg	U	YES				l											
1,3-Dichlorobenzene	4.45		ug/Kg	U	YES					1					1					
1,3-Dichloropropane	4.45		ug/Kg	U	YES															1
1,4-Dichlorobenzene	4.45		ug/Kg	υ	YES						·····				1					1
2,2-Dichloropropane	4,45		ug/Kg	U	YES		· · · · · · · · · · · · · · · · · · ·		1						i i					l
2-Butanone	2.31		ug/Kg	J	YES	J	1				J									
2-Chlorotoluene	4.45		ug/Kg	U	YES								l /]					1
2-Hexanone	11.1		ug/Kg	υ	YES															
4-Chlorotoluene	4.45		вд/Кд	υ	YES	,	1										1			
4-Isopropyltoluene	4.45		ug/Kg	U	YES															
4-Methyl-2-pentanone	11.1		ug/Kg	U	YES]													
Acelone	8.28	;	ug/Kg	J	YES	J	1	1		J	J									
Benzene	4,45		ug/Kg	U	YES		1													i '
Bromobenzene	4.45		ug/Kg	U	YES		1			i			1				}			
Bromochloromethane	4.45	1	ug/Kg	U	YES				- 1				}							1
Bromodichloromethane	4.45	;	ug/Kg	U	YES	1	1	4	1	i			1		1	1		1		
Bromoform	4.45		ug/Kg	U	YES	ì	1	1)	1					1			1	
Bromomethane	4.45		ug/Kg	U	YES			١			Ī			-						
Carbon disulfide	4.45		ug/Kg	U	YES :				1				1				1		ı	
Carbon tetrachloride	4.45		ug/Kg	U	YES				1		,	1	1			1	1			
Chlorobenzens	4.45		ug/Kg	υ :	YES :	1	- 1	1	1			1				I	1	i		
Chloroelhane	4.45		ug/Kg	U	YES		I	1	1		Ī	1				١		1		-
Chloroform	4.45	1	ug/Kg	U	YES		ı	I		ſ		1		1	1			1	1	
Chloromethane	4.45		ug/Kg	U	YES		1		1	I	1	1]			ŀ		1	1	

Project Number and Name:

ADR 8.2

11-032E - 11-032E Carroll Agent Orange

Library Used: CampCarroll

Report Date: 9/6/2011 10:38

Page 78 of 182

^{*} 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

Client Sample ID : E11-149-S2

Lab Report Batch: 31101915

Lab ID : SGSW

Sample Date: 07/18/2011

Analysis Type: RES

Sample Matrix : SO

Lab Sample ID: 31101915003

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	нт	МВ	LCS	MS	£ab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CCV
Analysis Method : 8260B		**************************************			Difutio	on: 1														
cis-1,2-Dichloroethene	4.45		ug/Kg	U	YES	************				1								*********		1
cis-1,3-Dichioropropene	4,45		ug/Kg	U	YES						ţ	}							1	Ï
Dibromochloromethane	4,45		ug/Kg	U	YES							}		1	1				1	
Dibromomethane	4.45	:	ug/Kg	U	YES					}			l	1			į		1	1
Dichlorodifluoromethane	4.45	;	ug/Kg	U	YES															Ī
Ethyl Benzene	4.45		ug/Kg	Ų	YES		1]									Ï
Hexachlorobuladiene	4,45		ug/Kg	U	YES	UJ	i i			1	ນ	[1							l
Isopropyibenzene (Cumene)	4.45		ug/Kg	υ	YES					1		1								1
m,p-Xylene	8.89		ug/Kg	U	YES							·····	1	•	i i					1
Methyl iodide	4,45		ug/Kg	ีย	YES		1							}		i	j			i
Methylene chloride	2.03		นg/Kg	J	YES	U	1		U				[l í		1			1
Naphthalene	4.45		ug/Kg	U	YES	IJ					UJ	}			1				[
n-Bulylbenzene	4.45		ug/Kg	U	YES	UJ				[UJ				1		·····i			1
n-Propylbenzene	4.45		ug/Kg	U	YES			1									1			1
o-Xylene	4.45		ug/Kg	υ	YES	ì									[]	1	[1
sec-Bulylbenzene	4,45	į	ug/Kg	U	YES	1										1	-			i
Styrene	4.45		ug/Kg	U	YES	IJ					UJ				l i	i	1			l
tert-Bulyl methyl ether (MTBE)	4.45		ug/Kg	U	YES	j	1	1							1	I	1			f
tert-Butylbenzene	4.45	i	ug/Kg	U	YES		1	I	1	į					,		-			1
Tetrachloroethene	4.45		ug/Kg	V	YES			ı	I]						1			1
Toluene	1.72		ug/Kg	J	YES	į		1							l i	1	i			1
trans-1,2-Dichloroethene	4.45		ยg/Kg	υ	YES		1	1			-	١				1				1
Irans-1,3-Dichloropropene	4,45		ug/Kg	U	YES			Î				ı				ı				i
trans-1,4-Dichloro-2-butene	22.2		ug/Kg	υ	YES :		ı	ĺ	1]	i		ĺ			1			i i	
Trichloroethene	4.45		ug/Kg	U	YES	1		1	1			i					1			
Trichlorofluoromethane	4.45		ug/Kg	U :	YES	UJ	1				UJ	1				1				

Project Number and Name:

11-032E - 11-032E Carroll Agent Orange

Library Used: CampCarroll

9 8 9

Report Date: 9/6/2011 10:38

Page 79 of 182

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

Client Sample ID : E11-149-S2

Reviewed By / Date:

Lab Report Batch : 31101915

Lab ID: SGSW

Sample Date: 07/18/2011

Analysis Type: RES

Sample Matrix: SO

Lab Sample ID: 31101915003

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual		Overa Qual*	II Temp	нт	мв	LCS	MS	Lab Đup	Surr	Rep Limit	Moist Tot/Dis		Tune	IC	ICV	CCA
Analysis Method : 8260B					Diluti	ол: 1														
Vinyl chloride	4.45		ug/Kg	U	YES				l				1							
Analysis Method : 8270D					Diluti	on: 1														
1,2,4-Trichlorobenzene	338		ug/Kg	U	YES	1		,				Į .	1		1				1	
1,2-Dichlorobenzene	338		ug/Kg	Ų	YES)			1	ì		1		[1
1,3-Dichlorobenzene	338		ug/Kg	U	YES	;	(l				1							
1,4-Dichlorobenzene	338	:	ug/Kg	υ	YES															
2,4,5-Trichlorophenol	338		ug/Kg	υ	YES															
2,4,6-Trichtorophenol	338		ug/Kg	U	YES				[[i		i i					1
2,4-Dichlorophenol	338		ид/Кд	U	YES															1
2,4-Dimethylphenol	338		ug/Kg	U	YES										l į]			1
2,4-Dinitrotoluene	338		ug/Kg	U	YES										1					1
2,6-Dinitrotoluene	338		ug/Kg	U	YEŞ		1 1													İ
2-Chloronaphthalene	338		ug/Kg	U	YES		1 1				į									1
2-Chlorophenoi	338		ug/Kg	U	YES	}	1 1	i					[i		i			1
2-Methylnaphthalene	338		ug/Kg	U	YES		1				ì			,						1
2-Methylphenol	338		ug/Kg	U	YES															1
2-Nitroaniline	338		ug/Kg	U	YES											.,,,,,,,,,				i
2-Nitrophenol	338		ug/Kg	U	YES					}										i
3 and/or 4-Methylphenol	338		ug/Kg	υ	YES					1	1									
3-Nitroaniline	338		ug/Kg	U ;	YES						,						1			
4-Bromophenyl phenyl ether	338		ug/Kg	U	YES						(ſ				1	
4-Chioro-3-methylphenol	338		ug/Kg	U	YES]								1				
4-Chloroaniline	338	:	ug/Kg	U	YES			-	1	1										
4-Chlorophenyl phenyl ether	338		ug/Kg	U	YES			ı	1	1			1							
4-Nitroaniline	338		ug/Kg	U	YES		[i]							
4-Nitraphenol	338		ug/Kg	U	YES								ii				-			
Acenaphthene	338	1	ug/Kg	U	YES		1				}	i	· · · · · · · · · · · · · · · · · · ·							,

Project Number and Name:

11-032E - 11-032E Carroll Agent Orange

Library Used:

CampCarroll

Page 80 of 182

ADR 8.2

Report Date: 9/6/2011 10:38

* 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

Client Sample ID : E11-149-S2

Lab Report Batch: 31101915

Lab ID : SGSW

Sample Date: 07/18/2011 Lab Sample ID: 31101915003 Analysis Type: RES

Sample Matrix : SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Quat		нт	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	IC	ICV	CV
Analysis Method : 8270D					Dilutie	on: 1														
Acenaphthylene	338		ug/Kg	U	YES]				1	1					1
Anthracene	338		ug/Kg	υ	YES						1				ì					
Benzo(a)anthracene	338	,	ug/Kg	U	YES		. 1		l		-								1	1
Benzo(a)pyrene	338		ug/Kg	U	YES		1												1	
Benzo(b)fluoranthene	338		ug/Kg	V	YES]						1	
Benzo(g,h,i)perylene	338		ug/Kg	υ	YES									1	1		1		[
Benzo(k)fluoranthene	338		ug/Kg	U	YES									[[
Bis(2-Chloroethoxy)methane	338		ug/Kg	U	YES		i 1								ĺ					
Bis(2-Chloroethyl)ether	338	***************************************	ug/Kg	U	YES															i
Bis(2-Chloroisopropyl)ether	338		ug/Kg	υ	YES										i i					1
Bis(2-Ethylhexyl)phthalate	338		ид/Кд	U	YES]				1	1
Butyl benzyl phthalate	338		ug/Kg	Ų	YES															1
Chrysene	338		⊔g/Kg	U	YES]			1						i			
Dibenz(a,h)anthracene	338		ug/Kg	U	YES		Ì	1	1		i				1		l			1
Dibenzoluran	338		ug/Kg	U	YES		I	1			1				1					
Diethyl phlhalate	338	·····	ug/Kg	U	YES						1		- 1		1		Ì		i	
Dimethyl phthalate	338		ug/Kg	υ	YES		1	1				i			l 1		i i	.,		
Di-n-butyl phthalate	338	i	ug/Kg	U	YES	I	· · · · · · · · · · · · · · · · · · ·		i		1	1			1					
Di-n-octyl phthalate	338	1	ug/Kg	U	YES		1	1		1	· · · · · · · · · · · · · · · · · · ·		1	,.,,						
Fluoranthene	338		ug/Kg	U	YES	1	1	l	I	1	1	····	1			1				
Fluorene	338		ug/Kg	υ	YES		1				1	1								· · · · · · · · · · · · · · · · · · ·
Hexachiorobenzene	338		ug/Kg	U	YES					I	{	1			1					
Hexachlorobutadiene	338		ug/Kg	U	YES		1	Î	1	 		i	i						1	
Hexachlorocyclopentadiene	338		ug/Kg	U	YES	<u>-</u>	i-	ĺ	1			 	1						· · · · · ·	
Hexachloroethane	338		ug/Kg	υ	YES		I	l	1	ĺ]		1	1			1		i	
Indeno(1,2,3-cd)pyrene	338	····	ug/Kg	U	YES :	· · · · · · · · · · · · · · · · · · ·			1			Ì	í	· · · · · · · · · · · · · · · · · · ·		1			1	

Project Number and Name:

11-032E - 11-032E Carroll Agent Orange

Library Used: CampCarroll

ADR 8.2

Report Date: 9/6/2011 10:38

Page 81 of 182

^{*} 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

Client Sample ID: E11-149-S2

Lab Report Batch: 31101915

Lab ID: SGSW

Sample Date: 07/18/2011

Analysis Type: RES

Lab Sample ID: 31101915003

Sample Matrix : SO

Reviewed By / Date :							Арр	roved	By /	Date :										
Analyte Name	Result	Uncertainty I	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	нт	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	icv	CC/
Analysis Method : 8270D					Dilutio	on: 1		* . **				••••••								
Isophorone	338		ug/Kg	Ų	YES					1	}	ļ			1		l	1	1	1
Naphthalene	338		ug/Kg	υ	YES						İ			İ	1					l
Vitrobenzene	338		ug/Kg	U	YES										1					[
n-Nitrosodi-n-propylamine	338		ug/Kg	U	YES							ļ	[1			i		1
Pentachlorophenol	338		ug/Kg	υ	YES	IJJ	1			UJ		1	1		1]		1
Phenanthrene	338		ug/Kg	υ	YES		1								į i]		1
Phenol	338	:	ug/Kg	Ų	YES		· · · · · · · · · · · · · · · · · · ·						i			.,	 	i	1	i
Pyrene	338		ug/Kg	······	YES		i				 	` 	1		1		 	: }		i

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

Library Used: Report Date: 9/6/2011 10:38

CampCarroll

Page 82 of 182

* 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

Client Sample ID: E11-149-S3

Lab Report Batch: 31101915

Lab ID: SGSW

Sample Date : 07/18/2011 Lab Sample ID: 31101915006 Analysis Type: RES

Sample Matrix: SO

Reviewed By / Date :

Approved By / Date :

		Uncertainty /	Result	Lab	Rep	Overall						Lab			Moist					CV/
Analyte Name	Result	Error	Units	Qual	Res	Qual*	Temp	HT	MB	LCS	MS	Dup	Surr		Tot/Dis		Tune	IC	ICV	CCV
Analysis Method : 6010C					Dilutio	n: 1														
Arsenic	1.75		mg/kg		YES			l	<u> </u>		<u> </u>	İ	<u> </u>	1	1					<u> </u>
Barium	132		mg/kg		YES	J				1	J	<u> </u>	<u> </u>	[<u> </u>]	<u> </u>
Cadmium	0.656		mg/kg		YES	Ų			υ			ļ							1	<u> </u>
Chromium	3.43		mg/kg		YES	Ų			U		1			l						ļ
Lead	13.6		mg/kg		YES	J					J	J	1							1
Selenium	1.82		mg/kg	U	YES		١				}		1	i	1					1
Silver	0.912		mg/kg	U	YES					1			[1			
Analysis Method : 7471B				********	Dilutio	n: 1														
Mercury	0.0199	;	mg/kg	U	YES		{			1	İ		1							
Analysis Method : 8081					Dilutio	n: 1														
4,4'-DDD	9.95		ug/Kg	U	YES				[l			l				!		l	<u> </u>
4,45DDD	9.95		ug/Kg	U	YES					l		<u> </u>	[]		l		Ĺí		l	1
4,4'-DDE	0.515		ug/Kg	JР	YES															
4,4'-DDE	0.515		ug/Kg	JР	YES ;		1								[i					
4,4'-DDT	5.43		ид/Кд	J	YES		l]			
4,4'-DDT	5.43	;	ug/Kg	J	YES										1		ĺ			
Aldrin	9.95		ug/Kg	U	YES										1		į			
Aldrin	9.95		ug/Kg	U	YES										l		j			
alpha-BHC	9.95	:	ug/Kg	U	YES		1													
alpha-BHC	9.95		ug/Kg	U	YES					}	}					1				
alpha-Chlordane	9.95	İ	ug/Kg	U	YES	i		1		1					1		1			
alpha-Chlordane	9.95		ug/Kg	υ	YES	į			1				1		1	1	1	1		
bela-BHC	9.95		ug/Kg	υ	YES	,		1					-				1			
beta-BHC	9.95	Ì	ug/Kg	υ	YES :		1	1												
Chlordane	33.1	1	ug/Kg	U	YES					1	1									
Chlordane	33,1		ug/Kg	U	YES :				· · · · · · · · · · · · · · · · · · ·]	i	
della-BHC	9.95		ug/Kg	U	YES					i					1	Ì	1			•

Project Number and Name:

11-032E - 11-032E Carroll Agent Orange

Library Used:

CampCarroll

ADR 8.2

Report Date: 9/6/2011 10:38

Page 83 of 182

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

Client Sample ID : E11-149-S3

Lab Report Batch: 31101915

Lab ID: SGSW

Sample Date: 07/18/2011 Lab Sample ID: 31101915006 Analysis Type: RES

Sample Matrix: SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quai	Rep Res	Overall Qual*	Temp	нт	мв	LCS	MS	Lab Dup	Surr		Moist Tot/Dis		Tune	IC	ICV	CCV
Analysis Method : 8081					Dilutio	on: 1														
delta-BHC	9.95		ug/Kg	Ų	YES			1		1						************			1	Ī
Dieldrin	9.95		ug/Kg	U	YES				[ļ	}	1		1 1					1
Dieldrin	9,95		ug/Kg	U	YES		,				 	 					1			1
Endosulian i	9,95		ug/Kg	U	YES		1				Ī									
Endosulfan I	9.95		ug/Kg	U	YES															Ì
Endosulfan II	9.95		ug/Kg	U	YES]									ĺ
Endosulfan II	9,95		ug/Kg	U	YES															1
Endosulian sulfate	9,95		ug/Kg	U	YES										1 1					1
Endosulfan sulfale	9.95		ug/Kg	Ų	YES										1					
Endrin	9,95		ug/Kg	U	YES												!			1
Endrin	9.95		ug/Kg	Ü	YES												l i			[
Endrin aldehyde	9.95		ug/Kg	U	YES															1
Endrin aldehyde	9.95		ug/Kg	U	YES ;				i											1
Endrin ketone	9.95		ug/Kg	U	YES															
Endrin kelone	9.95		ug/Kg	U	YES	.,,,,,,,,,,		1					i		i					
gamma-8HC (Lindane)	9.95		ug/Kg	υ	YES		I	1					j							
gamma-BHC (Lindane)	9,95	i	ug/Kg	U	YES		1	1	1				- 1							1
gamma-Chiordane	9,95	į	ug/Kg	บ	YES]	1		1				1				1			ĺ
gamma-Chlordane	9.95		ug/Kg	U	YES	1	1	1]	l	· · · · · · · · ·	-	1		- 1			1
Heptachlor	9.95	ì	ug/Kg	U	YES		1	1						· · · · · · · · · · · · · · · · · · ·	1					1
Heptachlor	9.95		ug/Kg	U	YES		1	1	1			I	1		1					1
teptachlor epoxide	9.95		ug/Kg	U	YES	1	Ì	1	1							· · · · · · · · · · · · · · · · · · ·				1
leptachlor epoxide	9.95		ug/Kg	U	YES												1			1
Methoxychlor	9.95		ug/Kg	U	YES	 	i	1			1	1					1			
Methoxychior	9,95	•••••••	ug/Kg	U	YES	i	:i	ì	Ï			1	i	i	i i		i		······i	
Toxaphene	33,1		ug/Kg	u	YES		· · · · · · · · · i	i						i	i.		·····i	٠	`	

Project Number and Name:

11-032E - 11-032E Carroll Agent Orange

Library Used: CampCarroll

ADR 8.2

Report Date: 9/6/2011 10:38

Page 84 of 182

^{*} 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

Client Sample ID: E11-149-S3

Lab Report Batch: 31101915

Lab ID: SGSW

Sample Date: 07/18/2011 Lab Sample ID: 31101915006 Analysis Type: RES

Sample Matrix: SO

Reviewed By / Date :							App	rovec	i By /	Date :										
Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quai	Rep Res	Overall Qual*	Temp	нт	мв	LCS	Ms	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	ıc	ICV	CV/
Analysis Method : 8081					Dilutio	on: 1		***************************************			************									
Toxaphene	33.1		ug/Kg	U	YES				ļ		ļ	ì	[ì	1]			
Analysis Method : 8151	****				Difutio	on: 1								·						
2,4,5-T	0.0167	;	mg/kg	U	YES				l	l			1		1					Ī
2,4,5-T	0.0167		mg/kg	U	YES		1			l			1	ļ	1				1	1
2,4,5-TP (Silvex)	0.0167		mg/kg	U	YES							}		ì	1]	1
2,4,5-TP (Silvex)	0.0167		mg/kg	U	YES	i			1	1]	i	i	1					1
2,4'-0	0.0167		mg/kg	IJ	YES		1		i		1	i	1	I	1				1	1
2,4'-D	0.0167		mg/kg	U	YES		1		 				1	 						1
2,4-DB	0.0167		mg/kg	U	YES	IJ	1		` 	,	UJ		1	i	1 1		1			1
2.4-DB	0.0167		mg/kg	Ų	YES	UJ			([UJ]	1	1	i i				1	1
Dicamba	0.0167		mg/kg	U	YES		1					}	ļ		i i				1	1
Dicamba	0.0167		mg/kg	U	YES		· · · · · · · · i					: 	1	: 	i i					i
Analysis Method : 8260B			and the fact.		Dilutio	n: 1									1					
1,1,1,2-Tetrachloroelhane	4.60		ug/Kg	U	YES										l i					!
1,1,1-Trichloroethane	4.60		ug/Kg	U	YES]	1					 			i i				l	1
1,1,2,2-Tetrachloroethane	4.60		ug/Kg	U	YES :	}	1						1							
1,1,2-Trichloroethane	4.60		ug/Kg	υ	YES	į	i								1					İ
1,1-Dichloroelhane	4.60		ug/Kg	U	YES			· · · · · ·				!	1		l .	.,				i
1,1-Dichloroethene	4.60		ug/Kg	U	YES		1							_,,	1		}		1	
1,1-Dichloropropene	4.60		ug/Kg	υ	YES		i	1					1		F	i				
1,2,3-Trichlorobenzene	4.60		ug/Kg	U	YES	-	i	1					i						· 	
1,2,3-Trichloropropane	4.60	·	ug/Kg	บ	YES	i		Ì					! 		1				·	i
1,2,4-Trichlorobenzene	4.60		ug/Kg	U	YES	UJ	·i	1		· · · · · · · · · · · · · · · · · · ·	Ų					 	· · · · · · · · · · · · · · · · · · ·			i
1,2,4-Trimethylbenzene	4.60		ид/Кд	U	YES	UJ		<u>`</u>	ا		UJ				l			*******		
1,2-Dibromo-3-chloropropane	27.6	······	ug/Kg	U	YES	i.	i. 	2	i		. <i>.</i>			·····	ii	<u>'</u>	i		i	i
1,2-Dibromoethane	4.60		ug/Kg	U	YES	· · · · · · · · · · · · · · · · · · ·		ì	·'	:			i	i			<u>-</u> -			:
1,2-Dichlorobenzene	4.60		ug/Kg	u ;	YES	i							::: 							1

Project Number and Name:

11-032E - 11-032E Carroll Agent Orange

Library Used:

Report Date: 9/6/2011 10:38

CampCarroll

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

Page 85 of 182

Client Sample ID: E11-149-S3

Lab Report Batch: 31101915

Lab ID : SGSW

Sample Date: 07/18/2011 Lab Sample ID: 31101915006 Analysis Type: RES

Sample Matrix : SO

Reviewed By / Date :

Approved By / Date:

									,											
Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overali Qual*	Тетр	нт	мв	LCS	MS	Lab Dup	Surr		Moist Tot/Dis		Tune	IC	icv	CCV
Analysis Method : 8260B					Dilutio	on: 1														
1,2-Dichloroethane	4.60	•	ug/Kg	U	YES	:					Į				!		1		Į	ı
1,2-Dichloropropane	4,60		ug/Kg	U	YES		1		1		ļ				1					
1,3,5-Trimethylbenzene	4.60		ug/Kg	U	YES				1	1		1	l		1				1	l
1,3-Dichlorobenzene	4.60	;	ug/Kg	U	YES							1		1	1				1	[
1,3-Dichloropropane	4.60	;	ug/Kg	U	YES					1			-]
1,4-Dichlorobenzene	4.60		ug/Kg	υ	YES										1					1
2,2-Dichloropropane	4.60		ug/Kg	U	YES		I												1	1
2-Bulanone	23.0		ug/Kg	U	YES		1						1				i		[1
2-Chiorotoluene	4.60		ug/Kg	υ	YES		I		1			;	1	İ				**		
2-Hexanone	11.5		ug/Kg	Ų	YES				1			•		i			}			1
4-Chlorofoluene	4.60		ug/Kg	υ	YES									•	1					
4-isopropyttoluene	4.60		ug/Kg	U	YES						1	1							1	
4-Methyl-2-pentanone	11.5		ug/Kg	U	YES	,	1						i		1 1					1
Acetone	6.25		ug/Kg	J	YES	J]			J	J		J							l.
Benzene	4,60		ug/Kg	U ;	YES		1													1
Bromobenzene	4,60		ug/Kg	Ų	YES		1													
Bromochloromethane	4.60	i	ug/Kg	U	YES		1			[J		1	İ
Bromodichloromethane	4.60	į	ug/Kg	U	YES		1						i i		1		1		1	1
Bromoform	4.60		ug/Kg	U	YES	1									1		1			1
Bromomethane	4.60		ug/Kg	U	YES		1	1							l i		1			1
Carbon disulfide	4.60	i	ug/Kg	υ	YES		1						[1				1	1
Carbon tefrachloride	4.60		ug/Kg	U	YES		1	i		***										
Chlorobenzene	4.60	ĺ	ug/Kg	u	YES	1				3			l						1	1
Chloroethane	4.60		ug/Kg	U	YES															
Chloroform	4.60	1	ug/Kg	U	YES		1	1]	1	ì		1	1
Chloromethane	4.60		ug/Kg	υ	YES		I	1							1		1			l

Project Number and Name:

11-032E - 11-032E Carroll Agent Orange

Library Used: CampCarroll

Report Date: 9/6/2011 10:38

Page 86 of 182

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

Client Sample ID: E11-149-S3 Sample Date: 07/18/2011

Lab Report Batch: 31101915

Analysis Type: RES

Lab ID : SGSW

Sample Matrix: SO

Lab Sample ID: 31101915006

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quat	Rep Res	Overall Quai*	Temp	нт	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	(CV	CCV
Analysis Method : 8260B					Dilutio															
cis-1,2-Dichloroethene	4.60		ug/Kg	U	YES				f				1		1		Ī		1	ī
cis-1,3-Dichloropropene	4.60		ug/Kg	Ų	YES		i		' 	/ 	<i>;</i> 	: 	! !				 I		 	i
Dibromochloromethane	4.60	**************	ug/Kg	U	YES				 	;]	 1	i	i		i		·		 	i
Dibromomethane	4,60	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ug/Kg	υ	YES				`	: 	 !		: 		i				: [i
Dichlorodifluoromethane	4.60		ug/Kg	U	YES					:	/ 		: 	' 	! 				 	1
Ethyl Benzene	4.60		ug/Kg	U	YES				' 	i	: 		! 		! <i>-</i> !				 I	1
Hexachlorobutadiene	4.60		ug/Kg	U	YES	UJ	·i		' 	: 	เม	: 	!		i				: 	i
isopropylbenzene (Cumene)	4.60		ug/Kg	υ	YES	1	· · · · · · · · · · · · · · · · · · ·		`	 		: 	: · 	***	i				: 	i
m.p-Xylene	9,20		ug/Kg	U	YES	1				i	1		i		ii		 		: 	
Melhyl lodide	4.60		ug/Kg	U	YES		<u>:</u>								i .				:]	1
Methylene chloride	0.892		ug/Kg	J	YES	IJ	<u>;</u>]	U			·	J		İ		· · · · · · · · ·		i	i
Naphthalene	4.60		ug/Kg	U	YES	UJ	·	······		 	UJ								 I	
n-Butylbenzene	4.60		ug/Kg	U	YES	UJ				 	UJ			•••••			i	• • • • • • • • •	 	i
n-Propylbenzene	4.60		ug/Kg	ម	YES	1	i	Î												i · · · · · · · · · · · · · · · · · · ·
>-Xylene	4,60		ug/Kg	U	YES	1	· · · · · · · · · · · · · · · · · · ·	 Î											! !	i
sec-Bulylbenzene	4.60		ug/Kg	U	YES		i	 												i
Styrene	4.60	:	ug/Kg	Ų	YES	UJ	1				ŲJ									1
ert-Butyl methyl ether (MTBE)	4.60	·····	ug/Kg	U	YES		1	Î									i			1
ert-Butylbenzene	4.60		ug/Kg	U	YES			1									1			1
Fetrachloroethene	4.60		ug/Kg	U	YES	· · · · · · · · · · · · · · · · · · ·	1	Ì						· · · · · · · · · · · · · · · · · · ·			······			1
foluene	4.60		ид/Кд	U	YES	1	1	· · · · · · · · · · · · · · · · · · ·	1		·····				· · · · · · · · · · · · · · · · · · ·	i	1			
rans-1,2-Dichloroethene	4.60		ug/Kg	U	YES	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1	ì	1		i	1	1							1
rans-1,3-Dichloropropene	4.60	1	ug/Kg	υ	YES			<u>`</u> .			ì				· · · · i	i				1
rans-1,4-Uichloro-2-butene	23.0		ug/Kg	V	YES	i	<u>'</u> -	i	<u>/</u>			i			1	i		i		1
richloroelhene	4.60	1	ug/Kg	U	YES		1	<u>.</u>		······	1		! 	· · · · · · i		: 1				
richlorofluoromethane	4,60	·····	ug/Kg	υ:	YES	IJ		·····	··· · · · · · · · · · · · · · · · · ·	· ··· · i	UJ	·····i		·····i		1				

Project Number and Name: ADR 8.2

11-032E - 11-032E Carroll Agent Orange

Library Used:

Report Date: 9/6/2011 10:38

Page 87 of 182

* 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

Client Sample ID : E11-149-S3
Sample Date : 07/18/2011

Lab Report Batch: 31101915

Lab ID : SGSW

Lab Sample ID: 31101915006

Analysis Type: RES

Sample Matrix : SO

Reviewed By / Date:

Approved By / Date :

Analysis Method : 8260B Vinyl chloride Analysis Method : 8270D 1,2.4-Trichlorobenzene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 2,4.5-Trichlorophenol	336 335 335 335 335 335 335	!'- 	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg	U U U U	Dilution YES Dilution YES YES YES YES			 				<u> </u>	l		<u> </u>] 	<u></u>
Analysis Method : 8270D 1,2,4-Trichlorobenzene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 2,4,5-Trichlorophenol	335 335 335 335 335 335 335	!'- 	ug/Kg ug/Kg ug/Kg ug/Kg	U U U	Dilution YES YES YES			 							<u> </u>				 	1
Analysis Method : 8270D 1.2.4-Trichlorobenzene 1.2-Dichlorobenzene 1.3-Dichlorobenzene 1.4-Dichlorobenzene 2.4.5-Trichlorophenol	335 335 335 335 335 335		ug/Kg ug/Kg ug/Kg	U U U	YES YES YES	on: 1		l]					1
1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 2,4,5-Trichlorophenol	335 335 335 335 335 335		ug/Kg ug/Kg ug/Kg	U U U	YES YES			l	l				l							1
1,3-Dichlorobenzene 1,4-Dichlorobenzene 2,4,5-Trichlorophenoi	335 335 335 335 335		ug/Kg ug/Kg	U	YES		<u>.</u>	l	1											1
1,4-Dichlorobenzene 2,4,5-Trichlorophenol	335 335 335 335		ug/Kg	ีย				!	1											1
2.4.5-Trichlorophenol	335 335 335				YES				1	İ										1
	335 335		ug/Kg	11																
2 4 6-Trichleronbengi	335			:	YES	1											}		1	1
Z,ije ilielieleje.			ид/Кд	V	YES										l l	• • • • • • • • • • • • • • • • • • • •				
2,4-Dichlorophenol			ug/Kg	U	YES												[1	
2,4-Dimethylphenol	335		ug/Kg	U	YES	1	j												1	1
2,4-Dinitrotoluene	335		ug/Kg	U	YES	1	· · · · · · ·								1				1	1
2,6-Dinitrotoluene	335		ид/Кд	U	YES	i				· · · · · · i			·				1			
2-Chloronaphthalene	335		ug/Kg	U	YES		1						í							1
2-Chlorophenol	335		ид/Кд	U	YES		1								J					1
2-Methylnaphthalene	335		ug/Kg	U }	YES		I				I		j		ſ		1			1
2-Methylphenol	335		ug/Kg	U	YES						1	1	1				1			
2-Nitroaniline	335		ug/Kg	U	YES						}		1				}			i '
2-Nitrophenol	335		ug/Kg	U	YES	1				i		I						i		1
3 and/or 4-Methy/phenol	335		ug/Kg	U	YES	í								1	1			····		
3-Nitroaniline	335		ug/Kg	U	YES	1									1			·····		
4-Bromophenyl phenyl ether	335		ug/Kg	U	YES]		1			1	!				1			
4-Chioro-3-methylphenol	335		ug/Kg	U	YES :	1	,		1	1	;	I	}				1			1
4-Chloroaniline	335		ug/Kg	U	YES	1			i	}	-	I		1	Ī	1				
4-Chlorophenyl phenyl ether	335		ug/Kg	υ	YES		· · · · · · · · · · · · · · · · · · ·					·····i		1	1	1		· · · · · · · · · · · · · · · · · · ·		
4-Nitroaniline	335		ug/Kg	U	YES									i						
4-Nitrophenol	335		ug/Kg	U	YES				·····		1	·····i	1				1			
Acenaphthene	335		ug/Kg	υ	YES	1	1			3			;							

Project Number and Name:

ADR 8.2

11-032E - 11-032E Carroll Agent Orange

Library Used: CampCarroll

Report Date: 9/6/2011 10:38

Page 88 of 182

^{*} 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

Client Sample ID: E11-149-S3 Sample Date: 07/18/2011

Lab Report Batch: 31101915

Lab ID: SGSW

Lab Sample ID: 31101915006

Analysis Type: RES

Sample Matrix: SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quai		Overall Quai*	Temp	нт	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	IC.	ICV	CCV
Analysis Method : 8270D					Dilutio	on: 1			***************************************											
Acenaphthylene	335		ug/Kg	U	YES				1	l	1		l .	[]		[]		l	1
Anthracene	335		ug/Kg	U	YES				l	1			1		1				 	1
Benzo(a)anlhracene	335		ug/Kg	U	YES					1										1
Benzo(a)pyrene	335		ug/Kg	U	YES	1			[l	l .									
Benzo(b)fluoranthene	335		ug/Kg	U	YES	[<u> </u>								l i		1		l	
Benzo(g,h,i)perylene	335		ид/Кд	υ	YES		I						3		1 1				1	1
Benzo(k)fluoranthene	335		ug/Kg	υ	YES				1											i
Bis(2-Chloroethoxy)methane	335		ug/Kg	U	YES										l .		1		i 	1
Bis(2-Chloroethyl)ether	335		ug/Kg	U	YES					1					1				1	1
Bis(2-Chloroisopropyl)ether	335		ug/Kg	U	YES										i i					į Į
Bis(2-Ethylhexyl)phthalale	335		ug/Kg	U	YES		 أ												i 	
Butyl benzyl phthalate	335		ug/Kg	U	YES		· · · · · · · · · · · · · · · · · · ·] 				.,	i
Chrysene	335		ug/Kg	υ	YES		ĺ	1		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				•••••	1					1
Dibenz(a,h)anthracene	335		ug/Kg	U	YES		· · · · · · · · · · · · · · · · · · ·													1
Dibenzofuran	335		ug/Kg	υ	YES		i				i						i	· · · · · · i		i
Diethyl phthalate	335		ug/Kg	υ	YES	i	1						i				}			[
Dimethyl phthalate	335		ug/Kg	U	YES			1			1						1			
Di-n-butyl phlhalale	335		ug/Kg	U	YES	1		1		1	1	1					i	· · · · · · ·		
Di-n-octyl phlhafale	335		ид/Кд	U	YES	1	1	1	1	i	1	I	f		1	i	1	i		1
Fluoranthene	335		ug/Kg	U	YES		1	ì		j	i					Ì	1			1
Fluorene	335		ug/Kg	U	YES		1	l	· · · · · · · · · · · · · · · · · · ·	1							i			i
Hexachiorobenzene	335	•	ид/Кд	U	YES :	1		l	1	ì	;	1	1				1	1		
Hexachlorobutadiene	335	1	ug/Kg	U	YES		1				ii	1				: 1				i
Hexachlorocyclopentadiene	335		ug/Kg	U	YES	·····i	i ,	········ 			············	i		! I	1	······i				
Hexachloroethane	335		ug/Kg	υ	YES	i.		1	i		 	······i		······!		i		 ا		
Indeno(1,2,3-cd)pyrene	335	1	ug/Kg	U	YES		··············	i	i			······		:i		i				

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

Library Used: CampCarroll

Report Date: 9/6/2011 10:38

Page 89 of 182

^{*} 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

Client Sample ID : E11-149-S3

Lab Report Batch: 31101915

Lab ID: SGSW

Sample Date: 07/18/2011

Analysis Type: RES

Sample Matrix: SO

Lab Sample ID: 31101915006

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overali Qual*	Temp	нт	MB	LCS	MS	Lab Đượ	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CCA
Analysis Method : 8270D					Diluti	on: 1														
Isophorone	335		ug/Kg	U	YES	:	1		1	1	1	1							1	Ī
Naphlhaiene	335		ug/Kg	U	YES	:		l		1		[[1				1	1
Nitrobenzene	335		ug/Kg	U	YES		i		1						1				<u></u>	1
n-Nitrosodi-n-propylamine	335		ug/Kg	U	YES	:	!		l				1		1				1	1
Pentachlorophenol	335		ug/Kg	υ	YES	IJ	í I		1	UJ			1						Ī	į
Phenanthrene	335		ug/Kg	U	YES				1	i			1		1				 	1
Phenol	335		ug/Kg	Ü	YES	:			1	1	 	 				•••••			1	i
Pyrene	335		ug/Kg	U	YES				ì I	<u> </u>	 	!			i				: 	1

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

Library Used: CampCarroll

ADR 8.2

Report Date: 9/6/2011 10:38

Page 90 of 182

* 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

Client Sample ID : E11-150-S1 Sample Date : 07/18/2011 Lab Report Batch: 31101915

Analysis Type: RES

Lab ID : SGSW

Sample Matrix : SO

Lab Sample ID: 31101915016

Reviewed By / Date:

Approved By / Date :

Analyte Name	Result	Uncertainty I Error	Result Units	Lab Qual	Rep Res	Overali Qual*	Temp	нт	мв	LCS	MS	Lab Dup	Surr		Moist ToUDis		Tune	IC	icv	CV
Analysis Method : 6010	C				Dilutio	วก: 1														
Arsenic	3.19		mg/kg		YES				1			;	1		1 1		ĺ	***************************************	1	1
Barium	90.4		mg/kg		YES	J					J	 			1	••••••	1		1	1
Cadmium	0.751		mg/kg		YES	u			υ		!						1		Î	1
Chromium	3.87		mg/kg		YES	}	1			l				,,,			1			1
Lead	11.8		mg/kg		YES	J	Ì				J	J			1		l I		 	1
Selenium	2.06		mg/kg	U	YES					[, <i>-,</i> , ,			l		i I		/ 	i
Silver	1.03		mg/kg	U	YES														: 	i
Analysis Method : 7471	3			•••	Dilutio	n: 1										*******				f
Mercury	0,00381	į	mg/kg	J	YES												3	*****	1	
Analysis Method : 8081					Dilutio	n: 1													·	
4,4'-DDD	9.85		ug/Kg	U	YES	1	1									-	l			Ī
4,4'-DDD	9.85		ug/Kg	U	YES					l	,			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Į	ĺ	ļ		1	
4,4'-DDE	0.617		ug/Kg	JP	YES :								}				i			
4.4'-DDE	0.617	į	ug/Kg	JP	YES]										
4,4'-DDT	1.87	j	ug/Kg	J	YES		1					ı	,]	1			1	[
4,4'-DDT	1.87	Ï	ug/Kg	J	YES		1]					1		1	ĺ				
Aldrin	9.85]	ug/Kg	U	YES	1]					í							i
Aldrin	9.85		ug/Kg	U	YES		Ī	i	1											
alpha-BHC	9,85		ug/Kg	U	YES		1				}	1	i			i	1		i	
alpha-BHC	9.85		ug/Kg	U	YES		1	1				ì			i	· · · · · · · · · · · · · · · · · · ·	1			
alphs-Chlordane	9.85		ug/Kg	U	YES				· · · · · · · · · · · · · · · · · · ·	í					i		1			
alpha-Chlordane	9.85		ug/Kg	U	YES ;					· · · · · · · · · · · · · · · · · · ·	······	·····i				··	i i			
bela-BHC	9.85		ug/Kg	Ü	YES :	ļ	I]	1			1	i	1		······	1		i	*******
peta-BHC	9.85	:	ug/Kg	υ	YES		i	ì	·····			······i		! I		1		·		
Chlordane	32.8	······································	ug/Kg	U	YES		-	······	:	·······		<u>:</u> 	1			······	i-		! I	
Chlordane	32.8		υg/Kg	V	YES :		·····	<u>-</u>	·i		· · · · · · · · · · · · · · · · · · ·	i i	· · · · · · · · · · · · · · · · · · ·		i- 	<u>-</u>	\- 1			
delta-BHC	9.85	:	ug/Kg	U	YES		···········	· · · · · · · · ·	<u>/</u>		······							نا ا		

Project Number and Name:

ADR 8.2

11-032E • 11-032E Carroll Agent Orange

Library Used: CampCarroll

Report Date: 9/6/2011 10:38

Page 91 of 182

^{*} 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

Client Sample ID : E11-150-S1

Lab Report Batch: 31101915

Lab ID: SGSW

Sample Date : 07/18/2011 Lab Sample ID: 31101915016

Analysis Type: RES

Sample Matrix: SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual		Overail Qual*	Temp	нт	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	IC	ICV	CV/
Analysis Method : 8081		*			Dilutio	on: 1											·			
della-BHC	9.85		ug/Kg	υ	YES				1	1		!	1		1		ļ		1	
Dieldrin	9.85		ug/Kg	U	YES								` 	1	<u> </u>				 	
Dieldrin	9.85		ug/Kg	U	YES								:			٠			: 	:
Endosulfan I	9.85		ug/Kg	U	YES										i				i	:
Endosulfan i	9.85		ид/Кд	U	YES										j				: I	i I
Endosulfan li	9.85		ug/Kg	U	YES										i		·····		 	:
Endosulfan li	9.85		ug/Kg	υ	YES									 	ii				/ 	: I
Endosulfan sulfate	9.85		ug/Kg	U	YES		1								1		· · · · · · · · · · · · · · · · · · ·		i I	!
Endosulfan sulfate	9,85		ug/Kg	U	YES		1								i				: 	; [
Endrin	9.85		ug/Kg	υ	YES		1			1					1			* *		
Endrin	9.85		ug/Kg	U	YES										i i		·····		/ 	¦
Endrin aldehyde	9.85		ug/Kg	U	YES		1								j	i	······			:
Endrin aldehyde	9.85		ug/Kg	U .	YES	1		1			i					······				:
Endrin ketone	9.85		ug/Kg	U	YES						;	1		i						
Endrin ketone	9.85		ug/Kg	U	YES			I			I			i		1				
gamma-BHC (Lindane)	9,85		ug/Kg	U j	YES	1		1	1	·····				i		1				
gamma-BHC (Lindane)	9.85		ug/Kg	U	YES			l		1	i	1		· · · · · · · · · · · · · · · · · · ·		ì	î			
gamma-Chlordane	9.85		ug/Kg	U	YES	1	1	1		· · · · · · · · · · · · · · · · · · ·	1	1	1	i		1	· · · · · · · · · · · · · · · · · · ·			
gamma-Chlordane	9.85	;	ug/Kg	U	YES		1	1	1					1		1				
-leptachlor	9.85		ug/Kg	V	YES			1	ı	}	1	1	i	····i	1	1			 	
-feptachlor	9.85		ug/Kg	υ	YES	,			1		1	i	1	· · · · · · · · · · · · · · · · · · ·	1	ĺ	 I		<u>:</u>	· · · · · · ·
deptachler epoxide	9.85		ug/Kg	u j	YES		1	1	1			I	1		1	ì			····	
deplachlor epoxide	9.85		ug/Kg	U ;	YES :	i	1	Î	1	1	1	Ì	1			ì				
viethoxychlor	9.85	;	ug/Kg	U	YES	1	1	1			,	1		1		······		/	,	i
dethoxychlor	9,85	ì	ug/Kg	U	YES	i		Î	1		1	1	1	i		i	i	1	······/	·····i
oxaphene (32.8	i	ug/Kg	U	YES	1	1	ì	1	1	1					ì		 I	·····i	· ······:

Project Number and Name:

ADR 8.2

11-032E - 11-032E Carroll Agent Orange

Library Used: CampCarroll

ame. Treate Sanon Agent Oftenge

Report Date: 9/6/2011 10:38

Page 92 of 182

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

Client Sample ID : E11-150-S1

Lab Report Batch: 31101915

Lab ID: SGSW

Sample Date : 07/18/2011

Lab Sample ID: 31101915016

Analysis Type: RES

Sample Matrix: SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual		Overa Qual	il Temp	нт	МВ	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	IC	ICV	CCV CCV
Analysis Method : 8081					Dilutio	วก: 1				-,-,										
Toxaphene	32.8		ид/Кд	ย	YES				1	1	1		1	1						1
Analysis Method : 8151					Dilutio	n: 1														
2,4,5·T	0.0165	;	mg/kg	U	YES		1		l			ì	l	1	 		1			
2,4,5-T	0.0165		mg/kg	U	YES				1		1			1						
2,4,5-TP (Silvex)	0.0165		mg/kg	U	YES	UJ			1	1	UJ				[1			1
2,4,5-TP (Silvex)	0.0165		mg/kg	Ų	YES	UJ			1		UJ						1			1
2,4'-D	0.0165		mg/kg	U	YES	UJ	1 1		l		UJ	ļ			1				1	
2,4'-D	0.0165		mg/kg	U	YES	IJ					UJ	}]	1
2,4-DB	0.0165		mg/kg	Ü	YES				[1					1	
2.4-D8	0.0165		mg/kg	U	YES]											
Dicamba	0.0165		mg/kg	U	YES						!				1					
Dicamba	0.0165		mg/kg	U	YES		1					<u> </u>	1				3]	
Analysis Method : 8260B		·			Dilutio	n: 1														
1,1,1,2-Tetrachloroethane	4.40		ug/Kg	U	YES		1												<u> </u>	ĺ
1,1,1-Trichloroethane	4.40		ug/Kg	U	YES		i					}								
1,1,2,2-Tetrachloroethane	4.40		ug/Kg	U	YES							<u> </u>								
1,1,2-Trichloroethane	4.40		ug/Kg	U	YES		i I													1
1,1-Dichforoethane	4.40		ug/Kg	U	YES															
1,1-Dichloroelhene	4.40		ug/Kg	U	YES											i				('
1,1-Dichloropropene	4.40		ug/Kg	υ	YES												1			ii
1,2,3-Trichlorobenzene	4.40		ug/Kg	U	YES		1					}								1
1,2,3-Trichloropropane	4.40		ид/Кд	U	YES	.,	i I		·						1	 	1			1
1,2,4-Trichlorobenzene	4.40		ug/Kg	U	YES	UJ	i i			· - · · · · · · · · · · · · · · · · · ·	ພ				· · · · · · · · · · · · · · · · · · ·	·····i				
1,2,4-Trimethylbenzene	4.40		ug/Kg	U	YES	UJ		 ا			UJ .		i							
1,2-Dibromo-3-chloropropane	26.4		ug/Kg	U	YES		i i						i		i		i			
1,2-Dibromoelhane	4.40		ug/Kg	V	YES		i i		·····				l 1	<u>`</u>	i		······			
1,2-Dichlorobenzene	4.40		ug/Kg	U	YES		i	 	ا					·i		······	·····		! 	
														!						!

Project Number and Name:

11-032E - 11-032E Carroll Agent Orange

Library Used: CampCarroll

Report Dale: 9/6/2011 10:38

Page 93 of 182

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

Client Sample ID: E11-150-S1 Sample Date: 07/18/2011

Lab Sample ID: 31101915016

Lab Report Batch: 31101915

Analysis Type: RES

Lab ID: SGSW

Sample Matrix: SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quai	Rep Res	Overail Quai*	Temp	нт	МВ	LCS	MS	Łab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	IC	ICV	CCV
Analysis Method : 8260B					Diluti						*::									
1,2-Dichloroethane	4.40		ug/Kg	U	YES						İ		1		1				1	
1,2-Dichloropropane	4.40		ug/Kg	U	YES				1				1						I	
1,3,5-Trimethylbenzene	4.40		ug/Kg	U	YES				1		!	·······			1		1		1	1
1,3-Dichlorobenzene	4.40		ид/Кд	U	YES		· · · · · · i						1		Ī					1
1,3-Dichloropropane	4.40		ug/Kg	ម	YES		· · · · · · · · · · · · · · · · · · ·					i		i	1		1		1	
1,4-Dichlorobenzene	4,40		ug/Kg	U	YES	i			[l		[1	[
2,2-Dichloropropane	4.40		ug/Kg	U	YES				1				1		İ		[]		i	
2-Bulanone	3.50		ид/Кд	J	YES	J				`. , , 	J				1		1		i	i
2-Chiorotoluene	4.40	j	ид/Кд	U	YES		·····		i						i		1		1	i
2-Hexanone	11.0		ug/Kg	U	YES		·····i					· · · · · · · · · · · · · · · · · · ·			1		Ì		1	1
4-Chlorotoluene	4.40		ug/Kg	U	YES		i		 						1		i i]	i
4-isopropyitoluene	4.40		ug/Kg	U	YES		i		i i					: 	i i		i		1	: [
4-Methyl-2-pentanone	11.0		ug/Kg	U	YES	i	·····i		i i						i		i		i i	i
Acetone	14.8		ug/Kg	J	YES	ا ل			· · · · · · · · · · · · · · · · · · ·	ا ل	J		i		i) 		/ 	 I
Benzene	4.40		ug/Kg	U	YES	i									 					1
Bromobenzene	4.40		ug/Kg	U	YES		i								i i					
Bromochloromelhane	4.40		ug/Kg	υ	YES	· · · · · · · · · · · · · · · · · · ·	i								i		i			
Bromodichloromethane	4.40		ид/Кд	U	YES	1									1					
Bromoform	4.40		ug/Kg	υ	YES :	1							 		l i					
Bromomelhane	4.40		ug/Kg	U	YES		i	,	 I						i i		1			
Carbon disulfide	4.40	1	ug/Kg	U	YES	1			······································							i				
Carbon letrachloride	4.40		ug/Kg	υ	YES	1					1	· · · · · · · · · · · · · · · · · · ·				i				
Chlorobenzene	4.40	1	ug/Kg	υ	YES							I				· · · · · · · · · · · · · · · · · · ·			/i	
Chloroelbane	4 40		ug/Kg	0	YES		i		········		i	·····i				· · · · · · · · · · · · · · · · · · ·	·i		i	
Chloroform	4.40		ид/Кд	U	YES		i) 1	······i	· · · · · · · · · · · · · · · · · · ·		· · · · · · i	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	·····i			· · · · · · i	
Chloromethane	4.40		ug/Kg	U	YES	········:	·····i	· · · · · · · · · · · · · · · · · · ·	······	· · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·				: 1				

ADR 8.2

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

Library Used: CampCarroll

Report Date: 9/6/2011 10:38

Page 94 of 182

^{*} 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

Client Sample ID : E11-150-S1

Lab Report Batch: 31101915

Analysis Type: RES

Lab ID: SGSW

Sample Matrix: SO

Sample Date : 07/18/2011 Lab Sample ID: 31101915016

Reviewed By / Date:

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overali Qual*	Тетр	нт	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CCV
Analysis Method : 8260B					Dilutio	n: 1														
cis-1,2-Dichloroethene	4.40		ug/Kg	U	YES			l			}]		1]					1
cis-1,3-Dichloropropene	4.40		ug/Kg	U	YES		í I	l			i				1				1	
Dibromochloromethane	4.40		ug/Kg	U	YES	• • • • • • • • • • • • • • • • • • • •		i	 						1				 	1
Dibromomelhane	4.40		ug/Kg	U	YES						ļ								 	
Dichlorodifluoromethane	4.40		ug/Kg	V	YES			i							i i					1
Ethyl Benzene	4.40	:	ug/Kg	U	YES										1 1					1
Hexachlorobutadiene	4.40		ug/Kg	U	YES	ŲĴ					ียม				1 1					
Isopropylbenzene (Cumene)	4.40		ug/Kg	U	YES															
m,p-Xylene	8.81		ug/Kg	V	YES		I								[1
Methyl iodide	0.977		ug/Kg	J	YES	**														
Melhylene chloride	1.05		ug/Kg	J	YES	υ			U						j		i i			1
Naphthalene	4,40		ug/Kg	U	YES	UJ					ເນ				1					
n-Bulylbenzene	4.40		ug/Kg	U	YES	IJ					UJ									
n-Propylbenzene	4.40		ug/Kg	U	YES]		ĺ						1			
o-Xylene	4.40		ug/Kg	U ;	YES							i	}							
sec-Butylbenzene	4.40		ug/Kg	U	YES				1	1										
Styrene	4.40	:	ug/Kg	U	YES	IJ		1			UJ		I							
lert-Bulyl methyl elher (MTBE)	4.40	;	ug/Kg	U	YES :			1			1				1		1	I		
terl-Butylbenzene	4.40	-	ug/Kg	υ	YES :		1		1		Ĭ			1	1		[1
Telrachloroethene	4.40	ì	ug/Kg	U	YES		1	1	1	1			1		1	·			1	1
Toluene	4.40		ug/Kg	U	YES			1		ĺ	1]	· · · · · · · · · · · · · · · · · · ·		1		1	
rans-1,2-Dichloroethene	4.40		ug/Kg	υ	YES :	i		1		I		1	1	1			1		I	
rans-1,3-Dichloropropene	4.40	1	ug/Kg	บ	YES		1	ĺ	1]		1		1	1	i		[······i
rans-1.4-Dichloro-2-butene	22.0	1	нд/Кр	U	YES					}		ì	1					í	i	i
Frichloroethene	4.40		ug/Kg	U	YES			Ì	1				··· ···· í			ì	·····	······	·····i	
Frichtorofluoromethane	4.40	1	ug/Kg	U	YES	UJ	i	i	1	i.	UJ }	· ·····i	i	·····i		······ì	1		! I	

Project Number and Name:

11-032E - 11-032E Carroll Agent Orange

Library Used: CampCarroll

Report Date: 9/6/2011 10:38

Page 95 of 182

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

Client Sample ID: E11-150-S1

Lab Report Batch: 31101915

Sample Date: 07/18/2011

Lab Sample ID: 31101915016

Analysis Type: RES

Sample Matrix : SO

Lab ID: SGSW

A salida Nassa		Uncertainty /	Result	Lab		Overali	_					Lab		Rep	Moist		_			CV/
Analyte Name	Result	Error	Units	Qual	Res	Qual*	Temp	нт	MB	LCS	MS	Dup	Surr	Limit	Tot/Dis	QC	Tune	ŧC.	ICV	ccv
Analysis Method : 8260B Vinyl chloride	4.40	;		U	Dilut YES				1	,	1	1	,				,		,	
Analysis Method: 8270D	4.40	<u>:</u>	ug/Kg		Dilut		1		J	l	<u>!</u>	ļ			l		·	ļ	<u> </u>	.!
1,2,4-Trichlorobenzene	330	;	ид/Кд	U	YES		: 1			t			1					2		
1,2-Dichforobenzene	330	÷	ug/Kg		YES	÷	!		<u> </u>	1	ļ	<u>.</u>	1		[} 	ļ	
1,3-Dichlorobenzene	330		ug/Kg	<u>U</u>	YES	<u>.</u>	!		·	<u> </u>	<u> </u>	!	<u> </u>	ļ			‡	ļ !	ļ	.
1,4-Dichlorobenzene	330				YES				! 	ļ	i	ļ	ļ				ļ		<u> </u>	ļ
2,4,5-Trichlorophenol	330		ug/Kg ug/Kg	<u>.</u>	YES				!	ļ	}	l 	<u> </u>	1	<u> </u>		ļ	i 	<u> </u>	. <u>ļ</u>
2,4,6-Trichlorophenol	330		ug/Kg ug/Kg	<u>.</u>	YES	·····			ļ		ļ	ļ	1	i ;	<u> </u>		!	·	ļ	.ļ
2,4-Dichlorophenol	330			<u>.</u>	YES					ļ	ļ				<u> </u>		ļ		ļ	. !
2,4-Dimethylphenol	330		ug/Kg	 U	YES					1	<u> </u>	ļ	<u>.</u>	ļ			ļ		<u> </u>	
2,4-Dinitrololuene	330		ug/Kg		YES					ļ	<u> </u>	ļ	!	<u> </u>	!		1		ļ	
2,6-Dinitrotoluene	330		ug/Kg	U						!	<u>.</u>	ļ	f		[ļ	ļ	<u>!</u>	ļ
2,0-Chioronaphthalene	330		ug/Kg	U	YES						<u>!</u>		ii		ļi		ļ		ļ	ļ
2-Chlorophenol			ug/Kg	U	YES	ļ	!	!							!		[<u> </u>	ļ
2-Chlorophenoi 2-Melhylnaphthalene	330		ug/Kg	Ü	YES								!		!				ļ	ļ
· · · · · · · · · · · · · · · · · · ·	330		ид/Кд	U	YES		!										ļ		ļ	ļ
2-Methylphenol	330		ug/Kg		YES	ļ <u>[</u>					<u> </u>								ļ	<u> </u>
2-Nitroaniline	330	-	ug/Kg	U	YES		!	!	!											ļ
2-Nitrophenol	330		ид/Кд	<u>u</u>	YES								ļ		!				[ļ
3 and/or 4-Methy/phenol	330		ug/Kg	U	YES															ļ
3-Năroaniline	330		ug/Kg	U	YES														ļ	ļ
4-Bromophenyl phenyl ether	330	·	ug/Kg	ប	YES			!	!				<u></u>							ļ
4-Chioro-3-methylphenol	330		ug/Kg	U	YES		[.													<u> </u>
4-Chloroaniline	330		ug/Kg	U ;	YES								!				j			ļ
I-Chlorophenyl phenyl ether	330		uq/Kq	. U :	YES		!													ļ
4-Nitroaniline	330		ид/Кд	U ;	YES		!	1	!		<u></u>					!	<u> </u>			l
4-Nitrophenol	330		ug/Kg	U	YES				!											<u> </u>
Acenaphlhene	330		ug/Kg	U	YES		- 1		1	i	4		- 1	i	1		ž.			

ADR 8.2

11-032E - 11-032E Carroll Agent Orange

Library Used: CampCarroll

Report Date: 9/6/2011 10:38

Page 96 of 182

^{*} 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

Client Sample ID : E11-150-S1 Sample Date: 07/18/2011

Lab Report Batch: 31101915

Analysis Type: RES

Lab ID: SGSW

Sample Matrix : SO

Lab Sample ID: 31101915016

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quai		Overall Qual*		нт	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	IC	ICV	CCA CA1
Analysis Method : 8270D					Dilutio	on: 1														
Acenaphthylene	330		ug/Kg	U	YES					1	1	1		!	1					Ī
Anthracene	330		ug/Kg	U	YES															
Benzo(a)anthracene	330		ug/Kg	U	YES							 			ĺ]			1
Benzo(a)pyrene	330		ug/Kg	U	YES							<i></i>							i	
Benzo(b)fluoranthene	330		ug/Kg	U	YES															1
Benzo(g,h,i)perylene	330		ug/Kg	V	YES															
Benzo(k)fluoranthene	330		ug/Kg	υ	YES														 	
Bis(2-Chloroethoxy)methane	330		ug/Kg	U	YES						.,,,,,,,,,						1			1
Bis(2-Chloroethyl)elher	330		ug/Kg	U	YES									,,,,,			1			
Bis(2-Chloroisopropyl)ether	330		ug/Kg	U	YES															i
Bis(2-Ethylhexyl)phthalate	330		ug/Kg	U	YES															i
Sulyl benzyl phthalate	330		ug/Kg	U	YES			1		l]				` 	i
Chrysene	330		ug/Kg	U	YES]									 J	1			i I
Dibenz(a,h)anthracene	330		ug/Kg	U	YES		i		· · · · · · · · · · · · · · · · · · ·											!
Dibenzofuran	330		ug/Kg	U	YES		<u>:</u> 	l								i	i			:
Diethyl phthalate	330		ug/Kg	U	YES			i				 					·····			
Dimethyl phthalate	330		ug/Kg	U	YES	· · · · · · · · · · · · · · · · · · ·	i				i	· · · · · · · · ·	. ,		1		1			i
Di-n-butyl phthalate	330		ug/Kg	U	YES		1				`	\ I			1	: 	1	· · · · · · · · ·		1
Dì-n-octyl phthalate	330	····	ug/Kg	υ	YES		···········					······i								i
Fluoranthene	330		ug/Kg	U	YES		i	í	i	: {	i				·····i	·······i		ا ا		i
Fluorene	330	······	ug/Kg	U	YES	· · · · · · · · · · · · · · · · · · ·	······	······	······i		 	i			i	·····i		ن		I
Hexachlorobenzene	330	·····	ug/Kg	Ų	YES	· · · · · · · · i	····::	i	······	: 		1		·····i	· · · · · · · · · · · · · · · · · · ·	·····i		······'		1
Hexachiorobutadiene	330	···· ·· ·· ·· ·	ug/Kg	υ	YES	i	······	· · · · · · · · · · · · · · · · · · ·		! 								i		
Hexachlorocyclopentadiene	330	·····	ug/Kg	TI İ	YES	<u>!</u>	<u>:</u> I	'- 	·	! !	·······	·······		<u>:</u> 	i- I	! 1	<u>:</u>			 I
Hexachloroethane	330		ug/Kg	U	YES	 أ	······!	· · · · · · · · · · · · · · · · · · ·								·······i		'' ا		
ndeno(1,2,3-cd)pyrene	330	······	ug/Kg	U	YES															

ADR 8.2

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

Library Used: CampCarroll

Report Date: 9/6/2011 10:38

Page 97 of 182

^{*} 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

Client Sample ID: E11-150-S1

Lab Report Batch: 31101915

Lab ID: SGSW

Sample Date: 07/18/2011

Analysis Type: RES

Sample Matrix: SO

Lab Sample ID: 31101915016

Reviewed By / Date :							App	rovec	By /	Date :										
Analyte Name	Resutt	Uncertainty / Error	Result Units	i.ah Qual	Rep Res	Overall Qual*	Temp	нт	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CCV
Analysis Method : 8270D					Diluti	on: 1														
Isophorone	330		ug/Kg	U	YES	:	1							ì			1 1			
Naphlhalene	330		ид/Кд	U	YES	:				l	 		1	 	l					1
Nitrobenzene	330	:	ug/Kg	U	YES		i			1	1	 	1	 			1		i	1
n-Nitrosodi-n-propylamine	330		ug/Kg	U	YES		1			1		······								1
Pentachlorophenol	330		ug/Kg	U	YES	UJ	í .			ชม			 	 	i i		i i			i
Phenanthrene	330		ug/Kg	U	YES							:	ì		ii	•	i			1
Phenol	330		ug/Kg	U	YES								` 	(i i			1
Pyrene	330		ug/Kg	U	YES							: {	: 	: }						i

Project Number and Name:

11-032E - 11-032E Carroll Agent Orange

Library Used:

CampCarroll

ADR 8.2

Report Date: 9/6/2011 10:38

Page 98 of 182

* 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

Client Sample ID : E11-150-S2

Lab Report Batch: 31101915

Sample Date: 07/18/2011 Lab Sample ID: 31101915017 Analysis Type: RES

Lab ID : SGSW

Sample Matrix : SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Resuit Units	Lab Qual	Rep Res	Overall Quat*	Temp	ΗT	MB	LCS	MS	Lab Đup	Surr		Moist Tot/Dis		Yune	IC	ICV	CCV
Analysis Method : 6010C					Dilutio	on; 1								,,				•••••		
Arsenic	29.2		mg/kg		YES				!	!			i	1] {]
Barium	82.6		mg/kg		YES	J] [i 	 J			 	1				;	i
Cadmium	1.13		mg/kg		YES	U	ı		ឋ	1]	ļ	1		l i		1		 	i
Chromium	3.26		mg/kg		YES	u		*	į u	1	 	}	1		i				 	i
Lead	41.2	;	mg/kg		YES	J					J	J			i i		ii			: I
Selenium	1.90		mg/kg	U	YES		i				1			: 	i i		· · · · · · · · · · · · · · · · · · ·		1	: <i></i>
Silver	0.289		mg/kg	J	YES	U			U	i]		: 	i					i
Analysis Method : 7471B					Dilutio	n: 1			`	:		`	`							
Mercury	0.00648		mg/kg	J	YES	1	,					i			1 1				1	1
Analysis Method : 8081					Dilutio	n:1														
4,4'-DDD	9.85		ug/Kg	U	YES	1	Ï		1					***************************************			ĺ			<i></i>
4,4'-DDD	9.85	;	ug/Kg	ម	YES :	1							}	.,,,,,,,,	Į Į					ĺ
4,4'-DDE	1,30		ug/Kg	J	YES	Ì	1								l í		}			
4,45-DDE	1.30	;	ug/Kg	J	YES		[J							
4,4'-DDT	4.18	Í	ug/Kg	j	YES		1								1		1		· · · · · · · ·	
4,4'-ÐDT	4.18		ug/Kg	J	YES		I	1				1					1		! 	
Aldrin	9.85		ug/Kg	U	YES	1	1]	}	1	1								
Aldrin	9.85		ug/Kg	U	YES	1							1			I		ء	1	
alpha-BHC	9.85		ug/Kg	υ	YES			1	Ì			1	ii		1				·····i	
alpha-BHC	9.85		ug/Kg	U	YES			1	Ī]	1	1				1		· · · · · · · · ·	i	******
aipha-Chlordane	9.85		ug/Kg	U	YES		· · · · · · · · · · · · · · · · · · ·	1			1					i		······	i	
alpha-Chlordane	9.85		ug/Kg	U	YES		ĺ	1	1			Ì			1	:i	i	ا	·····i	
beta-BHC	9.85		ug/Kg	บ	YES			1	1			i		·i		1	1	<i>:</i> [·····i	
beta-BHC	9.85		ug/Kg	U	YES :		Ï		i	1		i	i	i		<u>:</u> I		· · · · · · · · · · · · · · · · · · ·	: 	• • • • • • • • • • • • • • • • • • • •
Chlordane	32.8		ug/Kg	U	YES	i. 	····· ì	1		i. 	<u>i</u>	:i		···-···		·····i	: ,		 	••••
Chlordane	32.8		ug/Kg	U	YES	······		<u>-</u> -	i	·i	·i	·····i		···				'ا ا	! 	
della-BHC	9.85	····	ug/Kg	U	YES		i	···	i	·i	·i	···i		·····i						

Project Number and Name:

ADR 8.2

11-032E - 11-032E Carroll Agent Orange

Library Used: CampCarroll

Report Date: 9/6/2011 10:38

Page 99 of 182

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

Client Sample ID : E11-150-S2 Sample Date : 07/18/2011

Lab Report Batch: 31101915

Analysis Type: RES

Lab ID: SGSW

Sample Matrix: SO

Lab Sample ID: 31101915017

Reviewed By / Date :

Approved By / Date:

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual		Overali Qual*		нт	MB	LCS	MS	Lab Dup	Surr		Moist Tot/Dis		Tune	IC	fCV	CCA
Analysis Method : 8081					Diluti	on: 1	*********								**** - *** *** * * * * * * * * * * * *			*		
delta-BHC	9.85		ug/Kg	U	YES	:			<u></u>	1		i		1	1				1	1
Dieldrin	9.85		ug/Kg	υ	YES	:				i			· · · · · · · · · · · · · · · · · · ·		1		i i		j	1
Dieldrin	9.85		ug/Kg	บ	YES	:					1								1	1
Endosulfan I	9.85		ug/Kg	U	YES	: 1			ĺ						i i				1	l
Endosulfan i	9.85		ид/Кд	U	YES						j								1	
Endosulfan II	9.85		ug/Kg	U	YES														[
Endosulfan II	9.85		ug/Kg	U	YES]									[i					1
Endosulfan sulfate	9.85	i	ug/Kg	U	YES			i											i	1
Endosulfan sulfate	9.85	:	ug/Kg	U	YES	1	1								i i				1	
Endrin	9.85		ug/Kg	U	YES		1	I							j				l	1
Endrin	9.85		ug/Kg	U	YES													*	1]
Endrin aldehyde	9.85		ug/Kg	υ	YES	1	1													1
Endrin aldehyde	9.85		ug/Kg	u	YES		Ì]]					1		1	1
Endrin kelane	9.85		ug/Kg	υ	YES]		1								1
Endrin ketone	9.85		ug/Kg	U	YES	1	1				1	1			([
gamma-BHC (Lindane)	9.85		ug/Kg	U	YES				1			1]		l					
gamma-BHC (Lindane)	9.85	i	ug/Kg	U	YES		I	1	١		I	1	1			1	1			1
gamma-Chlordane	9.85		ug/Kg	U	YES	1		1		1	1	i	· · · · · · · · · · · · · · · · · · ·			1				
gamma-Chlordane	9.85	į	ug/Kg	U	YES		1	1	1		I			<u> </u>						
Heptachlor	9.85		ug/Kg	U	YES		i	1	· · · · · · · · · · · · · · · · · · ·			1	1	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · ·				
Heptachlor	9.85		ug/Kg	U	YES	1		1	1	1	i	Ì	1	· · · · · · · · · · · · · · · · · · ·		1	1			
Heptachlor epoxide	9.85		ug/Kg	ย	YES	1	1	1	1	i		1		· · · · · · · · · · · · · · · · · · ·		1	1			
deptachlor epoxide	9.85		ug/Kg	U	YES		1	i	1				· · · · · · · · · · · · · · · · · · ·]		ı			1	
Methoxychior	9.05	į	ug/Kg	U ;	YE3		·····		1			1	1	1						
Methoxychlor	9.85		ug/Kg	U	YES	1		1	1			Î	· · · · · ·	· · · · · · · · · · · · · · · · · · ·		ì				
Toxaphene	32.8		ug/Kg	U	YES :		1	1	i			1			· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·				

Project Number and Name:

ADR 8.2

11-032E - 11-032E Carroll Agent Orange

Library Used: CampCarroll

Report Date: 9/6/2011 10:38

Page 100 of 182

^{*} 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

Client Sample ID: E11-150-S2

Lab Report Batch: 31101915

Lab ID: SGSW

Sample Date: 07/18/2011 Lab Sample ID: 31101915017 Analysis Type: RES

Sample Matrix: SO

Reviewed By / Date :

Approved By / Date :

Result	Uncertainty i Error	Result Units	Lab Quai				нт	MB	LCS	MS	Lab Dup	Surr	Rep Limit			Tune	IC	ICV	CCV
				Dilutio	n:1							***************************************							
32.8		ug/Kg	U	YES				1	1		i	ī	<u>_</u>	li		1	l .		
				Dilutio	on: 1														
0.0167	i	mg/kg	υ	YES						ĺ	S			1 1		1			
0.0167		mg/kg	U	YES				1				1		1				[i
0.0167		mg/kg	V	YES	IJ	· · · · · ·		1		UJ]	1		1					i
0.0167		mg/kg	Ų	YES	υJ				1	UJ	}	1		i		[: 	i
0.0167		mg/kg	U	YES	UJ				f	UJ		i		i					
0.0167		mg/kg	U	YES	UJ	ı				ŲJ	i	Ì						: 	i
0.0167		mg/kg	U	YES		I					:	i		i				' 	i
0.0167		mg/kg	U	YES								1		i				`	'
0.0167		mg/kg	U	YES										i					
0.0167	1	mg/kg	U	YES		i						` 		i i					!
	** ***********			Dilutio	n: 1			`							'				
4.13	İ	ug/Kg	υ;	YES	i					1				1		1		***************************************	
4.13	j	ug/Kg	U	YES										i					
4.13	į	ug/Kg	U	YES		1		 	1			i		1		1			i
4.13		ug/Kg	υ	YES :)	1]					1		1]
4,13		ug/Kg	U	YES	·i			 	······				· · · · · · · · · · · · · · · · · · ·		· • • • • • • • • • • • • • • • • • • •	· ·			
4.13		ug/Kg	U	YES	1	i		· · · · · · · · · · · · · · · · · · ·				}				<u>-</u>	· 		· · · · · · · · · · · · · · · · · · ·
4.13	······	ug/Kg	U	YES			1	· · · · · · · · · · · · · · · · · · ·	······	······		·i	: 						
4.13		ug/Kg	U	YES	i					·······					<u>`</u>	··	·i		
4.13		ug/Kg	U	YES					i			·····	i	i-	:i	-			ii
4.13	1	ug/Kg	U	YES	IJ		ì	· · · · · · · · · · · · · · · · · · ·		UJ			······	i-	·	 -	······		
4.13		ид/Ко	U	YES	UJ		·····i	·i	<u>/</u>	IJ	\ 		·i		·····¦		······	! 	·i
24.8			Ų	YES		······i		<u>'</u>	<u>:</u> . j	·	 		·!					·!	
4.13		ug/Kg	U	YES	····-i	i.	ì	<i>:</i>			·i		·i		! !		i		
4.13	****	ug/Kg	u :	YES	<u>†</u>	··········					1								
	Result 32.8 0.0167 0.0167 0.0167 0.0167 0.0167 0.0167 0.0167 4.13 4.13 4.13 4.13 4.13 4.13 4.13 4.13	Result Error 32.8 0.0167 0.0167 0.0167 0.0167 0.0167 0.0167 0.0167 0.0167 0.0167 0.0167 4.13 4.13 4.13 4.13 4.13 4.13 4.13 4.13	Result Error Units 32.8 ug/Kg 0.0167 mg/kg 0.0167 mg/kg 0.0167 mg/kg 0.0167 mg/kg 0.0167 mg/kg 0.0167 mg/kg 0.0167 mg/kg 0.0167 mg/kg 0.0167 mg/kg 0.0167 mg/kg 4.13 ug/Kg 4.13 ug/Kg 4.13 ug/Kg 4.13 ug/Kg 4.13 ug/Kg 4.13 ug/Kg 4.13 ug/Kg 4.13 ug/Kg 4.13 ug/Kg 4.13 ug/Kg 4.13 ug/Kg 4.13 ug/Kg 4.13 ug/Kg 4.13 ug/Kg 4.13 ug/Kg 4.13 ug/Kg 4.13 ug/Kg	Result Error Units Qual	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result Error Units Qual Res Qual Temp HT MB LCS MS Dup Surr Limit TotDis QC	Result Error Units Qual Res Qual Temp HT MB LCS MS Dup Surr Units TotiDis QC Tune	Result Error Units Qual Res Qual Temp HT MB LCS MS Dup Surr Limit Total Disc QC Tune IC	Result Error Units Qual Res Qual Temp HT MB LCS MS Dup Sur Limit ToUDIS QC Tune IC ICV

Project Number and Name:

ADR 8.2

11-032E - 11-032E Carroll Agent Orange

Library Used: CampCarroll

Report Date: 9/6/2011 10:38

Page 101 of 182

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

Client Sample ID : E11-150-S2

Lab Report Batch: 31101915

Analysis Type: RES

Lab ID: SGSW

Sample Date: 07/18/2011 Lab Sample ID: 31101915017

Sample Matrix : SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual		Overali Qual*		HT	МВ	LCS	MS	Lab Dup	Surr		Moist Tot/Dis		Тиле	IC	ICV	CCA
Analysis Method : 8260B					Dilutio	on: 1						······	************	***************************************		^A				
1,2-Dichloroethane	4.13		ug/Kg	U	YES			1			i		1	1						f
1,2-Dichloropropane	4.13		ug/Kg	U	YES			1	[1				1		[1
1,3,5-Trimelhyfbenzene	4.13		ug/Kg	U	YES				1	1	}]			1					1
1,3-Dichlorobenzene	4.13		ug/Kg	U	YES							·····							1	
1,3-Dichloropropane	4.13		ug/Kg	U	YES		i i		Ì						l i					í
1,4-Dichlorobenzene	4.13		ug/Kg	U	YES										i					
2,2-Dichloropropane	4,13		ug/Kg	U	YES		i I						i							
2-Butanone	3.72		ug/Kg	J	YES	J					J		J		1					
2-Chlorotoluene	4.13		ug/Kg	U	YES		1		1						1		1		1	
2-Hexanone	10,3		ug/Kg	U	YES				i i			·			i		1		1	
I-Chlorotoluene	4.13		ug/Kg	U	YES				i i						1		l		i	
l-Isopropyllaluene	4.13		ug/Kg	Ų	YES				1					· · · · · · · · · · · · · · · · · · ·					i	
-Methyl-2-pentanone	10.3		ug/Kg	U	YES				1 1							,,				
Acetone	12.5		ug/Kg	J	YES	j	1			J	ا ا		J		1				1	
Benzene	4.13		ug/Kg	υ	YES]]											
Bromobenzene	4.13		ug/Kg	U	YES]									1	
Bromochloromethane	4.13		ug/Kg	U	YES															
Bromodichloromethane	4.13		ug/Kg	U	YES				1						i		{		1	
komoform	4.13	1	ug/Kg	U	YES							ĺ					1			
Bromomelhane	4.13		ид/Кд	U	YES		· · · · · · · i											.,		
arbon disulfide	4.13		ид/Кд	U	YES	· · · · · · · · · · · · · · · · · · ·			1			i						· · · · · · · · · · · · · · · · · · ·		
arbon tetrachloride	4.13		ug/Kg	U	YES		· · · · · · i			i										
hlorobenzene	4,13		ug/Kg	υ	YES		·····i			i	i	1	i					······	· · · · · · · · ·	
hloroethane	4.13		ug/Kg	U	YES	i	······				·····i	·····i						·····i		
Chloroform	4.13		ug/Kg	U	YES				ii	······		······ì	i					······i	i i	
Chloromethane	4.13		ug/Kg	U i	YES						i			· · · · · · · i				·····i	· · · · · · i	

Project Number and Name:

11-032E - 11-032E Carroll Agent Orange

Library Used:

ADR 8.2

Report Date: 9/6/2011 10:38

Page 102 of 182

^{*} 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

Client Sample ID: E11-150-S2 Sample Date: 07/18/2011

Lab Report Batch: 31101915

Analysis Type: RES

Lab ID : SGSW

Sample Matrix : SO

Lab Sample ID: 31101915017

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*		нт	МВ	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CCV
Analysis Method : 8260B	/				Dilutio	эл: 1														
cis-1,2-Dichloroethene	4.13	;	ug/Kg	U	YES				· · · · ·					1	[[
cis-1,3-Dichloropropene	4,13		ug/Kg	υ	YES							1								1
Dibromochloromelhane	4.13		ug/Kg	U	YES		į į					[1				1	
Dibromomelhane	4.13		ug/Kg	U	YES							i			l		1		Ϊ	1
Dichlorodifluoromethane	4.13		ug/Kg	U	YES														1	
Ethyl Benzene	4.13		ug/Kg	U	YES												ĺ		1	1
Hexachlorobutadiene	4.13		ug/Kg	υ	YES	IJ					បរ				[[ĺ	.,,,,,,,		1
Isopropylbenzene (Cumene)	4.13		ug/Kg	U	YES						1									F
m,p-Xylene	8.27		ug/Kg	U	YES															1
Methyl iodide	4.13		ug/Kg	U	YES										ļ				ĺ	ĺ
Methylene chloride	1.40		ид/Кд	J	YES	IJ			υ				J		1		l			ĺ
Naphthalene	4.13		ug/Kg	U	YES	IJ					ເນ				İ					í
n-Butylbenzene	4.13		ug/Kg	υ	YES	IJ	1			f	UJ									
n-Propylbenzene	4.13	į	ug/Kg	U	YES :			ĺ			į								1	
o-Xylene	4.13		ug/Kg	U	YES	1	1	1	1	ļ	1	I								
sec-Bulylbenzene	4.13	-	ug/Kg	U	YES				1	1										
Styrene	4.13	ì	ug/Kg	U	YES	LU	1	1		1	UJ					Ī				
tert-Bulyl methyl ether (MTBE)	4.13		ug/Kg	U	YES	1	1	1			1					1				
tert-Butylbenzene	4.13		ug/Kg	U	YES	1			1		1	1			1		1			
Tetrachioroethene	4.13	1	ug/Kg	υ	YES		1		1	j		1	1				1			
Toluene	4.13		ug/Kg	U	YES		1	1	1				I			<u>`</u>				
trans-1,2-Dichloroethene	4.13		ug/Kg	U	YES	1		1	1	I	1					1	i			
rans-1,3-Dichtoropropene	4.13	:	ug/Kg	U	YES						1	·····	1			1	1			
trans-1,4-Dichloro-2-butene	20.7		ug/Kg	U	YES		<u>-</u> i	<u>.</u>	ì			·····i	1	i		1	1		i	
Trichloroethene	4.13		ug/Kg	U	YES			Î	1	1	1	······ì		·····i			·····	i		
Trichlarofluoromethane	4.13		ug/Kg	U	YES :	ונו		1	· · · · · · · · · · · · · · · · · · ·		UJ			i		· · · · · · · · · · · · · · · · · · ·	·····			

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

Report Date: 9/6/2011 10:38

Library Used: CampCarroll

ADR 8.2

* 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

Page 103 of 182

5498

Client Sample ID : E11-150-S2

Lab Report Batch: 31101915

Sample Date : 07/18/2011 Lab Sample ID: 31101915017 Analysis Type: RES

Lab ID: SGSW

Sample Matrix: SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual		Overali Qual*		нт	МВ	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	IC	ICV	CCA
Analysis Method : 8260B					Diluti	on: 1														
Vinyl chloride	4.13		ug/Kg	U	YES	:	i		1				1	ļ	1 :		1 1			Ī
Analysis Method : 8270D					Diluti	on: 1														
1,2,4-Trichlorobenzene	334	:	ug/Kg	U	YES	:	i	1	[1	-		1	1	[1		I I			
1,2-Dichlorobenzene	334		ug/Kg	U	YES				1		1							,]	1
1,3-Dichlorobenzene	334		ug/Kg	υ	YES				j	[1				[i			1
1,4-Dichlorobenzene	334		ug/Kg	U	YES					1							1		[
2,4,5-Trichterophenel	334		ug/Kg	U	YES										l i		1 1			1
2,4,6-Trichlorophenol	334		ug/Kg	U	YES				 	1				}	l i		1		1	1
2,4-Dichlorophenol	334		ug/Kg	Ų	YES						1			}	i		l		1	1
2,4-Dimethylphenol	334		ug/Kg	υ	YES										,		l		1	
2,4-Dinitrotoluene	334		ug/Kg	U	YES										i		1		l	1
2,6-Dinitrotoluene	334		ug/Kg	U	YES												1		1	1
2-Chloronaphthalene	334		ид/Кд	υ	YES										-		1		1	
2-Chlorophenol	334		ug/Kg	U	YES		1										1		1	1
2-Methylnaphthalene	334		ug/Kg	υ	YES						1								1	1
2-Methylphenol	334		ug/Kg	ប	YES]	I										1			
2-Nitroaniline	334		ug/Kg	U	YES		1	1									1			
2-Nitrophenol	334		ug/Kg	U	YES			1												ĺ
3 and/or 4-Methylphenol	334		ug/Kg	U	YES	 [i	\ 												
3-Nitroaniline	334		ид/Кд	U	YES							1							l	1
4-Bromophenyl phenyl ether	334		ug/Kg	U	YES		i	Ì				· · · · · · · · · · · · · · · · · · ·			i	1	1			1
f-Chloro-3-methylphenol	334		ug/Kg	U	YES			1			· · · · · · · · ·	· · · · · · · ·	i		1		1			1
4-Chloroaniline	334		ug/Kg	Ų	YES			ì			i	i							i	i
4-Chlomphenyl phenyl ether	334		ug/Kg	U	YES		i	·····i	·i	i	i	i					· · · · · · · · · · · · · · · · · · ·		 	i
I-Nitroaniline	334		ug/Kg	U	YES	í	<u>.</u> I	: 	·······'	<i>:</i> 	······	i	· · · · · · · · · · · · · · · · · · ·		i					:
I-Nitrophenol	334		ug/Kg	U	YES	i	<u>'</u>	 1			···'	······i		· · · · · · · · · · · · · · · · · · ·	i				' 	i I
Acenaohlhene	334		ug/Kg	u i	YES			······				······;			······				<i></i>	: I

Project Number and Name:

ADR 8.2

11-032E - 11-032E Carroll Agent Orange

Library Used: CampCarroli

Report Date: 9/6/2011 10:38

Page 104 of 182

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

Client Sample ID: E11-150-S2

Lab Report Batch: 31101915

Lab ID: SGSW

Sample Date: 07/18/2011 Lab Sample ID: 31101915017 Analysis Type: RES

Sample Matrix: SO

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual		Overall Qual*	Temp	нт	MB	LCS	MS	Lab Dup	Surr	Rep	Moist Tot/Dis		Tune	IC	ICV	CCV
Analysis Method : 8270D					Dilutie									Luant	100010		······		104	
Acenaphthylene	334		ид/Кд	U	YES	: 1				1		;	1	1	1		1		1	
Anthracene	334		ug/Kg	U	YES				' 	/ 	: !	:	` I		!: 				! !	1
Benzo(a)anthracene	334		ug/Kg	U	YES		: ا		`	: 	 	¦ 		:	!i				! 	<u> </u>
Benzo(a)pyrene	334		ug/Kg	U	YES	·i				i		¦	¦	! }			1		! 	
Benzo(b)fluoranthene	334		ug/Kg	U	YES		·······i			: 		 [: 	! 			!		¦	1
Benzo(g,h,i)perylene	334		ug/Kg	U	YES	· · · · · · · · · · · · · · · · · · ·	·i			!	í I	: 	: [! : 		!!		! !	1 1
Benzo(k)fluoranthene	334		ug/Kg	U	YES		·····i			: 	: 	 			!! 		1 /		: !	¦
Bis(2-Chloroethoxy)methane	334	***************************************	ug/Kg	U	YES		·: I	·······		! 	 				:: 	•••••	l1 		: I	!
Bis(2-Chloroethyf)ether	334		ug/Kg	υ	YES		·!	'' ا		: 	·				!1 	•••••	!		 I	!
Bis(2-Chloroisopropyl)ether	334		ug/Kg	U	YES		·····i			 					! 	•••••	l			1
Bis(2-Ethylhexyl)phthalate	334		ug/Kg	U	YES		i	············								••••••	i		'! [!
Butyl benzyl phthalate	334		ug/Kg	U	YES						· · · · · · · · · · · · · · · · · · ·									! [
Chrysene	334		ug/Kg	U	YES	i	· · · · · · · · · · · · · · · · · · ·	·]			 		:: 		<u> </u>		i			!
Dibenz(a,h)anthracene	334		ug/Kg	U	YES		i.	\ 			··	· · · · · · · · · · · · · · · · · · ·			<u> </u> 		······		! 	!
Dibenzofuran	334		ug/Kg	U	YES	1	i	······						! 	!				! 	i
Dielhyl phthalate	334		ид/Кд	U	YES	······i	/		ا				···········						·	!
Dimethyl phlhalate	334		ug/Kg	U	YES	1		······`			·			: ا		······				1
Di-n-bulyl phthalate	334	ì	ug/Kg	U	YES		i			········	۰۰۰۰۰۰۰۱	······		!						! !
Di-n-octyl phthatate	334		ug/Kg	U	YES	· · · · · · · · · · · · · · · · · · ·	······	······			1	······i		·······!				! 1	······	 I
luoranthene	334	· · · · · · · · · · · · · · · · · · ·	ug/Kg	U	YES		· ·······			·······'	: ا	i		····i	·····i			·····.'	·······!	:
luorene	334		ug/Kg	υ	YES		i			:i				! !	<u>i</u>	! 	·····		······::	
dexachlorobenzene	334		ug/Kg	U	YES	· · · · · · · · · · · · · · · · · · ·	i.	Î				i	· · · · · · · · · · · · · · · · · · ·	·····i	i		ئىسىد. ا	······		· · · · · · · · · · · · · · · · · · ·
lexachlorobuladiene	334	1	ug/Kg	U	YES)		<u>`</u>	······i		····	<u>'</u>	!						!	
łexachlorocyclopentadiene	334		ug/Kg	υ	YES		ì	·····		i	<u>:</u> 	: !		······!	 i-	1	······		!! !	
fexachforoethane	334		ug/Kg	U	YES :	·····i	······ <u></u> i.	·····				·····		······!	i			······	! F	
ndeno(1,2,3-cd)pyrene	334	······	ug/Kg	U	YES:					·····										

Project Number and Name:

11-032E - 11-032E Carroll Agent Orange

Library Used:

CampCarroll

ADR 8.2

Report Date: 9/6/2011 10:38

Page 105 of 182

^{*} 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