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Client Sample ID : E11-137-S2 Lab Report Batch : 31101889 Lab ID : SGSW Sample Date : 07/16/2011 Analysis Type: RES Sample Matrix : SO Lab Sample ID: 31101889012 Reviewed By / Date : Approved By / Date : Uncertainty / Error Result Units Lab Qual Rep Res Overall Qual* Rep Moist Limit Tot/Dis Lab Dup CV / CCV Field QC Analyte Name Result HT ΜВ LCS MS Surr ıс ICV Temp Tune Analysis Method : 8270D Dilution: 1 352 YES Benzo(g,h,i)perylene ug/Kg U 352 Benzo(k)fluoran(hene ug/Kg U YES L

Bis(2-Chloroethoxy)methane	352	ug/Kg	U	YES		1	1	1	1	1	1	1	1	1			1	1	
Bis(2-Chloroethyl)ether	352	ug/Kg	Ų	YES		1	1	1	1		1		}			1			1
Bis(2-Chloroisopropyl)ether	352	ug/Kg	υ	YES	-				1		1	1			1	1		1	1
Bis(2-Ethylhexyl)phthalate	352	ug/Kg	U	YES	-		1	1	1	1		1		1	1		1	1	1
Butyt benzyl phihalate	352	ug/Kg	U	YES		1	1	1	1	Į		1					;	1	
Chrysene	352	ug/Kg	U	YES			1]	(1	1							1
Dibenz(a,h)anthracene	352	ug/Kg	U	YES					1			}	}			1			1
Dibenzofuran	352	ug/Kg	U	YES			[1	1		1	1			1				i
Diethyl phthalate	352	ug/Kg	U	YES		Į	1		1	1	1	1				1	1	1	1
Dimethyl phthalate	352	ug/Kg	U	YES		[1		1		1		}			1			1
Di-n-butyl phthalate	352	ug/Kg	U	YES	:		1	1		1		1		1	Į				1
Di-n-octyl phlhalate	352	ug/Kg	U	YES		1	1	1		1	}	1	1	1			1		[
Fluoranthene	352	ug/Kg	υ	YES			1	1	1		1					1			1
Fluorene	352	ug/Kg	U	YES					1			1				1			1
Hexachlorobenzene	352	ug/Kg	U	YES		1	1	1	1	1	1	1				1			l
Hexachlorobuladiene	352	ug/Kg	U	YES		}	1	1	1	1	1	1				1	1		1
Hexachlorocyclopentadiene	352	ug/Kg	υ	YES		í.		1	1	1	1					1			1
l lexachioreethane	362	ug/Kg	U	YEG		1	1	1	1			1				1			1
Indeno(1,2,9-cd)pyrene	352	ug/l(g	υ	YEB			1	1	1	1	1								i
Isophorone	352	ug/Kg	υ	YES		1	1	I		Ì	1								
Naphihalene	352	ug/Kg	U	YES				[1	1			l				l	I	1
Nitrobenzene	352	ug/Kg	U	YES				1	1				ا						1
n-Nitrosodi-n-propylamine	352	ug/Kg	υ	YES		ļ	1	1		1	1			1					
Penlachiorophenol	362	ид/Кд	U	YEE	LU		1	1	UJ		1	[]			/		1	1	

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

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and yes manne			•				1. a. m. b.								100010	**	(4)(4			~~•
Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	Нĩ	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV /
Reviewed By / Date :							Арр	roved	I By /	Date :										
Lab Sample ID: 3110188	39012																			
Sample Date : 07/16/20	011			An	alysi	s Type	RES							S	Sample	Mati	rix:SC)		
Client Sample ID : E11-137	7-S2		L	ab Re	eport	Batch	: 3110	1889								Lab	ID : SO	SSW		

Allaryce Ivanie	Neson	Circl	Onita	waan	110.0	squar	remp		inco	1.00	mo	Dab	Sun	L.41111	1001/15	w.c	(u)le	 10.4	000
Analysis Method : 8270D					Dilutio	on: 1												 	
Phenanlhrene	352		ug/Kg	υ	YES		I	l											
Phenol	352		ug/Kg	υ	YES							1			1	1			1
Pyrene	352	i	ug/Kg	U	YES								[1		1	

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Overall result qualifier reflects summary	ation of qualifiers added during automated data review and any qualifiers added manually for cate	pries not assessed by automated data	review	

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Client Sample ID : E11-137-S3 Lab Report Batch : 31101889 Lab ID : SGSW Sample Date : 07/16/2011 Analysis Type: RES Sample Matrix : SO Lab Sample ID: 31101889013 Reviewed By / Date : Approved By / Date : Uncertainty / Error Result Units Lab Quai Rep Res Overall Qual* Lab Dup Rep Moist Limit Tot/Dis CV/ CCV Field QC Analyte Name LCS мs Surr ICV Result Temp ΗТ ΜВ Tune ſC Analysis Method : 6010C Dilution: 1 2.20 YES Arsenic mg/kg ...J JJJ | YES 95.9 Dari

Barium	95.9	mg/kg		YES			1	1	1		1		1			1
Cadmlum	0.754	mg/kg		YES U	I	U		}						Į		1
Chromium	4.08	mg/kg		YES J				J	<u> </u>				1		1	1
Lead	8.92	mg/kg		YES J	1	1 1	Į J		1		1	1			1	1
Selenium	0.549	mg/kg	J	YES	1		l	1	1	{		1			<u> </u>	1
Silver	1.02	mg/kg	υ	YES			ļ				[1		ĺ		1
Analysis Method :	7471B			Dilution: 1												
Mercury	0.0200	mg/kg	Ų	YES					l		1		l			1
Analysis Method :	8081			Dilution: 1												
4,4'-DDD	10.7	ug/Kg	U	YES		1	<u> </u>	L	<u> </u>	<u> </u>	l		l	<u> </u>	1	I,
4,4'-DDD	10.7	ug/Kg	U	YES		<u> </u>		<u> </u>	!		<u> </u>	I		l		
4,4'-DDE	10.7	ug/Kg	U	YES	<u> </u>	<u> </u>			[ļ			l			1
1,4'-DDE	10.7	uç/Kg	ម	YES		<u> </u>	1	[L				l			
4,4'-DDT	2.56	ug/Kg	3	YES UJ		U	J	<u> </u>	l						l	
4,4'-DDT	2.56	ug/Kg	J	YES UJ		[U]	J	l	l							1
Aldrin	10.7	ug/Kg	U	YES												
Allöhin	10.7	ug/Kg	υ	YES	1					1						
alpha-RHC	10.7	i ug/Kg i	U	YFS	1		į									
aipha-BHC	10.7	ugA(g	U.	YES	I			5								
alpha Chlordano	10.7	ug/Kg	U	YES	ł											
alpha-Chlordane	10.7	ug/Kg	υ	YES						1						
oeta-BHC	10.7	ug/Kg	U	YES	1		1					1				
peta-BHC	10.7	ug/Kg	U	YES	1		1	1								
Chlordane	35.7	ug/Kg	U	YES	1								1			
Chlordane	35.7	110/Kg	н	YFS		1 1							Í			
fetla-BHC	10,7	ug/Kg	U	YES	1		1					1			1	

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

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 Client Sample ID : E11-137-S3
 Lab Report Batch : 31101889
 Lab ID : SGSW

 Sample Date : 07/16/2011
 Analysis Type: RES
 Sample Matrix : SO

 Lab Sample ID: 31101889013
 Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quai	Rep Res	Overalí Qual*		нτ	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	IC	ICV	CC /
Analysis Method : 8081					Diluti	on: 1														
della-BHC	10.7		ug/Kg	U	YES						1	Ś	1			1			1	1
Dieldrin	10.7		ug/Kg	U	YES	: 1				1		Í					1		1	1
Dieldrin	10.7		ug/Kg	U	YES	: 1				l	1				1					[
Endosulfan t	10.7		ид/Кд	U	YES						1									1
Endosulfan I	10.7		ug/Kg	Ų	YES															1
Endosulfan II	10.7		ug/Kg	Ų	YES		1													1
Endosulfan II	10.7		ug/Kg	U	YES										1					1
Endosulfan sulfate	10.7		ug/Kg	υ	YES														1	1
Endosulfan sulfate	10.7		ug/Kg	ប	YES														1	}
Endrín	10.7		ug/Kg	U	YES		1				}								1	1
Endrin	10.7		ug/Kg	U	YES															I
Endrin aldehyde	10.7		ug/Kg	υ	YES											******				1
Endrín aldehyde	10.7		ug/Kg	U	YES														1	1
Endrin kelone	10.7		ug/Kg	U	YES										1					1
Endrin ketone	10.7		ug/Kg	υ	YES	1								:						1
gamma-BHC (Lindane)	10.7		ug/Kg	U	YES	1														1
gamma-BHC (Lindane)	10.7		ug/Kg	ប	YES			1				1	1							1
gamma-Chlordane	10.7		ug/Kg	U	YES	:	1	1		1	1	1	1				1			1
gamma-Chlordane	10.7		ug/Kg	U	YES	1			1											1
Hoptachlor	10.7		uy/Kg	U	YES	1			l			1					- 1			1
leptachlor	10.7		ug/Kg	U	YEG			1		}		1								
Heptachlor epoxide	10.7		ug/Kg	U	YES		1	1	1				1	1						1
Heptachtor epoxide	10.7		ug/Kg	U	YES	1		l			1	1	Í				1	1		1
Methoxychlor	10.7		ug/Kg	υ	YES	1	Ì		1			Ì			1		İ			1
Methoxychior	10.7	•••••••	ид/Кд	U	YES			·····	1			 	······ 			 		 		1
Тохарнопо	36.7	·····	ug/Kg	U	YES		1	1	····· /		······ 	····· · · · · · · · · · · · · · · · ·	····· · · · · · · · · · · · · · · · ·					······		1

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* 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

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Client Sample ID : E11-137-S3 Lab Report Batch : 31101889 Lab ID : SGSW Sample Date : 07/16/2011 Analysis Type: RES Sample Matrix : SO Lab Sample ID: 31101889013 Reviewed By / Date : Approved By / Date : Uncertainty / Result Lab Moist Field CVI Lab Rep Overall Rep

Analyte Name	Result	Error	Units	Qual	Res	Qual	Temp	нτ	MB	LCS	MS	Dup	Surr	Limit	Tot/Dis	QC	Tune	ю	ICV	ccv
Analysis Method : 8081					Diluti	on: 1														
Toxaphene	35.7		ug/Kg	U	YES				l]	1			1			[1	1
Analysis Method : 8151					Diluti	on: 1														
2,4,5-T	D.0173		mg/kg	U	YES	1				1					}			ł		1
2,4,5-TP (Silvex)	0.0173		mg/kg	U	YES					l				l				1	1	1
2,4'-D	0.0173		mg/kg	υ	YES						l						1	l		
2,4-DB	0.0173		mg/kg	U	YES					[1						1		ł	1
Dicamba	0.0173		mg/kg	U	YES						1		1				1		1	1
Analysis Method : 8260B					Diluti	on: 1														
1,1,1,2-Tetrachloroethane	4.47		ug/Kg	U	YES		Į			1				l					1	1
1,1,1-Trichloroethane	4.47		ug/Kg	U	YES		1						1							1
1,1,2,2-Tetrachloroelhane	4,47		ug/Kg	U	YES								(1		
1,1,2-Trichloroethane	4,47	ļ	ug/Kg	Ų	YES															1
1,1-Dichloroelhane	4.47		ug/Kg	υ	YES	UJ	1			UJ								;	1	
1,1-Dichloroelhene	4.47		ug/Kg	U	YES	UJ				UJ									ł	1
1,1-Dichloropropene	4.47		ug/Kg	U	YES															1
1,2,3-Trichlorobenzene	4.47		ug/Kg	υ	YES			1											1	1
1,2,3-Trichloropropane	4.47		ug/Kg	U	YES			1											1	1
1,2,4-1 richlorobenzene	4.47		⊔g/Kg	υ	YES		1	(Í						1		1	1
1,2,4-Trimelhylbenzene	4.47		ug/Kg	U	YES		1	1		1			1	1	1			1	į	
1,2-Dibromo-3-chloropropane	26 A		110/K0	U	YES		I	1	1				}						1	1
1,2 Dibromoethane	4.47		ug/K.g	υ }	YES			1	1		j							1		1
1,2-Dichlorobenzene	4.47		ug/Kg	υ	YES		1	1								1		1	1	l
1,2-Dichloroethane	4.47	1	ug/Kg	u	YES		í I	I			1	1	1		1	1	1	1	, I	l
1,2-Dichloropropane	4.47		ug/Kg	U	YES]		1			1				1		, I	1
1,3,5-Trimethylbenzene	4.47	1	ug/Kg	U	YES			1			1	1	})			1
3-Dichlorobenzene	4 47	Ì	10/K0	11	YES		1	1	1			1			1	1		1		1
,3-Dichloropropane	4.47		ug/Kg	U	YES		1				·····	······			1					1

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Client Sample ID : E11-137-S3

Lab Report Batch : 31101889

Analysis Type: RES

Lab ID : SGSW Sample Matrix : SO

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Sample Date : 07/16/2011 Lab Sample ID: 31101889013

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quai	Rep Res	Overall Qual*	Temp	нт	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Типе	IC	icv	CV CC
Analysis Method : 8260B					Diluti	on: 1						······								
1,4-Dichlorobenzene	4.47		ug/Kg	υ	YES	5		ĺ		1	ļ		1	í			1			1
2,2-Dichloropropane	4.47		ug/Kg	υ	YES				1		{	1							1	1
2-Butanone	22.3		ug/Kg	U	YES				1			(]	1	1
2-Chlorololuene	4.47		ug/Kg	U	YES									}			1		1	1
2-Hexanone	11.2		ug/Kg	U	YES]		1				1		1	1
4-Chlorotoluene	4.47		ug/Kg	U	YES						1]		1		1	1
4-Isopropyltoluene	4.47		ug/Kg	U	YES				1			}			[1	1
4-Methyl-2-pentanone	11.2		ug/Kg	U	YES														1	1
Acetone	44.7		ug/Kg	U	YES	UJ	1			UJ				}					1	1
Benzene	4.47		ug/Kg	υ	YES								1				1			1
Bromobenzene	4.47		ug/Kg	U	YES]				1	1
Bromochloromethane	4.47		ug/Kg	U	YES		1									•••••				1
Bromodichloromethane	4.47		ug/Kg	υ	YES														[1
Bromoform	4.47		ug/Kg	U	YES														1	1
Bromomethane	4.47		ug/Kg	U	YES		1												1	
Carbon disulfide	4.47		ug/Kg	υ	YES	LN				UJ										1
Carbon felrachloride	4.47		ug/Kg	U	YES				· · · · · · · · · · · · · · · · · · ·											1
Uhlorobenzene	4.47	i	ug/Kg	U ;	YES	ļ	1				1				1					1
Chlomethane	4.47		ug/Kg	Ų	YES	}	1								1				1	
Chlorofom)	4.47	;	ug/Kg	U	YES		1				i									1
Dhioromethanc	4.47	i	ug/Kg	U	YEC		ł			1	ļ	1	}		1					1
cis-1,2-Dichloroelhene	4.47	1	ug/Kg	U	YES	1		1	1	1	i					1				
sis-1,3-Dichloropropene	4.47		ug/Kg	U	YES	1	1	1												
Dibromochloromethane	4.47	1	ug/Kg	υ	YES		l													1
Dibromomethane	4.47	1	ug/Kg	U	YES							1	1	i						1
Dichlorodifluoromethane	1.47		ug/Kg	U	YES			1	······	1										

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

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Client Sample ID : E11-137-S3

Lab Report Batch : 31101889

Analysis Type: RES

Lab ID : SGSW Sample Matrix : SO

Sample Date : 07/16/2011 Lab Sample ID: 31101889013

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	Rep Limit	Moist Tot/Dis		Tune	IC	icv	CV / CCV
Analysis Method : 8260B					Diluti															
Ethyl Benzene	4.47		ug/Kg	U	YES		1	1	1	1	1	}	1	1					1	
Hexachlorobuladiene	4.47		ug/Kg	U	YES		1		1	1	1									
tsopropylbenzene (Cumene)	4.47		ug/Kg	υ	YES						1				1					1
m,p-Xylene	8.93		ug/Kg	U	YES				1								1			1
Methyl iodide	4.47		ug/Kg	U	YËS			1	1	1		1								I
Methylene chloride	17.9		ug/Kg	Ų	YES	IJJ				UJ		1							1	1
Naphthalene	4.47		ug/Kg	U	YES				1			}			}				1	}
n-Bulybenzene	4.47		ug/Kg	υ	YES				1		1									
n-Propylbenzene	4.47		ug/Kg	υ	YES					}	{									1
o-Xylene	4.47		ug/Kg	U	YES				1											1
sec-Butylbenzene	4.47		ug/Kg	U	YES							ļ								1
Styrene	4.47		ug/Kg	U	YES						1	{								1
en-Bulyi methyl ether (MTBE)	4.47		ug/Kg	U	YES	UJ				UJ										1
ert-Bulybenzene	4,47		ug/Kg	Ų	YES															1
Fetrachloroethene	4.47		ug/Kg	υ	YES										1		1			1
Foluene	4.47		ug/Kg	U	YES				[}			1
rans-1,2-Dichloroelhene	4.47		ug/Kg	U	YES	ιIJ				UJ										
rans-1,3-Dichloropropene	4.47		ug/Kg	U	YES		1						}	1						1
rans 1,4 Dichloro 2 butene	22.3		ug/Kg	v	YES	1						ļ	İ							1
richlerocthene	1.47		ug/Kg	U	YEE										1		1			1
richlorofluoromethane	4.47		ug/i(g	U	YEG										1			1		ŧ
/inyl chloride	4.47		ug/Kg	U	YES		1						ł				ļ	1		1
Analysis Method : 8270D			*********		Dilutio	n: 1														
,2,4-Trichlorobenzene	356	!	ug/Kg	U	YES	}					11		1							1
,2-Dichlorobenzene	356	1	ug/Kg	U	YES										1					1
.3 Dichlorobenzene	356	1	ug/Kg	V	YES			1							1		1	1		1
,4-Dichlorobenzene	356		ug/Kg	υ	YES		1	1				1		1			1	1		1
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* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

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Client Sample ID : E11-137-S3

Lab Sample ID: 31101889013

Sample Date : 07/16/2011

Lab Report Batch : 31101889 Analysis Type: RES

Lab ID : SGSW Sample Matrix : SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lah Qual	Rep Res	Overali Qual*	Temp	нт	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	ťC	ICV	CV I CCV
Analysis Method : 8270D			·····		Dilutio	on: 1														
2.4,5-Trichlorophenol	356		ид/Кд	U	YES		1			1			ĺ				1	}	1	1
2,4,6-Trichlorophenol	356		ug/Kg	Ų	YES					I		1						[1	1
2,4-Dichlorophenol	356		ug/Kg	U	YES	[1	I	1		1						1	I
2,4-Dimethylphenol	356		ug/Kg	Ų	YES				1		}		1							
2,4-Dinitrotoluene	356		ug/Kg	U	YES															1
2,6-Dinitrototuene	356		ug/Kg	U	YES	1			1	1			1							1
2-Chloronaphthalene	356		ug/Kg	Ų	YES	1			1	1									1	1
2-Chiorophenol	356		ug/Kg	U	YES	1			1				[1	I
2-Methylnaphthalene	356		ug/Kg	U	YES						1								1	I
2-Methylphenol	356		ug/Kg	U	YES		1				1								1	1
2-Nitroaniline	356		ug/Kg	U	YES														1	1
2-Nitrophenol	356		ug/Kg	U	YES	((1	1
3 and/or 4-Methylphenol	356		ug/Kg	U	YES		1													1
3-Nitroaniline	356		ug/Kg	U	YES															1
4-Bromophenyl phenyl elher	356		ug/Kg	U	YES			1]		;							1
4-Chioro-3-methylphenol	356		ug/Kg	Ų	YES	;					1			1			{			1
4-Chloroaniline	356		ug/Kg	V	YES									1					1	1
4-Chlorophenyl phenyl ether	356		ug/Kg	U	YES		1			1		1							1	I
1 Nitroaniline	356		ug/Kg	U	YES		1		1	1		1								1
4-Nitrophenol	366		ug/Kg	U	YES	1	1	1												
Acenaphthene	350		ug/Kg	U	YEG			1			1	1	1		1		1		[1
Acenaphthylene	356	1	ug/Kg	U	YES		1	ļ			1		İ	1	1					1
Anthracene	356		ug/Kg	υ	YES		1	1				1		1	(1	1
Benzo(a)anlhracene	356		ug/Kg	U	YES		1												1	
Benzo(a)pyrene	356	1	ug/Kg	U	YES	·····		ĺ						1						
Benzo(b)fluoranthono	366	····	ug/Kg	U	YES	· · · · · · · · · · · · · · · · · · ·											1		1	

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 11-032E - 11-032E Carroll Agent Orange
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• Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

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Client Sample ID : E11-137-S3 Lab Report Batch : 31101889 Lab ID : SGSW Sample Date : 07/16/2011 Analysis Type: RES Sample Matrix : SO Lab Sample ID: 31101889013 Reviewed By / Date : Approved By / Date : CV/ CCV Uncertainty / Error Result Lab Dup Rep Moist Limit Tot/Dis Lab Qual Rep Res Overall Qual* Field LCS MS Surr łCV Analyte Name Result Units Temp HT MB QC Tune IC Analysis Method : 8270D Dilution: 1 Benzo(g,h,i)perylene 356 ug/Kg U YES Benzo(k)fluoranthene 356 υ ug/Kg YES 356 Bis(2-Chloroethoxy)methane ug/Kg υ YES Bis(2-Chloroethyl)ether 356 U YES ug/Kg Bis(2-Chloroisopropyl)ethe 356 ug/Kg υ YES Bis(2-Ethylhexyl)phthalate 356 υ YES uq/Kg Butyl benzyl phthalate 356 ug/Kg ü YES 356 YES Chrysene ug/Kg Ų Dibenz(a,h)anthracene 356 Ų YES ug/Kg Dibenzofuran 356 U ug/Kg YES 356 U Diethyl phthalate YES ug/Kg 356 Dimethyl phthalate ug/Kg υ YES Di-n-bulyl phthalale 356 YES Ū ug/Kg Di-n-octyl phthalate 356 ug/Kg υ YES Fluoranthene 356 ΰ ug/Kg YES Fluorene 356 ug/Kg υ YES 356 ug/Kg YES Hexachiorobenzene υ Hexachlorobutadiene 356 ug/Kg υ YES 356 | lexachlorocyclopentadienc ug/I(g υ YEG Hexachioroellisarie 350 υ YE8 uy/Ky Indeho(1,2,3-cd)pyrene 356 ug/Kg U YES 356 YE\$ Isophorone ua/Ka Ų Naphihalene 356 ug/Kg υ YES 356 Nitrobenzene υ YES ug/Kg n-Nitrosodi-n-propylamine 356 ug/Kg U YES 950 Pentachtorophenol Ų YE3 IJ uy/Ky ບມ 11-032E - 11-032E Carroll Agent Orange Project Number and Name: Library Used: CampCarroll Report Date: 9/8/2011 09:53

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

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Client Sample ID : E11-137-S3			L	ab Re	port	Batch	:3110)1889								Lab	ID : SO	SW		
Sample Date : 07/16/2011				An	alysi	s Type	RES							S	ample	Mate	rix : SC)		
Lab Sample ID: 31101889013																				
Reviewed By / Date :							Арр	roved	i By /	Date :										
		•••••									********	********								
	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overail Qual*	Temp	нт	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Типе	IC	ICV	CV/ CCV
Analyte Name Analysis Method : 8270D	Result	_ /			Rep Res Diluti	Qual*	_	нт	MB	LCS	MS		Surr	Rep Limit	Moist Tot/Dis		Типе	IC	ICV	
	Result 356	Error			Res	Qual* on: 1	_	нт	MB	LCS	MS		Surr	Rep Limit	Moist Tot/Dis		Tune	IC		
Analysis Method : 8270D		Error	Units	Qual	Res Diluti	Qual* 0n: 1	_	нт 	мв 1	LCS	MS]		Surr	Rep Limit	Moist Tot/Dis		Tune	IC	ICV	

Project Number and Name: 11-032E - 11-032E Carroll Agent Orange Library Used: CampCarroll ADR 8.2 Report Date: 9/8/2011 09:53 Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

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Client Sample ID : E11-137-S4 Lab Report Batch : 31101889 Lab ID : SGSW Sample Date : 07/16/2011 Analysis Type: RES Sample Matrix : SO Lab Sample ID: 31101889014 Reviewed By / Date : Approved By / Date : Result Units Rep Res Overali Qual* Rep Moist Surr Limit Tot/Dis Field QC CV/ CCV Uncertainty / Lab Qual Lab Dup icv Error Temp НŦ MB LCS MS Tune tC Analyte Name Result Analysis Method : 6010C Dilution: 1 0.994 mg/kg J YES J J Arsenic J Barium 73.9 mg/kg YES YES 0.704 mg/kg U U | Cadmium I 1

roject Number and Name:	11-032E - 11-032E Carroll /					••••••	•••••••				······			<u> </u>	·	·	<u></u>	<u>!</u>
elta-BHC	10.6	ug/Kg U			- <u> </u>	! 				·····!	 			! 	! 	4i	!! 	!
hiordano	35.2	ug/Kg U			- <u> </u>	!			<u>!</u>		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		! 	! 	1	!! !	1
Chlordane	35.2	ug/Kg L				! 	1	·/-						: }	1	' 	<u></u>	1
eta-BHC	10.6	ug/Kg L			1	: I	' 	· · · · · · · · · · · · · · · · · · ·	ا ا					: 1	L	ч I	/ 	:
peta-BHC	10.6	ug/Kg L			4	1	•••••••		······ 	••••••			[L			1
alpha-Chlordane	10.6	ug/Kg L	·- <i>··</i> .			± 1	·		······							1 {	1	1
alpha-Chlordanc	10.6	ug/Kg L	YEE			: 	` 		······				 		1	······		1
alpha BHC	10.8	եսց/Кց է	YES		 			//. 							1	·····	 	1
aipha-BHC	10.6	ing/Kg I	;			: 1			!! 	· · · · · · · · · · · ·		•••••						1
Aldrin	10,6	ug/Kg L	'			1			ئ ا	•••••			: 		1		1	i
Aldrin	10.6	ug/Kg L	• • • • • • • • • • •		·········	:			·····						1			i
I,4'-DDT	1.69	ug/Kg	YES			,	υ		J						1		1	i
4.4-DDT	1.69	ug/Kg	• • • • • • • • • • • •		1	!	ίυ	//							1		1	†
4'-DDE	10.6	ug/Kg L				1			:،						1		/	1
1.4'-DDE	10.6	ug/Kg l	I YES			1		1		• • • • • • • • • • •			 				 I	1
4,4'-DDD	10.6	ug/Kg l					.' 1	// 	••••••	• • • • • • • • • • •	!		••••••• •	- <u>-</u>	. <u>.</u>	4	1	·:
4,4'-DDD	10,6	ug/Kg l		****	i	1	[1	1	1	1	1	1
Analysis Method : 1		1 119-19		tion: 1		.!	·	!í				l	·	ł .	t		ł	
Mercury	0.0209	mg/kg l					1	1 :			1				 F		1	
Silver Analysis Method : 1	1.11	mg/kg L		tion: 1		.!		!					! 				1	.!
Selenium	0.862	mg/kg	·			. <u> </u>		<u> </u>			I 			•		<u>.</u>	1	. !
Lead	5.34	mg/kg	YE				ļ	ļļ	J						. <u>.</u>		<u> </u>	. !
Chromium	3.45	mg/kg	YE		<u>ļ</u>		ļ	ļ			ļ		ļ	. <u>.</u>	. <u>.</u>	ļ	<u> </u>	. <u>.</u>
Caunnun	0.704	inging :			••••		<u>.</u>	<u>.</u>	• • • • • • • • •							÷		

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

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Client Sample ID : E11-137-S4 Sample Date : 07/16/2011 Lab Sample ID: 31101889014

Lab Report Batch : 31101889

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	Overali Quał⁴	Temp	нт	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	IC	ICV	CV / CCV
Analysis Method : 8081					Diluti							•								
della-BHC	10.6		ug/Kg	U	YES			ł	1	1	Ì	1					1		1	1
Dieldrin	10.6		ug/Kg	U	YES	;							·	1						1
Dieldrin	10.6		ug/Kg	υ	YES					}		1		[1	1
Endosulfan I	10.6		ug/Kg	U	YES				1			1	1						1	1
Endosulfan I	10.6		ug/Kg	Ų	YES					1	}							}		1
Endosulfan II	10.6		ug/Kg	Ų	YES											•••••		(1	1
Endosulfan II	10.6		ug/Kg	U	YES	[1	1
Endosulfan sulfate	10.6		ug/Kg	U	YES															Ì
Endosulfan sullate	10.6		ug/Kg	U	YES	1			1	1									1	
Endrin	10.6		ug/Kg	U	YES				1	1	1	;							1	1
Endrin	10.6		ug/Kg	U	YES						1	}							1	1
Endrin aldehyde	10.6		ug/Kg	υ	YES	ļ														1
Endrin aldehyde	10.6		ug/Kg	U	YES				1	1										1
Endrin ketone	10.6		ug/Kg	U	YES						}								1	1
Endrin kelone	10.6		ug/Kg	U	YES		1													
gamma-BHC (Lindane)	10.6		ug/Kg	υ	YES				1											
gamma-BHC (Lindane)	10.6		ug/Kg	U	YES	1			1				ĺ							1
gamma-Chlordane	10.6		ug/Kg	U	YES						1		(1	
gamma-Chlordano	10.6		ug/Kg	Ų	YES		1										1		1	1
leptachior	10,0		ug/Kg	U	YLU												1			l
Teptachio	10.0		uy/Ky	υ	YES	1							1							
replachlor epoxide	10,6		ug/Kg	U	YES	ł							1							1
teptachtor epoxide	10.6		ug/Kg	U	YES		1					1		1						1
Vethoxychlor	10.6	1	ug/Kg	U	YES							1		١		1	1			1
Viethoxychlor	10.6		ug/Kg	υ	YES											١				
Foxaphene	35.2		ug/Kg	บ	YEG	1				1	1			4	J					}

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

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Client Sample ID : E11-137-S4 Lab Report Batch : 31101889 Lab ID : SGSW Sample Date : 07/16/2011 Analysis Type: RES Sample Matrix : SO Lab Sample ID: 31101889014 Reviewed By / Date : Approved By / Date : CV/ CCV Uncertainty / Overall Qual* Rep Moist Limit Tot/Dis Result Lab Rep Res Lab Field QC 1CV LCS MS Dup Surr IC Analyte Name Result Error Units Qual Temp нτ MB Tune Dilution: 1 Analysis Method : 8081 Toxaphene 35.2 ug/Kg υ YES Analysis Method : 8151 Dilution: 1 0.0176 2,4,5-T mg/kg υ YES 2,4,5 TP (Silvex) 0.0176 υ YES mg/kg 0.0176 υ YES 2,4'-D mg/kg 0.0176 U 2,4-DB mg/kg YES Dicamba 0.0176 mg/kg Ų YES Dilution: 1 Analysis Method : 8260B 1,1,1,2-Tetrachloroethane 4,65 ug/Kg υ YES 4.65 ΰ 1,1,1-Trichloroethane YES ug/Kg 1,1,2,2-Telrachtoroetha 4.65 ug/Kg U YES 1,1,2-Trichloroethane 4.65 U YES ug/Kg 1,1-Dichtoroethane 4.65 Ų YES θJ 0J ug/Kg IJJ UJ 4.65 U YES 1.1-Dichloroethene ug/Kg 1,1-Dichloropropene 4.65 ug/Kg ü YES 4.65 1,2,3-Trichlorobenzene ug/Kg Ų YES 1,2,3-Trichloropropane 4.65 υ YES ug/Kg 1,2,4-Trichlorobenzene 4.65 ug/Kg υ YËS 1,2,4 Trimothylbonzono 1.65 U YES ug/Kg 1,2-Dibromo-0-chloroprop 27.0 ug/Kg U YES 1.2-Dibromoethane 4.65 ug/l(g U YES 1.2-Dichlorobenzene 4.65 ug/Kg υ YES 1.2-Dichloroelhane 4.65 ug/Kg υ YES 1,2-Dichloropropane 4.65 ug/Kg U YES 1,3,5-Trimethylbenzene 4.65 YES ug/Kg U 1,3-Dichlorobenzene 4.65 ug/Kg U YES U 1.3-Dichloropropane 4.65 ug/Kg YES CampCarroll

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

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Client Sample ID : E11-137-S4 Lab Report Batch : 31101889 Lab ID : SGSW Sample Date : 07/16/2011 Analysis Type: RES Sample Matrix : SO Lab Sample ID: 31101889014 Reviewed By / Date : Approved By / Date : Uncertainty / Result Lab Rep Res Overall Quai* Lab Rep Moist Limit Tot/Dis Field CV/ CCV Analyte Name Result Error Units Qual Temp нт ΜВ LCS MS Dup Surr QC Tune íC ICV Analysis Method : 8260B Dilution: 1 1.4-Dichlorobenzene 4.65 ug/Kg υ YËS 2,2-Dichloropropane 4.65 u ug/Kg YES 2-Butanone 23.2 U YES ug/Kg 4.65 2-Chlorotoluene υ ug/Kg YES 2-Hexanone 11.6 υ YES ug/Kg 4-Chlorofoluene 4.65 ug/Kg U YES 4-Isopropylloluene 4.65 ug/Kg U YES 4-Methyl-2-pentanone 11.6 ug/Kg U YES 46.5 υ YES Acetone UJ UJ ug/Kg Benzene 4.65 ug/Kg U YES Bromobenzene 4.65 U ug/Kg YES Bromochloromethane 4.65 ug/Kg U YES Bromodichloromethane 4.65 YES υ ug/Kg Bromolorm 4.65 ug/Kg υ YES Bromomethane 4.65 ug/Kg υ YES Carbon disulfide 4.65 υ YES IJ ÛĴ ug/Kg Carbon tetrachloride 4.65 ug/Kg υ YES 4.65 U Chlorobenzene YES ug/Kg Chloroelhane 4.65 uy/Kg υ YES 4.65 Uniorotorm ug/Kg υ YES Chloromethane 4.65 ug/Kg υ YES cis-1 2-Dichlorgethene 4 65 ug/Kg U YES cls-1,3-Dichloropropene 4.65 U YES ug/Kg Dibromochloromethane 4.65 υ YES ug/Kg Dibromomethane 4.65 ug/Kg υ YES Ulchlorodifluoromethane 4.65 YES ug/Kg U Project Number and Name: 11-032E - 11-032E Carroll Agent Orange Library Used: CampCarroll

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

52.14

Report Date: 9/6/2011 09:53

Client Sample ID : E11-137-S4 Lab Report Batch : 31101889 Lab ID : SGSW Sample Date : 07/16/2011 Analysis Type: RES Sample Matrix : SO Lab Sample ID: 31101889014 Reviewed By / Date : Approved By / Date : Uncertainty / Error Result Lab Qual Rep Res Overall Lab Rep Moist Limit Tot/Dis Field CV / CCV Analyte Name Result Units Qua!* Temp HТ ΜВ LCS MS Dup Surr QC Tune 1C ICV Analysis Method : 8260B Dilution: 1 Elhyl Benzene 4.65 ug/Kg υ YES Hexach[orobutadiene 4,65 ug/Kg υ YES isopropylbenzene (Cume 4.65 υ YES ug/Kg m,p-Xylene 9 30 ug/Kg u YES Methyl iodide 4.65 U YES ug/Kg Methylene chloride 18.6 ug/Kg υ YES UJ υJ Naphthalene 4.65 YÉS ug/Kg υ n-Butylbenzene 4.65 ug/Kg U YES 4.65 n-Propylbenzene YES ug/Kg U o-Xylene 4.65 ug/Kg Ų YES sec-Bulybenzene 4.65 ug/Kg υ YES Styrene 4.65 ug/Kg υ YES tert-Butyl methyl elher (MTBE) 4.65 υJ ug/Kg υ YES υJ tert-Butylbenzene 4.65 υ YES ug/Kg Tetrachioroethene 4.65 ug/Kg Ð YES Toluene 4.65 ug/Kg U YES trans-1,2-Dichtoroethene 4.65 ug/Kg u YES ÛĴ θJ 4.65 trans-1,3-Dichloropropene υ YES ug/Kg trans-1,4-Dichloro-2-butene 23.2 ug/Kg υ YES Irichtoroethene 4.65 ug/Kģ υ YES Trichlorofluoromethar 4.65 ug/Kg U YES Vinyl chloride 4 65 н YES ng/Kg Analysis Method : 8270D Dilution: 1 357 1.2.4-Trichlorobenzene ug/Kg υ YES 1,2-Dichlorobenzene 357 ug/Kg υ YES 357 1.3-Dichlorobenzene YES uy/Kg υ 1,4-Dichlorobenzene 357 U YES ug/Kg 11-032E - 11-032E Carroll Agent Orange Project Number and Name: Library Used: CampCarroll Page 112 of 288 ADR 8.2 Report Date: 9/6/2011 09:53

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

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Client Sample ID : E11-137-S4 Lab Report Batch : 31101889 Lab ID : SGSW Sample Date : 07/16/2011 Analysis Type: RE\$ Sample Matrix : SO Lab Sample ID: 31101889014 Reviewed By / Date : Approved By / Date : Uncertainty / Error Result Units Lab Qual Rep Res Overall Quai* Lab Dup Rep Moist Limit Tot/Dis Field CV/ CCV Analyte Name Result Temp нτ MB LCS MS Surr QC Tune IC ICV Analysis Method : 8270D Dilution: 1 2,4,5-Trichlorophenol 357 ug/Kg U YES 2,4,6-Trichlorophenol 357 ug/Kg υ YES 2,4-Dichlorophenol 357 ug/Kg YES υ 357 2.4-Dimethylphenol ug/Kg U YES 2,4-Dinitrololuene 357 U YES ug/Kg 2,6-Dinitrololuene 357 ug/Kg U YES 2-Chloronaphthalene 357 U YES ug/Kg 2-Chlorophenol 357 ug/Kg υ YES 357 2-Methylnaphthalene υ YES ug/Kg 2-Methylphenol 357 ug/Kg U YES 357 2-Nitroaniline ug/Kg υ YES 2-Nilrophenol 357 ug/Kg υ YES 3 and/or 4-Methylphenol 357 YES υ ug/Kg 3-Nitroaniline 357 υ YES ug/Kg 357 4-Bromophenyl phenyl ether ug/Kg U YES 4-Chloro-3-methylphenol 357 ug/Kg U YES 4-Chloroaniline 357 ug/Kg υ YES 357 υ 4-Chlorophenyl phenyl ether ug/Kg YES 4-Nitroaniline 357 uy/Ky U YES 4-Nilrophendi 357 ug/Kg U YES Acenaphthene 357 ug/Kg υ YES Aceoaphthylene 357 ug/Kg U. YES Anthracene 357 U YES ug/Kg Benzo(a)anthracene 357 YES ug/Kg υ Benzo(a)pyrene 357 ug/Kg U YES Benzo(b)nuoranthene 35/ ug/Kg U ۲ES ;

Project Number and Name: 11-032E - 11-032E Carroll Agent Orange Library Used: CampCarroll AUR 8.2 Report Date: 9/6/2011 09:53

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

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Lab ID : SGSW Client Sample ID : E11-137-S4 Lab Report Batch : 31101889 Sample Date : 07/16/2011 Analysis Type: RES Sample Matrix : SO Lab Sample ID: 31101889014 Approved By / Date : Reviewed By / Date : Uncertainty / Error Result Units Lab Quaf Rep Res Overall Qual* Lab Dup Rep Limit Moist Tot/Dis Field CV/ CCV Result ΜВ LCS мs Surr QC Tune IC юv អរ Analyte Name Temp Analysis Method : 8270D Dilution: 1 357 Benzo(g,h,i)perviene u YES ug/Kg Benzo(k)fluoranthene 357 ug/Kg υ YES 357 Bis(2-Chloroethoxy)methane υ YES ug/Kg Bis(2-Chloroethyl)ether 357 ug/Kg υ YES 357 U YES Bis(2-Chloroisopropyl)elher ug/Kg Bis(2-Ethylhexyl)phthalate 357 ug/Kg υ YES 357 Ų Butyl benzyl phihalate ug/Kg YES Chrysene 357 ug/Kg Ų YES 357 U YES Dibenz(a,h)anthracene ug/Kg Dibenzofuran 357 ug/Kg U YES Diethyl phthalate 357 ug/Kg υ YES Dimethyl phlhalate 357 υ YES ug/Kg 357 Di-n-butyl phihalale ug/Kg U YES 357 Di-n-octyl phthalale ug/Kg Ų YES Fluoranthene 357 ug/Kg υ YES 357 Fluorene ug/Kg υ YES Hexachlorobenzene 357 ug/Kg υ YES 357 Hexachlorobutadiene U YES ug/Kg 357 υ Hexachlorocyclopenladiene ug/Kg YES 357 Hexachloroethane ug/Kg υ YES 357 υ YES Indeno(1,2,3-cd)pyrene ug/Kg 357 loophorono ug/K.g Ð YES 357 YES Naphthalene U ug/Kg Nitrobenzene 357 ug/Kg υ YES 357 YES ug/Kg υ n-Nitrosodi-n-propylamine Pentachlorophenol 357 ug/Kg U YES មរ IJ

Project Number and Name: 11-032E - 11-032E Carroll Agent Orange ADR 8.2 Library Used: CampCarroll Report Date: 9/6/2011 09:53

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

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Client Sample ID : E11-137-S4		Lab Report Batch : 31101889 Lab ID : SGSW Analysis Type: RES Sample Matrix : SO																		
Sample Date : 07/16/2011				An	alysis	з Туре	RES							S	Sample	e Matr	ix:SC)		
Lab Sample ID: 31101889014	1																			
										- (
Reviewed By / Date :							Арр	rovec	I 8y /	Date :										
	Result	Uncertainty / Error	Result Units	Lab Quai	Rep Res	Overa# Qual*		rovec нт	189/ 	LCS	MS	Lab Dup	Surr	Rep Limit	Molst Tot/Dis	Field QC	Tune		łcv	cv / ccv
	Result					Qual*	_		-				Surr	Rep Limit	Molst Tot/Dis	Field QC	Tune	IC	łcv	
Analyte Name	Result 357				Res	Qual*	_		-				Surr	Rep Limit	Molst Tot/Dis	Field QC	Tune	IC	icv	
Analyte Name Analysis Method : 8270D		Error	Units		Res Dilutic	Qual*	_		-				Surr	Rep Limit	Molst Tot/Dis	Field QC	Tune	IC	icv	

Project Number and Name:	11-032E - 11-032E Carroll Agent Orange	Library Used:	CampCarroll	•	
ADR 8.2	Keport	Date: 9/6/2011-09:53		Чa	ige 115 of
* Overall result qualifier reflects summ	ation of qualifiers added during automated data review and any qualifiers added manually for calegories out	assessed by automated dat	a review		

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Client Sample ID : E11-141-S1	Lab Report Batch : 31101889 Lab ID : SGSW Analysis Type: RES Sample Matrix : SO																			
Sample Date : 07/16/2011				Aı	nalysis	s Туре	: RES							s	ample	Mate	ix : So	2		
Lab Sample ID: 31101889015																				
Analyte Name Result Error Units Qual Res Qual Temp HT MB LCS MS Dup Surr Limit Tot/DIs QC Tune IC ICV CC Analysis Method : 6010C Dilution: 1																				
Analyte Name	Result							нγ	мв	LCS	MS		Surr				Tune	IC		CV / CCV
Analysis Method : 6010C					Diluti	on: 1		,												
Arsenic	3.27		mg/kg		YES	J					Į J	J					1	Ì	1	1
Barium	83.0		mg/kg		YES				1		}		1				1		1	1
Cadmium	0.999		mg/kg		YES	U			Įυ	1	}		l	1						
Chromium	5.07		mg/kg		YES	J				1		3					ł	Į		1
Lead	11.9		mg/kg		YES	J				1	J							1	1	1
Selenium	2.05		mg/kg	U	YES								1				1	1	1	1
Silver	1.02		mg/kg	U	YES				1								1	}		1
Analysis Method : 7471B					Dilutio	on: 1														
Mercury	0.00186		mg/kg	J	YES				l	I	l		li				I	l	I	
Analysis Method : 8081					Dilutio	on: 1														
4,4'-DDD	2.22		ug/Kg	J	YES					l								l	<u> </u>	
4,4'-DDD	2.22		ug/Kg	J	YES			i	li	l			l				l		<u> </u>	<u>.</u>
4,4'-DDE	3.40		ug/Kg	JР	YES			l		l							l		<u>I</u>	
4,4'-DDE	3,40		ug/Kg	JP	YES		!			l]						<u> </u>		'	<u> </u>
4,4'-DDT	20.6		ug/Kg		YES	J				l	J								<u>.</u>	<u> </u>
4,4'-DDT	20.6		ug/Kg		YES	J					J									
Aldrin	10.2		ug/Kg	U	YES			l											<u> </u>	
Aldrin	10.2		ug/Kg	υ	YES]											<u> </u>	<u> </u>
alpha-BHC	10.2		ug/Kg	U	YES								{							1
alpha-BHC	10.2		ug/Kg	υ	YES							1								1
alpha-Chlordane	10.2		ug/Kg	υ	YES															1
aipha-Chlordane	10.2		ug/Kg	ΞŲ.	YES	1														
beta-BHC	10.2		ug/Kġ	U	YES								1							
oeta-BHC	10.2		ug/Kg	U	YES		Ī	1			1		1			l				1
Chiordane	33.9		ug/Kg	U	YES			1]				Ī		1		1			1
Chiordane	33.9		ug/Kg	U	YES	1				ĺ						1	Į			1
lelta-BHC	10.2		ug/Kg	υ	YES	1			1							1	1			

ADR 8.2

* Overall result qualifier rollede summation of qualifiers added during automated data review and any qualifiers added manually for calegories not accessed by automated data review

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Report Date: 9/6/2011 09:53

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Client Sample ID : E11-141-S1 Lab ID : SGSW Lab Report Batch : 31101889 Sample Date : 07/16/2011 Analysis Type: RES Sample Matrix : SO Lab Sample ID: 31101889015 Reviewed By / Date : Approved By / Date : Uncertainty/ Result Units Lab Qual Rep Res Overaii Qual* Lab Dup Rep Moist Limit Tot/Dis Fleid QC CV / CCV Analyte Name Result Error Temp нτ MB LCS MS Surr Tune IC ICV Analysis Method : 8081 Dilution: 1 delta-BHC 10.2 ug/Kg υ YES Dieldrin 10.2 uq/Ko υ YES Dieldrin 10.2 U YES ug/Kg Endosulfan I 10.2 ug/Kg υ YES Endosulfan I 10.2 υ YES ug/Kg Endosulfan II 10.2 ug/Kg Ų YES Endosulfan II 10.2 U YES ug/Kg Endosulfan sulfate 10.2 ug/Kg υ YES Endosulfan sulfale 10.2 υ YES ug/Kg Endrin 10.2 ug/Kg U YES Endrin 10.2 ug/Kg U YES Endrin aldehyde 10.2 ug/Kg υ YES Endrin aldehyde 10.2 υ YES ug/Kg Endrin ketone 10.2 ug/Kg U YES Endrin kelone 10.2 ug/Kg υ YES gamma-BHC (Lindane) 10.2 ug/Kg υ YES gamma-BHC (Lindane) 10.2 ug/Kg υ YES gamma-Chlordane 10.2 U YES ug/Kg gamma-Chiordane 10.2 ug/Kg u YES Heptachlor 10.2 υ ug/Kg YES Heplachlo 10.2 ug/Kg U YES Heptachlor epoxide 10.2 ŧ, YES нд/Кд 10.2 U YES Heptachlor epoxide ug/Kg

10.2 ug/Kg U YES Methoxychio l oxáphene 33.9 ug/Kg υ YES ÷ Project Number and Name: 11-032E - 11-032E Carroll Agent Orange Library Used: CampCarroll Report Date: 9/6/2011 09:53

YES

υ

AUR 8.2

Methoxychlor

* 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

ug/Kg

10.2

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c

Client Sample ID : E11-141-S1 Lab Report Batch : 31101889 Lab ID : SGSW Sample Date : 07/16/2011 Analysis Type: RES Sample Matrix : SO Lab Sample ID: 31101889015 Reviewed By / Date : Approved By / Date : Rep Moist Limit Tot/Dis CV/ CCV Uncertainty / Error Lab Dup Field QC Result Units Lab Qual Rep Res Overali Quai* Temp нт LCS MS Surr IC tcv Analyte Name Result MB Tune Dilution: 1 Analysis Method : 8081 Toxaphene 33.9 ug/Kg U YES Analysis Method : 8151 Dilution: 1

, and the second s				iven		1	1	1	•	,		1				1		··	
2,4,5-T	0.0169	mg/kg	U	YES			ļ		ļ	<u>.</u>	4			ļ		Į		<u> </u>	ļ
2.4.5 TP (Silvex)	0.0169	mg/kg	U	YES			<u> </u>		1	<u> </u>	1	l		<u> </u>	I	Į			I
2,4'-D	0.0169	mg/kg	U	YES			<u> </u>		1	<u>.</u>		Į		<u> </u>		<u> </u>	<u>.</u>	<u> </u>	l
2,4-DB	0.0169	mg/kg	U	YES			ļ	<u> </u>	<u> </u>	}			!		1	l		<u> </u>	[
Dicamba	0.0169	mg/kg	U	YES			1		<u> </u>	1		1		1	1	I	1	<u> </u>	
Analysis Method : 8260B	·			Dilutio	on: 1														
1,1,1,2-Tetrachloroelhane	4.63	ug/Kg	U.	YES		}	<u> </u>	1	<u> </u>	<u> </u>		l		1	<u> </u>	<u> </u>		<u> </u>	I
1,1,1-Trichloroelhane	4.63	ug/Kg	U	YES		1	<u> </u>	1	1		1				<u> </u>	<u> </u>		1	
1,1,2,2-Tetrachloroethane	4.63	ug/Kg	υ	YES					1		1	l]	1			
1,1,2-Trichloroethane	4.63	ug/Kg	U	YES			1			[1	l		ł	
1,1-Dichloroethane	4.63	ug/Kg	Ų	YES	UJ				UJ]								
1,1-Dichloroelhene	4.63	ug/Kg	U	YES	IJ		[l	83		l								
1,1-Dichloropropene	4.63	ug/Kg	U	YES			1								1		1		
1,2,3-Trichlorobenzene	4.63	ug/Kg	U	YES				1		1				1	}	l	1		
1,2,3-Trichloropropane	4.63	ug/Kg	U	YES			1	1		1				1	I		[
1,2,4 Trichlorobenzene	4.63	ug/Kg	U	YES				1	1		1								l
1,2,4-Trimethylbenzone	4.63	ug/Kg	υ	YES			1		1	1	1								
1,2-Dibromo-3-chioropropane	27.0	ug/itg ;	U	YLO :			1			1					1		1		
1,2-Dibromdelliane	4.63	ug/Kg	U	YE8				1	I	[}		1		
1.2-Dichlorobenzene	4.63	ua/Ka	U	YES				1			1								
1,2-Dichloroelhane	4.63	ug/Kg	Ų	YES				1	1		1								
1,2-Dichioropropane	4.63	ug/Kg	U	YES			1		1		ĺ								
1,3,5-Trimethylbenzene	4.63	ug/Kg	U	YES			1	1									1		
1,3-Diuldorubenzene	4.03	ug/Kg	U	YEO				1											
1,3-Dichloropropane	4.63	ug/Kg	U	YES															
Project Number and Name: 11-	032E - 11-032E Carroll	Agant Oranga								Lib	rary Us	nd:	Campo	Parroll					
Tolect Number and Name, 11-	VOLE + 11-032E Carlon	Agent Orange								Liu	any Us	cu.	oampo	Jan Uli					

AUR 8.2

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

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Report Date: 9/8/2011 09:53

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Client Sample ID : E11-141-S1 Lab ID : SGSW Lab Report Batch : 31101889 Sample Date : 07/16/2011 Analysis Type: RES Sample Matrix : SO Lab Sample ID: 31101889015 Reviewed By / Date : Approved By / Date : Uncertainty / Result Units Lab Qual Rep Res Overall Qual* Lab Dup Rep Limit Moist Field Tot/Dis QC cv/ ccv Analyte Name Result Error Tema нт мΒ LCS MS Surr Tune IC юv Analysis Method : 8260B Dilution: 1 1,4-Dichlorobenzene 4.63 ug/Kg U YES 2,2-Dichloropropane 4.63 ug/Kg U YES 2-Bulanone 23.2 U YÉS ug/Kg 2-Chlorololuene 4.63 ид/Кд U YES 2-Hexanone YES 11.6 U ug/Kg 4-Chlorotolue 4.63 ug/Kg V YES 4.63 4-Isopropyitoluene υ YES ug/Kg 4-Methyl-2-pentanone 11.6 ug/Kg U YES 18.5 YES Acetone ug/Kg J J Benzene 4.63 ug/Kg υ YES Bromobenzene 4.63 ug/Kg U YES Bromochloromethane 4,63 ug/Kg U YES Bromodichloromethane 4.63 ug/Kg υ YES Bromoform 4.63 U YES ug/Kg Bromomethane 4.63 ug/Kg U YES Carbon disulfide 4.63 ug/Kg υ YES IJJ UJ Carbon tetrachloride 4.63 ug/Kg υ YES Chlorobenzene 4.63 υ YES ug/Kg Unioroethane 4.63 ug/Kg U YES Chloroform 4.63 YES ug/Kg υ Chloromethane 4.63 ug/Kg U YES cig-1.2-Dichloroethene 4.63 Û. YES ug/Kg 4.63 υ YES cis-1,3-Dichloropropene ug/Kg Dibromochloromelhane 4.63 ug/Kg υ YES

Dichlorodilluoromethane 4.53 ug/Kg U YES ÷ Project Number and Name: 11-032E - 11-032E Carroll Agent Orange Library Used: CampCarroll Page 119 of 288 Report Date: 9/6/2011 09:53

ADR 8.2

Dibromomethane

* 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

υ YES

ug/Kg

4.63

Client Sample ID : E11-141-S1

Sample Date : 07/16/2011 Lab Sample ID: 31101889015

Reviewed By / Date :

Approved By / Date :

Lab ID : SGSW

Sample Matrix : SO

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quat	Rep Res	Overali Quai*	Temp	нт	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	IC	icv	CV/
Analysis Method : 8260B					Dilutio		•													
Ethyl Benzene	4.63	1	ug/Kg	υ	YES				1	1	1								1	1
Hexachlorobutadiene	4.63		ug/Kg	U	YES							1					[[
(sopropylbenzene (Cumene)	4.63	1	ug/Kg	U	YES				[1								1
m,p-Xylene	9.27		ug/Kg	U	YES				1										1	1
Methyl iodide	4.63		ug/Kg	U	YES						{					•••••			1	1
Melhylene chloride	18,5		ug/Kg	U	YES	L L L				UJ					1					1
Naphthalene	4.63		ug/Kg	U	YES										1				1	1
n-Butylbenzene	4.63		ug/Kg	U	YES	1														1
n-Propylbenzene	4.63		ug/Kg	U	YES	}			1				• • • • • • • • • •					•••••		1
o-Xylene	4.63		ug/Kg	υ	YES								••••			• • • • • • • •			1	1
sec-Butylbenzene	4.63		ug/Kg	U	YES	ļ							•••••	••••••		•••••			1	1
Styrene	4.63		ug/Kg	U	YES														1	1
tert-Butyi methyl ether (MTBE)	4.63		ug/Kg	U	YES	UJ	 1			UJ]	1
tert-Butylbenzene	4,63		ug/Kg	U	YES	i							·						1	1
Tetrachloroethene	4.63		ug/Kg	U	YES										i				 	1
Toiuene	4.63		ug/Kg	υ	YES	·i [i			·····									1	:
rans-1,2-Dichloroethene	4.63		ug/Kg	U	YES	UJ	·····		·····	UJ									1	
rans-1,3-Dichloropropene	4.63		ug/Kg	U	YES]		Ì							1	1
rans 1,4 Dichloro 2 butono	23.2		ug/Kg	U	YES	1	· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·	······			1					1	1
i nchioroethene	4.63		ug/kg	υ	YLU		·····			· · · · · · · · · · · · · · · · · · ·			1				1			1
Frichbroftwarumethane	4.63		иу/Ку	U	YES		i			······		i								
Vinyl chloride	4.63	·····	ug/Kg	U ;	YES :					·····	······								1	1
Analysis Method : 8270D					Dilutio	n:1														
1,2,4-Trichlorobenzene	355		ug/Kg	U	YES		1		1		1	1	J	1	1		ļ			1
1,2-Dichlorobenzene	355		ug/Kg	U	YES		i. 		 	1	1	1	1				1		1	
I,3 Dichlerobanzono	366		ug/Kg	U	YES	i	i. 		i	! 		i	i 	i	1		 (
,4-Dichlorobenzene	355		ug/Kg	υ	YES		i 	, 		í			·····	i I	i	······	 			
roject Number and Name: 11-032E												<u></u>	<u></u>		· · · · · · · · · · ·		· · · · · · · · · · · · · ·			

Lab Report Batch : 31101889

Analysis Type: RES

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

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a.,

Client Sample ID : E11-141-S1 Sample Date : 07/16/2011 Lab Report Batch : 31101889 Analysis Type: RES

Lab ID : SGSW Sample Matrix : SO

Lab Sample ID: 31101889015 Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quai	Rep Res	Overali Qual*	Temp	нт	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	tC	ICV	CV / CCV
Analysis Method : 8270D					Dilutio	on: 1						•••••								
2,4,5-Trichlorophenol	355		ug/Kg	U	YES		l			1		1	1		1 1		1		1	
2,4,6-Trichlorophenol	355		ug/Kg	υ	YES					1					1		I		[1
2,4-Dichlorophenol	365		ug/Kg	U	YES	Í			1]		1						1	I
2,4-Dimethylphenol	355		ug/Kg	U	YES	ĺ	1			ł		1	1						1	1
2,4-Dinitrololuene	355		ug/Kg	U	YES							1			1				1	
2,6-Dinitrololuene	355		ug/Kg	U	YES	1	ł												1	1
2-Chioronaphihaiene	355		ug/Kg	υ	YES	1					1		[;					1
2-Chlorophenol	355		ug/Kg	U	YES		1												1	1
2-Methylnaphthalene	355		ug/Kg	υ	YES		Í					}							1	Ì
2-Methylphenol	355		ug/Kg	υ	YES							;							I	1
2-Nitroaniline	355		ug/Kg	U	YES															1
2-Nilrophenoi	355		ug/Kg	U	YES														1	1
3 and/or 4-Melhylphenol	355		ug/Kg	U	YES	1											1		1	1
3-Nitroaniline	355		ug/Kg	U	YES		1													1
4-Bromophenyl phenyl elher	355		ug/Kg	บ	YES		1)											[1
4-Chioro-3-methylphenol	355		ug/Kg	U ;	YES	1													1	I
4-Chloroaniline	355		ug/Kg	U	YES		1												1	1
4-Chlorophenyl phenyl ether	355		ug/Kg	U	YES		1	1	1								1		1	1
4 Nitroaniline	355		ug/Kg	υį	YES		1	I		1			i							1
4 Nitrophonol	365		ug/Kg	U	YEC		1				1									1
Acenaphthene	355	Í	ug/Kg	υí	YES	1			1		1		1						1	
Acenaphlhylene	355		ug/Kg	U	YES	1		1		į			1				1		1	ł
Anthracene	355		ug/Kg	υ	YES			1											I	1
Benzo(a)anthracene	355	1	ug/Kg	U	YES							1				1				1
Benzo(a)pyrene	355		ug/Kg	U	YES	1			1			1								
Bonzo(b)fluoranthono	366		ug/Kg	U	YEC	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 09:53 Page 121 of 200

* 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 : E11-141-S1

Lab Sample ID: 31101889015

Sample Date : 07/16/2011

Lab Report Batch : 31101889 Analysis Type: RES

Lab ID : SGSW Sample Matrix : SO

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Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Rés	Overali Qual*	Temp	нт	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8270D	••••••••••				Diluti	· · · · · · · · · · · · · · · · · · ·														
Benzo(g.h.i)perylene	355		ug/Kg	υ	YES				1	1	1	1	1	1	1		1	l		1
Benzo(k)fluoranthene	355		ug/Kg	υ	YES							· <i></i>	: 		1				1	1
Bis(2-Chloroethoxy)methane	355		ug/Kg	U	YES				[` 	` 							1
Bis(2-Chioroethyl)elher	355		ug/Kg	U	YES					1			1						1	1
Bis(2-Chloroisopropyl)ether	355		ug/Kg	U	YES	1					1									1
Bis(2-Ethylhexyl)phthalate	355		ug/Kg	U	YES							1							1	1
Butyl benzyl phihalale	355		ug/Kg	Ų	YES												1		1	1
Chrysene	355		ug/Kg	U	YES														1	
Dibenz(a,h)anthracene	355		ug/Kg	U	YES		1				1			•••••						1
Dibenzofuran	355		ug/Kg	U	YES	1					}									1
Diethyl phthalate	355		ug/Kg	U.	YES	1													1	1
Dimethyl phthalate	355		ug/Kg	V	YES														1	[
Di-n-bulyl phthalate	355		ug/Kg	U	YES	1							}							1
Di-n-oclyl phthalate	355		ug/Kg	U	YES														{	1
Fluoranihene	355		ug/Kg	υ	YES			1											1	
Fluorene	355		ug/Kg	U	YES		1												1	
Hexachlorobenzene	355		ug/Kg	υ	YES	ł		I	1							1	1			1
Hexachlorobuladiene	355		ug/Kg	U }	YES	1		1			i }	1	I							1
Hoxachlorocyclopentadiene	366		ug/Kg	U	YES		1	1					1							1
lexachioroethane	355		ug/Kg	U	YEU	1	1	l	1						1				1	
ndeno(1,2,3-cd)pyrene	355		uy/Ky	U	YES	1		1					}				1			
sophorone	355		ug/Kg	U	YES		1	1	1	1	1		1	1		1	ļ			1
Naphthalene	355		ug/Kg	U	YES		1	1			1									1
Vitrobenzene	355		ug/Kg	U	YES ;	1	1	1												1
n-Nitrosodi-n-propylamine	355		ug/Kg	U	YES			I	1	1		1	1	1	1					1
cntachlorophenol	365	1	ug/Kg	υÌ	YEC	UJ	· · · · · · · · · · · · · · · · · · ·		1	UJ		1		1		1				1

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

Report Date: 9/0/2011 09:53

Client Sample ID : E11-141-S1	Lat	Report Batch : 31101889		Lab ID : SGS	N
Sample Date : 07/16/2011		Analysis Type: RES		Sample Matrix : SO	
Lab Sample ID: 31101889015					
Reviewed By / Date :		Approved B			
U	ncertainty/ Result L	ab Reg Overall	Lab	Rep Moist Field	CV/

Analyte Name	Result	Error	Units	Qual	Res	Qual*	Temp	нτ	MB	LCS	MS	Dup	Surr	Limit	Tot/Dis	QC	Tune	łC	ICV	ccv
Analysis Method : 8270D					Diluti	on: 1														
Phenanthrene	355		ug/Kg	υ	YES				1										1	1
Phenol	355		ug/Kg	U	YES						1				1					
Pyrene	355		ug/Kg	υ	YES									}						

Project Number and Name:	11-032E • 11-032E Carroll Agent Orange	Library Used:	CampCarroli	
ADR 8.2		Report Date: 0/6/2011 09:53		Page 123 of 288
* Overall result qualifier reflects summ	alion of qualifiers added during automated data review and any qualifiers added	manually for categories not assessed by automated data	a review	

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Client Sample ID : E11-141-S2 Lab Report Batch : 31101889 Lab ID : SGSW Sample Date : 07/16/2011 Analysis Type: RES Sample Matrix : SO Lab Sample ID: 31101889016

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overat Qual*	Temp	нτ	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV CC
Analysis Method : 6010C					Diluti													10	101	
Arsenic	4.16	i	mg/kg		YES	J	1	1			J	J			1					1
Barium	76.2		mg/kg		YES		 		1	1	: 	: 							: 	1
Cadmium	0.936		mg/kg		YES	U			ΙU	: 	: 	<u></u>				•••••			: 	· · · · · · · · · · · · · · · · · · ·
Chromium	4.04		mg/kg		YES	J	ļ			; 		J		••••••		••••				1
Lead	13.4	1	mg/kg		YES	J	{		1		J									1
Selenium	1.89		mg/kg	U	YES				1										1	1
Silver	0.944		mg/kg	U	YES						/-									1
Analysis Method : 7471B					Dilutio	9n: 1										•••••				
Mercury	0.00120		mg/kg	J	YES		1											••• • •••	••••••	1
Analysis Method : 8081					Dilutio	n: 1				·····										•••••
4,4'-DDD	2.15		ug/Kg	J	YES										1		1		1	1
4,4'-DDD	2.15		ug/Kg	J	YES			.	.				1							1
4,4'-DDE	7.98		ug/Kg	3	YES															1
4,4'-DDE	7.98		ug/Kg	J	YES						1				;					1
4,4°-DDT	18.0		ug/Kg		YES	J					J		1	1						1
4,4'-DDT	18.0		ug/Kg	}	YES	J					J									1
Aldrin	10.0		ug/Kg	U	YES												1			ĺ
Aldıin	10.0		uy/Kg	U	125									Ì	1		1		••••	1
alpha-BHC	10.0		ug/Kg	U	YES							1		Ì		ĺ				1
alpha BHC	10.0	1	ug/Kg	U į	YES]		1		Ì						1
aipha-Chlordane	10.0		ug/Kg	Q	YE\$									· · · · · · · · ·						1
alpha-Chiordane	10.0		ug/Kg	υ	YES	1					1	1	1	1		1				1
pela-BHC	10.0		ug/Kg	U	YES	Í	Í	1	1	i	· · · · ·	i i	1	1		l		<i>د</i>	••••••••••••••••••••••••••••••••••••••	1
peta-BHC	10.0		ug/Kg	U	YES		l			1		1	i	1						1
Chlordane	33.3		ug/Kg	υ	YES	}			·····	·····	 	 	i			·····		······	·i	1
Chlordane	33.3	i	ug/Kg	U j	YFS		 1	1				 		i. I		Ì	· 	: ا	: 	`••••• [
ielta-BHC	10.0	Î	ug/Kg	U	YES		· · · · · · · · · · · · · · · · · · ·					i I			·····	، ا	······ 	······	 	
roject Number and Name: 11-032E											*****	••••••				· · · · · ·	··	'		

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

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Client Sample ID : E11-141-S2 Lab Report Batch : 31101889 Lab ID : SGSW Sample Date : 07/16/2011 Analysis Type: RES Sample Matrix : SO Lab Sample ID: 31101889016 Reviewed By / Date : Approved By / Date : Uncertainty / Lab Qual Rep Res Rep Moist Limit Tot/Dis CV/ CCV Result Lab Dup Overall Quai Field LCS MS ICV Analyte Name Result Temp нт MS Sum ſC Error Units ac Tune Analysis Method : 8081 Dilution: 1 delta-BHC 10.0 ug/Kg υ YES Dieldrin 10.0 υ YES ug/Kg Dieldrin 10.0 U YES ug/Kg Endosulfan 10.0 ug/Kg U YES Endosulfan I 10.0 ug/Kg U YES Endosulfan II 10.0 υ YES ug/Kg Endosulfan li 10.0 ug/Kg U YES Endosulfan sulfate 10.0 U YES ug/Kg Endosulfan sulfale 10.0 ug/Kg U YES Endrin 10.0 υ YES ug/Kg Endrin 10,0 U YES ug/Kg 10.0 YES Endrin aldehyde ug/Kg υ Endrin aldehyde 10.0 υ YES ug/Kg 10.0 Endrin ketone ug/Kg Ð YES Endrin ketone 10.0 υ YES ug/Kg gamma-8HC (Lindane) 10.0 ug/Kg υ YES gamma-BHC (Lindane) 10.0 U YES ug/Kg gamma-Chlordane 10.0 ид/Кд ย YES

Heplauhiu 10.0 uý/Ký V YE3 10.0 YES Replachior u ug/Kg Heptachlor epoxide 10.0 U YES uq/Kq 10.0 YES Heptachlor epoxide ug/Kg υ υ YES Methoxychlor 10.0 ug/Kg YES Methoxychlor 10.0 ug/Kg U 33.5 υ YEO Toxaphene ug/Kg Project Number and Name: 11-032E - 11-032E Carroll Agent Orange Library Used: CampCarroll

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ADR 8.2

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

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Report Date: 9/0/2011 09:53

Client Sample ID : E11-141-S2 Lab Report Batch : 31101889 Lab ID : SGSW Sample Date : 07/16/2011 Analysis Type: RES Sample Matrix : SO Lab Sample ID: 31101889016 Reviewed By / Date : Approved By / Date : Result Units Lab Quai Rep Res Overall Quai* Lab Dup Rep Moist Limit Tot/Dis CV1 CCV Uncertainty / Field Analyte Name Result Error Temp нτ MB LCS MS Surr ac Tune ıс icv Analysis Method : 8081 Dilution: 1 Toxaphene 33.3 ug/Kg U YES Analysis Method : 8151 Dilution: 1 2,4,5 T 0.0166 mg/kg U YES 2,4,5-TP (Silvex) 0.0166 U YES mg/kg 2,4'-D 0.0166 mg/kg υ YES 2,4-DB 0.0166 mg/kg υ YES 0.0166 υ YES Dicamba mg/kg Analysis Method : 8260B Dilution: 1 1,1,1,2-Tetrachloroethane 4.59 ug/Kg υ YES 4.59 YES 1,1,1 Trichloroethane υ ug/Kg 1,1,2,2-Tetrachloroethan 4.59 ug/Kg υ YES 1,1,2-Trichloroethane 4,59 YES ug/Kg U 4.59 υ YES UJ UJ 1,1-Dichloroethane ug/Kg 1,1-Dichloroethene 4.59 ug/Kg υ YES IJJ υJ 4.59 U YES 1,1-Dichloropropene ug/Kg 1,2,3-Trichlorobenzene 4.59 ug/Kg ປ YES 1,2,3-Trichloropropane 4.59 U YES ug/Kg 1,2,4-Trichlorobenzene 4.59 ug/I(g Ų YLO 4.59 1.2.4-Trimethylbenzene U YES ug/Kg 1.2 Dibromo 3-chloropropar 27.6 ua/Ka Ų YEŞ 1.2-Dibromoethane 4.59 YES ug/Kg U. 1,2-Dichlorobenzene 4.59 ug/Kg υ YES 1.2-Dichloroethane 4.59 ΰ YES ид/Кд 1,2-Dichloropropane 4.59 U YES ug/Kg 1,3,5-Trimelhylbenzene 4.59 ug/Kg υ YES 1.3-Dichlorobenzene 4.59 ua/Ka U YES 1,3-Dichloropropane 4,59 ug/Kg υ YES Project Number and Name: 11-032E - 11-032E Carroll Agent Orange Library Used: CampCarroll Report Date: 9/0/2011 09:53 Page 126 of 288

ADR 8.2

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

Client Sample ID : E11-141-S2 Sample Date : 07/16/2011 Lab Report Batch : 31101889

Analysis Type: RES

Lab ID : SGSW Sample Matrix : SO

e.

Lab Sample ID: 31101889016

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual		Overail Qual*	Temp	нт	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Типе	IC	ICV	CV CC
Analysis Method : 8260B					Dilutio															
1,4-Dichlorobenzene	4.59		ug/Kg	U	YES		1		1	1		ì		1			1		1	
2,2-Dichloropropane	4.59		ug/Kg	υ	YES	1				1					1				1	1
2-Bulanone	23.0		ug/Kg	U	YES	[1		1				1				1	1
2-Chlorololuene	4.59		ug/Kg	U	YES							1							1	1
2-Нехаполе	11.5		ug/Kg	U	YES		1					[1	
4-Chlorotoluene	4.59		ug/Kg	U	YES	Í														1
4-Isopropyiloluene	4.59		ug/Kg	U	YES															1
4-Methyl-2-pentanone	11.5		ug/Kg	υ	YES	ĺ	ĺ								1				1	1
Acetone	7.19		ug/Kg	J	YES	J				J									1	1
Benzene	4.59		ug/Kg	U	YES	1	J													1
Bromobenzene	4.59		ug/Kg	U	YES															1
Bromochloromethane	4.59		ug/Kg	υ	YES		1												1	1
Bromodichloromethane	4.59		ug/Kg	U	YES	1							1				1			1
Bromoform	4.59		ug/Kg	U	YES		1	1									Í			1
Bromomethane	4,59		ug/Kg	υ	YES	. 1	1			I	1	1								1
Carbon disulfide	4.59		ug/Kg	U	YES	UJ				UJ		1								1
Carbon tetrachloride	4,59	i	ug/Kg	U	YES	1	1	ł				1	ļ			1			1	I
Chlorobenzene	4.59		ug/Kg	U	YES			1					1]	}	1	-			ł
Chloroothano	4.59		ug/Kg	U	YES	1	1	I		ſ	į									1
Jhloroform	4,59	;	ug/Kg	U ;	YLU	Ì		ł			ļ	1								I
Ohloromethane	4.59		uy/Ky	U	YE3				1		I	1	1							1
els-1,2-Dichioroethene	4,59		ug/Kg	U	YES :		1	1	1	į	İ	1]			1	1			1
is-1,3-Dichloropropene	4.59		ug/Kg	U	YES	1	I	1		ſ				1	Í					1
Dibromochloromelhane	4.59	1	ug/Kg	U	YES						-	1		1						1
Dibromomethane	4.59		ug/Kg	υ	YES		1	1	1			1	{						I	I
Dichlorodifluoromethane	4.59	1	ug/Kg	U	YEC :	1	1	1				1	1		1	1	1			

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

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

Client Sample ID : E11-141-S2 Sample Date : 07/16/2011

Lab Sample ID: 31101889016

Lab Report Batch : 31101889

Analysis Type: RES

Sample Matrix : SO

Lab ID : SGSW

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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	CCI CCI
Analysis Method : 8260B					Diluti	••••••														
Ethyl Benzene	4,59		ug/Kg	U	YES					1										1
Hexachlorobutadiene	4.59		ug/Kg	U	YES				1										1	1
isopropyibenzene (Cumene)	4.59		ug/Kg	U	YES						1								1	1
m,p-Xylene	9.19		ug/Kg	U	YES															[
Methyf lodide	4.59		ug/Kg	U	YES															1
Melhylene chloride	18.4		ug/Kg	U	YES	UJ				UJ						•••••••				1
Naphthalene	4.59		ug/Kg	U	YES											••••••			4	1
n-Bulyibenzene	4.59		ug/Kg	υ	YES	1			1											1
n-Propylbenzene	4.59		ug/Kg	U	YES	}														1
o-Xylene	4.59		ug/Kg	U	YES															1
sec-Butylbenzene	4.59		ug/Kg	U	YES												l			1
Styrene	4.59		ug/Kg	U	YES													• • • • • • • • • • • • • • • • • • • •		1
ert-Bulyl methyl ether (MTBE)	4.59		ug/Kg	Ų	YES	UJ				UJ									1	1
ert-Bulylbenzene	4.59		ug/Kg	U	YES						1						1			1
Fetrachloroethene	4.59		ug/Kg	U	YES															1
Гоіцеле	4.59		ug/Kg	U	YES		1					1							1	1
rans-1,2-Dichloroethene	4.59		ug/Kg	U	YES	UJ				IJ	 									1
rana 1,3 Diohioropropono	4.69		ug/Kg	υ	YES								1							1
rans-1,4-Dichloro-2-butene	23.0		ug/Kg	U	YES	1				1	1]	1							1
[richloroelhene	4 59		uŋ/Kg	0	YES	1	1			f	ĺ	1					}		[1
Trichlorofluoromelhane	4,59		ua/Ko	U	YES		1		1			1			1					
/inyl chloride	4.59		ug/Kg	U	YES		1	1	1	Ì		1	1		1	1				1
Analysis Method : 8270D					Dilutio	n: 1														
,2,4-Trichlorobenzene	347		ug/Kg	υ	YES	1				1	i					I	1	I		1
,2-Dichlorobenzene	347	ļ	ug/Kg	V	YES		1	1				1					i			
,3-Dichlorobenzene	347		ug/Kg	υį	YES		I		1			I		I	1					1
,4-Dichlorobenzene	347	1	ug/Kg	υ	YES			1					1			1	. 1			[
	E - 11-032E	Carroli Acen	t Orange								Ubr	ary Us		CampC	arrall.					

* 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

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Client Sample ID : E11-141-S2

Sample Date : 07/16/2011 Lab Sample ID: 31101889016

Lab Report Batch : 31101889 Analysis Type: RES

Lab ID : SGSW Sample Matrix : SO

i.

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overali Quai*	Temp	нт	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	icv	CV/ CCV
Analysis Method : 8270D	•••••••••••••••••••••••••••••••••••••••				Diluti															
2.4,5-Trichlorophenol	347		ug/Kg	U	YES						ļ	ļ	1		1	1			1	1
2,4,6-Trichlorophenol	347	1	ug/Kg	U	YES	: 1					[{							I	1
2,4-Dichlorophenol	347		ug/Kg	U	YES														1	1
2,4-Dimethylphenol	347		ug/Kg	ย	YES					1			1						1	1
2,4-Dinitrotoluene	347		ug/Kg	Ų	YES						1	ļ				1			1	
2,6-Dinitrotoluene	347		ug/Kg	Ų	YES														1	1
2-Chioronaphthalene	347		ug/Kg	υ	YES	ĺ	1												1	1
2-Chlorophenol	347		ug/Kg	υ	YES	1														1
2-Methylnaphthalene	347		ug/Kg	U	YES		İ												1	
2-Methylphenol	347		ug/Kg	U	YES]							1	
2-Nilroaniline	347		ug/Kg	U	YES															1
2-Nitrophenol	347		ug/Kg	U	YES	1											1			1
3 and/or 4-Methylphenol	347		ug/Kg	U	YES	Í													1	1
3-Nitroaniline	347		ug/Kg	υ	YES	1	Ì		1											1
4-Bromophenyl phenyl ether	347		ug/Kg	U	YES	1		1												1
4-Chloro-3-methylphenol	347		ug/Kg	U	YES	ł							}							1
4-Chloroaniline	347		ug/Kg	U	YES														1	
4-Chlorophenyi phenyi ether	347	:	ид/Кд	υ	YES	Ì	1		1											
4-Nămaniline	347	1	10/Kg	8	YES	1		1									1			
4-Nitrophenol	947		ug/Kg	v	YES			I		4			1							
Aconaphthono	317		ug/Kg	U	YES								1							
Acenaphthylene	347		ug/Kg	U	YES	1		1		i				1	1	1	· · · · ·			
Anthracene	347	ļ	ug/Kg	U	YES	1		1								1	1			
Benzo(a)anthracene	347	1	ug/Kg	U	YES		1	Ì		1			1				······			•••••
Benzo(a)pyrene	347	1	ug/Kg	U	YES		1		1	1			1			·····	······			- <i>-</i>
Benzo(b)fluoranthen#	347	1	ug/Kg	U I	YES	1		1			·····			i			·····			•••••

 Project Number and Name:
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 Carroll Agent Orange
 Library Used:
 CampCarroll

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

Client Sample ID : E11-141-S2

Sample Date : 07/16/2011 Lab Sample ID: 31101889016

Lab Report Batch : 31101889 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	Overati Qual*	Temp	нт	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	IC	icv	CV / CCV
Analysis Method : 8270D					Diluti	on: 1					,,-,-,-,-,-,-,-,-,-,-,-,-,-,-,-,-,									
Benzo(g.h.i)perylene	347		ug/Kg	U	YES				ł		1								1	1
Benzo(k)fluoranthene	347		ug/Kg	υ	YES	: Ì					1				1					I
Bis(2-Chloroethoxy)methane	347		ug/Kg	U	YES		1				1								1	1
Bis(2-Chloroethyl)ether	347		ug/Kg	U	YES							(1	
Bis(2-Chlorolsopropyt)elher	347		ид/Кд	U	YES	:				1										1
Bis(2-Ethylhexyl)phthalate	347		ug/Kg	υ	YES										1					1
Butyl benzyl phihalate	347		ug/Kg	U	YES		1				1									1
Chrysene	347		ug/Kg	U	YES						1								1	Ĩ
Dibenz(a,h)anthracene	347		ug/Kg	U	YES	1					{								1	
Dibenzofuran	347		ug/Kg	U	YES									•••••						1
Diethyl phthalate	347	ĺ	ug/Kg	V	YES	Ĩ	1						[Í		[1
Dimethyl phthalate	347		ug/Kg	U	YES						1		[1	1
Di-n-butyl phthalate	347		ug/Kg	υ	YES		1	1									1			1
Di-n-octyl phlhalate	347		ug/Kg	ម	YES		1						1				(1
Fluoranthene	347		ug/Kg	U	YES			1							1					1
Fluorene	347		ug/Kg	U	YES			1									1			
Hexachlorobenzene	347		ug/Kg	U	YES		1										1		1	1
Hexachtorobuladiene	347		ug/Kg	U	YES			Ì				1								1
Hexachlorocyclopentadiene	347		U0/K0	U į	YES	ĺ									1					1
i levachioroethane	347		ндЖд	0	YES		1	Ì	1			î							1	
Indeno(1,2,3-cd)pyrene	347		ug/Kg	U	YES		1	Ì					 							1
isophorone	347		ug/Kg	U	YES	1	1				1					i	·····			1
Naphihalene	347		ug/Kg	U	YES	1	l.	Í	İ			1	1				······			
Nitrobenzene	347	·····	ug/Kg	υ	YES	i 	¦- 	······		······	 	،۱ ا		: 	!		יי 			: [
n-Nitrosodi-n-propylamine	347		ug/Kg	U	YES		· · · · · · · · ·	······		·····	 	i		1	·····	····· \		· · · · · · · · · · · · · · · · · · ·		 I
Pentachiarapheool	347	Ì	10/Kg	0	YES	tET 1	·····!·					i	 	······		i	 I	· · · · · · · · · · · ·		· · · · · · ·

Project Number and Name: 11-032E - 11-032E Carroll Agent Orange Library Used: CampCarroll
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• Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

Client Sample ID : E11-141-S2			L	ab Re	port	Batch	:3110)1889								Lab	ID : SC	3SW		
Sample Date : 07/16/2011				An	alysi	s Type	RES							S	ample	e Mati	rix:SC)		
Lab Sample ID: 31101889016																				
Reviewed By / Date :							Арр	roved	d By /	Date :										
Anaiyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overail Quai*	Temp	нт	МВ	LCS	MS	Lab Dup	Surt	Rep Limit	Moist Tot/Dis	Fleid QC	Tune	IC	ICV	CV/ CCV

Analyte Name	Result	Error	Units	Quai	Res	Quar	Temp	111	MD	LUS	MO	Dup	Surr	Latent	100015	40	f n Be	10	10.4	007
Analysis Method : 8270D					Dilutio	э п: 1			-											
Phenanthrene	347		ug/Kg	U	YES					1				1						
Phenol	347		ug/Kg	U	YES		1						1							
Pyrene	347		ug/Kg	Ų	YES		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 09:53		Page 131 of 288
* Overall result qualifier reflects summa	tion of qualifiers added during automated data review and any qualifiers added manually for categories not asses	ed by automated data	review	

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Client Sample ID : E11-141-S3 Lab Report Batch : 31101889 Lab ID : SGSW Sample Date : 07/16/2011 Sample Matrix : SO Analysis Type: RES Lab Sample ID: 31101889017 Reviewed By / Date : Approved By / Date : CV / CCV Field Uncertainty / Error Lab Qual Overali Qual* Lab Dup Rep Moist Limit Tot/Dis Result Rep Res Temp 1C icv Analyte Name Result Units нт MB LCS MS Surr QC Tune Dilution: 1 Analysis Method : 6010C Arsenic 2.16 mg/kg YES J J J 72.7 YES Barium mg/kg Cadmium 0.740 mg/kg YES Ü U Chromium 5.04 mg/kg YES 3 7.37 mg/kg YES J Lead Selenium 2,05 YES mg/kg υ Ų YES Silver 1.03 mg/kg Analysis Method : 74718 Dilution: 1 Mercury 0.00364 YES mg/kg J Analysis Method : 8081 Dilution: 1 4,4'-DDD 10.8 ug/Kg υ YES 4,4'-DDD 10.8 υ YES ug/Kg 10.8 Ų YES 4,4'-DDE ug/Kg 4,4'-DDE 10.8 ug/Kg U YES 1.89 YES ŲĴ Ų 4,4'-0DT ug/Kg 4,4'-DDT 1,89 ug/Kg £ YES υJ υ J 10.8 υ YES Aldrin ug/Kg Aldrin 10.0 ug/itg υ YLU 10.8 YES Ú aloha-BHC ug/Kg alpha BHC 10.8 ua/Ka ΰ YES alpha-Chlord 10.8 υ YES ug/Kg alpha-Chlori 10.8 ug/Kg υ YES beta-BHC 10.8 YES ug/Kg U beta-8HC 10.8 ΰ YES ug/Kg YES Chlordane 36.0 ug/Kg u Chlordane 36,0 uq/Kq υ YES della-BHC 10.8 ug/Kg υ YES Library Used: Project Number and Name: 11-032E - 11-032E Carroll Agent Orange CampCarroli Page 132 of 288 Report Date: 9/6/2011 09:53 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 : E11-141-S3

Sample Date : 07/16/2011 Lab Sample ID: 31101889017

Analysis Type: RES

Lab Report Batch : 31101889

Reviewed By / Date :

Approved By / Date :

Lab ID : SGSW

Sample Matrix : SO

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quaí	Rep Res	Overati Qual*	Temp	нт	ΜΘ	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	IC	ICV	CV I CCV
Analysis Method : 8081					Dilutio	on: 1														
delfa-BHC	10.8		ug/Kg	U	YES	{	1		1	1			1						1	
Dieldrin	10.8		ug/Kg	U	YES		1													1
Dieldrin	10.8		ug/Kg	υ	YES				1		{	1								1
Endosulfan i	10.8		ug/Kg	U	YES					1	1	1							1	Î
Endosulfan I	10.8		ug/Kg	U	YES	1	1												1	1
Endosulfan li	10.8		ug/Kg	U	YES	}	1			l									1	
Endosullan II	10.8		ug/Kg	U	YES		l					1								1
Endosulfan sulfate	10.8		ug/Kg	υ	YES							1							1	1
Endosulfan sulfate	10.8	Í	ug/Kg	υ	YES]	(1	1
Endrin	10.8		ug/Kg	U	YES	1	1								j					1
Endrin	10.8		ug/Kg	V	YES	1	I								1					1
Endrin aldehyde	10.8		ug/Kg	U	YES							{				1	ļ		1	1
Endrin aldehyde	10.8	(ug/Kg	U	YES	1		l					ļ		1	[ļ		1	1
Endrin ketone	10.8		ug/Kg	U	YES									1	.		l			1
Endrin ketone	10.8	į	ug/Kg	U	YES					1						1				1
gamma-BHC (Lindane)	10.8	į	ug/Kg	υ	YES	1	1	1		-				ļ		1	1		1	1
gamma-BHC (Lindane)	10.8	į	ug/Kg	U	YES	1	1			ĺ			1	l	1		1			1
gamma-Chlordane	10.8		ау/Кр	U	YES		l						1		1				[1
gamma-Chlordane	10.8	ì	ug/Kg	U i	YES		[1	1	į				1			1			1
Heptachior	10 B	į	10/140	11	YES	1	1	1		Ì	Í	1		I		1	1			
Heptachlor	10.8		ug/Kg	U	YES	1	1		I			1	1	1	1	I	1			
Heptachlor epoxide	10.8		ug/Kg	U ;	YES			- i i		· · · ·	·		l		l		ĺ			1
Heptachlor epoxide	10.8		ид/Кд	U	YES	1		1		1	1	ł	1	1	i		I			1
Methoxychlor	10.8	1	ug/Kg	U	YES		1	1	1	1	ł			1		1				1
Methoxychlor	10.8		ug/Kg	U	YES		1					1				1	1			1
Toyaphene	36.0	1	ug/Kg	u 3	YES			1	1			I	1							1

Project Number and Name:	11-032E - 11-032E Carroll Agent Orange	Library Used:	CampCarroll
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Client Sample ID : E11-141-S3

Sample Date : 07/16/2011 Lab Sample ID: 31101889017

Lab ID : SGSW

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Sample Matrix : SO

Lab Report Batch : 31101889

Analysis Type: RES

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quai	Rep Res	Over: Qua	all * Temp	нт	мв	LCS	MS	Lab Dup	Surr	Rep Límit	Moist Tot/Dis		Типе	IC	ICV	CV / CCV
Analysis Method : 8081					Diluti	on: 1				••••••••••				••••••						•••••
Toxaphene	36.0		ug/Kg	U	YES	1	1			1	Į	ļ	1	[1	1
Analysis Method : 8151					Diluti	on: 1								•••••						
2,4,5-T	0.0173		mg/kg	υ	YES	-	1		1	[1		1				1		1	
2,4,5-TP (Silvex)	0.0173		mg/kg	u	YES		}			1	1						1		1	1
2,4'-D	0.0173		mg/kg	υ	YES	1			}		1		1				1		1	1
2,4-DB	0.0173		mg/kg	υ	YES	1	1							• • • • • • • • • •					1	1
Dicamba	0.0173		mg/kg	U	YES	1	1			 		·							1	:
Analysis Method : 8260B				• • • • • • • • • •	Diluti	on: 1					·····	•••••							·····	·
1,1,1,2-Tetrachloroelhane	4.40		ug/Kg	U	YES	:				1	!	1							1	1
1,1,1-Trichloroethane	4.40		ug/Kg	U	YES														1	
1,1,2,2-Teirachloroethane	4.40		ug/Kg	U	YES		1			1					1				1	:
1,1,2-Trichloroelhane	4.40		ug/Kg	U	YES						1				i				1	
1,1-Dichloroethane	4.40		ug/Kg	U	YES	ູ່ມູ	1			UJ			1		1]	: F
1,1-Dichloroethene	4.40		ug/Kg	U	YES	UJ	i İ			ω									1	
,1-Dichlaropropene	4.40		ug/Kg	U	YES				••••		[••••••					1
1,2,3-Trichlorobenzene	4.40		ug/Kg	υ	YES		i I	1				1	·i	· · · · · · · · · · · · · · · · · · ·			·····	•••••		
1,2,3-Trichloropropane	4.40		ug/Kg	U	YES			·····				·······	·····				······		:: 	
1,2,4-1 nchlorobenzene	4.48		uý/Ky	U	YE3		1					······	·i	·		·i				
,2,4-Trimethylbenzene	4.40		ug/Ko	U	YES		i i	1			••••••			·i		·i		******		
.2-Dibromo-3-chloropropane	26.4		uç/Kç	u	YES		1	Î				······		·!	······				/! 	
.2-Dibromoethane	4 40		Ug/Kg	U I	YFS		i i					·······	i	·i	'. 	·····				
,2-Dichlorobenzene	4.40		ug/Kg	U	YES		1	·					i	·i	······	·····	 		1	
,2-Dichloroethane	4.40		ug/Kg	U	YES		1 1	i	4	Í	i	i		i		i	ļ			
,2-Dichloropropane	4.40		ug/Kg	U	YES	•••••	i i	·····	·····	·········· 	······	· · · · · · · · · · · · · · · · · · ·	 I		·····	······	·······		' <i>-</i>	•••••
,3,5-Trimethylbenzene	4.40		ug/Kg	U	YES		1		! 	··	·i	:i 		! ا	!. 	<u>؛</u> ا	 ا			••••••
,3-Dichlorobenzene	4,40		uo/Ko	U	YES		1		·/	······		 	······	·····	·····:	······	'		······	••••••
,3-Dichloropropane	4.40		ug/Kg	u i	YES			i	 		 I	·····;	·····	·····!	·····	·····	 1		·····!	

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

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Roport Dato: 9/6/2011 00:63

Lab ID : SGSW Client Sample ID : E11-141-S3 Lab Report Batch : 31101889 Sample Date : 07/16/2011 Analysis Type: RES Sample Matrix : SO Lab Sample ID: 31101889017 Reviewed By / Date : Approved By / Date : Uncertainty / Error Result Units Rep Moist Field Limit Tot/Dis QC Lab Qual Rep Res Overall Qual* Lab Dup CV/ CCV ιcv Analyte Name Result Temp нt MB LCS MS Surr Tune IC

Analysis Method : 8260	B			Dilutio	n: 1														
1,4-Dichlorobenzene	4.40	ug/Kg	U	YES				1	[1		1		1		1	}	1	
2,2-Dichloropropane	4.40	ug/Kg	U	YES		1			1	1	1	1	1	1	1	1			1
2-Butanone	22.0	ug/Kg	U	YES	1				1			1	1	1	1	1			1
2-Chlorotoluene	4.40	ug/Kg	U	YES										1	ţ		ļ		
2-Hexanone	11.0	ug/Kg	U	YES						1	1	1		1		1	1	1	1
4-Chlorololuene	4.40	ug/Kg	U	YES				1	1	1	1	1	i	1		1		1	1
4-Isopropylloluene	4.40	ug/Kg	U	YES	1	1			1			1	l	1		1	l.	1	
4-Melhyl-2-pentanone	11.0	ug/Kg	U	YES					1			1	1		1	1	1	1	
Acetone	21.6	ug/Kg	J	YES	J				J		1			1	1		Į	1	
Benzene	4.40	ug/Kg	U	YES	i					1	1	1		1		1	1	1	
Bromobenzene	4.40	ug/Kg	U	YES	ł	1		I		1	ł	1	ł	1	1	1	1	1	
Bromochloromethane	4.40	ug/Kg	U	YES	ĺ			l				1			ļ	1			
Bromodichloromethane	4.40	ug/Kg	U	YES							1	1		1		1	1	1	
Bromoform	4.40	ug/Kg	U	YES								1	1			1		1	
Bromomethane	4.40	ug/Kg	U	YES	1				l				1						l
Carbon disulfide	4.40	ug/Kg	U	YES	ป3				UJ				1		1				
Carbon tetrachloride	4.40	ug/Kg	U	YES						1	}	1	1	1	1		1	1	
Chiorobenzene	4.40	ug/Kg	U	YES	I	1)			1		1	ł	1	1	1			
Chloroethase	4.40	ug/Kg	υ	YES	-	1	[1	1	1	1		1	l		1	
Chlorofonn	4.40	ug/Kg	U	YES			1					ł			1	1		1	
Chioromethane	4.40	ug/Kg	U	YES	1	1	1			{	ļ	1			{			1	
cis-1.2-Dichloroethene	4 40	ug/Kg	u	YES		1				i	1	1		1		1	;		
cis-1,3-Dichtoropropene	4.40	ug/Kg	U	YES	1	1						l	Į			1			
Dibromochloromethane	4.40	ug/Kg	U	YES			Î	ļ					}			1		1	
Dibromomethane	4.40	ug/Kg	U	YES		1	1						(ļ	
Dichlorodifiooromethane	4.40	ug/Kg	U	YES :	1	1	1			1	1	1]			1	

Project Number and Name: 11-032E - 11-032E Carroll Agent Orange
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Library Used: CampCarroll Report Date: 9/6/2011 09:53

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Client Sample ID : E11-141-S3 Lab Report Batch : 31101889 Lab ID : SGSW Sample Date : 07/16/2011 Analysis Type: RES Sample Matrix : SO Lab Sample ID: 31101889017 Reviewed By / Date : Approved By / Date : Uncertainty / Error Rep Molst Limit Tot/Dis CV/ CCV Lab Quai Lab Dup Result Rep Res Overall Qual* Field Analyte Name Temp ΗТ LCS MS ICV Result Units MB Surr QC Tune IC Analysis Method : 8260B Dilution: 1 Ethyl Benzene 4.40 ug/Kg υ YES Hexachlorobuladiene 4.40 υ ug/Kg YES Isopropyibenzene (Cumene 4.40 ug/Kg в YES m.p-Xylene 8.80 U YES ug/Ko Methyl iodide 4.40 ug/Kg υ YES Methylene chloride 1.80 ug/Kg YES J Naphthalene 4.40 ug/Kg υ YES n-Bulylbenzene 4.40 YES ug/Kg U n-Propy/benzene 4.40 U YES ug/Kg o-Xylene 4.40 U YES ug/Kg sec-Bulylbenzene 4.40 YES ug/Kg υ Slyrene 4.40 ug/Kg U YES 4.40 tert-Butyl methyl ether (MTBE) U YES ບປ υJ ug/Kg fert-Butylbenzene 4.40 ug/Kg υ YES Telrachioroethene 4.40 YES υ ug/Kg Toluene 4.40 ug/Kg υ YES trans-1,2-Dichloroelhene 4.40 IJJ ug/Kg υ YES υJ trans-1,3-Dichloropropene 4.40 ug/Kg υ YES trano 1,4-Dichlero-2-bulenc 22.0 ug/Kg U YEG Inchloroathene 4.40 υ YES uy/Ky Trichlorofluoromethane 4.40 YËS ug/Kg υ Vinyl chloride 4.40 V YES uq/Ka Analysis Method : 8270D Dilution 1,2,4-Trichlorobenzene 366 ug/Kg U YES ÷ 1,2-Dichlorobenzene 366 υ YES ug/Kg 1,3 Dishlorobonzona 366 U YEO ug/Kg 1,4-Dichlorobenzene 366 U ug/Kg YES Project Number and Name: 11-032E - 11-032E Carroll Agent Orange Library Used: CampCarroli AOR 0.2 Report Date: 9/6/2011 09:53 Page 135 of 288

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 : E11-141-S3 Lab Report Batch : 31101889 Lab ID : SGSW Sample Date : 07/16/2011 Sample Matrix : SO Analysis Type: RES Lab Sample ID: 31101889017 Reviewed By / Date : Approved By / Date : Uncertainty / Error Result Units Lab Dup Rep Moist Field Limit Tot/Dis QC Lab Quai Rep Res Overall Qual* CV / CCV ιcv Analyte Name Result Temp ΗТ ΜВ LCS MS Surr Turse IC Analysis Method : 8270D Dilution: 1

2,4,5-Trichlorophenol	366	ug/Kg	υ	YES
2,4,6-Trichlorophenol	366	ug/Kg	U	YES
2,4-Dichlorophenol	366	ug/Kg	U	YES
2.4-Dimethylphenol	366	ug/Kg	υ	YES
2.4-Dinitrotoluene	366	ug/Kg	υ	YES
2,6-Dinitrololuene	366	ug/Kg	U	YES
2-Chloronaphthalene	366	ug/Kg	U	YES I I I I I I I I I I I I I I
2-Chiorophenol	366	ug/Kg	U	YES
2-Methylnaphthalene	366	ug/Kg	U	YES
2-Methylphenol	366	ug/Kg	U	YES
2-Nitroaniline	366	ug/Kg	U	YES
2-Nilrophenol	366	ug/Kg	U	YES
3 and/or 4-Melhylphenci	366	ug/Kg	υ	YES
3-Nitroaniline	366	ug/Kg	U	YES
4-Bromophenyl phenyl ether	366	ug/Kg	U	YES
4-Chioro-3-melhylphenol	366	ug/Kg	υ	YES
4-Chloroaniline	366	ug/Kg	U	YES
4-Chlorophenyl phènyl eiher	366	ug/Kg	U	YES
4-Nitroaniline	366	ug/Kg	U	YES
4 Mitrophenol	366	ug/Kg	U	YES
Aconaphikono	366	ug/Kg	υ	YEO:
Acenaphthylene	366	ug/Kę	u	YES
Anlhracene	366	ug/Kg	U	YES I I I I I I I I I I I I I I
Benzo(a)anthracene	366	ug/Kg	U	YES
Benzo(a)pyrene	366	ug/Kg	υ	YES
Benzo(b)fluoranthene	366	ug/K.g	U	YES

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

 ADR 8.2
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 200

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

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Client Sample ID : E11-141-S3

Sample Date : 07/16/2011 Lab Sample ID: 31101889017

Lab Report Batch : 31101889 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	Overali Qual*		нт	MB	LCS	MS	i.ab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	IC	ICV	CV CC\
Analysis Method : 8270D					Diluti	on: 1						i								
Benzo(g.h.i)perylene	366		ug/Kg	U	YES				1				j	(1			1
Benzo(k)fluoranlhene	366		ug/Kg	U	YES				1							•••••				1
Bis(2-Chlorcethoxy)methane	366		ug/Kg	U	YES										1				1	1
Bis(2-Chloroethyl)ether	366		ug/Kg	υ	YES					1									1	1
Bis(2-Chloroisopropyl)elher	366		ug/Kg	v	YES						1								1	1
Bis(2-Ethylhexyl)phlhalate	366		ug/Kg	U	YES														/ 	1
Butyl benzyl phihalate	366		ug/Kg	υ	YES											•••••			1	1
Chrysene	366		ug/Kg	U	YES												· · · · · · · · · · · · · · · · · · ·	•••••	 	1
Dibenz(a,h)anlhracene	366		ug/Kg	U	YES														 	. <u>.</u>
Dibenzoluran	366		ug/Kg	U	YES	ſ								••••				•••••	 	1
Dielhyl phthalate	366		ug/Kg	U	YES										· · · · · · · · · · · · · · · · · · ·					1
Dimethyl phthalate	366		ug/Kg	U	YES				·····			! [ii		<i>.</i>				!	1
Di-n-bulyl phthalate	366		ug/Kg	U	YES	·····	·····					יי ן	·/	•••••					{	1
Di-n-oclyl phlhalale	366		ug/Kg	u	YES			······			·····	·	}				·			!
fluoranthene	366		ug/Kg	U	YES		••••••				: د. ا	؛,	· · · · · · · · · · · ·	•••••	·!	! 	······		/ 	[
luorene	366	•••••••••	ug/Kg	U	YES				······		······i			••••••						1
texachiorobenzene	366		ug/Kg	U	YES				····· · · · · · · · · · · · · · · · ·	······	·····	······	······			· · · · · · · · · · · · · · · · · · ·				!
texachiorobutaciene	500 1		uý/Ky	U	YE8		·····	· · · · · · · · ·	·····'	·····/	·····	••••••				· · · · · · · · · ·				! !
lexachlorocyclopenIadiene	366	·····	uq/Kq	Ų	YES			 	· · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	····· ····			!! 		·!	· · · · · · · · · · · · · · · · · · ·		}	!
lexachleroethane	366		ug/Kg	U I	YFS	·i				· · · · · · · · · · · · · · · · · · ·	 		·····/			·····¦				! 1
ndeno(1.2.3-cd)pyrene	366		ug/Kg	- 11	YES	·····/	· · · · · · · · · · · · · · · · · · ·	·····'		ئىيىيىنى ا	¦ إ	······!	· · · · · · · /	! 			بل ا		·	! [
sophorone	366		ug/Kg	U	YES	····· ··· · · · · · · · · · · · · · ·		''. 	······	·····/	1 1	!! 		! 	••••••	۲۴ ا	 ا			! F
aphilialene	366		ug/Kg	υż	YES	(1	1	1	1	1	1		اا ا	·····!.	اا 1	······		!! 	! I
litrobenzene	366	·····	ug/Kg		YES	••••••		۱۱ ا	·!	·····?		اا ا		······!	!-	·····!	••••••	·····!		! I
-Nitrosodi-n-propylamine	366	·····	ug/Kg	U I	YES	· · · · · · · · · · · · · · · · · · ·		'' 			······	!! ا	! 1	!	••••••••••••••••••••••••••••••••••••••	··· ··· ·		·····!		
Pentachiorophenol	366	·····	uo/Ko	U I	YES	U.I		!.	· · · · · · · · · · · · · · · · · · ·	10.1		!! 		!	•••••••••••••••••••••••••••••••••••••••	!	·····	·····		!

Project Number and Name:	11-032E - 11-032E Carroll Agent Orange	Library Usod:	CampCarroll	
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* Overall result qualifier reflects summ	nation of qualifiers added during automated data review and any qualifiers added manually for cates	pories not assessed by automated dat	a review	

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Client Sample ID : E11-141-S3 Sample Date : 07/16/2011			L		-	Batch s Type							S	Sample		ID:SO rix:SO				
Lab Sample ID: 31101889017																				
Reviewed By / Date :							App	rovec	By /	Date :										
									-											
Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quai	Rep Res	Overali Qual*		нт	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Типе	 IC	<i>i</i> cv	CV /
Analyte Name Analysis Method : 8270D					Rep Res Diluti	Qual*			MB	LCS	MS	-	Surr	Rep Limit	Moist Tot/Dis	Field QC	Типе	ю	icv	
					Res	Qual* on: 1			MB	LCS	MS	-	Surr	Rep Limit	Tot/Dis	QC	Типе	IC	1	ccv
Analysis Method : 8270D	Result		Units		Res Diluti	Qual* on: 1			MB	LCS	MS	-	Surr	Rep Limit	Tot/Dis	QC	Tune	IC	1	ccv

Project Number and Name:	11-032E - 11-032E Carroll Agent Orange	Library Used:	CampCarroll	
ADR 8.2		Report Date: 9/6/2011 09:53		Page 139 of 288
* Overall result qualifier reflects summa	tion of qualifiers added during automated data review and any qualifiers added manually fo	r categories not assessed by automated data	e review	

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Client Sample ID : E11-141-S4 Lab Report Batch : 31101889 Lab ID : SGSW Sample Date : 07/16/2011 Analysis Type: RES Sample Matrix : SO Lab Sample ID: 31101889018 Reviewed By / Date : Approved By / Date : Uncertainty / Error Result Lab Qual Rep Res Overall Quai* Lab Dup Rep Moist Limit Tot/Dis Field QC CV/ CCV Analyte Name Result Units Temp нτ ΜВ LCS MS Surr Tune IC ICV Analysis Method : 6010C Dilution: 1 Arsenic 1.53 mg/kg YES J J J Barium 78.8 YES mg/kg Cadmiun 0.704 mg/kg YES U Ų YES Chromiun 3.64 mg/kg J J Lead 5.47 mg/kg YES 0.470 Selenium YES mg/kg .4 Silver 1.01 YES mg/kg υ Dilution: 1 Analysis Method : 7471B Mercury 0.0195 mg/kg U YES Analysis Method : 8081 Dilution: 1 4,4'-DDD 9.94 ug/Kg υ YES 4,4'-DDD 9.94 YES υ ug/Kg 4,4'-DDE 9.94 ug/Kg υ YES 4,4'-DDE 9.94 YES ug/Kg U 4,4'-DDT 1,49 ug/Kg J YES θJ U 4,4'-DDT 1.49 YES UЭ ug/Kg J U Aldrin 9,94 ug/Kg υ YES Aldan 9.94 YES ug/Kg Ð alpha-BHC 9.94 ug/Kg U YES alpha-BHC 9.04 uy/Kg υ YEE alpha Chlorda 0.04 ug/Kg υ YEO alpha-Chlorda 9.94 ug/Kg U YES beta-BHC 9.94 YES ug/Kg υ beta-BHC 9,94 ug/Kg υ YES Chlordane 33.1 YES ug/Kg υ Chlordane 33.1 ug/Kg U YES della-BHC 9.94 υ YES ug/Kg Project Number and Name: 11-032E - 11-032E Carroll Agent Orange Library Used: CampCarroll ADR 0.2 Report Date: 9/6/2011 09:53 Page 140 of 288

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Client Sample ID : E11-141-S4

Sample Date : 07/16/2011 Lab Sample ID: 31101889018

Lab Report Batch : 31101889 Analysis Type: RES

Lab ID ; SGSW Sample Matrix : SO

Reviewed By / Date :

Approved By / Date :

Anaiyte Name	Result	Uncertainty / Error	Result Units	Lab Qual		Overall Quai*	Тетр	нт	мв	LCS	MS	Lab Dup	Surr		Moist Tot/Dis		Тиле	IC	ICV	CV / CCV
Analysis Method : 8081				******	Diluti	on:1								•••••						
delta-BHC	9.94		ug/Kg	υ	YES		1							}					1	1
Dieldrin	9.94		ug/Kg	U	YES	1		•••••	·			: 	· · · · · · · · · · · · · · · · · · ·		!! 			•••••		1
Dieldrin	9.94		ug/Kg	U	YES		·····	•••••					·····	· • • • • • • • • • • • • • • • • • • •				•••••	!	1
Endosulfan I	9.94		ug/Kg	υ	YES					•••••			 						! 	1
Endosulfan I	9.94		ug/Kg	U	YES		 			• • • • • • • • • • •					1 }	·····'				1
Endosulfan II	9.94		ug/Kg	U	YES			•••••		•••••	······ 				i			· · · · · · ·	!	1
Endosulfan II	9.94		ug/Kg	U	YES		1			· • • • • • • • • • • • • • • • • • • •	••••••••					·····!	·····	•••••	! 	¦
Endosulfan sulfate	9.94		ug/Kg	U	YES		·i							••••		••••••••••••••••••••••••••••••••••••••	·		<i>-</i>	1
Endosullan sullate	9.94		ug/Kg	U	YES		·····				•••••••					 				
Endrin	9.94		ug/Kg	U	YES		1	······	······	·i 	······ 	······								
Endrin	9.94		ug/Kg	U	YES	1			· · · · · · · · · · · · · · · · · · ·	·			'' 	·····!	1	؛؛ ا	 }		[1
Endrin aldehyde	9.94		ug/Kg	U	YES			······	·/	••••••	·····		'' 	·····	í. I	!		•••••	• • • • • • • • • •	!
Endrin aldehyde	9.94		ug/Kg	U	YES			1	········ 					······!	li 1	؛؛ ا	·····	••••••		1 1
Endrin ketone	9.94		ug/Kg	Ų	YES		·····i.	·····	i					! 	·····	·····		· · · · · · · · ·		!
Endrin kelone	9.94		ug/Kg	U	YES						·	·····	······				·····			/
gamma-BHC (Lindane)	9.94		ug/Kg	U	YES			 1	······			l	······'	· · · · · · · · · · · · · · · · · · ·	·····!	ی ا			·····	(1
gamma-BHC (Lindane)	9.94	1	ug/Kg	U	YES	·····	·····		·····	·····			·····		·····				••••••	/
gamma-Chiordane	0.04		ug/Kg	U	YLU		1	 1	i			۰۰۰۰۰۰ ا	····			!! 			·····!	1 L
gamma-Chiordane	9.94		ug/Kg	U	YES		! 	·····	·····	·····	· · · · · · · · ·	····· · · · · · · · · · · · · · · · ·		!!	·····!. ;	·····!	۰۰۰۰۰۰ ۱	!! 	!	:
Heptachlor	9 94		uq/Kq	U	YES	i i i		<u>ئ</u> ر	·····	······	·····	 	·····	! 		····· 1	· · · · · · · · · · · ·	! 		
Heplachlor	9.94		ug/Kg	U	YES		······i	 1	·····	·····		יייייייייי. 4	·····/· I	!		!				! /
Heptachlor epoxide	9.94		ug/Kg	U	YES		······. 	i	·····/· 		·····		·····/·	!		י ו	·····	!! 	!!	
Heptachlor epoxide	9.94		ug/Kg	U	YES		1	, i	i	i			'. }		l.	اا ا		! 	!	
Methoxychlor	9.94		ug/Kg	U	YES	i. 	······	·i		•••••••	 1		······	!		!. 	·····-	! 	!!	
Vielhoxychlor	9.94		ug/Kg	υ	YES	· · · · · · · · · · ·	·····	۰ آ		····/. 	··· ···		.د ا	t. 	!. 	····		·····		•• ••••
Foxaphene	33.1	·····	ug/Kg	U İ	YES	·· ··· · ··	·····	ייייייי ב			···· · ···		·····、1, 	¦	·····		·····		!	· · · · · · · ·

Project Number and Name: 11-032E - 11-032E Carroll Agent Orange Library Used: CampCarroll AUR 8.2 Report Date: 9/6/2011 09:53 Page 141 of 288 • 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

5244

Client Sample ID : E11-141-S4

Sample Date : 07/16/2011

Lab Report Batch : 31101889

Analysis Type: RES

Lab ID : SGSW Sample Matrix : SO

Lab Sample ID: 31101889018

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quai	Rep Res		il 'Temp	нт	мв	LCS	мз	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV /
Analysis Method : 8081					Dliuti	on:1														• • • • • • • • • • • • • • • • • • • •
Toxaphene	33.1	;	ug/Kg	U	YES	;			ł			Ì	1							1
Analysis Method : 8151					Diluti	on:1														
2,4,5-T	0.0167		mg/kg	υ	YES		1										-		1	
2,4,5-TP (Silvex)	0.0167	1	mg/kg	V	YES	-	i 1					1	1							1
2,4'-D	0.0167		mg/kg	υ	YES	-					1	1	1						}	1
2,4-DB	0.0167		mg/kg	υ	YES															1
Dicamba	0.0167		mg/kg	U	YES		;						[
Analysis Method : 8260B					Diluti	ол: 1													•••••	
1,1,1,2-Tetrachloroethane	4.50		ug/Kg	U	YES					1]	1			Ì				1	1
1,1,1-Trichloroelhane	4.50		ug/Kg	U	YES						1									
1,1,2,2-Tetrachloroethane	4.50		ug/Kg	U	YES		1 1													
1,1,2-Trichloroelhane	4.50		ug/Kg	υ	YES						1				1					
1,1-Dichloroelhane	4.50		ug/Kg	U	YES	UJ	1			UJ							l i			
1,1-Dichloroethene	4.50		ug/Kg	U	YES	UJ	[]	1		UJ										
1,1-Dichloropropene	4.50		ug/Kg	U	YES															
1,2,3-Trichlorobenzene	4.50		ug/Kg	υ	YES			1								•••••				
1,2,3-Trichloropropane	4.50		ug/Kg	U	YES										·····					•••••
.2,4-Trichlorobenzene	4 50	1	ug/Kg	ų	YES		1	1	······		••••			·····			· · · · · · · · · · · · · · ·	•••••		
1,2,4-Trimethylbenzene	4.50		ug/Kg	υ	YES									· · · · · · · · · · · · · · · · · · ·	·····					• • • • • • •
I,2-Dibromo-3-chloropropane	27.0		ug/Kg	U	YES]	1				•••••		······						
i,2-Dibromoethane	4.50		ug/Kg	U	YES		1	1							·····					••••
.2-Dichlorobenzene	4.50		ug/Kg	U	YES		1	1		••••••						••••••				•
,2-Dichloroethane	4.50		ug/Kg	υ	YES		1	·····		······				! 		••••••	 	•••••••		
.2-Dichioropropane	4.50		ug/Kg	U	YES		}	·····	· · · · · · · · · · · · · · · · · · ·	· /				!! 	······!·	······			······!	
,3,5-Trimelhylbenzene	4.50	· · · · · · · · · · · · · · · · · · ·	ug/Kg	U	YES			يند. ا	·'	·	à			 	'- 	!! ا			······	
,3-Dichlorobenzene	4.50	·····	ug/Kg	υ	YES	*******	:!- 	·····	····· /	• • • • • • • • • •	······¦	••••••		·!	······	·····!			·!	
.3-Dichloropropane	4.50		ug/Kg	U I	YES				! 		••••••	· · · · · · · · · · · · · · · · · · ·	1	!		¦	·····	·····!		•••••
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			aa			<i></i>	: <u>!</u> .	·	!			!	· · · · · · · · · · · · · · · · · · ·	!				!	!	

5245

Client Sample ID : E11-141-S4

Sample Date : 07/16/2011 Lab Sample ID: 31101889018

Lab Report Batch : 31101889 Analysis Type: RES

Lab ID : SGSW Sample Matrix : SO

Reviewed By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quai		Overali Qual*	Temp	нт	мв	LCS	MS	Lab Dup	Surr		Moist Tot/Dis		Tune	IC	ICV	cv /
Analysis Method : 8260B					Diluti															
1,4-Dichlorobenzene	4.50		ug/Kg	υ	YES					1			1						}	1
2,2-Dichloropropane	4.50		ug/Kg	υ	YES					İ			1							1
2-Bulanone	22.5		ug/Kg	ប	YES	{				 			 				` 			1
2-Chlorotoluene	4.50		ug/Kg	U	YES	:							: 				` 	`•••••• }	1	1
2-Hexanone	11.2		ug/Kg	U	YES											•••••	: 	 [1
4-Chlorotoluene	4.50		ug/Kg	U	YES												`~~~~~ 	` 	:	1
4-Isopropylloluene	4.50		ug/Kg	U	YES				•					•••••		•••••	: 	 		1
4-Melhyl-2-pentanone	11.2		ug/Kg	u	YES		·····	·····	•••••		••••••	••••••						 	//////////////////////////////////////	1
Acetone	45.0		ug/Kg	U	YES	UJ				υJ		•••••								1
Benzene	4.50		ug/Kg	U	YES	1									: 	*****				
Bromobenzene	4.50		ug/Kg	U	YES			·											/	1
Bromochloromethane	4.50		ug/Kg	U	YES						: إ	·······	·i							
Bromodichloromelhane	4.50		ug/Kg	υ	YES							1	1							:
Bromoform	4.50		ug/Kg	U	YES		i													¦
Bromomethane	4.50		ug/Kg	U	YES	}				·····		·i								
Carbon disulfide	4.50		ug/Kg	υ	YES	UJ				UJ										:
Carbon tetrachloride	4.50		ug/Kg	U	YES			·····			i	· · · · · · i		!		····· ····				:
Chlorobenzene	4.50	••••••	ug/Kg	U	YE8	1					·····									1
Chloroethane	4.50		ug/Kg	U	YES		·····	·····		· · · · · · · · · · · · · · · · · · ·	········ }	····· · · · · · ·	······ 				۱ إ			
Chloroform	4.50		ид/Кд	U	YES			······	· · · · · · · · · · · · · · · · · · ·		······	i	· · · · · · · · · · · · · · · · · · ·	····· /	·i		·····`		••••	:
Chloromethane	4.50		ug/Kg	U	YES		·····		••••••		·····i	،۱ ا	••••••	····		· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · ·	′ I
sis-1,2-Dichloroothene	4.50		ug/Kg	U	YES		· · · · · · · · · · · · · · · · · · ·	i	· · · · · · /			،،	· · · · · · · · · · · · · · · · · · ·				· · · · · · · · · · · · · · · · · · ·			
sis-1,3-Dichloropropene	4.50		ug/Kg	υ:	YES			····· †	· · · · · · · · · · · · · · · · · · ·			i		!	•••••					i
Dibromochloromethane	4.50		ug/Kg	υ	YES		· · · · · · · · · · · · · · · · · · ·	·····	· · · · · · · · · · · · · · · · · · ·		······	 	.ن ز	••	••••••	·•	··		····· · · · · · · · · · · · · · · · ·	
Dibromomelhane	4.50	·····	ug/Kg	U	YES			i i	؛؛ ا	 	 I	 1		! 	·····	۰۱ ۲	4 4 		!! ا	
Dichlorodifluoromethane	4.50		ug/Kg	U	YES		·····	 1	····· /					! 	·····/.	l 	4.0 - 0.0 1		······	

Project Number and Name:	11-032E - 11-032E Carroll Agent Orange	Library Used:	CampCarroll	
AUR 8.2		Report Date: 9/6/2011 09:53		Page 143 of 288
* Overall moult evalifier reflects sum	unling of ounlings odded during outersoled data so days and an excellence added as south, d			

on of qualifiers added during automated data review and any qualifiers added manually for calegories not assessed by automated data review

5246

Client Sample ID : E11-141-S4

Sample Date : 07/16/2011 Lab Sample ID: 31101889018

Lab Report Batch : 31101889 Analysis Type: RES

Lab ID : SGSW Sample Matrix : SO

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Quai*	Temp	нт	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	IC	ICV	CV CC\
Analysis Method : 8260B					Dilutio	on: 1														
Ethyl Benzene	4.50		ug/Kg	U	YES	ļ			l				[<u> </u>		<u> </u>	<u> </u>
Hexachlorobutadiene	4.50		ug/Kg	U	YES				l i	1	j .		ł		1		1	l	1	[
isopropylbenzena (Cumene)	4.50		ug/Kg	U	YES				1		1	1	1				I	ĺ	1	1
m,p-Xylene	9.00		ug/Kg	U	YES	1]			1		}	1						1	1
Methyl iodide	4.50		ug/Kg	U	YES												[1
Melhylene chloride	1.57		ug/Kg	J	YES	J				J										
Naphihalene	4.50		ug/Kg	υ	YES												1			1
n-Bulybenzene	4.50		ug/Kg	U	YES				1		1	{								
a-Propylbenzene	4.50		ug/Kg	U	YES							}							1	1
o-Xylene	4.50		ug/Kg	U	YES	1				1									1	1
sec-Bulylbenzene	4.50	1	ug/Kg	U	YES	1										•••••				1
Styrene	4.50		ug/Kg	U	YES		; 												/ 	
ert-Butyl methyl ether (MTBE)	4.50		ug/Kg	U	YES	UJ	i	•••••		UJ	(<u>-</u>
erl-Bulyibenzene	4.50		ug/Kg	U	YES	 	·····		•••••										<u>.</u> 	
fetrachioroethene	4.50		ug/Kg	U	YES		؛؛ 										··			
Toluene	4.50		ug/Kg	U	YES	 	······	·'			1									
rans-1,2-Dichloroethene	4.50		ug/Kg	U	YES			·····	••••••	ບມ									/	 I
rans-1,3-Dicbloropropene	4 50		ug/Kg	U	YES		·····i	'' 		• • • • • • • • • •						••••••			! 1	!
rans-1,4-Dichloro-2-butene	22.5	·····	ug/Kg	U	YES) 	· · · · · · · · · · · ·			•••••										!
richloroethene	4.50		ug/Kg	U	YES	••••••				. <i></i>				•••••••	••••••				*••••• 	
richlorofluoromethane	4.50	·····	ug/Kg	U	YES	i	·····	·····'							•••••••					
/inyl chloride	4.50	1	ug/Kg	U	YES			ئىيى ا						····· · · · · · · · · · · · · · · · ·		·····	'' 		/	<i></i>
Analysis Method : 8270D		••••••			Dilutio											•••••••		•••••	h	
,2,4-Trichlorobenzene	345		ug/Kg	υİ	YES			1					}						1	<u></u>
2-Dichlorobenzene	345	·····	ug/Kg	U	YES	·····	·····!·		••••••••••••••••••••••••••••••••••••••		؛ ا			!!	!! }	!! ا				
,3-Dichlorobenzene	345	·····	ug/Kg	U	YES	······	·····!·		<i>ل</i> ــــ	·····!	! ا		·/	l 						
.4-Dichlorobenzene	345		ug/Kg	Ū	YES	-	1	للمت ا	لــــــــــــــــــــــــــــــــــــ		••••••	••••••		ل	••••••••••	ا،، ا	۸ ا	• • • • • • • •	/! 	

* 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 : E11-141-S4

Sample Date : 07/16/2011 Lab Sample ID: 31101889018

Lab Report Batch : 31101889 Analysis Type: RES

Lab ID : SGSW Sample Matrix : SO

Reviewed By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quai	Rep Res	Overail Qual*	Temp	нт	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	ю	ICV	CV / CCV
Analysis Method : 8270D					Diluti															
2,4,5-Trichlorophenol	345		ug/Kg	U	YES						}			i						1
2,4,6-Trichlorophenol	345		ug/Kg	U	YES					ŀ			:				: [` <i>-</i>	[1
2,4-Dichlorophenoi	345		ug/Kg	U	YES	:				/ 			1	: 	[1
2,4-Dimethylphenol	345		ug/Kg	U	YES		·			4			1	1					1	1
2,4-Dinitrotoluene	345		ug/Kg	U	YES					1		\ {			1			 	1	1
2,6-Dinitrololuene	345		ug/Kg	υ	YES					/ 	: }	\ 						• • • • • • • • • •	1	1
2-Chioronaphthalene	345		ug/Kg	U	YES	;					; }	 	: 						 	1
2-Chlorophenol	345		ug/Kg	U	YES	:					 	: 	: 				·			1
2-Methylnaphthalene	345		ug/Kg	U	YES									••••• 		•••••	 		: 	1
2-Methylphenol	345	ĺ	ug/Kg	U	YES							1						•••••	 	
2-Nitroaniline	345		ug/Kg	υ	YES							`` 		•••••			 		1	1
2-Nilrophenol	345		ug/Kg	U	YES	1		·i	•••••									• • • • • • • • • •		1
3 and/or 4-Methylphenol	345		ug/Kg	U	YES		······'	······			••••••					•••••		•••••	/	1
3-Nitroaniline	345		ug/Kg	U	YES	:	·····	·'	•••••					•••••					1	
4-Bromophenyl phenyl ether	345		ug/Kg	U	YES		·····; 	······												<u></u>
4-Chloro-3-methylphenol	345		ug/Kg	U	YES	1	 						· · · · · · · · · · · · · · · · · · ·							
4-Chloroaniline	345	•••••	ug/Kg	U	YES		····i	· · · · · · · · ·												
I-Chlorophenyl phenyl ether	346		ug/Kg	U	YES		······	· ·								····· ··· ·	· · · · · · · · · · · · · · · · · · ·			
I-Nitroaniline	345	••••••	ug/Kg	U	YES		·····	1			·····					· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · ·		[
I-Nitrophenol	345		ug/Kg	U I	YFS		·····	i		•••••	••••••••					·····	·			:
Acenaphihene	345	1	uq/Kq	υ	YES	1	1				••••••	······				·····	· · · · · · · · · · · · · · · · · · ·			:
Acenephthylene	345		ug/Kg	U	YES			·····					· · · · · · · · · · · · · · · · · · ·				· · · · · · · · · · · · · · · · · · ·			
Anthracene	345		ug/Kg	U)	YES		1			····/	 		· · · · · · · · · · · · · · · · · · ·			······				1
Jenzo(a)anthracene	345		ug/Kg	U	YES		1	 1	'	· · · · · · · · · · · · · · · · · · ·	••••••••	·!	: ا	·····i	·	 	 I			
Senzo(a)pyrene	345		ug/Kg	U	YES	1		····· .	· · · · · · · ·		·····		·····/	·····		·····				
Senzo(b)fluoranthene	345	·····	ug/Kg	U	YES		1	יייייי ו	·····!	·····/	۰۰۰۰۰۰ ا	اا ا	/ا ا	!!	! 1	! 				 I

Project Number and Name:	11-032E - 11-032E Carroll Agent Orange	Library Used:	CampCarroll	
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* Ouerall result augifier refinale sum	والمرجب والمراجب والمراجب والمتحد والمرجب والمتحافظ والمركز المراجع المراجع والمراجع والمراجع والمراجع			

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

52.48

Client Sample ID : E11-141-S4

Sample Date : 07/16/2011 Lab Sample ID: 31101889018

Lab Report Batch : 31101889 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 Quai*	Temp	អរ	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	ıc	icv	CV / CCV
Analysis Method : 8270D					Diluti	on: 1		•••••												
Benzo(g,h,i)perylene	345		ug/Kg	U	YES				1	}			-							1
Benzo(k)fluoranthene	345		ug/Kg	υ	YES															
Bis(2-Chloroethoxy)melhane	345		ug/Kg	U	YES						1									
Bis(2-Chloroethyl)ether	345		ug/Kg	U	YES						1								1	1
Bis(2-Chloroisopropyl)ether	345		ug/Kg	U	YES															1
Bis(2-Ethylhexyl)phthalate	34.4		ug/Kg	J	YES	1			1											1
Bulyi benzyi phthalate	345		ug/Kg	υ	YES			**												
Chrysene	345		ug/Kg	Ы	YES												}			
Dibenz(a,h)anthracene	345		ug/Kg	U	YES											••••••				
Dibenzofuran	345		ug/Kg	U	YES						}				ĺ					
Diethyl phihalate	345		ug/Kg	U	YES	}	1													1
Dimethyl phthalate	345		ug/Kg	U	YES							1					1		••••••	
Di-n-butyl phthalate	345		ug/Kg	U	YES]												•••••	
Di-n-octyl phthalate	345	1	ug/Kg	U	YES		ĺ												•••••	
Fluoranthene	345		ug/Kg	U	YES														•••••	
Fluorene	345		ug/Kg	U	YES		i										1			
Hexachlorobenzene	345		ug/Kg	U	YES	1									1		1			
Hexachlorobuladiene	345	1	ug/Kg	U	YES	1					[1		
Hexachlorocyclopenladiene	345	·····	uo/Ko	V	YES	1	1	1								1				
Hexachlorcelhane	345	·····	ug/Kg	U	YFS			1									 			
Indeno(1,2,3-cd)pyrene	345	ĺ	ug/Kg	U	YES		1		1			· · · · · · · · · · · · · · · · · · ·	:	1				· · · · · · · · · · · · · · · · · · ·		
isophorone	345	1	ug/Kg	υ	YES						1	1	í			······				
Naphihalene	345		ug/Kg	U	YES	į	i	Í	1				i	i	i	i		i		ŕ
Nitrobenzene	345		ug/Kg	U	YES .			1	·····/		······ 	····· ·		: ا		1		·····'		
n-Nitrosodi-n-propylamine	345		ug/Kg	υ	YES	i	i	, I	·····/		····· ····	····· · · · · · · · · · · · · · · · ·	······ 	i		· · · · · · ·		· · · · · · · · · · · · · · · · · · ·		
Pentachiorophenol	345	·····	ug/Kg	U I	YFS	U.I				Ul	1	1					 I	••••••••	· · · · · · · · · · · · · · · · · · ·	•••••

Project Number and Name:	11-032E - 11-032E Carroll Agent Orange	Library Used:	CampCarroll	
ADR 8.2		Report Date: 9/6/2011 09:53		Page 146 of 288
بمربح والمعامد ومكالمريم المعمد المعمرين	and the second second stands at the second stands of the second stands of the second stands of the second stand			

5249

345

ug/Kg

U YES

Pyrene

Client Sample ID : E11-141-S4 Lab Report Batch : 31101889 Lab ID : SGSW Sample Date : 07/16/2011 Analysis Type: RES Sample Matrix : SO Lab Sample ID: 31101889018 Reviewed By / Date : Approved By / Date : Uncertainty / Error Result Units Lab Qual Rep Res Overalí Qual* Lab Dup Rep Molst Field Limit Tot/Dis QC CV / CCV Analyte Name Result Temp ΗŦ ΜВ LCS MS Surr Tune IC **ICV** Analysis Method : 8270D Dilution: 1 Phenanlhrene 345 ug/Kg υ YES 345 U Phenol ug/Kg YES

1

Project Number and Name:	11-032E - 11-032E Carroll Agent Orange	Library Used:	CampCarroll
ADR 8.2		Report Date: 9/6/2011 09:53	Page 147 of 286
* Overall result qualifier reflects summ	ation of qualifiers added during automated data review	and any qualifiers added manually for categories not assessed by automated data	a review

Client Sample ID : E11-142-S1 Lab Report Batch : 31101889 Lab ID : SGSW Sample Date : 07/16/2011 Analysis Type: RES Sample Matrix : SO Lab Sample ID: 31101889035 Reviewed By / Date : Approved By / Date : Lab Dup cv*i* ccv Uncertainty / Resul Units Lab Qual Rep Res Overali Qual* Rep Moist Limit Tot/Dis Field Analyte Name Result LCS MS IC ICV Error Temp нт MB Surr QC Типе Analysis Method : 6010C Dilution: 1 Arsenic 3.93 mg/kg YES Barium 92.6 YES mg/kg Cadmium 1.11 mg/kg YES U υ Chromiun 10.0 YES mg/kg Lead Selenium 14.0 mg/kg YES 0.550 YES mg/kg Silver 1.14 mg/kg U YES Analysis Method : 7471B Dilution: Mercury 0.00260 mg/kg J YES Analysis Method : 8081 Dilution: 1 4,4'-DDD 10.8 ug/Kg υ YES 4,4'-DDD 10.8 υ YES ug/Kg 4.4'-DDE 2.09 ug/Kg .1 YES 4,4'-DDE 2.09 YES ug/Kg 4.4'-DDT 2.22 ug/Kg YES U υ 4,4'-DDT YES 2.22 U ug/Kg J U Aldrin 10.8 ug/Kg U YES Aldrin 10.8 YES U ug/Kg alpha-BHC 10.8 ug/Kg ų YES alpha-BHC 10,8 ug/Kg υ YES alpha-Chlorda 10.8 u YES ug/Kg alpha Chiordan 10.8 YES ug/Kg υ beta-BHC 10.8 υ YES ug/Kg bota-BHC 10.8 ug/Kg υ YES Chlordane 35.9 ug/Kg U YES Chlordane 35.9 ug/Kg U YES delta-BHC 10.8 υ YES ug/Kg Project Number and Name: 11-032E - 11-032E Carroll Agent Orange Library Used: CampCarroll ADR 8.2 Report Date: 9/6/2011 09:53 Page 148 of 288

* 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 : E11-142-S1

Sample Date : 07/16/2011 Lab Sample ID: 31101889035 Lab Report Batch : 31101889 Analysis Type: RES

Lab ID : SGSW Sample Matrix : SO

1

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	н۳	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	IC	юv	CV CC
Analysis Method : 8081					Dilutio	on: 1														
delta-BHC	10.8		ug/Kg	U	YES								1		1				1	1
Dieldrin	10.8		ug/Kg	υ	YES	1							1		l i		[I
Dieldrin	10.8		ug/Kg	U	YES							1					i		1	
Endosulfan I	10.8		ug/Kg	U	YES							}							1	
Endosulfan i	10.8		ug/Kg	U	YES										1					1
Endosulfan II	10.8		ug/Kg	U	YES		1												1	1
Endosulfan II	10.8		ug/Kg	υ	YES														1	1
Endosulfan sulfate	10.8		ug/Kg	υ	YES		1													1
Endosulfan sulfate	10.8	1	ug/Kg	U	YES												(1
Endrin	10.8	Ì	ug/Kg	υļ	YES														1	1
Endrín	10.8		ug/Kg	U	YES		1	1								1				1
Endrin aldehyde	10.8		ug/Kg	υ	YES					1	1						1			1
Endrin aldehyde	10.8		ug/Kg	U	YES			1						**	1		1			
Endrin kelone	10.8		ug/Kg	U	YES	i	1									1				1
Endrin ketone	10.8		ug/Kg	U	YES															1
gamma-BHC (Lindane)	10.8		ug/Kg	υį	YES						{	1	1							1
gamma-BHC (Lindane)	10.8		ug/Kg	U	YES	1		1		1	į		1				1		[]	1
gamma Chlordano	10.0		ug/Kg	υį	YE0	(1	1				1			1		ì			
gamma-Chiordane	10.8	1	ug/Kg	υ	YES										1	1				1
teptachlor	10.8		ua/Ka	V	YES			ł	1		1	1	1			1				1
leptachlor	10.8	1	ug/Kg	υí	YES	Į		1	1	i	1		į				i			1
leplachtor epoxide	10.8	1	ug/Kg	V	YES			1		}	\$									1
leplachlor epoxide	10.8		ug/Kg	υ	YES			1		1	· .	Í	Ì	Í	1	i	-	i		t
Velhoxychior	10.8		ug/Kg	U	YES				1							·····				1
vlethoxychlor	10.8	1	ug/Kg	U	YES	1					1				·····	i	 	 		1
Foxaphene	35.9		uq/Kq	υi	YES			1		1	i		1			i		· · · · · · · · · · · · · · · · · · ·		1

Project Number and Name:	11-032E • 11-032E Carroll Agent Orange	Library Used:	CampCarroll	
ADR 8.2		Report Date: 9/6/2011 09:53		Page 149 of 288
* Overall result qualifier reflects summ	nation of qualifiers added during automated data review and any qualifiers added manually for	categories not assessed by automated dat	a review	

Client Sample ID : E11-142-S1 Lab Report Batch : 31101889 Lab ID : SGSW Sample Date : 07/16/2011 Analysis Type: RES Sample Matrix : SO Lab Sample ID: 31101889035 Reviewed By / Date : Approved By / Date : Uncertainty / Error Lab Qual Rep Moist Limit Tot/Dis CV1 CCV Result Overall Quaf Lab Dup Rep Res Field Result LCS Analyte Name Temp нт ΜВ MS QC íC юv Units Surr Tune Analysis Method : 8081 Dilution: 1 Toxaphene 35.9 YES ug/Kg U Analysis Method : 8151 Dilution: 1 2,4,5-1 0.0181 mg/kg υ YES 2.4.5 T 0.0181 mg/kg υ YES 2,4,5-TP (Silvex) 0.0181 ΰ YES mg/kg 2,4,5-TP (Silvex) 0.0181 mg/kg υ YES 2,4'-D 0.0181 υ YES mg/kg 2,4'-D 0.0181 mg/kg ü YES 2,4-D8 0.0181 mg/kg υ YES 2,4-DB 0.0181 YES mg/kg U Dicamba 0.0181 mg/kg U YES Dicamba 0.0181 YES mg/kg υ Analysis Method : 8260B Dilution: 1 1,1,1,2-Telrachioroethane 4.69 ug/Kg U YES 1,1,1-Trichloroethane 4.69 ug/Kg υ YES 1,1,2,2-Tetrachloroethane 4.69 U YES ug/Kg 1,1,2-Trichloroethane 4.69 ug/Kg υ YES 1 1-Dichloroethsoe 4 69 ų YES ug/Kg 1.1-Dichloroethene 4.69 ug/Kg U YES 1,1-Dichloropropene 4.69 ug/Kg U YES 1,2,3-Trichlorobenzene 4.69 U YES ug/Kg 1.2.3-Trichloropropane 4.69 U YES ug/Kg 1,2,4-Trichlorobenzene 4.69 υ YES ug/Kg 1.2.4-Trimelhylbenzene 4.69 ug/Kg U YES 1,2-Dibromo-3-chloropropr 28.1 ug/Kg U YES 1.2-Dibromoethane 4.69 ug/Kg υ YES 1,2-Dichlorobenzene 4.69 υ YES ug/Kg Project Number and Name: 11-032E - 11-032E Carroll Agent Orange Library Used: CampCarroll ADR 8.2 Report Date: 9/6/2011 09:53 Page 150 of 288

* 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 : E11-142-S1

Sample Date : 07/16/2011 Lab Sample ID: 31101889035

Lab Report Batch : 31101889 Analysis Type: RES

Lab ID : SGSW Sample Matrix : SO

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quai		Overali Qual*	Temp	нт	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	ю	icv	CV /
Analysis Method : 8260B					Diluti	on: 1				~ • <i>•••</i> • • • • • • • • • • • • • • • •										
1,2-Dichloroelhane	4.69		ug/Kg	υ	YES												[1	
1,2-Dichloropropane	4.69		ug/Kg	U	YES	: /											[
1,3,5-Trimethylbenzene	4.69		ug/Kg	U	YES	:				1					1				1	
1,3-Dichtorobenzene	4.69		ug/Kg	υ	YES	2							1							1
1,3-Dichloropropane	4.69		ug/Kg	υ	YES															}
1,4-Dichlorobenzene	4.69		ug/Kg	U	YES															1
2,2-Dichloropropane	4.69		ug/Kg	U	YES											•••••				
2-Bulanone	15.1		ug/Kg	J	YES										1				4	[
2-Chlorotoluene	4.69		ug/Kg	U	YES										1 (1	
2-Hexanone	11.7		ug/Kg	U	YES	1														1
4-Chlorotoluene	4.69		ug/Kg	U	YES		1							- • • • • • • • • • • •						
4-isopropyiloluene	4.69		ug/Kg	U	YES															
4-Methyl-2-pentanone	11.7		ug/Kg	U	YES		1	1			1									
Acetone	67.4		ug/Kg		YES															
Benzene	4.69		ug/Kg	U	YES						i	1								
Bromobenzene	4.69	1	ug/Kg	U	YES						ĺ	1				1				
Bromochloromethane	4.69		ug/Kg	V	YES	1	1	1				1	;							
Bromodishloromolhano	4.69		ug/Kg	υ	YE0			ĺ	1		1	1		······						
Bromoform	4.69	ļ	ug/Kg	U	YES						i				1					
Bromomelhane	4.69		uo/Ko	U	YES		ĺ				1	 1				· - · · · · · · · · · · · · · · · · · ·	1			
Carbon disulfide	4.69	ĺ	ug/Kg	U	YFS	}	ĺ	1			1	1						· · · · · · · · · · · · · · · · · · ·		
Carbon telrachloride	4.69	1	ug/Kg	υ	YES			Ì			ĺ			······						
Chlorobenzene	4.69		ug/Kg	ប	YES			I	Í	į		Í	i	i	i	i	i	Ì		
Chloroethane	4.69		ug/Kg	U	YES			·····	·····		·····	 	 				······	·····i		
Chioroform	4.69		ug/Kg	υ	YES		1	1	·····	·····	·····	······ 1		·····'	······	·········		·····'	؛	
Chloromethane	4.69	Ì	uo/Ka	υi	YES	·····			/		······			ب	·····!.	 	 I	 		·····

Project Number and Name: 11-032E - 11-032E Carroll Agent Orange Library Used: CampCarroli ADR 8.2 Roport Date: 9/6/2011 09:53 Page 151 of 288 * Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

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Client Sample ID : E11-142-S1

Sample Date : 07/16/2011 Lab Sample ID: 31101889035

Lab Report Batch : 31101889

Analysis Type: RES

Lab ID : SGSW Sample Matrix : SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quai		Overali Qual*	Temp	нт	MB	LCS	MS	Lab Dup	Surr		Molst Tot/Dis		Tune	íC	ICV	CV / CCV
Analysis Method : 8260B					Dilutio	วก: 1	· · · · · · · · · · · · · · · · · · ·													
cis-1,2-Dichloroethene	4.69		ug/Kg	U	YES				[1	[1	1
cis-1,3-Dichloropropene	4.69		ug/Kg	U	YES															1
Dibromochloromelhane	4.69		ug/Kg	U	YES		1					1	1						/ 	1
Dibromomelhane	4.69	ĺ	ug/Kg	U	YES	1			1			1	1						1	
Dichlorodifluoromethane	4.69		ug/Kg	U	YES								1					•••••	 	1
Elhyl Benzene	4.69		ug/Kg	U	YES								<u>.</u>						 I	1
Hexachlorobuladiene	4.69		ug/Kg	U	YES								:						/	1
Isopropylbenzene (Cumene)	4.69		ug/Kg	U	YES	1							` 		1				/	:
m,p-Xylene	9.38		ug/Kg	U	YES							(• • • • • • • • •		•••••	 1	!
Melhyl iodide	4.69		ug/Kg	U	YES							·							1	1
Melhylene chloride	18.8		ug/Kg	U	YES	1	1							• • • • • • • • • • •		·····i			/ 	:
Naphthalene	4.69	1	ug/Kg	υ	YES											·····i		•••••	1	2
n-Butylbenzene	4.69		ug/Kg	U	YES		ĺ		·	·····										!
n-Propylbenzene	4.69	·····	ug/Kg	U	YES					·····	•••••						· · · · · · · · · · · · · · · · · · ·		······	: f
o-Xylene	4.69	}	ug/Kg	U	YES					·····						· · · · · · · · · · · · · · · · · · ·				¦
sec-Butylbenzene	4.69		ug/Kg	V	YES		· · · · · · · · · · · · · · · · · · ·		 							·····			1	i
Styrene	4.69		ug/Kg	V	YES			·····								·····'	·····			/
leit Butyl methyl othor (MTBE)	4.60		ug/i\g	υ	YEO) 		1						· · · · · · · · · · · · · · · · · · ·	 ا			/////// t
terl-Bulylbenzene	4.69		ug/Kg	U	YES			1	1	······. (····· /	!!]		·····	·····			
Telrachloroelhene	4.69		uq/Ka	U	YES		·····i·		·····		1	'' 	······		·····!		·····	<i>د</i> ا	!	:
Toluene	0.760		uo/Ko	J	YES			·····	·····/.		· · · · · · · · ·		·····/		·····		<i></i> ا	! 		: I
trans-1,2-Dichloroethene	4,69		ug/Kg	U	YES			·····	1		 		····· /	••••••		······	······	· · · · · · · · /	'! 	 I
trans-1,3-Dichloropropene	4.69		ug/Kg	U	YES		i	i	i	i		i	í	Í		j		لاندىدىن. لا	l	
Irans-1,4-Dichloro-2-butene	23.4		ug/Kg	υ	YES		·····	 	<i></i> ا	••••••	·····	······				······	'. 	·····!	!	
Trichloroethene	4.69	1	ug/Kg	U	YES	·····				·····	: i	···· ···!		· · · · · · · · · · · · · · · · · · ·		••••••• 	 	؛ ا	!	
Trichlorofluoromethane	4.69		uq/Kq	υŤ	YES	!.]) 	! 		۵ ا	···· · ···!		·····!	·····	· · · · · · · · · · · · · · · · · · ·	 ا	! 		

Project Number and Name:	11-032E • 11-032E Carroll Agent Orange	Library Used:	CampCarroll	
ADR 8.2		Report Date: 9/6/2011 09:53		Page 152 of 288
* Overall repuit qualifier reflects suppr	notion of qualifiers added during outermained data review ar	al and the all the second second second second second second second second second second second second second s		-

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

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Client Sample ID :E11-142-S1 Sample Date :07/16/2011

Lab Sample ID: 31101889035

Lab Report Batch : 31101889

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	Overall Quai*	Temp	нт	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Molst Tot/Dis	Fleid QC	Tune	IC	icv	CV I CCV
Analysis Method : 8260B					Dilutio	on: 1				~~~~								******		
Vinyl chloride	4.69		ug/Kg	υ	YES]		İ	ł	1						1
Analysis Method : 8270D					Dilutio	on: 1											••••••	• • • • • • • • • •		
1,2,4-Trichlorobenzene	351		ug/Kg	U	YES								1						1	
1,2-Dichlorobenzene	351		ug/Kg	V	YES	ļ				ł			1						1	1
1,3-Dichlorobenzene	351		ug/Kg	υ	YES	i				1	1	5		ĺ	**					1
1,4-Dichlorobenzene	351		ug/Kg	U	YES	1				1	}								1	1
2,4,5-Trichlorophenol	351		ug/Kg	U	YES		1			1	}								1	1
2,4,6-Trichlorophenol	351		ug/Kg	U	YES															1
2,4-Dichlorophenol	351		ug/Kg	υ	YES	1				1										
2,4-Dimethylphenol	351		ug/Kg	υ	YES	(/	1
2,4-Dinitrotoluene	351		ug/Kg	U	YES		1				(1		1		1	i
2,6-Dinitrotoluene	351		ug/Kg	U	YES		1													1
2-Chloronaphlhalene	351		ug/Kg	U	YES											• • • • • • • • • •				1
2-Chlorophenol	351		ug/Kg	U	YES		1													1
2-Methylnaphthalene	351		ug/Kg	U	YES	1														1
2-Methylphenol	351		ug/Kg	U	YES				1								······ }			1
2-Nitroaniline	351		ug/Kg	U	YES		1											•••••		i
2 Nitrophonol	351		ug/Kg	υ	YLU		1				••••••									1
3 and/or 4-Methylphenol	351	;	ug/Kg	U	YES]				1				i	•••••		
3-Nitroaniline	351		ug/Kg	V	YES			1	1			·····	i	•••••••			 			1
4-Bromophenyl phenyl elher	351	1	ug/Kg	U	YES	·		1	1	· • · · · · · · · · · · · · ·		······								: I
4-Chloro-3-methylphenol	351	Ì	ug/Kg	U	YES		Ì	1		· • • • • • • • • • • • • • • •	······	i	·····/		i	· · · · · · · · · · · · · · · · · · ·	 			!
I-Chloroaniline	351	1	ug/Kg	U	YES					······		i		i	i	1	i			• F
4-Chlorophenyl phenyl elher	351		ug/Kg	U	YES		1			·····		: 					······		•••••	:
-Nitroaniline	351	Ĩ	ug/Kg	U	YES			1			······	·····	·····	······	:	:ا ا	·····	·····/	••••••	1
I-Nilrophenoj	351	1	ug/Kg	U	YES		·····	، ا	······	· · · · · · · · · · · · · · · · · · ·		······	.د 	1	······ <i>·</i> 	••••••••••••••••••••••••••••••••••••••		'' I	•••••	!
Acenaphihene	351		ug/Kg	U	YES			·····		i	1				· • • • • • • • • • • • • • • • • • • •	1			<i></i>	!
roject Number and Name: 11-032	E • 11-032E (Libr	ary Us	ed:	CampO	arroll					
DR 8.2									Ren	ort Date		-						Page	163 u	(200

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 : E11-142-S1

Sample Date : 07/16/2011 Lab Sample ID: 31101889035

Lab Report Batch : 31101889 Analysis Type: RES

Lab ID : SGSW Sample Matrix : SO

t

Reviewed By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quai		Overall Qual*	Temp	нт	МВ	LCS	MS	Lab Dượ	Surr	Rep	Moist Tot/Dis		Tune	IC	icv	CV / CCV
Analysis Method : 8270D					Difuti							Cup	oun	Lana	TOUDIA	~~~	Turie		10.4	000
Acenaphthylene	351		ug/Kg	υ	YES	1			 	1		1	1] [1			1
Anthracene	351		ug/Kg	U	YES					/ 	: :	! !	1	: 	1		!- <i></i>	5 	/ 	}
Benzo(a)anthracene	351		ug/Kg	U	YES					 		ì Ì	1				\ 	' 		: 1
Benzo(a)pyrene	351		ug/Kg	U	YES							•••••• 			i 1		 	 		!
Benzo(b)fluoranthene	351		ug/Kg	U	YES	1					•••••	: 	1			•••••	••••••• 	·		!
Benzo(g,h,i)perylene	351		ug/Kg	U	YES			•••••			•••••		/ 				! 	-	: 1	±
Benzo(k)fluoranthene	351		ug/Kg	U	YES			·····				·		••••••		••••••	' 	'	! 	! <i>.</i>
Bis(2-Chloroethoxy)methane	351		ug/Kg	υ	YES								: 				• 	' 	!	!
Bis(2-Chloroethyl)ether	351		ug/Kg	U	YES				• • • • • • • • • • •							•••••	! 	1 !	<u>.</u>	1 <i></i>
Bis(2-Chloroisopropyl)ether	351		ug/Kg	U	YES		·····	·····					` 	•••••			!	•••••	! 	:
Bis(2-Ethylhexyl)phlhalate	351		ug/Kg	υ	YES	1		·····					 					•••••		!
Butyl benzyl phihalate	351		ug/Kg	U	YES		·····				•••••	•••••		•••••		•••••	• • • • • • • • • •			
Chrysene	351		ug/Kg	υ	YES			·	·····											!
Dibenz(a,h)anthracene	351		ug/Kg	U	YES			`` 	·i	·i	·····									
Dibenzofuran	351	·····	ug/Kg	U	YES			·			·'				••••••	!	· · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	
Diethyl phthalate	351		ug/Kg	υ	YES		·i	·····		······	}				·····	·····		•••••	'! 	
Dimethyl phthalate	351		ug/Kg	υ	YES	·····i		ì		·····/	······	· · · · · · · · · · · · · · · · · · ·				· · · · · · · · · · ·				• • • • • •
Di-n-botyl phthalate	351	••••••	ug/Kg	U	YEG		· · · · · · · · · · · · · · · · · · ·			······ 	······		·····/	••••••			·····			• • • • • • • •
Di-n-oclyl phthalate	351		ug/Kg	υ	YES		····· · ·		·····			······	·····'	!!		· · · · · · · · · ·				
fluoranthene	351	••••••	ug/Kg	- 41	YES		·····	······	·····/	i	······						· • • • • • • • •		!	
luorene	351	·····	uq/Kq	U	YES			······		//. 	······	······					·····			• • • • • • • •
lexachlorobenzene	351		ug/Kg	U	YES		· · · · · · ·	······	····· /	·····			······/	?? 	·····!·	· · · · · · · · · · · ·	! ! }			
łexachlorobutadjene	351	·····	ug/Kg	U	YES		·····	···· · · '	í		······	······	ل		, }	i I			: i	
łoxachlorocyclopenladiene	351	·····	ug/Kg	U	YES	·····	·····	 			 ا	!!]		!		 1			!	• • • • • • •
lexachloroethane	351		ug/Kg	U	YES	·····	·····		 			! 1		؛ ا	!. 	·····!	······	····· !	!	
ndeno(1,2,3-cd)pyrene	351	·····	ug/Kg	υŤ	YES	·····!·	·····[·	·····	! 1	· · · · · · · · · · · ·	! 1	· · · · · · · · · · · · · · · · · · ·		······	·····¦·	·····		!		

Project Number and Name:	11-032E - 11-032E Carroli Agent Orange	Library Used:	CampCarroll	
ADR 8.2		Report Date: 9/6/2011 09:63		Page 154 of 288
* Overall result qualifier reflects such	anting of qualifiers added during outerwated date as ten and emprove there added an e			

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Client Sample ID : E11-142-S1

Lab Report Batch : 31101889

Sample Date : 07/16/2011 Lab Sample ID: 31101889035

Analysis Type: RES

Reviewed By / Date :

Approved By / Date :

Lab ID : SGSW

Sample Matrix : SO

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overail Qual*	Temp	HT	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8270D					Diluti	on: 1														·····
Isophorone	351		ug/Kg	Ų	YES			1		1	}	}	1				[1	
Naphlhalene	351		ug/Kg	υ	YES															1
Nirobenzene	351		ug/Kg	U	YES	;			1									j		1
n-Nitrosodi-n-propylamine	351		ug/Kg	U	YES														4	1
Pentachlorophenol	351		ug/Kg	υ	YES	UJ				UJ										
Phenanthrene	351		ug/Kg	U	YES										1	•••••			1	
Phenol	351		ug/Kg	υ	YES									• • • • • • • • • •					1	1
Рутеле	351		ug/Kg	U	YES						••••••				1	••••••				1

Project Number and Name:	11-032E - 11-032E Carroli Agent Orange		Library Used:	CampCarroll	
ADR 8.2		Report Date:	9/6/2011 09:53		Page 155 of 288
* Overall result qualifier reflects summ	ation of qualifiers added during automated data review and any qualifiers added manually fo	or categories not assess	ed by automaled data	review	



Client Sample ID : E11-142-S2

Sample Date : 07/16/2011 Lab Sample ID: 31101889037 Lab Report Batch : 31101889 Analysis Type: RES

Lab ID : SGSW Sample Matrix : SO

.

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quai	Rep Res	Overal Qual*	Temp	нт	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	ĩC	ICV	CV / CCV
Analysis Method : 6010C					Diluti	on: 1														,
Arsenic	1.67		mg/kg		YES				1		[l								1
Barium	72.3		mg/kg		YES		1													1
Cadmium	0.915		mg/kg		YES	Ų		1	U											
Chromium	3.98		mg/kg		YES					1										1
Lead	7.81		mg/kg		YES															1
Selenium	2.14		mg/kg	U	YES															
Silver	1.07		mg/kg	U	YES															1
Analysis Method : 7471B					Dilutio)n: 1										•••••				
Mercury	0.00161		mg/kg	J	YES					1	l i									1
Analysis Method : 8081					Dilutio	on: 1														
4,4%DDD	10.6		ug/Kg	U	YES]			1					1
4.4'-DDD	10.6		ug/Kg	U	YES												!			1
4,4'-ODE	0.648		ug/Kg	JP	YES						ļ			I	1		1			1
4,4'-DDE	D.648		ug/Kg	JP	YES							1								
4,4'-DDT	10.6		ug/Kg	U	YES		1			}										1
4,4'-DDT	10.6		ug/Kg	U	YES		1]		1	1		ş			
Aldrin	10.6		ug/Kg	U	YES									l			í			
Aldrin	10.6		10/K0	0	YES							1	\$			1				
alpha-BHC	10.6	ļ	ug/Kg	U	YES	Ì	1						(
alpha-BHC	10.6	i i	ug/Kg	U	YES				- ii					ĺ	•••••••					1
alpha-Chlordane	10.6		ug/Kg	U	YES							1	1							
alpha-Chlordane	10.6	į	ug/Kg	υ	YES	1	Ī	1			(1	1			1		1		1
Dela-BHC	10.5		ug/Kg	U	YES								i			ĺ				
oela-BHC	10.6		ug/Kg	U	YES									1		1	1	1		1
Chlordane	35.3		ug/Kg	U	YES	}	1	1	1		1	1			i. 	 	i			
Chlordana	35.3		ug/Kg	U	YES		1	ļ	1	ĺ					i	i	·····			
ielta-BHC	10.6		ug/Kg	U	YES					· · · · · · · · · · · · · · · · · · ·		 		i	i. 	 I	·i	·/		



Client Sample ID : E11-142-S2

Sample Date : 07/16/2011 Lab Sample ID: 31101889037

Analysis Type: RES

Lab Report Batch : 31101889

Lab ID : SGSW Sample Matrix : SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quaf	Rep Res	Overail Qual*		нт	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	IC	icv	CV / CCV
Analysis Method : 8081					Diluti	on:1							• • • • • • • • • • • • •							
delta-BHC	10.6		ug/Kg	U	YES														1	1
Dieldrin	10.6		ug/Kg	U	YES	:)			1			{								1
Dieldrin	10.6		ug/Kg	υ	YES)								1	1
Endosulfan I	10.6		ug/Kg	U	YES	í I				l								•••••	1	1
Endosulfan I	10,6		ug/Kg	U	YES													•••••••	1	1
Endosulfan II	10,6		ug/Kg	U	YES										1				1	1
Endosulfan II	10.6		ug/Kg	U	YES			•••••					(1					1
Endosulfan sulfate	10.6		ug/Kg	U	YES												1	•••••	1	1
Endosulfan sulfate	10.6		ug/Kg	U	YES					1									1	1
Endrin	10.6		ug/Kg	U	YES		1		1										1	1
Endrin	10.6		ug/Kg	υ	YES					:			}				J			1
Endrin aldehyde	10.6		ug/Kg	U	YES	1													1	1
Endrin aldehyde	10.6		ug/Kg	U	YES		1						1						1	1
Endrin ketone	10.6		ug/Kg	U	YES ;								1							1
Endrin kelone	10.6		ug/Kg	U	YES	1						1							1	1
gamma-BHC (Lindane)	10.6		ug/Kg	U	YES														1	1
gamma-BHC (Lindane)	10.6		ug/Kg	U	YES														1	1
gamma-Chlordan a	10.6		ug/Kg	U	ΥËS	1			1	}	ĺ					·····			/ 	: }
gamma-Chiordane	10.6		ua/Ka	u į	YES	1	1	1				1				1	·····		1	4
Hoplachlor	10.6		ид/Кр	N į	YES		l	1				I]		Ì				
Heplachlor	10.6		ug/Kg	U	YES					1	1			1			······			!
Heptachior epoxide	10.6	1	ug/Kg	U	YES	1	1			····	1	Ì	í							:
Heplachlor epoxide	10.6		ug/Kg	U I	YES	ſ	Ì	1		·····		·····				1	 			:
Methoxychior	10.6	1	ug/Kg	U	YES			1			······· 	1		··	i- 	·····	 			i
Methoxychlor	10.6		ug/Kg	U	YES					·····		 1		······	·····!·		······	······ 		
Toxaphene	35.3		ир/Кр	U Ì	YES		·····		· '		 	······	······	!	••••••	·····	 	······!		: I

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

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 Report Date:
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Client Sample ID : E11-142-S2 Sample Date : 07/16/2011

Lab Sample ID: 31101889037

Lab Report Batch : 31101889

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		Temp	нт	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Fleid QC	Tune	IC	ICV	CV CC
Analysis Method : 8081					Dilution	n: 1											••••••			
Toxaphene	35.3		ug/Kg	U	YES					1			1	1			1			
Analysis Method : 8151					Dilution	n: 1											•••••	••••••		
2,4,5·T	0.0178		mg/kg	U	YES	}	1				i	ĺ		l	1 (i			1
2,4,5-T	0.0178		mg/kg	υ	YES					1							1		1	1
2,4.5-TP (Silvex)	0.0178		mg/kg	U	YES]		[1		1	ł
2,4,5-TP (Silvex)	0.0178		mg/kg	U	YES						1									
2,4'-D	0.0178		mg/kg	U	YES	1	1				1							• • • • • • • • • •	1	
2, 4 -D	0.0178		mg/kg	U	YES						5									1
2,4-DB	0.0178		mg/kg	U	YES	1					(• • • • • • • • •					1	1
2,4-DB	0.0178		mg/kg	U	YES		1			1						•••••			1	1
Dicamba	0.0178		mg/kg	U	YES									• • • • • • •						1.1.1.1.1.1
Dicamba	0.0178		mg/kg	U	YES		1											••••	(1
Analysis Method : 8260B					Dilution	::1														
1,1,1,2-Tetrachloroethane	4.08		ug/Kg	U	YES	UJ	1				UJ									
1,1,1-Trichloroethane	4.08		ug/Kg	U	YES	IJ	i	1	• • • • • • •	••••	UJ				Í					1
1,1,2,2-Tetrachloroethane	4.0B		ug/Kg	U	YES	UJ					UJ J							• • • • • • • •		1
i, 1, 2-Trichioroelhane	4.08		ug/Kg	υ	YES	UJ					UJ		1					• • • • • • • • •		1
I,1-Diohlorocihane	4.08		ug/Kg	U	YE3	UJ ¦	1				UJ									1
I,1-Dichloroethene	4.08		ug/Kg	U	YES	UJ	1				UJ						1			1
I, 1-Dichloropropene	4.08		up/Ka	Ų	YES	UJ					11.1									1
i.2.3-Trichlorobenzene	4.08		ug/Kg	u j	YES	U.F					0.0						·········			1
.2,3-Trichloropropane	4.08		ug/Kg	U	YES	UJ 🕴	Ì	1			UJ		••••••• [i					1
,2,4-Trichlorobenzene	4.0B		ug/Kg	U	YES	บม	Í	Ì	Í	2	UJ	i	ſ	i	i	Í	i			i
,2,4-Trimethylbenzene	4.08		ug/Kg	V	YES	UJ					UJ					·····				1
,2-Dibromo-3-chloropropane	24.5	į	ug/Kg	U	YES	UJ į	1			·····	UJ	·····	······	······ 			i			1
,2-Dibromoethane	4.08		ua/Ka	V	YES	UJ			••••••		0.0	،، ا	 {	·'	 		 ا	······	•••••	3
,2-Dichlorobenzene	4.08	Ì	ug/Kg	υ	YES	UJ		Ì	1	· · · · · · · · · · · · · · · · · · ·	UJ	1	 ا		i	! 		! ا	••••	!
olect Number and Name: 11-032	E - 11-032E (Carroll Agen	t Orange								Libi	ary Us	ed ·	CampO	arroll					
JR 8 2									D	ort Dati				oamho				_	158 of	

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

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Client Sample ID : E11-142-S2 Sample Date : 07/16/2011

Lab Sample ID: 31101889037

Lab Report Batch : 31101889

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*		нт	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Molst Tot/Dis		Tune	IC	icv	CV / CCV
Analysis Method : 8260B					Diluti															
1,2-Dichloroethane	4.08		ug/Kg	U	YES	UJ				1	UJ		1		.		1	1	1	1
1,2-Dichloropropane	4.08		ug/Kg	υ	YES	ມ				1	UJ	}	ł							1
1,3,5-Trimethylbenzene	4.08		ug/Kg	U	YES	UJ					UJ									1
1,3-Dichlorobenzene	4.08		ug/Kg	U	YES	ιU				1	UJ								1	1
1,3-Dichloropropane	4.08		ug/Kg	U	YES	UJ			}	1	UJ		1				1		1	1
1,4-Dichlorobenzene	4.08		ug/Kg	υ	YES	ບມ				1	UJ									1
2,2-Dichloropropane	4.08		ug/Kg	U	YES	UJ					UJ					•••••	1			1
2-Butanone	21.3		ug/Kg		YES	J		•••••			J									1
2-Chlorotoluene	4.08		ug/Kg	U	YES	LU					UJ				1				· · · · · · · · · · · · · · · · · · ·	1
2-Hexanone	10.2		ug/Kg	U	YES	LU					UJ		1				1			[
4-Chiorololuene	4.08		ug/Kg	U	YES	IJ					UJ					•••••			1	1
4-isopropylloluane	4.08		ug/Kg	Ų	YES	UJ					UJ			••••••		•••••	[
4-Melhyl-2-penlanone	10.2		ug/Kg	υ	YES	IJJ					UJ									(
Acetone	113		ug/Kg		YES	J	1				J									
Benzene	4,08		ug/Kg	υ	YES	UJ 🕴					UJ				}					
Bromobenzene	4.08		ug/Kg	υ	YES	UJ					UJ									
Bromochloromethane	4.08		ug/Kg	U	YES	ียว					UJ							• • • • • • • • • • • •		:
Bromodichtoromethane	4.08		ug/Kg	U	YES	UJ					UJ									
Bromoform	4.08		ug/Kg	V	YES	LU 🕴	1				11.1									1
Bromomelhano	4 08		но/Ко	44	YES	41.1		1			W.									
Carbon disulfide	4.08		ug/K.g	υ	YES	UJ I			1	UJ (UJ								•••••	
Carbon tetrachloride	4.08	Ì	ug/Kg	U	YES	UJ	1	·····	1		UJ									:
Chlorobenzene	4.08		ug/Kg	υ	YES	uu i	i	i	Í		UJ I			 	ارینی ا				••••••	
>hloroethane	4.0B	·····	ug/Kg	U	YES	IJ	i		: 	· 	UJ	······		:ا ا	······	·····		·····	•	
Chioroform	4.08	····	ug/Kg	U	YES	UJ	······:		····· /	······	UJ	! [! 	·····!	 	'' 	······			
Chioromethane	4 08	••••	ир/Ка	0	YES	11.1 3			· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	<u></u>	····· · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	• • • • • • • • •				^ب ر		

Project Number and Name:	11-032E - 11-032E Carroll Agent Orange	Library Used:	CampCarroll
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Client Sample ID : E11-142-S2

Sample Date : 07/16/2011

Lab Sample ID: 31101889037

Lab Report Batch : 31101889 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*	Temp	нт	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	IC	ICV	CV/ CCV
Analysis Method : 8260B					Dilutic	on: 1														
cis-1,2-Dichloroethene	4.08		ug/Kg	U	YES	មរ	1		1	1	UJ			i					ł	1
cis-1,3-Dichloropropene	4.08		ug/Kg	U	YES	UJ					UJ	1								
Dibromochloromethane	4.08		ug/Kg	υ	YES	บม				1	UJ					•••••			1	
Dibromomethane	4.08		ug/Kg	U	YES	UJ	1				UJ									1
Dichlorodifluoromethane	4.08		ug/Kg	υ	YES	IJ	I				UJ	1							/ 	1
Ethyl Benzene	4.08		ug/Kg	υ	YES	IJ					UJ	}		•••••				·····		1
Hexachlorobutadiene	4.08		ug/Kg	U	YES	UJ			` 		IJ			•••••				•••••	 	1
Isopropylbenzene (Cumene)	4.08		ug/Kg	U	YES	UJ I	1		·		ບປ					•••••			: 	1
m,p-Xylene	8.17		ug/Kg	U	YES		1									•••••	1	•••••	/ 	1
Methyl iodide	4.08		ug/Kg	υ	YES	UJ				IJJ	UJ	 !						• • • • • • • •	/	1
Melhylene chloride	16.3		ид/Ко	Ų	YES	ບມ	·····				UJ	`••••••• [! 	1
Naphihalene	4.08		ug/Kg	U	YES	UJ	· · · · · · · · · · · · · · · · · · ·				UJ				1		······································		!	1
n-Butylbenzene	4.08		ug/Kg	U	YES	ຍມ					UJ	 		•••••					4	!
n-Propylbanzene	4.08		ug/Kg	U	YES	UJ	1				IJ					••••••				! !
o-Xylene	4.08		ug/Kg	υ	YES	UJ					UJ		 1			·····				! [
sec-Bulyibenzene	4.08		ug/Kg	U	YES	UJ					UJ									
Slyrene	4.08		ug/Kg	U	YES	UJ		1			IJ	1	·····	····· /	· · · · · · · · · · · · · · · · · · ·		·····			
tert-Bolyl methyl ether (MTBE)	1.08		ug/Kg	U	YLU -	υJ				· · · · · · · · · · · · · · · · · · ·	υJ		······ 			·····	ش ا			1
tert-Butylbenzene	4.08		ug/Kg	U	YES	UJ		·····	1		UJ		 }		· · · · · · · · · · · · · · · · · · ·	·····				1
Telrachloroethene	4 08		uq/Kq	U	YES	UJ			i	· · · · · · · · · · · · · ·	ิเม	·····	·····	· · · · · · · · · · /	!. [6
Toluene	4,08		ug/Kg	V	YES	ยา		1	····· /		10		·····/·			י ו	 			: I
Irans-1,2-Dichloroethene	4.08	1	ug/Kg	U	YES	UJ	F		1	 	UJ		· · · · · · · · · · · · · · · · · · ·	! 		· ·····				:
rans-1,3-Dichloropropene	4.08	1	ug/Kg	U	YES	UJ		i	i	1	UJ 🕴	i	i	ł	i i	i	i	· · · · · · /	 	<i></i>
trans-1,4-Dichloro-2-butene	20.4		ug/Kg	U	YES	i.		·	·		·····	י 	······	·····	·····			ل ا	!! 	
Trichloroethene	4.08		ug/Kg	U	YES	UJ	·····	·····			UJ	! 		!	······	····· !		י ו	اا ا	
Trichlorofluoromelhane	4.08	·····	ug/Kg	U	YES	ŲJ	·····.'	<u>،</u>	······ 1		UI	!! 	·····/. 1	·····!	·····	····· 4		·····	······!	· · · · · · · · · ·

Project Number and Name:	11-032E • 11-032E Carroll Agent Orange	Library Used:	CampCarroll	
ADR 8.2		Roport Date: 9/6/2011 09:53		Page
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· Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

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Client Sample ID : E11-142-S2

Sample Date : 07/16/2011 Lab Sample ID: 31101889037 Lab Report Batch : 31101889

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 Quai* 1	remp	нт	MB	LCS	MS	Lab Dup	Surr	Rep Límit	Molst Tot/Dis		Tune	IC	íCV	CV / CCV
Analysis Method : 8260B					Dilutio	ก: 1						·····								
Vinyl chloride	4.08		ug/Kg	U	YES	UJ į	1		1		UJ		1							1
Analysis Method : 8270D					Dilutio	un: 1												•••••		
1,2,4-Trichlorobenzene	351		ug/Kg	υ	YES	1				1	1	-	ł						1	1
1,2-Dichlorobenzene	351		ug/Kg	υ	YES					1					1				1	1
1,3-Dichlorobenzene	351		ug/Kg	U	YES	1	1				1		1							1
1,4-Dichlorobenzene	351		ug/Kg	U	YES		1				1	1	1	1	1				1	1
2,4,5-Trichlorophenol	351		ug/Kg	U	YES						2	Į	1	}					1	1
2,4,6-Trichiorophenol	351		ug/Kg	υ	YES														1	1
2,4-Dichlorophenol	351		ug/Kg	U	YES	!	1						1			••••••	1		1	1
2,4-Dimethylphenol	351	ĺ	ug/Kg	U	YES								1		1				·····	1
2,4-Dinitrololuene	351		ug/Kg	υ	YES						1	}							1	1
2,6-Dinitrotoluene	351	1	ug/Kg	U	YES						·····	1 	1	: 	1			• • • • • • •	1	1
2-Chloronaphlhalene	351		ug/Kg	U	YES	· · · · · · · · · · · · · · · · · · ·	···· · · · · · · ·			••••••	1	 J	1				·····		 1	!
2-Chiorophenol	351		ug/Kg	U	YES					•••••									1 	1
2-Methylnaphthalene	351		ug/Kg	U	YES												••••••••••••••••••••••••••••••••••••••			1 I
2-Melhylphenol	351		ug/Kg	U	YES		·····						1						/ 	£,
2-Nitroaniline	351	1	ug/Kg	U	YES		·····					} 					h			1 1
2-Nitrophenol	351	······;	ug/Kg	U	YE6				······		•••••							••••••	1 I	!
3 and/or 4-Methylphenol	351		ug/Kg	υ	YES		···· <i>·</i>						•		•••••	 	à	•••••		!
3-Nilroaniline	351		ug/Kg	U	YES		1		· ·				() 			יי ו	······	•••••	/ 1	1
4-Bromophenyl phenyl ether	351		uq/Kq	υį	YES		i-	 1	······	• • • • • • • • • •				······	1.		······			 I
1-Chloro-3-methylphenol	351		ug/Kg	U	YES		·····	·i					•i	؛۔۔۔۔، ا		······	 }		! 	:
4-Chloroaniline	351		ug/Kg	U	YES		i	 	·····					Í		1	İ		r I	(
Chlorophenyl phonyl ether	351		ug/Kg	U	YES			·····`	····· /					······2	·		 ا		! 	: I
I-Nilroaniline	351		ug/Kg	υj	YES	 		······	······	••••••			/	·····		ا ا	••••••••••••••••••••••••••••••••••••••		! 	: I
I-Nilrophenol	351		ug/Kg	υ	YES		·····¦··	l	·i	·····				!! 	••••••	·····! 1	·····		!	: .
cenaphthene	351		ug/Kg	U	YES	i 	!. 		, 			······	•• 	!! 	! 	·!	· • • • • • • • • • • • • • • • • • • •			
roject Number and Name: 11-032E	- 11-032E	Carroll Agent	Orange								Lib	rary Us	ed:	CampC	arrolf					
DR 8.2									Ren	ort Deb		2011.09		•				Pana	161 of	1986

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Client Sample ID : E11-142-S2 Sample Date : 07/16/2011

Lab Sample ID: 31101889037

Lab Report Batch : 31101889 Analysis Type: RES

Lab ID : SGSW Sample Matrix : SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty i Error	Result Units	Lab Quat		Quai*	Тетр	нт	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	IC	tcv	CV/ CCV
Analysis Method : 8270D					Dilutio	on: 1														
Acenaphthylene	351		ug/Kg	U	YES							J			;		i		1	1
Anthracene	351		ug/Kg	U	YES	1							1	·					/	
Benzo(a)anihracene	351		ug/Kg	U	YES								·		I í	••••••			1	·!·····
Benzo(a)pyrene	351		ug/Kg	U	YES							}	: 	••••••		·····	· · · · · · · · · · · · · · · · · · ·			1
Benzo(b)fluoranihene	351		ug/Kg	U	YES							••••••		•••••		······				
Benzo(g,h,i)perylene	351		ug/Kg	U	YES							`••••• 		••••••		·····		•••••		. <u>.</u>
Benzo(k)fluoranlhene	351		ug/Kg	V	YES		 	· · · · · · · · · · · · · · · · · · ·	·····	········	• - • - • - • - •	: 	() 	•••••					: 	·!·····
Bis(2-Chloroethoxy)methane	351		ug/Kg	U	YES		·····	······	······	· · · · · · · · · · · · · · · · · ·						: ا			! 	1
Bis(2-Chloroethyl)elher	351		ug/Kg	υ	YES	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · ·	·····	·····			·	د ا			! 	 ا		! 	1
Bis(2-Chloroisopropyl)elher	351		ug/Kg	U	YES		 		i 	i		`'				·····			! 	1
Bis(2-Ethylhexyl)phthalate	351		ug/Kg	υ	YES	••••••••	·····	······	`	·····			:! 			······	<u>ئ</u>		! 	
Butyl benzyl phthalate	351	1	ug/Kg	U	YES			·'	·'									•••••	!	1
Сhrysene	351	Ì	ug/Kg	U	YES				·····/	 			· · · · · · · · · · · · · · · · · · ·		·····'			••••••	! 	!
Dibenz(a,h)anthracene	351	1	ug/Kg	U	YES				1						·····	· } 	í			1
Dibenzoluran	351	·····	ug/Kg	U	YES			· /	'. 	·····					'. i	·i	·····		E	! !
Diethyl phthalale	351		ug/Kg	U	YES			······	······					!			·····			1
Dimelhyl phthalate	351		ug/Kg	U	YES	•••••••		ì	·····				· · · · · · · · · · · · · · · · · · ·	؛ ا		·····	 ا	•••••	• • • • • • • • •	1
Di-n-butyf phlhalale	351		ug/Kg	υ	YES	· · · · · · · · · · · · · · · · · · ·			······!	······	·····	·····	· · · · · · · · · · · · · · · · · · ·		•••••	······	·····\	·····!		1
Di-n-oclyl phthalate	351		ug/Kg	υİ	YES	· · · · · · · · · · · · · · · · · · ·		······		·····/·	!			! ! 	•••••••			! 		!
Fluoranthene	351	·····	ug/Kg	U Î	YES					······	یُد ا			·····!		••••••	<u>^</u>			! 1
Fluorene	351		uq/Kq	U	YES :		· · · · · · · · · ·				! 	! 	t. 		1,	····· .		!	!	! 1
Hexachlorobenzene	351		ug/Kg	U	YES	·····'·			·····/·	i	ا ا	t	h	!	í. I		·····	l I	!	! !
Hexachlorobutadiene	351		ug/Kg		YES	(·····		··· '		1	1	י ו		1 	1		1۱	1
Hexachlorocyclopentadiene	351	************	ug/Kg	υ	YES		····!	·····	•••••	!- 	·}	!	 ا	!! 	·····	l. 1	·····	اا	······!	
Hexachloroelhane	351	·····	ug/Kg	U	YES	····	····· · ·	با ا	·····	 	۱۱ ا	! 	 ۱	·····!	· · · · · · ! ·	ł.	·····	·····	·····!	f
ndeno(1,2,3-cd)pyrene	351	****	ug/Kg	υŤ	YES	·····	·····!·· 	۰۰۰۰۰۰ ا		i	······	<u>!</u> 1	······	·····!		·····	·····		!	l

Project Number and Name: 11-032E - 11-032E Carroll Agent Orange Library Used: CampCarroll ADR 8.2 Report Date: 9/6/2011 09:53 Page 162 of 288 * Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

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Client Sample ID : E11-142-S2			E	.ab Re	port	Batch	:3110)1889								Lab	D:SC	ssw		
Sample Date : 07/16/2011				An	alysi	s Type	RES							S	Sample	Matr	ix : SC)		
Lab Sample ID: 31101889037																				
Reviewed By / Date :							Арр	roved	i By /	Date :										
Analyte Name	Result	Uncertainly / Error	Result Units	Lab Quai	Rep Res	Ove <i>r</i> all Qual*	Temp	нт	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Fleid QC	Tune	IC	íCV	CV/
Analyte Name Analysis Method : 8270D	Result				Rep Res Diluti	Qual*	Temp	нт	мв	LCS	MS		Surr		Moist Tot/Dis	Fleid QC	Tune	IC	ſCV	
	Result 351	Error			Res	Qual* on: 1	Temp	HT	мв	LCS	мв		Surr		Moist Tot/Dis	Fleid QC	Tune	IC	ícv	
Analysis Method : 8270D		Error	Units	Quai	Res Diluti	Qual* on: 1	Temp	нт 	мв 	LCS	MS		Surr		Moist Tot/Dis	Fleid QC	Tune	IC	icv 	

Nitrobenzene	351	ug/Kg	۲.	YES						1		1		1	}		2	1	1
n-Nilrosodi-n-propylamine	351	ug/Kg	U	YES			1			1	1			1		1	1	1	í
Pentachiorophenol	351	ug/Kg	U	YES	U3]			1	υJ		1					1	i	1	
Phenanlhrene	351	ug/Kg	U	YES	1	1		1 1						1	1	1	1		
Phenol	351	ug/Kg	U	YES		1						1		1	1	ł	1]	
Pyrene	351	ug/Kg	υ	YES						-		F		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 09:53		Page 163 of 2
* Overall result qualifier reflects summ	ation of qualifiers added during automated data review and any qualifiers added manually	for calegories not assessed by automated data	a review	

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Client Sample ID : E11-142-S3 Lab Report Batch : 31101889 Lab ID : SGSW Sample Date : 07/16/2011 Analysis Type: RES Sample Matrix : SO Lab Sample ID: 31101889036 Reviewed By / Date : Approved By / Date : Uncertainty / Lab Qual Rep Res Overall Qual* Lab Dup Rep Moist Limit Tot/Dis CV/ CCV Result Fleid QC Analyte Name Result Error Units Temp нт MВ LCS ICV MS Surr Tune IC Analysis Method : 6010C Dilution: 1 Arsenic 1.70 mg/kg YES Barium 54.5 YES mg/kg Cadmium 0.664 mg/kg YES ... Chromium 3.09 YES mg/kg Lead 5.88 mg/kg YES 0.427 Selenium YES mg/kg J Silver 0.928 YES mg/kg u Analysis Method : 7471B Dilution: 1 Mercury 0.0182 mg/kg υ YES Analysis Method : 8081 Dilution: 1 4.4'-DDD 10.2 ug/Kg U YES 4,4'-DDE 10.2 υ YES ug/Kg 4.4'-DDT 10.2 U YES ug/Kg Aldrin 10.2 ug/Kg υ YES alpha-BHC 10.2 U YES ug/Kg alpha-Chlordane 10.2 ug/Kg υ YES bela-BHC 10.2 ug/Kg U YES Chlordane 33.0 ug/Kg U YEU della-BHC 10.2 υ YES ug/Kg Dieldrin 10.2 ug/Kg Ų YES Endosulfan I 10.2 YES Ų uq/Kg Endosulfan II 10.2 ug/Kg U YES Endosulfan sulfate 10.2 υ YES ug/Kg Endrín 10.2 ug/Kg υ YES Endrin aldehyde 10.2 ug/Kg U YES Endrin ketone 10.2 ug/Kg υ YES gamma-BHC (Lindane) 10.2 U YES ug/Kg 11-032E - 11-032E Carroll Agent Orange Project Number and Name: Library Used: CampCarroll ADR 8.2 Report Date: 9/6/2011 09:53 Page 164 of 200

* 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 :E11-142-S3

Sample Date : 07/16/2011

Lab Sample ID: 31101889036

Lab Report Batch : 31101889 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	Overali Qual*	Temp	нт	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	ιc	ICV	CV / CCV
Analysis Method : 8081				~	Dilutio	on: 1				v///ana/a/ana/i										
gamma-Chlordane	10.2		ug/Kg	U	YES			1		1		1	1						1	1
Heplachior	10.2		ug/Kg	U	YES			.	• • • • • • • • •		1	}						•••••		
Heptachlor epoxide	10.2		ug/Kg	υ	YES						}								1	1
Methoxychlor	10.2		ug/Kg	U	YES										1				1	1
Toxaphene	33.9		ug/Kg	V	YES						{				[•••••				1
Analysis Method : 8151					Dilutio	on: 1											•••••	••••••	· · · · · · · · · · · · · · · · · · ·	·
2,4,5-T	0.0166		mg/kg	υ	YES	-					ł									
2,4,5-T	0.0166		mg/kg	U	YES]	1
2,4,5-TP (Silvex)	0.0166		mg/kg	U	YES														1	1
2,4,5-TP (Silvex)	0.0166		mg/kg	U	YES												 			1
2,4'-D	0.0166		mg/kg	U	YES															!
2,4'-D	0.0166		mg/kg	U	YES											•••••				1
2,4-D8	0.0166		mg/kg	U	YES	·····		·····	•••••											!
2,4-DB	0.0166	ĺ	mg/kg	U	YES				• • • • • • • • •									•••••	!	[
Dicamba	0.0166	Î	mg/kg	U	YES												4		/	
Dicamba	0.0166		mg/kg	U	YES			· · · · · · ·					· · · · · · · · · · · · · · · · · · ·					•••••		!
Analysis Method : 8260B					Dilutio	n:1	••••••	'	/											
1.1.1.2 Tolrochlorochone	4 56]	i	119/469	υį	YES										1					
1,1,1-Trichloroethane	4.56		ug/Kg	U	YES				1		•••••					·····	······································			
1,1,2,2-Tetrachloroethane	4.56		ug/Kg	U	YES		 	1		·										1
1,1,2-Trichloroethane	4.56		ug/Kg	υ	YES	·····						·····`								/
1,1-Dichloroethane	4.56		ug/Kg	υį	YES		······	1		••••••						·'	·	·····		.
1,1-Dichloroelhene	4.56		ug/Kg	υj	YES	·····	1	 		······	·····i	·····	·····		·····	!		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
1,1-Dichloropropene	4.56	1	ug/Kg	U	YES		1	Î		·/	·····	· · · · · · · · · · · · · · · · · · ·	!			 		 		
1,2,3-Trichlorobenzene	4.56		ug/Kg	U	YES			·	ا		· · · · · · · · · · · · · · · · · · ·	·····		· · · · · · · · · · · · · · · · · · ·	······i	·····		·····!		
,2,3-Trichloropropane	4.56		ug/Kg	υ	YES		·····		! 	······	: ا	 		!	·········	·····	<u>ل</u> ـــــــــ	! !		
,2,4-Trichlorobenzene	4.56		ug/Kg	U	YES		1	<u> </u>	ĺ		1	ļ	'- 		í- 	،ا		! 	·····!	
roject Number and Name: 11-032E	- 11-032E (arrolf Agent	Orange								Libr	ary Us	ed:	CampO	arroll					
UR 8.2			÷						Rec	ort Date		•						Pana	165 of	200

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

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Client Sample ID : E11-142-S3

Sample Date : 07/16/2011 Lab Sample ID: 31101889036

Lab Report Batch : 31101889 Analysis Type: RES

Lab ID : SGSW Sample Matrix : SO

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Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quał	Rep Res	Overall Quai*	Temp	нт	мв	LCS	MS	Lab Dup	Surr		Moist Tot∕Dis		Tune	IC	ICV	CV/ CCV
Analysis Method : 8260B					Dilutio	on: 1														
1,2,4-Trimethylbenzene	4.56		ug/Kg	U	YES								1		1				[1
1,2-Dibromo-3-chloropropane	27.4		ug/Kg	U	YES]						: 				·		/ 	. <u>.</u>
1,2-Dibromoelhane	4.56		ug/Kg	υ	YES	1	1					 		•••••				••••••		1
1,2-Dichlorobenzene	4,56		ug/Kg	U	YES		1						1	·		••••				
1,2-Dichloroethane	4.56		ug/Kg	U	YES						••••••	 				•••••			<u>-</u>	. <u>.</u>
1,2-Dichloropropane	4.56		ug/Kg	υ	YES	1	1					 	\			•••••			1 1	1
1,3,5-Trimethylbenzene	4.56		ug/Kg	U	YES	1													! 	1
1,3-Dichlorobenzene	4.56		ug/Kg	U	YES						•••••			••••••			·····	•••••	/ 	1
1.3-Dichloropropane	4.56		ug/Kg	U	YES		·····				•••••			•••••	••••		·····	•••••	/	¦
1,4-Dichtorobenzene	4.56		ug/Kg	U	YES				i						•••••••• 		······	••••••		!
2,2-Dichloropropane	4.56		ug/Kg	U	YES				i	······					•••••			•••••	¦	!
2-Butanone	22.8		ug/Kg	U	YES	1		1		······				······					!	!
2-Chlorotoluene	4.56		ug/Kg	U	YES		·		· · · · · · · · · · · · · · · · · · ·				 	·i						!
2-Hexanone	11.4		ug/Kg	U	YES		·····		1		·····		····· · · · · · · · · · · · · · · · ·	!			·····		 I	!
4-Chlorotoluene	4.56	1	ug/Kg	u	YES		· - • • • • • • • • • • •	Î	··········	 ا	 			•••••••	••••••		······	••••••	· · · · · · · · · · · · · · · · · · ·	! !
4-Isopropyltoluene	4.56		ug/Kg	U	YES		· · · · · · · · · · · · · · · · · · ·		`` 	· · · · · · · · · · · · · · · · · · ·		! 	· · · · · · · · · · ·		•••••••		·····			! .
4-Melhyl-2-pentanone	11.4		ug/Kg	V	YES		· · · · · · · · · · · · · · · · · · ·			······								····· · · · · · ·		!
Acelone	45.6		ug/Kg	U	YLU			 1			· · · · · · · · · · · · · · · · · · ·	••••••••••••••••••••••••••••••••••••••	·····	!		••••••		·····/		!
Benzene	4.56		ug/Kg	U	YES	· · · · · · · · · · · · · · · · · · ·	·····	·····	in in i		······	i		·····i		••••••		······		!
Bromobenzene	4 56		ug/Kg	U	YES	·····		·····			ار 1		·····	! 		۱۱ ا				
Bromochloromethane	4.56		uq/Kq	U	YES			· · · · · · · · ·	 		······ I			יי ו		ا۱ ا				!
Bromodichloromelhane	4.56		ug/Kg	U	YES		·····	 I	·····	i. I	······	<u>ن</u>		؛؛ ا	·····!·	<u>ا</u> ا	.ن ا		!! 	!
Bromeform	4.56		ug/Kg	U	YES		····	···· /	i	:	j	i	i	1	1	i	l {	ل ا	ا ا	
Bromomelhane	4.56		ug/Kg	U	YES		(1				י ו	····· /· 1	·····! 1		······		!! 	·····!	
Carbon disulfide	4.56		ug/Kg	U	YES		·····	 	.», ا			!! ا		!	·····.	·····! 1	·····	! I		
Carbon felrachloride	4.56	***************	ug/Kg	υŤ	YES	·····!· }		./ ا			······	! 1		·····	·····	·····.	·····	¦	••••••	

 Project Number and Name:
 11-032E
 - 11-032E
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Client Sample ID : E11-142-S3

Lab Report Batch : 31101889

Analysis Type: RES

Lab ID : SGSW Sample Matrix : SO

Sample Date : 07/16/2011 Lab Sample ID: 31101889036

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Quai*	Temp	нт	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	IC	icv	CV / CCV
Analysis Method : 8260B					Dilutie	on: 1														
Chiorobenzene	4.56		ug/Kg	U	YES							ì	1		1		1			1
Chloroethane	4.56		ug/Kg	U	YES										1		1		1	1
Chloroform	4.56		ug/Kg	U	YES												[1	:
Chioromethane	4.56		ug/Kg	U	YES	1							1						/ 	1
cis-1,2-Dichloroethene	4.56		ug/Kg	U	YES														1	 I
cis-1,3-Dichloropropene	4.58		ug/Kg	U	YES														1	:
Dibromochloromethane	4.56		ид/Ко	U	YES	1	1								1				1	:
Dibromomethane	4.56		ug/Kg	U	YES	1				••••••				•••••		•			1	
Dichlorodifluoromethane	4.56		uo/Ko	U	YES									•••••					; 	1
Elhyl Senzene	4.56		ug/Kg	U	YES		·····	•••••		: 									/ 	1
Hexachlorobuladiene	4.56		ug/Kg	U	YES	1	·····			·····	·····i								1	! [
Isopropylbenzene (Cumene)	4.56		ug/Kg	U	YES					·····						••••••				¦
m,p-Xylene	9.12		ug/Kg	U	YES					······i	······		·····`			••••••			4	!
Methyl iodide	4,56		ug/Kg	U	YES			······	· /	·····	······					•••••••				!
Melhylene chloride	1.40		ug/Kg	J	YES		······	·····	·i	·····/	·····						·······		·	 I
Naphihalene	4.56		ug/Kg	U	YES		· • • • • • • • • • • • • • • • • • • •		·····	·····	 		· · · · · · · · · · · · · · · · · · ·				····· /		/- <i></i>	!
n-Bulybenzene	4.56	•••••••••••••••••••••••••••••••••••••••	ug/Kg	U	YES				·····		······	''			•••••		۰		1	/
л Рюрувалгала	4.56		ug/i\g	U	YEB		·····		· · · · · · · · · · · · · · · · · · ·	 I		י 			······'	·····!			1	
o-Xylene	4.56		ug/Kg	U	YES			····· أ	·····			·····		······	·i	······				<i></i> İ
sec-Bulybenzene	4.56		ua/Ka	V	YES	·····	·····i	·····				؛؛ ا	······				 I			
Styrene	4.56		ug/Kg	U Ì	YFS		·····	·····	·····/			 			••••••	<u>ب</u> ،	 	·····	!! 	
tert-Bulyl methyl elher (MTBE)	4.56		ug/Kg	U	YES		·····	·····			/ {	······	······ į	<i>ا</i>	·····	ן 	·····		!! 	
lert-Butylbenzene	4.56		ug/Kg	U	YES	· · · · · · · · · · · · · · · · · · ·	i	i	i	{	i	i				1		• • • • • • • •	/l	
Tetrachloroethene	4.56		ug/Kg	U	YES	······································		'·····'			ا ا	!! 1		·	·!. 	·····!				·····
Toluene	4.56		ug/Kg	U	YES	· · · · · · · · · · · · · · · · · · ·	······	۰۰۰۰۰۰ ا	! 			اا ا		!		<u>ا</u> ا	······	······	· · · · · · · · · · · · · · · · · · ·	• • • • • • • •
trans-1,2-Dichloroethene	4.56		ug/Kg		YES	·····!·	·····	بر ا	······	h	 ł	! 1	·····. <u>1</u>	······!	·····		······	!		

Project Number and Name:	11-032E - 11-032E Carroll Agent Orange	Library Used:	CampCarroll	
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Client Sample ID : E11-142-S3

Sample Date : 07/16/2011 Lab Sample ID: 31101889036

Lab Report Batch : 31101889 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	Overail Qual*		нт	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	IC	ICV	CV / CCV
Analysis Method : 8260B					Dilutio	n: 1					/**/*********									
trans-1,3-Dichloropropene	4.56		ug/Kg	U	YES		{				1	[1	1	1					Î
Irans-1,4-Dichloro-2-butene	22.8		ug/Kg	U	YES				1						1					1
Trichloroethene	4.58		ug/Kg	U	YES			1	[1								1	1
Trichlorofluoromethane	4.56		ug/Kg	U	YES						}				1				1	
Vinyl chloride	4.56		ug/Kg	U	YES			1								•••••			1	1
Analysis Method : 8270D					Dilutio	n:1							••••••							1
1,2,4-Trichlorobenzene	333		ug/Kg	U	YES							Į			l i				1	1
1,2-Dichlorobenzene	333		ug/Kg	υ	YES	1					I	}								1
1,3-Dichlorobenzene	333	İ	ug/Kg	U	YES													•••••	/ [1
1,4-Dichlorobenzene	333		ug/Kg	υ	YES											•••••	1		(1
2,4,5-Trichtorophenol	333		ug/Kg	υ	YES								•••••							1
2,4,6-Trichlorophenol	333		ug/Kg	U	YES	1											· · · · · · · · · · · · · · · · · · ·		! 	<u>.</u>
2.4-Dichlorophenol	333		ug/Kg	U	YES															1
2.4-Dimethylphenol	333		ug/Kg	U J	YES						•••••					· · · · · · · · · ·	۵ ا			
2,4-Dinitrotoluene	333		ug/Kg	U	YES						·····		:			······	: 1	•••••		
2,6-Dinitrololuene	333	Ì	ug/Kg	U	YES	1			····· /		`		······	······	········	······	·····			
2-Chioronaphihalene	333	1	ug/Kg	U	YES		1			••••••			······	·i		••••••			••••	
2-Ohlomphenol	333		uy/Ky	U	YES		<u>ئ</u> ـــــ		····· ·	·····			••••••	······!	·····.	······!	 ا	· · · · · · · · · · · · · · · · · · ·		
2-Methylnaphthalene	333		ug/Kg	U	YES		 						د ا	·····'	······	·····	·····		•••••	
2-Melhyiphenoi	333		ир/Кр		YES	i	·i	·····	Ì		·····		/	·····!		۱۱ ا	······			: I
2-Nitroaniline	333		ug/Kg	U	YES :	i	 	······	· · · · · · · · · · · · · · · · · · ·	•••••	······!			!		·····	.با	} ا		: I
2-Nitrophenol	333		ug/Kg	U	YES				······		••••••	·····	!	·····!	!-	l I	·····	·!	!	: I
and/or 4-Methylphenol	333		ug/Kg	υ;	YES	·····	1	······ 1			·			'	1	1		1	9	
3-Nilroaniline	333		ug/Kg	υ	YES	i		i				······				۱۱ ا		!	<u>ا</u> ۔۔۔۔۔	' -
-Bromophenyl phenyl elher	333		ug/Kg	U	YES	!-		······		· '. 	·i	······ 1	'.		••••••	······	·····	لــــــــــــــــــــــــــــــــــــ	 	•••••
i-Chioro-3-melhyiphenol	333		ug/Kg	υ	YES	·····/	······	·i	······	······/	·}	t 	······ 1	·····	••••••	! 1	······	! I	·····	•••••
-Chloroanlline	333		ug/Kg	<u> </u>	YES			1				¦	! 		<u>-</u> ,	 	·!. 	ا ا	<u>!</u>	
roject Number and Name: 11-032E	- 11-032E (Carroli Agent	Orange								Libr	ary Us	ad:	CampC	arroll			/		
ÚR 8.2									Rop	ort Date		011 00-			•			Doon	168 of	200

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Client Sample ID : E11-142-S3

Sample Date : 07/16/2011

Lab Report Batch : 31101889 Analysis Type: RES

Lab ID : SGSW Sample Matrix : SO

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Lab Sample ID: 31101889036

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*		нτ	МВ	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	IC	ICV	CV.
Analysis Method : 8270D					Diluti	• • • • • • • • • • • • • • • • • • • •														
4-Chlorophenyl phenyl elher	333		ug/Kg	υ	YES				1	1]		Í				1	1
4-Nitroaniline	333		ug/Kg	U	YES				}	/						•••••		*******	·····	
4-Nitrophenol	333		ug/Kg	U	YES							} }						•••••	1	1
Acenaphthene	333		ug/Kg	U	YES				1							•••••			1	1
Acenaphthylene	333		ug/Kg	U	YES						1		1							1
Anthracene	333		ug/Kg	U	YES						1					•••••			·····	1
Benzo(a)anthracene	333		ug/Kg	υ	YES					1	[•••••				1
Benzo(a)pyrene	333		ug/Kg	U	YES									••••••			`' 			1
Benzo(b)fluoranthene	333		ug/Kg	U	YES									••••			`' 			
Benzo(g,h,i)perylene	333		ug/Kg	U	YES						1									<u>)</u>
Benzo(k)fluoranihene	333		ug/Kg	υ	YES	;													((
Bis(2-Chloroelhoxy)methane	333		ug/Kg	U	YES		1		•••••		•••••			·····	·····	•••••			! <i>-</i> 	1
Bis(2-Chloroethyl)ether	333		ug/Kg	U	YES	1	·····								•••••••			•••••	/	
Bis(2-Chlorolsopropyl)ether	333		ug/Kg	U	YES						•••••			······						!
Bis(2-Ethylhexyl)phthalate	333		ug/Kg	U	YES					•••••	• • • • • • • • • • •		1	1		······	·'	•••••	 	
Butyl benzyl phihalate	333		ug/Kg	U	YES		· · · · · · · · · · · · · · · · · · ·				· · · · · · · · · · · · · · · · · · ·			·····i	·····	·····				 I
Chrysene	333		ug/Kg	U	YES		1	1		···· · · · · · · · · · · · · · · · · ·	••••••				i. I		' 			
Dibenz(a,h)anthracono	993	ļ	ug/Kg	U	YE3		· · · · · · · · · · · · · · · · · · ·				······	1	·····/	······			יי ן			
Dibenzofuran	333	į	ug/Kg	V	YES			·····					·····/		í. I	: ا				
Dielhyi phihalate	333		uo/Ko	u ;	YES	·····	·····	Ì				'			·····		۸ ا			
Dimethyl phthalate	333	Ĩ	ug/Kg	U	YES			1	····· /	· · · · · · · · · · · · · · · · · · ·		·····		······!	·····!·					 I
Di-n-butyl phthalate	333	1	ug/Kg	U	YES		171111		······		···· ····	·····	······ 	······!		······				
Di-n-octyl phthalate	333	1	ug/Kg	U	YES		i	Í	i	1		1		1		······	·····	····· ··· · · · · · · · · · · · · · ·		
Fluoranthena	333		ug/Kg	U	YES	i		,' 	1	·i	i i	۱۱ ا		·····!	·····	! 	·	!		••
-iuorene	333		ug/Kg	U	YES		····· /·	 1			،، ا	 1	 	!! 	·····	·····!		!! 	· · · · · · · · · · · · · · · · · · ·	
Hexachlorobenzene	333		uo/Ko	U I	YES	······	í. 4		·····		·····		!. 	· · · · · · · · · · · ·		····· •	·····	••••••		•••••

Project Number and Name:	11-032E - 11-032E Carroll Agent Orange	Library Usod:	CampCarroll	
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Client Sample ID : E11-142-S3

Lab Report Batch : 31101889

Sample Date : 07/16/2011 Lab Sample ID: 31101889036

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	Тиле	ю	ICV	CV/ CCV
Analysis Method : 8270D		······	/^ ~		Diluti	on: 1			·			•								
Hexachlorobuladiene	333		ug/Kg	U	YES							j			(1	1
Hexachlorocyclopentadiene	333		ug/Kg	U	YES						• • • • • • • • • • •	` 	1		//				1	1
lexachloroelhane	333		ug/Kg	U	YES			' ا				 	•/		1 1	••••••			<u>.</u>	ł
ndeno(1,2,3-cd)pyrene	333		ug/Kg	υ	YES	····		······			••••		/	•••••	1	••••••	·····		! [
sophorone	333		ug/Kg	U	YES		· ·	؛؛ ا			•••••					•••••				1
Vaphlhalene	333		ug/Kg	U	YES	:			·····;	ئى ا	•••••			•••••••		·····!	,		l	1
Vitrobenzene	333		ug/Kg	υ	YES			؛۔۔۔.، ا	······				!! 		 	••••••	·····			
-Nitrosodi-n-propylamine	333		ug/Kg	U	YES			ا	! 	! ا			1						1	¦
entachiorophenol	333		ug/Kg	U	YES	UJ J	•••••••	י יייייי 	!! ا	UJ									1	!
henanthrene	333		ug/Kg	U	YES				·····	···· ;	······	·····!								[
henol	333		ug/Kg	U	YES		····!	י ן ו	ل ا	نــــــــــــــــــــــــــــــــــــ	••••••	! 	·!			·····				
Pyrene	333		ug/Kg	υ	YES		· · · · · · · · · · · · · · · · ·		!! !	لا ا	·····-¦	!	······	· · · · · · · · · · · · · · · · · · ·		·····-		•••••		<u>.</u>

Project Number and Name:	11-032E • 11-032E Carroll Agent Orange	Library Used:	CampCarroll	
ADR 8.2		Report Date: 9/6/2011 09:53		Page 170 of 200
* Overall result ouglifier reflects sum	nation of publicase added during a descent data and such as the second			

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

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Client Sample ID : E11-143-S1 Lab Report Batch : 31101889 Lab ID : SGSW Sample Date : 07/16/2011 Analysis Type: RES Sample Matrix : SO Lab Sample ID: 31101889041 Reviewed By / Date : Approved By / Date : Uncertainty / Lab Qual Result Rep Res Overaii Quai* Lab Dup Rep Moist Limit Tot/Dis CV / CCV Field Analyte Name Result Error Units Temp нτ ΜВ LCS MS Surr QC Tune IC юv Analysis Method : 6010C Dilution: 1 Arsenic 1.13 mg/kg YES Barium 60,8 YES mg/kg Cadmiun 0.744 mg/kg YES υ Chromium 4.02 mg/kg YËS Lead 6.39 mg/kg YES Selenium 0.943 mg/kg YES Silver 1.08 YES mg/kg Analysis Method : 7471B Dilution: 1 Mercury 0.00223 mg/kg YES J Method : 8081 Dilution: 1 4.4'-DDD 10.2 ug/Kg U YES UJ υJ 4,4'-DDE 10.2 UЭ ug/Kg υ YES υJ 4.4'-DDT 10.2 ug/Kg υ YES UJ IJ Aldrin 10.2 ug/Kg υ YES υJ UJ alpha-BHC 10.2 ug/Kg υ YES IJ IJJ alpha-Chiordan 10.2 ug/Kg U YES UJ UJ bela-8HC 10.2 ug/Kg U YES IJJ UJ Chlordane 33.0 ug/Kg U YEE UJ. UJ delta-BHC 10.2 U YES IJ υJ ug/Kg Dieldrin 10.2 ug/Kg u YES ŧIJ IJ Endosulfan 10.2 υ YES ÛĴ ug/Kg UJ. Endosulfan II 10.2 ug/Kg U YES θJ UJ Endosulfan sulfal 10.2 U YES UJ IJJ ug/Kg Endrin 10.2 ug/Kg υ YES UJ uз Endrin aldehyde 10.2 YES uJ ug/Kg U IJĴ Endrin ketone 10.2 ug/Kg U YES υJ ŲJ gamma-BHC (Lindane) 10.2 υ YES 83 ug/Kg UJ

Project Number and Name: 11-032E - 11-032E Carroll Agent Orange ADR 8.2

Library Used: CampCarroll Report Date: 9/6/2011 09:53

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Client Sample ID : E11-143-S1

Sample Date : 07/16/2011 Lab Sample ID: 31101889041

Analysis Type: RES

Lab Report Batch : 31101889

Lab ID : SGSW Sample Matrix : SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quał		Overall Qual*	Temp	нт	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Molst Tot/Dis		Tune	ю	ICV	CV.
Analysis Method : 8081					Dilutio	วก:1						· · · · ·								
gamma-Chlordane	10.2		ug/Kg	ບ	YES	UJ							UJ	:	f i					
Heptachlor	10.2		ug/Kg	U	YES	IJJ							UJ	/ 		•••••	!	• • • • • • • • •		! 1
Heptachlor epoxide	10.2		ug/Kg	U	YES	UJ				(UJ	! 	!i	••••••	!! 	•••••	! !	!
Melhoxychior	10.2		ug/Kg	U	YES	UJ						•••••	UJ			•••••	!		!	!
Toxaphene	33.9		ug/Kg	U	YES	ยง					(UJ	: 		••••••		•••••	!	
Analysis Method : 8151					Dilutio	n: 1			•••••				5		!	••••••			·	••••••
2,4,5-T	0.0169		mg/kg	υ	YES	1					1		1				1	•••••		··· ··
2,4,5-T	0.0169		mg/kg	U	YES				•••••		[••••••	1 		i	••••••	یا۔۔۔۔۔۔ ا	•••••		
2,4,5-TP (Silvex)	0.0169	Ì	mg/kg	U	YES				•••••				•••••••			·····				: !
2,4.5-TP (Silvex)	0.0169		mg/kg	U	YES			······			· · · · · · · · · · · · · · · · · · ·				 					 I
2,4'-D	0.0169	1	mg/kg	υ	YES			·····	····· /		:: 	······	·			!! ا				
2,4'-D	0.0169	Ì	mg/kg	U	YES	 ۱		····· ···		······	י 					ا ا				
2,4-DB	0.0169		mg/kg	U	YES	·····	······	 	`	••••••	؟؟ ا		}	······	······] 1	لا ۲	· · · · · · · · ·		•
2,4-DB	0.0169		mg/kg	U	YES				······		······ }		<i>ا</i>	!! 	·····	!	·····	! ا		
Dicamba	0.0169		mg/kg	U	YES				?؟ 		••••••	؛ ۱		اا ا	.		·····	ال		
Dicamba	0.0169		mg/kg	U	YES		···· · ···	 	· · · · · · · · · · · · · · · · · · ·	· • • • • • • • • • • • • • • • • • • •	·····	····· · · · · · · · · · · · · · · · ·	·····/	۶۴ ا	····	····· · · · · · · · ·	·····			
Analysis Method : 8260B		•••••••			Dilutio	n: 1		······	•••••	i	••••••		·····!	·····	••••••••	·····!	······	······	!	
1,1,1,2-Telrachioroethane	4.91	i	ug/Kg	υi	YES	ŲJ 🕴	1		1		1.1		1				i			
1,1,1-Trichloroethane	4.91		ug/Kg	υ	YES	UJ		1		••••••	UJ	i	••••••	·!	······	·····!	····	·?	······!	·····
1,1,2,2-1 elrachloroethane	4.91	1	ug/Kg	U (YES	UJ	1				UJ j	,	i		·l.	·····-	·····-		!	• • • • • • • •
1,1,2-Trichloroethane	4.91		ug/Kg	U	YES	ບ	Í	i	i	1	UJ	 1	•••••	·	·····	<u>ا</u>	••••••	!		
,1-Dichloroethane	4.91		ug/Kg	υİ	YES	UJ į	i i	·····	·····/.	····	UJ i	·····	·····		·····.	·····Ł	·	······		
1 Dichloroalheno	4.91		ug/Kg	νį	YES	IJJ	·····	·····	······	i. I	UJ I	······	/-		·····	·····-¦.		!	·····.	
,1-Dichloropropene	4.91		ug/Kg	U	YES	UJ j	······	·····		1	UJ	·	••••••		·····	·····.	·····	·····	·····	
,2,3-Trichlorobenzene	4.91		ug/Kg	U	YES	UJ	·····			······					·····	·				
2.3-Trichloropropane	4.91		ug/Kg	υ	YES	UJ	·····!.	·¦.	! 	 i	UJ I		····· ³ ·		••••••	·····	·····	·····	·····	•••••
.2,4-Trichlorobenzene	4.91		ug/Kg		YES	UJ	i	1		1. 	UJ	t.	·····/	•••••	i i	!. 		 I		••••••
roject Number and Name: 11-032E	- 11-032E C	arroll Agent	Orange								Libra	ary Use	d; (CampC	arroll					
DR 8.2									Ren	orl Dale		•						0	172 of	000

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Client Sample ID : E11-143-S1

Sample Date : 07/16/2011 Lab Sample ID: 31101889041

Lab Report Batch : 31101889

Analysis Type: RES

Lab ID : SGSW Sample Matrix : SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Resuit Units	Lab Quai	Rep Res	Overa# Qual*	Temp	нт	МВ	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	IC	icv	CV CCV
Analysis Method : 8260B					Dilutic	on: 1				*****		·····								
1,2,4-Trimethylbenzene	4.91		ug/Kg	U	YES	UJ 🤅				1	UJ]	1		1			1
1,2-Dibromo-3-chloropropane	29.5		ug/Kg	U	YES	IJJ				1	Įυ	{							1	1
1,2-Dibromoelhane	4.91		ug/Kg	U	YES	ยง					(UJ	}			5				1	1
1,2-Dichlorobenzene	4.91		ug/Kg	υ	YES	បរ				[UJ				1					1
1,2-Dichloroelhane	4.91		ug/Kg	U	YES	IJ					UJ		[1					1
1,2-Dichloropropane	4.91		ug/Kg	U	YES	IJ	1			1	UJ									1
1,3,5-Trimelhylbenzene	4.91		ug/Kg	υ	YES	UJ	1				UJ									1
1,3-Dichlorobenzene	4.91	1	ug/Kg	U	YES	UJ	1				UJ								1	1
1,3-Dichloropropane	4.91	ļ	ug/Kg	U	YES	UJ					UJ			••••••					1	1
1.4-Dichlorobenzene	4.91		ug/Kg	U	YES	UJ					UJ				i				1	1
2.2-Dichloropropane	4.91		ug/Kg	U	YES	UJ	1				UJ								1	1
2-Butanone	24,6		ug/Kg	U	YES	UJ					UJ								1	1
2-Chiorotoluene	4.91		ug/Kg	U	YES	L LU					IJ				1		1		1	1
2-Hexanone	12.3	1	ug/Kg	U	YES	ພ]			IJ			•••••					1	1
4-Chlorotoluane	4.91	Ì	ug/Kg	U	YES	UJ		1			UJ								1	1
i-isopropyitoluene	4.91	ľ	ug/Kg	V	YES	UJ	1				UJ				1				1	1
-Melhyl-2-pentanone	12.3		ug/Kg	U	YES	UJ	1		1		UJ								1	:
\oetono	25.7	1	ug/itg	J	YEO	J					J								/	İ
Benzene	4.91		ug/Kg	U	YES	UJ		1			υJ		1						4	1
Bromobenzene	4.91		uą/Kę	V i	YES	UJ			1		U.I								1	1
Bromochloromelhane	4.91		ug/Kg	υį	YFS	uJ	1		1		0.1			1			1		1	1
Fromodichloromethane	4.91		ug/Kg	υ	YES	UJ		1			UJ		1			1	······		1	'
Promotorm	4.91		ug/Kg	U	YES	L FU			ł	}	UJ	1		1		i				1
fromomelhane	4.91	1	ug/Kg	U	YES	LΩ		Ì	Ì		UJ						·····			:
Carbon disulfide	4.91		ug/Kg	U	YES	UJ	1	·····	1	IJ	UJ	i	·····/·	······			יי 			 I
Carbon letrachloride	4.91	1	uo/Kg	Ų	YES	UJ	·····i	1	· · · · · · · · · · · · · · · · · · ·	 		: 	····· /·	1	· · · · · · · · · · · · · · · · · · ·	′د ا			:	:

Project Number and Name:	11-032E - 11-032E Carroll Agent Orange	Library Used:	CampCarroll
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Client Sample ID : E11-143-S1 Sample Date : 07/16/2011

Lab Report Batch : 31101889 Analysis Type: RES Lab ID : SGSW Sample Matrix : SO

Lab Sample ID: 31101889041 Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quai		Overali Qual*		нт	MB	LCS	MS	Lab Dup	ระกา	Rep Limit	Moist Tot/Dis		Tune	IC	ICV	CV/
Analysis Method : 8260B					Dilutio	on: 1														
Chlorobenzene	4.91		ug/Kg	U	YES	ບມ			1		UJ	1							1	1
Chloroelhane	4.91		ug/Kg	U	YES	UJ			1		UJ			1					}	1
Chieroform	4.91		ug/Kg	U	YES	UJ			1		UJ				}				1	1
Chloromelhane	4.91		ug/Kg	U	YES	UJ					UJ		1		1]	1
cis-1,2-Dichloroethene	4.91		ug/Kg	U	YES	UJ .					UJ	}								1
cis-1,3-Dichloropropene	4.91		ug/Kg	U	YES	IJ					IJ	{								1
Dibromochloromethane	4.91		ug/Kg	U	YES	IJ			1		មរ									1
Dibromomethane	4.91		ug/Kg	U	YES	IJ					UJ.									1
Dichforodifluoromelhane	4.91		ug/Kg	U	YES	UJ					υJ	1			(1	
Ethyl Benzene	4.91		ug/Kg	U	YES	UJ					UJ	1			1					
Hexachlorobuladiene	4.91		ug/Kg	U	YES	UJ					UJ						1			1
Isopropylbenzene (Cumene)	4.91		ug/Kg	U	YES	IJJ				ļ	UJ									1
m,p-Xylene	9.83	į	ug/Kg	U	YES :	1	1												1	
Melhyl iodide	4.91		ug/Kg	U	YES	L N	1	I		UJ	IJ					1]			1
Melhylene chloride	1.03		ug/Kg	J	YES	1		I		1	J		Í							1
Naphlhalene	4.91		ug/Kg	U	YES	UJ				1	UJ									
n-Bulybenzene	4.91		ug/Kg	U	YES	UJ	1				UJ									[
n-Propylbenzene	4.91		uq/Kq	V	YES	UJ	1	1			UJ									1
o-Xylene	4.91	į	ug/Kg	υ	YES	UJ	l				ບປ					1	1			1
sec-Bulylbenzenø	4.91	;	ug/Kg	υį	YES]	UJ				1	UJ					1				
Styrene	4.91		ug/Kg	υį	YES	UJ	1	1	1	[UJ	i i		1		1	1			ŧ
ten-Bulyl methyl ether (MT8E)	4.91		ug/Kg	υ	YES	UJ	1	1			UJ		1	1	L I					1
ten-Butylbenzene	4.91	į	ug/ng	υţ	YES	ຍມ ¦	l	1			IJ		1		· · · · ·	1	1			1
Tetrachloroethene	4.91	Ì	ид/Кд	υį	YES	UJ			1	1	UJ.		1		1					1
Toluene	4.91		ug/Kg	U	YES	LΠ	1	. I	1	1	UJ]								(
trans-1,2-Dichloroethene	4.91		ug/Kg	ប	YES	UJ		1		1	ŲJ			1						(

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Client Sample ID : E11-143-S1

Lab Report Batch : 31101889

Sample Date : 07/16/2011 Lab Sample ID: 31101889041 Analysis Type: RES

Reviewed By / Date :

Approved By / Date :

Lab ID : SGSW

Sample Matrix : SO

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quai	Rep Res	Overall Qual*		нт	M8	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	icv	CV / CCV
Analysis Method : 8260B				··· /	Dilutio	on: 1									•••••					
trans-1,3-Dichloropropene	4.91		ug/Kg	U	YES	UJ	}				UJ								1	1
trans-1,4-Dichloro-2-bulene	24.6		ug/Kg	U	YES					1	1								1	1
Trichioroelhene	4.91		ug/Kg	U	YES	ບມ					IJ	1								1
Trichlorofluoromethane	4.91		ug/Kg	U	YES	UJ		1			ຍມ									I
Vinyl chloride	4.91		ug/Kg	U	YES	IJ				1	UJ									1
Analysis Method : 8270D					Dilutio	ฑ:1														•••••
1,2,4-Trichlorobenzene	339		ug/Kg	υ	YES							1					1 1		1	1
1,2-Dichlorobenzene	339		ug/Kg	υ	YES							{								1
1,3-Dichlorobenzene	339		ug/Kg	υ	YES														1	1
1,4-Dichlorobenzene	339		ug/Kg	U	YES															1
2,4,5-Trichiorophenol	339		ug/Kg	υ	YES	1						1							1	
2,4,6-Trichlorophenoi	339		ug/Kg	U	YES	}	1										Í			1
2,4-Dichlorophenol	339		ug/Kg	U	YES			1						1					[1
2,4-Dimethylphenol	339	1	ug/Kg	U	YES	1		1					1							1
2,4-Dinitrotoluene	339	1	ug/Kg	U	YES		1			· · · · ·				1	l					1
2,6-Dinitrotoluene	339		ug/Kg	υ	YES		· · · ·			{				1						1
2-Chloronaphthalene	339		ug/Kg	υ	YES						1		1							
2-Chiorophenol	339	1	ug/Kg	U	YES			1	1				1							1
2-Methylnaphlbalene	339	ļ	ug/Kg	U	YES		1							1	1		1			
2-Methylphenol	339	:	ug/Kg	U	YES ;			1	1					1						
2-Nitroaniline	339	Ì	ug/Kg	U	YES			1	1	1		1	1	1		1	1	ļ	· 1	ł
2-Nitrophenol	339		ug/Kg	U	YES	1	1			Í		1	ł	Í	1	Ì	1	1		
and/or 4-Methylphenol	339		ug/Kg	U	YES												1			
l-Nitroaniline	339		ug/Kg	U j	YES									1						1
-Bromophenyl phenyl elher	339		ug/Kg	U j	YES	1			1	1	1		1	1		Ì				1
-Chioro-3-methylphenol	339	1	ug/Kg	U	YES	1	1		I	[Ì	1		1	1		1	
-Chloroaniline	339		ug/Kg	υį	YES		Ì			I			İ	İ	i	İ		I	1	I
	E - 11-032E (Carroll Agon										rary Us		CampC						

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Client Sample ID : E11-143-S1 Sample Date : 07/16/2011

Lab Sample ID: 31101889041

Lab Report Batch : 31101889

Analysis Type: RES

Lab ID : SGSW

Sample Matrix : SO

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	IC	icv	CV /
Analysis Method : 8270D					Diluti		· · · · · ·					·····	·····							
4-Chlorophenyl phenyl ether	339		ug/Kg	U	YES				1	1	1	1	1	1	1		1	, ,	1	1
4-Nilroaniline	339		ug/Kg	U	YES								1					}	1	1
4-Nitrophenol	339		ug/Kg	U	YES						1	(1
Acenaphthene	339		ug/Kg	U	YES]			1	[1		[1
Acenaphthylene	339		ug/Kg	υ	YES					1									1	1
Anthracene	339		ug/Kg	U	YES														1	1
Benzo(a)anthracene	339		ug/Kg	U	YES							}	1						1	Î
Benzo(a)pyrene	339		ug/Kg	U	YES			••••••												1
Benzo(b)fluoranthene	339		ug/Kg	U	YES						1								1	1
Benzo(g,h,i)perylene	339		ug/Kg	U	YES	1								1						1
Benzo(k)fluoranthene	339		ug/Kg	υ	YES									1					1	
Bis(2-Chloroelhoxy)methane	339		ug/Kg	υ	YES														1	1
Bis(2-Chloroethyl)ether	339		ug/Kg	U	YES															
Bis(2-Chloroisopropyl)ether	339		ug/Kg	U	YES	1	1							•••••				•••••	[
Bis(2-Ethylhexyl)phthalate	339		ug/Kg	U	YES															
Sutyl benzyl phthalate	339		ug/Kg	U	YES												1			1
Chrysene	339	1	ug/Kg	U	YES		1													1
Dibenz(a,h)anthracene	339	1	ug/Kg	U B	YES		1	1												l
Dibenzofuran	339	;	ug/Kg	υ	YES		1	1												1
Diethyl phthalate	339		ug/Kg	U	YES :										//					1
Dimelhyl phlhalale	339		ug/Kg	U	YES							1								1
Di-n-buty! phihalate	339		ug/Kg	V	YES			1		1		Í		1						1
Di-n-octyl phihalate	339		ug/Kg	U	YES	1		1												
Fluoranthene	339	Ì	ug/Kg	U	YES			Ì			······									•••••
Fluorene	339		ug/Kg	U	YES	·····i 				i		:	······	·····	· · · · · · · · · · · · · · · · · · ·	1				
Hexachlorobenzene	339		ug/Kg	U	YES		····i	···· ·		i	······		·····		·····					

Project Number and Name: 11-032E - 11-032E Carroll Agent Orange Library Used: CampCarroll Page 170 of 200 ADR 0.2 Report Date: 9/6/2011 09:50

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Client Sample ID : E11-143-S1

Lab Report Batch : 31101889

Analysis Type: RES

Sample Date : 07/16/2011 Lab Sample ID: 31101889041

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overati Qual*	Temp	нт	MВ	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8270D					Diluti	on: 1														
Hexachtorobutadiene	339	r	ug/Kg	U	YES					1									1	
Hexachlorocyclopenladiene	339		ug/Kg	U	YES				1		{]	1	1						1
Hexachloroelhane	339		ug/Kg	V	YES						{									1
Indeno(1,2,3-cd)pyrene	339		ug/Kg	U	YES								1							1
Isophorone	339		ug/Kg	U	YES								1						1	1
Naphthalene	339		ug/Kg	Ų	YES]	1								1
Nitrobenzene	339		ug/Kg	υ	YES						1									1
n-Nitrosodi-n-propylamine	339		ug/Kg	U	YES							[[
Penlachlorophenol	339		ug/Kg	U	YES	IJ		•••••		IJ				••••••					[
Phenanihrene	339		ug/Kg	U	YES													••••		
Phenol	339		ug/Kg	υ	YES											·····				
Pyrene	339		ug/Kg	U	YES		i		·`							:i 	······			:

Project Number and Name:	11-032E - 11-032E Carroll Agent Orange	Library Used:	CampCarroll	
ADR 8.2		Report Date: 9/6/2011 09.53		Page
* Overall result qualifier reflects summ	nation of qualifiers added during automated data review and any qualifier	s added manually for categories not assessed by automated data	a review	

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Lab ID : SGSW

Sample Matrix : SO

Client Sample ID : E11-143-S2

Sample Date : 07/16/2011 Lab Sample ID: 31101889042 Lab Report Batch : 31101889 Analysis Type: RES

Lab ID : SGSW Sample Matrix : SO

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quat	Rep Res	Overail Qual*	Temp	нт	M8	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	ю	ICV	CV / CC\
Analysis Method : 6010C	·· /·· . ·· ···				Diluti	on: 1							• ••••••					• • • • • • • • • • • • • •		
Arsenic	1.36		mg/kg		YES	;		1			{		1							1
Barium	60.8		mg/kg		YES								1						1	1
Cadmium	0.744		mg/kg		YES	U			υ				1		(1
Chromium	3.55		mg/kg		YES	5						1								1
Lead	4.97		mg/kg		YES												;			1
Selenium	2.00		mg/kg	U	YES								1							
Silver	1.00		mg/kg	U	YES	1									[1	[
Analysis Method : 7471B					Dilutio	on: 1														
Mercury	0.00283		mg/kg	J	YES		1												1	1
Analysis Method : 8081					Dilutio	on:1														
4,4'-DDD	10.4		ug/Kg	U	YES	UJ	I	ĺ					ປມ							1
1,4'-DDE	10.4		ug/Kg	U	YES	UJ							UJ		1				1	
4.4'-DDT	10.4		ug/Kg	υ	YES	UJ		1					UJ							1
Aldrin	10.4	Ì	ug/Kg	υ	YES	UJ							UJ				1			1
upha-BHC	10.4		ug/Kg	U	YES	1 LU	1	1					UJ]							
lipha-Chlordane	10.4		ug/Kg	U	YES	U J	1	1					UJ (1
pela-BHC	10.4	1	ug/Kg	U	YES	UJ	l						UJ							1
Chlordane	34.6	Ì	ug/Kg	Ų	YES	UJ	1	1					υJ							1
Sella-BHC	10.4		ug/Kg	U	YES	UJ				1			UJ		1		1			
Dieldrin	10.4		ug/Kg	U	YES	UJ I	Ì	1			1		UJ		1		·····			:
Endosullan I	10.4		ug/Kg	U	YES	UJ Į	1	1	1		ł		UJ	1	1		1			1
Indosulfan II	10.4		ug/Kg	U j	YES	LU							UJ	i			·····			
Indosulfen sulfete	10.4		ug/Kg	U	YE0	บม	1	1					UJ	i						
Indrin	10.4		ug/Kg	U	YES	UJ	1	,					UJ	: 	i				• • • • • • • • •	
indrin aldehyde	10.4		ug/Kg	U	YES	UJ	·····	 Î	·····		·····	i	UJ	i			 			
ndrin kelone	10.4	·····	ug/Kg	U	YES	LU	i	îî	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	:، ا		UJ	·i						:
amma-BHC (Lindane)	10,4	·····	ug/Kg	Ų	YES	UJ		·····i		· · · · · · · · · · · · · · · · · · ·				·i		·····				

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Client Sample ID : E11-143-S2 Sample Date : 07/16/2011

Lab Sample ID: 31101889042

Lab ID : SGSW

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Sample Matrix : SO

Lab Report Batch : 31101889

Analysis Type: RES

		Uncertainty /	Result	Lab	Rep	Overal						Lab		Rep	Moist	Field				cv
Analyte Name	Result	Error	Units	Qual	Res	Qual*	Temp	нт	MB	LCS	MS	Бир	Surr	Limit	Tot/Dis	ac	Tune	łC	ICV	CCV
Analysis Method : 8081					Diluti				******	·····										
gamma-Chlordane	10.4		ug/Kg	U	YES	ຍມ	<u>.</u>		[]		[ມ						<u> </u>	1
Heplachlor	10.4		ug/Kg	U	YES	UJ	1			l			UJ						1	
Heptachlor epoxide	10.4		ug/Kg	U	YES	UJ							UJ						1	1
Methoxychlor	10.4		ug/Kg	U	YES	IJ							UJ							I.
Toxaphene	34.6		ug/Kg	ម	YES	UJ	1						UJ		([ł
Analysis Method : 8151					Dilutio	on: 1														
2,4,5-T	0.0173		mg/kg	U	YES		I												1	1
2,4,5-T	0.0173		mg/kg	υ	YES														1	1
2,4,5-TP (Silvex)	0.0173		mg/kg	บ	YES														1	1
2,4,5-TP (Silvex)	0.0173		mg/kg	U	YES				l				1							1
2,4'-D	0.0173		mg/kg	U	YES]	1											1	1
2,4'-D	0.0173	1	mg/kg	U	YES						1	1	ļ						1	1
2,4-DB	0.0173		mg/kg	U	YES		1	1		1			1		1				1	l
2,4-D8	0.0173	1	mg/kg	U	YES			1				1				1	1		1	
Dicamba	0.0173		mg/kg	U	YES				1	1		1	1		1				1	1
Dicamba	0.0173	i	mg/kg	U	YES			1	1				1	1	1					1
Analysis Method : 8260B					Dilutio	n: 1					• • • • • • • • • • • •									
i,1,1,2-Tetrachloroethane	4.81	į	uą/Ką	ម	YES	υJ	l				UJ				1	1	1			
1,1,1-Trichtoroethane	4.81	1	ug/Kg	U	YES	UJ			1		UJ	1					1			1
1,1,2,2-1 etrachloroethane	4,81	į	ug/Kg	U	YES	IJ	1		1	1	UJ	1	1		1					
1,1,2-Trichloroethane	4,81		ug/Kg	υ	YES	UJ		1			IJ		1	1	1	1		1	1 1	
1,1-Dichloroethane	4.81	:	ug/Kg	U	YES	UJ					UJ	1								
1,1 Diohlaroathana	4.81		ug/Kg	υį	YEG	UJ	1		1	Į	UJ 🕴	I	1							1
I,1-Dichloropropene	4.81		ug/Kg	υļ	YES	ŋŋ		1		į	UJ	ĺ	1	ĺ						
1,2,3-Trichlorobenzene	4.81		ug/Kg	υį	YES	UJ		1			UJ									 I
,2,3-Trichloropropane	4.81	1	ug/Kg	U	YES	UJ	Í	·····			UJ	i	i		·····	······	 	·····		
,2,4-Trichlorobenzene	4.81	1	ug/Kg	U	YES	IJJ		1	i		UJ	·····i	1	·i			 	······		

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

52 82

Report Date: 9/0/2011 09.53

Client Sample ID : E11-143-S2

Sample Date : 07/16/2011 Lab Sample ID: 31101889042

,

Analysis Type: RES

Lab Report Batch : 31101889

Lab ID : SGSW Sample Matrix : SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overali Qual ⁴	Temp	нт	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	icv	CV/
Analysis Method : 8260B					Dilutio	on: 1			~~~~~											
1,2,4-Trimelhylbenzene	4.81		ug/Kg	U	YES	υJ			1]	UJ	1	1		1				[1
1,2-Dibromo-3-chloropropane	28.9		ug/Kg	U	YES	υJ			1	1	UJ	}	•••••• 			• • • • • • • • • •			1	1
1,2-Dibromoethane	4.81		ug/Kg	U	YES	LIJ			1	1	υJ	·····			1		: 		 1	1
1,2-Dichlorobenzene	4.81		ug/Kg	U	YES	IJJ					UJ				İ		1			İ
1,2-Dichloroelhane	4.81		ug/Kg	U	YES	UJ					UJ			•••••				• • • • • • • •	/ 	:
1,2-Dichloropropane	4.81		ug/Kg	υ	YES	UJ					UJ				1		[[1
1,3,5-Trimethylbenzene	4.81		ug/Kg	υ	YES	UJ					UJ								: 	1
1,3-Dichlorobenzene	4.81		ug/Kg	U	YES	ບມ					UJ								 	
1,3-Dichloropropane	4.81		ug/Kg	U	YES	UJ					UJ			•••••				•••••	/	!
1,4-Dichlorobenzene	4.81		ug/Kg	U	YES	UJ		•••••			UJ		······	•••••••				• • • • • • • •	1	1
2,2-Dichloropropane	4.81		ug/Kg	υ	YES	UJ					UJ							•••••	1	1
2-Butanone	24.1		ug/Kg	U	YES	UJ	1				UJ					• • • • • • • • •				!
2-Chlorotoluene	4,81		ug/Kg	U	YES	UJ	 				UJ		1			•••••	······	•••••		
2-Hexanone	12.0	1	ug/Kg	U	YES	UJ	1				UJ			·····			}			¦
4-Chiorololuene	4.81	ĺ	ug/Kg	U	YES	UJ					IJJ			·······						
4-Isopropytoluene	4.81		ug/Kg	υ	YES	บม					υJ					••••••	1			
4-Methyl-2-pentanone	12.0	1	ug/Kg	U	YES	UJ			1		UJ	······	1							
Acelone	4.34	1	ug/Kg	4	YES	J	1				J	·····	i. 				}			
Benzene	4.81	1	ug/Kg	υţ	YES	UJ					IJ	1	1	······						[
Bromobenzene	4,81	1	ug/Kg	U	YES	IJ	Ì		1	······	UJ	i i i i i i i i i i i i i i i i i i i				· · · · · ·			1	
Bromochloromethane	4.81	:	ug/Kg	U	YES	UJ	1	1			UJ ļ			Ì	l l	1	1		Í	1
Bromodichloromelhane	4.81	1	ug/Kg	υ	YES	LU		Ì	i		UJ	i	i	í	j					
Dromoform	4.01		uy/Ky	υ	YES	IJJ					UJ	····· · · · · · · · · · · · · · · · ·		···· /		· ·	···· ····		······	
Bromomethane	4.81	1	ug/Kg	Ų	YES	UJ	·i				UJ	······	÷			· · · · · · · · ·	i		······	
Carbon disulfide	4.81	1	ug/Kg	U	YES	UJ	·····	· · · · · · · ·	·····	UJ	UJ	· · · · · · · · ·	1	•••••	· · · · · · · · · · · · · · · · · · ·	····· · · · · · · · · · · · · · · · ·	······		••••••	·····
Carbon telrachloride	4.81		ug/Kg	u	YES	UJ			·····	······	ີ ປປ				·····¦·	••••••	···· ··· .		! !	•••••

Project Number and Name: 11-032E - 11-032E Carroll Agent Orange Library Used: CampCarroll
ADR 8.2 Report Date: 9/0/2011 09.53

Page 180 of 288

5283

Client Sample ID : E11-143-S2 Sample Date : 07/16/2011 Lab Report Batch : 31101889

Analysis Type: RES

Lab ID : SGSW Sample Matrix : SO

Paye 181 of 288

Lab Sample ID: 31101889042

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quai		Overall Qual*	Temp	нт	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	IC	icv	CV / CCV
Analysis Method : 8260B					Diluti	on: 1					** *******									
Chlorobenzene	4.81		ug/Kg	U	YES	UJ	1		1		UJ						1	1	1	1
Chioroethane	4.81		ug/Kg	U	YES	UJ					UJ UJ]							······	. <u>.</u>
Chloroform	4.81		ug/Kg	U	YES	IJ					UJ	}				•••••			1	4
Chloromethane	4.81		ug/Kg	U	YES	υJ					UJ								``````````````````````````````````````	1
cls-1,2-Dichloroethene	4.81		ug/Kg	υ	YES	UJ					υJ			•••••		•••••			1	1
cis-1,3-Dichtoropropene	4.81		ug/Kg	บ	YES	IJ					UJ	1		•••••	1					1
Dibromochloromethane	4.81		ug/Kg	V	YES	UJ					UJ		1	••••					1	1
Dibromomethane	4.81		ug/Kg	Ų	YES	IJ					UJ) 			1	•••••			 I	1
Dichlorodifluoromethane	4.81		ug/Kg	V	YES	บม					UJ					•••••		•••••		1
Ethyl Benzene	4.81		ug/Кg	U	YES	UJ					UJ					••••				:
Hexachlorobutadiene	4.81		ug/Kg	U	YES	IJ					UJ									1
Isopropyibenzene (Cumene)	4.81		ug/Kg	U	YES	IJ	1			1	UJ								 	1
m,p-Xylene	9.62		ug/Kg	U	YES	• • • • • • • • • •			1							·····'	·····			1
Methyl iodide	4.81		ug/Kg	U	YES	υJ	1			UJ į	UJ			·····			·····	•••••	 	1
Methylene chloride	19.2]	ug/Kg	U	YES	UJ		·····	··	·	UJ			······			יייייייייייייייייייייייייייייייייייייי	•••••	! 	1
Naphlhalene	4.81	Ĩ	ug/Kg	V	YES	UJ		Î	1		UJ (·····		••••		
n-Bulybenzene	4.81	}	ug/Kg	U	YES	UJ	1				UJ		· · · · · · · · · · · · · · · · · · ·						/ 	1
n-Propylbenzene	4.81		ug/Kg	U I	YES	U.I	1		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	UJ j	i	······						1	1
o-Xylene	4.81		ug/Kg	U	YES	បរ	1	· · · · · · · · · · · ·		·····	UJ	······		· · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·				 I	!
sec-Bulylbenzene	4.81		ug/Kg	U	YES	IJ			i		UJ	· · · · · · · · · · · · · · · · · · ·	·····			· · · · · · · · ·			1	!
Styrene	4.81		ug/Kg	U	YES	IJ		······	·····		UJ	·····		······			i			Ì
tert-Butyl methyl ether (MTBE)	4.81	1	ug/Kg	U	YES	UJ		· • • • • • • • • • • • • • • • • • • •	····· 1		UJ I	i	1	1	i	i	i			Ì
leri-Dulyibanzana	4,01	1	uy/Ky	υ	788	IJ	· · · ·	 	·····	 ا	UJ		····· · · · · · · · · · · · · · · · ·	·····¦	!-			· · · · ·	· · · · · · · · · · · · · · · · · · ·	: E
Tetrachloroethene	4.81	·····	ид/Кд	U	YES	UJ	 1	i			UJ	······	i	'' 	i	!! ا	·····			
Toluene	4.81		ug/Kg	U	YES	IJJ		 1			UJ	i	 	:i	••••••••		······	······		<i>-</i>
rans-1,2-Dichloroethene	4.81	·····	ug/Kg		YES	LU	······	<u>ئ</u> ر	·····/. 1		UJ	····· ¦	· · · · · · · · · · · · · · · · · · ·	·····!	·····	·····	······!	····· '		!

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

 ADR 8.2
 Report Date:
 9/0/2011 09:53
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5284

Client Sample ID : E11-143-S2 Sample Date : 07/16/2011

Lab Report Batch : 31101889

Lab Sample ID: 31101889042

Analysis Type: RES

Lab ID : SGSW Sample Matrix : SO

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	нт	мв	LCS	MS	Lab Dup	รมท	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV /
Analysis Method : 82608	3				Dilutio	on: 1														
Irans-1,3-Dichloropropene	4.81		ug/Kg	U	YES	LIJ					UJ		[}			1		1	1
frans-1,4-Dichloro-2-butene	24.1		ug/Kg	U	YES		1					••••	: 		1	•••••	•• •		!	. <u>.</u>
Trichtoroethene	4.81		ug/Kg	U	YES	UJ					UJ		1						! 	4
Trichlorofluoromethane	4,81		ug/Kg	U	YES	IJ		******			UJ		·	• • • • • • • • • • • •		••••		•••••	! 	¦
Vinyl chloride	4.81		ug/Kg	U	YES	UJ	1				UJ					••••••			! 	!
Analysis Method : 8270D)				Dilutio	n:1								·						l
1,2,4-Trichlorobenzene	343		ug/Kg	υ	YES										1		3)	 I
1,2-Dichlorobenzene	343		ug/Kg	U	YES				1		: ا									! [
1,3-Dichlorobenzene	343		ug/Kg	U	YES			·····	·····/		· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·	·		······································		· · • · · • • • •	!
1,4-Dichlorobenzene	343		ug/Kg	U	YES			······	····· · · · · · · · · · · · · · · · ·	<i>ر</i>	'' 	1	<i>ا</i> ا	! 	·····			···· ··· ·	· . .	!
2,4,5-Trichlorophenol	343		ug/Kg	U	YES				······	····· ···· · · · · · · · · · · · · · ·	!! إ	!	/ / ا	! ا	••••••	! 	لید ا	!		!
2,4,6-Trichlorophenol	343		ug/Kg	υ	YES			,, 	······	·····' 	؛؛ ا	!! از		·····	!. 1	!		الا ا	·····	! !
2,4-Dichlorophenol	343		ug/Kg	U	YES		·····!		'' 	·····/	·····;	ا ۱	!	! 			······	ا		l
2,4-Dimethylphenol	343		ug/Kg	U	YES		! 		······	<i>؛</i> ! ا	 	! 	·····		······	····· ¦	·····	·····!		
2,4-Dinitrotoluene	343		ug/Kg	U	YES	!	؛	 1	! 		······			!! 	•••••	t 1		!		
2,6-Dinitrototuene	343		ug/Kg	υ	YES				!		·····	۱۱ ا	· · · · ·	!!	.•	······	اا ا		اا ا	
2-Chloronaphthalene	343		ug/Kg	U	YES	:i	l.				·····				· • • • • • • • • • • • • • • • • • • •	!	····	!	!	
2-Chiorophenol	343		ug/Kg	U I	YES			 1	.ئ ا			······	······		••••••••••••••••••••••••••••••••••••••	1	·····	t. 1	······	
-Methylnaphthalene	343		ug/Kg	υİ	YES					·!	k 	 1			·····	·····!	· · · · · · · · · ·			
-Methylphenol	343		ug/Kg	υÌ	YES	·····	······	····-	! 	; 1			·····¦.	••••••		1	1	1		
-Ndroaniline	343		ug/Kg	U :	YES		·····		 1	í	,	1	,	1	1	l	······	·····!		•
-Nitrophenol	343		ug/Kg	υÌ	YES		!.		i	1	1		<u> </u> - 	!-	••••••••••••••••••••••••••••••••••••••	· · · · · · · · · ·	·····		!	••••
and/or 4-Methylphenol	343		ug/Kg	υi	YES	;, 	•••••••			 	·····	·	·····.!.	••••• <u>•</u>	·	····	······	·····¦	·····-	
-Nrtroaniline	343		ug/Kg	U	YES	!.	 	à		k		· · · · · · · · · · · · · · · · · · ·		!- 1		1	·····		·····	•••••••
-Bromophenyl phenyl ether	343		ug/Kg	υ	YES	• • • • • • • • • • • • • • • • • • •	! - 	······		····· /		••••••••••••••••••••••••••••••••••••••	!		!		·····	¦		·····
-Chloro-3-methylphenol	343		ug/Kg	υÌ	YES	••••••	!. 	······		·	: -		· ³		····!		·····	·····	·····-	·····
-Chioroaniline	343	**************	ug/Kg	υ	YES	·······/· }	!. 			!	.	1	1		1	1	<u>i.</u>	J ,	·····	
)32E - 11-032E (· · · · · · · · · · · · ·									t.	

• 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

5285

Client Sample ID : E11-143-S2

Sample Date : 07/16/2011

Lab Sample (D: 31101889042

Lab ID : SGSW

Page 183 of 288

Sample Matrix : SO

Lab Report Batch : 31101889

Analysis Type: RES

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep	Overall Qual*	Toma	нт	MB	LCS	MS	Lab Dup	Surr	Rep	Moist Tot/Dis		1 0		1011	CVI
Analysis Method : 8270D					Diluti		1 cuih	r 2 I		103	ma	ոսի	Surr	Limit	TOUDIS	QC	Tune	1C	ICV	ccv
4-Chlorophenyl phenyl ether	343		ug/Kg	U	YES				 I	ŀ	I	ſ			1	 I			1	1
4-Nitroaniline	343		ug/Kg	U	YES				•		! 1	!	• •	! 	!i	• • • • • • • • • • • • • • • • • • • •	E	l	!	.[
4-Nitrophenol	343		ug/Kg	U	YES	:			!	!	<u>.</u>	¦	1	! 	!! !		l	1 i	<u>!</u>	
Acenaphthene	343		ug/Kg	υ	YES		······!	•••••		!	! <i>.</i> 	· · · · · · · · · · · · ·	•	! 			! !	l I	<u> </u>	. !
Acenaphlhylene	343	•••••	ug/Kg	U	YES	:	······	••••••		! 					!! 	,	! I	! !	·	1
Anthracene	343		ug/Kg	U	YES		!	••••••		!			!		I		l	} 		.
Benzo(a)anlhracene	343		ug/Kg	U	YES	·····		••••••		! 				••••		•••••	 			1
Benzo(a)pyrene	343		ug/Kg	U	YES		······						!		!!			l	!	¦
Benzo(b)fluoranthene	343	••••••	ug/Kg	U	YES		·!	· · · · · · · · · ·		•••••		• • • • • • • • • •						l 	<u>F</u>	
Benzo(g,h,i)perylene	343		ug/Kg	U	YES		·! 	·····'				• • • • • • • • • •	!			••••••			<u> </u> 	<u>!</u>
Benzo(k)fluoranthene	343		ug/Kg	U	YES	i	<u>!</u> ا	' 	····· ·				L		<u>!</u>				1	¦
Bis(2-Chloroethoxy)methane	343		ug/Kg	U	YES	·····!	·····/	·!	·	·····	! 	······	······	······		••••••			<u>F</u>	1
Bis(2-Chloroethyl)ether	343		ug/Kg	U	YES		·····!		·	ل {	!! !		····· · ·	··		·····				<u>!</u>
Bis(2-Chloroisopropyl)ether	343		ug/Kg	u	YES		!	! 	······	ی ا	<u>؛</u>			!		! 			l	l
Bis(2-Ethylhexyl)phthalafe	343		ug/Kg	υ	YES	·	!. 	·····	؛؛ ا	ل إ	 ا	· · · · · · · · · · · · · · · · · · ·	····· ··· ··· ·	<u>ا</u> ا		·····!				
Bulyl benzyl phthalate	343		ug/Kg	U	YES	·····	······				·····	!	·····							
Chrysene	343		ug/Kg	u i	YES			••••••••••••••••••••••••••••••••••••••	<u>!</u>	'' 		····· · · · · · · · · · · · · · · · ·	····· •		·····		·····		·	!
Dibenz(a,h)anthracene	343	1	ug/Kg	U I	YES	· · · · · · · · · · · · · · · · · · ·		¦. 	·!	·····!	·····!	 1		!! 		!, 1				f
Dibenzofuran	343	·····	ug/Kg	U	YES		······	! 	····· ·	!		! 				!		···· ···		
Diethył phlhalate	343		ug/Kg	υ	YES	· · · · · · · · · · · · · · · · · · ·		······	i						1	1	1			: :
Dimethyl phthalate	616		ug/Kg		YES	·····¦·				:	1	1	1		1 		· · · · · · · · ·			
Di-n-butyl phthatale	30.8	1	ug/Kg	J	YES			ŀ	1	1	1	1			••••••		· · · · · · · · · · · · · · · · · · ·			
Di n octyl phihalalo	040	·····	uy/Ky	υ	YËS	······		·····	<u> </u> 	 4	t	۱۱ ۱	····	· · · · · · !	·····				·	
luoranthene	343	•••••••••••••••••••••••••••••••••••••••	ug/Kg		YES	·····		<u> </u> 	<u>!</u>	<u></u>		! 1		1	····· †	1	i	······	·····!	
luorene	343		ug/Kg	U	YES	·····	·····	·····	····				!. 1		· · · · · · · · · · · · · · · · · · ·	· · · · · · !	•••••••	!	!	•••••
lexachlorobenzene	343		ug/Kg	U I	YES	·····.		·····	·····	····· ;	·····		·····	!	<u>.</u>	t.	·····	····· !	· · · · · !	

Project Number and Name: 11-032E - 11-032E Carroli Agent Orange Library Used: CampCarroll ADR 8.2 Report Date: 9/8/2011 09.53

5286

Client Sample ID :E11-143-S2

Lab Report Batch : 31101889

Analysis Type: RES

Lab ID : SGSW Sample Matrix : SO

Sample Date : 07/16/2011 Lab Sample ID: 31101889042

Reviewed By / Date :							Арр	roveo	i By /	Date :										
Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overail Qual*	Тетр	нт	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ю	CV / CCV
Analysis Method : 8270D					Diluti	on: 1														· ··· ···
Hexachlorobutadiene	343		ид/Кд	U	YES					[{	1	}							1
Hexachlorocyclopentadiene	343		ug/Kg	U	YES					1	(1	1		1		1		1	
Hexachloroelhane	343		ug/Kg	U	YES]	1	1			1		1			1		1
Indeno(1,2,3-cd)pyrene	343		ug/Kg	υ	YES										1			1	1	1
Isophorone	343		ug/Kg	U	YES							1	}							1
Naphthalene	343		ug/Kg	U	YES						1	1			i				1	1
Nitrobenzene	343		ug/Kg	Ų	YES]	1		1				1	[
n-Nitrosodi-n-propylamine	343		ug/Kg	U	YES							1			1			1	1	1
Pentachlorophenol	343		ug/Kg	U	YES	IJ			1	UJ					1	•••••				1
Phenanthrene	343		ug/Kg	U	YES						1				1			•••••• {		1
Phenol	343		ug/Kg	U	YES					[1			1				} }	1
Pyrene	343		ug/Kg	ប	YES							 }		•••••	1 1		: [·	1	:

Project Number and Name:	11-032E - 11-032E Carroll Agent Orange	Library Used:	CampCarroli	
ADR 8.2		Report Date: 9/0/2011 09:50		Page 104 of 208
 Overali result qualifier reflects summ 	nation of qualifiers added during automated data review and any quali	fiers added manually for caleoories not assessed by automated dat	a review	

5287

Client Sample ID :E11-145-S1

Sample Date : 07/17/2011 Lab Sample ID: 31101889029 Analysis Type: DL

Lab Report Batch : 31101889

Lab ID : SGSW Sample Matrix : SO

£

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quai	Rep Res	Overai Qual*	i Temp	нт	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Molst Tot/Dis		Tune	IC	ICV	CV / CCV
Analysis Method : 6010C					Diluti	on: 10														
Lead	110		mg/kg		YES					1					<u> </u>					
Analysis Method : 8081					Diluti	on: 5														
4,4'-DDD	10.4		ug/Kg	JP	YES		1				<u> </u>				<u> </u>				<u> </u>	
4,4'-DDD	10.4		ug/Kg	JP	YES				l		<u>.</u>	Į	[[1	
4,4'-DDE	21.0		ug/Kg	J	YES				l	ŧ		1	1		II				1	1
4,4'-DDE	21.0		ug/Kg	J	YES				I				1		Ii				1	
4,4'-DDT	137		ug/Kg		YES	J					J	l	1	1	I				1	
4,4'-DDT	137		ug/Kg		YES	J			I	1	J			}					1	1
Aldrin	51.4		ug/Kg	U	YES	;	1			1									1	1
Aldrin	51.4		ug/Kg	U	YES		1		l		1								1	1
alpha-BHC	51.4		ug/Kg	Ų	YES				1		}	{	1	i						
alpha-BHC	51.4		ug/Kg	U	YES							1	1						1	1
alpha-Chiordane	51.4		ug/Kg	U	YES		1			.	J		1		1		1		1	1
alpha-Chlordane	51.4		ug/Kg	υ	YES						1						[
beta-BHC	51.4		ug/Kg	U	YES														[
beta-BHC	51.4		ug/Kg	U	YES							Į							1	1
Chlordane	171		ug/Kg	U	YES								1						1	[
Chlordane	171		ид/Кд	U	YFS								1		1	I			1	1
della-BHC	51.4	ŝ	ug/Kg	υ	YES]			1
ielta-BHC	51.4		ug/Kg	ម	YES										1	1	1			1
Dieldrin	51.4	i	ug/Kg	U ;	YES												!			1
Dieldrin	51,4		ug/Kg	υļ	YES		Î													I
Indosullan i	91.4		ыу/Ку	υį	YES				1							1				1
Endosullan I	51,4		ug/Kg	υ	YES											I				
Endosulfan N	51.4	1	ug/Kg	U ;	YES								(1	1		1	1
Endosulfan II	51.4	1	ug/Kg	U ;	YES			 									1		1	1
ndosulfan sulfale	51.4		ug/Kg	Ų;	YES								[-]	1
	• 11-032E	Carroll Agen									Llb	rary Us	ed:	Campo	Carroll					
DR 8.2									Rep	ont Dat	e: 9/6/2	2011 09	:53					Page	105 o	f 200

5288

51.4

171

171

ug/Kg

uq/Ko

ug/Kg

υ YES

U YES

υ YES

Methoxychlor

Toxaphene

Toxaphene

Sample Date : 07/17/2011 Analysis Type: DL Lab Sample ID: 31101889029 Reviewed By / Date : Approved By / Date : Uncertainty / Error Lab Quai Rep Res Overali Qual* Lab Dup Rep Moist Limit Tot/Dis Result Field QC Analyte Name Resutt Units Temp HT MB LCS MS ю ICV Tune Surr Analysis Method : 8081 Dilution: 5 Endosulfan sulfate 51,4 ug/Kg U YES Endrin 51.4 ug/Kg YES υ Endrin 51.4 U YES ug/Kg Endrin aldehyde 51.4 ug/Kg υ YES Endrin aldehyde 51.4 U YES ug/Kg Endrin ketone 51.4 ug/Kg υ YES Endrin ketone 51.4 YES υ ug/Kg gamma-BHC (Lindane) 51,4 ug/Kg U YES gamma-BHC (Lindane) 51.4 YES ug/Kg υ gamma-Chlordane 51,4 ug/Kg U YES gamma-Chlordane 51.4 YES υ ug/Kg Heplachlor 51.4 U YES ug/Kg Heptachlor 51.4 ug/Kg υ YES Heplachlor epoxide 51.4 υ ug/Kg YES Heptachlor epoxide 51.4 YES ug/Kg υ Methoxychior 51.4 YES υ ug/Kg

Lab Report Batch : 31101889

11-032E - 11-032E Carroll Agent Orange Project Number and Name: Library Used: CampCarroll ADR 8.2 Report Date: 0/6/2011 00:53 · Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

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Lab ID : SGSW Sample Matrix : SO

cv/ ccv

Client Sample ID : E11-145-S1

Client Sample ID : E11-145-S1 Sample Date : 07/17/2011

Lab Sample ID: 31101889029

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quai	Rep Res	Overal Qual*	Тетр	нт	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	IC	ю	CV / CCV
Analysis Method : 6010C					Dilutio	วก: 1														
Arsenic	14.4		mg/kg		YES		1				1		1	1					1	
Barium	132		mg/kg		YES					[1					•••••				1
Cadmium	1.77	;	mg/kg		YES	U			U							•••••	1			1
Chromium	3.66		mg/kg		YES														[1
Selenium	1.96		mg/kg	U	YES					[[1	1
Silver	0.143		mg/kg	J	YES															
Analysis Method : 7471B					Dilutic	n: 1							•••••							
Мегситу	0.00361		mg/kg	З	YES								1							1
Analysis Method : 8151					Dilutio	m:1														
2,4,5-T	0.0168		mg/kg	U	YES												1			Ī
2,4,5-7	0.0168		mg/kg	U	YES			1				1				i	1			
2,4,5-TP (Silvex)	0.0168		mg/kg	บ	YES						1									1
2,4,5-TP (Silvex)	0.0168		mg/kg	U	YES	. 1	1										1			1
2,4'-D	0.0168		mg/kg	υ	YES						1									1
2,4'-D	0.0168	İ	mg/kg	U	YES					1							1			1
2,4-DB	0.0168		mg/kg	υ	YES		1	1		1		1		ĺ						1
2,4-D8	0.0168	į	mg/kg	U	YES			1												1
Dicamba	0.0168	1	mg/kg	U	YES						ſ									
Dicamba	0.0168		mg/kg	υį	YES	i	1	1					1		1	ł	1	1		
Analysis Method : 8260B					Dilutio	n: 1							••••••						••••	
1,1,1,2-Tetrachloroethane	4.11		ug/Kg	υ	YES	UJ		ł	1	1	UJ	1		1						··
i,1,1- i nchloroelhane	4.11		ug/Kg	υ	YES	۲IJ	1	1	I	ł	UJ	1	1	1		1		1	1	
1.2.2-Tetrachloroethane	4 11		на/Ка	11	YES	UJ					UJ j	1				1		1		*****
,1,2-Trichloroethane	4.11		ug/Kg	U	YES	UJ		1	1	1	υJ	1		1		1		1		
1-Dichloroethane	4.11		ug/Kg	υſ	YES	UJ	1	1	1	1	UJ	1	}					1	1	
,1-Dichloroethene	4,11		ug/Kg	υį	YES	ยา	l	1	1		UJ [1		1		1		1		
, ‡-Cichleropropene	4,11		UQ/Kg	V	YES	UJ			1	1	ωI							ĺ		·····
roject Number and Name: 11-032	E - 11-032E (Carroll Agent	Orange								Libr	ary Use	ed: (CampC	arroll					
DR 8.2									Reo	ort Date		144 AQ	<u>6</u> 2					D	ا ن 187	199

Lab Report Batch : 31101889

Analysis Type: RES

* 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

5290

Lab ID : SGSW

Sample Matrix : SO

Client Sample ID : E11-145-S1

Lab Report Batch : 31101889 Analysis Type: RES

Lab ID : SGSW Sample Matrix : SO

Sample Date : 07/17/2011 Lab Sample ID: 31101889029

Analysis Method : 8260B Dilution: 1 1.2.3-Trichlorobenzene 4.11 ug/kg U YES U <th>Analyte Name</th> <th>Result</th> <th>Uncertainty / Error</th> <th>Result Units</th> <th>Lab Qual</th> <th></th> <th>Overall</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>Lab</th> <th></th> <th>Rep</th> <th>Moist</th> <th></th> <th>_</th> <th></th> <th></th> <th>CV /</th>	Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual		Overall						Lab		Rep	Moist		_			CV /
1.2.3-Trichlorophenzene 4.11 ug/kg U YES UJ		Result	Earor	Units	Quai	******		remp	HI	мв	LCS	ms	Dup	Surr	Limit	Tot/Dis	qc	Tune	IC		CCV
1.2.3-Trichtoropropane 4.11 ugrkg U YES U		4 11		unika						ł					5						
1.2.4-Trichtorobenzene 4.11 ug/kg U YES UJ		• ÷	•••••							[l 		1		ļ		ļ	
1.2.4 Trimethybenzene 4.11 ug/kg U YES UJ UJ UJ IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII			•••••							l	!	·	í 	 		<u> </u>		Į	,	ļ	1
1.2-Ditromo-3-charappane 24.7 upKq U YES UJ UJ UJ I I I 1.2-Ditromoelhane 4.11 upKq U YES UJ I UJ I <t< td=""><td></td><td>• • • • • • • • • • • • • • • • • • •</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td><u> </u></td><td></td><td>l</td><td> </td><td></td><td> </td><td></td><td>1</td><td></td><td><u>!</u></td><td>ļ</td></t<>		• • • • • • • • • • • • • • • • • • •									<u> </u>		l					1		<u>!</u>	ļ
1.2-Dichlorobenzene 4.11 ug/kg U YES UJ I UJ I <			•••••							t	⊧ I		 			1	•••••	ļ		1	<u>.</u>
1.2.Dichlorobenzene 4.11 ug/Kg U YES UJ	1 2-Dibromoelhane		••••••			;				l	1 1						••••••			<u> </u>	Į
1.2.Dichloroethane 4.11 ug/Kg U YES UJ I UU I I I 1.2.Dichloropropane 4.11 ug/Kg U YES UJ I UJ I	······································	• • • • • • • • • • • • • • • • • • • •									l 									<u> </u>	ļ
1.2-Dichloropropane 4.11 ug/Kg U YES UJ I UU I <thi< th=""> I I I <t< td=""><td></td><td></td><td>•••••</td><td></td><td></td><td></td><td></td><td>· · · · · · · · · · · ·</td><td></td><td></td><td>l F</td><td>· · · · · · · · · · · · · · · · · · ·</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>ļ</td><td></td></t<></thi<>			•••••					· · · · · · · · · · · ·			l F	· · · · · · · · · · · · · · · · · · ·								ļ	
1.3.5-Trimethybenzene 4.11 ug/kg U YES UJ UJ UJ I	`	·	•••••		*********										•••••					1	<u> </u>
1.3-Dichlorobenzene 4.11 ug/Kg U YES UJ UJ UJ I		·										'								ļ 	ļ
1.3-Dichloropropane 4.11 ug/kg U YES UJ I UJ I <		• • • • • • • • • • • • • • • • • • • •			•••••	· · · · · · · · · · · · · · · · · · ·								· · · · · · · · · · · · · · · · · · ·				[<u>I</u> ,
1.4-Dichlorobenzene 4.11 ug/Kg U YES UJ I UJ I <		•••••••		*********		'-	!						·····			·····					
2.2-Dichloropropane 4.11 ug/kg U YES UJ I UJ I <		·····		*********			• • • • • •	·····!				• • • • • • • • • •		<u> </u>					• • • • • • •		ļ
2-Butanone 20.5 ug/Kg U YES UJ I UJ I III IIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	 			********								• • • • • • • • • •				·····-		!			
2-Chlorotoluene 4.11 ug/kg U YES UJ I UJ I		{·····						· · · · · · · · · · · · · · · · · · ·								!					ļ
2-Hexanone 10.3 ug/Kg U YES U I U U I		·····		*********				<u> </u>	·····	······	••••••			·····-1							ļ
4-Chlorotoluene 4.11 ug/Kg U YES UJ I<					· · · · · · · · · · · · · · · · · · ·				·····			'									<u>.</u>
4-Isopropytioluene 4.11 ug/Kg U YES UJ I I UJ I I I I 4-Methyl-2-pentanone 10.3 ug/Kg U YES UJ I I I I I I Acetone 10.3 ug/Kg J YES UJ I I I I I I Benzene 4.11 ug/Kg U YES UJ I I I I I Bromobionzeno 4.11 ug/Kg U YES UJ I I UJ I I Bromochloromethane 4.11 ug/Kg U YES UJ I I UJ I I														·····.	!						ļ
4-Methyl-2-pentanone 10.3 ug/Kg U YES UJ I UJ I IIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII			·····	•••••••				ļ								!					ļ., ,
Accetone 10.3 ug/Kg J YES J <thj< th=""> <thj< th=""> <thj< th=""></thj<></thj<></thj<>	***************************************				· · · · · · · · · · · ·						·····.										
Senzene 4.11 ug/Kg U YES UJ I UJ I III III IIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII					-			1	1			• • • • • • • • • •									
Bromobenzeno 4.11 ug//Q U YE3 UJ I IUJ I <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ļ</td> <td></td> <td>· · · · · · · · · · · · · · · · · · ·</td> <td></td> <td>1</td> <td>I</td> <td></td> <td></td> <td> </td> <td>4</td> <td> </td> <td></td>										ļ		· · · · · · · · · · · · · · · · · · ·		1	I				4		
Bromochloromethane 4.11 Ug/Kg U YES UJ UJ I <thi< td=""><td></td><td></td><td></td><td></td><td>····÷</td><td></td><td></td><td></td><td>ļ</td><td></td><td></td><td></td><td></td><td>ļ</td><td></td><td>İ.</td><td></td><td></td><td></td><td></td><td></td></thi<>					····÷				ļ					ļ		İ.					
						•••••••							l	!						<u> </u>	
3romodichloromethane 4.11: ug/Kg U YES UJ U UJ UJ		•••••							1				ŀ						1		
3romoform 4.11 ug/Kg U YES UJ UJ					. V (YES	UJ		l			UJ	l			İ.					

Project Number and Name: 11-032E - 11-032E Carroll Agent Orange Library Used: CampCarroli ADR 8.2 Report Date: 0/0/2011 00:53

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Client Sample ID : E11-145-S1

Sample Date : 07/17/2011

Reviewed By / Date :

Lab Sample ID: 31101889029

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quai	Rep Res	Overali Qual*	Тетр	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	icv	CV (CCV
Analysis Method : 8260B					Dilutio	on: 1			••••••						·····	******				
Bromomelhane	4.11		ug/Kg	U	YES	UJ	1			1	υJ	į	1		[]				1	1
Carbon disulfide	4.11		ug/Kg	U	YES	IJJ				UJ	UJ		1						1	1
Carbon tetrachloride	4.11		ug/Kg	U	YES	UJ					IJ									1
Chlorobenzene	4.11		ug/Kg	U	YES	LU					υJ									Î
Chloroethane	4.11	-	ug/Kg	U	YES	IJJ	l			1	IJĴ								1	1
Chioroform	4.11		ug/Kg	U	YES	ŲJ					IJ								1	1
Chloromelhane	4.11		ug/Kg	U	YES	UJ					ນ 🏻						[1
cis-1,2-Dichloroethene	4.11		ug/Kg	υ	YES	UJ	1				UJ									1
cis-1,3-Dichloropropene	4.11		ug/Kg	U	YES	UJ					UJ									1
Dibromochloromethane	4.11		ug/Kg	U	YES	IJ	Ĭ				UJ									1
Dibromomethane	4.11		ug/Kg	U	YES	បរ 🏻					บม									1
Dichlorodifluoromethane	4.11	Ì	ug/Kg	U	YES	UJ	1				ψJ									1
Elhyl Benzene	4.11	į	ug/Kg	V	YES	UJ					UJ		1		1		1			1
Hexachlorobuladiene	4.11	İ	ug/Kg	U	YES	UJ	1				UJ				Í					1
Isopropylbenzene (Cumene)	4.11	1	ug/Kg	U	YES	υJ	l				UJ	1								1
m,p-Xylene	8.22	1	ug/Kg	U	YES								1				1			
Methyl iodide	4.11	1	ug/Kg	υį	YES	LU	1	1		υJ	UJ		1		1		1			1
Methylene chloride	1.50		ug/Kg	J	YES	1 }	1	1	1		.1 {	1					(1
Naphihalene	4.11	1	ug/Kg	U	YES	IJ		1	I		UJ	1		1						1
n-Butybenzene	4.11	1	ug/Kg	υ	YES	UJ	1	1	1	1	UJ]		1	1	1]	1		1
n-Propylbenzene	4.11		ug/Kg	U :	YES :	UJ	1	1	1	[UJ	1		1	· · · · · · · · · · · · · · · · · · ·		1			1
o-Xylene	4.11	1	ug/Kg	U	YES	UJ		1	1		UJ	1		1	Ì	Í		l	1	l
sec-Dulyibenzene	4.11	ļ	ug/Kg	υì	YE3	UJ			Ì		UJ	1			······	Ì	·····			•
Styrene	4.11		ug/Kg	υļ	YES	UJ				1	ŲJ	1	;	1	••••••]		······	
lert-Butyl melhyl ether (MTBE)	4.11	1	ug/Kg	U	YES	ປມ	1	Ì	1	(IJ	1		1	· · · · · · · · · · · · · · · · · · ·		·····	····· · · · · · · · · · · · · · · · ·		
tert-Butylbenzene	4.11	1	ug/Kg	U	YES	UJ	1	·····	1	1	UJ		·····		· · · · · · · · · · · · · · · · · · ·		·····		· · · · · · · · · · · · · · · · · · ·	1

Lab Report Batch : 31101889

Analysis Type: RES

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

 ADR 8.2
 Report Date:
 9/6/2011
 09:53

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Lab ID : SGSW

Sample Matrix : SO

* 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

5292

Client Sample ID : E11-145-S1 Sample Date : 07/17/2011

Lab Sample ID: 31101889029

5293

Lab ID : SGSW

Sample Matrix : SO

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quai	Res	Overal Qual*	Temp	អរ	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV CC
Analysis Method : 8260B					Diluti	on: 1						······			· · · · · · · · · · · · · · · · · · ·	·····				
etrachloroethene	4.11		ug/Kg	U	YES	UJ) UJ	1	1						1	1
oluene	1.69		ug/Kg	J	YES	J	1				J	1				•••••				i
ans-1,2-Dichloroelhene	4.11		ug/Kg	U	YES	UJ					UJ		:		([·	•••••	/ 	·
ans-1,3-Dichloropropene	4.11		ug/Kg	Ų	YES	UJ				1	បរ					•••••				1
ans-1,4-Dichloro-2-butene	20.5		ug/Kg	υ	YES		1					[•••••	·	1
richloroethene	4.11		ug/Kg	U	YES	UJ					UJ				:! 	•••••	· · · · · · · · · · · · · · · · · · ·		/ 4	¦
richlorofluoromethane	4.11		ug/Kg	U	YES	uJ]				UJ				!i	•••••	,			1
inyl chloride	4.11		ug/Kg	U	YES	UJ			•••••		U.J	•••••							/ 	1
Analysis Method : 8270D	•••••••••••••••••••••••••••••••••••••••				Dilutio	in: 1		•••••							!!		!/	••••	!	!
2,4-Trichlorobenzene	339		ug/Kg	Ų	YES		1				}						1]	4
2-Dichlorobenzene	339		ug/Kg	υ	YES								<i>د</i>		*				!	!
3-Dichlorobenzene	339		ug/Kg	U	YES								! ا			• • • • • • • • •			• •	ł I
4-Dichlorobenzene	339		ug/Kg	U	YES			· · · · · · · · · · ·					·····/				، ، ، ا		······	1 1
4,5-Trichlorophenol	339		ug/Kg	U	YES			·····i	· · · · · · · · · · · · · · · · · · ·			' 	! 							4 [
4,6-Trichlorophenol	339	Ì	ug/Kg	υ	YES			······	· · · · · · · · · · · · · · · · · · ·	·····/	······	·····	····!	!!						:
4-Dichlorophenol	339		ug/Kg	U	YES						······	!! ا	······	·····!	······································	، ا				: I
4-Dimethylphenol	339		ug/Kg	U	YES	 		· · · · · · · · · · · · · · · · · · ·	······	·······	¦	! 	······	·····!	·····			· · · · · · · · · ·		:
4-Dinitrotoluene	339		ug/Kg	U	YES	······	1	· ·	، ا	<u>'</u> ۔۔۔.۔ ا	 j	<u>.</u> ا	····· · · · · · · · · · · · · · · · ·	<u>ا</u>	······		······			
3-Dinitrotoluene	339		ug/Kg	U	YES	·····	•••••	I	I	;	í	ľ	i	1	·	۱۱ ا	·····	·····› I	!! ا	
Chloronaphthaiene	339		ug/Kg	U	YES	 			····· /	·	،۲	i		! !	،ا	 1	·	·····/	!	
Clilorophenol	339		ug/Kg	U ;	YES .	! į		 1	·/. 1		: 1	؛ ا			¦ 1		·····-‡	····· [
Methylnaphthalene	339		ug/Kg	U	YES	······	·······	·	 		····.	!	.ن ا	·····!	·····	·····		·····		••••
Viethviphenol	339		нд/Ко	U i	YES		·····		·!			······ 1		!	•••••	·!	···	······	!	••••
Vitroaniline	339		ug/Kg	U i	YES	1	······	····-	·····/.			i				i	•••••••••••••••••••••••••••••••••••••••	^ي ـــــ	! 1	•••••
Nitrophenol	339		ug/Kg	υÌ	YES :		••••••••••••••••••••••••••••••••••••••		- · · · · · · · · · · · · · · · · · · ·		·····¦.		····	·····	÷.		·····	·	!	
Ind/or 4-Methylphenol	339		ug/Kg	U	YES	 	······	ן ו	······		·	¦	······!·	!	·····.		·			
vitroaniline	339	·····	ug/Kg	U I	YES	••••••	!.	 1	· • • • • • • • • • • • • •		······		·····			····	·····	·····	·····	

Lab Report Batch : 31101889

Analysis Type: RES

Client Sample ID : E11-145-S1 Sample Date : 07/17/2011

Lab Sample ID: 31101889029

Reviewed By / Date :

Approved By / Date :

Lab Report Batch : 31101889

Analysis Type: RES

Uncertainty / Lab Qual Result Overall Quai* Lab Dup Rep Moist Limit Tot/Dis CV/ CCV Rep Res Field QC Analyte Name Result Error Units ΗТ MВ LCS MS ю Temp Surr Tune ICV Analysis Method : 8270D Dilution: 1 4-Bromophenyl phenyl elher 339 ug/Kg υ YES 4-Chloro-3-methylphenol 339 U YES ug/Kg 4-Chloroaniline 339 ug/Kg V YES 4-Chlorophenyl phenyl ether 339 U ug/Kg YES 4-Nitroaniline 339 ug/Kg υ YES 4-Nitrophenol 339 YES ug/Kg U Acenaphthene 339 U YES ug/Kg Acenaphlhviene 339 ug/Kg υ YES Anthracene 339 ug/Kg υ YES Benzo(a)anthracene 339 ug/Kg U YES Benzo(a)pyrene 339 υ YES ug/Kg Benzo(b)fluoranthene 339 ug/Kg ΰ YES Benzo(g,h,i)perylene 339 YES ug/Kg υ Benzo(k)fluoranlhene 339 ug/Kg υ YES Bis(2-Chloroethoxy)methane 339 U YES ug/Kg Bis(2-Chloroelhyl)ether 339 U YES ug/Kg Bis(2-Chloroisopropyl)ether 339 υ YES ug/Kg Bis(2-Elhylhexyl)phlhalate 339 υ YES ug/Kg 339 Butyl benzyl phthalate ug/Kg υ YES Chrysene 339 υ YES ug/Kg Dibenz(a,h)anthracene 339 ug/Kg U YES Dibenzofuran 339 U YES ug/Kg Diethyl phthalate 330 ug/Kg ΰ YEC Dimelhyl phthalate 339 YES ug/Kg υ Di-n-butyl phlhalate 339 ug/Kg U YES Di-n-octyl phihalate 339 ug/Kg υ YES

Project Number and Name: 11-032E - 11-032E Carroll Agent Orange Library Used: CampCarroll
ADR 8 2 Roport Date: 0/6/2011 00:53

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

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Lab ID : SGSW Sample Matrix : SO

Client Sample ID : E11-145-S1 Sample Date : 07/17/2011

Lab Sample ID: 31101889029

Analysis Type: RES

Lab Report Batch : 31101889

Lab ID : SGSW Sample Matrix : SO

	····						P P		· j ·	Date	•						•••••			
Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Quat*	Temp	нт	мв	LCS	MS	Lab Dup	Surr	Rep Limit		Field QC	Tune	IC	ICV	CV /
Analysis Method : 8270D					Diluti	on: 1	·····		••••••											
Fluoranthene	339		ug/Kg	U	YES			•	1	1		1	 		1		[1	1
Fluorene	339		ug/Kg	U	YES					1	1	` 			1			`••••• 	1	!
Hexachiorobenzene	339		ug/Kg	U	YES					: 	······	1 1			1	•••••	•••••• •			1
Hexachlorobutadiene	339		ug/Kg	U	YES						1	: 	1				: 	' <i></i>	í	1
Hexachtorocyclopentadiene	339		ug/Kg	U	YES			•••••				: 						' 	1	!
Hexachloroethane	339		ug/Kg	U	YES	1						: 	(<i>-</i>	•••••			 I		····- 	!
ndeno(1,2,3-cd)pyrene	339		ug/Kg	U	YES						:			•••••				*****	2	!
sophorone	339		ug/Kg	U	YES	1			•••••			(1	•••••			 1	
Vaphthalene	339		ug/Kg	U	YES	1	·····i		•••••						!! i				 	!
Vitrobenzene	339		ug/Kg	U	YES		·i	• • • • • • • • •								•••••				! !
n-Nitrosodi-n-propylamine	339		ид/Кд	U	YES	1	·····					`·····				•••••			<u>-</u>	l
Pentachiorophenol	339		ug/Kg	U	YES	UJ	i			UJ	/ }			•••••	!! 		••••••••••••••••••••••••••••••••••••••	•••••		
Phenanihrene	339		ug/Kg	U	YES	1	·i	·		••••			······	•••••••	ئــــــــــــــــــــــــــــــــــــ		······/			
Phenol	339		ug/Kg	υ	YES		·i	· 				! 					ن ــــــــــــــــــــــــــــــــــــ	•••••	¦	
Рутепе	339		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 00:53 * Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

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Client Sample ID : E11-145-S2

Sample Date : 07/17/2011 Lab Sample ID: 31101889030

Analysis Type: DL

Lab Report Batch : 31101889

Lab ID : SGSW Sample Matrix : SO

,

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		Tune	ю	ICV	CV /
Analysis Method : 8081					Diluti							F			100010	40	1 4600			004
4,4'-DDD	96.0		ug/Kg	JP	YES									;	1		1		1	
4,4'-DDD	96.0		ug/Kg	jР	YES							: !	:	! 	4		·, /		4 	: 1
4,4'-DDE	68.9		ug/Kg	J	YES		·····/				: }	• (! !	!!	,	!! 	•••••	1	<u>.</u>
4,4'-DDE	68.9		ug/Kg	J	YES					 		' 							·	!
4,4'-DDT	1110		ug/Kg		YES	J					J		!		 					¦
4,4'-DDT	1110		ug/Kg		YES	J	••••••••				J	••••••			!! 	•••••			 1	!
Aldrin	532		ug/Kg	υ	YES		·		••••••			·'				•••••			!	I
Aldrin	532		ug/Kg	U	YES		······										!		! 	!
alpha-BHC	532		ug/Kg	U	YES		·····										!! i	••••	! !	!
alpha-BHC	532		ug/Kg	Ų	YES	·····							······		, 					1
alpha-Chlordane	532		ug/Kg	U	YES		 	·····'					! į				!! 		! 	! I
alpha-Chlordane	532		ug/Kg	U	YES	······	···· · · · · · · · · · · · · · · · · ·	' ا					·		·				!	! [
beta-BHC	532		ug/Kg	U	YES	· 1		·	<i>.</i>		······		·	• • • • • • • • •		•••••	·			!
beta-BHC	532	i	ug/Kg	U	YES		i	'' 	······	:: 	 	······	:! 	••••••					 I	
Chlordane	1770	Ì	ug/Kg	U	YES		······	·····	······	<i>د</i>	·····		······		•••••	!! ا	······			
Chlordane	1770	·····	ug/Kg	U	YES	·····			·		······	؛؛ ا	·····	·····						
delta-8HC	532	i	ug/Kg	U	YES	·····i		······		: 	·····	! 		!		· · · · · · · · · · · · · · · · · · ·	······			
delta-BHC	532	1	ug/Kg	υ	YES	·····	·····		······	······		:		······						••••
Dieldrín	532		ug/Kg	U	YES	••••••••••••••••••••••••••••••••••••••		·····	····· /	'' 			·····:	 		! 	·····	·····'		······
Dieldrin	532		ug/Kg	U	YES			······		····· · · · · · · · · · · · · · · · ·	·····	i								
Endosultan I	532	1	ug/Kg	U	YES	İ	İ	i		i	i	ſ		· · · · · · · · · · · · · · ·						
Endosulfan)	532	·····	ug/Kg	U	YES		·····	· · · · · · ·				i	·····!	! 	·····:		1	1		
andosulfan II	532	1	ug/Kg	U	YEO	·····i·	·····i		·····i		؛ ا	······i	 I		·····		۸ ا	،، ا		
Endosulfan II	532		ug/Kg	U	YES	·····		 	······	·········	i	······'	······ {			±٤		'' 1	······	
Endosulfan sulfale	532		ид/Кд	U	YES	1		·····	·····		1] ا		יי ו	!. }		یل ا	؛؛ ا	!	•••••
Endosulfan sulfale	532	·····	ug/Kg	υİ	YES		• • • • • • • • • • • •	¦	·····		······				·····,		<i></i>	·····!	! ا	••••

Project Number and Name: 11-032E - 11-032E Carroll Agent Orange Library Used: CampCarroll ADR 82 Roport Date: 0/6/2011 09:53

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Client Sample ID : E11-145-S2 Sample Date : 07/17/2011

Lab Sample ID: 31101889030

Reviewed By / Date :							Арр	rovec	i By /	Date :								•••		
Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overali Quai*	Temp	нт	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	icv	CV/ CCV
Analysis Method : 8081					Diluti	on: 50			• •• •• • • • • • •											
Endrin	532		ug/Kg	Ų	YES				l		1		l					{		1
Endrin	532		ug/Kg	U	YES	;				1					1	•••••				
Endrin aldehyde	532		ug/Kg	V	YES	:			1				1						1	
Endrin aldehyde	532		ug/Kg	U	YES				1		Į				/					
Endrin kelone	532		ug/Kg	U	YES	i l					({								1
Endrin kelone	532		ug/Kg	U	YES		1												[1
gamma-BHC (Lindane)	532		ug/Kg	U	YES	: 4	1		[1
gamma-BHC (Lindane)	532		ug/Kg	U	YES	}	Ī													1
gamma-Chiordane	532		ug/Kg	υ	YES					[1	1			}				1	
gamma-Chlordane	532		ug/Kg	υ	YES						1	1			/				1	
Heptachlor	532		ug/Kg	U	YES															1
Heptachlor	532		ug/Kg	υ	YES	1							}							
Heptachlor epoxide	532		ug/Kg	U	YES			ĺ							[]					1
Heptachlor epoxide	532		ug/Kg	U	YES	1	1								1					1
Melhoxychlor	532		ug/Kg	U	YES		1													1
Melhoxychlor	532		ug/Kg	U	YES		1													1
Toxaphene	1770		ug/Kg	U	YES	1				5										1
Toxaphene	1770		ug/Kg	U I	YES	1	1										1		1	1

Lab Report Batch : 31101889

Analysis Type: DL

Project Number and Name: 11-032E - 11-032E Carroll Agent Orange Library Used: CampCarroll ADR 8.2 Report Date: 9/6/2011 09:53 * Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

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Lab ID : SGSW

Sample Matrix : SO

Client Sample ID : E11-145-S2

Sample Date : 07/17/2011 Lab Sample ID: 31101889030

Reviewed By / Date :

Approved By / Date :

Lab ID : SGSW

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 Limit	Moist Tot/Dis		Tune	IC	icv	CV / CCV
Analysis Method : 6010C					Dilutio	on: 1					*****									
Arsenic	7.73		mg/kg		YES		1	1						1			1			
Barium	103		mg/kg		YES		į												/	1
Cadmium	1.31		mg/kg		YES	U			U										4	1
Chromium	3.75		mg/kg		YES											•••••			1	1
Lead	19.1		mg/kg		YES		1			1										1
Selenium	0.783		mg/kg	J	YES								••••			•••••				1
Silver	1.05		mg/kg	U	YES														1	1
Analysis Method : 7471B					Dilutio	n: 1											••••••			·
Mercury	0.00293		mg/kg	J	YES					1	1				1				1	1
Analysis Method : 8151					Dilutio	n: 1		••••••							••••				*	
2,4,5-T	0.0172		mg/kg	U	YES				1											1
2,4,5-T	0.0172	ļ	mg/kg	V	YES						1				1				 I	:
2,4,5-TP (Silvex)	0.0172	1	mg/kg	U	YES			1												: 1
2,4,5-TP (Silvex)	0.0172	Ì	mg/kg	U	YES		[1	1						······		·	!•••••
2,4-0	0.0172	1	mg/kg	U	YES }					ĺ		·····	·····	······ 					• • • • • • • • •	
2,4'-D	0.0172	1	mg/kg	U	YES				1		······	i	1	:! 		! ا	······	•••••••		
2,4-D8	0.0172		mg/kg	U	YES				· · · · · · · · · · · · · · · · · · ·		 	······	: 	·		·i	······································		•••••••	 I
2,4-DB	0.0172		mg/kg	U	YES			·····	 		·····	 	<i>:</i> ؛		 i			·····		i [
Dicamba	0.0172		mg/kg	U	YES	1	ĺ	Î		 	······	1		·'				·····		
Dicamba	0.0172		mg/kg	υ	YES	}	·i	 	 	i. 	······	י ו	······	······			······· 			 I
Analysis Method : 8260B		• • • • • • • • • • • • • • • • • • • •			Dilutio	1:1			••••••			•••••		'		•		··· ·· '		
,3,1,2-1 etrachioroethane	4.09		ug/Kg	U	YES	UJ		1		(UJ (1			1	1	~ 			
1.1-Trichloroethane	4 กร		ид/Кд	0	YES	UJ		Ì	1	··	່ ນມ	······	·····	! 	·····	!	••••••	······	·i	
,1,2,2-Tetrachloroethane	4.09	Ì	ug/Kg	υ	YES	IJJ	1	••••••••••••••••••••••••••••••••••••••		·····	UJĮ	t			·····!·	····· 1		י 	!	
1,2-Trichloroelhane	4.09	Ì	ug/Kg	U	YES	UJ			·····	·····	UJ			······	·····?·	•••••	· · · · · · · · ·	نن ا	!! 	
,1-Dichloroethane	4,09		ug/Kg	U	YES	UJ]			····· /· 1	······	UJ			! 	· · · · · · · · · · · · · · · · · · ·	4 4 4		!	1	
, I-Dichloroethene	4.09		ug/Kg	•••••••	YES	υJ			!- 		UJ i	E. 				·····!	Å	! 1	·····!	••••••
				*********				'-					· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		!				·····

Lab Report Batch : 31101889

Analysis Type: RES

5298

Client Sample ID : E11-145-S2 Sample Date : 07/17/2011

Lab Sample ID: 31101889030

Lab Report Batch : 31101889

Analysis Type: RES

		Uncertainty /	Result	Lab	Rep	Overall						Lab		Rep	Molst	Field				CV /
Analyte Name	Result	Error	Units	Qual	Res	Qual*		НT	MB	LCS	MS	Dup	Surr		Tot/Dis		Tune	IC	ICV	ccv
Analysis Method : 8260B					Diluti	on: 1									*****					
1.1-Dichloropropene	4.09		ug/Kg	. U	YES	UJ	1) UJ	(1	1		1			1
1,2,3-Trichlorobenzene	4.09		ug/Kg	U	YES	UJ			1		UJ			(1		1	1	1	1
1,2,3-Trichloropropane	4.09		ug/Kg	U	YES	UJ				1	} UJ	1	1				1	t	1	1
1,2,4-Trichlorobenzene	4.09		ug/Kg	U	YES	UJ			[UJ				1		1	` 		
1,2,4-Trimethylbenzene	4.09		ug/Kg	U	YES	IJJ					UJ	{					1	••••••••••••••••••••••••••••••••••••••		1
1,2-Dibromo-3-chloropropane	24.5		ug/Kg	U	YES	UJ					UJ				1 1		1	` 	1	1
1,2-Dibromoethane	4.09		ug/Kg	U	YES	υJ				'	UJ			••••	·:	*****	!! 	 	! 	. <u>.</u>
1,2-Dichlorobenzene	4.09		ug/Kg	U	YES	IJ					UJ		·!			•••••	!!	····· I	I	1
1,2-Dichloroelhane	4.09		ug/Kg	υ	YES	IJJ	<i>i</i>	·····			UJ		····· /			••••••	1			1
1,2-Dichloropropane	4.09		ug/Kg	U	YES	UJ	1	'' 			: UJ						!! 	•••••	! 	
1,3,5-Trimethylbenzene	4.09		ug/Kg	U	YES	UJ		'۱ ا	! 		UJ.		<u>'</u> ۔۔۔۔، {				!! i	••••••	! 	1
1,3-Dichlorobenzena	4.09		ug/Kg	U	YES	LU		'	····· /	••••	UJ		······	······	! <u>'</u> 		1 3	;	!	1
1,3-Dichloropropane	4.09		ug/Kg	U	YES	UJ		، ا	' 	······	υJ		·····!	! ا				·····		!
1,4-Dichlorobenzene	4.09		ug/Kg	U	YES	UJ	 1	······	'! 	·····/	υJ			·!					'	1
2,2-Dichloropropane	4.09	·····	ug/Kg	U	YES	UJ	 	· 1	'' 	······	υJ	ا ا	یلید. ا					····· ·	·····-!	!
2-Bulanone	20.4		ug/Kg	U	YES	UJ	!		·····;	' 	UJ		. <u>؛</u>	! 		ا ا			·	!
2-Chloroloiuene	4.09		ug/Kg	U	YES :	UJ	·····!	יייייאי. 	، ا	····· · · · · · · · · · · · · · · · ·	UJ		 	!! 				! 		
2-Hexanone	10.2		ug/Kg	υΪ	YES	UJ	·····		·····	·····'	UJ	······	! 				·····.	!! 		!
4-Chioroloiuene	4.09		ug/Kg	υ	YES	LU	•••••	······	····· '	·····!	UJ {	! 1			·····	t		·····!		!
I-Isopropyliciaene	4.09		ug/Kg	υ	YES	UJ I	·····		·····		UJ	····· ¦	·	····· !			1	······		
-Melhyi-2-penlanone	10.2	·····	ug/Kg	u i	YES	LU I	· .		1	1	UJ	L .		······!	••••••		·····	. 1	. 1	i F
Acelone	12.9	·····	ug/Kg	J	YES :	J		<u>ل</u>		·····	J	······	······	!	1	1	1	1	. 1	1
Benzene	4.09	·····	ug/Kg	U	YEC :		·····	······	t. I		UJ	!		E	·······	••••••				! #
Bromobenzene	4.09	·	ug/Kg	U I	YES		 1	·····	·····¦.		UJ	t	·····		·····!·			1		: r
Bromochloromelhane	4.09	· · · · · · · · · · · · · · · · · · ·	ug/Kg	Ū	YES	- UJ		·····			UJ		·····		······¦·	t	····· 4	·····-		
romodichloromelhane	4.09	•••••••••••••••••••••••••••••••••••••••	ug/Kg	U	YES	UJ	· · · · · · · · .		·····¦·	!	- UJ			·····.	•••••••				!	

Project Number and Name: 11-032E - 11-032E Carroll Agent Orange Library Used: CampCarroll ADR 8.2 Roport Date: 0/6/2011 00:53

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

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Lab ID : SGSW

Sample Matrix : SO

Client Sample ID : E11-145-S2 Sample Date : 07/17/2011

Lab Sample ID: 31101889030

Lab Report Batch : 31101889

Analysis Type: RES

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	нт	мв	LCS	MS	Lab Dup	Surr	Rep	Moist Tot/Dis		Tune	IC	ICV	CV/
Analysis Method : 8260B					Dilutio							Cup		6-914 HIL	100013	40	14(10		169	
Bromoform	4.09		ug/Kg	υ	YES	UJ	1		1	1	UJ UJ	, 					t.		 I	1
Bromomethane	4.09		ug/Kg	U	YES	UJ				/ 	UJ				!!		1	<i></i>	!	·
Carbon disulfide	4.09		ug/Kg	Ų	YES	ยม				ບັນ	1 UJ	• •	¦	•••••	!!					
Carbon tetrachloride	4.09		ug/Kg	U	YES	τIJ		•••••		 I	1 101	<u></u>			1		l			1
Chlorobenzene	4.09		ug/Kg	U	YES	IJ			1	! 		! !			!!				1	1
Chloroethane	4.09	••••••	ug/Kg	U	YES	UJ	·····	•••••	! 	!	UJ	<u>.</u>			!/ 1 3	•••••	!/		<u>.</u>	[
Chloroform	4.09	•••••	ug/Kg	U	YES	LU			'	! 	UJ	' 					!		1	1
Chloromethane	4.09		ug/Kg	U	YES	IJ	!		'	! 	UJ		·				!! !		1	
cis-1,2-Dichloroethene	4.09		ug/Kg		YES	τIJ	······			!	UJ		,	•••••	i i i				l	!
cis-1,3-Dichloropropene	4.09		ug/Kg	U	YES	UJ	1	·····		! 	UJ .	l		••••••	1¥			•••••		1
Dibromochloromethane	4.09		ug/Kg	Ų	YES	UJ	!	······		1	UJ					••••••			!	ļ
Dibromomethane	4,09	••••••	ug/Kg		YES	UJ	·!	·····			UJ				[· - · · · · · · · ·	ļ	
Dichlorodifluoromethane	4,09	••••••	ug/Kg	υ	YES	UJ	!	ا۔۔۔۔۔،۔ ا			UJ		! ;	!						!
Ethyl Benzenø	4.09		ug/Kg	U	YES		 		 	••••••	03	!	······!				·····		<u>k</u>	<u> </u>
Hexachlorobutadiene	4.09	••••••	ug/Kg	U	YES							! 				<u> </u>				!
sopropylbenzene (Cumene)	4.09	·····	ug/Kg		YES				لا ا	····· ·····	UJ	······	·····	·····			·····			
n,p-Xylene	8.17	·····	ug/Kg	U	YES		· · · · · · · · · · · · · · · · · · ·	E	!!	!! 							····· ·.!		(! I
Aethyl iodide	4.09		ug/Kg	U	YES	UJ I			!!	י י ניט		t				·····	·····		·	
Methylene chloride	2.29		ug/Kg		YES	J	•••		1		3 1	1	1	.	·····		<u>k</u>		···· · · ·	i
laphthalono	4,09	\$	ug/Ky	U	TES	LU I		¦		·····	UJ	·····.	·····-	!	· · · · · · · · · ·		·····		[
Dutybenzene	4,03		uy/Kg		YES	ียม เ	·····	! 			UJ	·····	·····		· · · · · · · · · · · · · · · · · · ·	1	1	1	1	
-Propylbenzene	4.09	·····	ug/Kg		YES	UJ I	······	۰۰۰۰۰۴ ا			UJ	····	· · · · · · ¦.		·····			·····		
-Xylene	4.09	·····	и0/Ка	u :	YES	111	· · · · · · · · · ·		t.		UJ I			····· •	••••••			···· ··· ·	1	
ec-Butylbenzene	4.09		ug/Kg	U	YES	UJ	······	¹	·····	د ا	UJ I		;,	·····	······		·····•	····		
ityrene	4.09		ug/Kg	U	YES :	UJ 1			·····		- 03	·····;				!		·····;		
art-Buly/ methyl ether (MTBE)	4.09		ug/Kg		YES	UJ		·····.	t	·····	- UJ	······		·····.						

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