то:	Matthew Morris, PE, Washington State Department of Ecology
CC:	Amy Sikora, Washington State Department of Natural Resources
FROM:	Sierra Mott and Eric Weber, LHG, CWRE
DATE:	January 13, 2020
RE:	Fourth Quarter 2019 Groundwater Monitoring Results Webster Nursery Site, Site ID 3380 Tumwater, Washington Project No. 0774006.040.045

# Introduction

This technical memorandum summarizes the results of quarterly groundwater monitoring completed by Landau Associates, Inc. (LAI) at the Washington State Department of Natural Resources (DNR) Webster Nursery site, a former pesticide-storage warehouse in Tumwater, Washington (site; Figure 1). The site is associated with past releases of organochlorine pesticides to soil and groundwater. Constituents of concern include the organochlorine pesticides heptachlor epoxide (HE; breakdown product of heptachlor) and technical chlordane.

Remedial action excavation and disposal of HE-contaminated soil were completed in August 2018. A summary of the remedial action is provided in a draft Cleanup Action Completion Report (LAI 2018).

# **Groundwater Monitoring Summary**

Fourth quarter 2019 (4Q19) groundwater monitoring was completed on November 19, 2019. Groundwater monitoring was completed in accordance with the framework established by Washington State Department of Ecology (Ecology) Agreed Order No. DE 00TCP-SR295, the Remedial Action Work Plan (LAI 2017), and the Compliance Monitoring Plan (LAI 2019). Groundwater samples were collected from two wells (SW-10R and SW-11R). Analytical Resources, Inc. of Tukwila, Washington analyzed groundwater samples for organochlorine pesticides using U.S. Environmental Protection Agency Method 8081A low-level.

Groundwater samples were collected with a peristaltic pump and dedicated tubing using low-flow groundwater sampling procedures. Low-flow groundwater monitoring consists of measuring the depth-to-water with an electronic groundwater level indicator, monitoring field parameters with a YSI 554 multi-parameter probe, and measuring turbidity with a handheld meter. One duplicate sample (SW-99 at SW-11R) was collected for quality control purposes.

# **Groundwater Monitoring Results**

Groundwater monitoring results are summarized below:



- HE was detected in SW-10R at a concentration of 0.346 micrograms per liter ( $\mu$ g/L). This concentration exceeds the cleanup level (CUL; 0.0048  $\mu$ g/L)
- HE was detected in SW-11R at a concentration of 0.0027  $\mu$ g/L, below the CUL. HE was detected in the SW-11R duplicate sample at a concentration of 0.0022  $\mu$ g/L, also below the CUL
- Cis-chlordane, endosulfan II, and trans-chlordane were detected in SW-10R at concentrations of 0.0335 μg/L, 0.0046 μg/L, and 0.0605 μg/L, respectively. These analytes are not generally detected above the laboratory reporting limit at this site, and there are no CULs.

November 2019 organochlorine pesticide data are provided in Table 1, and the laboratory data package is provided in Attachment 1. Time series data of recent HE concentrations in groundwater at SW-10R and SW-11R (dating back to January 2010) are presented on Figure 3.

Groundwater elevations at SW-10R and SW-11R were 180.96 and 180.62 feet mean sea level, respectively. This represents an approximate 0.2 foot variation from the previous monitoring event, completed in August 2019. Depth-to-water and groundwater elevation data are provided in Table 2 and SW-10R groundwater elevation data collected since the remedial action is shown on Figure 3.

# **Environmental Information Management Submittal**

An Environmental Information Management submittal is required. The submittal will be completed in winter 2020, after this technical memorandum has been submitted to Ecology.

LANDAU ASSOCIATES, INC.

Sierra Mott Senior Project Scientist

Evic Ward

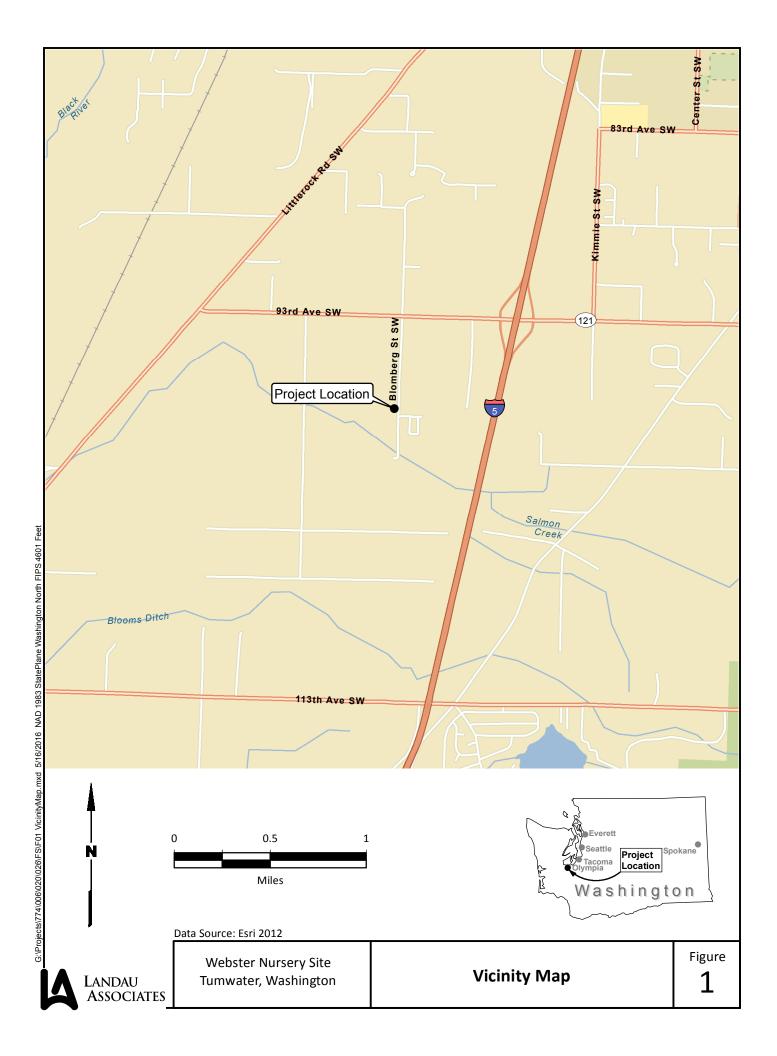
Eric Weber, LHG, CWRE Principal

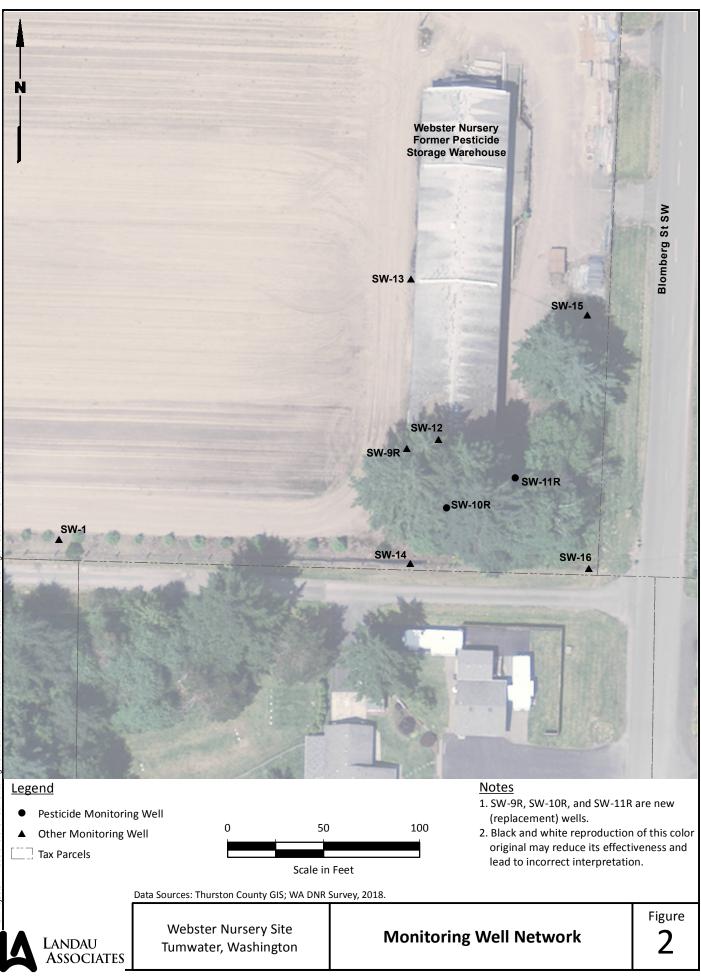
SMM/EFW/kjg [Y:\774\006\r\Quarterly gw monitoring reports\4Q19\webster nursery 4Q19 gw monitoring technical memorandum.docx]

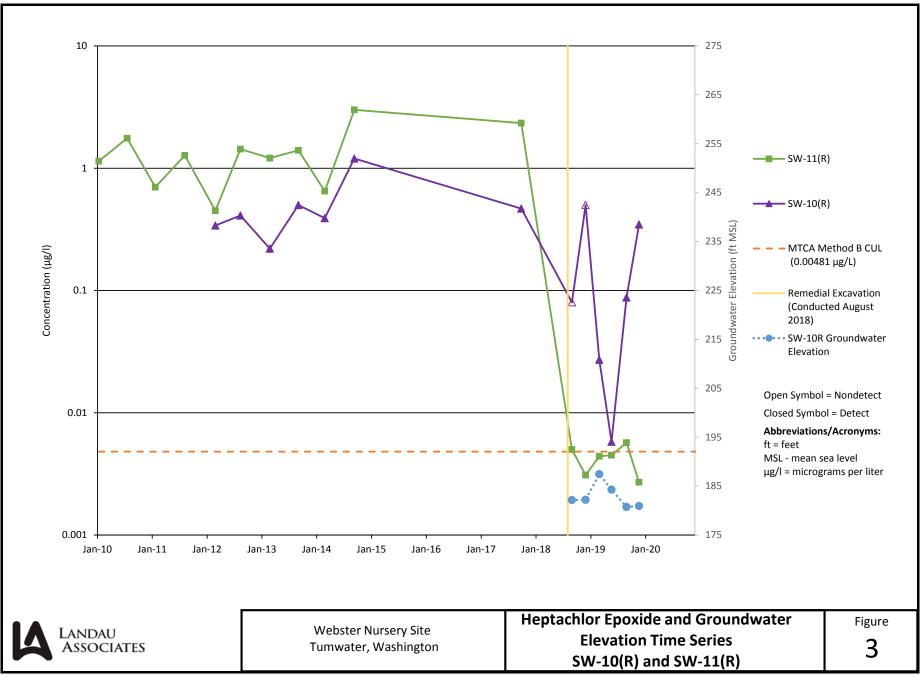
Attachments: Figure 1. Vicinity Map
Figure 2. Monitoring Well Network
Figure 3. Heptachlor Epoxide and Groundwater Elevation Time Series, SW-10(R) and SW-11(R)
Table 1. Groundwater Analytical Results
Table 2. Groundwater Level Measurements
Attachment 1. November 2019 Laboratory Data Package

# References

- LAI. 2019. Compliance Monitoring Plan, Washington State Department of Natural Resources Webster Nursery, Tumwater, Washington. Landau Associates, Inc. July 24.
- LAI. 2018. Draft Cleanup Action Completion Report, Washington State Department of Natural Resources Webster Nursery, Tumwater, Washington. Landau Associates, Inc. October 12.
- LAI. 2017. Remedial Action Work Plan, Webster Nursery, 9805 Blomberg Street SW, Tumwater, Washington. Landau Associates, Inc. October 31.







#### Table 1 Groundwater Analytical Results Webster Nursery Tumwater, Washington

		Sample Loca	ation, Sample ID, Labo	oratory SDG,		
		Sample Date, and Sample Type				
	MTCA Method B Cleanup	SW-10R	SW-11R	SW-11R		
Analyte	Levels	SW-10R-20191119	SW-11R-20191119	SW-99-20191119		
		19K0305	19K0305	19K0305		
		11/19/2019	11/19/2019	11/19/2019		
	Cancerous	N	N	FD		
Pesticides (µg/L; SW-846 8	081B)					
4,4'-DDD		0.0013 U	0.0013 U	0.0013 U		
4,4'-DDE		0.0013 U	0.0013 U	0.0013 U		
4,4'-DDT		0.0013 U	0.0013 U	0.0013 U		
Aldrin		0.0006 U	0.0006 U	0.0006 U		
alpha-BHC		0.0006 U	0.0006 U	0.0006 U		
beta-BHC		0.0006 U	0.0006 U	0.0006 U		
Chlordane	0.25	0.0050 U	0.0050 U	0.0050 U		
cis-Chlordane		0.0335	0.0006 U	0.0006 U		
delta-BHC		0.0006 U	0.0006 U	0.0006 U		
Dieldrin		0.0013 U	0.0013 U	0.0013 U		
Endosulfan I		0.0006 U	0.0006 U	0.0006 U		
Endosulfan II		0.0046	0.0013 U	0.0013 U		
Endosulfan Sulfate		0.0013 U	0.0013 U	0.0013 U		
Endrin		0.0013 U	0.0013 U	0.0013 U		
Endrin Aldehyde		0.0013 U	0.0013 U	0.0013 U		
Endrin Ketone		0.0013 U	0.0013 U	0.0013 U		
gamma-BHC		0.0006 U	0.0006 U	0.0006 U		
Heptachlor	0.0194	0.0006 U	0.0006 U	0.0006 U		
Heptachlor Epoxide	0.00481	0.346	0.0027	0.0022		
Methoxychlor		0.0063 U	0.0063 U	0.0063 U		
Toxaphene		0.0625 U	0.0625 U	0.0625 U		
trans-Chlordane		0.0605	0.0006 U	0.0006 U		

#### Notes:

-- = cleanup level not applicable

**Bold text** = Indicates detected analyte.

Green Box = Detected concentration is greater than the cleanup level

U = The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

#### Abbreviations and Acronyms:

FD = field duplicate

ID = identification

µg/L = micrograms per liter

MTCA = Model Toxics Control Act

N = primary sample

SDG = sample delivery group

#### Table 2 Groundwater Level Measurements Webster Nursery Tumwater, Washington

Well ID	Top of Casing Elevation (ft)	Depth to Water (ft bgs)	Groundwater Elevation (ft)
SW-10R	193.41	12.45	180.96
SW-11R	192.50	11.88	180.62

#### Notes:

Groundwater elevation data was collected November 19, 2019

#### Abbreviations:

bgs = below ground surface ft = feet ID = identification

ATTACHMENT 1

# **November 2019 Laboratory Data Package**



16 December 2019

Sierra Mott Landau Associates, Inc. - Tacoma 2107 South C Street Tacoma, WA 98402

**RE: Webster Nursery** 

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s) 19K0305 Associated SDG ID(s) N/A

-----

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

Sil Both

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in itrentirety.



LANDAU       Chain-of-Custody       Settle/témonds (425) 778-0907       Spokane (500) 327-27937       Date       11/19/2017       Date       Special Handling Requirements:       Special Handling	9110305					
SW - 99 - 20191119       1130       Ag       2       X       Image: Constraint of the second s	LANDAU ASSOCIATES Chain-of-Cu Record	ustody Seatt	(252) 026 2402	D- 1- 1 (502) 542 1000		Turnaround Time: Standard Accelerated
SW - 99 - 20191119       1130       Ag       2       X       Image: Constraint of the second s	Project Name Webster Nursens	Project No. 77400	16.0.40.045	Ju go Testi	ng Parameters	
SW - 99 - 20191119       1130       Ag       2       X       Image: Constraint of the second s	Project Location/Event Olympia, WA Sampler's Name Fettie Gauglitz	Autority 3	amping	and the second		/ /
SW - 99 - 20191119       1130       Ag       2       X       Image: Constraint of the second s	Project Contact EYIC Weber, Sie	+ D Transance	en Sa	6 00		
SW - 99 - 20191119       1130       Ag       2       X       Image: Constraint of the second s	Send Results to CONCLOSE, Send Results to	1, p. Jugeris	No. of	2		
SW - 99 - 20191119       1130       Ag       2       X       Image: Constraint of the second s	Sample I.D. Date	Time Matrix	Containers			Observations/Comments
Image: Constraint of the state of the st	SW-10R-20191119 SW-11R-20191119 SW-99-20191119	1130 Ag	222 AXX			aliquot from clear portion
	10W-20191119	1200 Ag	3 X X	<		
Image: Series of the series						Dissolved metal samples were field filtered
					Ot	her
						-
						75
Relinquished by Received by Received by Received by Received by		Received by	$\langle \bigcirc \rangle$	Relinquished by	Re	ceived by
Signature Kotti M. Jourgan Signature Signature Signature Signature	Signature Vary Janguy				-	
Printed Name Company Lang Printed Name Kenny Lang Printed Name Printed Name Printed Name Company Company ART Company C	Printed Name FUIL OulerAL	Printed Name K-env	J		1, 1, 10, 10, 10, 10, 10, 10, 10, 10, 10	
Company         Company         Company         Company         Company         Company           Date         11/20/19         Time         0910         Date         Time         Date         Time         Date         Time         Time         Date         Time         Time         Date         Time         Time         Date         Time         Ti	Date 11 20 19 Time 9:10	Date 11/20/19				

WHITE COPY - Laboratory

YELLOW COPY - Project File



Landau Associates, Inc Tacoma	Project: Webster Nursery	
2107 South C Street	Project Number: Webster Nursery	Reported:
Tacoma WA, 98402	Project Manager: Sierra Mott	16-Dec-2019 15:57
	ANALYTICAL REPORT FOR SAMPLES	

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW-10R-20191119	19K0305-01	Water	19-Nov-2019 10:25	20-Nov-2019 09:10
SW-11R-20191119	19K0305-02	Water	19-Nov-2019 11:25	20-Nov-2019 09:10
SW-99-20191119	19K0305-03	Water	19-Nov-2019 11:30	20-Nov-2019 09:10
IDW-20191119	19K0305-04	Water	19-Nov-2019 12:00	20-Nov-2019 09:10

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Project: Webster Nursery Project Number: Webster Nursery Project Manager: Sierra Mott **Analytical Report** 

**Reported:** 16-Dec-2019 15:57

### Work Order Case Narrative

#### Total Metals - EPA Method 6020A

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The LCS percent recoveries were within control limits.

#### Pesticides - EPA Method SW8081B

The sample(s) were extracted and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

Internal standard areas were within limits.

The surrogate percent recoveries were within control limits.

The method blank(s) were clean at the reporting limits.

The LCS percent recoveries were within control limits.

Sample 19K0305-01 was analyzed at a dilution due to matrix effects.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Analytical Resources, Incorporated Analytical Chemists and Consultants	Cooler Rece	eipt Fo	orm	
ARI Client: Landau Tacama	Project Name: Webster	Nurse	ry	
COC No(s):(NA)	Delivered by: Fed-Ex UPS Courier	Hand Delivered	d Other:	
Assigned ARI Job No: 19160305	Tracking No:			NA
Preliminary Examination Phase:				
Were intact, properly signed and dated custody seals attached to the	outside of the cooler?	YE	s (	NO
Were custody papers included with the cooler?		<b>VE</b>		NO
Were custody papers properly filled out (ink, signed, etc.)		VE.	S	NO
Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistr			6	NO
Time 1000	4.5 1.5			
If cooler temperature is out of compliance fill out form 00070F		emp Gun ID#:	000 520	G
Cooler Accepted by: KO D	ate: 11/20/19 Time:			
	attach all shipping documents			
Log-In Phase:				
Was a temperature blank included in the cooler?			(To)	NO
-	Wet Ice Gel Packs Baggies Foam Blo	ack Banar Other	YES	NO
Was sufficient ice used (if appropriate)?	$\bigcirc$	NA	YES	NO
How were bottles sealed in plastic bags?		Individually	Grouped	Nob
Did all bottles arrive in good condition (unbroken)?		marriadaliy	YES	NO
Were all bottle labels complete and legible?			YES	NO
Did the number of containers listed on COC match with the number			VES	NO
Did all bottle labels and tags agree with custody papers?			WES	NO
Were all bottles used correct for the requested analyses?			YES	NO
Do any of the analyses (bottles) require preservation? (attach prese		NA	YES	NO
Were all VOC vials free of air bubbles?		(NA)	YES	NO
Was sufficient amount of sample sent in each bottle?		$\bigcirc$	YES	NO
Date VOC Trip Blank was made at ARI		(NA)	G	0.0170
Were the sample(s) split (NA) YES Date/Time:	Equipment:	<u> </u>	Split by:	
1 -	Time: <u>124</u> Label	ls checked by: 💋	is	

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC
Additional Notes, Discrepancies, & Sampling date r	Resolutions: 16t On COC	, listed as	11/19/19 Gn contai
a a 00	URDIA		

Cooler Receipt Form



WORK ORDER

# 19K0305

Client: Landau Associates, Inc. - Tacoma

Project Number: Webster Nursery

Project Manager: Kelly Bottem

**Project: Webster Nursery** 

# **Preservation Confirmation**

Container ID	Container Type	рН	
19K0305-01 A	Glass NM, Amber, 1000 mL		
19K0305-01 B	Glass NM, Amber, 1000 mL		
19K0305-02 A	Glass NM, Amber, 1000 mL		
19K0305-02 B	Glass NM, Amber, 1000 mL		
19K0305-03 A	Glass NM, Amber, 1000 mL		
19K0305-03 B	Glass NM, Amber, 1000 mL		
19K0305-04 A	Glass NM, Amber, 1000 mL		
19K0305-04 B	Glass NM, Amber, 1000 mL		
19K0305-04 C	HDPE NM, 500 mL, 1:1 HNO3	62	10.55

In to

Preservation Confirmed By

11/10/19



Landau Associates, Inc. - Tacoma 2107 South C Street Tacoma WA, 98402 Project: Webster Nursery Project Number: Webster Nursery Project Manager: Sierra Mott

**Reported:** 16-Dec-2019 15:57

#### SW-10R-20191119

19K0305-01 (Water)

Method: EPA 8081B					S	ampled: 1	1/19/2019 10:25
Instrument: ECD6 Anal	yst: YZ				Aı	nalyzed: 12	2/03/2019 16:43
Sample Preparation:	Preparation Method: EPA 3510C SepF Preparation Batch: BHK0698 Prepared: 26-Nov-2019	Sample Size: 10 Final Volume: (		Extract ID: 19K0305-01 B			PK0305-01 B 01
Sample Cleanup:	ple Cleanup: Cleanup Method: Silica Gel Cleanup Batch: CHL0008 Cleaned: 02-Dec-2019	Initial Volume: 0.5 mL Final Volume: 0.5 mL		Extract ID: 19K0305-01			PK0305-01 B 01
Sample Cleanup:	Cleanup Method: Sulfur Cleanup Batch: CHL0007 Cleaned: 02-Dec-2019	Initial Volume: Final Volume: (			Ex	tract ID:19	PK0305-01 B 01
Analyte		CAS Number	Dilution	Reporting Limit	Result	Units	Notes
alpha-BHC		319-84-6	1	0.0006	ND	ug/L	U
beta-BHC		319-85-7	1	0.0006	ND	ug/L	U
gamma-BHC (Lindane)		58-89-9	1	0.0006	ND	ug/L	U
delta-BHC		319-86-8	1	0.0006	ND	ug/L	U
Heptachlor		76-44-8	1	0.0006	ND	ug/L	U
Aldrin		309-00-2	1	0.0006	ND	ug/L	U
Heptachlor Epoxide		1024-57-3	1	0.0006	0.469	ug/L	P1, E
trans-Chlordane (beta-Chlor	rdane)	5103-74-2	1	0.0006	0.0782	ug/L	P1, E
cis-Chlordane (alpha-chlord	lane)	5103-71-9	1	0.0006	0.0335	ug/L	P1
Endosulfan I		959-98-8	1	0.0006	ND	ug/L	U
4,4'-DDE		72-55-9	1	0.0013	ND	ug/L	U
Dieldrin		60-57-1	1	0.0013	ND	ug/L	U
Endrin		72-20-8	1	0.0013	ND	ug/L	U
Endosulfan II		33213-65-9	1	0.0013	0.0046	ug/L	Y1
4,4'-DDD		72-54-8	1	0.0013	ND	ug/L	U
Endrin Aldehyde		7421-93-4	1	0.0013	ND	ug/L	U
4,4'-DDT		50-29-3	1	0.0013	ND	ug/L	U
Endosulfan Sulfate		1031-07-8	1	0.0013	ND	ug/L	U
Endrin Ketone		53494-70-5	1	0.0013	ND	ug/L	U
Methoxychlor		72-43-5	1	0.0063	ND	ug/L	U
Toxaphene		8001-35-2	1	0.0625	ND	ug/L	U
Chlordane (NOS)		57-74-9	1	0.0050	ND	ug/L	U
Surrogate: Decachlorobiph	enyl			30-160 %	112	%	
Surrogate: Decachlorobiph	enyl [2C]			30-160 %		NRS	NRS
Surrogate: Tetrachlorometa	xylene			30-160 %	64.6	%	
Surrogate: Tetrachlorometa	xxvlene [2C]			30-160 %		NRS	NRS

Analytical	Resources,	Inc.
------------	------------	------

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Landau Associates, Inc. - Tacoma 2107 South C Street Tacoma WA, 98402 Project: Webster Nursery Project Number: Webster Nursery Project Manager: Sierra Mott

**Reported:** 16-Dec-2019 15:57

# SW-10R-20191119

19K0305-01RE1 (Water)

<b>Chlorinated Pesticide</b>	es						
Method: EPA 8081B					S	ampled: 11/	/19/2019 10:25
Instrument: ECD6 Anal	yst: YZ				Ar	nalyzed: 12	/13/2019 11:08
Sample Preparation:	Preparation Method: EPA 3510C SepF Preparation Batch: BHK0698 Prepared: 26-Nov-2019	Sample Size: 10 Final Volume: (			Extract 1	D: 19K030	95-01RE1 B 01
Sample Cleanup:	Cleanup Method: Silica Gel Cleanup Batch: CHL0008 Cleaned: 02-Dec-2019	Initial Volume: Final Volume: (			Extract 1	D: 19K030	95-01RE1 B 01
Sample Cleanup:	Cleanup Method: Sulfur Cleanup Batch: CHL0007 Cleaned: 02-Dec-2019	Initial Volume: Final Volume: (			Extract	ID:19K030	95-01RE1 B 01
Analyte		CAS Number	Dilution	Reporting Limit	Result	Units	Notes
alpha-BHC		319-84-6	10	0.0063	ND	ug/L	U
beta-BHC		319-85-7	10	0.0063	ND	ug/L	U
gamma-BHC (Lindane)		58-89-9	10	0.0063	ND	ug/L	U
delta-BHC		319-86-8	10	0.0063	ND	ug/L	U
Heptachlor		76-44-8	10	0.0063	ND	ug/L	U
Aldrin		309-00-2	10	0.0063	ND	ug/L	U
Heptachlor Epoxide		1024-57-3	10	0.0063	0.346	ug/L	P1, D
trans-Chlordane (beta-Chlor	rdane)	5103-74-2	10	0.0063	0.0605	ug/L	D
cis-Chlordane (alpha-chlord	dane)	5103-71-9	10	0.0063	0.0186	ug/L	P1, D
Endosulfan I		959-98-8	10	0.0063	ND	ug/L	U
4,4'-DDE		72-55-9	10	0.0125	ND	ug/L	U
Dieldrin		60-57-1	10	0.0125	ND	ug/L	U
Endrin		72-20-8	10	0.0125	ND	ug/L	U
Endosulfan II		33213-65-9	10	0.0125	ND	ug/L	U
4,4'-DDD		72-54-8	10	0.0125	ND	ug/L	U
Endrin Aldehyde		7421-93-4	10	0.0125	ND	ug/L	U
4,4'-DDT		50-29-3	10	0.0125	ND	ug/L	U
Endosulfan Sulfate		1031-07-8	10	0.0125	ND	ug/L	U
Endrin Ketone		53494-70-5	10	0.0125	ND	ug/L	U
Methoxychlor		72-43-5	10	0.0625	ND	ug/L	U
Surrogate: Decachlorobiph	enyl			30-160 %	64.5	%	
Surrogate: Decachlorobiph	enyl [2C]			30-160 %	89.4	%	
Surrogate: Tetrachlorometa	uxylene			30-160 %	53.2	%	
Surrogate: Tetrachlorometa	xylene [2C]			30-160 %	44.4	%	

Analytical Resources, Inc.	The results in this report apply to the samples analyzed in accordance with the
	chain of custody document. This analytical report must be reproduced in its
	entirety.



Project: Webster Nursery Project Number: Webster Nursery Project Manager: Sierra Mott

**Reported:** 16-Dec-2019 15:57

#### SW-11R-20191119

19K0305-02 (Water)

<b>Chlorinated Pesticide</b>	S							
Method: EPA 8081B					S	ampled: 11/	/19/2019 11:25	
Instrument: ECD6 Anal	yst: YZ				Ar	alyzed: 12/	03/2019 17:01	
Sample Preparation:	Preparation Method: EPA 3510C SepF				Ext	act ID: 19k	K0305-02 B 01	
* *	Preparation Batch: BHK0698	Sample Size: 10	000 mL					
	Prepared: 26-Nov-2019	Final Volume: (	).5 mL					
Sample Cleanup:	Cleanup Method: Silica Gel				Ext	act ID: 19k	K0305-02 B 01	
	Cleanup Batch: CHL0008 Initial Volume: 0.5 mL							
	Cleaned: 02-Dec-2019	Final Volume: (	0.5 mL					
Sample Cleanup:	Cleanup Method: Sulfur				Ext	ract ID:19k	K0305-02 B 01	
	Cleanup Batch: CHL0007	Initial Volume:						
	Cleaned: 02-Dec-2019	Final Volume: (	).5 mL					
				Reporting				
Analyte		CAS Number	Dilution	Limit	Result	Units	Notes	
alpha-BHC		319-84-6	1	0.0006	ND	ug/L	U	
beta-BHC		319-85-7	1	0.0006	ND	ug/L	U	
gamma-BHC (Lindane)		58-89-9	1	0.0006	ND	ug/L	U	
delta-BHC		319-86-8	1	0.0006	ND	ug/L	U	
Heptachlor		76-44-8	1	0.0006	ND	ug/L	U	
Aldrin		309-00-2	1	0.0006	ND	ug/L	U	
Heptachlor Epoxide		1024-57-3	1	0.0006	0.0027	ug/L		
trans-Chlordane (beta-Chlor	rdane)	5103-74-2	1	0.0006	ND	ug/L	U	
cis-Chlordane (alpha-chlord	lane)	5103-71-9	1	0.0006	ND	ug/L	U	
Endosulfan I		959-98-8	1	0.0006	ND	ug/L	U	
4,4'-DDE		72-55-9	1	0.0013	ND	ug/L	U	
Dieldrin		60-57-1	1	0.0013	ND	ug/L	U	
Endrin		72-20-8	1	0.0013	ND	ug/L	U	
Endosulfan II		33213-65-9	1	0.0013	ND	ug/L	U	
4,4'-DDD		72-54-8	1	0.0013	ND	ug/L	U	
Endrin Aldehyde		7421-93-4	1	0.0013	ND	ug/L	U	
4,4'-DDT		50-29-3	1	0.0013	ND	ug/L	U	
Endosulfan Sulfate		1031-07-8	1	0.0013	ND	ug/L	U	
Endrin Ketone		53494-70-5	1	0.0013	ND	ug/L	U	
Methoxychlor		72-43-5	1	0.0063	ND	ug/L	U	
Toxaphene		8001-35-2	1	0.0625	ND	ug/L	U	
Chlordane (NOS)		57-74-9	1	0.0050	ND	ug/L	U	
Surrogate: Decachlorobiph	enyl			30-160 %	123	%		
Surrogate: Decachlorobiph	enyl [2C]			30-160 %	144	%		
Surrogate: Tetrachlorometa	xylene			30-160 %	70.1	%		
Surrogate: Tetrachlorometa	xylene [2C]			30-160 %	47.8	%		

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Landau Associates, Inc. - Tacoma 2107 South C Street Tacoma WA, 98402 Project: Webster Nursery Project Number: Webster Nursery Project Manager: Sierra Mott

**Reported:** 16-Dec-2019 15:57

#### SW-99-20191119

19K0305-03 (Water)

Method: EPA 8081B					S	ampled: 1	1/19/2019 11:30
Instrument: ECD6 Anal	lyst: YZ				Aı	nalyzed: 12	2/03/2019 17:19
Sample Preparation:	Preparation Method: EPA 3510C SepF Preparation Batch: BHK0698 Prepared: 26-Nov-2019	Sample Size: 10 Final Volume: (		Ext	ract ID: 19	9K0305-03 B 01	
Sample Cleanup:	Cleanup Method: Silica Gel Cleanup Batch: CHL0008 Cleaned: 02-Dec-2019	Initial Volume: Final Volume: (		Extract ID: 19K0305-03 B 0			
Sample Cleanup:	Cleanup Method: Sulfur Cleanup Batch: CHL0007 Cleaned: 02-Dec-2019	Initial Volume: Final Volume: (			Ex	tract ID:19	9K0305-03 B 01
Analyte		CAS Number	Dilution	Reporting Limit	Result	Units	Notes
alpha-BHC		319-84-6	1	0.0006	ND	ug/L	U
beta-BHC		319-85-7	1	0.0006	ND	ug/L	U
gamma-BHC (Lindane)		58-89-9	1	0.0006	ND	ug/L	U
delta-BHC		319-86-8	1	0.0006	ND	ug/L	U
Heptachlor		76-44-8	1	0.0006	ND	ug/L	U
Aldrin		309-00-2	1	0.0006	ND	ug/L	U
Heptachlor Epoxide		1024-57-3	1	0.0006	0.0022	ug/L	P1
trans-Chlordane (beta-Chlo	rdane)	5103-74-2	1	0.0006	ND	ug/L	U
cis-Chlordane (alpha-chlord	dane)	5103-71-9	1	0.0006	ND	ug/L	U
Endosulfan I		959-98-8	1	0.0006	ND	ug/L	U
4,4'-DDE		72-55-9	1	0.0013	ND	ug/L	U
Dieldrin		60-57-1	1	0.0013	ND	ug/L	U
Endrin		72-20-8	1	0.0013	ND	ug/L	U
Endosulfan II		33213-65-9	1	0.0013	ND	ug/L	U
4,4'-DDD		72-54-8	1	0.0013	ND	ug/L	U
Endrin Aldehyde		7421-93-4	1	0.0013	ND	ug/L	U
4,4'-DDT		50-29-3	1	0.0013	ND	ug/L	U
Endosulfan Sulfate		1031-07-8	1	0.0013	ND	ug/L	U
Endrin Ketone		53494-70-5	1	0.0013	ND	ug/L	U
Methoxychlor		72-43-5	1	0.0063	ND	ug/L	U
Toxaphene		8001-35-2	1	0.0625	ND	ug/L	U
Chlordane (NOS)		57-74-9	1	0.0050	ND	ug/L	U
Surrogate: Decachlorobiph	enyl			30-160 %	109	%	
Surrogate: Decachlorobiph	enyl [2C]			30-160 %		NRS	NRS
Surrogate: Tetrachlorometa	xylene			30-160 %	67.0	%	
Surrogate: Tetrachlorometa	uxvlene [2C]			30-160 %		NRS	NRS

Analytical	Resources,	Inc.
------------	------------	------

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Project: Webster Nursery Project Number: Webster Nursery Project Manager: Sierra Mott

**Reported:** 16-Dec-2019 15:57

### IDW-20191119

19K0305-04 (Water)

<b>Chlorinated Pesticide</b>	'S								
Method: EPA 8081B					Sa	ampled: 11/	/19/2019 12:00		
Instrument: ECD6 Anal	yst: YZ				An	alyzed: 12/	03/2019 17:37		
Sample Preparation:	Preparation Method: EPA 3510C SepF Preparation Batch: BHK0698 Prepared: 26-Nov-2019	Sample Size: 1 Final Volume: (			Extr	act ID: 19k	K0305-04 B 01		
Sample Cleanup:	Cleanup Method: Silica Gel Cleanup Batch: CHL0008 Cleaned: 02-Dec-2019	Initial Volume: Final Volume: (			Extract ID: 19K0305-04 B (				
Sample Cleanup:	Cleanup Method: Sulfur Cleanup Batch: CHL0007 Cleaned: 02-Dec-2019	Initial Volume: Final Volume: (			Ext	ract ID:19F	K0305-04 B 01		
Analyte		CAS Number	Dilution	Reporting Limit	Result	Units	Notes		
alpha-BHC		319-84-6	1	0.0006	ND	ug/L	U		
beta-BHC		319-85-7	1	0.0006	ND	ug/L	U		
gamma-BHC (Lindane)		58-89-9	1	0.0006	ND	ug/L	U		
delta-BHC		319-86-8	1	0.0006	ND	ug/L	U		
Heptachlor		76-44-8	1	0.0006	ND	ug/L	U		
Aldrin		309-00-2	1	0.0006	ND	ug/L	U		
Heptachlor Epoxide		1024-57-3	1	0.0006	0.0103	ug/L	P1		
trans-Chlordane (beta-Chlor	rdane)	5103-74-2	1	0.0006	ND	ug/L	U		
cis-Chlordane (alpha-chlord	lane)	5103-71-9	1	0.0006	ND	ug/L	U		
Endosulfan I		959-98-8	1	0.0006	ND	ug/L	U		
4,4'-DDE		72-55-9	1	0.0013	ND	ug/L	U		
Dieldrin		60-57-1	1	0.0013	ND	ug/L	U		
Endrin		72-20-8	1	0.0013	ND	ug/L	U		
Endosulfan II		33213-65-9	1	0.0013	ND	ug/L	U		
4,4'-DDD		72-54-8	1	0.0013	ND	ug/L	U		
Endrin Aldehyde		7421-93-4	1	0.0013	ND	ug/L	U		
4,4'-DDT		50-29-3	1	0.0013	ND	ug/L	U		
Endosulfan Sulfate		1031-07-8	1	0.0013	ND	ug/L	U		
Endrin Ketone		53494-70-5	1	0.0013	ND	ug/L	U		
Methoxychlor		72-43-5	1	0.0063	ND	ug/L	U		
Toxaphene		8001-35-2	1	0.0625	ND	ug/L	U		
Chlordane (NOS)		57-74-9	1	0.0050	ND	ug/L	U		
Surrogate: Decachlorobiph	enyl			30-160 %	105	%			
Surrogate: Decachlorobiph	enyl [2C]			30-160 %	142	%			
Surrogate: Tetrachlorometa	xylene			30-160 %	72.3	%			
Surrogate: Tetrachlorometa	xylene [2C]			30-160 %	66.5	%			

Analytical Resources, In	ıc.
--------------------------	-----

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Landau Associates, Inc. - Tacoma 2107 South C Street Tacoma WA, 98402

Project: Webster Nursery Project Number: Webster Nursery Project Manager: Sierra Mott

**Reported:** 16-Dec-2019 15:57

#### IDW-20191119

19K0305-04 (Water)

Metals and Metallic (	Compounds							
Method: EPA 6020A						S	ampled: 11/	19/2019 12:00
Instrument: ICPMS2 Ar	alyst: MCB					Ar	nalyzed: 11/	25/2019 21:37
Sample Preparation:	Preparation Method: REN EPA 600/4-7 Preparation Batch: BHK0599 Prepared: 21-Nov-2019	9-020 4.1.4 HNO3 matri Sample Size: 2 Final Volume: 2	5 mL			Ext	ract ID: 19F	K0305-04 C 01
Analyte		CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Barium		7440-39-3	1	0.0560	0.500	7.22	ug/L	
Chromium		7440-47-3	1	0.130	0.500	0.481	ug/L	J
Lead		7439-92-1	1	0.0680	0.100	ND	ug/L	U
Silver		7440-22-4	1	0.0170	0.200	ND	ug/L	U

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Project: Webster Nursery Project Number: Webster Nursery Project Manager: Sierra Mott

**Reported:** 16-Dec-2019 15:57

#### IDW-20191119

19K0305-04 (Water)

Metals	and	Metallic	Compounds
--------	-----	----------	-----------

Method: EPA 6020A UC	T-KED					S	ampled: 11/	19/2019 12:00
Instrument: ICPMS2 Ar	nalyst: MCB					Aı	nalyzed: 11/2	23/2019 01:45
Sample Preparation:	Preparation Method: REN EPA 600/4-7 Preparation Batch: BHK0599 Prepared: 21-Nov-2019	79-020 4.1.4 HNO3 matri Sample Size: 2 Final Volume: 2	5 mL			Ext	ract ID: 19K	C0305-04 C 01
Analyte		CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Arsenic		7440-38-2	1	0.0220	0.200	0.0870	ug/L	J
Cadmium		7440-43-9	1	0.0300	0.100	ND	ug/L	U
Selenium		7782-49-2	1	0.440	0.500	ND	ug/L	U

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Project: Webster Nursery Project Number: Webster Nursery Project Manager: Sierra Mott

**Reported:** 16-Dec-2019 15:57

#### IDW-20191119

19K0305-04 (Water)

Metals and Metallic (	Compounds							
Method: EPA 7470A						S	ampled: 11/	/19/2019 12:00
Instrument: CVAA Anal	yst: SKM					A	nalyzed: 11/	25/2019 13:13
Sample Preparation:	1	Sample Size: 20 mL Final Volume: 20 mL				Extract ID: 19K0305-04 C		
Analyte		CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Mercury		7439-97-6	1	0.000013	0.000100	ND	mg/L	U

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Landau Associates, Inc. - Tacoma 2107 South C Street Tacoma WA, 98402 Project: Webster Nursery Project Number: Webster Nursery Project Manager: Sierra Mott

**Reported:** 16-Dec-2019 15:57

#### **Chlorinated Pesticides - Quality Control**

#### Batch BHK0698 - EPA 3510C SepF

Instrument: ECD6 Analyst: YZ

	_	Reporting		Spike	Source		%REC	_	RPD	_
QC Sample/Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Blank (BHK0698-BLK1)			Prepa	red: 26-Nov	-2019 Ana	alyzed: 03-I	Dec-2019 14	4:55		
alpha-BHC	ND	0.0006	ug/L							U
beta-BHC	ND	0.0006	ug/L							U
gamma-BHC (Lindane)	ND	0.0006	ug/L							U
delta-BHC	ND	0.0006	ug/L							U
Heptachlor	ND	0.0006	ug/L							U
Aldrin	ND	0.0006	ug/L							U
Heptachlor Epoxide	ND	0.0006	ug/L							U
trans-Chlordane (beta-Chlordane)	ND	0.0006	ug/L							U
cis-Chlordane (alpha-chlordane)	ND	0.0006	ug/L							U
Endosulfan I	ND	0.0006	ug/L							U
4,4'-DDE	ND	0.0013	ug/L							U
Dieldrin	ND	0.0013	ug/L							U
Endrin	ND	0.0013	ug/L							U
Endosulfan II	ND	0.0013	ug/L							U
4,4'-DDD	ND	0.0013	ug/L							U
Endrin Aldehyde	ND	0.0013	ug/L							U
4,4'-DDT	ND	0.0013	ug/L							U
Endosulfan Sulfate	ND	0.0013	ug/L							U
Endrin Ketone	ND	0.0013	ug/L							U
Methoxychlor	ND	0.0063	ug/L							U
Toxaphene	ND	0.0625	ug/L							U
Chlordane (NOS)	ND	0.0050	ug/L							U
Surrogate: Decachlorobiphenyl	0.0214		ug/L	0.0200		107	30-160			
Surrogate: Decachlorobiphenyl [2C]	0.0274		ug/L	0.0200		137	30-160			
Surrogate: Tetrachlorometaxylene	0.0118		ug/L	0.0200		59.1	30-160			
Surrogate: Tetrachlorometaxylene [2C]	0.0151		ug/L	0.0200		75.7	30-160			

LCS (BHK0698-BS1)			Prep	ared: 26-Nov-201	9 Analyzed: 03-	Dec-2019 15:13	
alpha-BHC	0.0086	0.0006	ug/L	0.0100	85.6	30-160	
beta-BHC	0.0088	0.0006	ug/L	0.0100	87.5	30-160	
gamma-BHC (Lindane)	0.0093	0.0006	ug/L	0.0100	93.2	30-160	
delta-BHC	0.0097	0.0006	ug/L	0.0100	96.8	30-160	
Heptachlor	0.0087	0.0006	ug/L	0.0100	86.8	30-160	
Aldrin	0.0083	0.0006	ug/L	0.0100	82.5	30-160	
Heptachlor Epoxide	0.0106	0.0006	ug/L	0.0100	106	30-160	

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Landau Associates, Inc. - Tacoma 2107 South C Street Tacoma WA, 98402 Project: Webster Nursery Project Number: Webster Nursery Project Manager: Sierra Mott

**Reported:** 16-Dec-2019 15:57

#### **Chlorinated Pesticides - Quality Control**

#### Batch BHK0698 - EPA 3510C SepF

Instrument: ECD6 Analyst: YZ

		Reporting		Spike	Source		%REC		RPD	
QC Sample/Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
LCS (BHK0698-BS1)			Prepa	ured: 26-Nov	-2019 A	nalyzed: 03-I	Dec-2019 1	5:13		
trans-Chlordane (beta-Chlordane)	0.0104	0.0006	ug/L	0.0100		104	30-160			
cis-Chlordane (alpha-chlordane)	0.0103	0.0006	ug/L	0.0100		103	30-160			
Endosulfan I	0.0105	0.0006	ug/L	0.0100		105	30-160			
4,4'-DDE	0.0213	0.0013	ug/L	0.0200		106	30-160			
Dieldrin	0.0209	0.0013	ug/L	0.0200		104	30-160			
Endrin	0.0269	0.0013	ug/L	0.0200		135	30-160			
Endosulfan II	0.0264	0.0013	ug/L	0.0200		132	30-160			
4,4'-DDD	0.0281	0.0013	ug/L	0.0200		141	30-160			P1
Endrin Aldehyde	0.0199	0.0013	ug/L	0.0200		99.5	30-160			
4,4'-DDT	0.0287	0.0013	ug/L	0.0200		143	30-160			
Endosulfan Sulfate	0.0296	0.0013	ug/L	0.0200		148	30-160			P1
Endrin Ketone	0.0249	0.0013	ug/L	0.0200		125	30-160			
Methoxychlor	0.143	0.0063	ug/L	0.100		143	30-160			
Surrogate: Decachlorobiphenyl	0.0238		ug/L	0.0200		119	30-160			
Surrogate: Decachlorobiphenyl [2C]	0.0292		ug/L	0.0200		146	30-160			
Surrogate: Tetrachlorometaxylene	0.0130		ug/L	0.0200		65.0	30-160			
Surrogate: Tetrachlorometaxylene [2C]	0.0159		ug/L	0.0200		79.6	30-160			
LCS (BHK0698-BS2)			Prepa	ared: 26-Nov	-2019 A	nalyzed: 03-I	Dec-2019 1	5:49		
Toxaphene	0.134	0.0625	ug/L	0.100		134	30-160			
Surrogate: Decachlorobiphenyl	0.0218		ug/L	0.0200		109	30-160			
Surrogate: Decachlorobiphenyl [2C]	0.0243		ug/L	0.0200		122	30-160			
Surrogate: Tetrachlorometaxylene	0.0124		ug/L	0.0200		62.0	30-160			
Surrogate: Tetrachlorometaxylene [2C]	0.0139		ug/L	0.0200		69.7	30-160			
LCS Dup (BHK0698-BSD1)			Pren	ured: 26-Nov	-2019 A	nalyzed: 03-I	Dec-2019 1	5:31		
alpha-BHC	0.0080	0.0006	ug/L	0.0100		80.0	30-160	6.68	30	
beta-BHC	0.0087	0.0006	ug/L	0.0100		87.0	30-160	0.59	30	
gamma-BHC (Lindane)	0.0087	0.0006	ug/L	0.0100		87.5	30-160	6.35	30	
delta-BHC	0.0094	0.0006	ug/L	0.0100		94.4	30-160	2.56	30	
Heptachlor	0.0081	0.0006	ug/L	0.0100		81.0	30-160	6.85	30	
Aldrin	0.0077	0.0006	ug/L	0.0100		77.0	30-160	6.94	30	
Heptachlor Epoxide	0.0100	0.0006	ug/L	0.0100		100	30-160	5.96	30	
trans-Chlordane (beta-Chlordane)	0.0098	0.0006	ug/L	0.0100		98.1	30-160	6.12	30	
cis-Chlordane (alpha-chlordane)	0.0098	0.0006	ug/L	0.0100		97.8	30-160	5.10	30	

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Landau Associates, Inc. - Tacoma 2107 South C Street Tacoma WA, 98402 Project: Webster Nursery Project Number: Webster Nursery Project Manager: Sierra Mott

**Reported:** 16-Dec-2019 15:57

#### **Chlorinated Pesticides - Quality Control**

#### Batch BHK0698 - EPA 3510C SepF

Instrument: ECD6 Analyst: YZ

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS Dup (BHK0698-BSD1)			Prepa	ared: 26-Nov	-2019 An	nalyzed: 03-l	Dec-2019 1:	5:31		
Endosulfan I	0.0099	0.0006	ug/L	0.0100		99.2	30-160	5.53	30	
4,4'-DDE	0.0201	0.0013	ug/L	0.0200		101	30-160	5.46	30	
Dieldrin	0.0199	0.0013	ug/L	0.0200		99.3	30-160	4.90	30	
Endrin	0.0264	0.0013	ug/L	0.0200		132	30-160	2.06	30	
Endosulfan II	0.0238	0.0013	ug/L	0.0200		119	30-160	10.30	30	
4,4'-DDD	0.0255	0.0013	ug/L	0.0200		127	30-160	9.92	30	
Endrin Aldehyde	0.0187	0.0013	ug/L	0.0200		93.4	30-160	6.22	30	
4,4'-DDT	0.0261	0.0013	ug/L	0.0200		131	30-160	9.31	30	
Endosulfan Sulfate	0.0272	0.0013	ug/L	0.0200		136	30-160	8.23	30	
Endrin Ketone	0.0224	0.0013	ug/L	0.0200		112	30-160	10.50	30	
Methoxychlor	0.130	0.0063	ug/L	0.100		130	30-160	9.42	30	
Surrogate: Decachlorobiphenyl	0.0216		ug/L	0.0200		108	30-160			
Surrogate: Decachlorobiphenyl [2C]	0.0263		ug/L	0.0200		132	30-160			
Surrogate: Tetrachlorometaxylene	0.0115		ug/L	0.0200		57.3	30-160			
Surrogate: Tetrachlorometaxylene [2C]	0.0145		ug/L	0.0200		72.4	30-160			

LCS Dup (BHK0698-BSD2)		Prepared: 26-Nov-2019 Analyzed: 03-Dec-2019 16:07							
Toxaphene	0.133	0.0625	ug/L	0.100	133	30-160	0.80	200	
Surrogate: Decachlorobiphenyl	0.0225		ug/L	0.0200	113	30-160			
Surrogate: Decachlorobiphenyl [2C]	0.0254		ug/L	0.0200	127	30-160			
Surrogate: Tetrachlorometaxylene	0.0125		ug/L	0.0200	62.7	30-160			
Surrogate: Tetrachlorometaxylene [2C]	0.0145		ug/L	0.0200	72.3	30-160			

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Project Number: Webster Nursery Project Nanager: Sierra Mott

**Reported:** 16-Dec-2019 15:57

#### Metals and Metallic Compounds - Quality Control

#### Batch BHK0599 - REN EPA 600/4-79-020 4.1.4 HNO3 matrix

Instrument: ICPMS2 Analyst: MCB

			Detection	Reporting		Spike	Source		%REC		RPD	
QC Sample/Analyte	Isotope	Result	Limit	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Blank (BHK0599-BLK1)					Prepa	ared: 21-Nov	v-2019 Ar	nalyzed: 22-1	Nov-2019 1	7:00		
Chromium	52	ND	0.130	0.500	ug/L							U
Chromium	53	ND	0.0700	0.500	ug/L							U
Lead	208	ND	0.0680	0.100	ug/L							U
Silver	107	ND	0.0170	0.200	ug/L							U
Arsenic	75a	ND	0.0220	0.200	ug/L							U
Cadmium	111	ND	0.0300	0.100	ug/L							U
Cadmium	114	ND	0.0400	0.100	ug/L							U
Blank (BHK0599-BLK2)					Prepa	ared: 21-Nov	7-2019 An	nalyzed: 12-I	Dec-2019 14	4:41		
Barium	135	ND	0.0560	0.500	ug/L							U
Barium	137	ND	0.0530	0.500	ug/L							U
Selenium	78	ND	0.440	0.500	ug/L							U
LCS (BHK0599-BS1)					Prepa	ared: 21-Nov	7-2019 An	nalyzed: 22-1	Nov-2019 1	7:53		
Chromium	52	25.0	0.130	0.500	ug/L	25.0		100	80-120			
Chromium	53	24.1	0.0700	0.500	ug/L	25.0		96.3	80-120			
Lead	208	26.9	0.0680	0.100	ug/L	25.0		108	80-120			
Silver	107	25.5	0.0170	0.200	ug/L	25.0		102	80-120			
Arsenic	75a	24.6	0.0220	0.200	ug/L	25.0		98.4	80-120			
Cadmium	111	25.0	0.0300	0.100	ug/L	25.0		100	80-120			
Cadmium	114	25.6	0.0400	0.100	ug/L	25.0		102	80-120			
LCS (BHK0599-BS2)					Prepa	ared: 21-Nov	7-2019 An	nalyzed: 12-I	Dec-2019 14	4:45		
Barium	135	25.1	0.0560	0.500	ug/L	25.0		100	80-120			
Barium	137	25.0	0.0530	0.500	ug/L	25.0		100	80-120			
Selenium	78	79.2	0.440	0.500	ug/L	80.0		99.0	80-120			

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Landau Associates, Inc. - Tacoma 2107 South C Street Tacoma WA, 98402 Project: Webster Nursery Project Number: Webster Nursery Project Manager: Sierra Mott

**Reported:** 16-Dec-2019 15:57

#### Metals and Metallic Compounds - Quality Control

#### Batch BHK0639 - TWM EPA 7470A

Instrument: CVAA Analyst: SKM

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BHK0639-BLK1)				Prep	ared: 22-Nov	-2019 An	alyzed: 25-	Nov-2019 1	2:59		
Mercury	ND	0.000013	0.000100	mg/L							U
LCS (BHK0639-BS1)				Prep	ared: 22-Nov	-2019 An	alyzed: 25-	Nov-2019 1	3:01		
Mercury	0.00209	0.000013	0.000100	mg/L	0.00200		104	80-120			
Duplicate (BHK0639-DUP1)	5	Source: 19K	(0305-04	Prep	ared: 22-Nov	-2019 An	alyzed: 25-	Nov-2019 1	3:06		
Mercury	ND	0.000013	0.000100	mg/L		ND					U
Matrix Spike (BHK0639-MS1)	5	Source: 19K	0305-04	Prep	ared: 22-Nov	-2019 An	alyzed: 25-	Nov-2019 1	3:08		
Mercury	0.00101	0.000013	0.000100	mg/L	0.00100	ND	101	75-125			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Project: Webster Nursery Project Number: Webster Nursery Project Manager: Sierra Mott

**Reported:** 16-Dec-2019 15:57

#### Certified Analyses included in this Report

Analyte	Certifications
EPA 6020A in Water	
Silver-107	WADOE,WA-DW,DoD-ELAP,NELAP
Barium-135	NELAP,WADOE,DoD-ELAP,ADEC
Barium-137	NELAP,WADOE,DoD-ELAP,ADEC
Chromium-52	NELAP,WADOE,DoD-ELAP,ADEC
Chromium-53	NELAP,WADOE,DoD-ELAP,ADEC
Lead-208	NELAP,WADOE,DoD-ELAP,ADEC
EPA 6020A UCT-KED in Water	
Arsenic-75a	WADOE,WA-DW,DoD-ELAP,ADEC,NELAP
Cadmium-111	NELAP,WADOE,DoD-ELAP,ADEC
Cadmium-114	NELAP,WADOE,DoD-ELAP,ADEC
Selenium-78	NELAP,WADOE,DoD-ELAP
EPA 7470A in Water	
Mercury	WADOE,NELAP,DoD-ELAP,CALAP
EPA 8081B in Water	
alpha-BHC	WADOE,DoD-ELAP,NELAP,CALAP
alpha-BHC [2C]	WADOE,DoD-ELAP,NELAP,CALAP
beta-BHC	WADOE,DoD-ELAP,NELAP,CALAP
beta-BHC [2C]	WADOE,DoD-ELAP,NELAP,CALAP
gamma-BHC (Lindane)	WADOE, DoD-ELAP, NELAP, CALAP
gamma-BHC (Lindane) [2C]	WADOE, DoD-ELAP, NELAP, CALAP
delta-BHC	WADOE, DoD-ELAP, NELAP, CALAP
delta-BHC [2C]	WADOE, DoD-ELAP, NELAP, CALAP
Heptachlor	WADOE, DoD-ELAP, NELAP, CALAP
Heptachlor [2C]	WADOE, DoD-ELAP, NELAP, CALAP
Aldrin	WADOE, DoD-ELAP, NELAP, CALAP
Aldrin [2C]	WADOE, DoD-ELAP, NELAP, CALAP
Heptachlor Epoxide	WADOE, DoD-ELAP, NELAP, CALAP
Heptachlor Epoxide [2C]	WADOE, DoD-ELAP, NELAP, CALAP
trans-Chlordane (beta-Chlordane)	WADOE,DoD-ELAP,NELAP,CALAP
trans-Chlordane (beta-Chlordane) [2C]	WADOE, DoD-ELAP, NELAP, CALAP
cis-Chlordane (alpha-chlordane)	WADOE, DoD-ELAP, NELAP, CALAP
cis-Chlordane (alpha-chlordane) [2C]	WADOE, DoD-ELAP, NELAP, CALAP
Endosulfan I	WADOE, DoD-ELAP, NELAP, CALAP
Endosulfan I [2C]	WADOE, DoD-ELAP, NELAP, CALAP

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



2107 Subit C Street         Project Manager: Stern Mott         Itepuret:           Taxema WA, 9802         Project Manager: Stern Mott         16-Dac-2019 15.57           4.4+DDE [2C]         WADOE DoD-ELAP.NELAP, CALAP         16-Dac-2019 15.57           Dieldrin         WADOE DoD-ELAP.NELAP, CALAP         16-Dac-2019 15.57           Dieldrin         WADOE DoD-ELAP.NELAP, CALAP         16-Dac-2019 15.57           Endrin         WADOE DoD-ELAP.NELAP, CALAP         16-Dac-2019 15.57           Endrin [2C]         WADOE DoD-ELAP.NELAP, CALAP         16-Dac-2019 15.57           Endrin [12]         WADOE DoD-ELAP.NELAP, CALAP         16-Dac-2019 15.57           Endrisulfan II [2C]         WADOE DoD-ELAP.NELAP, CALAP         16-Dac-2019 15.57           Endrisulfan Midelyde         [2C]         WADOE DoD-ELAP.NELAP, CALAP           Endrin Kleine [2C]         WADOE DoD-ELAP.NELAP, CALAP         16-Dac-2019 15.57           Endrisulfan Sulfate [2C]         WADOE DoD-ELAP.NELAP, CALAP         16-Dac-2019 15.57           Endrisulfan Sulfate [2C]         WADOE DoD-ELAP.NELA	Landau Associates, Inc Tacoma	Project: Webster Nursery	
4.4*DDE     WADOE, Dob-ELAP, NELAP, CALAP       4.4*DDE     WADOE, Dob-ELAP, NELAP, CALAP       Dieldrin     WADOE, Dob-ELAP, NELAP, CALAP       Dieldrin     WADOE, Dob-ELAP, NELAP, CALAP       Endrin     WADOE, Dob-ELAP, NELAP, CALAP       Endrin     WADOE, Dob-ELAP, NELAP, CALAP       Endrin     WADOE, Dob-ELAP, NELAP, CALAP       Endrin II     WADOE, Dob-ELAP, NELAP, CALAP       Endosulfan II [2C]     WADOE, Dob-ELAP, NELAP, CALAP       Endosulfan II [2C]     WADOE, Dob-ELAP, NELAP, CALAP       4.4*DDD     WADOE, Dob-ELAP, NELAP, CALAP       Endosulfan II [2C]     WADOE, Dob-ELAP, NELAP, CALAP       4.4*DDD     WADOE, Dob-ELAP, NELAP, CALAP       Endrin Aldehyde     WADOE, Dob-ELAP, NELAP, CALAP       Endrin Aldehyde [2C]     WADOE, Dob-ELAP, NELAP, CALAP       Endrin Sulfate     WADOE, Dob-ELAP, NELAP, CALAP       Endosulfan Sulfate [2C]     WADOE, Dob-ELAP, NELAP, CALAP       Endosulfan Sulfate [2C]     WADOE, Dob-ELAP, NELAP, CALAP       Endrin Ketone [2C]     WADOE, Dob-ELAP, NELAP, CALAP       Methoxychior [2C]     WADOE, Dob-ELAP, NELAP, CALAP       Methoxychior [2C]     WADOE, Dob-ELAP, NELAP, CALAP       Methoxychior [2C]     WADOE, Dob-ELAP, NELAP, CALAP       Hexachlorobenzene     WADOE, Dob-ELAP, NELAP, CALAP       Hexachlorobutadiene [2C]     WADOE, Dob-ELAP, NELAP, CALAP	2107 South C Street	Project Number: Webster Nursery	Reported:
4.4-DDE [2C]WADOE Do D-LAPNELAP.CALAPDieldrinWADOE,Do D-LAPNELAP.CALAPDieldrin [2C]WADOE,Do D-LAPNELAP.CALAPEndrinWADOE,Do D-LAPNELAP.CALAPEndrinWADOE,Do D-LAPNELAP.CALAPEndrin [1C]WADOE,Do D-LAPNELAP.CALAPEndrisulfan IIWADOE,Do D-LAPNELAP.CALAPEndrisulfan IIWADOE,Do D-LAPNELAP.CALAPEndrisulfan IIWADOE,Do D-LAPNELAP.CALAPEndrin AldehydeWADOE,Do D-LAPNELAP.CALAP4.4-DDDWADOE,Do D-LAPNELAP.CALAPEndrin Aldehyde [2C]WADOE,Do D-LAPNELAP.CALAPEndrin Aldehyde [2C]WADOE,Do D-LAP.NELAP.CALAPEndrin Aldehyde [2C]WADOE,Do D-LAP.NELAP.CALAPEndrin Aldehyde [2C]WADOE,Do D-LAP.NELAP.CALAPEndrin Aldehyde [2C]WADOE,Do D-LAP.NELAP.CALAPEndrin Sulfate [2C]WADOE,Do D-LAP.NELAP.CALAPEndrin Sulfate [2C]WADOE,Do D-LAP.NELAP.CALAPEndrin Ketone [2C]WADOE,Do D-LAP.NELAP.CALAPHerkorkolrodualione [2C]WADOE,Do D-LAP.NELAP.CALAP2.4-DDEDo D-ELAP2.4-DDEDo D-ELAP2.4-DDTDo D-ELAP2.4-DDT <t< td=""><td>Tacoma WA, 98402</td><td>Project Manager: Sierra Mott</td><td>16-Dec-2019 15:57</td></t<>	Tacoma WA, 98402	Project Manager: Sierra Mott	16-Dec-2019 15:57
4.4-DDE [2C]WADOE Do D-LAPNELAP.CALAPDieldrinWADOE,Do D-LAPNELAP.CALAPDieldrin [2C]WADOE,Do D-LAPNELAP.CALAPEndrinWADOE,Do D-LAPNELAP.CALAPEndrinWADOE,Do D-LAPNELAP.CALAPEndrin [1C]WADOE,Do D-LAPNELAP.CALAPEndrisulfan IIWADOE,Do D-LAPNELAP.CALAPEndrisulfan IIWADOE,Do D-LAPNELAP.CALAPEndrisulfan IIWADOE,Do D-LAPNELAP.CALAPEndrin AldehydeWADOE,Do D-LAPNELAP.CALAP4.4-DDDWADOE,Do D-LAPNELAP.CALAPEndrin Aldehyde [2C]WADOE,Do D-LAPNELAP.CALAPEndrin Aldehyde [2C]WADOE,Do D-LAP.NELAP.CALAPEndrin Aldehyde [2C]WADOE,Do D-LAP.NELAP.CALAPEndrin Aldehyde [2C]WADOE,Do D-LAP.NELAP.CALAPEndrin Aldehyde [2C]WADOE,Do D-LAP.NELAP.CALAPEndrin Sulfate [2C]WADOE,Do D-LAP.NELAP.CALAPEndrin Sulfate [2C]WADOE,Do D-LAP.NELAP.CALAPEndrin Ketone [2C]WADOE,Do D-LAP.NELAP.CALAPHerkorkolrodualione [2C]WADOE,Do D-LAP.NELAP.CALAP2.4-DDEDo D-ELAP2.4-DDEDo D-ELAP2.4-DDTDo D-ELAP2.4-DDT <t< td=""><td>4,4'-DDE</td><td>WADOE,DoD-ELAP,NELAP,CALAP</td><td></td></t<>	4,4'-DDE	WADOE,DoD-ELAP,NELAP,CALAP	
DeledininWADOE, DoD-ELAP, NELAP, CALAPDieldinin [2C]WADOE, DoD-ELAP, NELAP, CALAPEndrininWADOE, DoD-ELAP, NELAP, CALAPEndrinin [2C]WADOE, DoD-ELAP, NELAP, CALAPEndrinin [1]WADOE, DoD-ELAP, NELAP, CALAPEndrinin [1] (C)WADOE, DoD-ELAP, NELAP, CALAP4,4+DDDWADOE, DoD-ELAP, NELAP, CALAP4,4+DDDWADOE, DoD-ELAP, NELAP, CALAP4,4+DDTWADOE, DoD-ELAP, NELAP, CALAPEndrinining [2C]WADOE, DoD-ELAP, NELAP, CALAPEndrining [2C]WADOE, DoD-ELAP, NELAP, CALAPEndrinining [2C]WADOE, DoD-ELAP, NELAP, CALAPEndrinining [2C]WADOE, DoD-ELAP, NELAP, CALAPEndrinining [2C]WADOE, DoD-ELAP, NELAP, CALAPEndrinining [2C]WADOE, DoD-ELAP, NELAP, CALAPHetaxahlorobutadiene [2C]WADOE, DoD-ELAP, NELAP, CALAPHexachlorobutadiene [2C]WADOE, DoD-ELAP, NELAP, CALAPHexachloro			
EndinWADOE,DoD-ELAP,NELAP,CALAPEndin [J2C]WADOE,DoD-ELAP,NELAP,CALAPEndosulfan IIWADOE,DoD-ELAP,NELAP,CALAPEndosulfan II [J2C]WADOE,DoD-ELAP,NELAP,CALAP4.4'-DDDWADOE,DoD-ELAP,NELAP,CALAPEndin AldehydeWADOE,DoD-ELAP,NELAP,CALAPEndin Aldehyde [J2C]WADOE,DoD-ELAP,NELAP,CALAPEndin Aldehyde [J2C]WADOE,DoD-ELAP,NELAP,CALAP4.4'-DDTWADOE,DoD-ELAP,NELAP,CALAP4.4'-DDT [J2C]WADOE,DoD-ELAP,NELAP,CALAPEndin Aldehyde [J2C]WADOE,DoD-ELAP,NELAP,CALAP4.4'-DDT [J2C]WADOE,DOD-ELAP,NELAP,CALAPEndosulfan SulfateWADOE,DoD-ELAP,NELAP,CALAPEndosulfan Sulfate [J2C]WADOE,DOD-ELAP,NELAP,CALAPEndosulfan Sulfate [J2C]WADOE,DOD-ELAP,NELAP,CALAPEndosulfan Sulfate [J2C]WADOE,DOD-ELAP,NELAP,CALAPEndosulfan Sulfate [J2C]WADOE,DOD-ELAP,NELAP,CALAPEndin Ketone [J2C]WADOE,DOD-ELAP,NELAP,CALAPHetxachlorobutadiene [J2C]WADOE,DOD-ELAP,NELAP,CALAPHexachlorobutadiene [J2C]WADOE,DOD-ELAP,NELAP,CALAPHexachlorobenzene [J2C]WADOE,DOD-ELAP,NELAP,CALAPJ4'-DDE [J2C]DOD-ELAPJ4'-DDTDOD-ELAPJ4'-DDTDOD-ELAPJ4'-DDTDOD-ELAPJ4'-DDTDOD-ELAPJ4'-DDTDOD-ELAPJ4'-DDTDOD-ELAPJ4'-DDTDOD-ELAPJ4'-DDTDOD-ELAPJ4'-DDTDOD-ELAPJ4'-DDTDOD-ELAPJ4'-DDTDOD-ELAPJ4'-DDTDOD-ELAP<	Dieldrin	WADOE, DoD-ELAP, NELAP, CALAP	
Endrin [2C]WADOE,DoD-ELAP,NELAP,CALAPEndosulfan IIWADOE,DoD-ELAP,NELAP,CALAPEndosulfan II [2C]WADOE,DoD-ELAP,NELAP,CALAP44'-DDDWADOE,DoD-ELAP,NELAP,CALAP44'-DDT [2C]WADOE,DoD-ELAP,NELAP,CALAPEndrin Aldehyde [2C]WADOE,DoD-ELAP,NELAP,CALAPEndrin Aldehyde [2C]WADOE,DoD-ELAP,NELAP,CALAP44'-DDTWADOE,DoD-ELAP,NELAP,CALAP44'-DDTWADOE,DoD-ELAP,NELAP,CALAP44'-DDTWADOE,DoD-ELAP,NELAP,CALAPEndrin Aldehyde [2C]WADOE,DoD-ELAP,NELAP,CALAPEndrin Aldehyde [2C]WADOE,DoD-ELAP,NELAP,CALAPEndosulfan Sulfate [2C]WADOE,DoD-ELAP,NELAP,CALAPEndosulfan Sulfate [2C]WADOE,DoD-ELAP,NELAP,CALAPEndrin Ketone [2C]WADOE,DoD-ELAP,NELAP,CALAPMethoxychiorWADOE,DoD-ELAP,NELAP,CALAPHexachlorobutadiene [2C]WADOE,DoD-ELAP,NELAP,CALAPHexachlorobutadiene [2C]WADOE,DoD-ELAP,NELAP,CALAPHexachlorobutadiene [2C]WADOE,DoD-ELAP,NELAP,CALAPHexachlorobutadiene [2C]WADOE,DoD-ELAP,NELAP,CALAPHexachlorobutadiene [2C]WADOE,DoD-ELAP,NELAP,CALAPHexachlorobutadiene [2C]DoD-ELAP2.4'-DDEDoD-ELAP2.4'-DDTDoD-ELAP2.4'-DDTDoD-ELAP2.4'-DDTDoD-ELAP2.4'-DDTDoD-ELAP2.4'-DDTDoD-ELAP2.4'-DDTDoD-ELAP2.4'-DDTDoD-ELAP2.4'-DDTDoD-ELAP2.4'-DDTDoD-ELAPCoxychiordane [2C]DoD-ELAPdis-Nonachlor [2C	Dieldrin [2C]	WADOE,DoD-ELAP,NELAP,CALAP	
Endosulfan IIWADOE,DoD-ELAP,NELAP,CALAPEndosulfan IIWADOE,DoD-ELAP,NELAP,CALAP4.4'-DDDWADOE,DoD-ELAP,NELAP,CALAP4.4'-DDI [2C]WADOE,DoD-ELAP,NELAP,CALAPEndrin AldehydeWADOE,DoD-ELAP,NELAP,CALAPEndrin Aldehyde [2C]WADOE,DoD-ELAP,NELAP,CALAP4.4'-DDTWADOE,DoD-ELAP,NELAP,CALAP4.4'-DDTWADOE,DoD-ELAP,NELAP,CALAP4.4'-DDTWADOE,DoD-ELAP,NELAP,CALAPEndrin Aldehyde [2C]WADOE,DoD-ELAP,NELAP,CALAPEndosulfan SulfateWADOE,DoD-ELAP,NELAP,CALAPEndosulfan Sulfate [2C]WADOE,DoD-ELAP,NELAP,CALAPEndosulfan Sulfate [2C]WADOE,DoD-ELAP,NELAP,CALAPEndrin Ketone [2C]WADOE,DoD-ELAP,NELAP,CALAPMethoxychiorWADOE,DoD-ELAP,NELAP,CALAPHexachlorobutadieneWADOE,DoD-ELAP,NELAP,CALAPHexachlorobutadieneWADOE,DoD-ELAP,NELAP,CALAPHexachlorobutadiene [2C]WADOE,DoD-ELAP,NELAP,CALAPHexachlorobutadiene [2C]WADOE,DoD-ELAP,NELAP,CALAPHexachlorobutadiene [2C]WADOE,DoD-ELAP,NELAP,CALAPHexachlorobutadiene [2C]WADOE,DoD-ELAP,NELAP,CALAP2.4'-DDEDoD-ELAP2.4'-DDE [2C]DoD-ELAP2.4'-DDE [2C]DoD-ELAP2.4'-DDE [2C]DoD-ELAP2.4'-DDE [2C]DoD-ELAP2.4'-DDE [2C]DoD-ELAP2.4'-DDE [2C]DoD-ELAP2.4'-DDE [2C]DoD-ELAP2.4'-DDE [2C]DoD-ELAP2.4'-DDT [2C]DoD-ELAP2.4'-DDT [2C]DoD-ELAPCoxychiordane [2C]DoD-ELAP	Endrin	WADOE,DoD-ELAP,NELAP,CALAP	
Endosulfan II [2C]WADOE,DoD-ELAP,NELAP,CALAP4.4·DDDWADOE,DoD-ELAP,NELAP,CALAP4.4·DDD [2C]WADOE,DoD-ELAP,NELAP,CALAPEndrin AldehydeWADOE,DoD-ELAP,NELAP,CALAPEndrin Aldehyde [2C]WADOE,DoD-ELAP,NELAP,CALAP4.4·DDT [2C]WADOE,DoD-ELAP,NELAP,CALAPEndosulfan SulfateWADOE,DoD-ELAP,NELAP,CALAPEndosulfan SulfateWADOE,DoD-ELAP,NELAP,CALAPEndosulfan SulfateWADOE,DoD-ELAP,NELAP,CALAPEndosulfan SulfateWADOE,DoD-ELAP,NELAP,CALAPEndosulfan SulfateWADOE,DoD-ELAP,NELAP,CALAPEndrin KetoneWADOE,DoD-ELAP,NELAP,CALAPEndrin Ketone [2C]WADOE,DoD-ELAP,NELAP,CALAPMethoxychlorWADOE,DoD-ELAP,NELAP,CALAPHexachlorobutadieneWADOE,DoD-ELAP,NELAP,CALAPHexachlorobutadieneWADOE,DoD-ELAP,NELAP,CALAPHexachlorobutadieneWADOE,DoD-ELAP,NELAP,CALAPHexachlorobutadieneWADOE,DoD-ELAP,NELAP,CALAPHexachlorobutadieneWADOE,DoD-ELAP,NELAP,CALAPHexachlorobutadieneWADOE,DoD-ELAP,NELAP,CALAPHexachlorobutadieneWADOE,DoD-ELAP,NELAP,CALAP1HexachlorobutadieneWADOE,DoD-ELAP,NELAP,CALAP2.4·DDEDoD-ELAP2.4·DDEDoD-ELAP2.4·DDI [2C]DoD-ELAP2.4·DDI [2C]DoD-ELAP2.4·DDI [2C]DoD-ELAP2.4·DDTDoD-ELAP2.4·DDTDoD-ELAP2.4·DDTDoD-ELAP2.4·DDTDoD-ELAP2.4·DDTDoD-ELAP2.4·DDTDoD-ELAP2.4·DDTD	Endrin [2C]	WADOE,DoD-ELAP,NELAP,CALAP	
4.4-DDDWADOE,DoD-ELAP,NELAP,CALAP4.4-DDD [2C]WADOE,DoD-ELAP,NELAP,CALAPEndrin AldehydeWADOE,DoD-ELAP,NELAP,CALAPEndrin Aldehyde [2C]WADOE,DoD-ELAP,NELAP,CALAP4.4-DDTWADOE,DoD-ELAP,NELAP,CALAPEndrin Aldehyde [2C]WADOE,DoD-ELAP,NELAP,CALAPEndosulfan Sulfate [2C]WADOE,DoD-ELAP,NELAP,CALAPEndosulfan Sulfate [2C]WADOE,DoD-ELAP,NELAP,CALAPEndrin Ketone [2C]WADOE,DoD-ELAP,NELAP,CALAPEndrin Ketone [2C]WADOE,DoD-ELAP,NELAP,CALAPMethoxychlorWADOE,DoD-ELAP,NELAP,CALAPHexachlorobutadieneWADOE,DoD-ELAP,NELAP,CALAPHexachlorobutadiene [2C]WADOE,DoD-ELAP,NELAP,CALAPHexachlorobutadiene [2C]WADOE,DoD-ELAP,NELAP,CALAPHexachlorobutadiene [2C]WADOE,DoD-ELAP,NELAP,CALAPHexachlorobutadiene [2C]WADOE,DoD-ELAP,NELAP,CALAPHexachlorobutadiene [2C]WADOE,DoD-ELAP,NELAP,CALAPHexachlorobutadiene [2C]WADOE,DoD-ELAP,NELAP,CALAPHexachlorobutadiene [2C]WADOE,DoD-ELAP,NELAP,CALAPHexachlorobutadiene [2C]WADOE,DoD-ELAP,NELAP,CALAP2.4-DDEDoD-ELAP2.4-DDEDoD-ELAP2.4-DDEDoD-ELAP2.4-DDEDoD-ELAP2.4-DDI [2C]DoD-ELAP2.4-DDTDoD-ELAP2.4-DDTDoD-ELAP2.4-DDT [2C]DoD-ELAP2.4-DDT [2C]DoD-ELAP2.4-DDT [2C]DoD-ELAP2.4-DDT [2C]DoD-ELAP2.4-DDT [2C]DoD-ELAP2.4-DDT [2C]DoD-ELAP2.4	Endosulfan II	WADOE,DoD-ELAP,NELAP,CALAP	
4.4·DDD [2C]WADDE_DD-ELAP,NELAP,CALAPEndrin AldehydeWADDE_DD-ELAP,NELAP,CALAPEndrin Aldehyde [2C]WADDE_DD-ELAP,NELAP,CALAP4.4·DDTWADDE_DD-ELAP,NELAP,CALAP4.4·DDT [2C]WADDE_DD-ELAP,NELAP,CALAPEndosulfan SulfateWADDE_DD-ELAP,NELAP,CALAPEndosulfan Sulfate [2C]WADDE_DD-ELAP,NELAP,CALAPEndosulfan Sulfate [2C]WADDE_DD-ELAP,NELAP,CALAPEndrin Ketone [2C]WADDE_DD-ELAP,NELAP,CALAPMethoxychlorWADDE_DD-ELAP,NELAP,CALAPMethoxychlor [2C]WADDE_DD-ELAP,NELAP,CALAPHexachlorobutadiene [2C]WADDE_DD-ELAP,NELAP,CALAPHexachlorobutadiene [2C]WADDE_DD-ELAP,NELAP,CALAPHexachlorobutadiene [2C]WADDE_DD-ELAP,NELAP,CALAPHexachlorobutadiene [2C]WADDE_DD-ELAP,NELAP,CALAPHexachlorobutadiene [2C]WADDE_DD-ELAP,NELAP,CALAPHexachlorobutadiene [2C]WADDE_DD-ELAP,NELAP,CALAPHexachlorobutadiene [2C]DO-ELAP,NELAP,CALAPHexachlorobutadiene [2C]DO-ELAP,NELAP,CALAP14/-DDE [2C]DO-ELAP,NELAP,CALAP24/-DDE [2C]DO-ELAP24/-DDTDO-ELAP24/-DDT [2C]DO-ELAP24/-DDT [2C]DO-ELAP24/-DDT [2C]DO-ELAP0xychlordane [2C]DO-ELAP0xychlordane [2C]DO-ELAP0xychlordane [2C]DO-ELAP0xychlordane [2C]DO-ELAP0xychlordane [2C]DO-ELAP0xychlordane [2C]DO-ELAP0xychlordane [2C]DO-ELAP0xychlordane [2C]DO-ELAP <t< td=""><td>Endosulfan II [2C]</td><td>WADOE,DoD-ELAP,NELAP,CALAP</td><td></td></t<>	Endosulfan II [2C]	WADOE,DoD-ELAP,NELAP,CALAP	
Endrin AldehydeWADOE,DoD-ELAP,NELAP,CALAPEndrin Aldehyde [2C]WADOE,DoD-ELAP,NELAP,CALAP4,4·DDTWADOE,DoD-ELAP,NELAP,CALAP4,4·DDT [2C]WADOE,DoD-ELAP,NELAP,CALAPEndosulfan SulfateWADOE,DoD-ELAP,NELAP,CALAPEndosulfan Sulfate [2C]WADOE,DoD-ELAP,NELAP,CALAPEndrin Ketone [2C]WADOE,DoD-ELAP,NELAP,CALAPMethoxychlor [2C]WADOE,DoD-ELAP,NELAP,CALAPHexachlorobutadieneWADOE,DoD-ELAP,NELAP,CALAPHexachlorobutadiene [2C]WADOE,DoD-ELAP,NELAP,CALAPHexachlorobutadiene [2C]WADOE,DoD-ELAP,NELAP,CALAPHexachlorobutadiene [2C]WADOE,DoD-ELAP,NELAP,CALAPHexachlorobutadiene [2C]WADOE,DoD-ELAP,NELAP,CALAPHexachlorobutadiene [2C]WADOE,DoD-ELAP,NELAP,CALAPHexachlorobutadiene [2C]WADOE,DoD-ELAP,NELAP,CALAPHexachlorobutadiene [2C]WADOE,DoD-ELAP,NELAP,CALAPHexachlorobenzene [2C]WADOE,DoD-ELAP,NELAP,CALAP2.4·DDE [2C]DoD-ELAP2.4·DDI [2C]DoD-ELAP2.4·DDI [2C]DoD-ELAP2.4·DDI [2C]DoD-ELAP2.4·DDI [2C]DoD-ELAP2.4·DDI [2C]DoD-ELAP2.4·DDI [2C]DoD-ELAP2.4·DDI [2C]DoD-ELAPCixychlordane [2C]DoD-ELAPCixychlordane [2C]DoD-ELAPCixychlordane [2C]DoD-ELAPCixychlordane [2C]DoD-ELAPCixychlordane [2C]DoD-ELAPCixychlordane [2C]DoD-ELAPCixychlordane [2C]DoD-ELAPCixychlordane [2C]DoD-ELAP <td>4,4'-DDD</td> <td>WADOE, DoD-ELAP, NELAP, CALAP</td> <td></td>	4,4'-DDD	WADOE, DoD-ELAP, NELAP, CALAP	
Endrin Aldehyde [2C]WADOE, DoD-ELAP, NELAP, CALAP4.4-DDTWADOE, DoD-ELAP, NELAP, CALAP4.4-DDT [2C]WADOE, DoD-ELAP, NELAP, CALAPEndosulfan Sulfate [2C]WADOE, DoD-ELAP, NELAP, CALAPEndosulfan Sulfate [2C]WADOE, DoD-ELAP, NELAP, CALAPEndrin KetoneWADOE, DoD-ELAP, NELAP, CALAPEndrin Ketone [2C]WADOE, DoD-ELAP, NELAP, CALAPMethoxychlor [2C]WADOE, DoD-ELAP, NELAP, CALAPHexachlorobutadieneWADOE, DoD-ELAP, NELAP, CALAPHexachlorobutadiene [2C]WADOE, DoD-ELAP, NELAP, CALAPHexachlorobutadiene [2C]WADOE, DoD-ELAP, NELAP, CALAPHexachlorobenzene [2C]WADOE, DoD-ELAP, NELAP, CALAP2.4-DDEDoD-ELAP, NELAP, CALAP1.4-X-DDEDoD-ELAP, NELAP, CALAP2.4-DDEDoD-ELAP, NELAP, CALAP2.4-DDEDoD-ELAP2.4-DDTDoD-ELAP2.4-DDTDoD-ELAP2.4-DDTDoD-ELAP2.4-DDTDoD-ELAPCix-Nonachlor [2C]DoD-ELAPCix-Nonachlor [2C]DoD-ELAPCix-Nonachlor [2C]DoD-ELAPCix-Nonachlor [2C]DoD-ELAPCix-Nonachlor [2C]DoD-ELAPMirex [2C]DoD-ELAPMirex [2C]DoD-ELAPMirex [2C]DoD-ELAPMirex [2C]D	4,4'-DDD [2C]	WADOE, DoD-ELAP, NELAP, CALAP	
4.4-DDTWADOE,DoD-ELAP,NELAP,CALAP4.4-DDT [2C]WADOE,DoD-ELAP,NELAP,CALAPEndosulfan SulfateWADOE,DoD-ELAP,NELAP,CALAPEndosulfan Sulfate [2C]WADOE,DoD-ELAP,NELAP,CALAPEndrin KetoneWADOE,DoD-ELAP,NELAP,CALAPEndrin Ketone [2C]WADOE,DoD-ELAP,NELAP,CALAPMethoxychlorWADOE,DoD-ELAP,NELAP,CALAPMethoxychlor [2C]WADOE,DoD-ELAP,NELAP,CALAPHexachlorobutadieneWADOE,DoD-ELAP,NELAP,CALAPHexachlorobutadiene [2C]WADOE,DoD-ELAP,NELAP,CALAPHexachlorobutadiene [2C]WADOE,DoD-ELAP,NELAP,CALAPHexachlorobenzene [2C]WADOE,DoD-ELAP,NELAP,CALAPHexachlorobenzene [2C]DoD-ELAP,NELAP,CALAP2.4-DDEDoD-ELAP2.4-DDTDoD-ELAP2.4-DDT [2C]DoD-ELAP,NELAP,CALAP2.4-DDTDoD-ELAP2.4-DDTDoD-ELAP2.4-DDT [2C]DoD-ELAP2.4-DDT [2C]DoD-ELAP2.4-DDT [2C]DoD-ELAP2.4-DDT [2C]DoD-ELAPCychlordane [2C]DoD-ELAPCychlordane [2C]DoD-ELAPCychlordane [2C]DoD-ELAPCychlordane [2C]DoD-ELAPCychlordane [2C]DoD-ELAPCis-Nonachlor [2C]DoD-ELAPCis-Nonachlor [2C]DoD-ELAPMirexDoD-ELAPMirex [2C]DoD-ELAPMirex [2C]DoD-ELAPMirex [2C]DoD-ELAPMirex [2C]DoD-ELAPMirex [2C]DoD-ELAPMirex [2C]DoD-ELAPMirex [2C]DoD-ELAP <td>Endrin Aldehyde</td> <td>WADOE, DoD-ELAP, NELAP, CALAP</td> <td></td>	Endrin Aldehyde	WADOE, DoD-ELAP, NELAP, CALAP	
4.4-DDT [2C]WADOE,DoD-ELAP,NELAP,CALAPEndosulfan SulfateWADOE,DoD-ELAP,NELAP,CALAPEndosulfan Sulfate [2C]WADOE,DoD-ELAP,NELAP,CALAPEndrin Ketone [2C]WADOE,DoD-ELAP,NELAP,CALAPMethoxychlorWADOE,DoD-ELAP,NELAP,CALAPMethoxychlor [2C]WADOE,DoD-ELAP,NELAP,CALAPHexachlorobutadieneWADOE,DoD-ELAP,NELAP,CALAPHexachlorobutadiene [2C]WADOE,DoD-ELAP,NELAP,CALAPHexachlorobutadiene [2C]WADOE,DoD-ELAP,NELAP,CALAPHexachlorobutadiene [2C]WADOE,DoD-ELAP,NELAP,CALAPHexachlorobutadiene [2C]WADOE,DoD-ELAP,NELAP,CALAPHexachlorobutadiene [2C]WADOE,DoD-ELAP,NELAP,CALAPHexachlorobutadiene [2C]DoD-ELAP,NELAP,CALAP2.4-DDEDoD-ELAP,NELAP,CALAPHexachlorobenzeneWADOE,DoD-ELAP,NELAP,CALAP2.4-DDEDoD-ELAP,NELAP,CALAP2.4-DDE [2C]DoD-ELAP2.4-DDD [2C]DoD-ELAP2.4-DDT [2C]DoD-ELAP2.4-DDT [2C]DoD-ELAP2.4-DDT [2C]DoD-ELAPCoxychlordane [2C]DoD-ELAPCoxychlordane [2C]DoD-ELAPCoxychlordane [2C]DoD-ELAPCis-Nonachlor [2C]DoD-ELAPCis-Nonachlor [2C]DoD-ELAPtrans-Nonachlor [2C]DoD-ELAPtrans-Nonachlor [2C]DoD-ELAPtrans-Nonachlor [2C]DoD-ELAPMirex [2C]DoD-ELAPMirex [2C]DoD-ELAPMirex [2C]DoD-ELAPMirex [2C]DoD-ELAPMirex [2C]DoD-ELAPMirex [2C]<	Endrin Aldehyde [2C]	WADOE, DoD-ELAP, NELAP, CALAP	
Endosulfan SulfateWADOE,DoD-ELAP,NELAP,CALAPEndosulfan Sulfate [2C]WADOE,DoD-ELAP,NELAP,CALAPEndrin KetoneWADOE,DoD-ELAP,NELAP,CALAPEndrin Ketone [2C]WADOE,DoD-ELAP,NELAP,CALAPMethoxychlorWADOE,DoD-ELAP,NELAP,CALAPMethoxychlor [2C]WADOE,DoD-ELAP,NELAP,CALAPHexachlorobutadieneWADOE,DoD-ELAP,NELAP,CALAPHexachlorobutadiene [2C]WADOE,DoD-ELAP,NELAP,CALAPHexachlorobenzeneWADOE,DoD-ELAP,NELAP,CALAPHexachlorobenzene [2C]WADOE,DoD-ELAP,NELAP,CALAP2,4-DDE [2C]DoD-ELAP2,4-DDE [2C]DoD-ELAP2,4-DDE [2C]DoD-ELAP2,4-DDE [2C]DoD-ELAP2,4-DDT [2C]DoD-ELAP1DoD-ELAP1DoD-ELAP1DoD-ELAP1DoD-ELAP1DoD-ELAP1DoD-ELAP1DoD-ELAP1DoD-ELAP1DoD-ELAP1DoD-ELAP1DoD-ELAP1DoD-ELAP1DoD-ELAP1DoD-ELAP1DoD-	4,4'-DDT	WADOE, DoD-ELAP, NELAP, CALAP	
Endosulfan Sulfate [2C]WADOE,DoD-ELAP,NELAP,CALAPEndrin KetoneWADOE,DoD-ELAP,NELAP,CALAPEndrin Ketone [2C]WADOE,DoD-ELAP,NELAP,CALAPMethoxychlorWADOE,DoD-ELAP,NELAP,CALAPMethoxychlor [2C]WADOE,DoD-ELAP,NELAP,CALAPHexachlorobutadieneWADOE,DoD-ELAP,NELAP,CALAPHexachlorobutadiene [2C]WADOE,DoD-ELAP,NELAP,CALAPHexachlorobenzeneWADOE,DoD-ELAP,NELAP,CALAPHexachlorobenzeneWADOE,DoD-ELAP,NELAP,CALAP2,4-DDEJOD-ELAP2,4-DDE [2C]DoD-ELAP2,4-DDTDoD-ELAP2,4-DDTDoD-ELAP2,4-DDT [2C]DoD-ELAP2,4-DDT [2C]DoD-ELAP2,4-DDT [2C]DoD-ELAP2,4-DDT [2C]DoD-ELAP2,4-DDT [2C]DoD-ELAPCis-NonachlorDoD-ELAPcis-NonachlorDoD-ELAPtrans-NonachlorDoD-ELAPtrans-NonachlorDoD-ELAPMirexDoD-ELAPMirexDoD-ELAPMirexDoD-ELAPMirexDoD-ELAPMirexDoD-ELAPMirexDoD-ELAPMirexDoD-ELAPMirexDoD-ELAPMirexDoD-ELAPMirexDoD-ELAPMirexDoD-ELAPMirexDoD-ELAPMirexDoD-ELAPMirexDoD-ELAPMirexDoD-ELAPMirexDoD-ELAPMirexDoD-ELAPMirexDoD-ELAPMirexDoD-ELAP <trr>MirexDoD-ELAP&lt;</trr>	4,4'-DDT [2C]	WADOE, DoD-ELAP, NELAP, CALAP	
Endrin KetoneWADOE,DoD-ELAP,NELAP,CALAPEndrin Ketone [2C]WADOE,DoD-ELAP,NELAP,CALAPMethoxychlorWADOE,DoD-ELAP,NELAP,CALAPMethoxychlor [2C]WADOE,DoD-ELAP,NELAP,CALAPHexachlorobutadiene [2C]WADOE,DoD-ELAP,NELAP,CALAPHexachlorobutadiene [2C]WADOE,DoD-ELAP,NELAP,CALAPHexachlorobenzeneWADOE,DoD-ELAP,NELAP,CALAPHexachlorobenzene [2C]WADOE,DoD-ELAP,NELAP,CALAP2,4-DDEDoD-ELAP,NELAP,CALAP2,4-DDEDoD-ELAP,NELAP,CALAP2,4-DDL [2C]DoD-ELAP,NELAP,CALAP2,4-DDTDoD-ELAP2,4-DDT [2C]DoD-ELAP2,4-DDT [2C]DoD-ELAPOxychlordane [2C]DoD-ELAPOxychlordane [2C]DoD-ELAPCis-Nonachlor [2C]DoD-ELAPCis-Nonachlor [2C]DoD-ELAPCis-Nonachlor [2C]DoD-ELAPMensonachlor [2C]DoD-ELAPMensonachlor [2C]DoD-ELAPMirex [2C]DoD-E	Endosulfan Sulfate	WADOE, DoD-ELAP, NELAP, CALAP	
Endrin Ketone [2C]WADOE,DoD-ELAP,NELAP,CALAPMethoxychlorWADOE,DoD-ELAP,NELAP,CALAPMethoxychlor [2C]WADOE,DoD-ELAP,NELAP,CALAPHexachlorobutadieneWADOE,DoD-ELAP,NELAP,CALAPHexachlorobenzeneWADOE,DoD-ELAP,NELAP,CALAPHexachlorobenzene [2C]WADOE,DoD-ELAP,NELAP,CALAPLexachlorobenzene [2C]WADOE,DoD-ELAP,NELAP,CALAP2,4'-DDEDoD-ELAP,NELAP,CALAP2,4'-DDEDoD-ELAP2,4'-DDDDoD-ELAP2,4'-DD1 [2C]DoD-ELAP2,4'-DD1 [2C]DoD-ELAP2,4'-DD1 [2C]DoD-ELAP0xychlordaneDoD-ELAP0xychlordaneDoD-ELAP0xychlordaneDoD-ELAPcis-Nonachlor [2C]DoD-ELAPis-Nonachlor [2C]DoD-ELAPmarkDoD-ELAPmarkDoD-ELAPis-Nonachlor [2C]DoD-ELAPMirex [2C]<	Endosulfan Sulfate [2C]	WADOE, DoD-ELAP, NELAP, CALAP	
MethoxychlorWADOE,DoD-ELAP,NELAP,CALAPMethoxychlor [2C]WADOE,DoD-ELAP,NELAP,CALAPHexachlorobutadieneWADOE,DoD-ELAP,NELAP,CALAPHexachlorobutadiene [2C]WADOE,DoD-ELAP,NELAP,CALAPHexachlorobenzeneWADOE,DoD-ELAP,NELAP,CALAPHexachlorobenzene [2C]WADOE,DoD-ELAP,NELAP,CALAP2,4'-DDEDoD-ELAP2,4'-DDE [2C]DoD-ELAP2,4'-DDDDoD-ELAP2,4'-DDTDoD-ELAP2,4'-DDTDoD-ELAP2,4'-DDT [2C]DoD-ELAP2,4'-DDT [2C]DoD-ELAP2,4'-DDT [2C]DoD-ELAP2,4'-DDT [2C]DoD-ELAP0xychlordane [2C]DoD-ELAP0xychlordaneDoD-ELAPcis-Nonachlor [2C]DoD-ELAPtrans-Nonachlor [2C]DoD-ELAPtrans-Nonachlor [2C]DoD-ELAPMirexDoD-ELAPMirex [2C]DoD-ELAPMirex [2C]DoD-ELAPToxapheneDoD-ELAP	Endrin Ketone	WADOE, DoD-ELAP, NELAP, CALAP	
Methoxychlor [2C]WADOE,DoD-ELAP,NELAP,CALAPHexachlorobutadieneWADOE,DoD-ELAP,NELAP,CALAPHexachlorobenzeneWADOE,DoD-ELAP,NELAP,CALAPHexachlorobenzene [2C]WADOE,DoD-ELAP,NELAP,CALAP2,4'DDEDoD-ELAP2,4'DDE [2C]DoD-ELAP2,4'DDD [2C]DoD-ELAP2,4'DDTDoD-ELAP2,4'DDT [2C]DoD-ELAP2,4'DDT [2C]DoD-ELAP2,4'DDT [2C]DoD-ELAP2,4'DDT [2C]DoD-ELAP0,4'DDT [2C]DoD-ELAP0,4'DDT [2C]DoD-ELAP0,4'DDT [2C]DoD-ELAP1,4'DDT [2C]DoD-ELAP0,5'chlordane [2C]DoD-ELAP0,5'chlordane [2C]DoD-ELAP1,4'DDT [2C]DoD-ELAP1,4'DDT [2C]DoD-ELAP1,4'DDT [2C]DoD-ELAP1,4'DDT [2C]DoD-ELAP1,4'DTT [2C]DoD-ELAP1,5'sNnachlor [2C]DoD-ELAP	Endrin Ketone [2C]	WADOE, DoD-ELAP, NELAP, CALAP	
HexachlorobutadieneWADOE,DoD-ELAP,NELAP,CALAPHexachlorobutadiene [2C]WADOE,DoD-ELAP,NELAP,CALAPHexachlorobenzeneWADOE,DoD-ELAP,NELAP,CALAPHexachlorobenzene [2C]WADOE,DoD-ELAP,NELAP,CALAP2,4'-DDEDoD-ELAP2,4'-DDE [2C]DoD-ELAP2,4'-DDD [2C]DoD-ELAP2,4'-DDT [2C]DoD-ELAP2,4'-DDT [2C]DoD-ELAP2,4'-DDT [2C]DoD-ELAP2,4'-DDT [2C]DoD-ELAP0xychlordane [2C]DoD-ELAPcis-Nonachlor [2C]DoD-ELAPcis-Nonachlor [2C]DoD-ELAPtrans-Nonachlor [2C]DoD-ELAPfrans-Nonachlor [2C]DoD-ELAPhirexDoD-ELAPMirexDoD-ELAPMirex [2C]DoD-ELAPMirex [2C]DoD	Methoxychlor	WADOE, DoD-ELAP, NELAP, CALAP	
Hexachlorobutadiene [2C]WADOE,DoD-ELAP,NELAP,CALAPHexachlorobenzeneWADOE,DoD-ELAP,NELAP,CALAPHexachlorobenzene [2C]WADOE,DoD-ELAP,NELAP,CALAP2,4'-DDEDoD-ELAP,NELAP,CALAP2,4'-DDE [2C]DoD-ELAP2,4'-DDD [2C]DoD-ELAP2,4'-DDT [2C]DoD-ELAP2,4'-DDT [2C]DoD-ELAP0,4'-DDT [2C]DoD-ELAP0,4'-DDT [2C]DoD-ELAP0,4'-DDT [2C]DoD-ELAP0,4'-DDT [2C]DoD-ELAP0,5'-ELAPDoD-ELAP0,5'-ELAPDoD-ELAP1,4'-DDT [2C]DoD-ELAP1,4'-DDT [2C]DoD-ELAP1,5'-Nonachlor [2C]DoD-ELAP<	Methoxychlor [2C]	WADOE, DoD-ELAP, NELAP, CALAP	
Hexachlorobenzene         WADOE,DoD-ELAP,NELAP,CALAP           Hexachlorobenzene [2C]         WADOE,DoD-ELAP,NELAP,CALAP           2,4'-DDE         DoD-ELAP           2,4'-DDE [2C]         DoD-ELAP           2,4'-DDD         DoD-ELAP           2,4'-DDD [2C]         DoD-ELAP           2,4'-DDT [2C]         DoD-ELAP           2,4'-DDT [2C]         DoD-ELAP           2,4'-DDT [2C]         DoD-ELAP           2,4'-DDT [2C]         DoD-ELAP           0xychlordane         DoD-ELAP           0xychlordane         DoD-ELAP           0xychlordane         DoD-ELAP           cis-Nonachlor         DoD-ELAP           cis-Nonachlor [2C]         DoD-ELAP           rans-Nonachlor [2C]         DoD-ELAP           frans-Nonachlor [2C]         DoD-ELAP           Mirex [2C]         DoD-ELAP           Mirex [2C]         DoD-ELAP           frans-Nonachlor [2C]         DoD-ELAP           Mirex [2C]         DoD-E	Hexachlorobutadiene	WADOE, DoD-ELAP, NELAP, CALAP	
Hexachlorobenzene [2C]WADDE,DoD-ELAP,NELAP,CALAP2,4'-DDEDoD-ELAP2,4'-DDE [2C]DoD-ELAP2,4'-DD1 [2C]DoD-ELAP2,4'-DT1 [2C]DoD-ELAP2,4'-DT1 [2C]DoD-ELAP0xychlordane [2C]DoD-ELAP0xychlordane [2C]DoD-ELAPcis-Nonachlor [2C]DoD-ELAPrans-Nonachlor [2C]DoD-ELAPMirexDoD-ELAPMirex [2C]DoD-ELAPMirex [2C]DOD-ELAP </td <td>Hexachlorobutadiene [2C]</td> <td>WADOE, DoD-ELAP, NELAP, CALAP</td> <td></td>	Hexachlorobutadiene [2C]	WADOE, DoD-ELAP, NELAP, CALAP	
2,4'-DDEDoD-ELAP2,4'-DDDDoD-ELAP2,4'-DDDDoD-ELAP2,4'-DDTDoD-ELAP2,4'-DTTDoD-ELAP2,4'-DTTDoD-ELAP2,4'-DTTDoD-ELAP2,4'-DTTDoD-ELAP0xychlordaneDoD-ELAP0xychlordaneDoD-ELAPcis-NonachlorDoD-ELAPcis-NonachlorDoD-ELAPtrans-NonachlorDoD-ELAPtrans-NonachlorDoD-ELAPMirexDOD-ELAPMirexDOD-ELAPMirexDOD-ELAPMirexDOD-ELAP	Hexachlorobenzene	WADOE, DoD-ELAP, NELAP, CALAP	
2,4'-DDE [2C]DoD-ELAP2,4'-DDD [2C]DoD-ELAP2,4'-DDTDoD-ELAP2,4'-DDT [2C]DoD-ELAP0xychlordaneDoD-ELAP0xychlordane [2C]DoD-ELAPcis-NonachlorDoD-ELAPtrans-Nonachlor [2C]DoD-ELAPtrans-Nonachlor [2C]DoD-ELAPmirexDoD-ELAPMirex [2C]DoD-ELAPMirex [2C]<	Hexachlorobenzene [2C]	WADOE, DoD-ELAP, NELAP, CALAP	
2,4'-DDDDoD-ELAP2,4'-DDT [2C]DoD-ELAP2,4'-DDT [2C]DoD-ELAP2,4'-DDT [2C]DoD-ELAPOxychlordaneDoD-ELAPOxychlordane [2C]DoD-ELAPcis-NonachlorDoD-ELAPcis-Nonachlor [2C]DoD-ELAPtrans-NonachlorDoD-ELAPtrans-NonachlorDoD-ELAPMirexDoD-ELAPMirex [2C]DoD-ELAPMirex [2C]DoD-ELAPToxapheneDoD-ELAP	2,4'-DDE	DoD-ELAP	
2,4'-DDD [2C]DoD-ELAP2,4'-DDTDoD-ELAP2,4'-DDT [2C]DoD-ELAPOxychlordaneDoD-ELAPOxychlordane [2C]DoD-ELAPcis-NonachlorDoD-ELAPcis-Nonachlor [2C]DoD-ELAPtrans-NonachlorDoD-ELAPtrans-Nonachlor [2C]DoD-ELAPMirexDoD-ELAPMirex [2C]DoD-ELAPMirex [2C]<	2,4'-DDE [2C]	DoD-ELAP	
2,4'-DDTDoD-ELAP2,4'-DDT [2C]DoD-ELAPOxychlordaneDoD-ELAPOxychlordane [2C]DoD-ELAPcis-NonachlorDoD-ELAPcis-Nonachlor [2C]DoD-ELAPtrans-NonachlorDoD-ELAPtrans-Nonachlor [2C]DoD-ELAPmirexDoD-ELAPMirex [2C]DoD-ELAPMirex [2C]DoD-ELAPToxapheneDoD-ELAP	2,4'-DDD	DoD-ELAP	
2,4'-DDT [2C]DoD-ELAPOxychlordaneDoD-ELAPOxychlordane [2C]DoD-ELAPcis-NonachlorDoD-ELAPcis-Nonachlor [2C]DoD-ELAPtrans-Nonachlor [2C]DoD-ELAPtrans-Nonachlor [2C]DoD-ELAPmirexDoD-ELAPMirexDoD-ELAPMirexDoD-ELAPMirex [2C]DoD-ELAPDoD-ELAPDoD-ELAPMirexDoD-ELAPMirex [2C]DoD-ELAPDoD-ELAPDoD-ELAPMirex [2C]DoD-ELAPMirex [2C]DoD-ELAPMirex [2C]DoD-ELAPMirex [2C]DoD-ELAPMirex [2C]DoD-ELAPMirex [2C]DoD-ELAPMirex [2C]DoD-ELAPDoD-ELAPMirex [2C]DoD-ELAPMirex [2C]DoD-ELAPMirex [2C]DoD-ELAPMirex [2C]DoD-ELAPMirex [2C]DoD-ELAPMirex [2C]DoD-ELAPMirex [2C]DoD-ELAPMirex [2C]DoD-ELAPMirex [2C]DoD-ELAP	2,4'-DDD [2C]	DoD-ELAP	
OxychlordaneDoD-ELAPOxychlordane [2C]DoD-ELAPcis-NonachlorDoD-ELAPcis-Nonachlor [2C]DoD-ELAPtrans-Nonachlor [2C]DoD-ELAPMirexDoD-ELAPMirex [2C]DoD-ELAPMirex [2C]DoD-ELAPToxapheneDoD-ELAP	2,4'-DDT	DoD-ELAP	
Oxychlordane [2C]DoD-ELAPcis-NonachlorDoD-ELAPcis-Nonachlor [2C]DoD-ELAPtrans-Nonachlor [2C]DoD-ELAPtrans-Nonachlor [2C]DoD-ELAPMirexDoD-ELAPMirex [2C]DoD-ELAPToxapheneDoD-ELAP	2,4'-DDT [2C]	DoD-ELAP	
cis-NonachlorDoD-ELAPcis-Nonachlor [2C]DoD-ELAPtrans-NonachlorDoD-ELAPtrans-Nonachlor [2C]DoD-ELAPMirexDoD-ELAPMirex [2C]DoD-ELAPToxapheneDoD-ELAP	Oxychlordane	DoD-ELAP	
cis-Nonachlor [2C]DoD-ELAPtrans-NonachlorDoD-ELAPtrans-Nonachlor [2C]DoD-ELAPMirexDoD-ELAPMirex [2C]DoD-ELAPToxapheneDoD-ELAP	Oxychlordane [2C]	DoD-ELAP	
trans-NonachlorDoD-ELAPtrans-Nonachlor [2C]DoD-ELAPMirexDoD-ELAPMirex [2C]DoD-ELAPToxapheneDoD-ELAP	cis-Nonachlor	DoD-ELAP	
trans-Nonachlor [2C]DoD-ELAPMirexDoD-ELAPMirex [2C]DoD-ELAPToxapheneDoD-ELAP	cis-Nonachlor [2C]	DoD-ELAP	
MirexDoD-ELAPMirex [2C]DoD-ELAPToxapheneDoD-ELAP	trans-Nonachlor	DoD-ELAP	
Mirex [2C]DoD-ELAPToxapheneDoD-ELAP	trans-Nonachlor [2C]	DoD-ELAP	
Toxaphene DoD-ELAP	Mirex	DoD-ELAP	
·	Mirex [2C]	DoD-ELAP	
Toxaphene [2C] DoD-ELAP	Toxaphene		
	Toxaphene [2C]	DoD-ELAP	

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



WA-DW

Ecology - Drinking Water

# **Analytical Report**

06/30/2019

Landau Associates, Inc Tacoma 2107 South C Street Tacoma WA, 98402		Project: Webster Nurse Project Number: Webster Nurse Project Manager: Sierra Mott	5	Repor 16-Dec-20	
Chlordane, te	chnical	DoD-ELAP			
Chlordane, te	chnical [2C]	DoD-ELAP			
Code	Description		Number	Expires	
ADEC	Alaska Dept of Environmenta	al Conservation	17-015	01/31/2021	
CALAP	California Department of Put	olic Health CAELAP	2748	06/30/2019	
DoD-ELAP	DoD-Environmental Laborate	66169	01/01/2021		
NELAP	ORELAP - Oregon Laborato	WA100006-012	05/12/2020		
WADOE	WA Dept of Ecology	C558	06/30/2019		

C558

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Landau Associates, Inc. - Tacoma 2107 South C Street Tacoma WA, 98402 Project: Webster Nursery Project Number: Webster Nursery Project Manager: Sierra Mott

**Reported:** 16-Dec-2019 15:57

#### **Notes and Definitions**

*	Flagged value is not within established control limits.
T	Flagged value is not within established control limits.

- D The reported value is from a dilution
- E The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL)
- J Estimated concentration value detected below the reporting limit.
- NRS This surrogate not reported due to chromatographic interference
- P1 The reported value is greater than 40% difference between the concentrations determined on two GC columns where applicable.
- U This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
- Y1 Raised reporting limit due to interference
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- [2C] Indicates this result was quantified on the second column on a dual column analysis.