



November 9, 2017

Washington State Department of Ecology  
Toxics Cleanup Program  
4601 North Monroe  
Spokane, Washington 99205-1295

Attn: Ms. Sandra Treccani

**RE: 2017 COMPLIANCE GROUNDWATER MONITORING REPORT AND  
REQUEST FOR COMPLIANCE MONITORING TERMINATION  
WALLA WALLA FARMERS CO-OP, FACILITY SITE ID 769, CLEANUP SITE 916**

Dear Ms. Treccani:

This letter report presents the results of the 2017 compliance groundwater monitoring conducted at the Walla Walla Farmers Co-op (Co-op); Facility Site ID 769, Cleanup Site 916. The compliance groundwater monitoring was performed by Schwyn Environmental Services, LLC (Schwyn) on behalf of CHS Primeland (CHS), to support cleanup action activities at the Co-op facility. The results appear favorable to the termination of the compliance groundwater monitoring program at the facility. CHS is requesting your review of the information presented herein, and based on the review, approval from the Washington State Department of Ecology (Ecology) to terminate compliance monitoring program.

**BACKGROUND**

The Co-op is located at 111 Ninth Avenue, Walla Walla, Washington (Figure 1). Cleanup action at the Co-op was triggered by a Notice of Penalty issued by Ecology in 1985. Remedial investigations began in 1987 and a cleanup action was conducted in 1991. These actions were initiated prior to the full implementation of the Washington State Model Toxics Control Act (MTCA; chapter 173-340 WAC). On April 24, 1992, a Compliance Monitoring Plan (CMP) was developed consistent with the MTCA and submitted to Ecology for approval. A number of subsequent modifications to the CMP have been approved, and MTCA Method B cleanup levels for groundwater are currently applied at the site.

In February 2016, the following modifications to the CMP were approved by Ecology:

- The MTCA Method B groundwater cleanup level of 0.25 ug/L, based on protection of carcinogenic risk (provided in the August 2015 CLARC update), is applicable at the Co-op.
- Sampling for all required constituents shall continue until four consecutive samples are at or below the specified cleanup levels. A constituent may be removed from further sampling once the criteria are achieved. Based on these criteria, nitrate as nitrogen was removed from the sampling program in 2016.

In accordance with the most recent requirements of the CMP, the following groundwater monitoring activities are to be conducted:

- Collection of depth-to-groundwater measurements from six site monitoring wells (MW-1, MW-2, MW-3, MW-5, MW-6 and MW-7).
- Collection of groundwater samples from monitoring wells MW-1, MW-2, MW-5, and MW-6 annually for field parameter measurements and laboratory analysis.
- Submittal of the groundwater samples to an Ecology-accredited laboratory (chapter 173-50 WAC) for analysis of alpha-gamma chlordane. Laboratory method reporting limits (MRLs) shall be equal to or lower than the MTCA Method B cleanup level.
- Collection of confirmation samples if abnormally elevated analyte concentrations are detected.
- Presentation of depth-to-groundwater, groundwater flow direction, and analytical data in an annual report for Ecology review.
- Termination of the groundwater monitoring program may occur when all monitored chemical constituent concentrations are equal to or less than the respective MTCA Method B cleanup level for groundwater during four consecutive monitoring events.

## **DATA COLLECTION METHODS**

### **MONITORING PROGRAM AND WELL LOCATIONS**

In accordance with the annual monitoring schedule, depth to groundwater was measured, and groundwater samples were collected on October 17, 2017. Depth to water was measured in the six Co-op wells (MW-1 through MW-7, except MW-4), and groundwater samples were collected from MW-1, MW-2, MW-5, and MW-6. The well locations are shown on Figure 2.

### **GROUNDWATER ELEVATION**

Depth to groundwater was measured using an electronic water level sounder and recorded to the nearest 0.01 foot from the survey mark on the top of the PVC casing. Schwyn utilized depth-to-groundwater data with well elevation data to determine groundwater elevations relative to mean sea level (MSL) in each well. Groundwater elevation data was utilized to develop a potentiometric surface map (Figure 2) and evaluate the hydraulic gradient of the first water-bearing zone underlying the Co-op.

### **GROUNDWATER SAMPLING**

Groundwater samples were collected for chemical analysis from monitoring wells MW-1, MW-2, MW-5, and MW-6. A duplicate sample was also collected from MW-2.

Prior to sampling, each well was purged of a minimum of three casing volumes of groundwater using a submersible pump and dedicated tubing. Field parameters including temperature, conductivity, and pH were measured after each casing volume of water was purged from the well. The measurements

were recorded on a Groundwater Sample Collection Form. The Groundwater Sample Collection Forms are presented in Attachment A.

After purging each well, the groundwater samples were collected into containers supplied by the laboratory. Each sample container was labeled, logged on a chain-of-custody record, and placed in a chilled cooler for transport to the laboratory. The chain-of-custody record is presented in Attachment A.

## **CHEMICAL ANALYSIS**

The groundwater samples were analyzed by TestAmerica Analytical Testing Corporation, in Spokane, Washington, for alpha-gamma chlordane by U.S. Environmental Protection Agency (EPA) Method 8081A. The laboratory analytical report is presented in Attachment A.

## **MONITORING RESULTS**

### **GROUNDWATER ELEVATION AND GRADIENT**

Depth-to-groundwater measurements and calculated groundwater elevations are presented in Table 1. Groundwater elevation contours are presented on Figure 2. Based on the contours, the inferred groundwater flow direction varied from south to southwest. The groundwater gradient between MW-1 and MW-6 was calculated to be 0.016 ft/ft.

### **GROUNDWATER ANALYTICAL RESULTS**

The groundwater analytical results are presented in Table 2. Chlordane (alpha and gamma) concentrations were not reported at or above the method reporting levels in any of the samples collected on October 17, 2017. All sample results were less than the MTCA Method B cleanup level for chlordane in groundwater of 0.25 ug/L.

## **CONCLUSION**

Since 2004, chlordane (alpha and gamma) concentrations have not been reported at or above the MRLs in samples collected from MW-1, MW-5, or MW-6. Recent sample collection and analysis for alpha gamma chlordane in MW-2 began in 2014. The total alpha gamma chlordane concentrations in the MW-2 groundwater samples have not exceeded the MTCA Method B cleanup level for chlordane (0.25 ug/L) during the 2014, 2015, 2016 or 2017 monitoring events (four consecutive events).

In accordance with the Compliance Monitoring Plan, termination of the groundwater monitoring program may occur when all monitored chemical constituent concentrations are equal to or less than the respective MTCA Method B cleanup level for groundwater during four consecutive monitoring events. Based on these criteria, nitrate as nitrogen was removed from the sampling program in 2016. Chlordane concentrations in all compliance wells groundwater samples have now also been less than the MTCA

Method B cleanup level for chlordane during four consecutive monitoring events. With these data, CHS requests Ecology's approval to terminate the compliance monitoring program.

Please address correspondence to Gayle Osburn at CHS Primeland with a copy to Craig Schwyn.

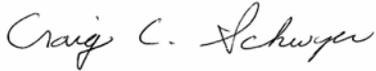
Gayle's address is:

CHS Primeland  
Ms. Gayle Osburn  
P.O. Box 467  
Lewiston, Idaho 83501

Please do not hesitate to contact me a (509) 448-3187 or [craig@schwynenviro.com](mailto:craig@schwynenviro.com), if you have any questions or need additional information.

Sincerely,

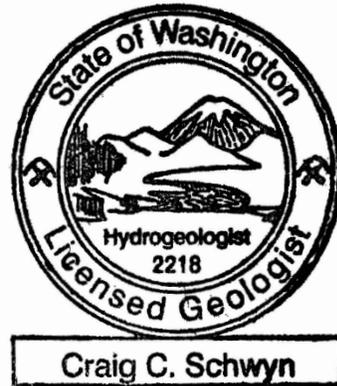
SCHWYN ENVIRONMENTAL SERVICES, LLC



Craig C. Schwyn, L.Hg.  
Principal Hydrogeologist

Attachments: Tables 1 and 2  
Figures 1 and 2  
Attachment A

Cc: Gayle Osburn, CHS Primeland  
Jerry Eide, CHS



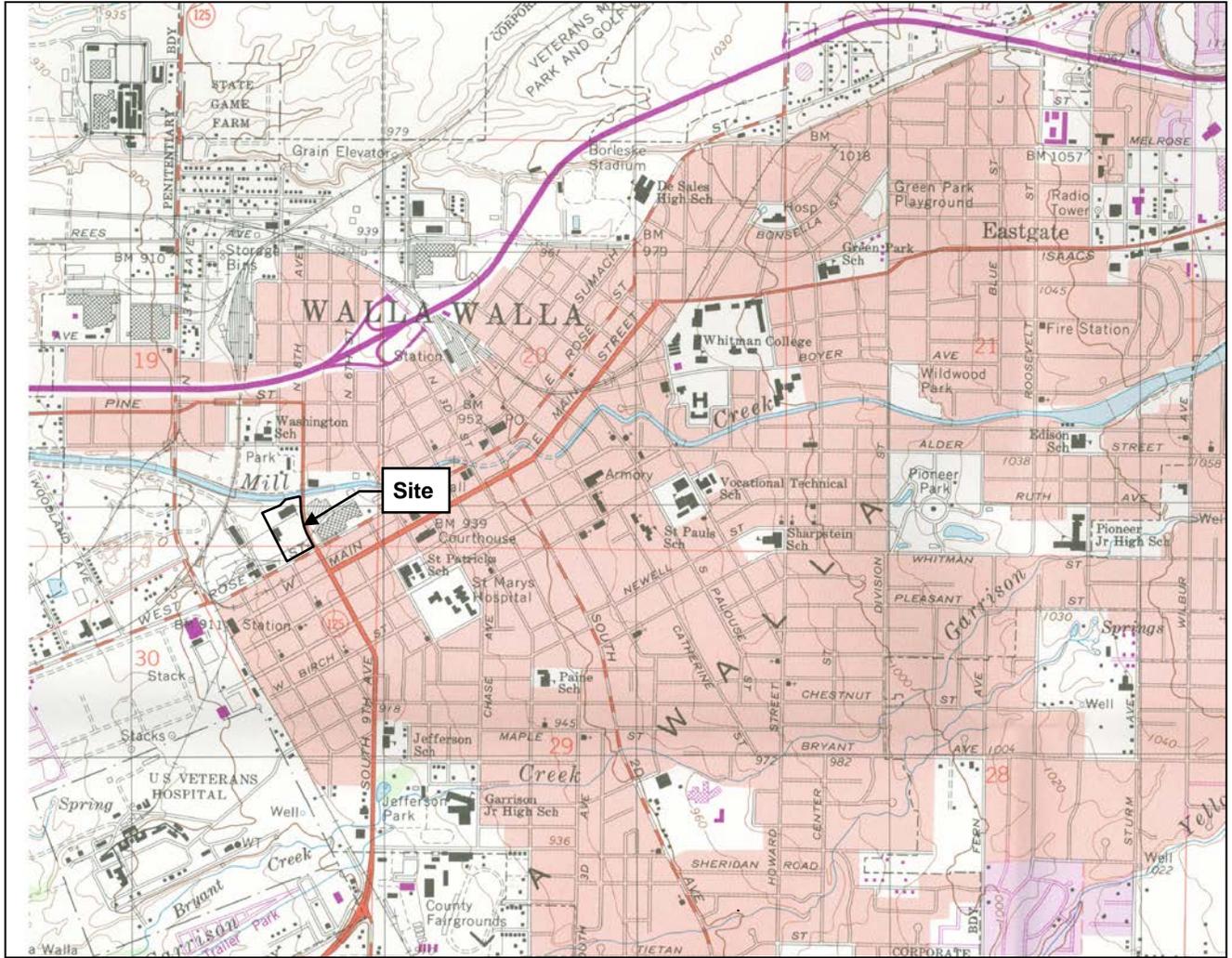
**TABLE 1**  
**GROUNDWATER ELEVATIONS**  
**Walla Walla Farmers Co-op**  
**Walla Walla, Washington**

Monitoring Well	Date Measured	Casing <sup>(a)</sup> Elevation	Depth to Groundwater (feet)	Groundwater Elevation (feet - MSL)
MW-1	10/11/2012	916.57	10.26	906.31
	10/10/2013		11.12	905.45
	10/8/2014		11.23	905.34
	10/28/2015		11.14	905.43
	10/3/2016		11.21	905.36
	10/17/2017		11.10	905.47
MW-2	10/11/2012	915.92	12.04	903.88
	10/10/2013		11.90	904.02
	10/8/2014		12.06	903.86
	10/28/2015		11.97	903.95
	10/3/2016		11.68	904.24
	10/17/2017		11.80	904.12
MW-3	10/11/2012	916.14	12.88	903.26
	10/10/2013		12.21	903.93
	10/8/2014		13.35	902.79
	10/28/2015		11.73	904.41
	10/3/2016		12.40	903.74
	10/17/2017		12.16	903.98
MW-5	10/11/2012	914.78	12.41	902.37
	10/10/2013		13.28	901.50
	10/8/2014		13.35	901.43
	10/28/2015		13.50	901.28
	10/3/2016		13.54	901.24
	10/17/2017		13.42	901.36
MW-6	10/11/2012	913.92	14.14	899.78
	10/10/2013		13.72	900.20
	10/8/2014		13.60	900.32
	10/28/2015		14.00	899.92
	10/3/2016		14.36	899.56
	10/17/2017		14.26	899.66
MW-7	10/11/2012	914.61	12.58	902.03
	10/10/2013		12.32	902.29
	10/8/2014		12.39	902.22
	10/28/2015		12.54	902.07
	10/3/2016		12.45	902.16
	10/17/2017		12.40	902.21

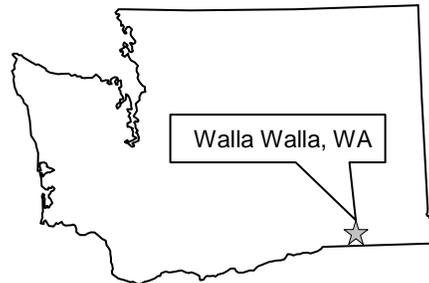
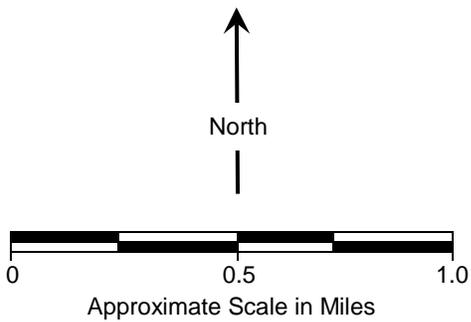
**Notes:**  
(a) Top of casing elevation measured relative to datum of mean sea level (MSL) from brass cap MCCR-10.

**TABLE 2**  
**GROUNDWATER CHEMISTRY DATA**  
**Walla Walla Farmers Co-op**  
**Walla Walla, Washington**

Monitoring Well	Date Sampled	Nitrate as Nitrogen <sup>(a)</sup> (mg/l)	Chlordane <sup>(b)</sup> (µg/l)		
			Alpha	Gamma	Alpha Gamma Sum
MW-1	10/21/2010	0.700	0.049 U	0.049 U	U
	10/19/2011	2.27	0.048 U	0.048 U	U
	10/11/2012	1.01	0.024 U	0.024 U	U
	10/13/2013	1.20	0.024 U	0.024 U	U
	10/8/2014	0.69	0.024 U	0.024 U	U
	10/28/2015	1.00	0.024 U	0.024 U	U
	10/3/2016	---	0.025 U	0.025 U	U
	10/17/2017	---	0.025 U	0.025 U	U
MW-2	10/5/2006	14.0	0.398	0.165	0.563
	10/8/2014	1.74	0.0574	0.0330	0.0904
	<i>duplicate</i> 10/8/2014	1.77	0.0453	0.0305	0.0758
	<i>duplicate</i> 10/28/2015	3.6	0.13	0.069	0.199
	<i>duplicate</i> 10/28/2015	3.6	0.13	0.072	0.202
	<i>duplicate</i> 10/3/2016	---	0.022 U	0.032	<0.054
	<i>duplicate</i> 10/3/2016	---	0.031	0.025	0.056
	<i>duplicate</i> 10/17/2017	---	0.022 U	0.022 U	U
MW-5	10/21/2010	1.40	0.049 U	0.049 U	U
	<i>duplicate</i> 10/21/2010	1.41	0.049 U	0.049 U	U
	10/19/2011	1.08	0.048 U	0.048 U	U
	10/11/2012	1.18	0.024 U	0.024 U	U
	<i>duplicate</i> 10/11/2012	1.14	0.024 U	0.024 U	U
	10/13/2013	0.20 U	0.024 U	0.024 U	U
	<i>duplicate</i> 10/13/2013	0.20 U	0.024 U	0.024 U	U
	10/28/2015	2.0	0.024 U	0.024 U	U
10/3/2016	---	0.023 U	0.023 U	U	
10/17/2017	---	0.023 U	0.023 U	U	
MW-6	10/21/2010	33.1	0.049 U	0.049 U	U
	10/19/2011	18.0	0.048 U	0.048 U	U
	<i>duplicate</i> 10/19/2011	19.1	0.048 U	0.048 U	U
	10/11/2012	10.5	0.024 U	0.024 U	U
	10/13/2013	24.8	0.024 U	0.024 U	U
	10/8/2014	13.6	0.023 U	0.023 U	U
	10/28/2015	20.0	0.024 U	0.024 U	U
	10/3/2016	---	0.023 U	0.023 U	U
	10/17/2017	---	0.024 U	0.024 U	U
MTCA B Cleanup Level <sup>(c)</sup>		25.6			0.25
<b>Notes:</b>					
U - Indicates compound was not detected at or above the given method detection level.					
(a) Nitrate as nitrogen analyzed by Environmental Protection Agency (EPA) Method 300.0.					
(b) Alpha-Gamma chlordane analyzed by EPA Methods 3520C/8081A.					
(c) MTCA Method B cleanup levels from CLARC, August 2015 update.					



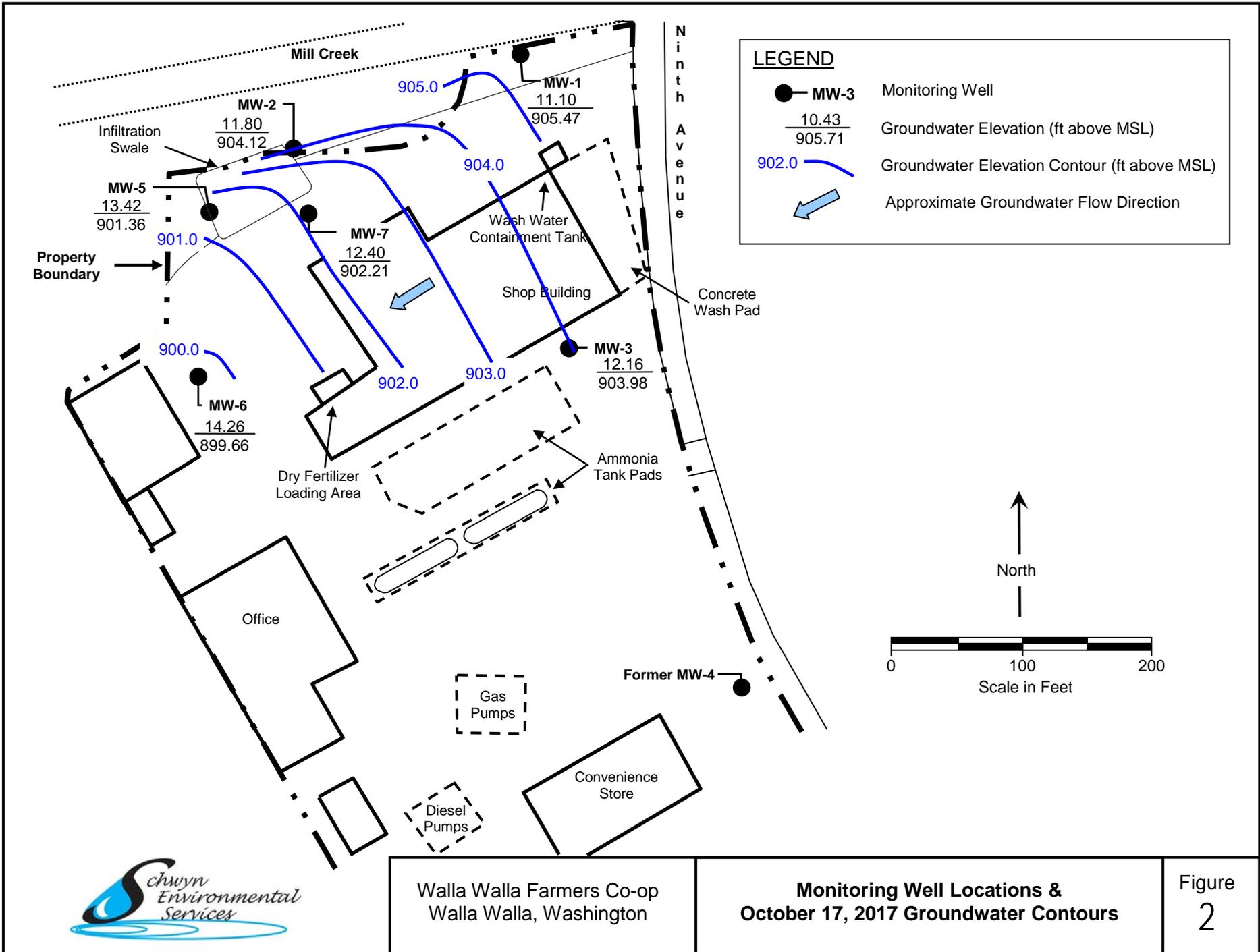
Source: USGS 7.5' Topographic Quad, Walla Walla, WA-OR, 1998.



Walla Walla Farmers Coop  
Walla Walla, Washington

**Site Location**

Figure  
1



Walla Walla Farmers Co-op  
Walla Walla, Washington

**Monitoring Well Locations &  
October 17, 2017 Groundwater Contours**

Figure  
2

**Groundwater Sample Collection Forms  
Laboratory Analytical Report  
and Chain of Custody**





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Phone: (509)448-3187

PROJECT Walla Walla Farmers Co-op

EVENT 2017 Monitoring

SAMPLE NO. **MW-1**

DATE COLLECTED 10/17/17 TIME 13.00

WEATHER 65° Windy COLLECTOR C. Schuyler

### Groundwater Sample Collection Form

#### WATER LEVEL/WELL/PURGE DATA

Sample Type:  Groundwater  Surface Water  Other \_\_\_\_\_

Well Casing Type:  PVC Casing/Well Diameter (" , whole no.): \_\_\_\_\_ Casing Elevation (ft MSL): \_\_\_\_\_

Well Condition: Secure (YES or NO) Damaged (YES or NO) Describe \_\_\_\_\_

Depth to Water (ft) 11.10 Time: \_\_\_\_\_ Meas. From:  Top of Protective Casing  Top of Well Casing

Depth to Product (ft) \_\_\_\_\_ Time: \_\_\_\_\_ Meas. From:  Top of Protective Casing  Top of Well Casing

#### Purge Volume Calculation:

Well Depth 20.05 ft  
 Depth to Water - 11.10 ft  
 Water Column = 8.95  
 Volume/Ft X 0.66  
 Casing Volume = 5.9 Gallons

Begin Purge: Date/Time \_\_\_\_\_ Casing Volume (gal): 5.9

End Purge: Date/Time \_\_\_\_\_ Purge Volume (gal): 17.7 (Generally three casing volumes)

Purged With:  Bailer  Pump/Type \_\_\_\_\_

Purge Water Disposal to:  55-gal drum  Storage Tank  Ground  Other Gal. Purged: \_\_\_\_\_

Vol. Purged (gal)	pH	Temp. (°F/°C)	Cond. (uS/cm, mS/cm)	Comments/Observations
<u>6</u>	<u>6.41</u>	<u>18.5</u>	<u>159.0</u>	
<u>12</u>	<u>6.47</u>	<u>18.6</u>	<u>157.2</u>	
<u>18</u>	<u>6.48</u>	<u>18.4</u>	<u>157.0</u>	

pH Meter: \_\_\_\_\_ Cond. Meter: \_\_\_\_\_ Cond. Range: \_\_\_\_\_

#### SAMPLE COLLECTION DATA

Sample Collected With:  Bailer  Pump/Type Wholes

Made of:  Stainless Steel  PVC  Teflon  Polyethylene  Other  Dedicated

Decon Procedure:  Alconox Wash  Tap Rinse  DI Water  Dedicated

(By Numerical Order)  Other \_\_\_\_\_

Sample Description (color, turbidity, odor, sheen, etc.): \_\_\_\_\_

SIZE	QUANTITY	TYPE		FIELD FILTERED		LABORATORY ANALYSIS
		Glass	Plastic	Yes	No	
<u>250</u>	<u>2</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Alpha-Gamma Chlordane EPA Method 3520/8081A
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Duplicate Sample No(s): \_\_\_\_\_

Comments: \_\_\_\_\_

Signature: Craig C. Schuyler Date 10/17/2017



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PROJECT Walla Walla Farmers Co-op

EVENT 2017 Monitoring

SAMPLE NO. MW-2 F Dup MW-20

DATE COLLECTED 10/17/17 TIME 14:45

WEATHER 60° Windy COLLECTOR C Schrage

### Groundwater Sample Collection Form

#### WATER LEVEL/WELL/PURGE DATA

Sample Type:  Groundwater  Surface Water  Other \_\_\_\_\_

Well Casing Type:  PVC Casing/Well Diameter (" , whole no.): \_\_\_\_\_ Casing Elevation (ft MSL): \_\_\_\_\_

Well Condition:  Secure (YES or NO)  Damaged (YES or NO) Describe \_\_\_\_\_

Depth to Water (ft) 11.80 Time: \_\_\_\_\_ Meas. From:  Top of Protective Casing  Top of Well Casing

Depth to Product (ft) \_\_\_\_\_ Time: \_\_\_\_\_ Meas. From:  Top of Protective Casing  Top of Well Casing

#### Purge Volume Calculation:

Well Depth 20.05 ft  
 Depth to Water - 11.80 ft  
 Water Column = 8.25  
 Volume/Ft X 0.66  
 Casing Volume = 5.4 Gallons

Begin Purge: Date/Time \_\_\_\_\_ Casing Volume (gal): 16.3

End Purge: Date/Time \_\_\_\_\_ Purge Volume (gal): \_\_\_\_\_ (Generally three casing volumes)

Purged With:  Bailer  Pump/Type \_\_\_\_\_

Purge Water Disposal to:  55-gal drum  Storage Tank  Ground  Other Gal. Purged: \_\_\_\_\_

Vol. Purged (gal)	pH	Temp. (°F/°C)	Cond. (uS/cm, mS/cm)	Comments/Observations
<u>5.4</u>	<u>6.33</u>	<u>17.0</u>	<u>116.6</u>	
<u>11.0</u>	<u>6.40</u>	<u>17.1</u>	<u>113.0</u>	
<u>17.00</u>	<u>6.41</u>	<u>17.0</u>	<u>113.5</u>	
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

pH Meter: \_\_\_\_\_ Cond Meter: \_\_\_\_\_ Cond. Range \_\_\_\_\_

#### SAMPLE COLLECTION DATA

Sample Collected With:  Bailer  Pump/Type \_\_\_\_\_

Made of:  Stainless Steel  PVC  Teflon  Polyethylene  Other  Dedicated

Decon Procedure:  Alconox Wash  Tap Rinse  DI Water  Dedicated

(By Numerical Order)  Other \_\_\_\_\_

Sample Description (color, turbidity, odor, sheen, etc.): \_\_\_\_\_

SIZE	QUANTITY	TYPE		FIELD FILTERED		Preservative	LABORATORY ANALYSIS
		Glass	Plastic	Yes	No		
<u>250</u>	<u>2</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<u>Alpha-Gamma Chlordane EPA Method 3520/8081A</u>
<u>250</u>	<u>2</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<u>CC</u>
_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		_____
_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		_____

Duplicate Sample No(s): MW-20 @ 1455

Comments: \_\_\_\_\_

Signature: Craig C. Schrage Date: 10/17/2017



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PROJECT Walla Walla Farmers Co-op  
 EVENT 2017 Monitoring

SAMPLE NO. MW-5  
 DATE COLLECTED 10/17/17 TIME 1415

WEATHER 65 Windy COLLECTOR Schwyz

### Groundwater Sample Collection Form

#### WATER LEVEL/WELL/PURGE DATA

Sample Type:  Groundwater  Surface Water  Other \_\_\_\_\_

Well Casing Type:  PVC Casing/Well Diameter (" , whole no.): \_\_\_\_\_ Casing Elevation (ft MSL): \_\_\_\_\_

Well Condition:  Secure (YES or NO)  Damaged (YES or NO) Describe \_\_\_\_\_

Depth to Water (ft) 13.42 Time: \_\_\_\_\_ Meas. From:  Top of Protective Casing  Top of Well Casing

Depth to Product (ft) \_\_\_\_\_ Time: \_\_\_\_\_ Meas. From:  Top of Protective Casing  Top of Well Casing

#### Purge Volume Calculation:

Well Depth 20.05 ft  
 Depth to Water - 13.42 ft  
 Water Column = 6.63  
 Volume/Ft X 0.66  
 Casing Volume = 4.4 Gallons

Begin Purge: Date/Time \_\_\_\_\_ Casing Volume (gal): 4.4

End Purge: Date/Time \_\_\_\_\_ Purge Volume (gal): 13.1 (Generally three casing volumes)

Purged With:  Bailor  Pump/Type \_\_\_\_\_

Purge Water Disposal to:  55-gal drum  Storage Tank  Ground  Other Gal. Purged: \_\_\_\_\_

Vol. Purged (gal)	pH	Temp. (°F/°C)	Cond. (uS/cm, mS/cm)	Comments/Observations
<u>5</u>	<u>6.35</u>	<u>17.2</u>	<u>158.4</u>	
<u>9.5</u>	<u>6.39</u>	<u>17.2</u>	<u>156.8</u>	
<u>14</u>	<u>6.34</u>	<u>17.3</u>	<u>160.0</u>	

pH Meter: \_\_\_\_\_ Cond Meter: \_\_\_\_\_ Cond. Range \_\_\_\_\_

#### SAMPLE COLLECTION DATA

Sample Collected With:  Bailor  Pump/Type \_\_\_\_\_

Made of:  Stainless Steel  PVC  Teflon  Polyethylene  Other  Dedicated

Decon Procedure:  Alconox Wash  Tap Rinse  DI Water  Dedicated

(By Numerical Order)  Other \_\_\_\_\_

Sample Description (color, turbidity, odor, sheen, etc.): \_\_\_\_\_

SIZE	QUANTITY	TYPE		FIELD FILTERED		Preservative	LABORATORY ANALYSIS
		Glass	Plastic	Yes	No		
<u>250</u>	<u>2</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<u>Alpha-Gamma Chlordane EPA Method 3520/8081A</u>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

Duplicate Sample No(s): \_\_\_\_\_

Comments: \_\_\_\_\_

Signature: Craig Schwyz Date 10/17/2017



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 Phone: (509)448-3187 • Fax: (509) 769-0200

PROJECT Walla Walla Farmers Co-op

EVENT 2017 Monitoring

SAMPLE NO. MW-6  
 DATE COLLECTED 10/17/17 TIME 1320

WEATHER 65 Cloudy COLLECTOR \_\_\_\_\_

### Groundwater Sample Collection Form

#### WATER LEVEL/WELL/PURGE DATA

Sample Type:  Groundwater  Surface Water  Other \_\_\_\_\_

Well Casing Type:  PVC Casing/Well Diameter ("; whole no.): \_\_\_\_\_ Casing Elevation (ft MSL): \_\_\_\_\_

Well Condition: Secure (YES or NO) \_\_\_\_\_ Damaged (YES or NO) \_\_\_\_\_ Describe \_\_\_\_\_

Depth to Water (ft) 14.26 Time: \_\_\_\_\_ Meas. From:  Top of Protective Casing  Top of Well Casing

Depth to Product (ft) \_\_\_\_\_ Time: \_\_\_\_\_ Meas. From:  Top of Protective Casing  Top of Well Casing

#### Purge Volume Calculation:

Well Depth 20.05 ft  
 Depth to Water - 14.26 ft  
 Water Column = 5.79  
 Volume/Ft X 0.66  
 Casing Volume = 3.8 Gallons

Begin Purge: Date/Time \_\_\_\_\_ Casing Volume (gal): 3.8

End Purge: Date/Time \_\_\_\_\_ Purge Volume (gal): 11.5 (Generally three casing volumes)

Purged With:  Bailor  Pump/Type \_\_\_\_\_

Purge Water Disposal to:  55-gal drum  Storage Tank  Ground  Other \_\_\_\_\_ Gal. Purged: \_\_\_\_\_

Vol. Purged (gal)	pH	Temp. (°F/°C)	Cond. (uS/cm, mS/cm)	Comments/Observations
<u>4</u>	<u>5.46</u>	<u>18.4</u>	<u>497</u>	
<u>8</u>	<u>5.56</u>	<u>18.4</u>	<u>506</u>	
<u>12</u>	<u>5.60</u>	<u>18.4</u>	<u>508</u>	

pH Meter: \_\_\_\_\_ Cond Meter: \_\_\_\_\_ Cond. Range \_\_\_\_\_

#### SAMPLE COLLECTION DATA

Sample Collected With:  Bailor  Pump/Type \_\_\_\_\_

Made of:  Stainless Steel  PVC  Teflon  Polyethylene  Other \_\_\_\_\_  Dedicated

Decon Procedure:  Alconox Wash  Tap Rinse  DI Water  Dedicated

(By Numerical Order)  Other \_\_\_\_\_

Sample Description (color, turbidity, odor, sheen, etc.): \_\_\_\_\_

SIZE	QUANTITY	TYPE		FIELD FILTERED		LABORATORY ANALYSIS
		Glass	Plastic	Yes	No	
<u>250</u>	<u>2</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Alpha-Gamma Chlordane EPA Method 3520/8081A
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Duplicate Sample No(s): \_\_\_\_\_  
 Comments: \_\_\_\_\_

Signature: Craig Schayen Date 10/17/2017

WATER LEVEL SURVEY FORM  
WALLA WALLA FARMERS CO-OP  
WALLA WALLA WASHINGTON

Date: 10/17/2017

Measurement collected by: Craig Schwyn

Monitoring Well	Time	Depth to Water (ft)	Well Observations
MW- <del>3</del> 3		12.16	Broken well cap
MW-2		11.80	
MW- <del>1</del> 1		11.10	
MW-5		13.42	
MW-6		14.26	
MW-7		12.40	

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

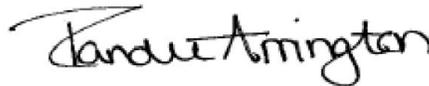
## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Spokane  
11922 East 1st Ave  
Spokane, WA 99206  
Tel: (509)924-9200

TestAmerica Job ID: 590-7357-1  
Client Project/Site: Walla Walla Farmers Coop

For:  
Schwyn Environmental Services  
4621 South Custer Court  
Spokane, Washington 99223

Attn: Craig Schwyn



Authorized for release by:  
10/26/2017 10:02:20 AM

Randee Arrington, Project Manager II  
(509)924-9200  
[randee.arrington@testamericainc.com](mailto:randee.arrington@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

1

2

3

4

5

6

7

8

9

10

11

12



# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	2
Case Narrative . . . . .	3
Sample Summary . . . . .	4
Definitions . . . . .	5
Client Sample Results . . . . .	6
QC Sample Results . . . . .	8
Chronicle . . . . .	9
Certification Summary . . . . .	10
Method Summary . . . . .	11
Chain of Custody . . . . .	12
Receipt Checklists . . . . .	15

## Case Narrative

Client: Schwyn Environmental Services  
Project/Site: Walla Walla Farmers Coop

TestAmerica Job ID: 590-7357-1

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**Job ID: 590-7357-1**

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**Laboratory: TestAmerica Spokane**

### Narrative

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#### Receipt

The samples were received on 10/20/2017 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.1° C.

#### GC Semi VOA

Method 8081B: The %RPD between the primary and confirmation column exceeded 40% for Tetrachloro-m-xylene for the following samples: MW-6 (590-7357-5), (LCS 490-469844/2-A) and (MB 490-469844/1-A). The lower value has been reported and qualified in accordance with the laboratory's SOP.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

# Sample Summary

Client: Schwyn Environmental Services  
Project/Site: Walla Walla Farmers Coop

TestAmerica Job ID: 590-7357-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-7357-1	MW-1	Water	10/17/17 13:00	10/20/17 09:00
590-7357-2	MW-2	Water	10/17/17 14:45	10/20/17 09:00
590-7357-3	MW-2D	Water	10/17/17 14:55	10/20/17 09:00
590-7357-4	MW-5	Water	10/17/17 14:15	10/20/17 09:00
590-7357-5	MW-6	Water	10/17/17 13:20	10/20/17 09:00

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2

3

4

5

6

7

8

9

10

11

12

# Definitions/Glossary

Client: Schwyn Environmental Services  
Project/Site: Walla Walla Farmers Coop

TestAmerica Job ID: 590-7357-1

## Qualifiers

### GC Semi VOA

Qualifier	Qualifier Description
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Client Sample Results

Client: Schwyn Environmental Services  
Project/Site: Walla Walla Farmers Coop

TestAmerica Job ID: 590-7357-1

**Client Sample ID: MW-1**  
**Date Collected: 10/17/17 13:00**  
**Date Received: 10/20/17 09:00**

**Lab Sample ID: 590-7357-1**  
**Matrix: Water**

**Method: 8081B - Organochlorine Pesticides (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-Chlordane	ND		0.025		ug/L		10/23/17 09:16	10/24/17 00:14	1
gamma-Chlordane	ND		0.025		ug/L		10/23/17 09:16	10/24/17 00:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	78		27 - 129				10/23/17 09:16	10/24/17 00:14	1
DCB Decachlorobiphenyl (Surr)	83		24 - 132				10/23/17 09:16	10/24/17 00:14	1

**Client Sample ID: MW-2**  
**Date Collected: 10/17/17 14:45**  
**Date Received: 10/20/17 09:00**

**Lab Sample ID: 590-7357-2**  
**Matrix: Water**

**Method: 8081B - Organochlorine Pesticides (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-Chlordane	ND		0.022		ug/L		10/23/17 09:16	10/24/17 00:27	1
gamma-Chlordane	ND		0.022		ug/L		10/23/17 09:16	10/24/17 00:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	90		27 - 129				10/23/17 09:16	10/24/17 00:27	1
DCB Decachlorobiphenyl (Surr)	84		24 - 132				10/23/17 09:16	10/24/17 00:27	1

**Client Sample ID: MW-2D**  
**Date Collected: 10/17/17 14:55**  
**Date Received: 10/20/17 09:00**

**Lab Sample ID: 590-7357-3**  
**Matrix: Water**

**Method: 8081B - Organochlorine Pesticides (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-Chlordane	ND		0.023		ug/L		10/23/17 09:16	10/24/17 00:39	1
gamma-Chlordane	ND		0.023		ug/L		10/23/17 09:16	10/24/17 00:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	94		27 - 129				10/23/17 09:16	10/24/17 00:39	1
DCB Decachlorobiphenyl (Surr)	88		24 - 132				10/23/17 09:16	10/24/17 00:39	1

**Client Sample ID: MW-5**  
**Date Collected: 10/17/17 14:15**  
**Date Received: 10/20/17 09:00**

**Lab Sample ID: 590-7357-4**  
**Matrix: Water**

**Method: 8081B - Organochlorine Pesticides (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-Chlordane	ND		0.023		ug/L		10/23/17 09:16	10/24/17 00:52	1
gamma-Chlordane	ND		0.023		ug/L		10/23/17 09:16	10/24/17 00:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	105		27 - 129				10/23/17 09:16	10/24/17 00:52	1
DCB Decachlorobiphenyl (Surr)	94		24 - 132				10/23/17 09:16	10/24/17 00:52	1

# Client Sample Results

Client: Schwyn Environmental Services  
 Project/Site: Walla Walla Farmers Coop

TestAmerica Job ID: 590-7357-1

**Client Sample ID: MW-6**

**Lab Sample ID: 590-7357-5**

**Date Collected: 10/17/17 13:20**

**Matrix: Water**

**Date Received: 10/20/17 09:00**

**Method: 8081B - Organochlorine Pesticides (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-Chlordane	ND		0.024		ug/L		10/23/17 09:16	10/24/17 15:55	1
gamma-Chlordane	ND		0.024		ug/L		10/23/17 09:16	10/24/17 15:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	46	p	27 - 129				10/23/17 09:16	10/24/17 15:55	1
DCB Decachlorobiphenyl (Surr)	69		24 - 132				10/23/17 09:16	10/24/17 15:55	1

# QC Sample Results

Client: Schwyn Environmental Services  
 Project/Site: Walla Walla Farmers Coop

TestAmerica Job ID: 590-7357-1

## Method: 8081B - Organochlorine Pesticides (GC)

**Lab Sample ID: MB 490-469844/1-A**  
**Matrix: Water**  
**Analysis Batch: 470102**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 469844**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-Chlordane	ND		0.025		ug/L		10/22/17 19:30	10/23/17 21:55	1
gamma-Chlordane	ND		0.025		ug/L		10/22/17 19:30	10/23/17 21:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	70	p	27 - 129	10/22/17 19:30	10/23/17 21:55	1
DCB Decachlorobiphenyl (Surr)	90		24 - 132	10/22/17 19:30	10/23/17 21:55	1

**Lab Sample ID: LCS 490-469844/2-A**  
**Matrix: Water**  
**Analysis Batch: 470102**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 469844**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
alpha-Chlordane	0.200	0.233		ug/L		117	30 - 130
gamma-Chlordane	0.200	0.226		ug/L		113	35 - 139

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	72	p	27 - 129
DCB Decachlorobiphenyl (Surr)	44		24 - 132

# Lab Chronicle

Client: Schwyn Environmental Services  
Project/Site: Walla Walla Farmers Coop

TestAmerica Job ID: 590-7357-1

**Client Sample ID: MW-1**  
**Date Collected: 10/17/17 13:00**  
**Date Received: 10/20/17 09:00**

**Lab Sample ID: 590-7357-1**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			250 mL	1 mL	469844	10/23/17 09:16	DHC	TAL NSH
Total/NA	Analysis	8081B		1			470102	10/24/17 00:14	JML	TAL NSH

**Client Sample ID: MW-2**  
**Date Collected: 10/17/17 14:45**  
**Date Received: 10/20/17 09:00**

**Lab Sample ID: 590-7357-2**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			280 mL	1 mL	469844	10/23/17 09:16	DHC	TAL NSH
Total/NA	Analysis	8081B		1			470102	10/24/17 00:27	JML	TAL NSH

**Client Sample ID: MW-2D**  
**Date Collected: 10/17/17 14:55**  
**Date Received: 10/20/17 09:00**

**Lab Sample ID: 590-7357-3**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			270 mL	1 mL	469844	10/23/17 09:16	DHC	TAL NSH
Total/NA	Analysis	8081B		1			470102	10/24/17 00:39	JML	TAL NSH

**Client Sample ID: MW-5**  
**Date Collected: 10/17/17 14:15**  
**Date Received: 10/20/17 09:00**

**Lab Sample ID: 590-7357-4**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			275 mL	1 mL	469844	10/23/17 09:16	DHC	TAL NSH
Total/NA	Analysis	8081B		1			470102	10/24/17 00:52	JML	TAL NSH

**Client Sample ID: MW-6**  
**Date Collected: 10/17/17 13:20**  
**Date Received: 10/20/17 09:00**

**Lab Sample ID: 590-7357-5**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			260 mL	1 mL	469844	10/23/17 09:16	DHC	TAL NSH
Total/NA	Analysis	8081B		1			470315	10/24/17 15:55	JML	TAL NSH

## Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

# Accreditation/Certification Summary

Client: Schwyn Environmental Services  
Project/Site: Walla Walla Farmers Coop

TestAmerica Job ID: 590-7357-1

## Laboratory: TestAmerica Spokane

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Washington	State Program	10	C569	01-06-18

## Laboratory: TestAmerica Nashville

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Washington	State Program	10	C789	07-19-18

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# Method Summary

Client: Schwyn Environmental Services  
Project/Site: Walla Walla Farmers Coop

TestAmerica Job ID: 590-7357-1

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Method	Method Description	Protocol	Laboratory
8081B	Organochlorine Pesticides (GC)	SW846	TAL NSH

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**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

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12



## COOLER RECEIPT FORM



Cooler Received/Opened On 10-21-2017 @ 10:25

Time Samples Removed From Cooler 1806 Time Samples Placed In Storage 1808 (2 Hour Window)

1. Tracking # 7665 (last 4 digits, FedEx) Courier: FedEx  
IR Gun ID 31470366 pH Strip Lot NA Chlorine Strip Lot NA
2. Temperature of rep. sample or temp blank when opened: 1.4 Degrees Celsius
3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA
4. Were custody seals on outside of cooler? YES NO...NA  
If yes, how many and where: 1 (side)
5. Were the seals intact, signed, and dated correctly? YES...NO...NA
6. Were custody papers inside cooler? YES NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) KD

7. Were custody seals on containers: YES NO and Intact YES...NO...NA  
Were these signed and dated correctly? YES...NO...NA
8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None
9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None
10. Did all containers arrive in good condition (unbroken)? YES...NO...NA
11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA
12. Did all container labels and tags agree with custody papers? YES...NO...NA
- 13a. Were VOA vials received? YES...NO...NA
- b. Was there any observable headspace present in any VOA vial? YES...NO...NA



14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # \_\_\_\_\_

I certify that I unloaded the cooler and answered questions 7-14 (initial) KR

- 15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA
- b. Did the bottle labels indicate that the correct preservatives were used? YES...NO...NA
16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) KR

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA
18. Did you sign the custody papers in the appropriate place? YES...NO...NA
19. Were correct containers used for the analysis requested? YES...NO...NA
20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) KR

I certify that I attached a label with the unique LIMS number to each container (initial) KR

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO..# \_\_\_\_\_



# Login Sample Receipt Checklist

Client: Schwyn Environmental Services

Job Number: 590-7357-1

**Login Number: 7357**

**List Source: TestAmerica Spokane**

**List Number: 1**

**Creator: Kratz, Sheila J**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

## Login Sample Receipt Checklist

Client: Schwyn Environmental Services

Job Number: 590-7357-1

**Login Number: 7357**

**List Number: 2**

**Creator: Gundi, Hozar K**

**List Source: TestAmerica Nashville**

**List Creation: 10/21/17 06:08 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

