

# Monitoring Well Sampling Update

Simplot Grower Solutions, 1800 W 1st Street

Warden, Washington

January 2018

### Monitoring Well Sampling Update

Simplot Grower Solutions 1800 W. 1<sup>st</sup> Street Warden, Washington 98857

January 2018

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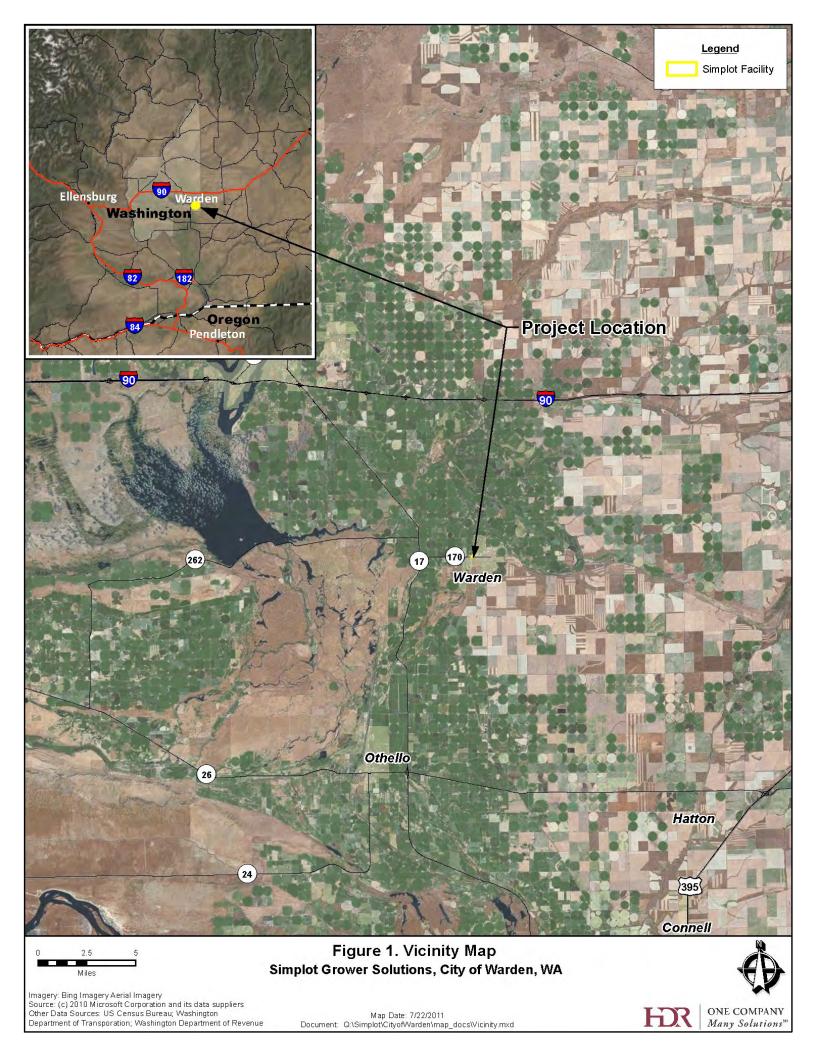


## Acronyms

Ecology	Washington Department of Ecology
EDB	ethylene dibromide
HDR	HDR Engineering, Inc.
QA/QC	quality assurance/quality control
RI/FS	remedial investigation/feasibility study
Simplot	J.R. Simplot Company
USEPA	U.S. Environmental Protection Agency

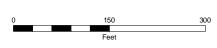
# 1 Introduction

The J.R. Simplot Company (Simplot) entered into an agreed order (Agreed Order 8241) with the State of Washington, Department of Ecology (Ecology) on May 27, 2011, to address the presence of ethylene dibromide (EDB) in soil and groundwater at Simplot Grower Solution's facility at 1800 W. 1st Street, Warden, Washington (**Figure 1** and **Figure 2**). Specifically, the agreed order requires Simplot to complete a remedial investigation/feasibility study (RI/FS). Simplot submitted an RI/FS work plan (HDR 2011) to Ecology in November 2011 that outlines the study approach, conducted RI/FS activities from November 2011 through October 2013, and submitted an updated draft RI/FS report to Ecology in June 2014. Ecology responded with additional comments to the report in September 2017. Prior to addressing comments and finalizing the RI/FS, Simplot conducted groundwater sampling at the facility monitoring wells in December 2017. Field sampling methods and analytical results from the groundwater monitoring are presented in this monitoring well sampling update report. Refer to the draft RI/FS (HDR 2014) for details on site conditions.





Imagery: Bing Aerial Imagery (DigitalGlobe) Source: (c) 2012 Microsoft Corporation and its data suppliers Other Data Sources: US Census Bureau; Washington Department of Transporation; Washington Department of Revenue; Washington Department of Ecology (WDOE) Figure 2. Site Map and Monitoring Well Network Simplot Grower Solutions, City of Warden, WA





Map Date: 11/12/2013 Document: Q:\Simplot\CityofWarden\map\_docs\Site\_2012\_nograph.mxd

# 2 December 2017 Monitoring Well Sampling

Hydrometrics conducted groundwater sampling on December 4 and 5, 2017, following the sampling and analysis plan that was included in Appendix C of the RI/FS work plan (HDR 2011). Water sampling forms are presented in Appendix A. For each sampling event, Hydrometrics measured depth to groundwater in each monitoring well (**Table 1**). **Figure 3** and **Figure 4** present groundwater contours based on the shallow wells and deep wells, respectively, and are based on well elevations measured in December 2017. Groundwater gradient shows a southerly/southwesterly flow direction based on the shallow wells (**Figure 3**). Groundwater flow for the deeper wells was also southerly in December 2017 (**Figure 4**). The East Low Canal, north of the Simplot facility, did not contain water in December 2017. When this canal is full (during growing season) there is a split in the groundwater flows, where groundwater north of the canal flows northerly, and groundwater south of the canal flows in a southerly (HDR 2014).

After taking static water measurements, and in accordance with the RI/FS work plan, Hydrometrics collected water samples by completing the following:

- Surged and pumped each well with a low-flow sampler.
- Recorded field pH, conductivity, dissolved oxygen, temperature, redox, and turbidity measurements during purging.
- Took samples once field parameters were stable.
- Preserved sample bottles according to U.S. Environmental Protection Agency (USEPA) Method 8011 for EDB.

Field sampling and chain-of-custody forms are in Appendix A.

Groundwater samples were shipped overnight to Pace Analytical (Pace) in Seattle, Washington. Pace is certified in the State of Washington for analysis of air, drinking water, Resource Conservation and Recovery Act (RCRA), underground storage tanks (USTs), and wastewater (Certificate #C1915). Samples were preserved with hydrochloric acid (HCI) and analyzed for EDB per Method USEPA 8011.

**Table 2** presents groundwater sampling results for the December 2017 monitoring event and also includes historic sampling results. **Table 3** summarizes the quality assurance/quality control (QA/QC) field sample results. Pace followed appropriate laboratory QA/QC procedures as dictated by the USEPA method and the laboratory's standard operating procedures (SOPs). All data met data quality objectives (see laboratory report in Appendix A).

J.R. Simplot Company | Simplot Grower Solutions | *Monitoring Well Sampling Update* DECEMBER 2017 MONITORING WELL SAMPLING

### Table 1. Groundwater Elevation Measurements

		1/19	9/2012	4/10	/2012	7/10	0/2012	10/2	3/2012	1/22	2/2013	7/22	/2013	10/28	8/2013	12/4	4/2017
Well	Ref. Elev.	Depth	Elev.														
			feet														
MW-1	1245.62	24.38	1,221.24	20.55	1,225.07	14.28	1,231.34	14.53	1,231.09	25	1,220.62	13.86	1,231.76	18.31	1,227.31	22.64	1,222.98
MW-2	1247.09	27.94	1,219.15	23.25	1,223.84	16.98	1,230.11	17.89	1,229.20	28.46	1,218.63	16.91	1,230.18	21.79	1,225.30	25.24	1,221.85
MW-3	1240.88	21.37	1,219.51	21.86	1,219.02	14.31	1,226.57	11.9	1,228.98	21.58	1,219.30	13.05	1,227.83	13.22	1,227.66	18.81	1,222.07
MW-4	1244.72	24.65	1,220.07			20.7	1,224.02	17.44	1,227.28	25.16	1,219.56	18.94	1,225.78	18.15	1,226.57	Decom	missioned
MW-5D	1247.54	27.12	1,220.42	28.89	1,218.65	22.6	1,224.94	22.13	1,225.41	27.6	1,219.94	21.02	1,226.52	20.74	1,226.80	25.84	1,221.70
MW-5S	1247.66	26.98	1,220.68	28.66	1,219.00	22.37	1,225.29	22.32	1,225.34	27.45	1,220.21	20.78	1,226.88	20.6	1,227.06	25.62	1,222.04
MW-6S	1247.86	27.2	1,220.66	29.14	1,218.72	23.43	1,224.43	20.27	1,227.59	27.98	1,219.88	21.82	1,226.04	20.99	1,226.87	26.19	1,221.67
MW-7D	1251.01	30.03	1,220.98	30.76	1,220.25	24.74	1,226.27	19.72	1,231.29	30.65	1,220.36	23.32	1,227.69	24.04	1,226.97	28.79	1,222.22
MW-7S	1250.86	29.89	1,220.97	30.6	1,220.26	24.49	1,226.37	19.52	1,231.34	30.49	1,220.37	23.07	1,227.79	23.88	1,226.98	25.58	1,225.28
MW-8S	1248.84									28.93	1219.91	22.68	1,226.16	22.08	1226.76	27.16	1,221.68
MW-9S	1247.27													D	ry		Dry
MW-10S	1245.32											18.95	1,226.37	18.38	1226.94	23.61	1,221.71

FJS

Well	Jan 12	Apr 12	Jul 12	Oct 12	Jan 13	Jul 13	Oct 13	Dec 17			
vven	EDB (µg/L)										
MW-1	ND <sup>1</sup>	ND	ND	ND	ND	ND	ND	ND			
MW-2	ND	ND	ND	ND	ND	ND	ND	ND			
MW-3	ND	ND	ND	ND	ND	ND	ND	ND			
MW-4	ND	ND	ND	ND	ND	ND	ND	No Well <sup>1</sup>			
MW-5D	0.27	0.01	ND	ND	ND	ND	0.01	ND			
MW-5S	234	16.1	9.1	22.3	14.5	5.7	63	151			
MW-6S	10.9	8.7	26.8	15.4	4.2	2.0	ND	0.35			
MW-7D	ND	0.01 <sup>2</sup>	ND	ND	ND	ND	ND	ND			
MW-7S	ND	0.01 <sup>2</sup>	ND	ND	ND	ND	ND	ND			
MW-8S					ND	ND	ND	ND			
MW-9S							Dry	Dry			
MW-10S							ND	ND			

Table 2. Summary of EDB Detected in Groundwater

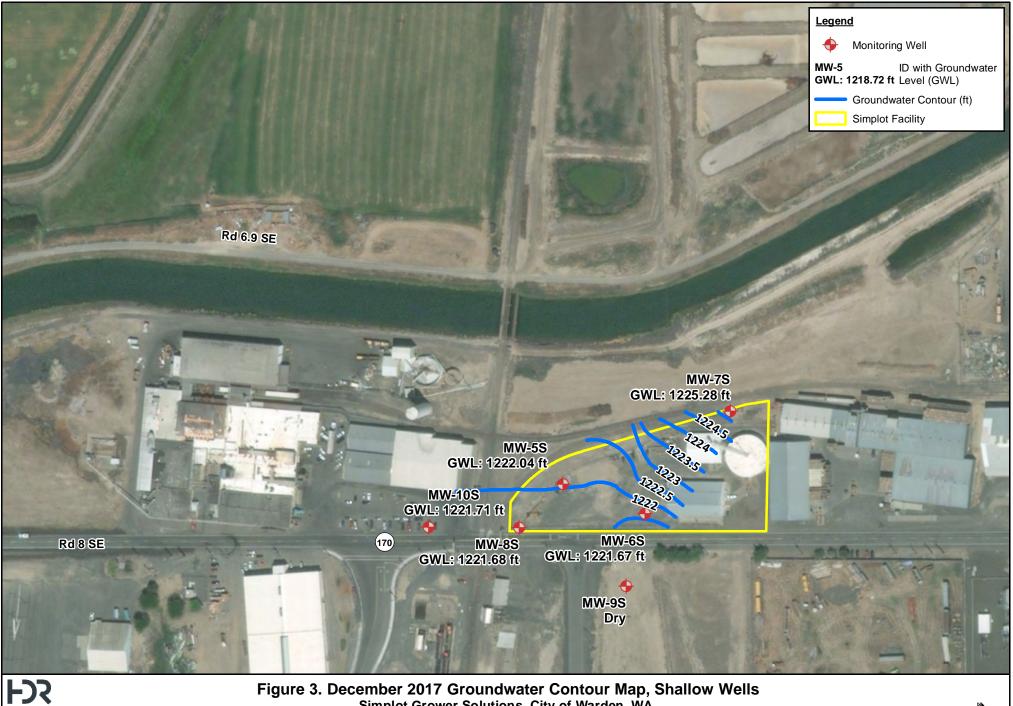
<sup>1</sup> No well = MW-4 was decommissioned in 2015 with Ecology approval.

EDB = ethylene dibromide; µg/L = micrograms per liter; ND = non-detected (see laboratory report for reporting limits)

QA/QC Type	Number of Samples	Result
Duplicate	1 groundwater sample per event	MW-8S EDB = ND MW-8S Duplicate EDB = ND
Trip Blank	1 trip blank per event	EDB = ND

EDB = ethylene dibromide; ND = non-detected (see laboratory report for reporting limits)

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Simplot Grower Solutions, City of Warden, WA

Imagery: 2016 ESRI World Imagery Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community Other Data Sources: US Census Bureau; Washington Department of Transporation; Washington Department of Revenue; Washington Department of Ecology (WDOE)

Map Date: 1/9/2018 Document: Q:\Simplot\CityofWarden\map\_docs\Site\_2017.mxd 400

200

Feet





Figure 4. December 2017 Groundwater Contour Map, Deep Wells Simplot Grower Solutions, City of Warden, WA

Imagery: 2016 ESRI World Imagery Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community Other Data Sources: US Census Bureau; Washington Department of Transporation; Washington Department of Revenue; Washington Department of Ecology (WDOE)

Map Date: 1/9/2018	
Document: Q:\Simplot\CityofWarden\map_docs\Site_2017.mxd	



200

Feet





# 3 Summary and Recommendations

Simplot conducted groundwater sampling of monitoring wells at the facility in December 2017. Field sampling methods followed the sampling and analysis plan in Appendix C of the RI/FS work plan (HDR 2011). Prior to the December 2017 event, the previous groundwater sampling was conducted in October 2013.

On-site well MW-5S continues to have elevated concentrations of EDB and a trace amount was found in on-site well MW-6S. All other monitoring wells, including downgradient off-site wells, continue to be non-detected for EDB.

The sampling results will aid Simplot in responding to Ecology's September 25, 2017 comments to the June 2014 draft RI/FS and the need for changes in the draft RI/FS. Simplot proposes the following schedule:

- Response to comments by January 25, 2018
- Conference call or meeting with Ecology in February 2018
- Revisions and updates to the RI/FS March 2018



# 4 References

HDR [HDR, Inc.]

2014. Draft Remedial Investigation and Feasibility Report. Simplot Growers Solutions, 1800 W. 1<sup>st</sup> Street, Warden, WA 98857. June 2014

2011. Final Remedial Investigation and Feasibility Study Work Plan, Former Simplot Grower Solutions Facility.



Groundwater Sampling Field Forms and Laboratory Report, December 2017

			VV A		MPLING F ORM-430	ORM			
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		ember(s): WCr	ane RWoods			ate: <u>12/ 4</u>		100	
		d: Pace Analytics				ime: <u>12/ 1</u>	The second second second second	6 m	
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	Contraction of	/		1					
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ne	Temp.	S.C.	Dissolved	pH	Oxidation				Pump
	Temp. (°C)	S.C. (µmhos/cm)	Dissolved Oxygen	pH	Oxidation Reduction	Turbidity (n.t.u.)	Water Level (feet)	Total Gallons	Pump Rate
tary)				рН		Turbidity (n.t.u.)	Water Level	<b>Total Gallons</b>	
ary) .06	(°C) PUMP ON	(µmhos/cm)	Oxygen (mg/l)		Reduction Potential (mV	Turbidity (n.t.u.)	Water Level (feet)	Total Gallons	Rate LPM
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(ary) .06 .11 .16 .21	(°C) PUMP ON 14.7 14.9 15.0	(µmhos/cm) ZOB ZO3 ZO3	Oxygen (mg/l) 0 e3   0 e26 0 e19	8.41 8.39 8.41	Reduction Potential (mV 149.53 149.57 137.68	$\begin{array}{c} \text{Turbidity}\\ (n.t.u.)\\ \hline \\ \hline$	Water Level (feet) 25,54 25,54 25,54	Total Gallons Citers Removed 3 6 9	Rate LPM
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агу) .06 []] [][6	(°C) PUMP ON 14.7 14.9 15.0 15.1 0 5 bidity (f) is: (°C) (f) hos/cm) (2) ng/l) (2) H (2) (mV) (13)	$(\mu mhos/cm)$ 208 203 203 207 207 207 207 307 5,1 07 5,20 3,39 3,39 58,7	Oxygen (mg/l) $O_c3$   $O_c26$ $O_c26$ $O_c26$ $O_c26$ $o_c26$ $o_c3$ $O_c26$ $o_c26$ $o_c3$ $O_c26$ $O_c3$   $O_c26$ $O_c3$   $O_c26$ $O_c3$   $O_c26$ $O_c3$   $O_c26$ $O_c3$   $O_c26$ $O_c3$   $O_c26$ $O_c3$   $O_c26$ $O_c3$   $O_c26$ $O_c3$   $O_c26$ $O_c3$   $O_c26$ $O_c26$ $O_c36$ $O_c26$ $O_c36$ $O_c26$ $O_c26$ $O_c26$ $O_c26$ $O_c26$ $O_c26$ $O_c26$ $O_c26$ $O_c36$ $O_c26$ $O_c36$ $O_c6$	8.41 8,39 8,41 8,39 6 6 6 6 6 8 8 8 9 8 9 8 9 8 9 8 9 8 9	Reduction Potential (mV 149:3 149:7 137:8 138:7 6 6 6 6 8 grab	Turbidity (n.t.u.) 4.1 2.6 2.6 10.2 10.3 -5 -6 -5 -6 -5 -6 -5 -6 -7 -7 -7 -7 -7 -7 -7 -7	Water Level (feet) 25 .54 25 .54 25 .54 25 .54 6 6 6 7 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Total Gallons Ulters Removed 3 6 9 12 bailer ameter Add N	Rate LPM
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1.1.2.2	w Site: No	Photo Ta	iken: No			emoved (Liters.)	the second se		
Site	e Type:				Water Level R	Recovery: slow		apid	_
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An	r Temperature	6	34	r	<u> </u>			in solution	
_						22,60	Pre/Post Z	2,64	
-		S.C.	Dissolved	pH	Oxidation	Turbidity	STATES TANK	Total Gallons	Pu
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ry)	(°C)	(µmhos/cm)	Oxygen (mg/l)		Reduction Potential (mV)	(n.t.u.)	(feet)	Removed	R
ry) 56	(°C) PUMP ON	(µmhos/cm)	Oxygen (mg/l)		Reduction Potential (mV)	(n.t.u.)	(feet)	Citers Removed	R
ry) 56 01	(°C) PUMP ON	(µmhos/cm) 454	Oxygen (mg/l)	7.68	Reduction Potential (mV)	(n.t.u.) 16 . Z	(feet) Z Z .86	Citers Removed	R
ry) 56 01 06	(°C) PUMP ON 13.8 14.6	(µmhos/cm) 454 589	Oxygen (mg/l)	7.68	Reduction Potential (mV)  60,0   55,0	(n.t.u.) 16.2 7.9	(feet) 22,86 22,86	Citers Removed <sup>2</sup> .5 5	R
ry) 56 01 06 11	(°C) PUMP ON 13.8 1466 1561	(µmhos/cm) 454 589 637	0xygen (mg/l)   .93   .27   .07	7.68 7.59 7.59	Reduction Potential (mV)  60,0  55,6   49,66	(n.t.u.) 16.2 7.9 4.2	(feet) 22,86 22,86 22,86	Z.S S 7.5	R
ry) 56 01 06 11 16	(°C) PUMP ON 13.8 14.66 15.1 15.2	(μmhos/cm) 454 589 637 649	Oxygen (mg/l)  ?  ??  ??  ??  ??  ??	7.68 7.59 7.59 7.59 7.58	Reduction Potential (mV)  60,0  55,0   49,66  45,66	(n.t.u.) 16.2 7.9 4.2 3.2	(feet) 22,86 22,86 22,86 22,86	Citers Removed 2.5 5 7.5 10	R
ry) 56 01 06 11 16 21	(°C) PUMP ON 13.8 14.66 15.1 15.2 15.3	(µmhos/cm) 454 589 637 649 670	0xygen (mg/l)   .93   .27   .07	7.68 7.59 7.59 7.58 7.58 7.58	Reduction Potential (mV)  60,0  55,6   49,66	(n.t.u.) 16.2 7.9 4.2	(feet) 22,86 22,86 22,86 22,86 22,86	Z.S S 7.5	R
ry) 56 01 06 11 16 21 26	(°C) PUMP ON 13.8 14.6 15.1 15.2 15.3 15.3 15.3	(μmhos/cm) 454 589 637 649	Oxygen (mg/l)   .93   .27   .07   0.98   0.98	7.68 7.59 7.59 7.58 7.58 7.58 7.58	Reduction Potential (mV)  60,0  55,0   49,6  45,6  45,6  45,6	(n.t.u.) 16.2 7.9 4.2 3.2 2.9	(feet) 22,86 22,86 22,86 22,86	2.5 7.5 10 12.5	R LI
ry) 56 01 06 11 16 21 26 31 Tur	(°C) PUMP ON 13.8 14.6 15.1 15.2 15.3 15.3 15.5 bidity (°	(μmhos/cm) 454 589 637 649 670 678 685 Elear moderate	Oxygen (mg/l)   .93   .27   .07   .07   0.98   0.693   0.69   0.86   e Samp	7.68 7.59 7.59 7.58 7.58 7.58 7.58 7.58 7.58 7.58	Reduction Potential (mV) 160 p0 155 o 1 149 p 6 145 o 6 143 o 5 142 o 5 142 o 2 142 o 2	(n.t.u.) 16.2 7.9 4.2 3.2 2.9 2.0 1.00	(feet) 22,86 22,86 22,86 22,86 22,86 22,86 22,86	2.5 7.5 7.5 10 12.5 15	R LI
ry) 56 01 06 11 16 21 26 31 Tur	(°C) PUMP ON 13.8 14.6 15.1 15.2 15.3 15.3 15.3 15.5 bidity (°	(µmhos/cm) 454 589 637 649 678 678 678 685	Oxygen (mg/l)   .93   .27   .07   .07   0.98   0.69   0.86   0.86   0.86   0.86	7.68 7.59 7.59 7.58 7.58 7.58 7.58 7.58 7.58	Reduction Potential (mV) 160 p0 155 o 1 149 p 6 145 o 6 143 o 5 142 o 5 142 o 2 142 o 2	(n.t.u.) 16.2 7.9 4.2 3.2 2.9 2.01 1.00	(feet) 22.86 22.86 22.86 22.86 22.86 22.86 22.86 22.86 22.86	2.5 7.5 72.5 10 12.5 15 17.5 15 17.5	R L
ry) 56 01 06 11 16 21 26 31 Tur	(°C) PUMP ON 13.8 14.6 15.1 15.2 15.3 15.3 15.3 15.5 bidity (Signature)	(µmhos/cm) 454 589 637 649 670 678 685 Tear moderate Tight very Field Paramet	Oxygen (mg/l)   .93   .27   .07   .07   0.98   0.69   0.86   0.86   0.86   0.86	7.68 7.59 7.59 7.58 7.58 7.58 7.58 7.58 7.58 7.58	Reduction Potential (mV) 160 p0 155 6 1 149 p 6 145 6 145 6 143 05 142 02 (37 6 8 grab	(n.t.u.) 16.2 7.9 4.2 3.2 2.9 2.0 2.0 1.0 2 Bottles Co	(feet) 22,86 22,86 22,86 22,86 22,86 22,86 22,86 22,86 22,86 01ected	2.5 5 7.5 10 12.5 15 17.5 5	R LI
ry) 56 01 06 11 16 21 26 31 Tur (c	(°C) PUMP ON 13.8 14.6 15.1 15.2 15.3 15.3 15.3 15.5 bidity (°	(µmhos/cm) 454 589 637 649 670 678 685 Clear moderate Tight very Field Paramet Sample Du	Oxygen (mg/l) 1 eq 3 1 eq 3 1 eq 3 1 eq 3 0 eq 3 0 eq 8 0 eq 3 0 eq 9 0 e 86 e Samp (n ters	7.68 7.59 7.59 7.58 7.58 7.58 7.58 7.58 7.58 7.58 7.58	Reduction Potential (mV)  60,0  $ 55 \circ  $ $ 49 \circ 6$ $ 45 \circ 6$ $ 45 \circ 6$ $ 45 \circ 5$ $ 42 \circ 2$ $(37 \circ 8)$ grab	(n.t.u.) 16.2 7.9 4.2 3.2 2.9 2.61 1.00 Bottles Construction of the second se	(feet) 2.2.86 2.2.86 2.2.86 2.2.86 2.2.86 2.2.86 2.2.86 2.2.86 01ected reservative Part	Citers Removed 7.5 7.5 10 12.5 15 15 15 17.5 0ailer Addi	
ry) 56 01 06 11 16 21 26 31 Tur (c	(°C) PUMP ON  3,8  4 66 15,1 15,2 15,3 15,3 15,3 15,5 bidity (°s) ircle) s	(µmhos/cm) 454 589 637 649 670 678 685 Clear moderated Tight very Field Parame Sample Du	Oxygen (mg/l) 1 eq 3 1 eq 3 1 eq 3 1 eq 3 0 eq 8 0 eq 8 0 eq 9 0 eq 8 0 eq 9 0 eq 8 0 eq 9 0 eq 8 e Samp (n ters	7.68 7.59 7.59 7.58 7.58 7.58 7.58 7.58 7.58 7.58 7.58	Reduction Potential (mV)  60,0  $ 55 \circ  $ $ 49 \circ 6$ $ 45 \circ 6$ $ 45 \circ 6$ $ 45 \circ 5$ $ 42 \circ 2$ $(37 \circ 8)$ grab	(n.t.u.) 16.2 7.9 4.2 3.2 2.9 2.6 1.0 2.6 1.0 2.0 2.6 1.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2	(feet) 22.86 23.86 24.86 24.86 24.86 24.86 25.86 2	Citers Removed 7.5 7.5 10 12.5 15 17.5 15 17.5 bailer Addi	R D O
ry) 56 01 56 01 56 11 16 21 26 31 Tur (c	(°C) PUMP ON 13.8 14.66 15.2 15.2 15.3 15.3 15.3 15.5 bidity (° s (°C) [] hos/cm) []	( $\mu$ mhos/cm) 454 589 637 649 678 678 685 Clear moderate Tight very Field Paramet Sample Du	Oxygen (mg/l) 1 eq 3 1 eq 3 1 eq 3 1 eq 3 0 eq 8 0 eq 8 0 eq 9 0 eq 8 0 eq 9 0 eq 8 0 eq 9 0 eq 8 e Samp (n ters	7.68 7.59 7.59 7.58 7.58 7.58 7.58 7.58 7.58 7.58 7.58	Reduction Potential (mV)  60,0  $ 55 \circ  $ $ 49 \circ 6$ $ 45 \circ 6$ $ 45 \circ 6$ $ 45 \circ 5$ $ 42 \circ 2$ $(37 \circ 8)$ grab	(n.t.u.) 16.2 7.9 4.2 3.2 2.9 2.61 1.00 Bottles Construction of the second se	(feet) 2.2.86 2.2.86 2.2.86 2.2.86 2.2.86 2.2.86 2.2.86 2.2.86 01ected reservative Part	Citers Removed 7.5 7.5 10 12.5 15 15 15 17.5 0ailer Addi	R D O
ry) 56 01 06 11 16 21 26 31 Tur (c Cemp , (µm) DO (r	(°C) PUMP ON 13.8 14.66 15.2 15.2 15.3 15.3 15.3 (5.5 bidity (° ircle) s (°C) [] hos/cm) []	$(\mu mhos/cm)$ 454 589 637 649 670 678 685 Tight very Field Parameters Sample Duty 5.5 85 85	Oxygen (mg/l) 1 eq 3 1 eq 3 1 eq 3 1 eq 3 0 eq 8 0 eq 8 0 eq 9 0 eq 8 0 eq 9 0 eq 8 0 eq 9 0 eq 8 e Samp (n ters	7.68 7.59 7.59 7.58 7.58 7.58 7.58 7.58 7.58 7.58 7.58	Reduction Potential (mV)  60,0  $ 55 \circ  $ $ 49 \circ 6$ $ 45 \circ 6$ $ 45 \circ 6$ $ 45 \circ 5$ $ 42 \circ 2$ $(37 \circ 8)$ grab	(n.t.u.) 16.2 7.9 4.2 3.2 2.9 2.61 1.00 Bottles Construction of the second se	(feet) 2.2.86 2.2.86 2.2.86 2.2.86 2.2.86 2.2.86 2.2.86 2.2.86 01ected reservative Part	Citers Removed 7.5 7.5 10 12.5 15 15 15 17.5 0ailer Addi	R D O
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ry) 56 01 57 10 56 01 57 10 10 10 10 10 10 10 10 10 10	(°C) PUMP ON 13.8 14.66 15.7 15	$(\mu m hos/cm)$ 454 589 637 649 670 678 685 Clear moderate moderate Sample Du 5.5 685 7.57 57.8	Oxygen (mg/l) 1 eq 3 1 eq 3 1 eq 3 1 eq 3 0 eq 8 0 eq 8 0 eq 9 0 eq 8 0 eq 9 0 eq 8 0 eq 9 0 eq 8 e Samp (n ters	7.68 7.59 7.59 7.58 7.58 7.58 7.58 7.58 7.58 7.58 7.58	Reduction Potential (mV)  60,0  $ 55 \circ  $ $ 49 \circ 6$ $ 45 \circ 6$ $ 45 \circ 6$ $ 45 \circ 5$ $ 42 \circ 2$ $(37 \circ 8)$ grab	(n.t.u.) 16.2 7.9 4.2 3.2 2.9 2.61 1.00 Bottles Construction of the second se	(feet) 2.2.86 2.2.86 2.2.86 2.2.86 2.2.86 2.2.86 2.2.86 2.2.86 01ected reservative Part	Citers Removed 7.5 7.5 10 12.5 15 15 15 17.5 0ailer Addi	R Ll
ry) 56 01 06 11 16 26 31 Tur (c Temp 4 (uml DO (r pH DO (r pH DO (r ther: Col ther: Col Col Col Col Col Col Col Col	(°C) PUMP ON 13.8 14.66 15.2 15.3 15.3 15.3 15.5 bidity (°C)	$(\mu m hos/cm)$ 454 589 637 649 678 685 685 685 685 685 685 78 685 78 7.57 7.8	Oxygen (mg/l) 1 eq 3 1 eq 3 1 eq 3 1 eq 3 0 eq 8 0 eq 8 0 eq 9 0 eq 8 0 eq 9 0 eq 8 0 eq 9 0 eq 8 e Samp (n ters	7.68 7.59 7.59 7.58 7.58 7.58 7.58 7.58 7.58 7.58 7.58	Reduction Potential (mV)  60,0  $ 55 \circ  $ $ 49 \circ 6$ $ 45 \circ 6$ $ 45 \circ 6$ $ 45 \circ 5$ $ 42 \circ 2$ $(37 \circ 8)$ grab	(n.t.u.) 16.2 7.9 4.2 3.2 2.9 2.61 1.00 Bottles Construction of the second se	(feet) 2.2.86 2.2.86 2.2.86 2.2.86 2.2.86 2.2.86 2.2.86 2.2.86 01ected reservative Part	Citers Removed 7.5 7.5 10 12.5 15 15 15 17.5 0ailer Addi	R Ll
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Project Code Sample Tear Laboratory	n Member(s): <u>WCra</u> Used: Pace Analytica <u>f Duplicate Sample</u> <u>Please Record</u> nple Code #	ane, RWoods II Collected,	HF-F	Sample D Sample T	nation: ode Num ate: ime: <u>Fo</u>	12/ <u>4</u> / 13 r Groun	'17	(m	Payi Payi ilitary)	i laf
Project Code Sample Tear Laboratory	: <u>12000</u> n Member(s): <u>WCrr</u> Used: Pace Analytica <u>f Duplicate Sample</u> <u>Please Record</u> nple Code #  nple Time: <u>Site Condition</u>	Collected,		Site Desig Sample C Sample D Sample T	ate: ime: <u>Fo</u>	12/ <u>4</u> / 13 r Groun	17 :30	(m	Page	i laf
Project Code Sample Tear Laboratory	: <u>12000</u> n Member(s): <u>WCrr</u> Used: Pace Analytica <u>f Duplicate Sample</u> <u>Please Record</u> nple Code #  nple Time: <u>Site Condition</u>	Collected,	/	Sample D Sample T	ate: ime: <u>Fo</u>	12/ <u>4</u> / 13 r Groun	17 :30	(m	Page	lof.
Sample Tear Laboratory	n Member(s): <u>WCra</u> Used: Pace Analytica <u>f Duplicate Sample</u> <u>Please Record</u> nple Code # nple Time: <u>Site Conditio</u>	Collected,	/	Sample D Sample T	ate: ime: <u>Fo</u>	12/ <u>4</u> / 13 r Groun	17 :30	(m	Page	lof'
Laboratory	Used: Pace Analytica f Duplicate Sample Please Record nple Code # nple Time: Site Condition	Collected,	/	Sample T	ime: <u>Fo</u>	<u>رع</u> r Groun	:30	(m	Pagi <u>ilitary)</u>	lof'
Duplicate Sat Duplicate Sat New Site: Site Type:	f Duplicate Sample Please Record nple Code # nple Time: Site Condition	Collected,	/		Fo	r Groun		(m	ilitary)	
Duplicate Sau Duplicate Sau New Site: Site Type:	Please Record		/	well volu			dwater S	an and a second		
Duplicate Sau Duplicate Sau New Site: Site Type:	Please Record		/	well volu				amples		
Duplicate Sau Duplicate Sau New Site: Site Type:	Please Record		/	A CONTRACTOR		: V=(TD-	SWL)x(Dia.			٦
Duplicate San New Site: Site Type:	nple Time:		/				25	1.1.4	omments	
New Site: Site Type:	Site Condition	:/	1	TD (ft.)	5.5 s	WL(ft) 2	3,61'	no access/pum	nping	
Site Type:				MP Desci	iption	top of	PVC	4		
Site Type:				Casing Di	ameter (I.I	2 (.(	Pumping	Rate 0.3	pm lpm	
Site Type:	No Photo Ta	ons			olume (gal)	1.0	VX3(gal	= 5.7	- 11	
Contraction of the second		ken: No		Actual Vo	l. Remove	d (Liters.)	19.5	5		
and the second second		(11009 100.1)	12.10	Water Lev	el Recove	ry: slow	moderate	e rapid		
6	nonitoring well					For	Surface W	ater		-
ot	ner:		5 an 1							
Weather Con	ditions: calm	breeze	vindy							
	no precip.	rain	snow							
an Eric me		p. cloudy	overcast							
Air Temperat	ure 😵	31	°F						_	
-			-	1.1	2	3.61	Pro / Po	st 23.55	1	
ime Temp.	S.C.	Dissolved	pH	Oxidation	Tu	rbidity	Water Le	vel Total	Gallons	Pump
litary) (°C)	(µmhos/cm)	Oxygen	1.257	Reduction Potential (m)		n.t.u.)	(feet)	CLit	ers	Rate LPM
22 PUMP C	N	(mg/l)		Potential (m)	()	-		Rem	oved	LPM
27 15.	2283	5 .57	7,53	29 .6	2	31.	23.0	90 1.5	-	0.3
:32 160		5.31	7,54	33 0		7.2	23,0			1
:37 160		5.42		44 68			23.9			
	9 2337	5 028	7.56			1.2		121 4.		-
	0 2343	5 028				20			2-	-+
		and the second second second	7655	58.8		7.0 1.0				
		5 023		5906		and the second division of the second divisio		10		4
-:57 17 .	-	5 .37	7056	6467	33	305	23,0	V	.5	¥
Turbidity	clear moderate		le Method:	grab			pump	-bailer	-	
(circle)	slight very		lescribe)			1.1.5.	"Grundfos			
	Field Paramet	COLUMN AND AND AND AND AND AND AND AND AND AN	o	<b>a</b> :	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ttles Co				
	Sample Du	plicate	Quantity	Size	Filter of Unfilt.	Pre	servative	Parameter	Additi	
Temp (°C)	17.9		3	40 ml	F or UF		HCL	EDB		
S.C. (µmhos/cm)	2306		1.2		1.0					
DO (mg/l)	5,28									
pH	7,55									
ORP (mV)	77.3									
Furbidity (n.t.u.)	15.9	_								
Color	None									
Other: Odor	hon		27-18-6	\						
	some ambie		stad	dors fro	n +	rettie	e ano	land.	inter.	
		SCONNected		ubing to	sampl				chest	7
	UNE WE UT	1	1				- INCO	6 16 10		9
	cycles-128			11 0	4	1104	c Inco	any in	Charal Sec	<u> </u>
pump		Signature:	Wa	11 0	ne	Page		of 2	-	-

11/27/17 11:46 AM
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amp tate LEPM	P	MW Total Gallons Liters Removed	Water Level (feet)	Turbidity (n.t.u.)	Oxidation Reduction Potential (mV)	рН	Dissolved Oxygen (mg/l)	S.C. (µmhos/cm)	Temp. (°C)	Time (Military)
30%	die	aris were	ala du		A CONTRACTOR	1 A.	N X X		PUMP ON	+ 10
.3	C	12	23,90	25.7	72.6	7,56	5,23	2312	17.5	13:02
		13.5	23,90		73.1		5.18	2313	17.6	13:07
		15	23 290		7107	and the second se	5.22	2313	17.8	13:12
		16.5	23.90	17.4	72.8	7.55	5.10	2311	17.7	13:17
		18	23,90	16.5	76.6	7055	5.16	2300	17.8	13:20
(	4	19.5	23,90'	15.9	77.3	7,55	5.28	2306	17.9	13:27
										1-11
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						-				
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_		3-12-1-1								
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_	_									
-	-					1				
		1-1-2-1								
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11/27/2017 11:38 AM

U:\Water Sampling Form Table.docx\HLN\11/27/2017\034

Hydrometrics, Inc. **Consulting Scientists and Engineers** STANDARD OPERATING PROCEDURE WATER SAMPLING FORM HF-FORM-430 MW-75 Project Name: Simplot Warden Site Designation: SWM-0712 103 Project Code: 12000 Sample Code Number: Sample Team Member(s): WCrane, RWoods Sample Date: \_\_\_\_\_12/ 4 /17 14:55 Laboratory Used: Pace Analytical Sample Time: (military) For Groundwater Samples well volume formula: V=(TD-SWL)x(Dia.2) If Duplicate Sample Collected, Comments **Please Record Below** 25 TD (ft.)39.75 SWL(ft) 28.58 Duplicate Sample Code # no access/pumping PVC MP Description top of Duplicate Sample Time: 2 Casing Diameter (I.D.) Pumping Rate lpm 1,8 VX3(gal)= 5,4 Casing Volume (gal) Site Conditions 40 New Site: Actual Vol. Removed (Liters.) No Photo Taken: No Site Type: Water Level Recovery: (slow) moderate rapid (nonitoring well) For Surface Water other: Weather Conditions: calm breeze) windy no precip.) rain snow clear p. cloudy overcast Air Temperature ٩F .37 Pre/Post 28.57 28.58 Total Gallons Time Temp. S.C. Dissolved Oxidation Turbidity Water Level pH Pump (Military) (°C) (µmhos/cm) Oxygen Reduction (n.t.u.) (feet) Rate Potential (mV) Removed LPM (mg/l) PUMP ON 14:10 6.32 4:15 8 3942 1.63 96.6 22.5 28.85 5 3983 7.64 28,86 :20 1602 6 25 15607 18:6 10 2 28,86 3881 6.18 7.64 138.2 14 :25 6 12.0 15 .3 28.85 3302 90 14:30 792 7065 600 20 6 14:35 28,85 25 602 727 000 7:65 2901 60 6 30 03 3685 4 09 28.85 14:40 6 6:02 7060 2702 3649 28,2 28,85 14:45 5.95 305 35 6,6 S. Sample Method: pump 85 bailer 621 moderate 22002 2+2 40 (4: Surbidity (clear) (circle) slight very (describe) 2"Grundfos **Field Parameters Bottles Collected** Sample Duplicate Quantity Sizc Filter or Preservative Additional Parameter Unfilt. Notes Temp (°C) 3 40 ml F or UF HCL EDB 16.4 S.C. (µmhos/cm) 3627 DO (mg/l) 5,87 pH 7,66 ORP (mV) 28.2 Turbidity (n.t.u.) 2.2 Color None Other: Odor NONe Comments: pump cycles 2 137 Vane atter Sample Team Member Signature: ÍΛ Page of

J:\Wcrane\Sample Form Warden - Simplot.Doc\\11/27/17\034

11/27/17 11:46 AM

		HF-F	ORM-430	har ha An Start Alexandri				
Project Name: Simplot Warde	n			Contraction of the second	MW-7	112		
Project Code: <u>12000</u>		÷	101000000000	Code Number		713104	-	
Sample Team Member(s): <u>W(</u>				Date:12	11 110	÷		
Laboratory Used: Pace Analyt	ical		Sample	Cime:		A. 10. 10. 10. 10	military)	. 1 (
If Duplicate Sam	la Callastad		well you		roundwater		Pag	ke lof
Please Recor			inch voit	ine tornula.	25	<u>a. 1</u>	Comments	
	/	/		-1-1	70-00	,		
Duplicate Sample Code #		/			(ft) 28,79		umping	
Duplicate Sample Time:	: /				pof puc		-	
Site Cond	tions			olume (gal)	2" Pumping	al)= $(Z_i)$		
	Taken: No			ol. Removed (I.	20			
Site Type:				vel Recovery:		ate rapid		6
(monitoring well					For Surface	Water		_
other: Weather Conditions: calm	breeze )	windy						
no precipi	rain	snow						
clear	p. cloudy	overcast						
Air Temperature	\$ 34	°F					_	
				28	.79' Pre/P	78.8	3	
ime Temp. S.C.	Dissolved	pH	Oxidation	Turbi	lity Water L	evel Tota	I Gallons	Pump
itary) (°C) (µmhos/cm)	Oxygen (mg/l)	(	Reductior Potential (m		1.) (feet)		moved	Rate LPM
:32 PUMP ON	_						and the second	
237 14.5 217	0.33		217.	1 19.1		.98	3	0,6
:42 1507 221 :47 1600 219	0,19	8.15	190 0	2 6.	2 28,	98	6	
:47 16.0 Z19 :52 16.1 Z24	0.19	8,13	1780	3 30. 7 27.	28. 3 28.	001 001	9	*
:57 1601 217		8011	166 05			991	15	
:02 16 02 220		8012	16201			991	18	
:07 6.2 222	P .07	8.13	15766	0 100	6 28.	991	21	4
Turbidity clear moder	ate Samp	le Method	: grab		pump	-bailer	-	
(circle) slight very		describe)		41.53	2"Grundfos	5		
<u>Field Paran</u> Sample	eters Duplicate	Quantity	Size	Bottle Filter or	es Collected Preservative	Parameter	Additi	ional
	Jupicate			Unfilt.		0.00	Not	
Temp (°C)  6.3		3	40 ml	F or UF	HCL	EDB	1.000	
C. (μmhos/cm) <u>214</u> DO (mg/l) <u>0</u> , 09					-		-	
рн 8.14							-	
ORP (mV) 137,6								
urbidity (n.t.u.) 3.7	ale and						1	
Color NO	ve							
Other: Odor Yes		22.2						
Comments: * discharge		"black	sh'				1	
	25 ~ 134		~ ~					-
pump cycl			11 /					

MW	.7	
Page		2

Time (Military)	Temp. (°C)	S.C. (µmhos/cm)	Dissolved Oxygen (mg/l)	рН	Oxidation Reduction Potential (mV)	Turbidity (n.t.u.)	Water Level (feet)	Total Gallons Liters Removed	Pump Rate GPM/LPM
	-PUMP-ON-						urrana.		
16:12	16.3 16.3 16.3 16.3 16.3	218	0.08	8,13	154.3	8.1	29.00	24	0.6
16:17	16.3	222	0.07	8014	152.2	7.5	29,00	27	1
16:22	16.3	221	0.07	8.13	149.6	5.8	29.00	30	
16:27	16.3	215	0.09	8.14	146.4	401	29.00	33	
16:32	16.4	217	0,10	8.14	142.6	4.1	29,00'	36	
16:37	16.3	214	0.09	B.14	137.6	3.7	29.00	39	4
_									

H	ydrometric	s, Inc.	STANDAJ WA	TER SAN		ROC	CEDURE	entists and E	ngineers	
Pr	oject Name:	Simplot Warden					on:	MW-5		
	oject Code:	- 11 (NY						SWM-0713-	0717-	105
		Member(s): WCr:	ane RWoods				12/ 4		<u>o n</u> e	
		sed: Pace Analytica						3:00		litary)
La	aboratory 0.	sed: race Analytica			Sample	I ime:				itary)
	If	Duplicate Sample Please Record			well vol	ume for		ndwater Sam -SWL)x(Dia. <sup>2</sup> ) 25		mments
	uplicate Samj uplicate Samj	/			TD (ft.)	57,4 cription	5 swl(ft)	ZS.89 <sup>'</sup> no: FPVC <sup>''</sup> Pumping Rate	access/pump	oing 
		Site Conditio	ms		Casing	/olume	(gal) 5.	VX3(gal)=	15.3	2 ipin
N	ew Site: 1	Vo Photo Ta					moved (Liters.)	12 6		
	te Type:		aton. NO		Water L					
5.		nitoring well						Surface Wate		
	othe eather Condi	r:			-		FOI	Surface wate	<u> </u>	
Ai	ir Temperatu		rain p. cloudy 34	snow overcast °F			75 81	Pre / Post	75 9	>'
Time	Temp.	S.C.	Dissolved	pH	Oxidation	. 1	Turbidity	Water Level	ZS . O	
(Military)	(°C)	(µmhos/cm)	Oxygen (mg/l)	pix	Reduction Potential (n	n	(n.t.u.)	(feet)	Lite Remo	rs) Rate
7:33	2 2 2 2 2 4 0 L 1400	the second se	6 1.7	0.5	12112 0		0.7			and the second
7:38		364		8.05	243.0		9.7	76 .16	3	
17:43		380	0 31	8,10	233 0		5.9	26.17	6	+180
17:48	14.8		0.34	8.11	226 6		4.9	26,14		and the second sec
17:53	15.1	381	0.29	8011	220 .		4.2	26.13	1110	
17:58	1500	383	0 024	8012	216 .	5	3.9	26 .13	130	5 1
:	0		6	6	C		6	6	1	1
¢ e	6		Þ	6	6	_	D	1	1	×
	bidity ( bircle)	clear moderate slight very Field Paramet	(i	le Method: describe)	grab	_	2 Bottles Co	"Grundfos	-bailer	
			plicate	Quantity	Size				rameter	Additional Notes
Temp		15,0		3	40 ml	Fo	or UF	HCL	EDB	
S.C. (µm		383								
DO (I	32.4	0,24				1				
pI		8,12								
ORP		216.5							-	
Turbidity		3.9				_				
Col		None								
Other:		NONe	-			-				
Comm	nents:	0	lar 0 10	a	_	_	_			
1		Pump cyc	les 212	1						
	Sam	ple Team Member	Signature:	Wa	Herty	dove	- Page	e	of	
J:\	Wcrane\Samn	le Form Warden - Simp	lot Doc\\11/27/	17\034					1.1	

11/27/17 11:46 AM

,	drometrics	, me.		TER SAL	ATING PRO MPLING FO ORM-430	2021/01/2012/01/2012		a Engineers	
Pro	oject Name:	Simplot Warden			Site Design:	ation:	MW- 8	S	100
Pro	oject Code: _	12000							106
Sar	mple Team N	Iember(s): WCra	ne, RWoods						
		d: Pace Analytica			Sample Tin	ne: C	9:40	- (milit	(06 Pagelot
		01. 1 CAN INDIAN PAR			1999 A. C.		undwater S	amples	
	If D	uplicate Sample	Collected,		well volume		TD-SWL)x(Dia.		
1		Please Record 1		_			25	Com	ments
	7.000.000.000.000	e Code # _ <u>S'W</u> e Time:	1. mm 1/2 15(11)	-107	MP Descript	tion too	of PVC	no access/pumpin	
		Site Conditio	ns		Casing Dian Casing Volu	ume (gal)	1.6 VX3(gal	$\frac{1}{1} = \frac{5.4}{1}$	_lpm -
Ne	w Site: No			·	Actual Vol.	Removed (Lite	rs.)		
Site	е Туре:				Water Level	Recovery: (s	low) moderat	e rapid	
	mon	itoring well				E	for Surface W	Vater	
	eather Conditi r Temperature	no precip:	rain	vindy snow overcast °F					
		4	A MARKE MARK			27.2	5 Pre/Po	st 27,21	
Time (ilitary)	Temp. (°C)	S.C. (µmhos/cm)	Dissolved Oxygen (mg/l)	рН	Oxidation Reduction Potential (mV)	Turbidity (n.t.u.)	Water Le (feet)	evel Total Gal	lons Pump Rate
iilitary) 3:32	(°C) PUMP ON	(µmhos/cm)	Oxygen	рН	Reduction	Turbidity (n.t.u.)	Water Le	evel Total Gal	lons Pump Rate ed LPM
(ilitary) 3:32 3:37	(°C) PUMP ON	(µmhos/cm) 3060	Охудеп (mgЛ) 7 е9]	7.21	Reduction Potential (mV) 257 µ (	Turbidity (n.t.u.)	Water Le (feet)	tvel Total Gal	lons Pump Rate ed LPM
11111111) 3:32 3:237 3:572	(°C) PUMP ON 12.7 13.4	(µmhos/cm) 3060 3056	Охудеп (mg/l) 7 е91 7 с77	7.21	Reduction Potential (mV) 257 e [ 235 e 0	Turbidity (n.t.u.) 234. 2686	Water Le (feet)	Total Gal Liters Remove 57 2 56 4	lons Pump Rate LPM
111111111 3:32 3:37 3:47 8:47	(°C) PUMP ON 12.7 13.64 14.1	(μmhos/cm) 3060 3056 3066	Охуден (mg/) 7 е91 7 с77 7 с85	7.21	Reduction Potential (mV) 257 v ( 235 v ( 235 v ( 205 v 4	Turbidity (n.t.u.) 234. 268. 176.	y Water Le (feet) 27 . 27 . 27 .	S7 7 S6 4 S7 6	lons Pump Rate LPM
(ilitary) 3:32 3:37 3:47 8:47 8:47 8:47	(°C) PUMP ON 12.7 13.4 14.1 14.1 13.5	(µmhos/cm) 3060 3056 3066 3106	0xygen (mg/) 7 e91 7 a77 7 a85 7 a85	7.21 7.22 7.22 7.22	Reduction Potential (mV) 257 . [ 235 . 0 205 . 4 [62 . 5	Turbidity (n.t.u.) 234. 268 <sub>6</sub> 176.	y Water Le (feet) 27 . 27 . 27 . 27 .	ST Cal Gal Liters Remove SG 4 SG 4 ST 6 TG 7,S	lons Pump Rate LPM
(ilitary) 3:32 3:37 3:47 8:47 8:47 8:47 8:57	(°C) PUMP ON 12.7 13.4 13.4 13.5 13.5	(µmhos/cm) 3060 3056 3066 3106 3101	Oxygen (mg/l) 7 e91 7 a77 7 a85 7 a85 7 a57 7 a79	7.21 7.22 7.22 7.22 7.22 7.22	Reduction Potential (mV) 257 v   235 v 0 205 v 4  62 v 5  38 v 0	Turbidity (n.t.u.) 234. 2684 176. 174. 132.	y Water Le (feet) 27 € 27 € 27 € 27 €	rvel Total Gal Liters Remove 57 2 56 4 57 6 46 7,5 50 9	lons Pump Rate LPM
(ilitary) 3:32 3:37 3:47 8:47 8:47 8:57 8:57 7:02	(°C) PUMP ON 12.7 13.4 14.1 13.5 13.5 13.5 13.5	(µmhos/cm) 3060 3056 3066 3106 3101 3100	0xygen (mg/) 7 e91 7 c77 7 c85 7 c85 7 c79 7 c79 7 c83	7.21 7.22 7.22 7.22 7.22 7.22 7.21 7.21	Reduction Potential (mV) 257 v ( 235 v () 205 v	Turbidity (n.t.u.) 234. 268. 176. 174. 132. 1276	Water Le (feet)           27 .	Total Gal           Liters           87           56           4           57           6           4           57           6           7           6           7           8           9           50           9           50           10,5	lons Pump Rate LPM O.º 4 O.º 4
(ilitary) 3:32 3:37 3:47 8:47 8:47 8:47 8:57 1:02 1:02 1:07 Turl	(°C) PUMP ON 12.7 13.4 13.5 13.5 13.5 13.5 13.5 13.7 14.0 bidity	(µmhos/cm) 3060 3056 3066 3106 3100 3100 3100 3100 3100	Oxygen (mg/) 7 e91 7 c77 7 c85 7 c57 7 c79 7 c79 7 c83 7 c79 7 c93	7.21 7.22 7.22 7.22 7.22 7.21 7.21 7.21	Reduction Potential (mV) 257 v ( 235 v () 205 v () 205 v () 162 v (5) 138 v () 126 v () 126 v () 118 v ()	Turbidity (n.t.u.) 234. 2684 176. 174. 132.	Water Le (feet) 27 . 27 . 27 . 27 . 27 . 27 . 27 . 27 .	rvel Total Gal Liters Remove 57 2 56 4 57 6 46 7,5 50 9	lons Pump Rate LPM O.º 4 O.º 4
(ilitary) 3:32 3:37 3:47 8:47 8:47 8:47 8:57 1:02 1:02 1:07 Turl	(°C) PUMP ON 12.7 13.4 13.4 13.5 13.5 13.5 13.7 14.0 bidity sincle) s	(µmhos/cm) 3060 3056 306 306 306 3094 Slear moderate very Field Paramet	Oxygen (mg/l) 7 .91 7 .77 7 .85 7 .57 7 .57 7 .95 7 .95 7 .79 7 .83 7 .74 Samp (d	7.21 7.22 7.22 7.22 7.22 7.21 7.21 7.21	Reduction Potential (mV) $257 \cdot 1$ $235 \cdot 0$ $205 \cdot 4$ $162 \cdot 5$ $138 \cdot 0$ $126 \cdot 9$ $118 \cdot 0$ : grab	Turbidity (n.t.u.) 234. 268. 176. 176. 174. 132. 1276 98.07 Bottles Filter or	Water Le (feet) 27 . 27 . 27 . 27 . 27 . 27 . 27 . 27 .	Total Gal           Liters           Remove           57         2           56         4           57         6           46         7.5           50         9           50'         10.5           50'         12	Additional
(ilitary) 3:32 3:37 3:47 8:47 8:47 8:47 8:57 1:02 1:02 1:07 Turl	(°C) PUMP ON 12.7 13.4 14.0 13.5 13.5 13.7 14.0 bidity s	(µmhos/cm) 3060 3056 3066 306 306 3094 Clear moderate light very Field Paramet Sample Du	Oxygen (mg/l) 7 .91 7 .77 7 .85 7 .57 7 .57 7 .57 7 .57 7 .79 7 .93 7 .79 7 .93 7 .79 (d	7.21 7.22 7.22 7.22 7.22 7.21 7.21 7.21	Reduction Potential (mV) $257 \cdot 1$ $235 \cdot 0$ $205 \cdot 4$ $162 \cdot 5$ $138 \cdot 0$ $126 \cdot 9$ $118 \cdot 0$ : grab	Turbidity (n.t.u.) 234. 2684 176. 174. 132. 1276 98.07 Bottles	Water Le (feet)           27 .           27	Total Gal           Liters           Remove           57         2           56         4           57         6           46         7,5           50         9           50         10,5           50         12           bailter	lons Pump Rate LPM Oe <sup>4</sup> Oe <sup>4</sup> O <sup>4</sup>
(ilitary) 3:32 3:37 3:47 8:47 8:47 8:47 8:47 8:47 8:57 7:02 7:07 Turl (ci	(°C) PUMP ON 12.7 13.4 14.1 13.5 14.0	(µmhos/cm) 3060 3056 306 306 306 3094 Slear moderate very Field Paramet	Oxygen (mg/l) 7 .91 7 .77 7 .85 7 .57 7 .57 7 .57 7 .57 7 .79 7 .93 7 .79 7 .93 7 .79 (d	7.2  7.22 7.22 7.22 7.22 7.22 7.22 7.21 7.621 7.621 7.621 7.621 7.622 le Method lescribe) Quantity	Reduction Potential (mV) $257 \circ 1$ $235 \circ 0$ $205 \circ 4$ $162 \circ 5$ $138 \circ 0$ $126 \circ 9$ $118 \circ 0$ : grab Size	Turbidity (n.t.u.) 234. 2684 176. 176. 176. 132. 1276 98 o 7 Bottles Filter or Unfilt.	y Water Le (feet) 27 . 27 . 27 . 27 . 27 . 27 . 27 . 27 .	Total Gal           Liters           Remove           57         2           56         4           57         6           46         7.5           50         9           50         10.5           50         12           Dailer         Dailer	Additional
(ilitary) 3:32 3:37 3:47 8:47 0:57 0:57 1:07 7:07 Turl (ci Temp S.C. (µm)	(°C) PUMP ON 12.7 13.4 14.0 13.5 13.5 13.5 13.5 13.7 14.0 bidity ircle) s (°C) 1 nos/cm) $3.5$	(µmhos/cm) 3060 3056 3066 306 306 3094 Clear moderate light very Field Paramet Sample Du	Oxygen (mg/l) 7 .91 7 .77 7 .85 7 .57 7 .57 7 .57 7 .57 7 .79 7 .93 7 .79 7 .93	7.2  7.22 7.22 7.22 7.22 7.22 7.22 7.21 7.621 7.621 7.621 7.621 7.622 le Method lescribe) Quantity	Reduction Potential (mV) $257 \circ 1$ $235 \circ 0$ $205 \circ 4$ $162 \circ 5$ $138 \circ 0$ $126 \circ 9$ $118 \circ 0$ : grab Size	Turbidity (n.t.u.) 234. 2684 176. 176. 176. 132. 1276 98 o 7 Bottles Filter or Unfilt.	y Water Le (feet) 27 . 27 . 27 . 27 . 27 . 27 . 27 . 27 .	Total Gal           Liters           Remove           57         2           56         4           57         6           46         7.5           50         9           50         10.5           50         12           Dailer         Dailer	Additional
(ilitary) 3:32 3:37 3:47 8:47 8:47 8:47 8:47 8:57 1:02 1	(°C) PUMP ON 12,7 13,4 14,0 13,5	(µmhos/cm) 3060 3056 3066 306 306 3094 Clear moderate light very Field Paramet Sample Du	Oxygen (mg/l) 7 .91 7 .77 7 .85 7 .57 7 .57 7 .57 7 .57 7 .79 7 .93 7 .79 7 .93	7.2  7.22 7.22 7.22 7.22 7.22 7.22 7.21 7.621 7.621 7.621 7.621 7.622 le Method lescribe) Quantity	Reduction Potential (mV) $257 \circ 1$ $235 \circ 0$ $205 \circ 4$ $162 \circ 5$ $138 \circ 0$ $126 \circ 9$ $118 \circ 0$ : grab Size	Turbidity (n.t.u.) 234. 2684 176. 176. 176. 132. 1276 98 o 7 Bottles Filter or Unfilt.	y Water Le (feet) 27 . 27 . 27 . 27 . 27 . 27 . 27 . 27 .	Total Gal           Liters           Remove           57         2           56         4           57         6           46         7.5           50         9           50         10.5           50         12           Dailer         Dailer	Additional
(ilitary) 3:32 3:37 3:47 8:47 0:57 7:07 7:07 Turl (ci Temp S.C. (µmł DO (n pH ORP (	(°C) PUMP ON 1Z,7 13,64 14,6 13,65 13,65 13,67 14,00 bidity ircle) s (°C) 17,73	(µmhos/cm) 3060 3056 3066 306 306 3094 Clear moderate light very Field Paramet Sample Du	Oxygen (mg/l) 7 .91 7 .77 7 .85 7 .57 7 .57 7 .57 7 .57 7 .79 7 .93 7 .79 7 .93	7.2  7.22 7.22 7.22 7.22 7.22 7.22 7.21 7.21 7.21 7.22 le Method lescribe) Quantity	Reduction Potential (mV) $257 \circ 1$ $235 \circ 0$ $205 \circ 4$ $162 \circ 5$ $138 \circ 0$ $126 \circ 9$ $118 \circ 0$ : grab Size	Turbidity (n.t.u.) 234. 2684 176. 176. 176. 132. 1276 98 o 7 Bottles Filter or Unfilt.	y Water Le (feet) 27 . 27 . 27 . 27 . 27 . 27 . 27 . 27 .	Total Gal           Liters           Remove           57         2           56         4           57         6           46         7.5           50         9           50         10.5           50         12           Dailer         Dailer	Additional
(ilitary) 3:32 3:37 3:47 8:47 9:52 8:47 9:52 8:47 9:52 8:47 9:57 7:02 7:07 Turl (ci Temp S.C. (µml DO (n pH ORP ( Turbidity	(°C) PUMP ON $1Z_{0}7$ $1Z_{0$	$(\mu mhos/cm)$ 3060 3056 3060 3056 306 300 30	Oxygen (mg/l) 7 e91 7 c77 7 c77 7 c79 7 c79 (c	7.2  7.22 7.22 7.22 7.22 7.22 7.22 7.21 7.21 7.21 7.22 le Method lescribe) Quantity	Reduction Potential (mV) $257 \circ 1$ $235 \circ 0$ $205 \circ 4$ $162 \circ 5$ $138 \circ 0$ $126 \circ 9$ $118 \circ 0$ : grab Size	Turbidity (n.t.u.) 234. 2684 176. 176. 176. 132. 1276 98 o 7 Bottles Filter or Unfilt.	y Water Le (feet) 27 . 27 . 27 . 27 . 27 . 27 . 27 . 27 .	Total Gal           Liters           Remove           57         2           56         4           57         6           46         7.5           50         9           50         10.5           50         12           Dailer         Dailer	Additional
(ilitary) 3:32 3:37 3:37 3:37 3:47 8:47 8:47 8:47 8:47 8:57 1:02 1:07 7:07 Turbidity Colu	(°C) PUMP ON $1Z_7$ $13_64$ $13_64$ $13_65$ $13_65$ $13_65$ $13_65$ $13_67$ $14_60$ bidity (°C) $12_77$ $14_60$	( $\mu$ mhos/cm) 3060 3056 30(.( 3106 3106 3106 3106 3106 3106 3106 3106 3107 3100 3100 3100 3106 3094 00 3095 00 12 30 30 30 30 30 30 30 30 30 30	Oxygen (mg/l) 7 e91 7 c77 7 c77 7 c79 7 c79 (c	7.2  7.22 7.22 7.22 7.22 7.22 7.22 7.21 7.21 7.21 7.22 le Method lescribe) Quantity	Reduction Potential (mV) $257 \circ 1$ $235 \circ 0$ $205 \circ 4$ $162 \circ 5$ $138 \circ 0$ $126 \circ 9$ $118 \circ 0$ : grab Size	Turbidity (n.t.u.) 234. 2684 176. 176. 176. 132. 1276 98 o 7 Bottles Filter or Unfilt.	y Water Le (feet) 27 . 27 . 27 . 27 . 27 . 27 . 27 . 27 .	Total Gal           Liters           Remove           57         2           56         4           57         6           46         7.5           50         9           50         10.5           50         12           Dailer         Dailer	Additional
(ilitary) 3:32 3:37 3:47 8:47 9:52 8:47 9:52 8:47 9:52 8:47 9:57 7:02 7:07 Turl (ci Temp S.C. (µml DO (n pH ORP ( Turbidity	(°C) PUMP ON $1Z_7$ $13_64$ $13_64$ $13_65$ $13_65$ $13_65$ $13_65$ $13_67$ $14_60$ bidity (°C) $12_77$ $14_60$	$(\mu mhos/cm)$ 3060 3056 3060 3056 306 300 30	Oxygen (mg/l) 7 e91 7 c77 7 c77 7 c79 7 c79 (c	7.2  7.22 7.22 7.22 7.22 7.22 7.22 7.21 7.21 7.21 7.22 le Method lescribe) Quantity	Reduction Potential (mV) $257 \circ 1$ $235 \circ 0$ $205 \circ 4$ $162 \circ 5$ $138 \circ 0$ $126 \circ 9$ $118 \circ 0$ : grab Size	Turbidity (n.t.u.) 234. 2684 176. 176. 176. 132. 1276 98 o 7 Bottles Filter or Unfilt.	y Water Le (feet) 27 . 27 . 27 . 27 . 27 . 27 . 27 . 27 .	Total Gal           Liters           Remove           57         2           56         4           57         6           46         7.5           50         9           50         10.5           50         12           Dailer         Dailer	Additional
(ilitary) 3:32 3:37 3:37 3:37 3:47 8:47 8:47 8:47 8:47 8:57 1:02 1:07 7:07 Turbidity Colu	(°C) PUMP ON $1Z_{0}7$ $1Z_{0$	( $\mu$ mhos/cm) 3060 3056 306 306 306 3094 3094 Sample Du 4,5 3094 7,60 4,5 3094 Du 4,5 3094 Du 4,5 3094 Du 4,5 3094 Du 4,5 3073 5,5 1100 2000 Du 4,5 3073 5,5 1100 4,5 3073 5,5 1100 4,5 5,5 1100 4,5 5,5 1100 4,5 5,5 1100 4,5 5,5 1100 4,5 5,5 1100 4,5 5,5 1100 4,5 5,5 1100 5,5 1000 5,5 1000 5,5 1000 5,5 1000 5,5 1000 5,5 1000 5,5 1000 5,5 1000 7,5 5,5 1000 7,5 7,5 1000 7,5 7,5 1000 7,5 7,5 1000 7,5 7,5 1000 7,5 7,5 1000 7,5 7,5 1000 7,5 7,5 1000 7,5 7,5 1000 7,5 7,5 1000 7,5 7,5 1000 7,5 7,5 7,5 1000 7,5 7,5 1000 7,5 7,5 1000 7,5 7,5 1000 7,5 7,5 1000 7,5 7,5 1000 7,5 7,5 1000 7,5 7,5 10000 7,5 7,5 10000 7,5 7,5 10000 7,5 10000 10000 10000 10000 10000 100000 100000 1000000000000000000000000000000000000	Oxygen (mg/l) 7 e91 7 e77 7 e77 7 e79 7 e83 7 e79 7 e83 7 e79 7 e79 7 e79 7 e79 (c)	7.21 7.22 7.22 7.22 7.22 7.21 7.21 7.22 le Method lescribe) Quantity	Reduction Potential (mV) $257 \circ 1$ $235 \circ 0$ $205 \circ 4$ $162 \circ 5$ $138 \circ 0$ $126 \circ 9$ $118 \circ 0$ : grab Size	Turbidity (n.t.u.) 234. 2684 176. 176. 176. 132. 1276 98 o 7 Bottles Filter or Unfilt.	y Water Le (feet) 27 . 27 . 27 . 27 . 27 . 27 . 27 . 27 .	Total Gal           Liters           Remove           57         2           56         4           57         6           46         7.5           50         9           50         10.5           50         12           Dailer         Dailer	Additional
(ilitary) 3:32 3:37 3:37 3:37 3:47 0:57 0:57 1:07 1:07 7:07 Turl (ci Temp S.C. (µmł DO (n pH ORP ( Turbidity Cold Other:	(°C) PUMP ON 1Z, 7 13, 64 14, 64 13, 64 14, 64 13, 65 13, 67 14, 60 bidity (°C) 14, 60 bidity 17, 74 14, 60 14, 70 14, 70	$(\mu m hos/cm)$ 3060 3056 3056 3067 3106 3106 3100 3094 clear moderate very <u>Field Paramet</u> Sample Du 4,5 3-73+7 7-2+75 5-5-17 6+5-5-17 6+5-5-17 6+5-5-17 6+5-5-17	Oxygen (mg/l) 7 eq 1 7 eq 2 7 eq	7.21 7.22 7.22 7.22 7.22 7.21 7.21 7.22 le Method lescribe) Quantity	$\begin{array}{c c}     Reduction \\     Potential (mV) \\     \hline     257 \circ (1) \\     235 \circ (0) \\     205 \circ (4) \\     162 \circ (5) \\     162 \circ (5) \\     138 \circ (0) \\     126 \circ (9) \\     118 \circ (0) \\     118 \circ $	Turbidity (n.t.u.) 234. 268. 176. 176. 176. 1276 98 o 7 Bottles Filter or Unfilt. F or UF	y Water Le (feet) 27 . 27 . 27 . 27 . 27 . 27 . 27 . 27 .	Total Gal           Liters           Remove           57         2           56         4           57         6           46         7.5           50         9           50         10.5           50         12           Dailer         Dailer	Additional

MW-85 Page Zofz

Time (Military)	Temp. (°C)	S.C. (µmhos/cm)	Dissolved Oxygen (mg/l)	рН	Oxidation Reduction Potential (mV)	Turbidity (n.t.u.)	Water Level (feet)	Total Gallons Liters Removed	Pump Rate GPM/LPM
- 10 10	PUMP ON	18						discission of	
29:12	14.5	3096	7.61	7.22	119.1	95.5	27,50	13.5	0.3
09:17	14.6	3092	7.67	7022	116.4	91.4	27.50	15	5
09:22		3084	7.52	7,22	108.4	75.5	27.50	16.5	
09.27	14.5	3081	7.57	7.22	108.8	67.2	27,50	18.	
09:32	14.5	3071	7.65	7021	10706	7763.9	27,50	19.5	
09:37	14,5	3073	7.60		105,5	61.5	27,50	21	4
WEN	t to s	ample 4	pump	rame	unplug	ged re	started	pump tu	iliget s
09:45	restar	pump							
09:50	12.5	3058	8,91	7.39		203	27.50	and a second a second as a second as	03
09:55	14.5	3058	7.73	7.22	114.2	61.2	27:50	240	5
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11/27/2017 11:38 AM

				TER SA HF-F	ORM-430						
Project N	ame: Sim	plot Warden			Site Desig	nation:	MW-	3	-	1.1	
Project C	ode:1	2000			Sample Co	ode Number:	SWM-0	713-	0712-	108	3
Sample T	eam Mem	ber(s): WCr	ane, RWoods			ate: 12/				000.00	
Laborato	ry Used: 1	Pace Analytica	d		Sample Ti	ime:	11:30	2	(mili	itary)	
					and the second of		oundwater				
	If Dupl	icate Sample	Collected.		well volum	ne formula: V=			100	-	
		ease Record			A		25		Con	nments	
Duplicate	Samala C	da# /		/		our'	ingi				
1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.		7		6		9.65 SWL(		no ac	cess/pumpi	ing	
Duplicate	Sample Ti	me:	:/_			ption top	01		0	-	
		City C			the second second second	ameter (I.D.)	Pumpin	g Rate	1 m		
New Site:	Na	Site Conditio		_	2.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1		20	al)=	19,5	-	
Site Type:		Photo Ta	ken: No		and the second second second	l. Removed (Lit el Recovery:		ata	nid		
one rype.	monitori	ng well			Water Levi	. (			pid		
	other:		_				For Surface	water			
Weather C	Conditions:	calm 1	oreeze v	vindy							
		to precip.)	rain	snow							
Air Tempo	aratura	clear b		overcast							
An rempe	crature	6	33	-P							
						18.	92'Pre/P	ost [8	3.92'	'	
		S.C.	Dissolved	pН	Oxidation	Turbidit	the second se	evel	TotalGal	llons	Pum
y) (°C	C)	S.C. (µmhos/cm)	Dissolved Oxygen (mg/l)	рН	Oxidation Reduction Potential (mV	Turbidit (n.t.u.)		evel		llons	Pum Rate LPM
y) (°C 50 <sup>PUMP</sup>	C) ON	(µmhos/cm)	Oxygen (mg/l)		Reduction Potential (mV	) Turbidit (n.t.u.)	y Water L (feet)	evel	TotalGal	llons	Rate LPM
ry) (°C 50 PUMP 55 14	с) • ом • З	(µmhos/cm) 1429	Oxygen (mg/l) O c2Z	7.16	Reduction Potential (mV 31,7	Turbidit (n.t.u.) 25,9	y Water L (feet	evel ,20	TotalGa Liters Remov	llons s ved	Rate
ry) (°( 50 PUMP 55 14 20 15	C) ON 3	(µmhos/cm) 1429 1423	Oxygen (mg/l)	7.16	Reduction Potential (mV 31 ,7 30 ,2	Turbidit (n.t.u.) 25.9	y Water L (feet)	evel 201	TotalGal	llons s ved	Rate LPM
ry) (°C 50 PUMP 55 14 20 15 25 15	C) ON 3 60 60	(µmhos/cm) 1429 1423 1420	0xygen (mg/l) 0 22 0 09 0 09	7.16	Reduction Potential (mV 31 ,7 30 ,2 25 ,3	Turbidit (n.t.u.) 25.9	y Water L (feet) 19, 19,	201 191	Total Gal Liters Remov	llons sed	Rate LPM
ry) (°C 50 PUMP 55 14 20 15 25 15 10 15	C) ON 3 60 60 60 60 7 7	(µmhos/cm) 1429 1423 1420 1419	Oxygen (mg/l) 0 c22 0 c09 0 c09 0 c09	7.16 7.16 7.16 7.16 7.16	Reduction Potential (mV 31,7 30,2 25,63 22,6]	Turbidit (n.t.u.) 25,9 9,6 6,1 7,61	y Water L (feet) 19, 19, 19, 19,	201 191 191	Total Gal Liters Remov 4 12		Rate LPM
(%)           (%)	C) ON .3 .0 .0 .1 .3	(µmhos/cm) 1429 1423 1420 1419 1418	Oxygen (mg/l) O 222 O 009 O 009 O 010 O 010	7.16 7.16 7.16 7.16 7.16 7.16	Reduction Potential (mV 31.7 30.2 25.63 22.6] 24.02	Turbidit (n.t.u.) 25,9 9,6 6,1 7,01 . 3,0	y Water L (feet) 19, 19, 19, 19, 19,	201 191 191 191 201	Total Gal Liters Remov 4 9 12 16 20	llons sed	Rate LPM
ry) (°C 50 PUMP 55 14 00 15 05 15 10 15 15 15 20 15	C) ON 0 0 0 0 0 0 0 0 0 0 0 0 0	(µmhos/cm) 1429 1423 1420 1419 1418 1420	Oxygen (mg/l) 0 €22 0 €09 0 €09 0 €09 0 €08 0 €08	7.16 7.16 7.16 7.16 7.16 7.16 7.16 7.16	Reduction Potential (mV 31 .7 30 .2 25 .3 22 .1 24 .2 17 .5	Turbidit (n.t.u.) 25,9 9 & 6 .1 7 ol 3 .C 2 6 %	y Water L (feet) 19, 19, 19, 19, 19, 19, 19, 19, 19,	20 19 19 19 19	Remov Liters Remov 4 12 16 20 24	sed	Rate LPM
ry) (°C 50 PUMP 55 14 20 15 05 15 10 15 15 15 20 15 25 15	C) ON 0 .3 .0 .0 .0 .1 .3 .2 .3 .3	(µmhos/cm) 1429 1423 1420 1419 1418 1420 1417	Oxygen (mg/l) O 222 O 009 O 009 O 009 O 009 O 008 O 008 O 008 O 008	7.16 7.16 7.16 7.16 7.16 7.16 7.15 7.15	Reduction Potential (mV 31 ,7 30 ,2 25 ,3 22 , 1 24 ,2 17 , 1 21 , 9	Turbidit (n.t.u.) 25,9 9,6 6,1 7,01 . 3,0	y Water L (feet) 19, 19, 19, 19, 19, 19, 19, 19, 19, 19,	201 191 191 191 191 191	Total Cal Liters Remov 4 12 16 20 24 20 24	sed	Rate LPM
$\begin{array}{c} (0,0) \\$	C) ON 3 60 60 60 60 60 60 60 60 60 60	(µmhos/cm) 1429 1423 1420 1419 1418 1420 1417 moderate	Oxygen (mg/l)	7.16 7.16 7.16 7.16 7.16 7.16 7.16 7.15 7.15	Reduction Potential (mV 31 ,7 30 ,2 25 ,3 22 , 1 24 ,2 17 , 1 21 , 9	Turbidit (n.t.u.) 25,9 9 & 6 .1 7 ol 3 .C 2 6 %	y Water L (feet) 19, 19, 19, 19, 19, 19, 5, 19, 5, 19, 5, 19, 5, 19,	201 191 191 191 191	Remov Liters Remov 4 12 16 20 24	sed	Rate LPM
m)         m           50         PUMP           55         14           20         15           20         15           0         15           25         15           20         15           20         15           20         15           20         15           20         15	C) ON ON 0 0 0 0 0 0 0 0 0 0 0 0 0	(μmhos/cm) <u>1429</u> <u>1423</u> <u>1420</u> <u>1418</u> <u>1420</u> <u>1417</u> moderate very	Oxygen (mg/l) O cZZ O c09 O c09 O c09 O c09 O c08 O c08 O c08 O c08 O c08 O c08 O c08 O c08 O c09 O c000 O c000	7.16 7.16 7.16 7.16 7.16 7.16 7.15 7.15	Reduction Potential (mV 31 ,7 30 ,2 25 ,3 22 , 1 24 ,2 17 , 1 21 , 9	Turbidit (n.t.u.) 25.9 9.6	y Water L (feet) 19 19 19 19 0 19 6 19 6 19 6 19 6 19 6	201 191 191 191 191	Total Cal Liters Remov 4 12 16 20 24 20 24	sed	Rate LPM
$\begin{array}{c} y) & (% \\ \hline y) & (% \\ y) $	C) ON ON 0 0 0 0 0 0 0 0 0 0 0 0 0	(µmhos/cm) <u>1429</u> <u>1423</u> <u>1420</u> <u>1418</u> <u>1420</u> <u>1417</u> moderate very ield Paramet	Oxygen (mg/l) O cZZ O c09 O c09 O c09 O c09 O c08 O c08 O c08 O c08 O c08 O c08 O c08 O c08 O c09 O c000 O c000	7.16 7.16 7.16 7.16 7.16 7.16 7.16 7.15 7.15	Reduction Potential (mV 31 ,7 30 ,2 25 ,3 22 , 1 24 ,2 17 , 1 21 , 9	Turbidit (n.t.u.) 25.9 9.6	y Water L (feet 19, 19, 19, 19, 19, 19, 19, 19, 19, 2°Grundfos Collected	20 19 19 19 19 19 19 19	Total Cal Liters Remov 4 12 16 20 24 20 24	sed	
ry) (°C <u>50</u> PUMP <u>55</u> <u>14</u> <u>90</u> <u>15</u> <u>95</u> <u>15</u> <u>10</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>20</u> <u>15</u> <b>Turbidity</b> (circle)	C) ON ON O O O O O O O O O O O O O O O O	(µmhos/cm) <u>1429</u> <u>1423</u> <u>1420</u> <u>1418</u> <u>1420</u> <u>1417</u> moderate very <u>ield Paramet</u> plc Du	Oxygen (mg/l) O c22 O c09 O c09 O c09 O c08 O c08 O c08 O c08 O c08 O c08 O c08 O c09 O c000 O c000	7.16 7.16 7.16 7.16 7.16 7.16 7.15 7.15 7.15 7.15 le Method: lescribe) Quantity	Reduction Potential (mV 31,7 30,2 25,3 22,61 24,62 17,61 21,69 size	$\begin{array}{c} \text{Turbidit}\\(n.t.u.)\\ \hline \\ \hline$	y Water L (feet 19, 19, 19, 19, 19, 19, 19, 19, 19, 19,	evel 20 19 19 19 19 19 19 19 19 19 19 19 19	Total Gal Liters Remov 4 12 16 20 24 20 20 ailer		Rate LPM 0,8
ry) (°C <u>50</u> PUMP <u>55</u> <u>14</u> <u>20</u> <u>15</u> <u>10</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>20</u> <u>15</u> <u>25</u> <u>15</u> <b>Turbidity</b> (circle) Turbidity	$\begin{array}{c} c) \\ ON \\ \bullet & 3 \\ \bullet & 0 \\ \bullet & 0$	(µmhos/cm) <u>1429</u> <u>1423</u> <u>1420</u> <u>1418</u> <u>1420</u> <u>1417</u> moderate very <u>ield Paramet</u> ple Du	Oxygen (mg/l) O c22 O c09 O c09 O c09 O c08 O c08 O c08 O c08 O c08 O c08 O c08 O c09 O c000 O c000	7.16 7.16 7.16 7.16 7.16 7.16 7.16 7.15 7.15 7.15	Reduction Potential (mV 31.7 30.22 25.63 22.61 24.62 17.61 21.69 grab	$   \begin{array}{c}     Turbidit \\     (n.t.u.) \\     \hline      \hline     \hline     \hline      \hline     \hline     \hline     \hline      \hline       $	y Water L (feet 19, 19, 19, 19, 19, 19, 19, 19, 19, 2°Grundfos Collected	evel 20 19 19 19 19 19 19 19 19 19 19 19 19 19	Total Gal Liters Remov 4 8 12 12 20 20 20 20 20 20 20 20 20 20 20 20 20	Additi	Rate LPM 0,8
ry) (°C <u>PUMP</u> <u>55</u> <u>14</u> <u>20</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u></u>	$\begin{array}{c} c \\ c$	(μmhos/cm) <u>1429</u> <u>1423</u> <u>1420</u> <u>1418</u> <u>1420</u> <u>1417</u> moderate very ield Paramet plc Du	Oxygen (mg/l) O c22 O c09 O c09 O c09 O c09 O c08 O c08 O c08 O c08 O c08 O c08 O c09 O c000 O c000	7.16 7.16 7.16 7.16 7.16 7.16 7.15 7.15 7.15 7.15 le Method: lescribe) Quantity	Reduction Potential (mV 31,7 30,2 25,3 22,61 24,62 17,61 21,69 size	$\begin{array}{c} \text{Turbidit}\\(n.t.u.)\\ \hline \\ \hline$	y Water L (feet 19, 19, 19, 19, 19, 19, 19, 19, 19, 19,	evel 20 19 19 19 19 19 19 19 19 19 19 19 19 19	Total Gal Liters Remov 4 12 16 20 24 20 20 ailer	Additi	Rate LPM 0,8
mathematical     mathematical       mathematical     mathmatical       mathematical	$\begin{array}{c} c \\ c$	(µmhos/cm) <u>1429</u> <u>1423</u> <u>1420</u> <u>1418</u> <u>1420</u> <u>1417</u> moderate very <u>ield Paramet</u> ple Du	Oxygen (mg/l) O c22 O c09 O c09 O c09 O c09 O c08 O c08 O c08 O c08 O c08 O c08 O c09 O c000 O c000	7.16 7.16 7.16 7.16 7.16 7.16 7.15 7.15 7.15 7.15 le Method: lescribe) Quantity	Reduction Potential (mV 31,7 30,2 25,3 22,61 24,62 17,61 21,69 size	$\begin{array}{c} \text{Turbidit}\\(n.t.u.)\\ \hline \\ \hline$	y Water L (feet 19, 19, 19, 19, 19, 19, 19, 19, 19, 19,	evel 20 19 19 19 19 19 19 19 19 19 19 19 19 19	Total Gal Liters Remov 4 12 16 20 24 20 20 ailer	Additi	Rate LPM 0,8
y)     (%)       50     PUMP       55     14       20     15       0     15       15     15       25     15       20     15       25     15       25     15       25     15       25     15       25     15       0     15       25     15       0     15       0     15       0     15       0     15       0     0       0     (mg/l)       pH	$\begin{array}{c} c) \\ ON \\ \bullet \\ $	(µmhos/cm) <u>1429</u> <u>1423</u> <u>1420</u> <u>1418</u> <u>1420</u> <u>1417</u> moderate very <u>ield Paramet</u> ple Du <u>23</u> <u>17</u> <u>10</u> 15	Oxygen (mg/l) O c22 O c09 O c09 O c09 O c09 O c08 O c08 O c08 O c08 O c08 O c08 O c09 O c000 O c000	7.16 7.16 7.16 7.16 7.16 7.16 7.15 7.15 7.15 7.15 le Method: lescribe) Quantity	Reduction Potential (mV 31,7 30,2 25,3 22,61 24,62 17,61 21,69 size	$\begin{array}{c} \text{Turbidit}\\(n.t.u.)\\ \hline \\ \hline$	y Water L (feet 19, 19, 19, 19, 19, 19, 19, 19, 19, 19,	evel 20 19 19 19 19 19 19 19 19 19 19 19 19 19	Total Gal Liters Remov 4 12 16 20 24 20 20 ailer	Additi	Rate LPM 0,8
ry) (°C <u>PUMP</u> <u>55</u> <u>14</u> <u>20</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u></u>	$\begin{array}{c} c) \\ ON \\ \bullet \\ $	(µmhos/cm) <u>1429</u> <u>1423</u> <u>1420</u> <u>1418</u> <u>1420</u> <u>1417</u> moderate very ield Paramet plc Du <u>3</u> <u>117</u> <u>10</u> <u>15</u> <u>9</u>	Oxygen (mg/l) O c22 O c09 O c09 O c09 O c09 O c08 O c08 O c08 O c08 O c08 O c08 O c09 O c000 O c000	7.16 7.16 7.16 7.16 7.16 7.16 7.15 7.15 7.15 7.15 le Method: lescribe) Quantity	Reduction Potential (mV 31,7 30,2 25,3 22,61 24,62 17,61 21,69 size	$\begin{array}{c} \text{Turbidit}\\(n.t.u.)\\ \hline \\ \hline$	y Water L (feet 19, 19, 19, 19, 19, 19, 19, 19, 19, 19,	evel 20 19 19 19 19 19 19 19 19 19 19 19 19 19	Total Gal Liters Remov 4 12 16 20 24 20 20 ailer	Additi	Rate LPM 0,8
ry) (°C <u>PUMP</u> <u>55</u> <u>14</u> <u>20</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u>15</u> <u></u>	$\begin{array}{c} c) \\ ON \\ \bullet \\ $	$(\mu mhos/cm)$ 1429 1423 1420 1419 1418 1420 1417 moderate very ield Paramet ple Du 23 17 10 15 9 3	Oxygen (mg/l) $\bigcirc c22$ $\bigcirc c09$ $\bigcirc c09$ $\bigcirc c09$ $\bigcirc c09$ $\bigcirc c08$ $\bigcirc c08$	7.16 7.16 7.16 7.16 7.16 7.16 7.15 7.15 7.15 7.15 le Method: lescribe) Quantity	Reduction Potential (mV 31,7 30,2 25,3 22,61 24,62 17,61 21,69 size	$\begin{array}{c} \text{Turbidit}\\(n.t.u.)\\ \hline \\ \hline$	y Water L (feet 19, 19, 19, 19, 19, 19, 19, 19, 19, 19,	evel 20 19 19 19 19 19 19 19 19 19 19 19 19 19	Total Gal Liters Remov 4 12 16 20 24 20 20 ailer	Additi	Rate LPM 0,8
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Hydrome	etrics, Inc.	C/T		D ODEE		Consulting		u Engineers	
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dilitary) (°C کې PUMP کې	C) / (μmhos/o	cm) O	xygen mg/l)	рН	Reduction Potential (mV	/ (n.t.u.	ity Water Le	vel Total Gallon Liters	Rate
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	oject Code:	weather is a back or which be the or			Sample Code	Number:	SWM-0713-0	0712-110	
		mber(s): <u>WCra</u>			Sample Date	: 12/5	25		
La	iboratory Used	Pace Analytica			Sample Time	. 12		(military)	
		plicate Sample Please Record 1			well volume f	For Groun ormula: V= <u>(TD</u>	ndwater Sam -SWL)x(Dia. <sup>2</sup> ) 25	<u>Comments</u>	5
Du	plicate Sample	Code #	_/		TD (ft.)32,	9 SWL(R) 2	26.19 10 2	ccess/pumping	
Du	plicate Sample	Time: /	_:/		MP Descriptio	n top at	F PVC	0 710.15	V
		Site Conditio			Casing Diame Casing Volum	ter (I.D.) ne (gal)	Pumping Rate	0,2015 3.3	*
1.155	ew Site: No	Photo Ta	ken: No			emoved (Liters.)			
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	other:	0				FOR	Surface Wate		
Ai	r Temperature	clear	p. cloudy	snow overcast °F		76,75	Pre/Post 2	26,12'	
ie ary)	Temp. (°C)	S.C. (µmhos/cm)	Dissolved Oxygen (mg/l)	рН	Oxidation Reduction Potential (mV)	Turbidity (n.t.u.)	Water Level (feet)	Total Gallons Liters Removed	Pump Rate LPM
or'	PUMP ON	and share in the							
.05		2424		7.20	196.8	11.5	26.75		0.2,
10	10.0	211/2				17.4	11. 47	1,15/12/1.75	
10 15	12.0	2452	4.09	7.18	189.0	7.4	26.82	12151 2/20	V
10 15 20	12,0	2450	3.94	7.18	184.2	4.8	26.83	\$2.5	X
10 15 20 25	12.0 12.3 12.4	2450 2457	3.94	7.18	184.2	4.8	26.83	3,25	¥
10 15 20 25 30	12,0	2450	3.94 3.62 3.64	7.18 7.18 7.18	184.2 180.1 175.9	4.8	26.83 26.82 26.82	3,25	ł
10 15 20 25 30	12.0 12.3 12.4 12.3	2450 2457	3.94	7.18	184.2	4.8	26.83	3,25	XXX
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10 15 20 725 30 	2 €0  2 63  2 63  2 64  2 63 0 6 bidity Cla slip (°C) [7 hos/cm) [2] mg/l) 3	2450 2457 2470 ap moderate yery Field Paramet ample Du 203 2470 2470 264	3,94 3,62 3,64 6 5 8 8 8 8 9 (0 9	7 6 18 7 6 18 7 6 18 6 6 1e Method lescribe) Quantity	18462 18061 17569 6 5 grab Size Fi	4.8 3.7 6 0 <u>80ttles Cc</u> ilter or Pro	Z6 83 Z6 8Z Z6 8Z e v pump "Grundfos ollected eservative Par	bailer Add	itional
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10 15 20 25 30 Τυr (c (μm) DO (i pH) DRP	12     0       12     3       12     3       12     3       12     3       12     3       12     3       12     3       0     6       bidity     6       bidity     6       6     12       6     12       6     12       6     12       6     12       6     12       6     12       6     12       6     12       6     12       6     12       6     12       6     12       6     12       6     12       6     12       7     12       7     12       7     12       7     12       7     12       7     12       7     12       7     12       7     12       7     12       7     12       7     12       7     12       7     12       7     12	$\frac{2450}{2457}$ $\frac{2457}{2470}$ moderate ght very $\frac{Field Paramet}{200}$ $\frac{203}{2470}$ $\frac{203}{2470}$ $\frac{203}{267}$ $\frac{203}{267}$	3,94 3,62 3,64 6 5 8 8 8 8 9 (0 9	7 6 18 7 6 18 7 6 18 6 6 1e Method lescribe) Quantity	18462 18061 17569 6 5 grab Size Fi	4.8 3.7 6 0 <u>80ttles Cc</u> ilter or Pro	Z6 83 Z6 8Z Z6 8Z e v pump "Grundfos ollected eservative Par	bailer Add	itional
io 15 20 25 30 Tur (c (µm) DO (r pH DRP bidity Col	12       40         12       43         12       44         12       63         6       6         bidity       6         6       6         6       6         6       7         6       7         12       63         6       7         12       63         6       7         12       63         6       7         12       63         6       7         13       7         14       7         17       7         10       7         10       7         10       7         10       7	2450 2457 2470 2470 rap moderate $veryField Parametmple Du 20324702032470203247020320324702032470203$	3 .94 3 .62 3 .64 6 5 Samp (c	7 6 18 7 6 18 7 6 18 6 6 6 1e Method: lescribe) Quantity 3	184 6 Z 180 81 175 69 6 5 grab Size Fi 40 ml F	4.8       3.7       2.7       6       0       Bottles Co       Jnfilt.       or UF	Z6 83 Z6 8Z Z6 8Z 6 v pump "Grundfos ollected eservative Par HCL	bailer Add	itional
10 15 20 25 30 Tur (c Cemp (µm DO (µ pH DO (µ pH DO (µ pH DO (µ her:	12     0       12     3       12     3       12     3       12     3       12     3       12     3       12     3       12     3       12     3       12     3       12     3       12     3       12     3       6     6       bidity     6       6     12       bidity     6       6     12       hos/cm)     12       mg/l)     3       H     7       (mV)     (7)       y (n.t.u.)     12       lor     12       Odor     12	2450 2457 2470 2470 rap moderate $veryField Parametmple Du 20324702032470203247020320324702032470203$	3 .94 3 .62 3 .64 6 5 Samp (c	7 6 18 7 6 18 7 6 18 6 6 6 1e Method: lescribe) Quantity 3	18462 18061 17569 6 5 grab Size Fi	4.8       3.7       2.7       6       0       Bottles Co       Jnfilt.       or UF	Z6 83 Z6 8Z Z6 8Z 6 v pump "Grundfos ollected eservative Par HCL	bailer Add	itional

Destant Manager Charles March 1	Er-	FORM-430	RM	0		61
Project Name: Simplot Warden		Site Designat	tion:	MOW_ Kin	sate Blan	JK
Project Code: 12000		Sample Code	e Number:	SWM-0713-	0712-111	
Sample Team Member(s): <u>WCrar</u>	ne, RWoods		12/5			
Laboratory Used: Pace Analytical		Sample Time	e:13	5:10	(military)	
			For Grou	ndwater Sam	ples	
If Duplicate Sample		well volume f	formula/ V= <u>(TD</u>		/	
Please Record B	elow	-	-/	25	Comments	
Duplicate Sample Code #		TD (ft.)	SWL(ft)	00	access/pumping	
Duplicate Sample Time:	:/		on tope		recess pumping	
				Pumping Rate	lpm	
Site Condition	15	Casing Volum		VX3(gal)=	/	
New Site: No Photo Tak	en: No		Removed (Liters.)	7	/	
Site Type:		Water Level I	Recovery: slow	w / moderate	rapid /	
other: QA/QC	see remarks		For	r Surface Wate	r	_
	eeze windy					
(no precip)	rain snow					
	cloudy overcast					
Air Temperature	37 °F		-	-		
The second second				Pre / Post		
ne Temp. S.C.	/ Dissolved pH	Oxidation	Turbidity	Water Level	Total Gallons	Pun
	Ovugan	Daduation	(m + m)	(Fact)	T itame	
itary) (°C) (µmhos/cm)	Oxygen (mg/l)	Reduction Potential (mV)	(n.t.u.)	(feet)	Liters Removed	Rat LPI
tary) (9C) (μmhos/cm) PUMP ON			(n.t.u.)	(feet)		
tary) (9C) (µmhos/em)			(n.t.u.)	(feet)		
tary) (9C) (µmhos/em)	(mg/l)	Potențial (mV)				
tary) (9C) (µmhos/cm)	(mg/l)	Potenfial (mV)		/.		
tary) (9C) (µmhos/em)	(mg/l)	Potenfial (mV)		/. /.		
tary) (9C) (μmhos/em)	(mg/l)	Potenfial (mV)		/ .		
tary) (9C) (µmhos/cm)	(mg/l)	Potenfial (mV)		/. /.		
tary) (9C) (µmhos/cm)	(mg/l)	Potenfial (mV)	, 6 0 0 6			
tary) (9C) (µmhos/cm) PUMP ON 6 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7	(mg/l)	Potenfial (mV)			Removed	
tary) (9C) (μmhos/cm) PUMP ON 6 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7	(mg/l)	Potenfial (mV)	6 6 6 6 7 7 8 8 7 8 7 8 7 7 7 7 7 7 7 7	e e e e pump "Grundfos oblected	Removed	
tary) (9C) (µmhos/cm) PUMP ON 6 6 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7	(mg/l)	Potenfial (mV)	6 6 6 6 7 7 8 7 8 7 7 8 7 7 7 7 7 7 7 7	o c c c c c c c c c c c c c c c c c c c	Removed	
tary) (9C) (µmhos/cm) PUMP ON 6 6 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7	(mg/l)	Potenfial (mV)	6 6 6 6 7 7 8 8 7 8 7 7 7 7 7 7 7 7 7 7	o c c c c c c c c c c c c c c c c c c c	Removed	tional
tary) (9C) (μmhos/cm) PUMP ON PUMP ON PUMP ON Comparison Com	(mg/l)	Potenfial (mV)	6 6 6 6 7 7 8 7 8 7 7 8 7 7 7 7 7 7 7 7	o c c c c c c c c c c c c c c c c c c c	Removed	tional
tary) (°C) (µmhos/cm) PUMP ON PUMP ON	(mg/l)	Potenfial (mV)	6 6 6 6 7 7 8 7 8 7 7 8 7 7 7 7 7 7 7 7	o c c c c c c c c c c c c c c c c c c c	Removed	tional
tary) (9C) (μmhos/cm) PUMP ON PUMP ON PUMP ON Comparison Com	(mg/l)	Potenfial (mV)	6 6 6 6 7 7 8 7 8 7 7 8 7 7 7 7 7 7 7 7	o c c c c c c c c c c c c c c c c c c c	Removed	tional
tary) (°C) (µmhos/cm) PUMP ON PUMP ON PUMP ON Comparison Comp	(mg/l)	Potenfial (mV)	6 6 6 6 7 7 8 7 8 7 7 8 7 7 7 7 7 7 7 7	o c c c c c c c c c c c c c c c c c c c	Removed	tional
tary) (°C) (μmhos/cm) PUMP ON PUMP O	(mg/l)	Potenfial (mV)	6 6 6 6 7 7 8 7 8 7 7 8 7 7 7 7 7 7 7 7	o c c c c c c c c c c c c c c c c c c c	Removed	tional
tary) (°C) (μmhos/cm) PUMP ON PUMP ON PUMP ON Comparison Com	(mg/l)	Potenfial (mV)	6 6 6 6 7 7 8 7 8 7 7 8 7 7 7 7 7 7 7 7	o c c c c c c c c c c c c c c c c c c c	Removed	tional
tary) (°C) (μmhos/cm) PUMP ON PUMP O	(mg/l)	Potenfial (mV)	6 6 6 7 7 8 7 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	c c c c c c c c c c c c c c c c c c c	Removed	tional

**Consulting Scientists and Engineers** Hydrometrics, Inc. STANDARD OPERATING PROCEDURE WATER SAMPLING FORM HF-FORM-430 MW- 55 Site Designation: Project Name: Simplot Warden SWM-0713 0712-112 Sample Code Number: Project Code: \_\_\_\_12000 Sample Date: \_\_\_\_\_ 12/ 5 /17 Sample Team Member(s): WCrane, RWoods 14:50 (military) Sample Time: Laboratory Used: Pace Analytical Page lof 2 For Groundwater Samples well volume formula: V=(TD-SWL)x(Dia.2) If Duplicate Sample Collected, Comments Please Record Below S. MS, MSD 25 SWM-0712-112 TD (A) 39, 25 SWL(A) 25.62 Duplicate Sample Code # \_no access/pumping\_ MP Description \_ too of 4 50 Duplicate Sample Time: 0,5/0.4 2" Pumping Rate\_ 0.0 Casing Diameter (I.D.) Casing Volume (gal) 2, Z 6.6 VX3(gal)= Site Conditions 30,5 Actual Vol. Removed (Liters.) New Site: Photo Taken: No No Water Level Recovery: (slow) moderate rapid Site Type: For Surface Water monitoring well other: Weather Conditions: (calm) windy breeze (no precip.) rain snow clear) p. cloudy overcast °F Air Temperature 40 25.72 Pre/Post 25.66 Pump **Total Gallons** Turbidity Water Level S.C. Dissolved pH Oxidation Temp. Time (n.t.u.) (feet) (Liters) Rate O.k Reduction Oxygen (Military) (°C) (umhos/cm) LPM Removed Potential (mV) (mg/l) PUMP ON 13:27 0.5 ,20 7.26 157. 25 99 227 2,5 3996 · 0 13032 14 4 5 28 201 25 97 4.5 0.40 0 110. 3956 5 OI 7 15 13:37 ø 921657.5 90 7,28 186 4 67.6 25 3942 4 13:42 15 8 .92 8.5 7.28 64 4904 25 3951 4 . 8 075 6 13:47 15 .92 10.5 7.28 3701 25 3915 4 64 151 07 13:52 16 00 V 12,5 2802 25 692 3877 7028 4307 13:57 1601 4 657 2308 25 92 14,5 3 3823 049 7.28 3765 14:02 6 L bailer pump grab clear moderate Sample Method: Turbidity 2"Grundfos (describe) (circle) slight very **Bottles Collected Field Parameters** Additional Filter or Preservative Parameter Quantity Size Sample Duplicate Notes Unfilt. EDB 40 ml F or UF HCL. 9 Temp (°C) 6.4 S.C. (µmhos/cm) 3452 DO (mg/l) 4,06 .30 pH 26.9 ORP (mV) Turbidity (n.t.u.) 6.7 NONE Color NON Other: Odor Comments: Pump cycles 2/25 Hes Vane of Page a Sample Team Member Signature: ۱ A

J:\Wcrane\Sample Form Warden - Simplot.Doc\\11/27/17\034

11/27/17 11:46 AM

MW-55 Page ZofZ

Time (Military)	Temp. (°C)	S.C. (µmhos/cm)	Dissolved Oxygen (mg/l)	рН	Oxidation Reduction Potential (mV)	Turbidity (n.t.u.)	Water Level (feet)	Total Gallons Liters Removed	Pump Rate GPM(LPM)
- <b>B</b> 	-PUMP ON								
14:07	16.3	3753	4.38	7,28	133.1	18.8	25.92	16.5	0.4
14:12	16.3	3707	4.38	7:29	13107	15.6	25.92	18.5	1
14:17	16,3	3636	4,12	7,29	127.5	13 ,7	25.92	20.5	
14:22	16.3	3613	4,25	7.29	12703		25.92	22.5	
14:27	16.4	3555	4.14	7:29	127.3	7.9	25,92	24.5	
14:32	16.4	351Z	4.04	7.29	126.2	7.9	25.92	26.5	+
4:37	16.4	3484	4.05	7.29	126.5	6.6	25.92	28.5	1
14:42	16.4	3452	4.06	7,30	126.9	6.7	25092	30.5	Y
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Pace Analytical

# CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

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Section A Recuired Client Information:	Section B Required Project Information:	Inform	ation:				0 2	Section C	C								Page:		, jo	2	
Company HDR ENDINERLING	Report To:	ichae	100	Murvar	iau		8	Attention:	Attention: 7.	ANG	Y	Will	Sec	Ē				2	34	768	
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\*Important Nole: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any involces not paid within 30 days.

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# CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Resulted Client Information:	2	Required Project Information	ant Info	mation.					Tanta	and and	and a second									L				
Company:		Report To:							Atten	Attention:	mauon.						-			-	~ ~	213	47	63
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Phone: Fax: W		Project Name:							Pace	Pace Project Manager:							Site	Site Location	uo					
Requested Due Date/TAT:		Project Number:	ų						Pace	Pace Profile #.							-	STATE:	ů,		1			
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SAMPLE ID (A.Z. 0.9/) Sample IDs MUST BE UNIQUE	Wipe Air Tissue Other			DATE	E TIME		DATE	E TA 9M9T 3J9MA2	# OF CONTAINER	H <sup>5</sup> SO <sup>¢</sup> Nubreserved	<sup>E</sup> ONH	NaOH NaOH HCI	Na <sub>z</sub> S <sub>z</sub> O <sub>3</sub> Methanol Other	teeT sisylenA	103 903						Residual Chlorine	Pac	Project	Pace Project No./ Lab I.D
TO-MWS 1	211-21	(x3) MT	5	12/5/17	OSIHI LI				Q9			X			Kem	pla,	mat	X	spil	241	risdu	10	4	
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		3				PRIN	PRINT Name of SAMPLER:	SAMPLE		NaH	2.	CTC	Lane	Y.	Kay	and Wo	Noods				ui qme	ceivec (Y/) 90	(V/V) Dustod	(N/Y)
										-	1000											-		

### Hydrometrics, Inc. A Consulting Scientists and Engineers

### STANDARD OPERATING PROCEDURE INSTRUMENT CALIBRATION FORM HF-FORM-500

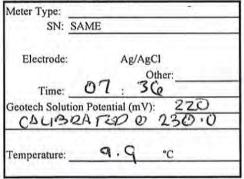
<b>Project Name:</b>	SIMP	LOT - WARD	DI V
Project Number:	17	000	
Date:	12/4/1	7	-
Personnel:	12.	wood~	-
Weather Conditio	ns:		
calm	breeze	windy	
no precip	rain	snow	
clear	p. cloudy	overcast	
Calilbration complete	d inside of lab.		
Air Temperature:		°C	

Meter Type:	451 5 07010		
Time	Buffer	Temperature °C	Reading (Temp Corrected)
07:27	4	9.6 °C	4.00
07:24	7	9.5 %	7.04
07:30	10	9.8 °C	10.08
alibration check:			

### **Dissolved Oxygen**

SN: S	AME
Time:	07:46
Calibration Rest	ilts:mg/L 9.95
Barometric Pres	sure: 739,1 mm Hg

### **Redox Potential (Eh)**



### **Specific Conductance**

Time	Standard	Temperature °C	Reading (Temp Corrected)	Cell Factor
07:33	1413	9.00	1413	1.00

### Turbidity

Meter Type:	HACH	SN:
Time	Standard	Reading
07:35	<0.1	0.5
07:30	20	19.2
07:4	0 100	95.8

# Notes/Additional Information:

### STANDARD OPERATING PROCEDURE INSTRUMENT CALIBRATION FORM HF-FORM-500

°C

<b>Project Name:</b>	SIMPL	ot-ward	S		
Project Number:	1200	x			
Date:	12/5/17 R. WOODS				
Personnel:					
Weather Condition	ns:				
calm	breeze	windy			
no precip	rain	snow			
clear	p. cloudy	overcast			
Calilbration complete	d inside of lab.				

Meter Type:	YS1 5		
Time	Buffer	Temperature °C	Reading (Temp Corrected)
7:46	4	13.6 °C	
7:39	7	13.9 °C	7.04
7: 113	10	14.2 °C	10.08

SN: SAME

Reading

(Temp Corrected) 1413 Cell Factor

1.00

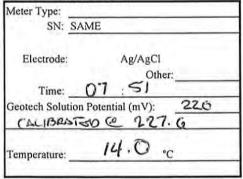
### Dissolved Oxygen

°F

Air Temperature:

SN: 5	SAME
Time:	08:01
Calibration Res	ults:mg/L 9.70
Barometric Pre	ssure: 743.3 mm Hg

### **Redox Potential (Eh)**



# Turbidity

Meter Type:

Time

07:48

Calibration check:

 $|\dot{q}\rangle$ 

**Specific Conductance** 

Standard

1413

Turbialty			
Meter Type: HACH		SN:	
Time	Standard	Reading	
07:47	<0.1	0.3	
07:48	20	19.4	
07:49	100	95.5	

Temperature °C

14.0 .0

## Notes/Additional Information:

### 12/2/2017 4:36 PM

Hydrometrics, Inc. , Consulting Scientists and Engineers

6 Arched in Meses Lake [2]3/17 22030 he. Drove to worded and arrived @ Simpler a 07:00. Neet w/ Jeft - Jo stite site visit. Walter Crawe & Ruy Woods were the Hydrametrics field scinpling even weather for (2/4/17 was P. Cloudy, were greeige, and bridge most of day. Air timp ranged from 320-370 F took awhile to find, flush menut burned wuder wits the rusted toget out 19,19, to try cosal "dy", standing water only 19,19, to try took a long time to get hild be the art Orobably just water in the endage
 Set shuck belt out some standing
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 Juck のううで Used In-Situ WL meter 25.841 Jouble Ved - switched meters Site Date Time Surt Reviews MW-65 Izlylin 07:59 Ze 19 Zo.99 ' 08:12 ", shek" will roue back MW-75 08:07 Z5.85 Z5.88 ' [och "shek" will roue back MW-75 08:06 Horden 20.74 ' 25.84 ' Jouble Ved - swithed muter MW-55 08:20 Z5.62 Z0.60 Z0.60 MW-55 08:20 Z5.62 Z0.60 Z0.60 Z0.60 Z0.60 Z0.70 Z0.7 ( rau 20,56 Walter \* had to go by special socket to water in flush mount, bown 21 well 08:52 25 24 21.79 08:54 22 60 18.31 08:29 Above 18.15 51/32/01 08:30 23,61 18.38 06:36 20,38 DRY Sol-MW MW-95 2-MW (89) H-MW -MM

Odor-slight Vol- 17.5 Bat Liters Catites SUN Names-RL, CD- iNL, RW E たったの Odor-<u>No.ve</u> Vol-<u>40 eat</u> L. Color- NONE 0.5 2" Grundfos Pump 2" Grundfos Pump Color- NONC ORP (26.2 mv purp cycles ~ 1372" Grundfos Pump Turb- 2.2 NTU Pump Set @ mrd-screed pump cyclesser130 2" Grundfos Pump Color- Neve Purge and Sample Purge and Sample NON Color- NONE Purge and Sample Odor- NO:NO Vol- 19,5 C Names-WC,RW Names-WC,RW Remarks . Names-WC,RW 614 0.3 Remarks CHALLP.M Remarks 「こう」という」 Pump Set @ mid-screed Pump Set @ mid St Heen Pump Set @ . wid - Sirren ORP\_138.7mv pumpeyelus - 126 2" Gru Turb-113\_NTU Pump Set @ midserreed Tempi 7.9 C SC-2306 DO 5.28 mg/L PH 71.5 mv ORP 77.3 mv Pump cycles 2 22 DO 5.28 mg/L N DO 5.28 mg/L DO 5. Analysis Analysis Analysis Analysis EDB EDB EDB EDB 3/40/uf/HCL 3/40/uf/HCL Well No. Bottle/Pres. Bottle/Pres. 3/40/uf/HCL Bottle/Pres. Bottle/Pres. Temp 15.5 C SC--685 DO 0.86 mg/L pH 7.57 ORP 137.8 mv Turb- 1.8 NTU sc- <u>207</u> pH <u>8.37</u> mg/L Temp**16.4** C SC-<u>36.27</u> DO <u>5.87</u> mg/L ORP 138.7mv and Temp 15. C Well No. Well No. 7.66 Mul- 1 Hd Site Scaple Date Time SWL' TD' MW-2 SWM-1241710:30 25.24'77.75' When we disconnected thetabing to sources ed MW-75 SWM- 12/4/17 14 255 28.58 39.75' MW-1 SWM-12/4/17 72 35-25 22.60 57.4' MW-1055WM- 12/4/17/13:3023.61' 35.5' some ambient dust 4 odors from tratfice industry Wa Her 11:35 -21L1 1712. -21121 -212 201 00) 103 101 P

Cat Liter Vol- 15.5 Gat Li Lass Names-RL, CD-WK, RW Odor- NON<sup>2</sup> Vol- ZY Guil Less Color-light grey them. fin t 33 Names-RL, CD' WC, RVJ OPAT-LP.N D.6 2" Grundfos Pump Color- NEW Purge and Sample NON Remarks Odor-Yes Cycles ~ 128 2" Grundfos Pump Pump Set @ Mil Screen 2" Grundfos Pump 2" Grundfos Pump Purge and Sample **Q** Gal Purge and Sample Color- N.O. Purge and Sample Names-WC,RW Pump Set @ Mi d- Screen Remarks Pump Set @ . Mid - SCREEN Remarks 四日 こうろう うしー Remarks Same Purge and S cy iles a 2" Grunds Pump Set @ Mid - Screed Odor-Vol-Analysis Analysis EDB Analysis Analysis Cycles~129 EDB EDB EDB 3/40/uf/HCL 3/40/uf/HCL Bottle/Pres. 3/40/uf/HCL 3/40/uf/HCL Bottle/Pres. Bottle/Pres. Bottle/Pres. DO 0, 09 mg/L ORP 137,6 mv Turb- 3.7 NTU Temp 14.5 C SC- <u>3058</u> DO 7173 mg/L pH 7.22 NTU PH SON Mg/L 1/gm 12.0 00 01 Hq Turb- 61,2 NTU NTU Temp16.30 SC-214 ORP 114.2 mv Temp C ORP ZIG S MV Turb- 3.9 NTI VUI Temp 15.0c Well No. 1-mw Well No. Came sc-383 Well No. Well No. SC-Turb-ORP MW-5 SWM-12/4/17 18:00 25.84 57.45 Site Scapple Date TT me SWL'TD' MW-7 SWM-12/4/17/16:410 28:79'54.7' MW-855WM-1245/17 09:40 27.16 38.3 Walter Same MWBS SWM - 12/5/17 10:30 -2121 Dup. 1712--2121 106 Lo] 104

Helever, mt runthry 2" Cycles ~ 126 2" Grundfos Pump Pump Set @ miel Screen 25616, be then Sati Vol- 40. Color- No. C /0.15 sampled after pump was decourd. Nemis-inc, RW Pres. Analysis Every; Labs organic FHCL EDB free DI worker poured straight from plass liter built into glass vials SS Names-RL,CD WC, RW Analysis Everyy Labs agavic EDB free DI water from Odor- NONE Vol- 28 Gathi Color- NONE 2" Grundfos Pump NUN REMULTES Purge and Sample Purge and Sample Color- NO.P. Remarks Pump Set @ mid - Surea Remarks Remarks Color-Analysis cycles 2 123 Analysis EDB EDB 3/40/uf/HCL 3/40/uf/HCI. 3/40/uf/HCL 3/40/uf/HCL Bottle/Pres. Bottle/Pres. Bottle/Pres. Bottle/Pres. pH 7.15 ORP 21.9 mv Turb- 2.3 NTU Temp 12,3C SC- 2470 DO 3,64 mg/L NIU mg/L ORP 175.9 mv Turb- 2.7 NTI Temp 15.3C SC- 1417 Well No. - S MW-65 DO 0.10 RINSA K Well No. Blevk Temp SC-Site Codet Date Time SWL TD' MW-3 SWM-12/5/17 11:30 18.81 59.65 MW-655WM-1215/17-132610-26.19' 32.9' 110 It well exceeds "3' draudown even at 0.15 LPM Nei Her SWM- 12/5/17 12:00 Rinsak SWM- IzISIT 13:00 52:21 Blank 1712-Blank 1712-1712-1712-108 1001 Ξ FC HA

Odor- NONE Vol- 30.5 Gall, tas E Color- NONE Names RL, CD-WC, RW 2" Grundfos Pump Purge and Sample Remarks cycles ~ 125 2" Grundfo Analysis EDB Well No. Bottle/Pres. MW-5S 9/40/uf/HCL S, MS, MSD Temp 16.4C SC- 3452 DO 4.06 mg/L pH 7.30 ORP [26.9 mv Turb- 6.7 NTU and Site Code# Date Time Sinl' TD' MW-5SS WM- IzISIIT 14 250 25.62' 39.25 Weather - was nostly clean , calmand No precipional air temps from 28°F to UPOF on 12/5/17 Also shipped back a trip blank will shipmint of samples to lab Shipped all samples to Pace Lab in MN. overnight toranalysis Watter -2110 'SW'S 10



December 15, 2017

Mike Murray HDR Engineering, Inc. 412 E. Parkcenter Blvd. Suite 200 Boise, ID 83706

RE: Project: Simplot Warden WA Pace Project No.: 10413546

Dear Mike Murray:

Enclosed are the analytical results for sample(s) received by the laboratory on December 07, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

ENNI GROSS

Jennifer Gross jennifer.gross@pacelabs.com (206)957-2426 Project Manager

Enclosures





### CERTIFICATIONS

Project: Simplot Warden WA Pace Project No.: 10413546

### **Minnesota Certification IDs**

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414-2485 A2LA Certification #: 2926.01 Alabama Certification #: 40770 Alaska Contaminated Sites Certification #: 17-009 Alaska DW Certification #: MN00064 Arizona Certification #: AZ0014 Arkansas Certification #: 88-0680 California Certification #: 2929 CNMI Saipan Certification #:MP0003 Colorado Certification #: MN00064 Connecticut Certification #: PH-0256 EPA Region 8+Wyoming DW Certification #: via MN 027-053-137 Florida Certification #: E87605 Georgia Certification #: 959 Guam EPA Certification #: MN00064 Hawaii Certification #: MN00064 Idaho Certification #: MN00064 Illinois Certification #: 200011 Indiana Certification #: C-MN-01 Iowa Certification #: 368 Kansas Certification #: E-10167 Kentucky DW Certification #: 90062 Kentucky WW Certification #: 90062 Louisiana DEQ Certification #: 03086 Louisiana DW Certification #: MN00064 Maine Certification #: MN00064 Maryland Certification #: 322 Massachusetts Certification #: M-MN064

Michigan Certification #: 9909 Minnesota Certification #: 027-053-137 Mississippi Certification #: MN00064 Montana Certification #: CERT0092 Nebraska Certification #: NE-OS-18-06 Nevada Certification #: MN00064 New Hampshire Certification #: 2081 New Jersey Certification #: MN002 New York Certification #: 11647 North Carolina DW Certification #: 27700 North Carolina WW Certification #: 530 North Dakota Certification #: R-036 Ohio DW Certification #: 41244 Ohio VAP Certification #: CL101 Oklahoma Certification #: 9507 Oregon NwTPH Certification #: MN300001 Oregon Secondary Certification #: MN200001 Pennsylvania Certification #: 68-00563 Puerto Rico Certification #: MN00064 South Carolina Certification #:74003001 Tennessee Certification #: TN02818 Texas Certification #: T104704192 Utah Certification #: MN00064 Virginia Certification #: 460163 Washington Certification #: C486 West Virginia DW Certification #: 9952 C West Virginia DEP Certification #: 382 Wisconsin Certification #: 999407970



### SAMPLE SUMMARY

Project:Simplot Warden WAPace Project No.:10413546

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10413546001	SWM-0712-100	Water	12/04/17 10:30	12/07/17 10:30
10413546002	SWM-0712-101	Water	12/04/17 11:35	12/07/17 10:30
10413546003	SWM-0712-102	Water	12/04/17 13:30	12/07/17 10:30
10413546004	SWM-0712-103	Water	12/04/17 14:55	12/07/17 10:30
10413546005	SWM-0712-104	Water	12/04/17 16:40	12/07/17 10:30
10413546006	SWM-0712-105	Water	12/04/17 18:00	12/07/17 10:30
10413546007	SWM-0712-106	Water	12/05/17 09:40	12/07/17 10:30
10413546008	SWM-0712-107	Water	12/05/17 10:30	12/07/17 10:30
10413546009	SWM-0712-108	Water	12/05/17 11:30	12/07/17 10:30
10413546010	SWM-0712-109	Water	12/05/17 12:00	12/07/17 10:30
10413546011	SWM-0712-110	Water	12/05/17 12:35	12/07/17 10:30
10413546012	SWM-0712-111	Water	12/05/17 13:10	12/07/17 10:30
10413546013	SWM-0712-112	Water	12/05/17 14:50	12/07/17 10:30
10413546014	HCL TRIP BLANKS	Water	12/04/17 00:00	12/07/17 10:30



### SAMPLE ANALYTE COUNT

Project:Simplot Warden WAPace Project No.:10413546

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10413546001	SWM-0712-100	EPA 8011	XV1	2	PASI-M
10413546002	SWM-0712-101	EPA 8011	XV1	2	PASI-M
10413546003	SWM-0712-102	EPA 8011	XV1	2	PASI-M
10413546004	SWM-0712-103	EPA 8011	XV1	2	PASI-M
10413546005	SWM-0712-104	EPA 8011	XV1	2	PASI-M
10413546006	SWM-0712-105	EPA 8011	XV1	2	PASI-M
10413546007	SWM-0712-106	EPA 8011	XV1	2	PASI-M
10413546008	SWM-0712-107	EPA 8011	XV1	2	PASI-M
10413546009	SWM-0712-108	EPA 8011	XV1	2	PASI-M
10413546010	SWM-0712-109	EPA 8011	XV1	2	PASI-M
10413546011	SWM-0712-110	EPA 8011	XV1	2	PASI-M
10413546012	SWM-0712-111	EPA 8011	XV1	2	PASI-M
10413546013	SWM-0712-112	EPA 8011	XV1	2	PASI-M
10413546014	HCL TRIP BLANKS	EPA 8011	XV1	2	PASI-M



### **PROJECT NARRATIVE**

Project: Simplot Warden WA

Pace Project No.: 10413546

# Method:EPA 8011Description:8011 GCS EDB and DBCPClient:HDR Engineering, Inc.Date:December 15, 2017

### General Information:

14 samples were analyzed for EPA 8011. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Sample Preparation:

The samples were prepared in accordance with EPA 8011 with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Surrogates:

All surrogates were within QC limits with any exceptions noted below.

### QC Batch: 513461

S3: Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated sample.

- SWM-0712-102 (Lab ID: 10413546003)
- 4-Bromofluorobenzene (S)
- SWM-0712-104 (Lab ID: 10413546005)
  - 4-Bromofluorobenzene (S)
- SWM-0712-105 (Lab ID: 10413546006)
  - 4-Bromofluorobenzene (S)

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- MS (Lab ID: 2791904)
  - 4-Bromofluorobenzene (S)
- MSD (Lab ID: 2791905)
- 4-Bromofluorobenzene (S)
- SWM-0712-112 (Lab ID: 10413546013)
  - 4-Bromofluorobenzene (S)

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.



### **PROJECT NARRATIVE**

Project: Simplot Warden WA

Pace Project No.: 10413546

### QC Batch: 513461

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10413546013

M6: Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

- MS (Lab ID: 2791904)
  - 1,2-Dibromoethane (EDB)
- MSD (Lab ID: 2791905)
  - 1,2-Dibromoethane (EDB)

R1: RPD value was outside control limits.

- MSD (Lab ID: 2791905)
  - 1,2-Dibromoethane (EDB)

### Additional Comments:

Analyte Comments:

QC Batch: 513461

```
D4: Sample was diluted due to the presence of high levels of target analytes.

• MS (Lab ID: 2791904)

• 4-Bromofluorobenzene (S)

• MSD (Lab ID: 2791905)

• 4-Bromofluorobenzene (S)
```

- SWM-0712-112 (Lab ID: 10413546013)
  - 4-Bromofluorobenzene (S)

This data package has been reviewed for quality and completeness and is approved for release.



### ANALYTICAL RESULTS

Project: Simplot Warden WA

Pace Project No.: 10413546

Sample: SWM-0712-100	MW-2	Lab ID:	10413546001	Collected: 12/04/1	7 10:30	Received: 12	2/07/17 10:30	Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP		Analytical	Method: EPA 80	011 Preparation Meth	nod: EPA	A 8011			
1,2-Dibromoethane (EDB) <i>Surrogates</i>		N	D ug/L	0.0098	1	12/13/17 14:49	12/14/17 05:20	6 106-93-4	
4-Bromofluorobenzene (S)		8	5 %.	70-125	1	12/13/17 14:49	12/14/17 05:20	6 460-00-4	
Sample: SWM-0712-101		Lab ID:	10413546002	Collected: 12/04/1	7 11:35	Received: 12	2/07/17 10:30	Matrix: Water	
Parameters	MW-1	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP		Analytical	Method: EPA 80	011 Preparation Meth	nod: EPA	A 8011			
1,2-Dibromoethane (EDB)		N	D ug/L	0.0098	1	12/13/17 14:49	12/14/17 05:53	2 106-93-4	
<i>Surrogates</i> 4-Bromofluorobenzene (S)		7	3 %.	70-125	1	12/13/17 14:49	12/14/17 05:52	2 460-00-4	
Sample: SWM-0712-102			10413546003	Collected: 12/04/1	7 13:30	Received: 12	2/07/17 10:30	Matrix: Water	
Parameters	MW-1	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP		Analytical	Method: EPA 80	011 Preparation Meth	nod: EPA	A 8011			
1,2-Dibromoethane (EDB) <i>Surrogates</i>		NI	D ug/L	0.0098	1	12/13/17 14:49	12/14/17 06:18	3 106-93-4	
4-Bromofluorobenzene (S)		12	8 %.	70-125	1	12/13/17 14:49	12/14/17 06:18	3 460-00-4	S3
Sample: SWM-0712-103		Lab ID:	10413546004	Collected: 12/04/1	7 14:55	Received: 12	2/07/17 10:30	Matrix: Water	
Parameters	MW-79	<sup>S</sup> Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP		Analytical	Method: EPA 80	011 Preparation Meth	nod: EPA	A 8011			
1,2-Dibromoethane (EDB)		N	D ug/L	0.0098	1	12/13/17 14:49	12/14/17 06:44	4 106-93-4	
<i>Surrogates</i> 4-Bromofluorobenzene (S)		9	6 %.	70-125	1	12/13/17 14:49	12/14/17 06:44	4 460-00-4	
Sample: SWM-0712-104		Lab ID:	10413546005	Collected: 12/04/1	7 16:40	Received: 12	2/07/17 10:30	Matrix: Water	
Parameters	MW-7	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	·	Analytical	– – Method: EPA 80	011 Preparation Meth	nod: EPA	A 8011			
1,2-Dibromoethane (EDB)		N	D ug/L	0.0096	1	12/13/17 14:49	12/14/17 07:10	0 106-93-4	
<i>Surrogates</i> 4-Bromofluorobenzene (S)		15	2 %.	70-125	1	12/13/17 14:49	12/14/17 07:10	0 460-00-4	S3



### ANALYTICAL RESULTS

Project: Simplot Warden WA

Pace Project No.: 10413546

	40								
Sample: SWM-0712-105		Lab ID:	10413546006	Collected: 12/04/	/17 18:00	Received: 12	2/07/17 10:30	Matrix: Water	
Parameters	MW-5	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP		Analytical	Method: EPA 80	011 Preparation Me	thod: EPA	A 8011			
1,2-Dibromoethane (EDB) <i>Surrogates</i>		NI	D ug/L	0.0098	1	12/13/17 14:49	12/14/17 07:3	5 106-93-4	
4-Bromofluorobenzene (S)		14	7 %.	70-125	1	12/13/17 14:49	12/14/17 07:3	5 460-00-4	S3
Sample: SWM-0712-106	MW-8S		10413546007	Collected: 12/05/	/17 09:40	Received: 12	2/07/17 10:30	Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP		Analytical	Method: EPA 80	011 Preparation Me	thod: EPA	A 8011			
1,2-Dibromoethane (EDB)		N	D ug/L	0.0098	1	12/13/17 14:49	12/14/17 08:0	1 106-93-4	
<i>Surrogates</i> 4-Bromofluorobenzene (S)		9	7 %.	70-125	1	12/13/17 14:49	12/14/17 08:0	1 460-00-4	
Sample: SWM-0712-107		Lab ID:	10413546008	Collected: 12/05/	/17 10:30	Received: 12	2/07/17 10:30	Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP		Analytical	Method: EPA 80	011 Preparation Me	thod: EPA	A 8011			
1,2-Dibromoethane (EDB) <i>Surrogat</i> es	8S D	upl NI	D ug/L	0.0098	1	12/13/17 14:49	12/14/17 08:2	7 106-93-4	
4-Bromofluorobenzene (S)		9	9 %.	70-125	1	12/13/17 14:49	12/14/17 08:2	7 460-00-4	
Sample: SWM-0712-108	M/4/ 0	Lab ID:	10413546009	Collected: 12/05/	/17 11:30	Received: 12	2/07/17 10:30	Matrix: Water	
Parameters	MW-3	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP		Analytical	Method: EPA 80	011 Preparation Me	thod: EPA	A 8011			
1,2-Dibromoethane (EDB)		N	D ug/L	0.0097	1	12/13/17 14:49	12/14/17 08:5	3 106-93-4	
<i>Surrogates</i> 4-Bromofluorobenzene (S)		8	9 %.	70-125	1	12/13/17 14:49	12/14/17 08:5	3 460-00-4	
Sample: SWM-0712-109			10413546010	Collected: 12/05/	/17 12:00	Received: 12	2/07/17 10:30	Matrix: Water	
Parameters	DI BLar	nk Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP		Analytical	Method: EPA 80	011 Preparation Me	thod: EPA	A 8011			_
1,2-Dibromoethane (EDB)		N	D ug/L	0.0097	1	12/13/17 14:49	12/14/17 10:1	1 106-93-4	
<i>Surrogates</i> 4-Bromofluorobenzene (S)		8	6 %.	70-125	1	12/13/17 14:49	12/14/17 10:1	1 460-00-4	



### ANALYTICAL RESULTS

Project: Simplot Warden WA

Pace Project No.: 10413546

Sample: SWM-0712-110		Lab ID: 10	413546011	Collected: 12/05/	17 12:35	Received: 12	2/07/17 10:30 N	latrix: Water	
Parameters	MW-6	S Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP		Analytical Me	thod: EPA 80	011 Preparation Met	hod: EPA	A 8011			
1,2-Dibromoethane (EDB) <b>Surrogates</b>		0.35	ug/L	0.0097	1	12/13/17 14:49	12/14/17 10:36	106-93-4	
4-Bromofluorobenzene (S)		92	%.	70-125	1	12/13/17 14:49	12/14/17 10:36	460-00-4	
Sample: SWM-0712-111	Rinsat	e Lab ID: 10	413546012	Collected: 12/05/	17 13:10	Received: 12	2/07/17 10:30 N	latrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP		Analytical Me	thod: EPA 80	011 Preparation Met	hod: EP/	A 8011			
1,2-Dibromoethane (EDB)		ND	ug/L	0.0099	1	12/13/17 14:49	12/14/17 11:02	106-93-4	
<i>Surrogates</i> 4-Bromofluorobenzene (S)		89	%.	70-125	1	12/13/17 14:49	12/14/17 11:02	460-00-4	
Sample: SWM-0712-112		Lab ID: 10	413546013	Collected: 12/05/	17 14:50	Received: 12	2/07/17 10:30 N	latrix: Water	
Parameters	MW-5S	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP		Analytical Me	thod: EPA 80	011 Preparation Met	hod: EP/	A 8011			
1,2-Dibromoethane (EDB) <b>Surrogates</b>		151	ug/L	9.7	1000	12/13/17 14:49	12/14/17 14:16	106-93-4	M6,R1
4-Bromofluorobenzene (S)		0	%.	70-125	1000	12/13/17 14:49	12/14/17 14:16	460-00-4	D4,S4
Sample: HCL TRIP BLANK	S	Lab ID: 10	413546014	Collected: 12/04/	17 00:00	Received: 12	2/07/17 10:30 N	latrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP		Analytical Me	thod: EPA 80	)11 Preparation Met	hod: EP/	A 8011	-	_	_
1,2-Dibromoethane (EDB) <b>Surrogates</b>		ND	ug/L	0.0096	1	12/13/17 14:49	12/14/17 11:28	106-93-4	
4-Bromofluorobenzene (S)		95	%.	70-125	1	12/13/17 14:49	12/14/17 11:28	460-00-4	



### **QUALITY CONTROL DATA**

Project:		Warden WA											
Pace Project No.:	104135	46											
QC Batch:	51346	1		Analysi	s Method:	E	PA 8011						
QC Batch Method:	EPA 8	011		Analysi	s Descript	ion: G	CS 8011 ED	B DBCP					
Associated Lab Sam	nples:		, 10413546002, , 10413546009,										
METHOD BLANK:	279190	2		М	atrix: Wa	ter							
Associated Lab Sam	nples:		, 10413546002, , 10413546009,		10, 1041	,		,	,	,			
Param	neter		Units	Result		Limit	Analyz	ed	Qualifiers				
1,2-Dibromoethane	(EDB)		ug/L		ND	0.010	12/14/17 (	02:00					
4-Bromofluorobenze	ene (S)		%.		104	70-125	12/14/17 (	02.00					
	• • •				101	10 120	,,	2.00					
		AMPLE: 27											
LABORATORY CON	NTROL S	AMPLE: 27	91903	Spike	LCS		LCS	% Rec					
LABORATORY CON		AMPLE: 27		Spike Conc.		;				ualifiers			
	neter	AMPLE: 27	91903	•	LCS	;	LCS	% Rec Limits		ualifiers			
Param	neter (EDB)	AMPLE: 27	91903 Units	Conc.	LCS	; it	LCS % Rec	% Rec Limits 60	Q	ualifiers			
Param 1,2-Dibromoethane	neter (EDB) ene (S)		91903 Units ug/L %.	Conc.	LCS	; it	LCS % Rec 99	% Rec Limits 60	-140 Q	ualifiers			
Param 1,2-Dibromoethane 4-Bromofluorobenze	neter (EDB) ene (S)		91903 Units ug/L %.	Conc.	LCS	6 lt 0.11	LCS % Rec 99	% Rec Limits 60	-140 Q	ualifiers			
Param 1,2-Dibromoethane 4-Bromofluorobenze	neter (EDB) ene (S)	PIKE DUPLIC	91903 Units ug/L %.	Conc. .11	LCS Resu	6 lt 0.11	LCS % Rec 99	% Rec Limits 60	-140 Q	ualifiers % Rec		Мах	
Param 1,2-Dibromoethane 4-Bromofluorobenze	neter (EDB) ene (S)	PIKE DUPLIC	91903 Units ug/L %. ATE: 279190	Conc. .11	LCS Resu MSD	0.11 2791905	LCS % Rec 99 105	% Rec Limits 60 70	Q -140 -125		RPD		Qual
Param 1,2-Dibromoethane 4-Bromofluorobenze MATRIX SPIKE & M	neter (EDB) ene (S) IATRIX S	PIKE DUPLIC	91903 Units ug/L %. ATE: 279190	Conc. .11 .11 MS Spike	LCS Resu MSD Spike	0.11 2791905 MS	LCS % Rec 99 105 MSD	% Rec Limits 60 70	Q -140 -125 MSD	% Rec Limits		RPD	Qual M6,R1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



### QUALIFIERS

### Project: Simplot Warden WA

Pace Project No.: 10413546

### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

### S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

**RPD** - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

### ANALYTE QUALIFIERS

- D4 Sample was diluted due to the presence of high levels of target analytes.
- M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.
- R1 RPD value was outside control limits.
- S3 Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated sample.
- S4 Surrogate recovery not evaluated against control limits due to sample dilution.



### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:	Simplot Warden WA
Pace Project No.:	10413546

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10413546001	SWM-0712-100	EPA 8011	513461	 EPA 8011	513707
10413546002	SWM-0712-101	EPA 8011	513461	EPA 8011	513707
10413546003	SWM-0712-102	EPA 8011	513461	EPA 8011	513707
10413546004	SWM-0712-103	EPA 8011	513461	EPA 8011	513707
10413546005	SWM-0712-104	EPA 8011	513461	EPA 8011	513707
10413546006	SWM-0712-105	EPA 8011	513461	EPA 8011	513707
10413546007	SWM-0712-106	EPA 8011	513461	EPA 8011	513707
10413546008	SWM-0712-107	EPA 8011	513461	EPA 8011	513707
10413546009	SWM-0712-108	EPA 8011	513461	EPA 8011	513707
10413546010	SWM-0712-109	EPA 8011	513461	EPA 8011	513707
10413546011	SWM-0712-110	EPA 8011	513461	EPA 8011	513707
10413546012	SWM-0712-111	EPA 8011	513461	EPA 8011	513707
10413546013	SWM-0712-112	EPA 8011	513461	EPA 8011	513707
10413546014	HCL TRIP BLANKS	EPA 8011	513461	EPA 8011	513707

9413246	2 V	2134768		GROUND WATER   DRINKING WATER	RA [ OTHER					(N	/λ) əu	Chlorit	leubise	LL Pace Project No./ Lab I.D.	2.00	500	004	00.5			202			SAMPLE CONDITIONS	4.6 4 4 4				тр in °((Y/N) seived c ed Cool ed Cool (Y/N)	କୁ ଅ ପ କୁ ଅ ଅ ଅ L-Q-020rev.07, 15-May-2007	•
<b>:ument</b> accurately.			REGULATORY AGENCY	T NPDES KGR	LUST T RCRA	Site Location	STATE:	Requested Analysis Filtered (Y/N)				2 7 7 7 8 7 8 7	<u>م</u> رد مریح											DATE	9Eal tipyu				اووطح	12/66/17	
CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.	Section C Invoice Information:	Attention: Zelma Miller	Name: HDR ENGINERING	2 E Park		Pace Project Manager:	Pace Profile #.		Preservatives		8 t/ 1 15	bevi	► C C C ► U S C ► U S C VeftPSUO VeftPSUO 100 100 100 100 100 100 100 10											ACCEPTED BY	14:30 Mar Lall.				Walter Gave, Ray W	E of SAMPLER: A b the frame while some 1.5% per month for any invoices not paid within 30 days.	
CHAIN-OF-CU The Chain-of-Custody is a		Murvay				WA	· .		COLLECTED	COMPOSITE COMPOSITE		A 9M91	E SAMPLE -	1030		1330	1455	1640	13 MQ40	1030	1130	1200	-	Y / AFFILIATION DATE	Hydrometrys 12/6/17		-	SAMPLER NAME AND SIGNATURE	PRINT Name of SAMPLER:	SIGNATURE of SAMPLER: s and agreeing to late charges of 1.5% per month to	
	Section B Required Project Information:		SWO. COPY TO:		UCACO Purchase Order No.:	7100 Project Name Simplet Warden	Project Number.		des Sap (fiel of	Drinking Water DW water WT Waster WT Waster WW Product P Product P	500 Por Por Por Por Por Por Por Por Por Por	CODE ₽₽₽ ₽		100 WT G 12 4 17		102	20 20		-10(- 12/5/1		90	60		FINORIS	nght / Nalte Frame		2		CHIGINAL	SIGNATURE Signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges	
Pace Analytical	Section A Required Client Information:	$\sim$	Parko	Beise, ID 83706	Prove Kurray Charley Charles	(208) 387-700 387-7100			Section D Required Client Information <u>M</u>	Darak Wate Wate		(A-Z, 0-9 / ,-) Air Sample IDs MUST BE UNIQUE Tissue Other	# MƏTI	1 SWM-0712-10	2 / / - 10	3 / - 16					60/-	10 - (09	4	ADDITIONAL COMMENTS	t	+ 2 1 1	1440 1052 0675	Fage	13 of		

Pace Analytical \*

# CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

www.pacetaus.com Section A Required Client Information: Company:	Section B Required Project Information: Report To:	Section C Invoice Information: Attention:	Page: 2 of 2
Address:	Copy To:	Company Name:	740T7
< same a	- 1 Jose 5	Address:	INTEGULATORY AGENCY
ö	Purchase Order No.:	Pace Quote Reference:	L RCRA
	Project Name:	Pace Project Manager:	Site Location
Requested Due Date/TAT:	Project Number:	Pace Profile #	STATE
		Requested	Requested Analysis Filtered (Y/N)
Section D Matrix Required Client Information MATRIX	o left) ODE Second	Preservatives	
Sample IDs MUST BE UNIQUE Sample IDs MUST BE UNIQUE Sample IDs MUST BE UNIQUE Tissue	로 TEMP AT COLLECTION E TYPE (G=GRAB C=CC Contection X CODE (see value of the case of the	2991/14ТИО bev19 	I Chlorine (Y/V)
(MƏTI	MATRI AMPLI AMPLI DATE DATE DATE DATE	Officer Methan NaOH HCI HVO <sup>3</sup> H <sup>2</sup> SO <sup>4</sup> H <sup>3</sup> SO <sup>4</sup> H <sup>3</sup> SO <sup>4</sup>	
11-2120-MWS 1	2 (x3) witc-lizk/1 14150	恔	La La de na di a
2 HILTVID-D	111		C Sunnaharing
3 also includes	dý4		
4 Davk			
0			
9			
6			
10			
ADDITIONAL COMMENTS			
Same as Days	ekics 1		SAMPLE CONDITIONS
		M. P. Pace	1. 1. N 2.4 02 01 21/2/24
Paţ	- L-C		
Ō 9e 14	ORIGINAL PRINT NAME AND SIGNATURE	Matter Prive Ray Inland	s Intact
	SIGNATURE of SAMPLER:	DATE Signed (MM/DD/YY):	Temples Cual Caseled Cual Caseled Cual Court Cou
important Note: by signing this form you are accept	important Note: by signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any involces not paid within 30 days.	for any involces not paid within 30 days.	F-ALL-Q-020rev.07, 15-May-2007

	Pace Analytical*	Sample Cond	ocument	on Receip No.:	ot Form		ment Revised: Page 1 of 2 Issuing Author	ity:	
	(	F-N	IN-L-213	-rev.21		Pace	Minnesota Qua	lity Office	
Sample Co Upon Re Courier:				Project i ient	#: 			57(\$ 	
Tracking N		0675							
Custody Se	eal on Cooler/Box Present?	No S	ieals Inta	ict? 🖵	Yes 🗌 No	Option	al: Proj. Due	Date: Pr	oj. Name:
Packing M	laterial: 🖉 Bubble Wrap 🔤 Bubbl	e Bags 🗌 None	e 🗋 C	)ther:			Temp Blan	ik? 🗌 Yes	
Thermome Used: Cooler Ten	G87A9155100842	Type mp Corrected (°C):	of ice:	_ <b>⊉</b> ₩et 2		None			orocess has begun
	d be above freezing to 6°C Correcti		0.1		and Initials	of Person Ex	amining Conter	nts: <u>ME</u>	F 12/20/17
Did samples	lated Soil ( N/A, water sample) originate in a quarantine zone within the OK, OR, SC, TN, TX or VA (check maps)? If Yes to either question, fill ou		_ ∐Y	es 🗌	]No in	cluding Hawai	ginate from a fore i and Puerto Rico SCUR/COC pape	)? [	ternationally, ]Yes □No
							COMMENTS		
Chain of Cus	stody Present?		ΠNο		1.				· .
Chain of Cus	stody Filled Out?	eres -			2.				
Chain of Cus	stody Relinquished?	Yes	 □No		3.				
Sampler Nai	me and/or Signature on COC?			 N/A	4.				
Samples Arr	íved within Hold Time?		 No		5.				
Short Hold	Time Analysis (<72 hr)?	Yes			6.				
Rush Turn A	Around Time Requested?	 []Yes			7.				
Sufficient Vo	olume?	<b>P</b> res	No		8.				
Correct Con	tainers Used?	- Tes	No		9.				
-Pace Cor	ntainers Used?	Yes	No				· ·		
Containers I	Intact?	<b>Pr</b> es	No		10.		· · ·		
Filtered Volu	ume Received for Dissolved Tests?	Yes	No	<b>₽</b> N/A	11. Note i	f sediment is	visible in the dis	solved contai	ner
Sample Labe	els Match COC?	, Laves	⊡No		12.				
-Includes	Date/Time/ID/Analysis Matrix: 🥂 🦊	it					1		
checked?	rs needing acid/base preservation have be rs needing preservation are found to be ir	Yes	No		13. Sample #	HNO3	∐H₂SO₄	□№ОН	Positive for Res. Chlorine? Y N
(HNO <sub>3</sub> , H <sub>2</sub> SC	with EPA recommendation? 2, <del>22</del> nH, NaOH >9 Sulfide, NaOH>12 Cyar VOA, Coliform, TOC/DOC Oil and Grease,	nide) 🗌 Yes	No		Initial when		Lot # of a	added	
DRO/8015	water) and Dioxin.	<b>V</b> Yes	<u>No</u>	□n/a	completed:		preserva	tive:	·
	in VOA Vials ( >6mm)?	Yes	No	⊡N/A	14.				
Trip Blank Pl		Yes		□n/a	15.				
	iustody Seals Present?	7 ZYes	□No	□n/a					
	ank Lot # (if purchased): <u>「うみてう</u>	<u> </u>							
	CLIENT NOTIFICATION/RESOLUTION				Det IT		ield Data Requi		sNo
Person Cont					Date/Time	:			
Comments/							· · · · · · · · · · · · · · · · · · ·		
	; 								
	Project Manager Deview	- (	-			-			
Note: Whene	Project Manager Review: ever there is a discrepancy affecting North Ca of preservative, out of temp, incorrect contain		2055	copy of thi			L2/07/17 rth Carolina DEH		n Office (i.e. out c