



Groundwater - Well Sampling Data Form

Job Information	
Date: 11/12/13	Time: arrive 0943 depart 1056
Project Name: Symphony	Project Number: 0224198
Site Location: Liddell	Sampler: Sean Penza
Well ID: LC.mw09	Weather: Fine

Equipment	
Water quality equipment description: 90PLMV 15443	Interface probe number: Geotech Inertax Meter 30m 3978
Purging equipment: (please circle)	Bailer type: Plastic Teflon
	Pump type: Peristaltic Submersible Micro-purge Amazon Other:

Well Gauging and Purge Volume Calculations									
Casing Diameter	25mm	50mm	100mm	125mm	150mm	200mm	250mm	300mm	Volume of water in well / V = Pr x r x h V = volume in litres P = 3.14159 r = radius in cm h = height of water column in cm
Conversion Factor (volume in factor L/m)	0.49	1.96	7.85	12.3	17.7	31.4	49.1	70.7	
Total Well Depth	(-) Water level	(=) Water Column							
10.874 m	(-) 5.822 m	(=) _____ m							
Water Column		(x) Conversion Factor	(=) Litres per 1 Well Volume						
_____ m		(x) _____	(=) _____ L						
Depth to product: _____ m	Product Thickness: _____ m	Verified with Bailer:	<input type="checkbox"/> Y <input type="checkbox"/> N						

Water Quality Parameters								
Beginning purge time: 0952			Ending purge time: 1017				Pump Intake Depth (mbtoch): 9.0	
Litres	Time	PH	Temp °C	Cond mS/cm	DO mg/L	Redox mV	Drawdown <10cm	Comments
1.0	0957	6.82	25.1	12.41	1.74	31	5.91	Clear, no sheen, no odour
2.0	1002	6.81	23.8	12.10	0.98	22	5.96	As above
3.0	1007	6.79	23.8	12.22	0.64	16	6.00	As above
4.0	1012	6.81	23.9	12.27	0.66	15	6.04	As above
5.0	1017	6.82	23.9	12.33	0.65	12	6.08	As above
Sampled at 1022 (allow 5 mins for recharge)								

*pH, temp, cond readings not necessary if well is purged dry

Example Comments: clear / slightly cloudy / turbid / very turbid / no odour / slight odour / odour / strong odour / drawdown depth

5.0L	Total Well Volume Actual amount of water prior to sampling	Sample time: 1022	Containers used: 2 amber, 3 vials, 1 vial for metals
200	Flow rate mL/minute	Did field parameters stabilise? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	Was the well dry purged? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N

Field QC Checks			
Was pre-cleaned sampling equipment used for these samples?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	
Was pre-cleaning sampling equipment properly protected from contamination?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	
Was documentation of equipment conducted?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	NA
Were air bubbles present in vials at time of collection?	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	NA
Was sample for metals field filtered prior to preservations?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	NA
Duplicate sample collected?	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	Duplicate sample ID _____
Rinsate blank collected?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	Rinsate blank ID R01-111213-SP

Final Water Level: 6.102



Groundwater - Well Sampling Data Form

Job Information

Date: 26/11/13	Time: arrive 12:40pm depart 1:55pm.
Project Name: SYMPHONY.	Project Number: 224198
Site Location: HOUELL	Sampler: TH
Well ID: LM-MW01	Weather: cloudy

Equipment

Water quality equipment description: YSI-11C100752	Interface probe number: Geotech IP. 4261.30m
Purging equipment: (please circle)	Bailer type: Plastic Teflon $\pi D = 1.3$
Pump type: Peristaltic	Submersible Micro-purge Amazon Other:

Well Gauging and Purge Volume Calculations

Casing Diameter	25mm	50mm	100mm	125mm	150mm	200mm	250mm	300mm	Volume of water in well / V $= Pr \times r \times h$ V = volume in litres $P = 3.14159$ $r = \text{radius in cm}$ $h = \text{height of water column in cm}$
Conversion Factor (volume in factor L/m)	0.49	1.96	7.85	12.3	17.7	31.4	49.1	70.7	
Total Well Depth	(-) Water level		(=) Water Column						
9.057 m	4.230 m		4.827 m						
	Water Column		(x) Conversion Factor		(=) Litres per 1 Well Volume				
	4.827 m		1.96		7.46				
Depth to product: _____ m	Product Thickness: <input checked="" type="checkbox"/> m		Verified with Bailer: <input checked="" type="checkbox"/> <input type="checkbox"/>						

Water Quality Parameters

Beginning purge time: 13:02		Ending purge time:				Pump Intake Depth (mbtoc):		
Litres	Time	PH	Temp °C	Cond $\mu S/cm$	DO mg/L	Redox mV	Drawdown <10cm	Comments
1.0	13:05:45	6.64	21.4	18897	0.17	36.8	6.490	clear, no odour.
2.0	13:09:50	6.62	21.8	19299	---	10.3	6.595	clear, no odour.
3.0	13:14:40	6.62	21.6	19285	1.51	-6.7	6.725	clear, no odour.
4.0	13:19:17	6.61	21.7	20551	2.47	-22.4	6.795	clear, no odour.
4.5	13:22:10	6.61	21.5	19180	2.93	-26.6	6.845	clear, no odour.
5.0	13:24:00	6.61	21.5	19120	3.09	-30.0	6.882	" "

*pH, temp, cond readings not necessary if well is purged dry

Example Comments: clear / slightly cloudy / turbid / very turbid / no odour / slight odour / odour / strong odour / drawdown depth

Total Well Volume Actual amount of water prior to sampling	Sample time: 1:40pm	Containers used: 7
	Flow rate mL/minute	Did field parameters stabilise? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA

Field QC Checks

Was pre-cleaned sampling equipment used for these samples?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Was pre-cleaning sampling equipment properly protected from contamination?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Was documentation of equipment conducted?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Were air bubbles present in vials at time of collection?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Was sample for metals field filtered prior to preservations?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Duplicate sample collected?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Rinsate blank collected?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N

Duplicate sample ID: No
Rinsate blank ID: No

Groundwater - Well Sampling Data Form

Job Information

Date: 26/11/13	Time: arrive 2:10pm depart 3:35pm
Project Name: Symphony	Project Number: 224198
Site Location: LIDDELL - LM	Sampler: TH
Well ID: LM-MW02	Weather: FINE - WINDY

Equipment

Water quality equipment description: MSI-11 C100752 Interface probe number: Geotech IP ~~152~~ 30m 4261

Purging equipment: (please circle) Bailer type: Plastic Teflon P/D = 0.2
 Pump type: Peristaltic Submersible Micro-purge Amazon Other:

Well Gauging and Purge Volume Calculations

Casing Diameter	25mm	50mm	100mm	125mm	150mm	200mm	250mm	300mm	Volume of water in well / V = Pr x r x h V = volume in litres P = 3.14159 r = radius in cm h = height of water column in cm
Conversion Factor (volume in factor L/m)	0.49	1.96	7.85	12.3	17.7	31.4	49.1	70.7	

Total Well Depth ~~10.050~~ m (-) Water level 6.772 m (=) Water Column 3.293 m
 10.065 m Water Column 3.293 m (x) Conversion Factor 1.96 (=) 6.45 L

Depth to product: — m Product Thickness: — m Verified with Bailer: Y N

Water Quality Parameters

Beginning purge time: 14:30:35		Ending purge time: 14:55:10		Pump Intake Depth (mbtoc):				
Litres	Time	PH	Temp °C	Cond µS/cm	DO mg/L	Redox mV	Drawdown <10cm	Comments
1.0	14:33:30	6.68	21.5	12069	1.06	119.3	7.125	cloudy, no odour
2.0	14:38:00	6.65	21.3	12257	1.42	108.1	7.125	cloudy, no odour
3.0	14:43:34	6.64	21.7	12295	1.45	102.5	7.200	cloudy, no odour
4.0	14:49:40	6.64	21.8	13427	2.58	101.2	7.275	cloudy, no odour
4.5	14:53:41	6.64	21.7	12821	2.79	100.7	7.295	cloudy, no odour

*pH, temp, cond readings not necessary if well is purged dry

Example Comments: clear / slightly cloudy / turbid / very turbid / no odour / slight odour / odour / strong odour / drawdown depth

4.5 Total Well Volume Actual amount of water prior to sampling Sample time 3:10pm Containers used 14

Flow rate mL/minute Did field parameters stabilise? Y N NA Was the well dry purged? Y N

Field QC Checks

Was pre-cleaned sampling equipment used for these samples?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
Was pre-cleaning sampling equipment properly protected from contamination?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
Was documentation of equipment conducted?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N <input type="checkbox"/> NA
Were air bubbles present in vials at time of collection?	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N <input type="checkbox"/> NA
Was sample for metals field filtered prior to preservations?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N <input type="checkbox"/> NA except RINSATE
Duplicate sample collected?	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N Duplicate sample ID
Rinsate blank collected?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N Rinsate blank ID RINSATE-261113TH



Groundwater - Well Sampling Data Form

Job Information

Date: <u>27/11/13</u>	Time: arrive <u>9:40 AM</u> depart
Project Name: <u>Symphony</u>	Project Number: <u>224198</u>
Site Location: <u>LIDDELL - LN</u>	Sampler: <u>TH</u>
Well ID: <u>LN-MW01</u>	Weather: <u>HOT & CLEAR</u>

Equipment

Water quality equipment description: YSI-11K101262 Interface probe number: Ceatech IP 4261 3m

Purging equipment: (please circle) Bailer type: Plastic Teflon
 Pump type: Peristaltic Submersible Micro-purge Amazon Other:

Well Gauging and Purge Volume Calculations

Casing Diameter	25mm	<u>50mm</u>	100mm	125mm	150mm	200mm	250mm	300mm	Volume of water in well / V $= P \times r \times h$ V = volume in litres P = 3.14159 r = radius in cm h = height of water column in cm
Conversion Factor (volume in factor L/m)	0.49	<u>1.96</u>	7.85	12.3	17.7	31.4	49.1	70.7	

Total Well Depth 9.050 m (-) Water level 3.125 m (=) Water Column 5.925 m

Water Column 5.925 m (x) Conversion Factor 1.96 (=) Litres per 1 Well Volume 11.615 L

Depth to product: — m Product Thickness: — m Verified with Bailer: Y N

Water Quality Parameters

Beginning purge time: <u>10:09:53</u>		Ending purge time:		Pump Intake Depth (mbtoc):					
Litres	Time	PH	Temp °C	Cond µS/cm	DO mg/L	Redox mV	Drawdown <10cm	Comments	
1.0	10:12:30	6.70	21.6	7252	1.60	98.2	3.350	clear, no odour.	
2.0	10:17:03	6.69	21.5	8069	1.30	92.8	3.450	clear, no odour.	
3.0	10:21:31	6.69	21.4	8397	1.18	88.2	^{not} taken	clear, no odour.	
4.0	10:21:00	6.71	21.5	8560	1.02	85.8	3.555	clear, no odour.	
5.0	10:32:00	6.72	21.5	8548	0.90	82.0	3.540	clear, no odour.	

*pH, temp, cond readings not necessary if well is purged dry

Example Comments: clear / slightly cloudy / turbid / very turbid / no odour / slight odour / odour / strong odour / drawdown depth

5.0 Total Well Volume Actual amount of water prior to sampling Sample time 10:35 AM Containers used 16

Flow rate mL/minute Did field parameters stabilise? Y N NA Was the well dry purged? Y N

Field QC Checks

Was pre-cleaned sampling equipment used for these samples?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	
Was pre-cleaning sampling equipment properly protected from contamination?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	
Was documentation of equipment conducted?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> NA
Were air bubbles present in vials at time of collection?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> NA
Was sample for metals field filtered prior to preservations?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> NA
<u>Triplicate</u> Duplicate sample collected?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	
Rinsate blank collected?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	

Triplicate Duplicate sample ID Triplicate_271113-TH

Rinsate blank ID _____



Groundwater - Well Sampling Data Form

Job Information

Date: 27/11/13	Time: arrive 8:15am, depart 9:25am
Project Name: SYPHONY	Project Number: 224198
Site Location: LIDDELL LN	Sampler: TH
Well ID: LN-MW02	Weather: HOT & CLEAR

Equipment

Water quality equipment description: YSI - 11101262 - Interface probe number: Coded IP 4261 30m.

Purging equipment: (please circle) Bailer type: Plastic Teflon **PID = 0.1**
 Pump type: Peristaltic Submersible Micro-purge Amazon Other:

Well Gauging and Purge Volume Calculations

Casing Diameter	25mm	50mm	100mm	125mm	150mm	200mm	250mm	300mm	Volume of water in well / V = $\pi r^2 h$ V = volume in litres P = 3.14159 r = radius in cm h = height of water column in cm
Conversion Factor (volume in factor L/m)	0.49	1.96	7.85	12.3	17.7	31.4	49.1	70.7	

Total Well Depth (-) Water level (=) Water Column
 7.550 m (-) 2.091 m (=) 5.459 m

Water Column (x) Conversion Factor (=) Litres per 1 Well Volume
 5.459 m (x) 1.96 (=) 10.70 L

Depth to product: — m Product Thickness: — m Verified with Bailer: Y N

Water Quality Parameters

Beginning purge time: 8:44:44		Ending purge time: 9:01:00		Pump Intake Depth (mbtoc):				Comments
Litres	Time	PH	Temp °C	Cond μ S/cm	DO mg/L	Redox mV	Drawdown <10cm	
1.0	8:44:40	6.74	20.7	3029	1.80	102.2	2.150	Brown turbidity, no odour
2.0	8:50:30	6.61	20.8	2690	0.79	86.1	2.140	" " " "
3.0	8:55:40	6.60	20.9	2659	0.63	75.0	2.140	" " " "
4.0	9:00:33	6.59	20.9	2651	0.18	66.2	2.140	" " " "

*pH, temp, cond readings not necessary if well is purged dry

Example Comments: clear / slightly cloudy / turbid / very turbid / no odour / slight odour / odour / strong odour / drawdown depth

4.00 Total Well Volume Actual amount of water prior to sampling Sample time 9:10am Containers used 9

Flow rate mL/minute Did field parameters stabilise? Y N NA Was the well dry purged? Y N

Field QC Checks

Was pre-cleaned sampling equipment used for these samples?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Was pre-cleaning sampling equipment properly protected from contamination?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Was documentation of equipment conducted?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA
Were air bubbles present in vials at time of collection?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/> NA
Was sample for metals field filtered prior to preservations?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA
Duplicate sample collected?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N Duplicate sample ID —
Rinsate blank collected?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N Rinsate blank ID —



Groundwater - Well Sampling Data Form

Job Information

Date: 27/11/13	Time: arrive 4:10pm depart
Project Name: SYMPHONY	Project Number: 224198
Site Location: LIDDELL LN -	Sampler: TH
Well ID: LN-MW04	Weather: FINE

Equipment

Water quality equipment description: YSI 11K101262		Interface probe number: Quatech IP#4261 30m	
Purging equipment: (please circle)	Bailer type: Plastic	Teflon	PiO = 0.3
	Pump type: Peristaltic	Submersible	Micro-purge Amazon Other:

Well Gauging and Purge Volume Calculations

Casing Diameter	25mm	50mm	100mm	125mm	150mm	200mm	250mm	300mm	Volume of water in well / V = Pr x r x h V = volume in litres P = 3.14159 r = radius in cm h = height of water column in cm
Conversion Factor (volume in factor L/m)	0.49	1.96	7.85	12.3	17.7	31.4	49.1	70.7	
Total Well Depth	(-) Water level		(=) Water Column						
4.800 m	(-) 1.757 m		(=) 3.043 m						
Water Column			(x) Conversion Factor		(=) Litres per 1 Well Volume				
3.043 m			(x) 1.96		(=) 5.96 L				
Depth to product:	m		Product Thickness:		m			Verified with Bailer: <input checked="" type="checkbox"/> <input type="checkbox"/>	

Water Quality Parameters

Beginning purge time: 16:33:22		Ending purge time:				Pump Intake Depth (mbtoc):				
Litres	Time	PH	Temp °C	Cond µS/cm	DO mg/Lppm	Redox mV	Drawdown <10cm	Comments		
1.0	16:36:40	5.68	21.5	8354	3.17	115.3	1.99	Very turbid (brown), no odour		
2.0	16:41:30	5.80	22.1	8662	2.05	94.3	2.145	brown turbidity, no odour		
2.0	16:46:00	5.87	21.9	8705	1.59	80.4	2.345	Minor higher brown turbidity (cloudy), odour		
4.0	16:51:00	5.67	22.1	9536	1.42	77.9	2.570	more brown turbidity, odour		
4.5	16:54:14	5.54	22.1	10236	1.24	82.2	2.615	brown turbid, odour		
5.0	16:57:30	5.44	22.0	10478	1.03	81.6	2.73	As above.		
5.5	17:01:00	5.31	21.9	11274	0.61	82.1	2.855	As above.		
6.0	17:03:00	5.23	22.0	11639	0.54	87.1	2.890	As above & pump stopped - water running out		
6.5										
7.0										
*pH, temp, cond readings not necessary if well is purged dry							Example Comments: clear / slightly cloudy / turbid / very turbid / no odour / slight odour / odour / strong odour / drawdown depth			

Total Well Volume	Actual amount of water prior to sampling	Sample time	5:10pm	Containers used	
Flow rate mL/minute		Did field parameters stabilise?	<input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	Was the well dry purged?	<input checked="" type="checkbox"/> <input type="checkbox"/>

Field QC Checks

Was pre-cleaned sampling equipment used for these samples?	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Was pre-cleaning sampling equipment properly protected from contamination?	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Was documentation of equipment conducted?	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Were air bubbles present in vials at time of collection?	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Was sample for metals field filtered prior to preservations?	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Duplicate sample collected?	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Rinsate blank collected?	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Duplicate sample ID	
Rinsate blank ID	RINSATE-27113-TH



Groundwater - Well Sampling Data Form

Job Information

Date: 28/11/13	Time: arrive 9:40am depart 10:45
Project Name: SYMPHONY	Project Number: 22498
Site Location: LIDDELL-LN	Sampler: TM
Well ID: LN-MW04	Weather: Hot

Equipment

Water quality equipment description: US1-11K101262	Interface probe number: Coatech IP 421 4261
Purging equipment: (please circle)	Bailer type: Plastic Teflon P.I.D. = 9.8 Pump type: Peristaltic Submersible Micro-purge Amazon Other: Pan

Well Gauging and Purge Volume Calculations

Casing Diameter	25mm	50mm	100mm	125mm	150mm	200mm	250mm	300mm	Volume of water in well / V = Pr x r x h V = volume in litres P = 3.14159 r = radius in cm h = height of water column in cm
Conversion Factor (volume in factor L/m)	0.49	1.96	7.85	12.3	17.7	31.4	49.1	70.7	
Total Well Depth	(-) Water level	(=) Water Column							
4.600 m	(-) 2.295 m	(=) 2.505 m							
Water Column		(x) Conversion Factor	(=) Litres per 1 Well Volume						
2.505 m		(x) 1.96	(=) 4.91 L						
Depth to product: — m	Product Thickness: — m	Verified with Bailer: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N							

Water Quality Parameters

Beginning purge time: 9:58:00		Ending purge time:				Pump Intake Depth (mbtoc):			
Litres	Time	PH	Temp °C	Cond µS/cm	DO mg/L	Redox mV	Drawdown <10cm	Comments	
1.0	10:03:45	5.29	21.3	10380	9.23	122.8	2.69	very brown turbidity, odour	
2.0	10:06:55	5.30	21.2	11088	3.60	121.2	2.900	turbidity clearing, odour	
2.5	10:08:04	5.23	21.3	11852	2.46	124.8	2.995	As above	
3.0	10:09:20	5.21	21.3	12071	1.06	120.5	3.06	As above	
<p>SAMPLED GIVEN LOW VOLUME OF WATER REMAINING (AND FACT THAT WELL WAS PURGED DRY DAY BEFORE)</p>									

*pH, temp, cond readings not necessary if well is purged dry

Example Comments: clear / slightly cloudy / turbid / very turbid / no odour / slight odour / odour / strong odour / drawdown depth

3.0	Total Well Volume Actual amount of water prior to sampling	Sample time 10:40AM	Containers used 9
	Flow rate mL/minute	Did field parameters stabilise? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	Was the well dry purged? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N

Field QC Checks

Was pre-cleaned sampling equipment used for these samples?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Was pre-cleaning sampling equipment properly protected from contamination?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Was documentation of equipment conducted?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
Were air bubbles present in vials at time of collection?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA	
Was sample for metals field filtered prior to preservations?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
Duplicate sample collected?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	Duplicate sample ID _____
Rinsate blank collected?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	Rinsate blank ID _____



Groundwater - Well Sampling Data Form

Job Information

Date: 27/11/13	Time: arrive 2:40 depart 4:05
Project Name: Symptomcy	Project Number: 0224108
Site Location: LIODELL-LN	Sampler: TH
Well ID: LN-MW05	Weather: FINE & CLEAR

Equipment

Water quality equipment description: YSI-11K101262 Interface probe number: Cootech IP. # 4261. 30m

Purging equipment: (please circle) Bailer type: Plastic Teflon P10 peak = 0.3
 Pump type: Peristaltic Submersible Micro-purge Amazon Other:

Well Gauging and Purge Volume Calculations

Casing Diameter	25mm	50mm	100mm	125mm	150mm	200mm	250mm	300mm	Volume of water in well / V $= Pr \times r \times h$ V = volume in litres $P = 3.14159$ $r = \text{radius in cm}$ $h = \text{height of water column in cm}$
Conversion Factor (volume in factor L/m)	0.49	1.96	7.85	12.3	17.7	31.4	49.1	70.7	

Total Well Depth (-) Water level (=) Water Column
 10.162 m (-) 1.722 m (=) 8.440 m

Water Column (x) Conversion Factor (=) Litres per 1 Well Volume
 8.440 m (x) 1.96 (=) 16.46 L

Depth to product: _____ m Product Thickness: _____ m Verified with Bailer: Y N

Water Quality Parameters

Beginning purge time: 15:15:45		Ending purge time:		Pump Intake Depth (mbtoc):				
Litres	Time	PH	Temp °C	Cond µS/cm	DO mg/L	Redox mV	Drawdown <10cm	Comments
1.0	15:20:12	6.67	22.2	5361	0.36	66.3	1.760	Brown turbidity, no odour
2.0	15:25:24	6.68	21.8	5662	0.24	53.5	1.765	As above
3.0	15:30:30	6.67	21.8	5854	0.18	49.2	1.755	As above
4.0	15:36:00	6.68	21.8	5979	0.12	46.3	1.770	As above
4.5	15:39:00	6.66	21.6	6008	0.07	43.9	1.770	As above

*pH, temp, cond readings not necessary if well is purged dry

Example Comments: clear / slightly cloudy / turbid / very turbid / no odour / slight odour / odour / strong odour / drawdown depth

4.5. Total Well Volume Actual amount of water prior to sampling Sample time 3.45 min Containers used 9.

Flow rate mL/minute Did field parameters stabilise? Y N NA Was the well dry purged? Y N

Field QC Checks

Was pre-cleaned sampling equipment used for these samples?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Was pre-cleaning sampling equipment properly protected from contamination?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Was documentation of equipment conducted?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Were air bubbles present in vials at time of collection?	<input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA
Was sample for metals field filtered prior to preservations?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Duplicate sample collected?	<input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N
Rinsate blank collected?	<input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N

Duplicate sample ID _____
 Rinsate blank ID _____



Groundwater - Well Sampling Data Form

Job Information

Date: 27/11/13	Time: arrive 1:10pm - depart
Project Name: SYMPHONY	Project Number: 224198
Site Location: LIDELL LN	Sampler: TH
Well ID: LN - MW06	Weather: HOT & CLEAR -

Equipment

Water quality equipment description:		Interface probe number: Cooked IP #4261 30m	
Purging equipment: (please circle)	Bailer type: Plastic	Teflon	PID Peak = 0.3
	Pump type: Peristaltic	Submersible	Micro-purge Amazon Other:

Well Gauging and Purge Volume Calculations

Casing Diameter	25mm	50mm	100mm	125mm	150mm	200mm	250mm	300mm	Volume of water in well / V $= P \times r \times h$ V = volume in litres $P = 3.14159$ $r = \text{radius in cm}$ $h = \text{height of water column in cm}$
Conversion Factor (volume in factor L/m)	0.49	1.96	7.85	12.3	17.7	31.4	49.1	70.7	
Total Well Depth	(-) Water level	(=) Water Column							
9.930 m	(-) 1.814 m	(=) 8.116 m							
	Water Column	(x) Conversion Factor	(=) Litres per 1 Well Volume						
	8.116 m	(x) 1.96	(=) 15.91 L						
Depth to product: - m	Product Thickness: - m	Verified with Bailer: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N							

Water Quality Parameters

Beginning purge time: 13:30:10		Ending purge time:		Pump Intake Depth (mbtoc):					Comments
Litres	Time	PH	Temp °C	Cond $\mu\text{S/cm}$	DO mg/L	Redox mV	Drawdown <10cm		
1.0	13:34:20	6.53	23.0	5047	0.83	64.2	1.900	Brown turbidity, no odour	
2.0	13:39:00	6.55	22.7	5010	0.56	54.6	1.905	Brown turbidity, no odour	
3.0	13:44:00	6.61	22.6	4955	0.34	49.4	1.895	Brown turbidity, no odour	
4.0	13:50:00	6.56	22.7	5069	0.30	49.2	1.895	Brown turbidity, no odour	
4.5	13:53:00	6.60	22.9	5111	0.29	47.7	1.88	" " "	

*pH, temp, cond readings not necessary if well is purged dry

Example Comments: clear / slightly cloudy / turbid / very turbid / no odour / slight odour / odour / strong odour / drawdown depth

4.5	Total Well Volume Actual amount of water prior to sampling	Sample time: 2pm	Containers used: 9
	Flow rate mL/minute	Did field parameters stabilise? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	Was the well dry purged? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N

Field QC Checks

Was pre-cleaned sampling equipment used for these samples?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Was pre-cleaning sampling equipment properly protected from contamination?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Was documentation of equipment conducted?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
Were air bubbles present in vials at time of collection?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
Was sample for metals field filtered prior to preservations?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
Duplicate sample collected?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Duplicate sample ID _____
Rinsate blank collected?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Rinsate blank ID _____



Groundwater - Well Sampling Data Form

Job Information

Date: 27/11/13	Time: arrive 11:15am - depart
Project Name: SYMPHONY	Project Number: 224198
Site Location: LIDDELL - LN	Sampler: TH
Well ID: LN-MW07	Weather: HOT & CLEAR

Equipment

Water quality equipment description: <u>YH-11K101262</u>	Interface probe number: <u>Cootech IP. 626130m</u>
Purging equipment: (please circle)	Bailer type: <u>Plastic</u> Teflon <u>AD = 0.2</u>
	Pump type: <u>Peristaltic</u> Submersible Micro-purge Amazon Other:

Well Gauging and Purge Volume Calculations

Casing Diameter	25mm	50mm	100mm	125mm	150mm	200mm	250mm	300mm	Volume of water in well / V = $\pi r^2 h$ V = volume in litres P = 3.14159 r = radius in cm h = height of water column in cm
Conversion Factor (volume in factor L/m)	0.49	1.96	7.85	12.3	17.7	31.4	49.1	70.7	
Total Well Depth	(-) Water level	(=) Water Column							
7.985 m	(-) 2.200 m	(=) 5.785 m							
	Water Column	(x) Conversion Factor	(=) Litres per 1 Well Volume						
	5.785 m	(x) 1.96	(=) 11. L						
Depth to product: _____ m	Product Thickness: _____ m	Verified with Bailer: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N							

Water Quality Parameters

Beginning purge time: 11:39:39		Ending purge time:				Pump Intake Depth (mbtc):		
Litres	Time	PH	Temp °C	Cond μ S/cm	DO μ M	Redox mV	Drawdown <10cm	Comments
1.0	11:45:25	6.41	22.4	14892	2.80	94.5	2.695	No odour, clear.
2.0	11:51:00	6.44	22.4	16319	2.44	79.9	2.835	No odour, clear.
3.0	11:56:30	6.45	22.2	16584	2.33	65.3	3.080	No odour, clear.
4.0	12:02:00	6.46	22.0	16773	2.25	57.9	3.280	No odour, clear.
4.5	12:05:30	6.46	22.0	18019	1.93	49.9	3.315	No odour, clear.
5.0	12:07:15	6.46	22.2	18044	1.78	47.2	3.345	No odour, clear.
5.5	12:10:45	6.47	22.1	17197	1.67	41.6	3.410	No odour, clear.
6.0	12:13:47	6.47	22.1	17273	1.60	40.7	3.455	No odour, clear.

*pH, temp, cond readings not necessary if well is purged dry

Example Comments: clear / slightly cloudy / turbid / very turbid / no odour / slight odour / odour / strong odour / drawdown depth

6.0	Total Well Volume Actual amount of water prior to sampling	Sample time 12:10pm	Containers used 9.
	Flow rate mL/minute	Did field parameters stabilise? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	Was the well dry purged? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N

Field QC Checks

Was pre-cleaned sampling equipment used for these samples?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Was pre-cleaning sampling equipment properly protected from contamination?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Was documentation of equipment conducted?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Were air bubbles present in vials at time of collection?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Was sample for metals field filtered prior to preservations?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Duplicate sample collected?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N Duplicate sample ID _____
Rinsate blank collected?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N Rinsate blank ID _____



Groundwater - Well Sampling Data Form

Job Information	
Date: <u>16/12/13</u>	Time: arrive <u>3</u> depart
Project Name: <u>SIMPSONY</u>	Project Number: <u>0224198</u>
Site Location: <u>LODELL</u>	Sampler: <u>TH</u>
Well ID: <u>LO - MW01</u>	Weather: <u>Hot</u>

Equipment	
Water quality equipment description:	Interface probe number: <u>Geotech IP. 426130</u>
Purging equipment: (please circle)	Bailer type: <u>Plastic</u> Teflon <u>Stainless steel</u>
	Pump type: <u>Peristaltic</u> Submersible <u>Micro-purge</u> Amazon Other:

Well Gauging and Purge Volume Calculations									
Casing Diameter	25mm	50mm	100mm	125mm	150mm	200mm	250mm	300mm	Volume of water in well / V $= Pr \times r \times h$ V = volume in litres P = 3.14159 r = radius in cm h = height of water column in cm
Conversion Factor (volume in factor L/m)	0.49	1.96	7.85	12.3	17.7	31.4	49.1	70.7	
Total Well Depth	(-) Water level	(=) Water Column							
<u>10.047</u> m	(-) <u>9.464</u> m	(=) <u>0.583</u> m							
	Water Column	(x) Conversion Factor	(=) Litres per 1 Well Volume						
	<u>0.583</u> m	(x) <u>1.96</u>	(=) <u>1.14</u> L						
Depth to product:	Product Thickness:	Verified with Bailer:		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N					

Water Quality Parameters									
Beginning purge time:			Ending purge time:				Pump Intake Depth (mbtoc):		Comments
Litres	Time	PH	Temp °C	Cond mS/cm	DO mg/L	Redox mV	Drawdown <10cm		
								<u>Crab sample taken due to insufficient well volume.</u>	
								<u>Grey turbidity, no odor</u>	

*pH, temp, cond readings not necessary if well is purged dry

Example Comments: clear / slightly cloudy / turbid / very turbid / no odour / slight odour / odour / strong odour / drawdown depth

Total Well Volume	Actual amount of water prior to sampling	Sample time	<u>4.30</u>	Containers used	<u>7</u>
Flow rate	mL/minute	Did field parameters stabilise?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	Was the well dry purged?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N

Field QC Checks	
Was pre-cleaned sampling equipment used for these samples?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Was pre-cleaning sampling equipment properly protected from contamination?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Was documentation of equipment conducted?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Were air bubbles present in vials at time of collection?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Was sample for metals field filtered prior to preservations?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Duplicate sample collected?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Rinsate blank collected?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Duplicate sample ID	<u>LO-H61213-TH</u>
Rinsate blank ID	<u>LO-H61213-TH</u>

- too little well volume.



Groundwater - Well Sampling Data Form

Job Information	
Date: 17/12/13	Time: arrive 10:30AM depart 11:30
Project Name: SYMPHONY	Project Number: 0224198
Site Location: LIODELL	Sampler: TH
Well ID: LO-MW02	Weather: HOT + CLEAR

Equipment	
Water quality equipment description: 90FLMV	Interface probe number: 45443 Crestech IP 4261 30m
Purging equipment: (please circle)	Bailer type: Plastic Teflon
	Pump type: Peristaltic Submersible Micro-purge Amazon Other:

Well Gauging and Purge Volume Calculations									
Casing Diameter	25mm	50mm	100mm	125mm	150mm	200mm	250mm	300mm	Volume of water in well / V = Pr x r x h V = volume in litres P = 3.14159 r = radius in cm h = height of water column in cm
Conversion Factor (volume in factor L/m)	0.49	1.96	7.85	12.3	17.7	31.4	49.1	70.7	
Total Well Depth	(-) Water level	(=) Water Column							
6.000 m	(-) 2.874 m	(=) 3.126 m							
Water Column		(x) Conversion Factor	(=) Litres per 1 Well Volume						
3.126 m		(x) 1.96	(=) 6.224 L						
Depth to product:	m	Product Thickness:	m	Verified with Bailer:		<input type="checkbox"/> Y <input checked="" type="checkbox"/> N			

Water Quality Parameters								
Beginning purge time: 10:40:00			Ending purge time:			Pump Intake Depth (mbtoc):		
Litres	Time	PH	Temp °C	Cond mS/cm	DO mg/L	Redox mV	Drawdown <10cm	Comments
1L	10:45:00	7.24	23.2	2.72	0.54	-77	2.895	hydrocarbon above
2L	10:50:30	7.21	23.8	2.66	0.41	-77	2.900	as above
3L	10:56:00	7.20	24.0	2.64	0.32	-76	2.905	as above
4L	11:01:00	7.20	23.9	2.62	0.27	-76	2.910	as above
*pH, temp, cond readings not necessary if well is purged dry				Example Comments: clear / slightly cloudy / turbid / very turbid / no odour / slight odour / odour / strong odour / drawdown depth				

Total Well Volume Actual amount of water prior to sampling	Sample time 11:10AM	Containers used 7
Flow rate mL/minute	Did field parameters stabilise? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	Was the well dry purged? <input type="checkbox"/> Y <input type="checkbox"/> N

Field QC Checks	
Was pre-cleaned sampling equipment used for these samples?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Was pre-cleaning sampling equipment properly protected from contamination?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Was documentation of equipment conducted?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Were air bubbles present in vials at time of collection?	<input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA
Was sample for metals field filtered prior to preservations?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Duplicate sample collected?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Rinsate blank collected?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Duplicate sample ID	_____
Rinsate blank ID	_____



Groundwater - Well Sampling Data Form

Job Information	
Date: <u>13/12/13</u>	Time: arrive <u>09:20</u> depart <u>10:20</u>
Project Name: <u>Symphony</u>	Project Number: <u>022498</u>
Site Location: <u>hiddell</u>	Sampler: <u>K.F.</u>
Well ID: <u>LO-MW03</u>	Weather: <u>Fin</u>

Equipment	
Water quality equipment description: <u>YSI 11101262</u>	Interface probe number: <u>NSW 4253 30m</u>
Purging equipment: (please circle)	Bailer type: <u>Plastic</u> Teflon
	Pump type: <u>Peristaltic</u> Submersible Micro-purge Amazon Other:

Well Gauging and Purge Volume Calculations									
Casing Diameter	25mm	50mm	100mm	125mm	150mm	200mm	250mm	300mm	Volume of water in well / V = Pr x r x h V = volume in litres P = 3.14159 r = radius in cm h = height of water column in cm
Conversion Factor (volume in factor L/m)	0.49	<u>1.96</u>	7.85	12.3	17.7	31.4	49.1	70.7	
Total Well Depth <u>5.03</u> m (-) Water level <u>3.26</u> m (-) (=) Water Column <u>1.77</u> m									
		Water Column <u>1.77</u> m (x) Conversion Factor <u>1.96</u> (=) Litres per 1 Well Volume <u>~3.46</u> L							
Depth to product: <u> </u> m	Product Thickness: <u> </u> m		Verified with Bailer: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N						

Water Quality Parameters								
Beginning purge time: <u>09:25</u>			Ending purge time:			Pump Intake Depth (mbtoc):		
Litres	Time	PH	Temp °C	Cond mS/cm	DO mg/L	Redox mV	Drawdown <10cm	Comments
0.5	09:29	6.79	21.5	4302	2.67	48.0	3.39	<u>P10=1.8 ppm</u> clear, no odour
1	09:32	6.75	21.3	4121	2.26	45.8	3.44	slightly cloudy, no odour.
1.5	09:35	6.75	21.1	3977	1.98	45.4	3.48	" "
2	09:38	6.75	21.3	3847	1.79	44.9	3.54	" "
2.5	09:41	6.74	21.3	3748	1.62	44.6	3.56	" "

*pH, temp, cond readings not necessary if well is purged dry

Example Comments: clear / slightly cloudy / turbid / very turbid / no odour / slight odour / odour / strong odour / drawdown depth

<u>156</u>	Total Well Volume Actual amount of water prior to sampling	Sample time <u>09:45</u>	Containers used <u>9+9</u>
	Flow rate mL/minute	Did field parameters stabilise? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	Was the well dry purged? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N

Field QC Checks			
Was pre-cleaned sampling equipment used for these samples?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	
Was pre-cleaning sampling equipment properly protected from contamination?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	
Was documentation of equipment conducted?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> NA
Were air bubbles present in vials at time of collection?	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	<input type="checkbox"/> NA
Was sample for metals field filtered prior to preservations?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> NA
Duplicate sample collected?	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
Rinsate blank collected?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	
Duplicate sample ID <u> </u>		Rinsate blank ID <u>R01-131213-KF</u>	



Groundwater - Well Sampling Data Form

Job Information	
Date: 16/12/13.	Time: arrive 10:45am. depart
Project Name: SYMPHONY	Project Number: 022498
Site Location: LINDALL	Sampler: TH
Well ID: L0-MW03	Weather: FINE + cloudy

Equipment	
Water quality equipment description:	Interface probe number: Catech IP 4261 30m
Purging equipment: (please circle)	Bailer type: Plastic Teflon Pump type: <u>Peristaltic</u> Submersible Micro-purge Amazon Other: PID peak = 0.8.

Well Gauging and Purge Volume Calculations									
Casing Diameter	25mm	50mm	100mm	125mm	150mm	200mm	250mm	300mm	Volume of water in well / V = $\pi r^2 \times h$ V = volume in litres. P = 3.14159 r = radius in cm h = height of water column in cm
Conversion Factor (volume in factor L/m)	0.49	1.96	7.85	12.3	17.7	31.4	49.1	70.7	
Total Well Depth	(-) Water level	(=) Water Column							
5.023 m	(-) 3.308 m	(=) 1.715 m							
			Water Column	(x) Conversion Factor	(=) Litres per 1 Well Volume				
			1.715 m	(x) 1.96	(=) 3.36 L				
Depth to product: _____ m			Product Thickness: _____ m		Verified with Bailer: <input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N				

Water Quality Parameters								
Beginning purge time: 11:55AM			Ending purge time:				Pump Intake Depth (mbtoc):	
Litres	Time	PH	Temp °C	Cond mS/cm	DO mg/L	Redox mV	Drawdown <10cm	Comments
1	11:59:30	6.77	22.1	4.4	0.88	143	N/A	clear, odour (slight)
1.5	12:03:30	6.78	21.8	4.3	0.87	131	3.695	As above.
2.0	12:05:30	6.78	21.9	4.25	0.78	128	3.735	" "
2.5	12:08:32	6.78	21.7	4.24	0.61	124	3.770	" "
3.0	12:12:47	6.78	21.6	4.21	0.53	113	3.800	As above.
3.5	12:18:02	6.78	22.1	4.17	0.48	104	3.910	As above.

*pH, temp, cond readings not necessary if well is purged dry

Example Comments: clear / slightly cloudy / turbid / very turbid / no odour / slight odour / odour / strong odour / drawdown depth

Total Well Volume Actual amount of water prior to sampling	Sample time: 12:20pm	Containers used: 7
Flow rate mL/minute	Did field parameters stabilise? <input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/> NA	Was the well dry purged? <input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N

Field QC Checks		
Was pre-cleaned sampling equipment used for these samples?	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N
Was pre-cleaning sampling equipment properly protected from contamination?	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N
Was documentation of equipment conducted?	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N <input checked="" type="checkbox"/> NA
Were air bubbles present in vials at time of collection?	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N <input checked="" type="checkbox"/> NA
Was sample for metals field filtered prior to preservations?	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N <input checked="" type="checkbox"/> NA
Duplicate sample collected?	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N
Rinsate blank collected?	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N
	Duplicate sample ID	_____
	Rinsate blank ID	_____



Groundwater - Well Sampling Data Form

Job Information	
Date: 16/12/13	Time: arrive 1pm depart
Project Name: SYMPHONY	Project Number: 0224198
Site Location: LIODELL	Sampler: TH
Well ID: LO-MW04	Weather: HOT + windy + cloudy

Equipment	
Water quality equipment description:	Interface probe number:
Purging equipment: (please circle)	Bailer type: Plastic Teflon
	Pump type: Peristaltic Submersible Micro-purge Amazon Other:

AD peak = 0.8.

Well Gauging and Purge Volume Calculations									
Casing Diameter	25mm	50mm	100mm	125mm	150mm	200mm	250mm	300mm	Volume of water in well / V = Pr x r x h V = volume in litres P = 3.14159 r = radius in cm h = height of water column in cm
Conversion Factor (volume in factor L/m)	0.49	1.96	7.85	12.3	17.7	31.4	49.1	70.7	
Total Well Depth	(-) Water level	(=) Water Column							
5.020 m	(-) 3.452 m	(=) 1.568 m							
			Water Column	(x) Conversion Factor	(=) Litres per 1 Well Volume				
			1.568 m	(x) 1.96	(=) 3.07				
Depth to product: _____ m			Product Thickness: _____ m		Verified with Bailer: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N				

Water Quality Parameters								
Beginning purge time: 1:30:30			Ending purge time:			Pump Intake Depth (mbtoc):		
Litres	Time	PH	Temp °C	Cond mS/cm	DO mg/L	Redox mV	Drawdown <10cm	Comments
1	13:34:34	7.54	21.7	3.03	0.94	36	3.710	no odour clear
2	13:41:07	7.56	21.7	3.02	0.56	13	3.886	no odour, clear.
3	13:49:21	7.56	22.8	3.14	3.71	29	3.912	no odour, clear.
4	14:03:28	7.28	21.4	3.40	1.67	20	3.986	no odour, clear.
*pH, temp, cond readings not necessary if well is purged dry						Example Comments: clear / slightly cloudy / turbid / very turbid / no odour / slight odour / odour / strong odour / drawdown depth		
Total Well Volume			Sample time _____			Containers used _____		
Actual amount of water prior to sampling								
Flow rate mL/minute			Did field parameters stabilise? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA			Was the well dry purged? <input type="checkbox"/> Y <input type="checkbox"/> N		

Field QC Checks			
Was pre-cleaned sampling equipment used for these samples?	<input type="checkbox"/> Y	<input type="checkbox"/> N	Final DTW 3.991
Was pre-cleaning sampling equipment properly protected from contamination?	<input type="checkbox"/> Y	<input type="checkbox"/> N	
Was documentation of equipment conducted?	<input type="checkbox"/> Y	<input type="checkbox"/> N <input type="checkbox"/> NA	
Were air bubbles present in vials at time of collection?	<input type="checkbox"/> Y	<input type="checkbox"/> N <input type="checkbox"/> NA	
Was sample for metals field filtered prior to preservations?	<input type="checkbox"/> Y	<input type="checkbox"/> N <input type="checkbox"/> NA	
Duplicate sample collected?	<input type="checkbox"/> Y	<input type="checkbox"/> N	Duplicate sample ID _____
Rinsate blank collected?	<input type="checkbox"/> Y	<input type="checkbox"/> N	Rinsate blank ID _____



Groundwater - Well Sampling Data Form

Job Information	
Date: <u>16.12.13</u>	Time: arrive <u>1150</u> depart <u>1240</u>
Project Name: <u>Symphonia</u>	Project Number: <u>0224198</u>
Site Location: <u>Lidell</u>	Sampler: <u>J. Grant</u>
Well ID: <u>LO-MW05</u>	Weather: <u>fine</u>

Equipment	
Water quality equipment description: <u>U9117 10FLMV</u>	Interface probe number: <u>Syd 3957 60m</u>
Purging equipment: (please circle)	Bailer type: <u>Plastic</u> Teflon
	Pump type: <u>Peristaltic</u> Submersible Micro-purge Amazon Other:

Well Gauging and Purge Volume Calculations									
Casing Diameter	25mm	50mm	100mm	125mm	150mm	200mm	250mm	300mm	Volume of water in well / V = Pr x r x h V = volume in litres P = 3.14159 r = radius in cm h = height of water column in cm
Conversion Factor (volume in factor L/m)	0.98	<u>1.96</u>	7.85	31.4	49.1	70.7	125.7	196.3	
Total Well Depth (-) Water level (=) Water Column									
<u>5.990</u> m (-) <u>2.950</u> m (=) <u>3.040</u> m									
Water Column (x) Conversion Factor (=) Litres per 1 Well Volume									
<u>3.040</u> m (x) <u>1.96</u> (=) <u>~6</u> L									
Depth to product: <u>/</u> m		Product Thickness: <u>/</u> m		Verified with Bailer: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N					

Water Quality Parameters									
Beginning purge time: <u>1200</u>			Ending purge time:						
Litres	Time	PH	Temp °C	Cond mS/cm	DO mg/L	Redox mV	Drawdown <10cm	Comments	
1	1204	6.09	27.8	12.22	1.39	-83	3.075	Slightly cloudy - clear	
2	1208	6.07	26.7	12.32	0.86	-88	3.190	H.C odour - no sheen	
3	1212	6.09	26.6	12.23	0.55	-91	3.410	small	
4	1216	6.18	26.7	12.19	0.40	-79	3.590		
5	1220	6.20	26.7	12.19	0.38	-78	3.770		
*pH, temp, cond readings not necessary if well is purged dry								Example Comments: clear / slightly cloudy / turbid / very turbid / no odour / slight odour / odour / strong odour / drawdown depth	
<u>5</u>	Total Well Volume Actual amount of water prior to sampling			Sample time <u>1225</u>		Containers used <u>9</u>			
<u>-250</u>	Flow rate mL/minute			Did field parameters stabilise? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA			Was the well dry purged? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N		

Field QC Checks			
Was pre-cleaning sampling equipment used for these samples?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	
Was pre-cleaning sampling equipment properly protected from contamination?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	
Was documentation of equipment conducted?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> NA
Were air bubbles present in vials at time of collection?	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	<input type="checkbox"/> NA
Was sample for metals field filtered prior to preservations?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> NA
Duplicate sample collected?	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	Duplicate sample ID _____
Rinsate blank collected?	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	Rinsate blank ID _____



Groundwater - Well Sampling Data Form

Job Information	
Date: 16.12.13	Time: arrive 1245 depart 1330
Project Name: Symphony	Project Number: 0224198
Site Location: L. dell	Sampler: J. Grant
Well ID: LO-MW06	Weather: fine

Equipment	
Water quality equipment description: 90 FLMV U9117	Interface probe number: STD 3954 60m
Purging equipment: (please circle)	Bailer type: Plastic Teflon
	Pump type: Peristaltic Submersible Micro-purge Amazon Other:

Well Gauging and Purge Volume Calculations									
Casing Diameter	25mm	50mm	100mm	125mm	150mm	200mm	250mm	300mm	Volume of water in well / V = Pr x r x h V = volume in litres P = 3.14159 r = radius in cm h = height of water column in cm
Conversion Factor (volume in factor L/m)	0.98	0.96	7.85	31.4	49.1	70.7	125.7	196.3	
Total Well Depth (-) Water level (=) Water Column									
7.090 m (-) 2.980 m (=) 4.11 m									
Water Column (x) Conversion Factor (=) Litres per 1 Well Volume									
4.11 m (x) 1.96 (=) ~ 8 L									
Depth to product: / m		Product Thickness: / m		Verified with Bailer: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N					

Water Quality Parameters									
Beginning purge time: 1255					Ending purge time: VOC: 0.2				
Litres	Time	PH	Temp °C	Cond mS/cm	DO mg/L	Redox mV	Drawdown <10cm	Comments	
1	1259	6.49	26.3	3.39	1.54	-94	3.075	Turbid milky brown → clear	
2	1303	6.45	24.9	3.24	0.93	-102	3.175	Slight HC Odor - very small	
3	1307	6.45	24.3	3.15	0.56	-104	3.275	Sheen	
4	1311	6.44	24.2	3.14	0.42	-117	3.335		
5	1315	6.43	24.2	3.12	0.40	-116	3.380		
*pH, temp, cond readings not necessary if well is purged dry									
Example Comments: clear / slightly cloudy / turbid / very turbid / no odour / slight odour / odour / strong odour / drawdown depth									
5		Total Well Volume			Sample time 1320		Containers used 9		
250		Actual amount of water prior to sampling			Flow rate mL/minute		Did field parameters stabilise? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA		
							Was the well dry purged? <input type="checkbox"/> Y <input type="checkbox"/> N		

Field QC Checks	
Was pre-cleaning sampling equipment used for these samples?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Was pre-cleaning sampling equipment properly protected from contamination?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Was documentation of equipment conducted?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Were air bubbles present in vials at time of collection?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA
Was sample for metals field filtered prior to preservations?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Duplicate sample collected?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
Rinsate blank collected?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
Duplicate sample ID _____	
Rinsate blank ID _____	

6.109
2.98
4.11



Groundwater - Well Sampling Data Form

Job Information	
Date: 17-12-13	Time: arrive 10:55 depart 10:45
Project Name: Symphony	Project Number: 0224198
Site Location: Liddell	Sampler: JW
Well ID: LO-MW08	Weather: Sunny

Equipment	
Water quality equipment description: Almet 90 FLMD V9114	Interface probe number: Almet NSW 4254 30m.
Purging equipment: (please circle)	Bailer type: Plastic Teflon
	Pump type: Peristaltic Submersible Micro-purge Amazon Other:

Well Gauging and Purge Volume Calculations									
Casing Diameter	25mm	50mm	100mm	125mm	150mm	200mm	250mm	300mm	Volume of water in well / V = $\pi r^2 \times h$ V = volume in litres P = 3.14159 r = radius in cm h = height of water column in cm
Conversion Factor (volume in factor L/m)	0.49	1.96	7.85	12.3	17.7	31.4	49.1	70.7	
Total Well Depth	(-) Water level	(=) Water Column							
10.01 m	(-) 3.144 m	(=) 6.9 m							
Water Column		(x) Conversion Factor	(=) Litres per 1 Well Volume						
6.9 m		(x) 1.96	(=) 14 L						
Depth to product:	— m	Product Thickness:	— m	Verified with Bailer:		<input type="checkbox"/> Y <input checked="" type="checkbox"/> N			

Water Quality Parameters								
Beginning purge time: 11:03			Ending purge time: 11:30			Pump Intake Depth (mbtoc): 9.5		
Litres	Time	PH	Temp °C	Cond mS/cm	DO mg/L	Redox mV	Drawdown <10cm	Comments
1.0	11:08	7.38	24.0	18.01	1.02	77	3.17	cloudy/brown, no odour
2.0	11:15	7.81	23.2	19.05	0.49	82	3.22	as above
3.0	11:20	8.71	23.1	19.08	0.33	85	3.23	as above.
4.0	11:25	8.75	22.9	19.10	0.25	88	3.23	as above.
5.0	11:30	8.79	22.9	19.10	0.23	89	3.23	as above.

*pH, temp, cond readings not necessary if well is purged dry

Example Comments: clear / slightly cloudy / turbid / very turbid / no odour / slight odour / odour / strong odour / drawdown depth

5.0	Total Well Volume Actual amount of water prior to sampling	Sample time 11:31	Containers used 10
200	Flow rate mL/minute	Did field parameters stabilise? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA	Was the well dry purged? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N

Field QC Checks	
Was pre-cleaned sampling equipment used for these samples?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Was pre-cleaning sampling equipment properly protected from contamination?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Was documentation of equipment conducted?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Were air bubbles present in vials at time of collection?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA
Was sample for metals field filtered prior to preservations?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Duplicate sample collected?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
Rinsate blank collected?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N

4 x amber
1 x metal.
4 x vials.
1 x PPOS.
Final RTW 3:18

Duplicate sample ID —

Rinsate blank ID —



Groundwater - Well Sampling Data Form

Job Information	
Date: <u>16.12.13</u>	Time: arrive <u>16:10</u> depart <u>17:00</u>
Project Name: <u>Symphony</u>	Project Number: <u>0224198</u>
Site Location: <u>Liddell</u>	Sampler: <u>JW</u>
Well ID: <u>LO-MW10</u>	Weather: <u>Sunny</u>

Equipment	
Water quality equipment description: <u>Airmet 90 ACMV V9114</u>	Interface probe number: <u>Airmet NSW 4254 30m</u>
Purging equipment: (please circle)	Bailer type: <u>Plastic</u> Teflon
	Pump type: <u>Peristaltic</u> Submersible Micro-purge Amazon Other:

Well Gauging and Purge Volume Calculations									
Casing Diameter	25mm	<u>50mm</u>	100mm	125mm	150mm	200mm	250mm	300mm	Volume of water in well / V = Pr x r x h V = volume in litres P = 3.14159 r = radius in cm h = height of water column in cm
Conversion Factor (volume in factor L/m)	0.49	<u>1.96</u>	7.85	12.3	17.7	31.4	49.1	70.7	
Total Well Depth	(-) Water level	(=) Water Column							
<u>6.03</u> m	(-) <u>2.498</u> m	(=) _____ m							
Water Column		(x) Conversion Factor	(=) Litres per 1 Well Volume						
_____ m		(x) _____	(=) _____ L						
Depth to product: _____ m	Product Thickness: _____ m	Verified with Bailer: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N							

Water Quality Parameters									
Beginning purge time:			Ending purge time:				Pump Intake Depth (mbtoc):		
Litres	Time	PH	Temp °C	Cond mS/cm	DO mg/L	Redox mV	Drawdown <10cm	Comments	
1.0	16:32	4.38	24.3	4.12	1.03	39	2.56	cloudy, brown no odour.	
2.0	16:37	4.23	23.1	4.24	0.92	46	2.60	as above	
3.0	16:43	4.22	22.5	4.33	0.78	48	2.63	as above.	
4.0	16:49	4.22	22.2	4.33	0.62	53	2.65	as above.	
5.0	16:54	4.20	22.1	4.31	0.59	56	2.68	as above.	
*pH, temp, cond readings not necessary if well is purged dry				Example Comments: clear / slightly cloudy / turbid / very turbid / no odour / slight odour / odour / strong odour / drawdown depth					

<u>5.0L</u>	Total Well Volume Actual amount of water prior to sampling	Sample time <u>16:55</u>	Containers used <u>7</u>
<u>200</u>	Flow rate mL/minute	Did field parameters stabilise? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	Was the well dry purged? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N

Field QC Checks		
Was pre-cleaned sampling equipment used for these samples?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Amber 4 x vials 1 x metals. PFOS
Was pre-cleaning sampling equipment properly protected from contamination?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Was documentation of equipment conducted?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
Were air bubbles present in vials at time of collection?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA	
Was sample for metals field filtered prior to preservations?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
Duplicate sample collected?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Rinsate blank collected?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Duplicate sample ID _____ Rinsate blank ID <u>ROI-161213-JW</u>



Groundwater - Well Sampling Data Form

Job Information	
Date: 17.12.13	Time: arrive 8:30 depart 10:10
Project Name: symphony	Project Number: 0224198
Site Location: Lidden	Sampler: JW
Well ID: LO-MW11	Weather: Sunny

Equipment	
Water quality equipment description: Airmet 90 FLMV 9114	Interface probe number: Airmet NSW 4254 30m
Purging equipment: (please circle)	Bailer type: Plastic Teflon
	Pump type: Peristaltic Submersible Micro-purge Amazon Other:

Well Gauging and Purge Volume Calculations									
Casing Diameter	25mm	50mm	100mm	125mm	150mm	200mm	250mm	300mm	Volume of water in well / V = Pr x r x h V = volume in litres P = 3.14159 r = radius in cm h = height of water column in cm
Conversion Factor (volume in factor L/m)	0.49	1.96	7.85	12.3	17.7	31.4	49.1	70.7	
Total Well Depth	(-) Water level	(=) Water Column							
5.04 m	(-) 1.578 m	(=) 3.5 m							
			Water Column	(x) Conversion Factor	(=) Litres per 1 Well Volume				
			3.5 m	(x) 1.96	(=) 7.0 L				
Depth to product: _____ m		Product Thickness: _____ m		Verified with Bailer: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N					

Water Quality Parameters								
Beginning purge time: 8:46			Ending purge time: 9:12			Pump Intake Depth (mbtoc):		
Litres	Time	PH	Temp °C	Cond mS/cm	DO mg/L	Redox mV	Drawdown <10cm	Comments
1.0	8:49	8.32	21.9	1.53	2.73	48	1.90	clear, no odour.
2.0	8:56	8.09	22.1	1.44	2.60	-2.0	2.35	as above
3.0	9:01	8.11	21.6	1.28	2.66	-4.0	2.88	as above.
4.0	9:07	8.13	21.9	1.28	2.67	-20.0	2.95	as above
5.0	9:12	8.15	21.1	1.28	2.71	-23.0	3.04	as above
During sampling water stopped flow checked water level, changed tubing. Tubing caught on screen lowered and continued sampling.								
*pH, temp, cond readings not necessary if well is purged dry						Example Comments: clear / slightly cloudy / turbid / very turbid / no odour / slight odour / odour / strong odour / drawdown depth		

5.0	Total Well Volume Actual amount of water prior to sampling	Sample time 9:13	Containers used 7
	Flow rate mL/minute	Did field parameters stabilise? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	Was the well dry purged? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N

Field QC Checks	
Was pre-cleaned sampling equipment used for these samples?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Was pre-cleaning sampling equipment properly protected from contamination?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Was documentation of equipment conducted?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Were air bubbles present in vials at time of collection?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA
Was sample for metals field filtered prior to preservations?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Duplicate sample collected?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
Rinsate blank collected?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Duplicate sample ID _____ Rinsate blank ID _____	

1x amber
 1x metal
 4x vials.
 1x PFOs.
 Final OTW.



Groundwater - Well Sampling Data Form

Possible product
Returned with bailer.

Job Information	
Date: <u>17-12-13 / 18-12-13</u>	Time: arrive <u>10:20</u> depart <u>10:50 / 9:15 / 10:00</u>
Project Name: <u>Symphony</u>	Project Number: <u>0224198</u>
Site Location: <u>Lidden V</u>	Sampler: <u>JN</u>
Well ID: <u>LO-MW12</u>	Weather: <u>Sunny</u>

Equipment	
Water quality equipment description: <u>Airmet 90 PLMVI 49114</u>	Interface probe number: <u>Airmet NSW 4254 30m.</u>
Purging equipment: (please circle)	Bailer type: <u>Plastic</u> Teflon
	Pump type: <u>Peristaltic</u> Submersible Micro-purge Amazon Other:

Well Gauging and Purge Volume Calculations									
Casing Diameter	25mm	<u>50mm</u>	100mm	125mm	150mm	200mm	250mm	300mm	Volume of water in well / V = Pr x r x h V = volume in litres P = 3.14159 r = radius in cm h = height of water column in cm
Conversion Factor (volume in factor L/m)	0.49	<u>1.96</u>	7.85	12.3	17.7	31.4	49.1	70.7	
Total Well Depth	(-) Water level	(=) Water Column							
<u>5.01</u> m	(-) <u>3.442</u> m	(=) _____ m							
Water Column		(x) Conversion Factor	(=) Litres per 1 Well Volume						
_____ m		(x) _____	(=) _____						
Depth to product: <u>3.443</u> m	Product Thickness: <u>0</u> m	Verified with Bailer: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<i>no visible product in bailer</i> <i>no odour shown on 1p.</i>						

Water Quality Parameters								
Beginning purge time: <u>9:14</u>			Ending purge time: <u>9:40</u>			Pump Intake Depth (mbtoc):		
Litres	Time	PH	Temp °C	Cond mS/cm	DO mg/L	Redox mV	Drawdown <10cm	Comments
1.0	9:20	8.30	21.5	2.78	1.67	37		cloudy, no odour.
2.0	9:25	8.84	21.2	2.29	0.93	24	3.50	as above
3.0	9:30	8.94	21.0	2.06	0.91	14	3.51	as above.
4.0	9:35	8.89	21.1	2.06	0.90	12	3.52	slightly cloudy, no odour.
5.0	9:40	8.92	21.1	2.06	0.87	7.0	3.52	as above.

*pH, temp, cond readings not necessary if well is purged dry

Example Comments: clear / slightly cloudy / turbid / very turbid / no odour / slight odour / odour / strong odour / drawdown depth

<u>5.02</u>	Total Well Volume Actual amount of water prior to sampling	Sample time <u>9:41</u>	Containers used <u>7.</u>
<u>200</u>	Flow rate mL/minute	Did field parameters stabilise? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	Was the well dry purged? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N

Field QC Checks		
Was pre-cleaned sampling equipment used for these samples?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<i>4 x Vials.</i> <i>1 x amber.</i> <i>1 x metals.</i> <i>1 x PFOS.</i> <i>Final DTW 3.53.</i>
Was pre-cleaning sampling equipment properly protected from contamination?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Was documentation of equipment conducted?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
Were air bubbles present in vials at time of collection?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA	
Was sample for metals field filtered prior to preservations?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
Duplicate sample collected?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	
Rinsate blank collected?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	Duplicate sample ID _____
		Rinsate blank ID _____



Groundwater - Well Sampling Data Form

Job Information	
Date: 17.12.13	Time: arrive 7:05 depart 8:10
Project Name: Symphony	Project Number: 0224198
Site Location: Liddell	Sampler: JN
Well ID: LO-MW13	Weather: Sunny

Equipment	
Water quality equipment description: Airmet 90 FLMV V9114	Interface probe number: Airmet NSW 4754 30m
Purging equipment: (please circle)	Bailer type: Plastic Teflon
	Pump type: Peristaltic Submersible Micro-purge Amazon Other:

Well Gauging and Purge Volume Calculations									
Casing Diameter	25mm	50mm	100mm	125mm	150mm	200mm	250mm	300mm	Volume of water in well / V = Pr x r x h
Conversion Factor (volume in factor L/m)	0.49	1.96	7.85	12.3	17.7	31.4	49.1	70.7	V = volume in litres P = 3.14159 r = radius in cm h = height of water column in cm
Total Well Depth	(-) Water level	(=) Water Column							
9.02 m	(-) 1.908 m	(=) 7.0 m							
Water Column		(x) Conversion Factor	(=) Litres per 1 Well Volume						
7.0 m		(x) 1.96	(=) ~14 L						
Depth to product:	Product Thickness:		Verified with Bailer: <input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N						

Water Quality Parameters								
Beginning purge time: 7:28			Ending purge time: 7:57			Pump Intake Depth (mbtoc): 8.5		
Litres	Time	PH	Temp °C	Cond mS/cm	DO mg/L	Redox mV	Drawdown <10cm	Comments
1.0	7:33	8.43	21.1	3.64	1.46	125	1.92	clear, no odour.
2.0	7:43	8.31	21.3	3.65	0.58	98	1.97	as above.
3.0	7:48	8.49	21.4	3.62	0.57	86	1.93	as above.
4.0	7:53	8.42	21.4	3.58	0.51	79	1.93	as above.
5.0	7:57	8.41	21.4	3.62	0.49	79	1.93	as above.
*pH, temp, cond readings not necessary if well is purged dry						Example Comments: clear / slightly cloudy / turbid / very turbid / no odour / slight odour / odour / strong odour / drawdown depth		

5.0L	Total Well Volume Actual amount of water prior to sampling	Sample time 7:58	Containers used 9
200	Flow rate mL/minute	Did field parameters stabilise? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	Was the well dry purged? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N

Field QC Checks		
Was pre-cleaned sampling equipment used for these samples?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	3x amber 4x vials. 1x metals. PFOS. Final OTW 1.92.
Was pre-cleaning sampling equipment properly protected from contamination?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Was documentation of equipment conducted?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
Were air bubbles present in vials at time of collection?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA	
Was sample for metals field filtered prior to preservations?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
Duplicate sample collected?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Rinsate blank collected?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	
Duplicate sample ID		_____
Rinsate blank ID		_____



Groundwater - Well Sampling Data Form

Job Information	
Date: 17/12/13	Time: arrive 11:45. depart
Project Name: SYMPHONY.	Project Number: 224198
Site Location: LIDDELL.	Sampler: TH
Well ID: LO-MW14	Weather: HOT & CLEAR.

Equipment	
Water quality equipment description: 90 FLUO .	Interface probe number: Catech IP 30m 4261.
Purging equipment: (please circle)	Bailer type: Plastic Teflon
	Pump type: Peristaltic Submersible Micro-purge Amazon Other:

Well Gauging and Purge Volume Calculations									
Casing Diameter	25mm	50mm	100mm	125mm	150mm	200mm	250mm	300mm	Volume of water in well / V = Pr x r x h V = volume in litres P = 3.14159 r = radius in cm h = height of water column in cm
Conversion Factor (volume in factor L/m)	0.49	1.96	7.85	12.3	17.7	31.4	49.1	70.7	
Total Well Depth	(-) Water level	(=) Water Column							
13.877 m	(-) 1.977 m	(=) _____ m							
		Water Column	(x) Conversion Factor	(=) Litres per 1 Well Volume					
		_____ m	(x) 1.96	(=) _____					
Depth to product: _____ m	Product Thickness: _____ m	Verified with Bailer:	<input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N						

Water Quality Parameters								
Beginning purge time: 12:15:00		Ending purge time:			Pump Intake Depth (mbtoc):			
Litres	Time	PH	Temp °C	Cond mS/cm	DO ppm mg/L	Redox mV	Drawdown <10cm	Comments
1	12:19:41	7.41	22.0	4.04	0.72	-203	2.05	odour (not hydrogen sulfide) clear
2	12:25:41	7.42	22.0	3.70	0.50	-211	2.070	odour (sulfur-like) clear
3	12:31:00	7.42	22.4	3.64	0.25	-218	2.070	as above
4	12:37:33	7.41	22.6	3.7	0.21	-224	2.080	" "
*pH, temp, cond readings not necessary if well is purged dry				Example Comments: clear / slightly cloudy / turbid / very turbid / no odour / slight odour / odour / strong odour / drawdown depth				
Total Well Volume		Actual amount of water prior to sampling		Sample time: 12:45		Containers used _____		
Flow rate		mL/minute		Did field parameters stabilise?		Was the well dry purged?		
				<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA		<input type="checkbox"/> Y <input checked="" type="checkbox"/> N		

Field QC Checks	
Was pre-cleaned sampling equipment used for these samples?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Was pre-cleaning sampling equipment properly protected from contamination?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Was documentation of equipment conducted?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Were air bubbles present in vials at time of collection?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Was sample for metals field filtered prior to preservations?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Duplicate sample collected?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Rinsate blank collected?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Duplicate sample ID: 101-171213-TH	
Rinsate blank ID: 101-171213-TK	



Groundwater - Well Sampling Data Form

Job Information	
Date: <u>13/12/13</u>	Time: arrive <u>07:20</u> depart <u>08:15</u>
Project Name: <u>Symphony</u>	Project Number: <u>022198</u>
Site Location: <u>Liddell</u>	Sampler: <u>K.F.</u>
Well ID: <u>LO-MW15</u>	Weather: <u>Fine</u>

Equipment	
Water quality equipment description: <u>YSI 111K10262</u>	Interface probe number: <u>NSW 4253 30m</u>
Purging equipment: (please circle)	Bailer type: <u>Plastic</u> Teflon
	Pump type: <u>Peristaltic</u> Submersible Micro-purge Amazon Other:

Well Gauging and Purge Volume Calculations									
Casing Diameter	25mm	50mm	100mm	125mm	150mm	200mm	250mm	300mm	Volume of water in well / V = $\pi r^2 h$ V = volume in litres P = 3.14159 r = radius in cm h = height of water column in cm
Conversion Factor (volume in factor L/m)	0.49	<u>1.96</u>	7.85	12.3	17.7	31.4	49.1	70.7	
Total Well Depth (-) Water level (=) Water Column	<u>9.01</u> m (-) <u>2.82</u> m (=) <u>6.19</u> m								
Water Column (x) Conversion Factor (=) Litres per 1 Well Volume		<u>6.19</u> m (x) <u>1.96</u> (=) <u>~12.13</u> L							
Depth to product: <u> </u> m	Product Thickness: <u> </u> m	Verified with Bailer: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N							

Water Quality Parameters								
Beginning purge time: <u>07:25</u>			Ending purge time: <u> </u>				Pump Intake Depth (mbtoc): <u> </u>	
Litres	Time	PH	Temp °C	Cond mS/cm	DO mg/L	Redox mV	Drawdown <10cm	Comments
<u>1</u>	<u>07:31</u>	<u>6.40</u>	<u>21.2</u>	<u>5053</u>	<u>9.82</u>	<u>110.3</u>	<u>3.40</u>	<u>clear, no odour</u>
<u>2</u>	<u>07:36</u>	<u>5.69</u>	<u>21.3</u>	<u>4843</u>	<u>9.18</u>	<u>124.3</u>	<u>3.76</u>	<u>" "</u>
<u>3</u>	<u>07:41</u>	<u>5.60</u>	<u>21.3</u>	<u>5020</u>	<u>8.52</u>	<u>124.4</u>	<u>4.02</u>	<u>" "</u>
<u>4</u>	<u>07:46</u>	<u>5.58</u>	<u>21.4</u>	<u>5197</u>	<u>8.52</u>	<u>126.1</u>	<u>4.32</u>	<u>" "</u>

*pH, temp, cond readings not necessary if well is purged dry

Example Comments: clear / slightly cloudy / turbid / very turbid / no odour / slight odour / odour / strong odour / drawdown depth

<u>1490</u>	Total Well Volume Actual amount of water prior to sampling	Sample time <u>07:50</u>	Containers used <u>9</u>
	Flow rate mL/minute	Did field parameters stabilise? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	Was the well dry purged? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N

Field QC Checks	
Was pre-cleaned sampling equipment used for these samples?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Was pre-cleaning sampling equipment properly protected from contamination?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Was documentation of equipment conducted?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Were air bubbles present in vials at time of collection?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA
Was sample for metals field filtered prior to preservations?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Duplicate sample collected?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
Rinsate blank collected?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
Duplicate sample ID	<u> </u>
Rinsate blank ID	<u> </u>



Groundwater - Well Sampling Data Form

Job Information	
Date: <u>13/12/13</u>	Time: arrive <u>08:30</u> depart <u>09:15</u>
Project Name: <u>Symphony</u>	Project Number: <u>022498</u>
Site Location: <u>Liddell</u>	Sampler: <u>K.F.</u>
Well ID: <u>LO-MW16</u>	Weather: <u>Fine</u>

Equipment	
Water quality equipment description: <u>451 1114101262</u>	Interface probe number: <u>NSW 4253 30m 1</u>
Purging equipment: (please circle)	Bailer type: <u>Plastic</u> Teflon
	Pump type: <u>Peristaltic</u> Submersible Micro-purge Amazon Other:

Well Gauging and Purge Volume Calculations									
Casing Diameter	25mm	50mm	100mm	125mm	150mm	200mm	250mm	300mm	Volume of water in well / V = Pr x r x h V = volume in litres P = 3.14159 r = radius in cm h = height of water column in cm
Conversion Factor (volume in factor L/m)	0.49	<u>1.96</u>	7.85	12.3	17.7	31.4	49.1	70.7	
Total Well Depth	(-) Water level	(=) Water Column							
<u>10.07</u> m	(-) <u>4.65</u> m	(=) <u>5.42</u> m							
Water Column			Conversion Factor (=) Litres per 1 Well Volume						
<u>5.42</u> m (x) <u>1.96</u>			= <u>10.62</u> L						
Depth to product: _____ m	Product Thickness: _____ m	Verified with Bailer: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N							

Water Quality Parameters									
Beginning purge time: <u>08:28</u>		Ending purge time: _____				Pump Intake Depth (mbtoc): _____			
Litres	Time	PH	Temp °C	µCond mS/cm	DO mg/L	Redox mV	Drawdown <10cm	Comments	
								<u>PID = 0.8ppm</u>	
<u>1</u>	<u>08:33</u>	<u>6.11</u>	<u>21.2</u>	<u>10297</u>	<u>7.88</u>	<u>75.0</u>	<u>5.07</u>	<u>Clear, no odour</u>	
<u>2</u>	<u>08:39</u>	<u>6.13</u>	<u>21.3</u>	<u>11010</u>	<u>6.51</u>	<u>72.4</u>	<u>5.20</u>	<u>" "</u>	
<u>3</u>	<u>08:43</u>	<u>6.13</u>	<u>21.2</u>	<u>11305</u>	<u>4.33</u>	<u>70.3</u>	<u>5.15</u>	<u>" "</u>	
<u>4</u>	<u>08:49</u>	<u>6.11</u>	<u>21.2</u>	<u>11521</u>	<u>3.33</u>	<u>69.8</u>	<u>5.17</u>	<u>" "</u>	
*pH, temp, cond readings not necessary if well is purged dry				Example Comments: clear / slightly cloudy / turbid / very turbid / no odour / slight odour / odour / strong odour / drawdown depth					
Total Well Volume		Sample time <u>08:55</u>				Containers used <u>9</u>			
Actual amount of water prior to sampling									
<u>2190</u>		Flow rate mL/minute				Did field parameters stabilise? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA			
						Was the well dry purged? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N			

Field QC Checks	
Was pre-cleaned sampling equipment used for these samples?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Was pre-cleaning sampling equipment properly protected from contamination?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Was documentation of equipment conducted?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Were air bubbles present in vials at time of collection?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA
Was sample for metals field filtered prior to preservations?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Duplicate sample collected?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
Rinsate blank collected?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
Duplicate sample ID	_____
Rinsate blank ID	_____



Groundwater - Well Sampling Data Form

Job Information	
Date: 17.12.13	Time: arrive 11:50 depart 12:40
Project Name: Symphony	Project Number: 0224198
Site Location: Liddell	Sampler: JW
Well ID: 60-MW17	Weather: Sunny

Equipment	
Water quality equipment description: Airnet 90FLMV	Interface probe number: Airnet NSW 4254 20M.
Purging equipment: (please circle)	Bailer type: Plastic Teflon
	Pump type: Peristaltic Submersible Micro-purge Amazon Other:

Well Gauging and Purge Volume Calculations									
Casing Diameter	25mm	50mm	100mm	125mm	150mm	200mm	250mm	300mm	Volume of water in well / V = Pr x r x h
Conversion Factor (volume in factor L/m)	0.49	1.96	7.85	12.3	17.7	31.4	49.1	70.7	V = volume in litres P = 3.14159 r = radius in cm h = height of water column in cm
Total Well Depth	(-) Water level	(=) Water Column							
6.07 m	(-) 3.168 m	(=) _____ m							
Water Column		(x) Conversion Factor	(=) Litres per 1 Well Volume						
_____ m		(x) _____	(=) _____ L						
Depth to product: _____ m	Product Thickness: _____ m	Verified with Bailer: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N							

Water Quality Parameters								
Beginning purge time: 12:04			Ending purge time: 12:24			Pump Intake Depth (mbtoc): 5.5		
Litres	Time	PH	Temp °C	Cond mS/cm	DO mg/L	Redox mV	Drawdown <10cm	Comments
1.0	12:10	8.10	24.9	9.86	2.25	80	3.19	cloudy/brown, no odour.
2.0	12:15	8.05	23.2	9.58	1.71	93	3.19	as above.
3.0	12:19	8.02	22.8	9.52	1.60	100	3.19	as above.
4.0	12:24	8.01	22.7	9.53	1.57	100	3.19	Slightly cloudy, no odour?

*pH, temp, cond readings not necessary if well is purged dry

Example Comments: clear / slightly cloudy / turbid / very turbid / no odour / slight odour / odour / strong odour / drawdown depth

4.0	Total Well Volume Actual amount of water prior to sampling	Sample time 12:25	Containers used 10
2001	Flow rate mL/minute	Did field parameters stabilise? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	Was the well dry purged? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N

Field QC Checks	
Was pre-cleaned sampling equipment used for these samples?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Was pre-cleaning sampling equipment properly protected from contamination?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Was documentation of equipment conducted?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Were air bubbles present in vials at time of collection?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA
Was sample for metals field filtered prior to preservations?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Duplicate sample collected?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
Rinsate blank collected?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N

4 x amber.
1 x metals.
4 x vials.
1 x PFOS
final DTW.

Duplicate sample ID _____

Rinsate blank ID _____



Groundwater - Well Sampling Data Form

Job Information

Date: 28/11/13	Time: arrive 11am. depart
Project Name: SUMMERTON	Project Number: 0224198
Site Location: LIDDELL - LP	Sampler: TH
Well ID: LP-MWOL	Weather: HOT

Equipment

Water quality equipment description: YSI 112101262		Interface probe number: Cotech IP #4261 30m	
Purging equipment: (please circle)	Bailer type: Plastic	Teflon	PID = 0.1
	Pump type: Peristaltic	Submersible	Micro-purge Amazon Other:

Well Gauging and Purge Volume Calculations

Casing Diameter	25mm	50mm	100mm	125mm	150mm	200mm	250mm	300mm	Volume of water in well / V = Pr x r x h V = volume in litres P = 3.14159 r = radius in cm h = height of water column in cm
Conversion Factor (volume in factor L/m)	0.49	1.96	7.85	12.3	17.7	31.4	49.1	70.7	
Total Well Depth	(-) Water level		(=) Water Column						
9.944 m	(-) 3.106 m		(=) 6.838 m						
	Water Column		(x) Conversion Factor		(=) Litres per 1 Well Volume				
	6.838 m		(x) 1.96		(=) 13.40 L				
Depth to product: _____ m	Product Thickness: _____ m		Verified with Bailer: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N						

Water Quality Parameters

Beginning purge time: 11:37:20		Ending purge time: 12:05		Pump Intake Depth (mbtoc):				
Litres	Time	PH	Temp °C	Cond µS/cm	DO mg/L	Redox mV	Drawdown <10cm	Comments
1.0	11:42:02	6.78	21.6	18293	1.02	63.7	3.75	Clear & no odour
2.0	11:47:20	6.81	21.8	18555	1.02	50.3	3.87	Clear & no odour
3.0	11:53:50	6.78	22.4	18085	0.70	35.6	3.915	clear & no odour
4.0	11:59:00	6.77	22.1	18001	0.67	27.8	4.030	clear & no odour
4.5	12:02:42	6.78	21.9	17610	0.73	23.3	4.055	clear & no odour
5.0	12:04:00	6.79	21.8	17800	0.70	21.1	4.055	clear & no odour

*pH, temp, cond readings not necessary if well is purged dry

Example Comments: clear / slightly cloudy / turbid / very turbid / no odour / slight odour / odour / strong odour / drawdown depth

5	Total Well Volume Actual amount of water prior to sampling	Sample time	12:10	Containers used	7
	Flow rate mL/minute	Did field parameters stabilise?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	Was the well dry purged?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N

Field QC Checks

Was pre-cleaned sampling equipment used for these samples?	Y	N	
Was pre-cleaning sampling equipment properly protected from contamination?	Y	N	
Was documentation of equipment conducted?	Y	N	NA
Were air bubbles present in vials at time of collection?	Y	N	NA
Was sample for metals field filtered prior to preservations?	Y	N	NA
Duplicate sample collected?	Y	N	Duplicate sample ID _____
Rinsate blank collected?	Y	N	Rinsate blank ID _____



Groundwater - Well Sampling Data Form

Job Information

Date: 28/11/13	Time: arrive 3:30pm depart 5pm
Project Name: SYMPHONY	Project Number: 224195
Site Location: LIDDELL-LP	Sampler: TH
Well ID: LP-MW02	Weather: hot - increasing winds

Equipment

Water quality equipment description: YSL 11K101262		Interface probe number: Geotech IP #4261 30m	
Purging equipment: (please circle)	Bailer type: Plastic	Teflon	PiO peak = 0.3
	Pump type: Peristaltic	Submersible	Micro-purge Amazon Other:

Well Gauging and Purge Volume Calculations

Casing Diameter	25mm	50mm	100mm	125mm	150mm	200mm	250mm	300mm	Volume of water in well / V = Pr x r x h V = volume in litres P = 3.14159 r = radius in cm h = height of water column in cm
Conversion Factor (volume in factor L/m)	0.49	1.96	7.85	12.3	17.7	31.4	49.1	70.7	
Total Well Depth	(-) Water level	(=) Water Column							
7.855 m	(-) 3.269 m	(=) 4.586 m							
Water Column		(x) Conversion Factor	(=) Litres per 1 Well Volume						
4.586 m		(x) 1.96	(=) 8.99 L						
Depth to product: - m		Product Thickness: - m		Verified with Bailer: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N					

Water Quality Parameters

Beginning purge time: 15:41:30		Ending purge time:					Pump Intake Depth (mbtoc):		Comments
Litres	Time	PH	Temp °C	Cond μ S/cm	DO mg/Lppm	Redox mV	Drawdown <10cm		
1.0	15:46:00	4.00	22.4	17297	4.91	195.8	3.920	clear, no odour	
2.0	15:50:00	4.13	22.3	17769	4.49	201.8	4.230	clear, no odour	
3.0	15:55:00	4.12	22.7	18854	4.01	205.1	4.430	clear, no odour	
4.0	16:01:20	4.13	22.8	19869	3.49	201.1	4.555	clear, no odour	
4.5	16:04:52	4.17	23.1	20209	2.97	222.4	4.565	clear, no odour	
5.0	16:08:35	4.13	23.9	21157	2.59	233.6	4.700	clear, no odour	
5.5	16:11:25	4.41	22.5	19928	2.69	224.4	4.790	clear, no odour	
6.0	16:13:25	4.43	22.7	20280	2.54	221.2	4.845	clear, no odour	
6.5	16:16:10	4.46	22.7	20450	2.35	235.3	4.910	clear, no odour	
7.0	16:18:40	4.41	22.7	20540	2.21	235.9	4.930	clear, no odour	

*pH, temp, cond readings not necessary if well is purged dry

Example Comments: clear / slightly cloudy / turbid / very turbid / no odour / slight odour / odour / strong odour / drawdown depth

7.0	Total Well Volume Actual amount of water prior to sampling	activated at	marked as off	Sample time 4:10pm	Containers used 17
	Flow rate mL/minute	Did field parameters stabilise? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA		Was the well dry purged? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N	

Field QC Checks

Was pre-cleaned sampling equipment used for these samples?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Was pre-cleaning sampling equipment properly protected from contamination?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Was documentation of equipment conducted?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
Were air bubbles present in vials at time of collection?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
Was sample for metals field filtered prior to preservations?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
Duplicate sample collected?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Duplicate sample ID
Rinsate blank collected?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Rinsate blank ID <u>RINSATE-281113-TH</u>



Groundwater - Well Sampling Data Form

Job Information

Date: 28/10/13	Time: arrive 2:15pm depart
Project Name: SMPH/104	Project Number: 0224198
Site Location: LIDDELL-LP.	Sampler: TH
Well ID: 12-MW103	Weather: HOT - INCREASING WIND

Equipment

Water quality equipment description: YSI 11101262		Interface probe number: Geotech IP #4261 30m	
Purging equipment: (please circle)	Bailer type: Plastic	Teflon	
	Pump type: Peristaltic	Submersible	Micro-purge Amazon Other:

PID peak = 0.4

Well Gauging and Purge Volume Calculations

Casing Diameter	25mm	50mm	100mm	125mm	150mm	200mm	250mm	300mm	Volume of water in well / V = Pr x r x h V = volume in litres P = 3.14159 r = radius in cm h = height of water column in cm
Conversion Factor (volume in factor L/m)	0.49	1.96	7.85	12.3	17.7	31.4	49.1	70.7	
Total Well Depth	(-) Water level	(=) Water Column							
5.863 m	(-) 2.214 m	(=) 3.649 m							
Water Column		(x) Conversion Factor	(=) Litres per 1 Well Volume						
3.649 m		(x) 1.96	(=) 7.15						
Depth to product: — m	Product Thickness: — m	Verified with Bailer: <input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N							

Water Quality Parameters

Beginning purge time: 14:22:24		Ending purge time:				Pump Intake Depth (mbtoc):		
Litres	Time	PH	Temp °C	Cond μ S/cm	DO mg/L	Redox mV	Drawdown <10cm	Comments
1.0	14:28:00	6.97	22.5	2878	0.13	42.2	NA	Minor brown turbidity, no odour
2.0	14:29:16	6.99	22.6	2871	0.11	35.8	3.220	" " " "
3.0	14:34:40	6.98	22.8	2926	0.08	19.7	3.225	Minor light brown turbidity, no odour
4.0	14:39:30	6.95	22.5	2985	0.06	3.3	3.220	" " " "
4.5	14:41:41	6.95	22.8	3042	0.08	-1.9	3.220	" " " "

*pH, temp, cond readings not necessary if well is purged dry

Example Comments: clear / slightly cloudy / turbid / very turbid / no odour / slight odour / odour / strong odour / drawdown depth

4.5	Total Well Volume Actual amount of water prior to sampling	Sample time 2:45pm	Containers used 7
	Flow rate mL/minute	Did field parameters stabilise? <input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> NA	Was the well dry purged? <input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N

Field QC Checks

Was pre-cleaned sampling equipment used for these samples?	Y	N	
Was pre-cleaning sampling equipment properly protected from contamination?	Y	N	
Was documentation of equipment conducted?	Y	N	NA
Were air bubbles present in vials at time of collection?	Y	N	NA
Was sample for metals field filtered prior to preservations?	Y	N	NA
Duplicate sample collected?	Y	N	Duplicate sample ID _____
Rinsate blank collected?	Y	N	Rinsate blank ID _____



Groundwater - Well Sampling Data Form

Job Information

Date: 28/11/13	Time: arrive 12:55pm depart
Project Name: SIMPHONY	Project Number: 0224198
Site Location: WODELL - LP	Sampler: TH
Well ID: LP_MW04	Weather: HOT

Equipment

Water quality equipment description: YI-11101262		Interface probe number: Geotech IP #4261 30m	
Purging equipment: (please circle)	Bailer type: Plastic	Teflon	PID _{peak} = 0.2
	Pump type: Peristaltic	Submersible	Micro-purge Amazon Other:

Well Gauging and Purge Volume Calculations

Casing Diameter	25mm	50mm	100mm	125mm	150mm	200mm	250mm	300mm	Volume of water in well / V = Pr x r x h V = volume in litres P = 3.14159 r = radius in cm h = height of water column in cm
Conversion Factor (volume in factor L/m)	0.49	1.96	7.85	12.3	17.7	31.4	49.1	70.7	
Total Well Depth	(-) Water level	(=) Water Column							
5.149 m	(-) 2.120 m	(=) 3.029 m							
Water Column		(x) Conversion Factor	(=) Litres per 1 Well Volume						
3.029 m		(x) 1.96	(=) 5.94 L						
Depth to product: — m	Product Thickness: — m	Verified with Bailer: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N							

Water Quality Parameters

Beginning purge time: 13:25:14		Ending purge time:				Pump Intake Depth (mbtoc):		
Litres	Time	PH	Temp °C	Cond μ S/cm	DO mg/Lppm	Redox mV	Drawdown <10cm	Comments
1.0	13:27:00	6.98	24.5	2829	0.24	-80.8	2.120	Odour, light minor grey turbidity
2.0	13:31:30	6.92	24.5	2720	0.07	-77.4	2.125	Odour, minor grey turbidity
3.0	13:37:00	6.90	24.6	2677	0.02	-74.6	2.125	Odour, minor grey turbidity
4.0	13:42:00	6.89	24.4	2625	0.03	-71.6	2.125	Odour, minor grey turbidity
4.5								

*pH, temp, cond readings not necessary if well is purged dry

Example Comments: clear / slightly cloudy / turbid / very turbid / no odour / slight odour / odour / strong odour / drawdown depth

4.0	Total Well Volume	Actual amount of water prior to sampling	Sample time	Containers used
	Flow rate	mL/minute	Did field parameters stabilise? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	Was the well dry purged? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N

Field QC Checks

Was pre-cleaned sampling equipment used for these samples?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Was pre-cleaning sampling equipment properly protected from contamination?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Was documentation of equipment conducted?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
Were air bubbles present in vials at time of collection?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA	
Was sample for metals field filtered prior to preservations?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
Duplicate sample collected?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	Duplicate sample ID <u> </u>
Rinsate blank collected?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Rinsate blank ID <u> </u>



Groundwater - Well Sampling Data Form

Job Information

Date: 28/11/13	Time: arrive 8.15am, depart
Project Name:	Project Number:
Site Location:	Sampler: TM
Well ID: LP_MW05	Weather:

Equipment

Water quality equipment description: K1-11K101262		Interface probe number: Contech IP #4261 3m	
Purging equipment: (please circle)	Bailer type: Plastic	Teflon	PID peak = 0.1
	Pump type: Peristaltic	Submersible	Amazon Other:

Well Gauging and Purge Volume Calculations

Casing Diameter	25mm	50mm	100mm	125mm	150mm	200mm	250mm	300mm	Volume of water in well / V $= Pr \times r \times h$ V = volume in litres $P = 3.14159$ $r = \text{radius in cm}$ $h = \text{height of water column in cm}$
Conversion Factor (volume in factor L/m)	0.49	1.96	7.85	12.3	17.7	31.4	49.1	70.7	
Total Well Depth	(-) Water level	(=) Water Column							
8.505 m	(-) 2.490 m	(=) 6.015 m							
Water Column		(x) Conversion Factor	(=) Litres per 1 Well Volume						
6.015 m		(x) 1.96	(=) 11.79 L						
Depth to product: — m		Product Thickness: — m		Verified with Bailer: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N					

Water Quality Parameters

Beginning purge time: 8:33:20		Ending purge time: 8:56:15		Pump Intake Depth (mbtc):				
Litres	Time	PH	Temp °C	Cond µS/cm	DO mg/Lppm	Redox mV	Drawdown <10cm	Comments
1.0	8:37:52	6.86	20.5	7995	1.78	79.5	2.755	clear, no odour.
2.0	8:43:02	6.82	20.7	8379	1.19	73.9	2.860	clear, no odour.
3.0	8:48:00	6.79	20.9	8784	0.70	70.5	2.925	clear, no odour.
4.0	8:53:00	6.76	21.0	8771	0.38	43.1	2.965	clear, no odour.
4.5	8:56:15	6.73	20.9	8695	0.24	40.3	2.985	clear, no odour.

*pH, temp, cond readings not necessary if well is purged dry

Example Comments: clear / slightly cloudy / turbid / very turbid / no odour / slight odour / odour / strong odour / drawdown depth

11.79 L	Total Well Volume	Actual amount of water prior to sampling	Sample time	9am	Containers used	7
	Flow rate	mL/minute	Did field parameters stabilise?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	Was the well dry purged?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N

Field QC Checks

Was pre-cleaned sampling equipment used for these samples?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Was pre-cleaning sampling equipment properly protected from contamination?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Was documentation of equipment conducted?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
Were air bubbles present in vials at time of collection?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
Was sample for metals field filtered prior to preservations?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
Duplicate sample collected?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Duplicate sample ID: NA
Rinsate blank collected?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Rinsate blank ID: NA



Groundwater - Well Sampling Data Form

Job Information	
Date: 11/12/13	Time: arrive 1544 depart 1652
Project Name: Symphony	Project Number: 0224198
Site Location: Liddell	Sampler: Sean Panza
Well ID: 1P-MW06	Weather: overcast

Equipment	
Water quality equipment description: 90FLMV U5443	Interface probe number: Geotech Interface Meter
Purging equipment: (please circle)	Bailer type: Plastic Teflon 30m 3978
Pump type: Peristaltic	Submersible Micro-purge Amazon Other:

Well Gauging and Purge Volume Calculations									
Casing Diameter	25mm	50mm	100mm	125mm	150mm	200mm	250mm	300mm	Volume of water in well / V = Pr x r x h V = volume in litres P = 3.14159 r = radius in cm h = height of water column in cm
Conversion Factor (volume in factor L/m)	0.49	1.96	7.85	12.3	17.7	31.4	49.1	70.7	
Total Well Depth	(-) Water level	(=) Water Column							
4.630 m	(-) 1.273 m	(=) _____ m							
Water Column		(x) Conversion Factor	(=) Litres per 1 Well Volume						
_____ m		(x) _____	(=) _____ L						
Depth to product: _____ m	Product Thickness: _____ m	Verified with Bailer:	<input type="checkbox"/> Y <input type="checkbox"/> N						

Water Quality Parameters									
Beginning purge time: 1351			Ending purge time: 1631				Pump Intake Depth (mbtoc): ~3.5		
Litres	Time	PH	Temp °C	Cond mS/cm	DO mg/L	Redox mV	Drawdown <10cm	Comments	
1.0	1556	7.07	23.2	19.51	4.02	111	1.61	Clear, no sheen, no odour, Pumping rate slowed	
1.5	1601	7.10	23.3	19.47	2.90	110	1.70	As above	
2.0	1606	7.11	23.5	19.66	3.39	150	1.72	As above	
2.5	1611	7.12	22.6	19.69	3.64	264	1.74	As above	
3.0	1616	7.12	22.4	19.68	3.68	335	1.76	As above	
3.5	1621	7.13	22.2	19.57	3.56	410	1.79	As above	
4.0	1626	7.14	22.3	19.63	3.50	407	1.82	As above	
4.5	1631	7.15	22.4	19.65	3.46	415	1.85	As above	
Sampled at 1641 (allow 10 mins for recharge)									
*pH, temp, cond readings not necessary if well is purged dry						Example Comments: clear / slightly cloudy / turbid / very turbid / no odour / slight odour / odour / strong odour / drawdown depth			
4.5L		Total Well Volume			Sample time: 1641		Containers used: 2 amber 3 vials 1 ultra trace plastic		
200 → 100		Actual amount of water prior to sampling			Did field parameters stabilise? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA		Was the well dry purged? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N		
		Flow rate mL/minute							

Field QC Checks	
Was pre-cleaned sampling equipment used for these samples?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Was pre-cleaning sampling equipment properly protected from contamination?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Was documentation of equipment conducted?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Were air bubbles present in vials at time of collection?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA
Was sample for metals field filtered prior to preservations?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Duplicate sample collected?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
Rinsate blank collected?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
Duplicate sample ID _____	
Rinsate blank ID _____	

Final Water level: 2.055



Groundwater - Well Sampling Data Form

Job Information	
Date: 10/12/13	Time: arrive 1435 depart 1518
Project Name: Symphony	Project Number: 0224198
Site Location: Goldell	Sampler: Sean Penzo
Well ID: LQ MW01	Weather: Fine, windy

Equipment	
Water quality equipment description: 90FLMU U5443	Interface probe number: Geotech Interface Meter 30m 3978
Purging equipment: (please circle)	Bailer type: Plastic Teflon
	Pump type: <u>Peristaltic</u> Submersible Micro-purge Amazon Other:

Well Gauging and Purge Volume Calculations									
Casing Diameter	25mm	50mm	100mm	125mm	150mm	200mm	250mm	300mm	Volume of water in well / V = Pr x r x h
Conversion Factor (volume in factor L/m)	0.49	1.96	7.85	12.3	17.7	31.4	49.1	70.7	V = volume in litres P = 3.14159 r = radius in cm h = height of water column in cm
Total Well Depth	(-) Water level	(=) Water Column							
5.149 m	(-) 1.927 m	(=) _____ m							
Water Column		(x) Conversion Factor	(=) Litres per 1 Well Volume						
_____ m		(x) _____	(=) _____ L						
Depth to product: _____ m	Product Thickness: _____ m	Verified with Bailer:	<input type="checkbox"/> Y	<input type="checkbox"/> N					

Water Quality Parameters								
Beginning purge time: 1436			Ending purge time: 1506			Pump Intake Depth (mbtoc): 4.15		
Litres	Time	PH	Temp °C	Cond mS/cm	DO mg/L	Redox mV	Drawdown <10cm	Comments
1.0	1441	7.43	25.4	3.29	1.14	-151	1.93	Slightly turbid yellow, no smell, slight fish like odour
2.0	1446	7.49	24.9	3.93	0.67	-164	1.93	As above
3.0	1451	7.49	24.6	3.87	0.52	-169	1.93	As above
4.0	1456	7.50	24.5	3.37	0.42	-172	1.93	As above, slightly cloudy
5.0	1459	7.54	24.3	3.29	0.45	-168	1.93	As above
6.0	1506	7.52	24.3	3.22	0.46	-163	1.93	As above
								Sampled at 1507

*pH, temp, cond readings not necessary if well is purged dry

Example Comments: clear / slightly cloudy / turbid / very turbid / no odour / slight odour / odour / strong odour / drawdown depth

6.0 L	Total Well Volume	Actual amount of water prior to sampling	Sample time: 1507	Containers used: 2 amber, 3 vials, 1 other trace metals
200	Flow rate	mL/minute	Did field parameters stabilise? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	Was the well dry purged? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N

Field QC Checks	
Was pre-cleaned sampling equipment used for these samples?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Was pre-cleaning sampling equipment properly protected from contamination?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Was documentation of equipment conducted?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Were air bubbles present in vials at time of collection?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA
Was sample for metals field filtered prior to preservations?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Duplicate sample collected?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA
Rinsate blank collected?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA

Final Water Level: 1.929

Duplicate sample ID _____

Rinsate blank ID _____



Groundwater - Well Sampling Data Form

Job Information	
Date: 10/12/13	Time: arrive 1220 depart 1315
Project Name: Symphony	Project Number: 0224198
Site Location: Liddle	Sampler: Sean Fenag
Well ID: LQ-mw03	Weather: Fine

Equipment	
Water quality equipment description: 90FLMU V5443	Interface probe number: Geotech Interface Meter 30m 3978
Purging equipment: (please circle)	Bailer type: Plastic Teflon
	Pump type: Peristaltic Submersible Micro-purge Amazon Other:

Well Gauging and Purge Volume Calculations									
Casing Diameter	25mm	50mm	100mm	125mm	150mm	200mm	250mm	300mm	Volume of water in well / V = Pr x r x h V = volume in litres P = 3.14159 r = radius in cm h = height of water column in cm
Conversion Factor (volume in factor L/m)	0.49	1.96	7.85	12.3	17.7	31.4	49.1	70.7	
Total Well Depth	(-) Water level	(=) Water Column							
4.858 m	(-) 1.344 m	(=) _____ m							
Water Column		(x) Conversion Factor	=) Litres per 1 Well Volume						
_____ m		(x) _____	=) _____ L						
Depth to product: _____ m	Product Thickness: _____ m	Verified with Bailer:		<input type="checkbox"/> Y <input type="checkbox"/> N					

Water Quality Parameters								
Beginning purge time: 1231			Ending purge time: 1301			Pump Intake Depth (mbtoc): 3.8		
Litres	Time	PH	Temp °C	Cond mS/cm	DO mg/L	Redox mV	Drawdown <10cm	Comments
1.0	1236	7.30	26.2	4.52	1.32	-196	1.35	Water, no sheen, slight fish like odour
2.0	1241	7.28	25.1	4.39	0.74	-209	1.35	As above
3.0	1246	7.26	25.3	4.12	0.53	-206	1.35	As above
4.0	1251	7.24	25.4	4.03	0.52	-204	1.35	As above
5.0	1301	7.24	25.6	3.98	0.48	-206	1.35	As above
Sampled at 1302								

*pH, temp, cond readings not necessary if well is purged dry

Example Comments: clear / slightly cloudy / turbid / very turbid / no odour / slight odour / odour / strong odour / drawdown depth

5.0 L	Total Well Volume	Actual amount of water prior to sampling	Sample time	1302	Containers used	2 amber 3 vials 1 ultra trace metal/s
200	Flow rate	mL/minute	Did field parameters stabilise?	<input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/> NA	Was the well dry purged?	<input type="radio"/> Y <input checked="" type="radio"/> N

Field QC Checks	
Was pre-cleaned sampling equipment used for these samples?	<input checked="" type="radio"/> Y <input type="radio"/> N
Was pre-cleaning sampling equipment properly protected from contamination?	<input checked="" type="radio"/> Y <input type="radio"/> N
Was documentation of equipment conducted?	<input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/> NA
Were air bubbles present in vials at time of collection?	<input type="radio"/> Y <input checked="" type="radio"/> N <input type="radio"/> NA
Was sample for metals field filtered prior to preservations?	<input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/> NA
Duplicate sample collected?	<input type="radio"/> Y <input checked="" type="radio"/> N
Rinsate blank collected?	<input checked="" type="radio"/> Y <input type="radio"/> N

Final Water level: 1.358

Duplicate sample ID _____

Rinsate blank ID R01-101213-SP



Groundwater - Well Sampling Data Form

Job Information	
Date: 12/12/13	Time: arrive 0947 depart 1052
Project Name: Symphony	Project Number: 0224198
Site Location: Liddell	Sampler: Sean Penza
Well ID: LQ-MW05	Weather: Fine

Equipment	
Water quality equipment description: 90 FLMV U5443	Interface probe number: Geotech Interface Meter 30m 3978
Purging equipment: (please circle)	Bailer type: Plastic Teflon
	Pump type: Peristaltic Submersible Micro-purge Amazon Other:

Well Gauging and Purge Volume Calculations									
Casing Diameter	25mm	50mm	100mm	125mm	150mm	200mm	250mm	300mm	Volume of water in well / V = Pr x r x h
Conversion Factor (volume in factor L/m)	0.49	1.96	7.85	12.3	17.7	31.4	49.1	70.7	V = volume in litres P = 3.14159 r = radius in cm h = height of water column in cm
Total Well Depth	(-) Water level	(=) Water Column							
9.906 m	(-) 8.852 m	(=) _____ m							
		Water Column	(x) Conversion Factor	(=) Litres per 1 Well Volume					
		_____ m	(x) _____	(=) _____ L					
Depth to product: _____ m	Product Thickness: _____ m	Verified with Bailer:	<input type="checkbox"/> Y <input type="checkbox"/> N						

Water Quality Parameters								
Beginning purge time: 0956			Ending purge time: 1024			Pump Intake Depth (mbtoc): ~9.6		
Litres	Time	PH	Temp °C	Cond mS/cm	DO mg/L	Redox mV	Drawdown <10cm	Comments
0.5	1004	7.47	26.2	13.62	2.60	151	8.98	Slightly cloudy, no sheen, no odour
1.0	1008	7.47	25.4	13.87	1.88	146	9.05	As above
1.5	1010	7.45	25.8	13.76	1.83	148	9.12	As above
2.0	1019	7.45	26.0	13.67	1.77	148	9.18	As above
2.5	1024	7.45	26.1	13.82	1.68	147	9.26	As above
Sampled at 1034 (allow 10 mins for recharge)								
*pH, temp, cond readings not necessary if well is purged dry						Example Comments: clear / slightly cloudy / turbid / very turbid / no odour / slight odour / odour / strong odour / drawdown depth		

2.54	Total Well Volume Actual amount of water prior to sampling	Sample time: 1034	Containers used: 1 amber 3 white 1 with trace metals
100	Flow rate mL/minute	Did field parameters stabilise? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	Was the well dry purged? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N

Field QC Checks	
Was pre-cleaned sampling equipment used for these samples?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Was pre-cleaning sampling equipment properly protected from contamination?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Was documentation of equipment conducted?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Were air bubbles present in vials at time of collection?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA
Was sample for metals field filtered prior to preservations?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Duplicate sample collected?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
Rinsate blank collected?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N

Final Water Level: 9.483

Duplicate sample ID _____

Rinsate blank ID _____



Groundwater - Well Sampling Data Form

Job Information	
Date: 10/12/13	Time: arrive 1321 depart 1410
Project Name: Symphony	Project Number: 0224198
Site Location: Liddell	Sampler: Sean Penza
Well ID: LA_MW06	Weather: Fine

Equipment	
Water quality equipment description: 90FLMV 05443	Interface probe number: Geotech Interface Meter
Purging equipment: (please circle)	Bailer type: Plastic → Sample Pump type: Peristaltic
	Submersible: 30m 3978 Micro-purge: Amazon Other:

Well Gauging and Purge Volume Calculations									
Casing Diameter	25mm	50mm	100mm	125mm	150mm	200mm	250mm	300mm	Volume of water in well / V = Pr x r x h V = volume in litres P = 3.14159 r = radius in cm h = height of water column in cm
Conversion Factor (volume in factor L/m)	0.49	1.96	7.85	12.3	17.7	31.4	49.1	70.7	
Total Well Depth	(-) Water level	(=) Water Column							
9.921 m	(-) 8.805 m	(=) _____ m							
Water Column		(x) Conversion Factor	(=) Litres per 1 Well Volume						
_____ m		(x) _____	(=) _____ L						
Depth to product: _____ m	Product Thickness: _____ m	Verified with Bailer:	<input type="checkbox"/> Y <input type="checkbox"/> N						

Water Quality Parameters								
Beginning purge time: 1332			Ending purge time: 1339			Pump Intake Depth (mbtoc): ~9.5		
Litres	Time	PH	Temp °C	Cond mS/cm	DO mg/L	Redox mV	Drawdown <10cm	Comments
0.5	1337	7.41	33.0	8.00	2.04	49	9.32	slightly cloudy, no smell, no odour
1.0	1342	No water being pumped → too little water						
0.5	1347	Bailer sample collected at 1340						

*pH, temp, cond readings not necessary if well is purged dry

Example Comments: clear / slightly cloudy / turbid / very turbid / no odour / slight odour / odour / strong odour / drawdown depth

0.5	Total Well Volume Actual amount of water prior to sampling	Sample time: 1340	Containers used: 2 amber, 3 white
—	Flow rate mL/minute	Did field parameters stabilise? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA	Was the well dry purged? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N

Field QC Checks	
Was pre-cleaned sampling equipment used for these samples?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Was pre-cleaning sampling equipment properly protected from contamination?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Was documentation of equipment conducted?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Were air bubbles present in vials at time of collection?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA
Was sample for metals field filtered prior to preservations?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Duplicate sample collected?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
Rinsate blank collected?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N

Final water level: 9.364

Duplicate sample ID _____

Rinsate blank ID _____



Groundwater - Well Sampling Data Form

Job Information	
Date: 10/12/13	Time: arrive 0955 depart 1051
Project Name: Symphony	Project Number: 022 4198
Site Location: Liddell	Sampler: Sean Penza
Well ID: LQ-MW07	Weather: Fine, windy

Equipment	
Water quality equipment description: 90FLMV 0543	Interface probe number: Grotech Interface meter 307 3978
Purging equipment: (please circle)	Bailer type: Plastic Teflon
	Pump type: Peristaltic Submersible Micro-purge Amazon Other:

Well Gauging and Purge Volume Calculations									
Casing Diameter	25mm	50mm	100mm	125mm	150mm	200mm	250mm	300mm	Volume of water in well / V = Pr x r x h V = volume in litres P = 3.14159 r = radius in cm h = height of water column in cm
Conversion Factor (volume in factor L/m)	0.49	1.96	7.85	12.3	17.7	31.4	49.1	70.7	
Total Well Depth	(-) Water level	(=) Water Column							
9.844 m	(-) 1.165 m	(=) _____ m							
		Water Column	(x) Conversion Factor	(=) Litres per 1 Well Volume					
		_____ m	(x) _____	(=) _____					
Depth to product: _____ m	Product Thickness: _____ m	Verified with Bailer:	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N						

Water Quality Parameters									
Beginning purge time: 1005			Ending purge time: 1030			Pump Intake Depth (mbtoc): ~ 8.8			
Litres	Time	PH	Temp °C	Cond mS/cm	DO mg/L	Redox mV	Drawdown <10cm	Comments	
1.0	1010	6.78	25.3	13.19	1.29	-191	1.60	Slightly cloudy, no green fish like odour. Slow recharge, pumping rate slowed.	
1.5	1015	6.76	25.3	13.28	0.94	-193	1.80	As above	
2.0	1020	6.75	25.3	13.43	0.61	-200	2.06	As above	
2.5	1025	6.75	25.3	13.49	0.50	-202	2.26	As above	
3.0	1030	6.75	25.4	13.51	0.48	-205	2.49	As above	
Sampled at 1040 (Allow 10mins for recharge)									
*pH, temp, cond readings not necessary if well is purged dry						Example Comments: clear / slightly cloudy / turbid / very turbid / no odour / slight odour / odour / strong odour / drawdown depth			
3.0L		Total Well Volume		Sample time 1040		Containers used 2 amber 3 vials 1 ultra trace metals			
200 → 100		Actual amount of water prior to sampling		Flow rate mL/minute		Did field parameters stabilise? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA			
							Was the well dry purged? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N		

Field QC Checks			
Was pre-cleaned sampling equipment used for these samples?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	
Was pre-cleaning sampling equipment properly protected from contamination?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	
Was documentation of equipment conducted?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	NA
Were air bubbles present in vials at time of collection?	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	NA
Was sample for metals field filtered prior to preservations?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	NA
Duplicate sample collected?	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	Duplicate sample ID _____
Rinsate blank collected?	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	Rinsate blank ID _____

Final water level: 2.796



Groundwater - Well Sampling Data Form

Job Information	
Date: 18-12-2013	Time: arrive 0700 depart 0750
Project Name: Symphony	Project Number: 0224198
Site Location: Liddell	Sampler: Sam Campbell
Well ID: LR_MW01	Weather: Overcast

Equipment	
Water quality equipment description: 751-MW02-842	Interface probe number: Solinst 55191
Purging equipment: (please circle)	Bailer type: Plastic Teflon
	Pump type: Peristaltic Submersible Micro-purge Amazon Other:

Well Gauging and Purge Volume Calculations									
Casing Diameter	25mm	50mm	100mm	125mm	150mm	200mm	250mm	300mm	Volume of water in well / V = Pr x r x h V = volume in litres P = 3.14159 r = radius in cm h = height of water column in cm
Conversion Factor (volume in factor L/m)	0.49	1.96	7.85	12.3	17.7	31.4	49.1	70.7	
Total Well Depth	(-) Water level	(=) Water Column							
14.940 m	(-) 14.239 m	(=) ~ 0.6 m							
	Water Column	(x) Conversion Factor	(=) Litres per 1 Well Volume						
	~ 0.6 m	(x) 1.96	(=) ~ 1.2						
Depth to product: _____ m	Product Thickness: _____ m	Verified with Bailer: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N							

Water Quality Parameters									
Beginning purge time: 0710			Ending purge time: 0730			Pump Intake Depth (mbtoc):			
Litres	Time	PH	Temp °C	Cond mS/cm	DO mg/L	Redox mV	Drawdown <10cm	Comments	
								- little water in well therefore failing to pump sufficient amounts to sample.	
*pH, temp, cond readings not necessary if well is purged dry							Example Comments: clear / slightly cloudy / turbid / very turbid / no odour / slight odour / odour / strong odour / drawdown depth		
Total Well Volume Actual amount of water prior to sampling			Sample time: _____			Containers used: _____			
Flow rate mL/minute			Did field parameters stabilise? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA			Was the well dry purged? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N			

Field QC Checks									
Was pre-cleaned sampling equipment used for these samples?	Y	N							
Was pre-cleaning sampling equipment properly protected from contamination?	Y	N							
Was documentation of equipment conducted?	Y	N	NA						
Were air bubbles present in vials at time of collection?	Y	N	NA						
Was sample for metals field filtered prior to preservations?	Y	N	NA						
Duplicate sample collected?	Y	N	Duplicate sample ID		_____				
Rinsate blank collected?	Y	N	Rinsate blank ID		_____				



Groundwater - Well Sampling Data Form

Job Information	
Date: 19/12/13	Time: arrive 10am depart 10:30am
Project Name: SunPharm	Project Number: 0224198
Site Location: LIDELL	Sampler: TH
Well ID: LR-MW01	Weather: HOT & CLEAR

Equipment	
Water quality equipment description:	Interface probe number: Geotech ID 30m 4261
Purging equipment: (please circle)	Bailer type: Plastic Teflon stainless steel
	Pump type: Peristaltic Submersible Micro-purge Amazon Other:

Well Gauging and Purge Volume Calculations									
Casing Diameter	25mm	50mm	100mm	125mm	150mm	200mm	250mm	300mm	Volume of water in well / V = Pr x r x h V = volume in litres P = 3.14159 r = radius in cm h = height of water column in cm
Conversion Factor (volume in factor L/m)	0.49	1.96	7.85	12.3	17.7	31.4	49.1	70.7	
Total Well Depth (-) Water level (=) Water Column	14.670 m (-) 14.210 m (=) _____ m Water Column (x) Conversion Factor (=) Litres per 1 Well Volume _____ m (x) _____ (=) _____ L								
Depth to product: _____ m	Product Thickness: _____ m	Verified with Bailer:		<input type="checkbox"/> Y <input type="checkbox"/> N					

Water Quality Parameters								
Beginning purge time:			Ending purge time:				Pump Intake Depth (mbtoc):	
Litres	Time	PH	Temp °C	Cond mS/cm	DO mg/L	Redox mV	Drawdown <10cm	Comments
*pH, temp, cond readings not necessary if well is purged dry								
Example Comments: clear / slightly cloudy / turbid / very turbid / no odour / slight odour / odour / strong odour / drawdown depth								

INSUFFICIENT VOLUME TO LOW FLOW SAMPLE
 QTB SAMPLE COLLECTED

Total Well Volume Actual amount of water prior to sampling	Sample time _____	Containers used <u>5</u>
Flow rate mL/minute	Did field parameters stabilise? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	Was the well dry purged? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N

Field QC Checks	
Was pre-cleaned sampling equipment used for these samples?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Was pre-cleaning sampling equipment properly protected from contamination?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Was documentation of equipment conducted?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Were air bubbles present in vials at time of collection?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Was sample for metals field filtered prior to preservations?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Duplicate sample collected?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Rinsate blank collected?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Duplicate sample ID	<u>11</u>
Rinsate blank ID	<u>11</u>



Groundwater - Well Sampling Data Form

Job Information	
Date: <u>11/12/13</u>	Time: arrive <u>1325</u> depart <u>1425</u>
Project Name: <u>Symphony</u>	Project Number: <u>0224198</u>
Site Location: <u>Uddell</u>	Sampler: <u>Sean Penz</u>
Well ID: <u>LR-MW03</u>	Weather: <u>fine</u>

Equipment	
Water quality equipment description: <u>90FLMV 05443</u>	Interface probe number: <u>Geotech Interface meter</u>
Purging equipment: (please circle)	Bailer type: <u>Plastic</u> Teflon
	Pump type: <u>Peristaltic</u> Submersible Micro-purge Amazon Other:
	<u>30m 3978</u>

Well Gauging and Purge Volume Calculations									
Casing Diameter	25mm	50mm	100mm	125mm	150mm	200mm	250mm	300mm	Volume of water in well / V = Pr x r x h V = volume in litres P = 3.14159 r = radius in cm h = height of water column in cm
Conversion Factor (volume in factor L/m)	0.49	1.96	7.85	12.3	17.7	31.4	49.1	70.7	
Total Well Depth	(-) Water Level	(=) Water Column							
<u>11.020</u> m	(-) <u>4.078</u> m	(=) _____ m							
Water Column		(x) Conversion Factor	(=) Litres per 1 Well Volume						
_____ m		(x) _____	(=) _____ L						
Depth to product: _____ m	Product Thickness: _____ m	Verified with Bailer:	<input type="checkbox"/> Y	<input type="checkbox"/> N					

Water Quality Parameters								Comments
Beginning purge time: <u>1334</u>		Ending purge time: <u>1359</u>		Pump Intake Depth (mbtoc): <u>~9.0</u>				
Litres	Time	PH	Temp °C	Cond mS/cm	DO mg/L	Redox mV	Drawdown <10cm	
1.0	1339	6.92	23.1	10.35	1.24	-150	4.54	Slightly turbid brown, no smell, organic like slow recharge, pumping rate slowed.
1.5	1344	6.94	23.5	10.45	0.72	-152	4.79	As above
2.0	1349	6.96	24.7	10.49	0.58	-161	5.04	As above
2.5	1354	6.97	24.8	10.50	0.56	-164	5.26	As above slightly cloudy
3.0	1359	6.98	24.7	10.44	0.53	-169	5.46	As above
								Sampled at 1409 (Allow 10 mins for recharge)

*pH, temp, cond readings not necessary if well is purged dry

Example Comments: clear / slightly cloudy / turbid / very turbid / no odour / slight odour / odour / strong odour / drawdown depth

<u>3.0L</u>	Total Well Volume Actual amount of water prior to sampling	Sample time <u>1409</u>	Containers used <u>2 90ml, 3 vials, ultra trace metals</u>
<u>200 → 100</u>	Flow rate mL/minute	Did field parameters stabilise? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	Was the well dry purged? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N

Field QC Checks	
Was pre-cleaned sampling equipment used for these samples?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Was pre-cleaning sampling equipment properly protected from contamination?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Was documentation of equipment conducted?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Were air bubbles present in vials at time of collection?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA
Was sample for metals field filtered prior to preservations?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Duplicate sample collected?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
Rinsate blank collected?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
Duplicate sample ID _____	
Rinsate blank ID _____	

Final Water Level: 5.62



Groundwater - Well Sampling Data Form

Job Information	
Date: 11/12/13	Time: arrive 1433 depart 1530
Project Name: Symphony	Project Number: 0224198
Site Location: Liddell	Sampler: Sean Penza
Well ID: LR-MW04	Weather: fine

Equipment	
Water quality equipment description: 90PCMV USA43	Interface probe number: Geotech Interface meter 30m 3978
Purging equipment: (please circle)	Bailer type: Plastic Teflon
	Pump type: Peristaltic Submersible Micro-purge Amazon Other:

Well Gauging and Purge Volume Calculations									
Casing Diameter	25mm	50mm	100mm	125mm	150mm	200mm	250mm	300mm	Volume of water in well / V = Pr x r x h V = volume in litres P = 3.14159 r = radius in cm h = height of water column in cm
Conversion Factor (volume in factor L/m)	0.49	1.96	7.85	12.3	17.7	31.4	49.1	70.7	
Total Well Depth	(-) Water level	(=) Water Column							
10.935 m	(-) 7.823 m	(=) _____ m							
		Water Column	(x) Conversion Factor	(=) Litres per 1 Well Volume					
		_____ m	(x) _____	(=) _____ L					
Depth to product: _____ m	Product Thickness: _____ m	Verified with Bailer:	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N						

Water Quality Parameters									
Beginning purge time: 1441			Ending purge time: 1506				Pump Intake Depth (mbtoc): ~10.0		
Litres	Time	PH	Temp °C	Cond mS/cm	DO mg/L	Redox mV	Drawdown <10cm	Comments	
1.0	1446	7.28	24.9	16.16	2.10	22	8.05	slightly cloudy, no steel, no odour slow recharge, pumping rate slowed	
1.5	1451	7.27	23.7	16.09	1.04	26	8.18	As above	
2.0	1456	7.27	24.0	16.11	0.80	28	8.27	clear, no steel, no odour	
2.5	1501	7.27	24.2	16.13	0.75	29	8.37	As above	
3.0	1506	7.25	24.4	16.16	0.71	34	8.46	As above	
								sampled at 1516 (Allow 10 mins for recharge)	
*pH, temp, cond readings not necessary if well is purged dry						Example Comments: clear / slightly cloudy / turbid / very turbid / no odour / slight odour / odour / strong odour / drawdown depth			
3.0 L		Total Well Volume			Sample time 1516		Containers used 2 amber 3 vials 1 ultra trace metals		
200 → 100		Actual amount of water prior to sampling			Did field parameters stabilise? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA		Was the well dry purged? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N		
		Flow rate mL/minute							

Field QC Checks				
Was pre-cleaned sampling equipment used for these samples?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N		
Was pre-cleaning sampling equipment properly protected from contamination?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N		
Was documentation of equipment conducted?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> NA	Final Water Level: 8.512
Were air bubbles present in vials at time of collection?	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	<input type="checkbox"/> NA	
Was sample for metals field filtered prior to preservations?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> NA	
Duplicate sample collected?	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	Duplicate sample ID _____	
Rinsate blank collected?	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	Rinsate blank ID _____	