

## Certificate of Analysis

Report NO: SAL-2018-12282	Sample Description: Water samples in 2L plastic bottles
Customer: Connect Saint Helena Ltd	No of Samples: 23
Address: Seales Corner Jamestown St Helena Island STHL 1ZZ	Sample Condition: Cold
Contact: Leon De Wet	Date Received: 21-Feb-2018
Phone: +(290)22255 Fax:	Date Completed: 13-Mar-18
Email: Leon.deWet@connect.co.sh	Order No: 103297

Sample Disposal	a) Liquid Sample		b) Solid Sample				
	One Month - After issuing of final Certificate of Analysis		Three Months - After issuing of final Certificate of Analysis				
Lab No	1812282-82766FW	1812282-82767FW	1812282-82768FW	1812282-82769FW			
Sample Date	2018-02-02	2018-02-02	2018-02-02	2018-02-02			
Sample ID	Grape Vine 1	Grape Vine 2	Bottom Wells 3	Leggs Gut 4			
Analysis	Unit	% Uncertainty	SANS241:2015				
Potassium as K Dissolved	mg/l	8.1	NA	0.9	1.2	1.1	1.6
Sodium as Na Dissolved	mg/l	6.9	≤200	29	19	24	24
Calcium as Ca Dissolved	mg/l	6.1	NA	3.8	3.3	3.5	4.8
Magnesium as Mg Dissolved	mg/l	5.2	NA	5.0	4.0	4.1	3.7
Ammonia as N	mg/l	8.1	≤1.5	0.09	0.09	0.09	0.08
Sulphate as SO <sub>4</sub> Dissolved	mg/l	4.0	≤500	2.3	4.6	4.7	5.5
Chloride as Cl Dissolved	mg/l	5.9	≤300	46	31	40	38
Alkalinity as CaCO <sub>3</sub>	mg/l	2.9	NA	22	17	17	20
Nitrate + Nitrite as N *	mg/l	8.4	≤11	<0.1	<0.1	<0.1	<0.1
ortho Phosphate as P	mg/l		NA	<0.05	<0.05	<0.05	<0.05
Electrical Conductivity	mS/m (25°C)	6.2	≤170	20	15	19	18
pH (Lab) (20°C)		0.7	≥5 to ≤9.7	7.5	7.4	6.9	7.3
Total dissolved salts (Calc) *	mg/l	NA	≤1200	128	96	122	115
CATIONS meq/L *		NA	NA	1.9	1.4	1.6	1.6
ANIONS meq/L *		NA	NA	1.8	1.3	1.6	1.6
Aluminium as Al Dissolved	mg/l	13.3	≤0.3	0.02	0.04	0.06	0.02
Boron as B Dissolved	mg/l	12.5	≤2.4	0.04	0.03	0.04	0.03
Copper as Cu Dissolved	mg/l	8.8	≤2	<0.01	<0.01	<0.01	<0.01
Iron as Fe Dissolved	mg/l	10.9	≤0.3	0.38	0.17	0.46	0.22

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	1812282-82766FW 2018-02-02 Grape Vine 1	1812282-82767FW 2018-02-02 Grape Vine 2	1812282-82768FW 2018-02-02 Bottom Wells 3	1812282-82769FW 2018-02-02 Leggs Gut 4
Lead as Pb Dissolved      µg/l      16.5      ≤10	<0.5	<0.5	<0.5	<0.5
Manganese as Mn Dissolved      mg/l      12.9      ≤0.1	<0.01	<0.01	0.02	<0.01
Zinc as Zn Dissolved      mg/l      9.3      ≤5	<0.01	<0.01	<0.01	<0.01
Bicarbonate as HCO <sub>3</sub> Dissolved      µmol/L      NA	0.2	0.2	0.2	0.2
(Calc) in µmol/L *				
Bicarbonate as HCO <sub>3</sub> Dissolved      mg/L      NA	0.0	0.0	0.0	0.0
(Calc) mg/L *				

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<b>Lab No</b>	1812282-82770FW	1812282-82771FW	1812282-82772FW	1812282-82773FW
<b>Sample Date</b>	2018-02-02	2018-02-02	2018-02-02	2018-02-02
<b>Sample ID</b>	Upper Wells 5	Willowbank 6	Jimmy Lots 7	Levelwood 8

Analysis	Unit	% Uncertainty	SANS241:2015	1812282-82770FW	1812282-82771FW	1812282-82772FW	1812282-82773FW
Potassium as K Dissolved	mg/l	8.1	NA	1.2	1.8	1.8	1.8
Sodium as Na Dissolved	mg/l	6.9	≤200	22	42	25	26
Calcium as Ca Dissolved	mg/l	6.1	NA	4.1	11	6.5	6.4
Magnesium as Mg Dissolved	mg/l	5.2	NA	4.1	9.8	5.6	4.9
Ammonia as N	mg/l	8.1	≤1.5	0.07	0.08	0.09	0.08
Sulphate as SO <sub>4</sub> Dissolved	mg/l	4.0	≤500	2.6	12	5.1	8.1
Chloride as Cl Dissolved	mg/l	5.9	≤300	37	58	35	43
Alkalinity as CaCO <sub>3</sub>	mg/l	2.9	NA	22	61	36	22
Nitrate + Nitrite as N *	mg/l	8.4	≤11	<0.1	0.4	<0.1	<0.1
ortho Phosphate as P	mg/l		NA	0.06	0.12	0.07	0.10
Electrical Conductivity	mS/m (25°C)	6.2	≤170	18	34	20	21
pH (Lab) (20°C)		0.7	≥5 to ≤9.7	7.3	7.4	7.6	7.5
Total dissolved salts (Calc) *	mg/l	NA	≤1200	115	218	128	134
CATIONS meq/L *		NA	NA	1.6	3.2	1.9	1.9
ANIONS meq/L *		NA	NA	1.5	3.2	1.8	1.8
Aluminium as Al Dissolved	mg/l	13.3	≤0.3	0.02	<0.01	0.03	0.07
Boron as B Dissolved	mg/l	12.5	≤2.4	0.03	0.05	0.03	0.04
Copper as Cu Dissolved	mg/l	8.8	≤2	<0.01	<0.01	<0.01	<0.01
Iron as Fe Dissolved	mg/l	10.9	≤0.3	0.63	0.04	0.08	0.15
Lead as Pb Dissolved	µg/l	16.5	≤10	<0.5	<0.5	<0.5	<0.5

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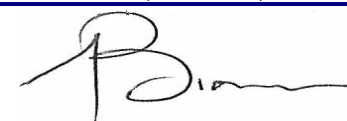
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	1812282-82770FW 2018-02-02 Upper Wells 5	1812282-82771FW 2018-02-02 Willowbank 6	1812282-82772FW 2018-02-02 Jimmy Lots 7	1812282-82773FW 2018-02-02 Levelwood 8		
Manganese as Mn Dissolved mg/l	12.9	≤0.1	0.02	0.03	<0.01	<0.01
Zinc as Zn Dissolved mg/l	9.3	≤5	<0.01	<0.01	<0.01	<0.01
Bicarbonate as HCO <sub>3</sub> Dissolved (Calc) in μmol/L *		NA	0.2	0.6	0.4	0.2
Bicarbonate as HCO <sub>3</sub> Dissolved (Calc) mg/L *		NA	0.0	0.0	0.0	0.0

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Lab No	Sample Date	Sample ID	Analysis	Unit	% Uncertainty	SANS241:2015	1812282-82774FW	1812282-82775FW	1812282-82776FW	1812282-82777FW
							2018-02-02	2018-02-02	2018-02-02	2018-02-02
							Rockwater 9	Green Hill 10	Cason's Gate 11	Lady Bath 12
Potassium as K Dissolved	mg/l	8.1	NA	1.5	2.1	2.5	4.4			
Sodium as Na Dissolved	mg/l	6.9	≤200	33	32	51	61			
Calcium as Ca Dissolved	mg/l	6.1	NA	9.3	3.2	8.1	2.8			
Magnesium as Mg Dissolved	mg/l	5.2	NA	6.5	3.7	7.1	5.2			
Ammonia as N	mg/l	8.1	≤1.5	0.08	0.08	0.08	0.08			
Sulphate as SO4 Dissolved	mg/l	4.0	≤500	10	11	15	15			
Chloride as Cl Dissolved	mg/l	5.9	≤300	43	49	83	79			
Alkalinity as CaCO3	mg/l	2.9	NA	48	7.5	22	14			
Nitrate + Nitrite as N *	mg/l	8.4	≤11	<0.1	<0.1	0.4	3.4			
ortho Phosphate as P	mg/l		NA	0.13	0.10	0.08	0.05			
Electrical Conductivity	mS/m (25°C)	6.2	≤170	26	22	36	37			
pH (Lab) (20°C)		0.7	≥5 to ≤9.7	7.9	6.9	7.4	6.6			
Total dissolved salts (Calc) *	mg/l	NA	≤1200	166	141	230	237			
CATIONS meq/L *		NA	NA	2.5	1.9	3.3	3.3			
ANIONS meq/L *		NA	NA	2.4	1.8	3.1	3.1			
Aluminium as Al Dissolved	mg/l	13.3	≤0.3	0.02	0.07	<0.01	<0.01			
Boron as B Dissolved	mg/l	12.5	≤2.4	0.04	0.04	0.07	0.06			
Copper as Cu Dissolved	mg/l	8.8	≤2	<0.01	<0.01	<0.01	<0.01			
Iron as Fe Dissolved	mg/l	10.9	≤0.3	0.04	0.07	<0.01	<0.01			
Lead as Pb Dissolved	µg/l	16.5	≤10	<0.5	<0.5	<0.5	20.8			

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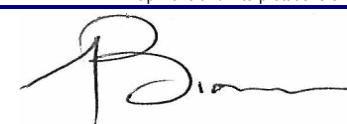
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	1812282-82774FW 2018-02-02 Rockwater 9	1812282-82775FW 2018-02-02 Green Hill 10	1812282-82776FW 2018-02-02 Cason's Gate 11	1812282-82777FW 2018-02-02 Lady Bath 12
Manganese as Mn Dissolved mg/l	12.9	≤0.1	<0.01	<0.01
Zinc as Zn Dissolved mg/l	9.3	≤5	<0.01	<0.01
Bicarbonate as HCO <sub>3</sub> Dissolved (Calc) in μmol/L *		NA	0.5	0.7
Bicarbonate as HCO <sub>3</sub> Dissolved (Calc) mg/L *		NA	0.0	0.0

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Lab No	Sample Date	Sample ID	Analysis	Unit	% Uncertainty	SANS241:2015	1812282-82778FW	1812282-82779FW	1812282-82780FW	1812282-82781FW
	2018-02-02	Iron Pot 13	Potassium as K Dissolved	mg/l	8.1	NA	2.8	1.5	2.6	3.0
	2018-02-02	Harpers 14	Sodium as Na Dissolved	mg/l	6.9	≤200	40	29	83	111
	2018-02-02	Black Bridge 15	Calcium as Ca Dissolved	mg/l	6.1	NA	5.7	3.6	8.8	14
	2018-02-02	Drummond's Point 16	Magnesium as Mg Dissolved	mg/l	5.2	NA	5.3	4.1	11	19
			Ammonia as N	mg/l	8.1	≤1.5	0.06	0.10	0.08	0.09
			Sulphate as SO4 Dissolved	mg/l	4.0	≤500	15	13	25	48
			Chloride as Cl Dissolved	mg/l	5.9	≤300	61	39	90	150
			Alkalinity as CaCO3	mg/l	2.9	NA	11	17	79	83
			Nitrate + Nitrite as N *	mg/l	8.4	≤11	1.4	<0.1	<0.1	0.6
			ortho Phosphate as P	mg/l		NA	0.08	<0.05	0.18	0.13
			Electrical Conductivity	mS/m (25°C)	6.2	≤170	28	20	50	74
			pH (Lab) (20°C)		0.7	≥5 to ≤9.7	7.0	7.0	8.0	7.8
			Total dissolved salts (Calc) *	mg/l	NA	≤1200	179	128	320	474
			CATIONS meq/L *		NA	NA	2.5	1.8	5.0	7.2
			ANIONS meq/L *		NA	NA	2.4	1.7	4.7	7.0
			Aluminium as Al Dissolved	mg/l	13.3	≤0.3	<0.01	0.09	0.18	<0.01
			Boron as B Dissolved	mg/l	12.5	≤2.4	0.07	0.04	0.12	0.10
			Copper as Cu Dissolved	mg/l	8.8	≤2	<0.01	<0.01	<0.01	<0.01
			Iron as Fe Dissolved	mg/l	10.9	≤0.3	<0.01	0.90	0.61	<0.01
			Lead as Pb Dissolved	µg/l	16.5	≤10	4.0	1.6	<0.5	<0.5

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	1812282-82778FW 2018-02-02 Iron Pot 13	1812282-82779FW 2018-02-02 Harpers 14	1812282-82780FW 2018-02-02 Black Bridge 15	1812282-82781FW 2018-02-02 Drummond's Point 16		
Manganese as Mn Dissolved mg/l	12.9	≤0.1	0.17	0.09	<0.01	<0.01
Zinc as Zn Dissolved mg/l	9.3	≤5	0.02	0.03	<0.01	<0.01
Bicarbonate as HCO <sub>3</sub> Dissolved (Calc) in μmol/L *		NA	0.1	0.2	0.7	0.8
Bicarbonate as HCO <sub>3</sub> Dissolved (Calc) mg/L *		NA	0.0	0.0	0.0	0.0

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<b>Lab No</b>	1812282-82782FW	1812282-82783FW	1812282-82784FW	1812282-82785FW
<b>Sample Date</b>	2018-02-02	2018-02-02	2018-02-02	2018-02-02
<b>Sample ID</b>	Tom Peters 17	Shark's Valley 18	Fisher's Valley 19	Levelwood WTW 20

Analysis	Unit	% Uncertainty	SANS241:2015	1812282-82782FW	1812282-82783FW	1812282-82784FW	1812282-82785FW
Potassium as K Dissolved	mg/l	8.1	NA	2.4	4.6	6.7	2.0
Sodium as Na Dissolved	mg/l	6.9	≤200	92	166	163	42
Calcium as Ca Dissolved	mg/l	6.1	NA	17	38	42	8.0
Magnesium as Mg Dissolved	mg/l	5.2	NA	16	40	42	6.5
Ammonia as N	mg/l	8.1	≤1.5	0.09	0.10	0.09	0.09
Sulphate as SO4 Dissolved	mg/l	4.0	≤500	33	67	47	9.9
Chloride as Cl Dissolved	mg/l	5.9	≤300	88	336	374	55
Alkalinity as CaCO3	mg/l	2.9	NA	81	71	36	25
Nitrate + Nitrite as N *	mg/l	8.4	≤11	0.6	1.0	4.9	<0.1
ortho Phosphate as P	mg/l		NA	0.15	0.12	0.15	0.10
Electrical Conductivity	mS/m (25°C)	6.2	≤170	52	132	136	26
pH (Lab) (20°C)		0.7	≥5 to ≤9.7	7.8	8.0	7.3	7.4
Total dissolved salts (Calc) *	mg/l	NA	≤1200	333	845	870	166
CATIONS meq/L *		NA	NA	6.2	12.5	12.8	2.8
ANIONS meq/L *		NA	NA	4.9	12.4	12.6	2.3
Aluminium as Al Dissolved	mg/l	13.3	≤0.3	0.03	0.03	0.02	0.05
Boron as B Dissolved	mg/l	12.5	≤2.4	0.07	0.11	0.09	0.04
Copper as Cu Dissolved	mg/l	8.8	≤2	<0.01	<0.01	<0.01	<0.01
Iron as Fe Dissolved	mg/l	10.9	≤0.3	<0.01	<0.01	<0.01	0.24
Lead as Pb Dissolved	µg/l	16.5	≤10	<0.5	<0.5	<0.5	0.6

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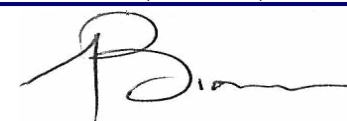
## Certificate of Analysis

Report NO: SAL-2018-12282	Sample Description: Water samples in 2L plastic bottles
Customer: Connect Saint Helena Ltd	No of Samples: 23
Address: Seales Corner Jamestown St Helena Island STHL 1ZZ	Sample Condition: Cold
Contact: Leon De Wet	Date Received: 21-Feb-2018
Phone: +(290)22255 Fax:	Date Completed: 13-Mar-18
Email: Leon.deWet@connect.co.sh	Order No: 103297

	1812282-82782FW 2018-02-02 Tom Peters 17	1812282-82783FW 2018-02-02 Shark's Valley 18	1812282-82784FW 2018-02-02 Fisher's Valley 19	1812282-82785FW 2018-02-02 Levelwood WTW 20
Manganese as Mn Dissolved mg/l	12.9	≤0.1	<0.01	<0.01
Zinc as Zn Dissolved mg/l	9.3	≤5	<0.01	<0.01
Bicarbonate as HCO <sub>3</sub> Dissolved (Calc) in μmol/L *		NA	0.8	0.7
Bicarbonate as HCO <sub>3</sub> Dissolved (Calc) mg/L *		NA	0.0	0.0

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Contact: Leon De Wet	Date Received: 21-Feb-2018
Phone: +(290)22255 Fax:	Date Completed: 13-Mar-18
Email: Leon.deWet@connect.co.sh	Order No: 103297

<b>Lab No</b>	1812282-82786FW	1812282-82787FW	1812282-82788FW
<b>Sample Date</b>	2018-02-02	2018-02-02	2018-02-02
<b>Sample ID</b>	Jamestown WTW 21	Hutt's gate WTW 22	Redhill WTW 23

Analysis	Unit	% Uncertainty	SANS241:2015	1812282-82786FW	1812282-82787FW	1812282-82788FW
Potassium as K Dissolved	mg/l	8.1	NA	2.5	1.6	1.4
Sodium as Na Dissolved	mg/l	6.9	≤200	92	45	36
Calcium as Ca Dissolved	mg/l	6.1	NA	11	8.2	3.8
Magnesium as Mg Dissolved	mg/l	5.2	NA	14	7.7	4.6
Ammonia as N	mg/l	8.1	≤1.5	0.07	0.06	0.09
Sulphate as SO4 Dissolved	mg/l	4.0	≤500	30	9.2	12
Chloride as Cl Dissolved	mg/l	5.9	≤300	114	66	49
Alkalinity as CaCO3	mg/l	2.9	NA	81	39	20
Nitrate + Nitrite as N *	mg/l	8.4	≤11	0.3	<0.1	<0.1
ortho Phosphate as P	mg/l		NA	0.14	0.05	<0.05
Electrical Conductivity	mS/m (25°C)	6.2	≤170	58	32	23
pH (Lab) (20°C)		0.7	≥5 to ≤9.7	7.9	7.7	7.4
Total dissolved salts (Calc) *	mg/l	NA	≤1200	371	205	147
CATIONS meq/L *		NA	NA	5.8	3.1	2.2
ANIONS meq/L *		NA	NA	5.5	2.8	2.0
Aluminium as Al Dissolved	mg/l	13.3	≤0.3	0.08	0.03	0.02
Boron as B Dissolved	mg/l	12.5	≤2.4	0.10	0.04	0.04
Copper as Cu Dissolved	mg/l	8.8	≤2	<0.01	<0.01	<0.01
Iron as Fe Dissolved	mg/l	10.9	≤0.3	0.16	0.12	0.05
Lead as Pb Dissolved	µg/l	16.5	≤10	<0.5	<0.5	<0.5

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Address: Seales Corner Jamestown St Helena Island STHL 1ZZ	Sample Condition: Cold
Contact: Leon De Wet	Date Received: 21-Feb-2018
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Email: Leon.deWet@connect.co.sh	Order No: 103297

	1812282-82786FW 2018-02-02 Jamestown WTW 21	1812282-82787FW 2018-02-02 Hutt's gate WTW 22	1812282-82788FW 2018-02-02 Redhill WTW 23
Manganese as Mn Dissolved mg/l	12.9	≤0.1	<0.01
Zinc as Zn Dissolved mg/l	9.3	≤5	0.03
Bicarbonate as HCO <sub>3</sub> Dissolved (Calc) in μmol/L *		NA	0.8
Bicarbonate as HCO <sub>3</sub> Dissolved (Calc) mg/L *		NA	0.0

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