

Figure 1 - Sampling Locations



Sampling Location: MW-06	Sample Date	12/8/2021	Knox Pit M2017-036	
	Sample Type	Primary		
	Depth to Water	6.37 ft		
Analyte List	Value Units	Dissolved	Detection Limit	Water Quality Standard *
ALUMINUM	MG/L	ND	0.1	**5
ANTIMONY	MG/L	ND	0.001	0.006
ARSENIC	MG/L	ND	0.002	0.01
BARIUM	MG/L	0.037	0.005	2
BERYLLIUM	MG/L	ND	0.0005	0.004
BORON	MG/L	ND	0.15	**0.75
CADMIUM	MG/L	ND	0.002	0.005
CHROMIUM	MG/L	ND	0.01	0.1
COBALT	MG/L	ND	0.005	**0.05
COPPER	MG/L	ND	0.02	**0.2
CYANIDE, TOTAL	MG/L	ND	0.005	0.2
FLUORIDE	MG/L	ND	0.1	4
IRON	MG/L	ND	0.1	**5
LEAD	MG/L	ND	0.002	0.05
LITHIUM	MG/L	0.023	0.02	**2.5
MANGANESE	MG/L	ND	0.005	**0.2
MERCURY	MG/L	ND	0.0002	0.002
MOLYBDENUM	MG/L	0.0056	0.002	0.21
NICKEL	MG/L	ND	0.02	0.1
NITRATE/NITRITE AS N	MG/L	1.5	0.2	10
PH	PH	6.63	0.1	**6.5-8.5
SELENIUM	MG/L	0.026	0.01	0.05
SILVER	MG/L	ND	0.0005	0.05
THALLIUM	MG/L	ND	0.0001	0.002
TOTAL DISSOLVED SOLIDS	MG/L	2000	40	***
URANIUM	MG/L	0.037	0.0001	0.03
VANADIUM	MG/L	ND	0.005	**0.1
ZINC	MG/L	ND	0.1	**2
ND = Non-Detect NM= Not Measured * Analytes tested are from Table 1, Department of Public Health and Environment, WQCC Regulation No. 41 unless noted otherwise ** Table 3, WQCC Regulation 41 *** Table 4, WQCC Regulation 41. Background value x 1.25 = Max Allowable TDS				

Sampling Location: MW-10	Sample Date	12/8/2021	12/8/2021	Knox Pit M2017-036	
	Sample Type	Primary	Duplicate		
	Depth to Water	4.03 feet	4.01 feet		
Analyte List	Value Units	Dissolved	Dissolved	Detection Limit	Water Quality Standard *
ALUMINUM	MG/L	ND	ND	0.1	**5
ANTIMONY	MG/L	ND	ND	0.001	0.006
ARSENIC	MG/L	ND	ND	0.002	0.01
BARIUM	MG/L	0.022	0.021	0.005	2
BERYLLIUM	MG/L	ND	ND	0.0005	0.004
BORON	MG/L	ND	ND	0.15	**0.75
CADMIUM	MG/L	ND	ND	0.002	0.005
CHROMIUM	MG/L	ND	ND	0.01	0.1
COBALT	MG/L	ND	ND	0.005	**0.05
COPPER	MG/L	ND	ND	0.02	**0.2
CYANIDE, TOTAL	MG/L	ND	ND	0.005	0.2
FLUORIDE	MG/L	ND	ND	0.1	4
IRON	MG/L	ND	ND	0.1	**5
LEAD	MG/L	ND	ND	0.002	0.05
LITHIUM	MG/L	0.026	0.026	0.02	**2.5
MANGANESE	MG/L	ND	ND	0.005	**0.2
MERCURY	MG/L	ND	ND	0.0002	0.002
MOLYBDENUM	MG/L	0.0027	0.003	0.002	0.21
NICKEL	MG/L	ND	ND	0.02	0.1
NITRATE/NITRITE AS N	MG/L	2.2	2.2	0.02	10
PH	PH	6.95	7.2	0.1	**6.5-8.5
SELENIUM	MG/L	0.017	0.019	0.01	0.05
SILVER	MG/L	ND	ND	0.0005	0.05
THALLIUM	MG/L	ND	ND	0.0001	0.002
TOTAL DISSOLVED SOLIDS	MG/L	1500	1500	20	***
URANIUM	MG/L	0.03	0.031	0.0001	0.03
VANADIUM	MG/L	ND	ND	0.005	**0.1
ZINC	MG/L	ND	ND	0.1	**2

ND = Non-Detect

NM= Not Measured

* Analytes tested are from Table 1, Department of Public Health and Environment, WQCC Regulation No. 41 unless noted otherwise

** Table 3, WQCC Regulation 41

*** Table 4, WQCC Regulation 41. Background value x 1.25 = Max Allowable TDS

Sampling Location: MW-12	Sample Date	12/8/2021	Knox Pit M2017-036	
	Sample Type	Primary		
	Depth to Water	6.87 feet		
Analyte List	Value Units	Dissolved	Detection Limit	Water Quality Standard *
ALUMINUM	MG/L	ND	0.1	**5
ANTIMONY	MG/L	ND	0.001	0.006
ARSENIC	MG/L	ND	0.002	0.01
BARIUM	MG/L	0.031	0.005	2
BERYLLIUM	MG/L	ND	0.0005	0.004
BORON	MG/L	ND	0.15	**0.75
CADMIUM	MG/L	ND	0.002	0.005
CHROMIUM	MG/L	ND	0.01	0.1
COBALT	MG/L	ND	0.005	**0.05
COPPER	MG/L	ND	0.02	**0.2
CYANIDE, TOTAL	MG/L	ND	0.005	0.2
FLUORIDE	MG/L	0.65	0.1	4
IRON	MG/L	ND	0.1	**5
LEAD	MG/L	ND	0.002	0.05
LITHIUM	MG/L	ND	0.02	**2.5
MANGANESE	MG/L	ND	0.005	**0.2
MERCURY	MG/L	ND	0.0002	0.002
MOLYBDENUM	MG/L	0.0042	0.002	0.21
NICKEL	MG/L	ND	0.02	0.1
NITRATE/NITRITE AS N	MG/L	ND	0.02	10
PH	PH	7.27	0.1	**6.5-8.5
SELENIUM	MG/L	ND	0.01	0.05
SILVER	MG/L	ND	0.0005	0.05
THALLIUM	MG/L	ND	0.0001	0.002
TOTAL DISSOLVED SOLIDS	MG/L	570	20	***
URANIUM	MG/L	0.0032	0.0001	0.03
VANADIUM	MG/L	ND	0.005	**0.1
ZINC	MG/L	ND	0.1	**2
ND = Non-Detect NM= Not Measured * Analytes tested are from Table 1, Department of Public Health and Environment, WQCC Regulation No. 41 unless noted otherwise ** Table 3, WQCC Regulation 41 *** Table 4, WQCC Regulation 41. Background value x 1.25 = Max Allowable TDS				

Sampling Location: MW-13	Sample Date	12/8/2021	Knox Pit M2017-036	
	Sample Type	Primary		
	Depth to Water	7.24 feet		
Analyte List	Value Units	Dissolved	Detection Limit	Water Quality Standard *
ALUMINUM	MG/L	ND	0.1	**5
ANTIMONY	MG/L	ND	0.001	0.006
ARSENIC	MG/L	ND	0.002	0.01
BARIUM	MG/L	0.031	0.005	2
BERYLLIUM	MG/L	ND	0.0005	0.004
BORON	MG/L	ND	0.15	**0.75
CADMIUM	MG/L	ND	0.002	0.005
CHROMIUM	MG/L	ND	0.01	0.1
COBALT	MG/L	ND	0.005	**0.05
COPPER	MG/L	ND	0.02	**0.2
CYANIDE, TOTAL	MG/L	ND	0.005	0.2
FLUORIDE	MG/L	ND	0.1	4
IRON	MG/L	ND	0.1	**5
LEAD	MG/L	ND	0.002	0.05
LITHIUM	MG/L	ND	0.02	**2.5
MANGANESE	MG/L	ND	0.005	**0.2
MERCURY	MG/L	ND	0.0002	0.002
MOLYBDENUM	MG/L	0.0027	0.002	0.21
NICKEL	MG/L	ND	0.02	0.1
NITRATE/NITRITE AS N	MG/L	ND	0.02	10
PH	PH	7.41	0.1	**6.5-8.5
SELENIUM	MG/L	ND	0.01	0.05
SILVER	MG/L	ND	0.0005	0.05
THALLIUM	MG/L	ND	0.0001	0.002
TOTAL DISSOLVED SOLIDS	MG/L	200	40	***
URANIUM	MG/L	0.0011	0.0001	0.03
VANADIUM	MG/L	ND	0.005	**0.1
ZINC	MG/L	ND	0.1	**2

ND = Non-Detect

NM= Not Measured

* Analytes tested are from Table 1, Department of Public Health and Environment, WQCC Regulation No. 41 unless noted otherwise

** Table 3, WQCC Regulation 41

*** Table 4, WQCC Regulation 41. Background value x 1.25 = Max Allowable TDS

Sampling Location: MW-19	Sample Date	12/8/2021	Knox Pit M2017-036	
	Sample Type	Primary		
	Depth to Water	5.31 feet		
Analyte List	Value Units	Dissolved	Detection Limit	Water Quality Standard *
ALUMINUM	MG/L	ND	0.1	**5
ANTIMONY	MG/L	ND	0.001	0.006
ARSENIC	MG/L	ND	0.002	0.01
BARIUM	MG/L	0.052	0.005	2
BERYLLIUM	MG/L	ND	0.0005	0.004
BORON	MG/L	ND	0.15	**0.75
CADMIUM	MG/L	ND	0.002	0.005
CHROMIUM	MG/L	ND	0.01	0.1
COBALT	MG/L	ND	0.005	**0.05
COPPER	MG/L	ND	0.02	**0.2
CYANIDE, TOTAL	MG/L	ND	0.005	0.2
FLUORIDE	MG/L	ND	0.1	4
IRON	MG/L	ND	0.1	**5
LEAD	MG/L	ND	0.002	0.05
LITHIUM	MG/L	ND	0.02	**2.5
MANGANESE	MG/L	ND	0.005	**0.2
MERCURY	MG/L	ND	0.0002	0.002
MOLYBDENUM	MG/L	0.0024	0.002	0.21
NICKEL	MG/L	ND	0.02	0.1
NITRATE/NITRITE AS N	MG/L	ND	0.02	10
PH	PH	7.37	0.1	**6.5-8.5
SELENIUM	MG/L	ND	0.01	0.05
SILVER	MG/L	ND	0.0005	0.05
THALLIUM	MG/L	ND	0.0001	0.002
TOTAL DISSOLVED SOLIDS	MG/L	190	40	***
URANIUM	MG/L	0.003	0.0001	0.03
VANADIUM	MG/L	ND	0.005	**0.1
ZINC	MG/L	ND	0.1	**2

ND = Non-Detect

NM= Not Measured

* Analytes tested are from Table 1, Department of Public Health and Environment, WQCC Regulation No. 41 unless noted otherwise

** Table 3, WQCC Regulation 41

*** Table 4, WQCC Regulation 41. Background value x 1.25 = Max Allowable TDS

Sampling Location: 03-Blank	Sample Date	12/8/2021	Knox Pit M2017-036	
	Sample Type	Blank		
	Depth to Water	Distilled Water		
Analyte List	Value Units	Dissolved	Detection Limit	Water Quality Standard *
ALUMINUM	MG/L	ND	0.1	**5
ANTIMONY	MG/L	ND	0.001	0.006
ARSENIC	MG/L	ND	0.002	0.01
BARIUM	MG/L	ND	0.005	2
BERYLLIUM	MG/L	ND	0.0005	0.004
BORON	MG/L	ND	0.15	**0.75
CADMIUM	MG/L	ND	0.002	0.005
CHROMIUM	MG/L	ND	0.01	0.1
COBALT	MG/L	ND	0.005	**0.05
COPPER	MG/L	ND	0.02	**0.2
CYANIDE, TOTAL	MG/L	ND	0.005	0.2
FLUORIDE	MG/L	ND	0.1	4
IRON	MG/L	ND	0.1	**5
LEAD	MG/L	ND	0.002	0.05
LITHIUM	MG/L	ND	0.02	**2.5
MANGANESE	MG/L	ND	0.005	**0.2
MERCURY	MG/L	ND	0.0002	0.002
MOLYBDENUM	MG/L	ND	0.002	0.21
NICKEL	MG/L	ND	0.02	0.1
NITRATE/NITRITE AS N	MG/L	ND	0.02	10
PH	PH	8.2	0.1	**6.5-8.5
SELENIUM	MG/L	ND	0.01	0.05
SILVER	MG/L	ND	0.0005	0.05
THALLIUM	MG/L	ND	0.0001	0.002
TOTAL DISSOLVED SOLIDS	MG/L	700	40	***
URANIUM	MG/L	ND	0.0001	0.03
VANADIUM	MG/L	ND	0.005	**0.1
ZINC	MG/L	ND	0.1	**2
ND = Non-Detect NM= Not Measured * Analytes tested are from Table 1, Department of Public Health and Environment, WQCC Regulation No. 41 unless noted otherwise ** Table 3, WQCC Regulation 41 *** Table 4, WQCC Regulation 41. Background value x 1.25 = Max Allowable TDS				

Sampling Location: MW-06	Sample Date	3/22/2022	Knox Pit M2017-036	
	Sample Type	Primary		
	Depth to Water	11.50 ft		
Analyte List	Value Units	Dissolved	Detection Limit	Water Quality Standard *
ALUMINUM	MG/L	ND	0.1	**5
ANTIMONY	MG/L	ND	0.001	0.006
ARSENIC	MG/L	ND	0.002	0.01
BARIUM	MG/L	0.033	0.005	2
BERYLLIUM	MG/L	ND	0.0005	0.004
BORON	MG/L	ND	0.15	**0.75
CADMIUM	MG/L	ND	0.002	0.005
CHROMIUM	MG/L	ND	0.01	0.1
COBALT	MG/L	ND	0.005	**0.05
COPPER	MG/L	ND	0.02	**0.2
CYANIDE, TOTAL	MG/L	ND	0.005	0.2
FLUORIDE	MG/L	ND	0.1	2
IRON	MG/L	ND	0.1	0.3
LEAD	MG/L	ND	0.002	0.05
LITHIUM	MG/L	0.021	0.02	**2.5
MANGANESE	MG/L	ND	0.005	0.05
MERCURY	MG/L	ND	0.0002	0.002
MOLYBDENUM	MG/L	0.0055	0.002	0.21
NICKEL	MG/L	ND	0.02	0.1
NITRATE AS N	MG/L	1.6	1	10
NITRATE/NITRITE AS N	MG/L	0.36	0.2	10
NITRITE AS N	MG/L	ND	0.75	1
PH	PH	7.12	0.1	**6.5-8.5
SELENIUM	MG/L	0.013	0.01	**0.02
SILVER	MG/L	ND	0.0005	0.05
THALLIUM	MG/L	ND	0.0001	0.002
TOTAL DISSOLVED SOLIDS	MG/L	2100	40	***
URANIUM	MG/L	0.036	0.0001	0.03
VANADIUM	MG/L	ND	0.005	**0.1
ZINC	MG/L	ND	0.1	**2

ND = Non-Detect

NM= Not Measured

* Analytes tested are from Table 1, Department of Public Health and Environment, WQCC Regulation No. 41 unless noted otherwise

** Table 3, WQCC Regulation 41

*** Table 4, WQCC Regulation 41. Background value x 1.25 = Max Allowable TDS

Sampling Location: MW-10	Sample Date	3/22/2022	3/22/2022	Knox Pit M2017-036	
	Sample Type	Primary	Duplicate		
	Depth to Water	8.57 feet	8.56 feet		
Analyte List	Value Units	Dissolved	Dissolved	Detection Limit	Water Quality Standard *
ALUMINUM	MG/L	ND	ND	0.1	**5
ANTIMONY	MG/L	ND	ND	0.001	0.006
ARSENIC	MG/L	ND	ND	0.002	0.01
BARIUM	MG/L	0.021	0.02	0.005	2
BERYLLIUM	MG/L	ND	ND	0.0005	0.004
BORON	MG/L	ND	ND	0.15	**0.75
CADMIUM	MG/L	ND	ND	0.002	0.005
CHROMIUM	MG/L	ND	ND	0.01	0.1
COBALT	MG/L	ND	ND	0.005	**0.05
COPPER	MG/L	ND	ND	0.02	**0.2
CYANIDE, TOTAL	MG/L	ND	ND	0.005	0.2
FLUORIDE	MG/L	ND	ND	0.1	2
IRON	MG/L	ND	ND	0.1	0.3
LEAD	MG/L	ND	ND	0.002	0.05
LITHIUM	MG/L	0.025	0.024	0.02	**2.5
MANGANESE	MG/L	ND	ND	0.005	0.05
MERCURY	MG/L	ND	ND	0.0002	0.002
MOLYBDENUM	MG/L	0.0027	0.0028	0.002	0.21
NICKEL	MG/L	ND	ND	0.02	0.1
NITRATE AS N	MG/L	3	3.1	2	10
NITRATE/NITRITE AS N	MG/L	1.5	1.9	0.2	10
NITRITE AS N	MG/L	1	1	0.75	1
PH	PH	7.23	7.14	0.1	**6.5-8.5
SELENIUM	MG/L	0.032	0.032	0.01	**0.02
SILVER	MG/L	ND	ND	0.0005	0.05
THALLIUM	MG/L	ND	ND	0.0001	0.002
TOTAL DISSOLVED SOLIDS	MG/L	1600	1700	40	***
URANIUM	MG/L	0.034	0.033	0.0001	0.03
VANADIUM	MG/L	0	ND	0.005	**0.1
ZINC	MG/L	ND	ND	0.1	**2

ND = Non-Detect

NM= Not Measured

* Analytes tested are from Table 1, Department of Public Health and Environment, WQCC Regulation No. 41 unless noted otherwise

** Table 3, WQCC Regulation 41

*** Table 4, WQCC Regulation 41. Background value x 1.25 = Max Allowable TDS

Sampling Location: MW-12	Sample Date	3/22/2022	Knox Pit M2017-036	
	Sample Type	Primary		
	Depth to Water	9.08 feet		
Analyte List	Value Units	Dissolved	Detection Limit	Water Quality Standard *
ALUMINUM	MG/L	2.7	0.1	**5
ANTIMONY	MG/L	ND	0.001	0.006
ARSENIC	MG/L	ND	0.002	0.01
BARIUM	MG/L	0.05	0.005	2
BERYLLIUM	MG/L	ND	0.0005	0.004
BORON	MG/L	ND	0.15	**0.75
CADMIUM	MG/L	ND	0.002	0.005
CHROMIUM	MG/L	ND	0.01	0.1
COBALT	MG/L	ND	0.005	**0.05
COPPER	MG/L	ND	0.02	**0.2
CYANIDE, TOTAL	MG/L	ND	0.005	0.2
FLUORIDE	MG/L	0.64	0.1	2
IRON	MG/L	2.7	0.1	0.3
LEAD	MG/L	ND	0.002	0.05
LITHIUM	MG/L	ND	0.02	**2.5
MANGANESE	MG/L	0.05	0.005	0.05
MERCURY	MG/L	ND	0.0002	0.002
MOLYBDENUM	MG/L	0.0044	0.002	0.21
NICKEL	MG/L	ND	0.02	0.1
NITRATE AS N	MG/L	ND	0.4	10
NITRATE/NITRITE AS N	MG/L	ND	0.2	10
NITRITE AS N	MG/L	0.71	0.71	1
PH	PH	7.48	0.1	**6.5-8.5
SELENIUM	MG/L	ND	0.01	**0.02
SILVER	MG/L	ND	0.0005	0.05
THALLIUM	MG/L	ND	0.0001	0.002
TOTAL DISSOLVED SOLIDS	MG/L	480	20	***
URANIUM	MG/L	0.0034	0.0001	0.03
VANADIUM	MG/L	ND	0.005	**0.1
ZINC	MG/L	ND	0.1	**2
ND = Non-Detect NM= Not Measured * Analytes tested are from Table 1, Department of Public Health and Environment, WQCC Regulation No. 41 unless noted otherwise ** Table 3, WQCC Regulation 41 *** Table 4, WQCC Regulation 41. Background value x 1.25 = Max Allowable TDS				

Sampling Location: MW-13	Sample Date	3/22/2022	Knox Pit M2017-036	
	Sample Type	Primary		
	Depth to Water	9.38 feet		
Analyte List	Value Units	Dissolved	Detection Limit	Water Quality Standard *
ALUMINUM	MG/L	ND	0.1	**5
ANTIMONY	MG/L	ND	0.001	0.006
ARSENIC	MG/L	ND	0.002	0.01
BARIUM	MG/L	0.028	0.005	2
BERYLLIUM	MG/L	ND	0.0005	0.004
BORON	MG/L	ND	0.15	**0.75
CADMIUM	MG/L	ND	0.002	0.005
CHROMIUM	MG/L	ND	0.01	0.1
COBALT	MG/L	ND	0.005	**0.05
COPPER	MG/L	ND	0.02	**0.2
CYANIDE, TOTAL	MG/L	ND	0.005	0.2
FLUORIDE	MG/L	0.32	0.1	4
IRON	MG/L	ND	0.1	**5
LEAD	MG/L	ND	0.002	0.05
LITHIUM	MG/L	ND	0.02	**2.5
MANGANESE	MG/L	ND	0.005	**0.2
MERCURY	MG/L	ND	0.0002	0.002
MOLYBDENUM	MG/L	0.0028	0.002	0.21
NICKEL	MG/L	ND	0.02	0.1
NITRATE AS N	MG/L	ND	0.4	10
NITRATE/NITRITE AS N	MG/L	ND	0.2	10
NITRITE AS N	MG/L	0.67	0.67	1
PH	PH	7.88	0.1	**6.5-8.5
SELENIUM	MG/L	ND	0.01	0.05
SILVER	MG/L	ND	0.0005	0.05
THALLIUM	MG/L	ND	0.0001	0.002
TOTAL DISSOLVED SOLIDS	MG/L	160	40	***
URANIUM	MG/L	0.001	0.0001	0.03
VANADIUM	MG/L	ND	0.005	**0.1
ZINC	MG/L	ND	0.1	**2

ND = Non-Detect

NM= Not Measured

* Analytes tested are from Table 1, Department of Public Health and Environment, WQCC Regulation No. 41 unless noted otherwise

** Table 3, WQCC Regulation 41

*** Table 4, WQCC Regulation 41. Background value x 1.25 = Max Allowable TDS

Sampling Location: MW-19	Sample Date	3/22/2022	Knox Pit M2017-036	
	Sample Type	Primary		
	Depth to Water	9.99 feet		
Analyte List	Value Units	Dissolved	Detection Limit	Water Quality Standard *
ALUMINUM	MG/L	ND	0.1	**5
ANTIMONY	MG/L	ND	0.001	0.006
ARSENIC	MG/L	ND	0.002	0.01
BARIUM	MG/L	0.038	0.005	2
BERYLLIUM	MG/L	ND	0.0005	0.004
BORON	MG/L	ND	0.15	**0.75
CADMIUM	MG/L	ND	0.002	0.005
CHROMIUM	MG/L	ND	0.01	0.1
COBALT	MG/L	ND	0.005	**0.05
COPPER	MG/L	ND	0.02	**0.2
CYANIDE, TOTAL	MG/L	ND	0.005	0.2
FLUORIDE	MG/L	0.39	0.1	4
IRON	MG/L	ND	0.1	**5
LEAD	MG/L	ND	0.002	0.05
LITHIUM	MG/L	ND	0.02	**2.5
MANGANESE	MG/L	0.011	0.005	**0.2
MERCURY	MG/L	ND	0.0002	0.002
MOLYBDENUM	MG/L	0.0027	0.002	0.21
NICKEL	MG/L	ND	0.02	0.1
NITRATE AS N	MG/L	ND	0.4	10
NITRATE/NITRITE AS N	MG/L	ND	0.2	10
NITRITE AS N	MG/L	1.1	0.3	1
PH	PH	7.72	0.1	**6.5-8.5
SELENIUM	MG/L	ND	0.01	0.05
SILVER	MG/L	ND	0.0005	0.05
THALLIUM	MG/L	ND	0.0001	0.002
TOTAL DISSOLVED SOLIDS	MG/L	280	40	***
URANIUM	MG/L	0.0026	0.0001	0.03
VANADIUM	MG/L	ND	0.005	**0.1
ZINC	MG/L	ND	0.1	**2

ND = Non-Detect

NM= Not Measured

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** Table 3, WQCC Regulation 41

*** Table 4, WQCC Regulation 41. Background value x 1.25 = Max Allowable TDS

Sampling Location: 03-Blank	Sample Date	3/22/2022	Knox Pit M2017-036	
	Sample Type	Blank		
	Depth to Water	Distilled Water		
Analyte List	Value Units	Dissolved	Detection Limit	Water Quality Standard *
ALUMINUM	MG/L	ND	0.1	**5
ANTIMONY	MG/L	ND	0.001	0.006
ARSENIC	MG/L	ND	0.002	0.01
BARIUM	MG/L	ND	0.005	2
BERYLLIUM	MG/L	ND	0.0005	0.004
BORON	MG/L	ND	0.15	**0.75
CADMIUM	MG/L	ND	0.002	0.005
CHROMIUM	MG/L	ND	0.01	0.1
COBALT	MG/L	ND	0.005	**0.05
COPPER	MG/L	ND	0.02	**0.2
CYANIDE, TOTAL	MG/L	ND	0.005	0.2
FLUORIDE	MG/L	ND	0.1	4
IRON	MG/L	ND	0.1	**5
LEAD	MG/L	ND	0.002	0.05
LITHIUM	MG/L	ND	0.02	**2.5
MANGANESE	MG/L	ND	0.005	**0.2
MERCURY	MG/L	ND	0.0002	0.002
MOLYBDENUM	MG/L	ND	0.002	0.21
NICKEL	MG/L	ND	0.02	0.1
NITRATE/NITRITE AS N	MG/L	ND	0.02	10
PH	PH	6.17	0.1	**6.5-8.5
SELENIUM	MG/L	ND	0.01	0.05
SILVER	MG/L	ND	0.0005	0.05
THALLIUM	MG/L	ND	0.0001	0.002
TOTAL DISSOLVED SOLIDS	MG/L	ND	40	***
URANIUM	MG/L	ND	0.0001	0.03
VANADIUM	MG/L	ND	0.005	**0.1
ZINC	MG/L	ND	0.1	**2

ND = Non-Detect

NM= Not Measured

* Analytes tested are from Table 1, Department of Public Health and Environment, WQCC Regulation No. 41 unless noted otherwise

** Table 3, WQCC Regulation 41

*** Table 4, WQCC Regulation 41. Background value x 1.25 = Max Allowable TDS

Sampling Location: MW-06	Sample Date	7/13/2022	Knox Pit M2017-036	
	Sample Type	Primary		
	Depth to Water	4.18 ft		
Analyte List	Value Units	Dissolved	Detection Limit	Water Quality Standard *
ALUMINUM	MG/L	ND	0.1	**5
ANTIMONY	MG/L	ND	0.001	0.006
ARSENIC	MG/L	ND	0.002	0.01
BARIUM	MG/L	0.026	0.005	2
BERYLLIUM	MG/L	ND	0.0005	0.004
BORON	MG/L	ND	0.15	**0.75
CADMIUM	MG/L	ND	0.002	0.005
CHROMIUM	MG/L	ND	0.01	0.1
COBALT	MG/L	ND	0.005	**0.05
COPPER	MG/L	ND	0.02	**0.2
CYANIDE, TOTAL	MG/L	ND	0.005	0.2
FLUORIDE	MG/L	ND	0.1	2
IRON	MG/L	ND	0.1	0.3
LEAD	MG/L	ND	0.002	0.05
LITHIUM	MG/L	ND	0.02	**2.5
MANGANESE	MG/L	ND	0.005	0.05
MERCURY	MG/L	ND	0.0002	0.002
MOLYBDENUM	MG/L	0.0072	0.002	0.21
NICKEL	MG/L	ND	0.02	0.1
NITRATE AS N	MG/L	NM	1	10
NITRATE/NITRITE AS N	MG/L	5.9	0.2	10
NITRITE AS N	MG/L	NM	0.75	1
PH	PH	7.67	0.1	**6.5-8.5
SELENIUM	MG/L	0.014	0.01	**0.02
SILVER	MG/L	ND	0.0005	0.05
THALLIUM	MG/L	ND	0.0001	0.002
TOTAL DISSOLVED SOLIDS	MG/L	1500	40	***
URANIUM	MG/L	0.023	0.0001	0.03
VANADIUM	MG/L	ND	0.005	**0.1
ZINC	MG/L	ND	0.1	**2
ND = Non-Detect NM= Not Measured * Analytes tested are from Table 1 and 2, Department of Public Health and Environment, WQCC Regulation No. 41 unless noted otherwise ** Table 3, WQCC Regulation 41 *** Table 4, WQCC Regulation 41. Background value x 1.25 = Max Allowable TDS				

Sampling Location: MW-10	Sample Date	7/13/2022	Knox Pit M2017-036	
	Sample Type	Primary		
	Depth to Water	4.47 feet		
Analyte List	Value Units	Dissolved	Detection Limit	Water Quality Standard *
ALUMINUM	MG/L	ND	0.1	**5
ANTIMONY	MG/L	ND	0.001	0.006
ARSENIC	MG/L	ND	0.002	0.01
BARIUM	MG/L	0.024	0.005	2
BERYLLIUM	MG/L	ND	0.0005	0.004
BORON	MG/L	ND	0.15	**0.75
CADMIUM	MG/L	ND	0.002	0.005
CHROMIUM	MG/L	ND	0.01	0.1
COBALT	MG/L	ND	0.005	**0.05
COPPER	MG/L	ND	0.02	**0.2
CYANIDE, TOTAL	MG/L	ND	0.005	0.2
FLUORIDE	MG/L	ND	0.1	2
IRON	MG/L	ND	0.1	0.3
LEAD	MG/L	ND	0.002	0.05
LITHIUM	MG/L	0.031	0.02	**2.5
MANGANESE	MG/L	ND	0.005	0.05
MERCURY	MG/L	ND	0.0002	0.002
MOLYBDENUM	MG/L	0.0027	0.002	0.21
NICKEL	MG/L	ND	0.02	0.1
NITRATE AS N	MG/L	NM	2	10
NITRATE/NITRITE AS N	MG/L	2.7	0.2	10
NITRITE AS N	MG/L	NM	0.75	1
PH	PH	7.51	0.1	**6.5-8.5
SELENIUM	MG/L	0.023	0.01	**0.02
SILVER	MG/L	ND	0.0005	0.05
THALLIUM	MG/L	ND	0.0001	0.002
TOTAL DISSOLVED SOLIDS	MG/L	1700	40	***
URANIUM	MG/L	0.033	0.0001	0.03
VANADIUM	MG/L	ND	0.005	**0.1
ZINC	MG/L	ND	0.1	**2
ND = Non-Detect NM= Not Measured * Analytes tested are from Table 1 and 2, Department of Public Health and Environment, WQCC Regulation No. 41 unless noted otherwise ** Table 3, WQCC Regulation 41 *** Table 4, WQCC Regulation 41. Background value x 1.25 = Max Allowable TDS				

Sampling Location: MW-12	Sample Date	7/13/2022	Knox Pit M2017-036	
	Sample Type	Primary		
	Depth to Water	6.19 feet		
Analyte List	Value Units	Dissolved	Detection Limit	Water Quality Standard *
ALUMINUM	MG/L	ND	0.1	**5
ANTIMONY	MG/L	ND	0.001	0.006
ARSENIC	MG/L	ND	0.002	0.01
BARIUM	MG/L	0.028	0.005	2
BERYLLIUM	MG/L	ND	0.0005	0.004
BORON	MG/L	ND	0.15	**0.75
CADMIUM	MG/L	ND	0.002	0.005
CHROMIUM	MG/L	ND	0.01	0.1
COBALT	MG/L	ND	0.005	**0.05
COPPER	MG/L	ND	0.02	**0.2
CYANIDE, TOTAL	MG/L	ND	0.005	0.2
FLUORIDE	MG/L	0.65	0.1	2
IRON	MG/L	ND	0.1	0.3
LEAD	MG/L	ND	0.002	0.05
LITHIUM	MG/L	ND	0.02	**2.5
MANGANESE	MG/L	ND	0.005	0.05
MERCURY	MG/L	ND	0.0002	0.002
MOLYBDENUM	MG/L	0.0041	0.002	0.21
NICKEL	MG/L	ND	0.02	0.1
NITRATE AS N	MG/L	NM	0.4	10
NITRATE/NITRITE AS N	MG/L	ND	0.2	10
NITRITE AS N	MG/L	NM	0.71	1
PH	PH	7.87	0.1	**6.5-8.5
SELENIUM	MG/L	ND	0.01	**0.02
SILVER	MG/L	ND	0.0005	0.05
THALLIUM	MG/L	ND	0.0001	0.002
TOTAL DISSOLVED SOLIDS	MG/L	490	20	***
URANIUM	MG/L	0.0028	0.0001	0.03
VANADIUM	MG/L	ND	0.005	**0.1
ZINC	MG/L	ND	0.1	**2
ND = Non-Detect NM= Not Measured * Analytes tested are from Table 1 and 2, Department of Public Health and Environment, WQCC Regulation No. 41 unless noted otherwise ** Table 3, WQCC Regulation 41 *** Table 4, WQCC Regulation 41. Background value x 1.25 = Max Allowable TDS				

Sampling Location: MW-13	Sample Date	7/13/2022	Knox Pit M2017-036	
	Sample Type	Primary		
	Depth to Water	9.38 feet		
Analyte List	Value Units	Dissolved	Detection Limit	Water Quality Standard *
ALUMINUM	MG/L	ND	0.1	**5
ANTIMONY	MG/L	ND	0.001	0.006
ARSENIC	MG/L	ND	0.002	0.01
BARIUM	MG/L	0.035	0.005	2
BERYLLIUM	MG/L	ND	0.0005	0.004
BORON	MG/L	ND	0.15	**0.75
CADMIUM	MG/L	ND	0.002	0.005
CHROMIUM	MG/L	ND	0.01	0.1
COBALT	MG/L	ND	0.005	**0.05
COPPER	MG/L	ND	0.02	**0.2
CYANIDE, TOTAL	MG/L	ND	0.005	0.2
FLUORIDE	MG/L	0.28	0.1	4
IRON	MG/L	ND	0.1	**5
LEAD	MG/L	ND	0.002	0.05
LITHIUM	MG/L	ND	0.02	**2.5
MANGANESE	MG/L	ND	0.005	**0.2
MERCURY	MG/L	ND	0.0002	0.002
MOLYBDENUM	MG/L	0.0026	0.002	0.21
NICKEL	MG/L	ND	0.02	0.1
NITRATE AS N	MG/L	NM	0.4	10
NITRATE/NITRITE AS N	MG/L	0.28	0.2	10
NITRITE AS N	MG/L	NM	0.67	1
PH	PH	8.13	0.1	**6.5-8.5
SELENIUM	MG/L	ND	0.01	0.05
SILVER	MG/L	ND	0.0005	0.05
THALLIUM	MG/L	ND	0.0001	0.002
TOTAL DISSOLVED SOLIDS	MG/L	180	40	***
URANIUM	MG/L	0.0014	0.0001	0.03
VANADIUM	MG/L	ND	0.005	**0.1
ZINC	MG/L	ND	0.1	**2
ND = Non-Detect NM= Not Measured * Analytes tested are from Table 1 and 2, Department of Public Health and Environment, WQCC Regulation No. 41 unless noted otherwise ** Table 3, WQCC Regulation 41 *** Table 4, WQCC Regulation 41. Background value x 1.25 = Max Allowable TDS				

Sampling Location: MW-19	Sample Date	7/13/2022	7/13/2022	Knox Pit M2017-036	
	Sample Type	Primary	Duplicate		
	Depth to Water	7.45 feet	7.45 feet		
Analyte List	Value Units	Dissolved	Dissolved	Detection Limit	Water Quality Standard *
ALUMINUM	MG/L	ND	ND	0.1	**5
ANTIMONY	MG/L	ND	ND	0.001	0.006
ARSENIC	MG/L	ND	ND	0.002	0.01
BARIUM	MG/L	0.027	0.025	0.005	2
BERYLLIUM	MG/L	ND	ND	0.0005	0.004
BORON	MG/L	ND	ND	0.15	**0.75
CADMIUM	MG/L	ND	ND	0.002	0.005
CHROMIUM	MG/L	ND	ND	0.01	0.1
COBALT	MG/L	ND	ND	0.005	**0.05
COPPER	MG/L	ND	ND	0.02	**0.2
CYANIDE, TOTAL	MG/L	ND	ND	0.005	0.2
FLUORIDE	MG/L	0.55	0.54	0.1	4
IRON	MG/L	ND	ND	0.1	**5
LEAD	MG/L	ND	ND	0.002	0.05
LITHIUM	MG/L	ND	ND	0.02	**2.5
MANGANESE	MG/L	ND	ND	0.005	**0.2
MERCURY	MG/L	ND	ND	0.0002	0.002
MOLYBDENUM	MG/L	0.0043	0.0041	0.002	0.21
NICKEL	MG/L	ND	ND	0.02	0.1
NITRATE AS N	MG/L	NM	NM	0.4	10
NITRATE/NITRITE AS N	MG/L	ND	ND	0.2	10
NITRITE AS N	MG/L	NM	NM	0.3	1
PH	PH	8.11	8.13	0.1	**6.5-8.5
SELENIUM	MG/L	ND	ND	0.01	0.05
SILVER	MG/L	ND	ND	0.0005	0.05
THALLIUM	MG/L	ND	ND	0.0001	0.002
TOTAL DISSOLVED SOLIDS	MG/L	150	140	40	***
URANIUM	MG/L	0.00079	0.00081	0.0001	0.03
VANADIUM	MG/L	ND	ND	0.005	**0.1
ZINC	MG/L	ND	ND	0.1	**2
ND = Non-Detect NM= Not Measured * Analytes tested are from Table 1 and 2, Department of Public Health and Environment, WQCC Regulation No. 41 unless noted otherwise ** Table 3, WQCC Regulation 41 *** Table 4, WQCC Regulation 41. Background value x 1.25 = Max Allowable TDS					

Sampling Location: 03-Blank	Sample Date	7/13/2022	Knox Pit M2017-036	
	Sample Type	Blank		
	Depth to Water	Distilled Water		
Analyte List	Value Units	Dissolved	Detection Limit	Water Quality Standard *
ALUMINUM	MG/L	ND	0.1	**5
ANTIMONY	MG/L	ND	0.001	0.006
ARSENIC	MG/L	ND	0.002	0.01
BARIUM	MG/L	ND	0.005	2
BERYLLIUM	MG/L	ND	0.0005	0.004
BORON	MG/L	ND	0.15	**0.75
CADMIUM	MG/L	ND	0.002	0.005
CHROMIUM	MG/L	ND	0.01	0.1
COBALT	MG/L	ND	0.005	**0.05
COPPER	MG/L	ND	0.02	**0.2
CYANIDE, TOTAL	MG/L	ND	0.005	0.2
FLUORIDE	MG/L	ND	0.1	4
IRON	MG/L	ND	0.1	**5
LEAD	MG/L	ND	0.002	0.05
LITHIUM	MG/L	ND	0.02	**2.5
MANGANESE	MG/L	ND	0.005	**0.2
MERCURY	MG/L	ND	0.0002	0.002
MOLYBDENUM	MG/L	ND	0.002	0.21
NICKEL	MG/L	ND	0.02	0.1
NITRATE/NITRITE AS N	MG/L	ND	0.02	10
PH	PH	6.6	0.1	**6.5-8.5
SELENIUM	MG/L	ND	0.01	0.05
SILVER	MG/L	ND	0.0005	0.05
THALLIUM	MG/L	ND	0.0001	0.002
TOTAL DISSOLVED SOLIDS	MG/L	ND	40	***
URANIUM	MG/L	ND	0.0001	0.03
VANADIUM	MG/L	ND	0.005	**0.1
ZINC	MG/L	ND	0.1	**2

ND = Non-Detect

NM= Not Measured

* Analytes tested are from Table 1 and 2, Department of Public Health and Environment, WQCC Regulation No. 41 unless noted otherwise

** Table 3, WQCC Regulation 41

*** Table 4, WQCC Regulation 41. Background value x 1.25 = Max Allowable TDS

Sampling Location: MW-06	Sample Date	11/28/2022	Knox Pit M2017-036	
	Sample Type	Primary		
	Depth to Water	5.66 ft		
Analyte List	Value Units	Dissolved	Detection Limit	Water Quality Standard *
ALUMINUM	MG/L	ND	0.01	**5
ANTIMONY	MG/L	ND	0.002	0.006
ARSENIC	MG/L	ND	0.002	0.01
BARIUM	MG/L	0.0266	0.004	2
BERYLLIUM	MG/L	ND	0.002	0.004
BORON	MG/L	0.0736	0.02	**0.75
CADMIUM	MG/L	ND	0.002	0.005
CHROMIUM	MG/L	ND	0.004	0.1
COBALT	MG/L	ND	0.005	**0.05
COPPER	MG/L	0.0035	0.002	**0.2
CYANIDE, TOTAL	MG/L	ND	0.005	0.2
FLUORIDE	MG/L	0.61	0.1	2
IRON	MG/L	ND	0.2	0.3
LEAD	MG/L	ND	0.002	0.05
LITHIUM	MG/L	0.017	0.005	**2.5
MANGANESE	MG/L	ND	0.005	0.05
MERCURY	MG/L	ND	0.0002	0.002
MOLYBDENUM	MG/L	0.0077	0.005	0.21
NICKEL	MG/L	ND	0.002	0.1
NITRATE AS N	MG/L	NM	1	10
NITRATE/NITRITE AS N	MG/L	4.36	0.2	10
NITRITE AS N	MG/L	NM	0.75	1
PH	PH	8.75	0.1	**6.5-8.5
SELENIUM	MG/L	0.011	0.002	**0.02
SILVER	MG/L	ND	0.002	0.05
THALLIUM	MG/L	ND	0.002	0.002
TOTAL DISSOLVED SOLIDS	MG/L	1180	40	***
URANIUM	MG/L	0.02	0.005	0.03
VANADIUM	MG/L	ND	0.005	**0.1
ZINC	MG/L	ND	0.004	**2
ND = Non-Detect NM= Not Measured * Analytes tested are from Table 1 and 2, Department of Public Health and Environment, WQCC Regulation No. 41 unless noted otherwise ** Table 3, WQCC Regulation 41 *** Table 4, WQCC Regulation 41. Background value x 1.25 = Max Allowable TDS				

Sampling Location: MW-10	Sample Date	11/28/2022	Knox Pit M2017-036	
	Sample Type	Primary		
	Depth to Water			
Analyte List	Value Units	Dissolved	Detection Limit	Water Quality Standard *
ALUMINUM	MG/L	NM	0.01	**5
ANTIMONY	MG/L	NM	0.002	0.006
ARSENIC	MG/L	NM	0.002	0.01
BARIUM	MG/L	NM	0.004	2
BERYLLIUM	MG/L	NM	0.002	0.004
BORON	MG/L	NM	0.02	**0.75
CADMIUM	MG/L	NM	0.002	0.005
CHROMIUM	MG/L	NM	0.004	0.1
COBALT	MG/L	NM	0.005	**0.05
COPPER	MG/L	NM	0.002	**0.2
CYANIDE, TOTAL	MG/L	NM	0.005	0.2
FLUORIDE	MG/L	NM	0.1	2
IRON	MG/L	NM	0.2	0.3
LEAD	MG/L	NM	0.002	0.05
LITHIUM	MG/L	NM	0.005	**2.5
MANGANESE	MG/L	NM	0.005	0.05
MERCURY	MG/L	NM	0.0002	0.002
MOLYBDENUM	MG/L	NM	0.005	0.21
NICKEL	MG/L	NM	0.002	0.1
NITRATE AS N	MG/L	NM	1	10
NITRATE/NITRITE AS N	MG/L	NM	0.2	10
NITRITE AS N	MG/L	NM	0.75	1
PH	PH	NM	0.1	**6.5-8.5
SELENIUM	MG/L	NM	0.002	**0.02
SILVER	MG/L	NM	0.002	0.05
THALLIUM	MG/L	NM	0.002	0.002
TOTAL DISSOLVED SOLIDS	MG/L	NM	40	***
URANIUM	MG/L	NM	0.005	0.03
VANADIUM	MG/L	NM	0.005	**0.1
ZINC	MG/L	NM	0.004	**2
Not enough water to sample MW-10				
ND = Non-Detect NM= Not Measured * Analytes tested are from Table 1 and 2, Department of Public Health and Environment, WQCC Regulation No. 41 unless noted otherwise ** Table 3, WQCC Regulation 41 *** Table 4, WQCC Regulation 41. Background value x 1.25 = Max Allowable TDS				

Sampling Location: MW-12	Sample Date	11/28/2022	11/28/2022	Knox Pit M2017-036	
	Sample Type	Primary	Duplicate		
	Depth to Water	6.13 feet	6.13 feet		
Analyte List	Value Units	Dissolved	Dissolved	Detection Limit	Water Quality Standard *
ALUMINUM	MG/L	ND	0.019	0.01	**5
ANTIMONY	MG/L	ND	ND	0.002	0.006
ARSENIC	MG/L	ND	ND	0.002	0.01
BARIUM	MG/L	0.049	0.051	0.004	2
BERYLLIUM	MG/L	ND	ND	0.002	0.004
BORON	MG/L	0.043	0.045	0.02	**0.75
CADMIUM	MG/L	ND	ND	0.002	0.005
CHROMIUM	MG/L	ND	ND	0.004	0.1
COBALT	MG/L	ND	ND	0.005	**0.05
COPPER	MG/L	ND	ND	0.002	**0.2
CYANIDE, TOTAL	MG/L	ND	ND	0.005	0.2
FLUORIDE	MG/L	0.59	0.65	0.1	2
IRON	MG/L	ND	ND	0.2	0.3
LEAD	MG/L	ND	ND	0.002	0.05
LITHIUM	MG/L	0.014	0.014	0.005	**2.5
MANGANESE	MG/L	ND	ND	0.005	0.05
MERCURY	MG/L	ND	ND	0.0002	0.002
MOLYBDENUM	MG/L	ND	ND	0.005	0.21
NICKEL	MG/L	ND	ND	0.002	0.1
NITRATE AS N	MG/L	NM	NM	1	10
NITRATE/NITRITE AS N	MG/L	ND	ND	0.2	10
NITRITE AS N	MG/L	NM	NM	0.75	1
PH	PH	8.62	8.54	0.1	**6.5-8.5
SELENIUM	MG/L	0.003	0.0029	0.002	**0.02
SILVER	MG/L	ND	ND	0.002	0.05
THALLIUM	MG/L	ND	ND	0.002	0.002
TOTAL DISSOLVED SOLIDS	MG/L	884	896	40	***
URANIUM	MG/L	0.006	0.006	0.005	0.03
VANADIUM	MG/L	ND	ND	0.005	**0.1
ZINC	MG/L	ND	ND	0.004	**2
ND = Non-Detect NM= Not Measured * Analytes tested are from Table 1 and 2, Department of Public Health and Environment, WQCC Regulation No. 41 unless noted otherwise ** Table 3, WQCC Regulation 41 *** Table 4, WQCC Regulation 41. Background value x 1.25 = Max Allowable TDS					

Sampling Location: MW-13	Sample Date	11/28/2022	Knox Pit M2017-036	
	Sample Type	Primary		
	Depth to Water	6.14 feet		
Analyte List	Value Units	Dissolved	Detection Limit	Water Quality Standard *
ALUMINUM	MG/L	0.03	0.01	**5
ANTIMONY	MG/L	ND	0.002	0.006
ARSENIC	MG/L	ND	0.002	0.01
BARIUM	MG/L	0.038	0.004	2
BERYLLIUM	MG/L	ND	0.002	0.004
BORON	MG/L	0.025	0.02	**0.75
CADMIUM	MG/L	ND	0.002	0.005
CHROMIUM	MG/L	ND	0.004	0.1
COBALT	MG/L	ND	0.005	**0.05
COPPER	MG/L	ND	0.002	**0.2
CYANIDE, TOTAL	MG/L	ND	0.005	0.2
FLUORIDE	MG/L	0.36	0.1	4
IRON	MG/L	ND	0.2	**5
LEAD	MG/L	ND	0.002	0.05
LITHIUM	MG/L	0.006	0.005	**2.5
MANGANESE	MG/L	0.015	0.005	**0.2
MERCURY	MG/L	ND	0.0002	0.002
MOLYBDENUM	MG/L	ND	0.005	0.21
NICKEL	MG/L	ND	0.002	0.1
NITRATE AS N	MG/L	NM	1	10
NITRATE/NITRITE AS N	MG/L	ND	0.2	10
NITRITE AS N	MG/L	NM	0.75	1
PH	PH	9.31	0.1	**6.5-8.5
SELENIUM	MG/L	ND	0.002	0.05
SILVER	MG/L	ND	0.002	0.05
THALLIUM	MG/L	ND	0.002	0.002
TOTAL DISSOLVED SOLIDS	MG/L	232	40	***
URANIUM	MG/L	ND	0.005	0.03
VANADIUM	MG/L	ND	0.005	**0.1
ZINC	MG/L	ND	0.004	**2
ND = Non-Detect NM= Not Measured * Analytes tested are from Table 1 and 2, Department of Public Health and Environment, WQCC Regulation No. 41 unless noted otherwise ** Table 3, WQCC Regulation 41 *** Table 4, WQCC Regulation 41. Background value x 1.25 = Max Allowable TDS				

Sampling Location: MW-19	Sample Date	11/28/2022	Knox Pit M2017-036	
	Sample Type	Primary		
	Depth to Water	8.71 feet		
Analyte List	Value Units	Dissolved	Detection Limit	Water Quality Standard *
ALUMINUM	MG/L	ND	0.01	**5
ANTIMONY	MG/L	ND	0.002	0.006
ARSENIC	MG/L	ND	0.002	0.01
BARIUM	MG/L	0.028	0.004	2
BERYLLIUM	MG/L	ND	0.002	0.004
BORON	MG/L	0.024	0.02	**0.75
CADMIUM	MG/L	ND	0.002	0.005
CHROMIUM	MG/L	ND	0.004	0.1
COBALT	MG/L	ND	0.005	**0.05
COPPER	MG/L	ND	0.002	**0.2
CYANIDE, TOTAL	MG/L	ND	0.005	0.2
FLUORIDE	MG/L	0.57	0.1	4
IRON	MG/L	ND	0.2	**5
LEAD	MG/L	ND	0.002	0.05
LITHIUM	MG/L	0.006	0.005	**2.5
MANGANESE	MG/L	ND	0.005	**0.2
MERCURY	MG/L	ND	0.0002	0.002
MOLYBDENUM	MG/L	ND	0.005	0.21
NICKEL	MG/L	ND	0.002	0.1
NITRATE AS N	MG/L	NM	1	10
NITRATE/NITRITE AS N	MG/L	ND	0.2	10
NITRITE AS N	MG/L	NM	0.75	1
PH	PH	8.53	0.1	**6.5-8.5
SELENIUM	MG/L	ND	0.002	0.05
SILVER	MG/L	ND	0.002	0.05
THALLIUM	MG/L	ND	0.002	0.002
TOTAL DISSOLVED SOLIDS	MG/L	168	40	***
URANIUM	MG/L	ND	0.005	0.03
VANADIUM	MG/L	ND	0.005	**0.1
ZINC	MG/L	ND	0.004	**2
ND = Non-Detect NM= Not Measured * Analytes tested are from Table 1 and 2, Department of Public Health and Environment, WQCC Regulation No. 41 unless noted otherwise ** Table 3, WQCC Regulation 41 *** Table 4, WQCC Regulation 41. Background value x 1.25 = Max Allowable TDS				

Sampling Location: 03-Blank	Sample Date	11/28/2022	Knox Pit M2017-036	
	Sample Type	Blank		
	Depth to Water	Distilled Water		
Analyte List	Value Units	Dissolved	Detection Limit	Water Quality Standard *
ALUMINUM	MG/L	ND	0.1	**5
ANTIMONY	MG/L	ND	0.001	0.006
ARSENIC	MG/L	ND	0.002	0.01
BARIUM	MG/L	ND	0.005	2
BERYLLIUM	MG/L	ND	0.0005	0.004
BORON	MG/L	ND	0.15	**0.75
CADMIUM	MG/L	ND	0.002	0.005
CHROMIUM	MG/L	ND	0.01	0.1
COBALT	MG/L	ND	0.005	**0.05
COPPER	MG/L	ND	0.02	**0.2
CYANIDE, TOTAL	MG/L	ND	0.005	0.2
FLUORIDE	MG/L	ND	0.1	4
IRON	MG/L	ND	0.1	**5
LEAD	MG/L	ND	0.002	0.05
LITHIUM	MG/L	ND	0.02	**2.5
MANGANESE	MG/L	ND	0.005	**0.2
MERCURY	MG/L	ND	0.0002	0.002
MOLYBDENUM	MG/L	ND	0.002	0.21
NICKEL	MG/L	ND	0.02	0.1
NITRATE/NITRITE AS N	MG/L	ND	0.02	10
PH	PH	7.99	0.1	**6.5-8.5
SELENIUM	MG/L	ND	0.002	0.05
SILVER	MG/L	ND	0.002	0.05
THALLIUM	MG/L	ND	0.0001	0.002
TOTAL DISSOLVED SOLIDS	MG/L	ND	40	***
URANIUM	MG/L	ND	0.005	0.03
VANADIUM	MG/L	ND	0.005	**0.1
ZINC	MG/L	ND	0.004	**2

ND = Non-Detect

NM= Not Measured

* Analytes tested are from Table 1 and 2, Department of Public Health and Environment, WQCC Regulation No. 41 unless noted otherwise

** Table 3, WQCC Regulation 41

*** Table 4, WQCC Regulation 41. Background value x 1.25 = Max Allowable TDS



Monday, December 20, 2021

Tim Gerken
Telesto Solutions Inc
750 14th Street, SW
Loveland, CO 80537

Re: ALS Workorder: 2112184
Project Name: LRM - Knox Pit
Project Number: 360100

Dear Mr. Gerken:

Seven water samples were received from Telesto Solutions Inc, on 12/8/2021. The samples were scheduled for the following analyses:

Inorganics

Metals

The results for these analyses are contained in the enclosed reports.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental.

Thank you for your confidence in ALS Environmental. Should you have any questions, please call.

Sincerely,

ALS Environmental
Katie M. O'Brien
Project Manager

Accreditations: ALS Environmental – Fort Collins is accredited by the following accreditation bodies for various testing scopes in accordance with requirements of each accreditation body. All testing is performed under the laboratory management system, which is maintained to meet these requirement and regulations. Please contact the laboratory or accreditation body for the current scope testing parameters.

ALS Environmental – Fort Collins	
Accreditation Body	License or Certification Number
Arizona	AZ0828
California (CA)	2926
Colorado (CO)	CO01099
Florida (FL)	E87914
Idaho (ID)	CO01099
Kansas (KS)	E-10381
Kentucky (KY)	90137
Oklahoma	1301
PJLA (DoD ELAP/ISO 170250)	95377
PJLA (DOE-AP/ISO 17025)	95377
Maryland (MD)	285
Missouri (MO)	175
Nebraska(NE)	NE-OS-24-13
Nevada (NV)	CO010992018-1
New York (NY)	12036
North Dakota (ND)	R-057
Oklahoma (OK)	1301
Pennsylvania (PA)	68-03116
Tennessee (TN)	TN02976
Texas (TX)	T104704241
Utah (UT)	CO01099
Washington (WA)	C1280
Virginia	460305

40 CFR Part 136: All analyses for Clean Water Act samples are analyzed using the 40 CFR Part 136 specified method and include all the QC requirements.



2112184

Metals:

The samples were analyzed following SW-846, 3rd Edition procedures. Analysis by ICPMS followed method 6020B and the current revision of SOP 827. Mercury analysis by CVAA followed method 7470A and the current revision of SOP 812.

The samples for dissolved metals had been filtered prior to receipt, and had a pH less than 2 upon receipt.

All acceptance criteria were met.

Inorganics:

The samples were analyzed following SW-846, EMSL and Standard Method procedures for the current revisions of the following SOPs and methods:

<u>Analyte</u>	<u>Method</u>	<u>SOP #</u>
Alkalinity	SM2320B	1106
Bicarbonate	SM2320B	1106
Carbonate	SM2320B	1106
Total cyanide	9014	1110
Nitrate/nitrite as N	353.2 Revision 2.0	1127
pH	SM4500-H ⁺ B	1126
TDS	SM2540C	1101
Chloride	300.0 Revision 2.1	1113
Fluoride	300.0 Revision 2.1	1113
Sulfate	300.0 Revision 2.1	1113

All laboratory control sample criteria were met with the exception of the RPD for TDS. Since the recoveries for TDS in the laboratory control sample and laboratory control sample duplicate were within control limits, with only the RPD exceeding acceptance criteria, no further action was taken.

All other acceptance criteria were met.

ALS -- Fort Collins

Sample Number(s) Cross-Reference Table

OrderNum: 2112184

Client Name: Telesto Solutions Inc

Client Project Name: LRM - Knox Pit

Client Project Number: 360100

Client PO Number:

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
MW-06	2112184-1		WATER	08-Dec-21	12:00
MW-10	2112184-2		WATER	08-Dec-21	13:08
02-MW-10	2112184-3		WATER	08-Dec-21	13:12
03-Blank	2112184-4		WATER	08-Dec-21	13:20
MW-13	2112184-5		WATER	08-Dec-21	13:55
MW-12	2112184-6		WATER	08-Dec-21	14:22
MW-19	2112184-7		WATER	08-Dec-21	15:31



ALS Environmental

225 Commerce Drive, Fort Collins, Colorado 80524
TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522

2112184

Chain-of-Custody

Form 202a

PROJECT NAME	LRM-Knox Pit	SAMPLER	Tim Gerken	DATE	12/8/21	WORKORDER #	
PROJECT NO.	360100	SITE ID		TURNAROUND		PAGE	1 of 3
COMPANY NAME	Teleso Solutions	EDD FORMAT				DISPOSAL	By Lab or Return to Client
SEND REPORT TO	Tim Gerken	PURCHASE ORDER					
ADDRESS		BILL TO COMPANY					
CITY / STATE / ZIP		INVOICE ATTN TO					
PHONE	720-438-5513	ADDRESS					
FAX		CITY / STATE / ZIP					
E-MAIL	timgerken@teleso-inc.com	PHONE					
		FAX					
		E-MAIL					
Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC
1	MW-06		12/8/21	12:00	1	-	X
	MW-06				1	2	X
	MW-06				1	3	X
	MW-06				1	4	X
	MW-10			13:08	1	-	X
	MW-10				1	2	X
	MW-10				1	3	X
	MW-10				1	4	X
2	02-MW-10			13:12	1	-	X
	02-MW-10			13:12	1	2	X

*Time Zone (Circle): EST CST MST PST Matrix O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

For metals or anions, please detail analytes below.

Comments:	QC PACKAGE (check below)
Dissolved Metals Field Filtrate	LEVEL II (Standard QC)
	LEVEL III (Std QC + forms)
	LEVEL IV (Std QC + forms + raw data)
Preservative Key:	1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035

RELINQUISHED BY	SIGNATURE	PRINTED NAME	DATE	TIME
RECEIVED BY	Tim Gerken	Tim Gerken	12/8/21	16:00
RELINQUISHED BY		Amy Kepner	12/8/21	16:50
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				



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2112184

Chain-of-Custody

Form 202r8

PROJECT NAME	LRM-Knox Pit	SAMPLER	Tim Gerken	DATE	12/13/21	WORKORDER #	
PROJECT No.	360100	SITE ID		TURNAROUND		PAGE	2 of 3
COMPANY NAME	Telesto	EDD FORMAT				DISPOSAL	By Lab or Return to Client
SEND REPORT TO		PURCHASE ORDER					
ADDRESS		BILL TO COMPANY					
CITY / STATE / ZIP		INVOICE ATTN TO					
PHONE		ADDRESS					
FAX		CITY / STATE / ZIP					
E-MAIL		PHONE					
		FAX					
		E-MAIL					
Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC
3	02-MW-10	W	12/13/21	13:12	1	3	
	02-MW-10			13:20	1	4	
	03-Blank			13:20	1		
	03-Blank			13:20	1		
	03-Blank			13:20	1		
	03-Blank			13:20	1		
	MW-13			13:55	1		
	MW-13			13:55	1		
	MW-13			13:55	1		
	MW-13			13:55	1		

*Time Zone (Circle): EST CST MST PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

For metals or anions, please detail analytes below.

Comments: Dissolved Metals Field Filter	QC PACKAGE (check below)			
	LEVEL II (Standard QC)	LEVEL III (Std QC + forms)	LEVEL IV (Std QC + forms + raw data)	
Preservative Key:		1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035		

RELINQUISHED BY	SIGNATURE	PRINTED NAME	DATE	TIME
RECEIVED BY	Tim Gerken	Tim Gerken	12/13/21	16:00
RELINQUISHED BY			12/13/21	16:30
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

12 4.20



ALS Environmental

225 Commerce Drive, Fort Collins, Colorado 80524
TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522

2112184

Chain-of-Custody

WORKORDER #	
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Form 2024b

PROJECT NAME	LRM-Knox Pit	SAMPLER	Tim Gerken	DATE	12/8/21	PAGE	3 of 3
PROJECT No.	360600	SITE ID		TURNAROUND		DISPOSAL	By Lab or Return to Client
COMPANY NAME	Telesis	EDD FORMAT					
SEND REPORT TO		PURCHASE ORDER					
ADDRESS	SAME AS	BILL TO COMPANY					
CITY/STATE/ZIP	PAGE 4	INVOICE ATTN TO					
PHONE		ADDRESS					
FAX		CITY/STATE/ZIP					
E-MAIL		PHONE					
		FAX					
		E-MAIL					
Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC
[]	MW-12	W	12/8/21	14:22	1	-	X
[]	MW-12			14:22	1	2	X
[]	MW-12			14:22	1	3	X
[]	MW-12			14:22	1	4	X
[]	MW-19			15:31	1	-	X
[]	MW-19			15:31	1	2	X
[]	MW-19			15:31	1	3	X
[]	MW-19			15:31	1	4	X

*Time Zone (Circle): EST CST MST PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

For metals or anions, please detail analytes below.

Comments:	QC PACKAGE (check below)
Dissolved Metals Field Filtered	LEVEL II (Standard QC)
	LEVEL III (Std QC + forms)
	LEVEL IV (Std QC + forms + raw data)
Preservative Key:	1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035

RELINQUISHED BY	SIGNATURE	PRINTED NAME	DATE	TIME
RECEIVED BY	Tim Gerken	Tim Gerken	12/8/21	16:00
RELINQUISHED BY	Amel Kefran	Amel Kefran	12/8/21	14:30
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

2 4.8°



ALS Environmental - Fort Collins
CONDITION OF SAMPLE UPON RECEIPT FORM

Client: TELESTO Workorder No: 2112184
 Project Manager: KMO Initials: AXK Date: 12/09/2021

				N/A	YES	NO
1. Are airbills / shipping documents present and/or removable?				X		
Tracking number:						
2. Are custody seals on shipping containers intact?				X		
3. Are custody seals on sample containers intact?				X		
4. Is there a COC (chain-of-custody) present?					X	
5. Is the COC in agreement with samples received? (IDs, dates, times, # of samples, # of containers, matrix, requested analyses, etc.)					X	
6. Are short-hold samples present?					X	
7. Are all samples within holding times for the requested analyses?					X	
8. Were all sample containers received intact? (not broken or leaking)					X	
9. Is there sufficient sample for the requested analyses?					X	
10. Are samples in proper containers for requested analyses? (form 250, <i>Sample Handling Guidelines</i>)					X	
11. Are all aqueous samples preserved correctly, if required? (excluding volatiles)						X
12. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, radon) free of bubbles > 6 mm (1/4 inch) diameter? (i.e. size of green pea)				X		
13. Were the samples shipped on ice?					X	
14. Were cooler temperatures measured at 0.1-6.0°C?				IR gun used*: #5	RAD ONLY	X
Cooler #: <u>1</u> Temperature (°C): <u>4.8</u> # of custody seals on cooler: <u>0</u> External µR/hr reading: <u>-</u> Background µR/hr reading: <u>12</u> Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? <u>NA</u> (If no, see Form 008.)						

* Please provide details here for NO responses to boxes above - for 2 thru 5 & 7 thru 12, notify PM & continue w/ login.

Sample 6 bottle 2 had initial pH of 6; added 0.5ml HNO3 lot 267725 to achieve pH <2.

Were unpreserved bottles pH checked? NA

All client bottle ID's vs ALS lab ID's double-checked by AK

If applicable, was the client contacted? YES / NO / NA Contact: _____ Date/Time: _____

Project Manager Signature / Date: [Signature] 12/12/21

ALS -- Fort Collins

SAMPLE SUMMARY REPORT

Client: Telesto Solutions Inc
 Project: 360100 LRM - Knox Pit
 Sample ID: MW-06
 Legal Location:
 Collection Date: 12/8/2021 12:00

Date: 20-Dec-21
 Work Order: 2112184
 Lab ID: 2112184-1
 Matrix: WATER
 Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Alkalinity as Calcium Carbonate		SM2320B			Prep Date: 12/13/2021	PrepBy: KRL
BICARBONATE AS CaCO3	270		20	MG/L	1	12/13/2021
CARBONATE AS CaCO3	ND		20	MG/L	1	12/13/2021
TOTAL ALKALINITY AS CaCO3	270		20	MG/L	1	12/13/2021
Dissolved ICPMS Metals		SW6020			Prep Date: 12/14/2021	PrepBy: ETC
SILVER	ND		0.5	UG/L	10	12/16/2021 13:35
ALUMINUM	ND		100	UG/L	10	12/16/2021 13:35
ARSENIC	ND		2	UG/L	10	12/16/2021 13:35
BORON	ND		150	UG/L	10	12/16/2021 13:35
BARIUM	37		5	UG/L	10	12/16/2021 13:35
BERYLLIUM	ND		0.5	UG/L	10	12/16/2021 13:35
CALCIUM	520000		1000	UG/L	10	12/16/2021 13:35
CADMIUM	ND		2	UG/L	10	12/16/2021 13:35
COBALT	ND		5	UG/L	10	12/16/2021 13:35
CHROMIUM	ND		10	UG/L	10	12/16/2021 13:35
COPPER	ND		20	UG/L	10	12/16/2021 13:35
IRON	ND		100	UG/L	10	12/16/2021 13:35
POTASSIUM	5700		1000	UG/L	10	12/16/2021 13:35
LITHIUM	23		20	UG/L	10	12/16/2021 13:35
MAGNESIUM	28000		100	UG/L	10	12/16/2021 13:35
MANGANESE	ND		10	UG/L	10	12/16/2021 13:35
MOLYBDENUM	5.6		2	UG/L	10	12/16/2021 13:35
SODIUM	17000		1000	UG/L	10	12/16/2021 13:35
NICKEL	ND		20	UG/L	10	12/16/2021 13:35
LEAD	ND		2	UG/L	10	12/16/2021 13:35
ANTIMONY	ND		1	UG/L	10	12/16/2021 13:35
SELENIUM	26		10	UG/L	10	12/16/2021 13:35
THALLIUM	ND		0.15	UG/L	10	12/16/2021 13:35
URANIUM	37		0.1	UG/L	10	12/16/2021 13:35
VANADIUM	ND		5	UG/L	10	12/16/2021 13:35
ZINC	ND		100	UG/L	10	12/16/2021 13:35
Ion Chromatography		EPA300.0			Prep Date: 12/14/2021	PrepBy: AOW
CHLORIDE	20		2	MG/L	10	12/14/2021 11:56
FLUORIDE	ND		1	MG/L	10	12/14/2021 11:56
SULFATE	1200		20	MG/L	20	12/14/2021 15:29
Dissolved Mercury		SW7470			Prep Date: 12/17/2021	PrepBy: JSD
MERCURY	ND		0.0002	MG/L	1	12/17/2021 14:15
Nitrate/Nitrite as N		EPA353.2			Prep Date: 12/17/2021	PrepBy: AOW
NITRATE/NITRITE AS N	1.5		0.2	MG/L	10	12/17/2021 10:37
pH		SM4500-H			Prep Date: 12/13/2021	PrepBy: KRL
PH	6.63		0.1	pH	1	12/13/2021
Total Cyanide		SW9014			Prep Date: 12/20/2021	PrepBy: AOW
CYANIDE, TOTAL	ND		0.015	MG/L	1	12/20/2021
Total Dissolved Solids		SM2540C			Prep Date: 12/13/2021	PrepBy: BMK

Client:	Telesto Solutions Inc	Date:	20-Dec-21
Project:	360100 LRM - Knox Pit	Work Order:	2112184
Sample ID:	MW-06	Lab ID:	2112184-1
Legal Location:		Matrix:	WATER
Collection Date:	12/8/2021 12:00	Percent Moisture:	

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TOTAL DISSOLVED SOLIDS	2000		40	MG/L	1	12/15/2021

ALS -- Fort Collins

SAMPLE SUMMARY REPORT

Client: Telesto Solutions Inc
 Project: 360100 LRM - Knox Pit
 Sample ID: MW-10
 Legal Location:
 Collection Date: 12/8/2021 13:08

Date: 20-Dec-21
 Work Order: 2112184
 Lab ID: 2112184-2
 Matrix: WATER
 Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Alkalinity as Calcium Carbonate		SM2320B			Prep Date: 12/13/2021	PrepBy: KRL
BICARBONATE AS CaCO3	260		20	MG/L	1	12/13/2021
CARBONATE AS CaCO3	ND		20	MG/L	1	12/13/2021
TOTAL ALKALINITY AS CaCO3	260		20	MG/L	1	12/13/2021
Dissolved ICPMS Metals		SW6020			Prep Date: 12/14/2021	PrepBy: ETC
SILVER	ND		0.5	UG/L	10	12/16/2021 13:38
ALUMINUM	ND		100	UG/L	10	12/16/2021 13:38
ARSENIC	ND		2	UG/L	10	12/16/2021 13:38
BORON	ND		150	UG/L	10	12/16/2021 13:38
BARIUM	22		5	UG/L	10	12/16/2021 13:38
BERYLLIUM	ND		0.5	UG/L	10	12/16/2021 13:38
CALCIUM	370000		1000	UG/L	10	12/16/2021 13:38
CADMIUM	ND		2	UG/L	10	12/16/2021 13:38
COBALT	ND		5	UG/L	10	12/16/2021 13:38
CHROMIUM	ND		10	UG/L	10	12/16/2021 13:38
COPPER	ND		20	UG/L	10	12/16/2021 13:38
IRON	ND		100	UG/L	10	12/16/2021 13:38
POTASSIUM	3100		1000	UG/L	10	12/16/2021 13:38
LITHIUM	26		20	UG/L	10	12/16/2021 13:38
MAGNESIUM	22000		100	UG/L	10	12/16/2021 13:38
MANGANESE	ND		10	UG/L	10	12/16/2021 13:38
MOLYBDENUM	2.7		2	UG/L	10	12/16/2021 13:38
SODIUM	19000		1000	UG/L	10	12/16/2021 13:38
NICKEL	ND		20	UG/L	10	12/16/2021 13:38
LEAD	ND		2	UG/L	10	12/16/2021 13:38
ANTIMONY	ND		1	UG/L	10	12/16/2021 13:38
SELENIUM	17		10	UG/L	10	12/16/2021 13:38
THALLIUM	ND		0.15	UG/L	10	12/16/2021 13:38
URANIUM	30		0.1	UG/L	10	12/16/2021 13:38
VANADIUM	ND		5	UG/L	10	12/16/2021 13:38
ZINC	ND		100	UG/L	10	12/16/2021 13:38
Ion Chromatography		EPA300.0			Prep Date: 12/14/2021	PrepBy: AOW
CHLORIDE	23		2	MG/L	10	12/14/2021 12:02
FLUORIDE	ND		1	MG/L	10	12/14/2021 12:02
SULFATE	880		10	MG/L	10	12/14/2021 12:02
Dissolved Mercury		SW7470			Prep Date: 12/17/2021	PrepBy: JSD
MERCURY	ND		0.0002	MG/L	1	12/17/2021 14:17
Nitrate/Nitrite as N		EPA353.2			Prep Date: 12/17/2021	PrepBy: AOW
NITRATE/NITRITE AS N	2.2		0.2	MG/L	10	12/17/2021 10:38
pH		SM4500-H			Prep Date: 12/13/2021	PrepBy: KRL
PH	6.95		0.1	pH	1	12/13/2021
Total Cyanide		SW9014			Prep Date: 12/20/2021	PrepBy: AOW
CYANIDE, TOTAL	ND		0.015	MG/L	1	12/20/2021
Total Dissolved Solids		SM2540C			Prep Date: 12/13/2021	PrepBy: BMK

Client:	Telesto Solutions Inc	Date:	20-Dec-21
Project:	360100 LRM - Knox Pit	Work Order:	2112184
Sample ID:	MW-10	Lab ID:	2112184-2
Legal Location:		Matrix:	WATER
Collection Date:	12/8/2021 13:08	Percent Moisture:	

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TOTAL DISSOLVED SOLIDS	1500		40	MG/L	1	12/15/2021

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SAMPLE SUMMARY REPORT

Client: Telesto Solutions Inc
 Project: 360100 LRM - Knox Pit
 Sample ID: 02-MW-10
 Legal Location:
 Collection Date: 12/8/2021 13:12

Date: 20-Dec-21
 Work Order: 2112184
 Lab ID: 2112184-3
 Matrix: WATER
 Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Alkalinity as Calcium Carbonate						
			SM2320B		Prep Date: 12/13/2021	PrepBy: KRL
BICARBONATE AS CaCO3	270		20	MG/L	1	12/13/2021
CARBONATE AS CaCO3	ND		20	MG/L	1	12/13/2021
TOTAL ALKALINITY AS CaCO3	270		20	MG/L	1	12/13/2021
Dissolved ICPMS Metals						
			SW6020		Prep Date: 12/14/2021	PrepBy: ETC
SILVER	ND		0.5	UG/L	10	12/16/2021 13:41
ALUMINUM	ND		100	UG/L	10	12/16/2021 13:41
ARSENIC	ND		2	UG/L	10	12/16/2021 13:41
BORON	ND		150	UG/L	10	12/16/2021 13:41
BARIUM	21		5	UG/L	10	12/16/2021 13:41
BERYLLIUM	ND		0.5	UG/L	10	12/16/2021 13:41
CALCIUM	370000		1000	UG/L	10	12/16/2021 13:41
CADMIUM	ND		2	UG/L	10	12/16/2021 13:41
COBALT	ND		5	UG/L	10	12/16/2021 13:41
CHROMIUM	ND		10	UG/L	10	12/16/2021 13:41
COPPER	ND		20	UG/L	10	12/16/2021 13:41
IRON	ND		100	UG/L	10	12/16/2021 13:41
POTASSIUM	3100		1000	UG/L	10	12/16/2021 13:41
LITHIUM	26		20	UG/L	10	12/16/2021 13:41
MAGNESIUM	22000		100	UG/L	10	12/16/2021 13:41
MANGANESE	ND		10	UG/L	10	12/16/2021 13:41
MOLYBDENUM	3		2	UG/L	10	12/16/2021 13:41
SODIUM	20000		1000	UG/L	10	12/16/2021 13:41
NICKEL	ND		20	UG/L	10	12/16/2021 13:41
LEAD	ND		2	UG/L	10	12/16/2021 13:41
ANTIMONY	ND		1	UG/L	10	12/16/2021 13:41
SELENIUM	19		10	UG/L	10	12/16/2021 13:41
THALLIUM	ND		0.15	UG/L	10	12/16/2021 13:41
URANIUM	31		0.1	UG/L	10	12/16/2021 13:41
VANADIUM	ND		5	UG/L	10	12/16/2021 13:41
ZINC	ND		100	UG/L	10	12/16/2021 13:41
Ion Chromatography						
			EPA300.0		Prep Date: 12/14/2021	PrepBy: AOW
CHLORIDE	24		2	MG/L	10	12/14/2021 12:08
FLUORIDE	ND		1	MG/L	10	12/14/2021 12:08
SULFATE	890		10	MG/L	10	12/14/2021 12:08
Dissolved Mercury						
			SW7470		Prep Date: 12/17/2021	PrepBy: JSD
MERCURY	ND		0.0002	MG/L	1	12/17/2021 14:19
Nitrate/Nitrite as N						
			EPA353.2		Prep Date: 12/17/2021	PrepBy: AOW
NITRATE/NITRITE AS N	2.2		0.2	MG/L	10	12/17/2021 10:38
pH						
			SM4500-H		Prep Date: 12/13/2021	PrepBy: KRL
PH	7.2		0.1	pH	1	12/13/2021
Total Cyanide						
			SW9014		Prep Date: 12/20/2021	PrepBy: AOW
CYANIDE, TOTAL	ND		0.015	MG/L	1	12/20/2021
Total Dissolved Solids						
			SM2540C		Prep Date: 12/13/2021	PrepBy: BMK

Client:	Telesto Solutions Inc	Date:	20-Dec-21
Project:	360100 LRM - Knox Pit	Work Order:	2112184
Sample ID:	02-MW-10	Lab ID:	2112184-3
Legal Location:		Matrix:	WATER
Collection Date:	12/8/2021 13:12	Percent Moisture:	

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TOTAL DISSOLVED SOLIDS	1500		40	MG/L	1	12/15/2021

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SAMPLE SUMMARY REPORT

Client: Telesto Solutions Inc
Project: 360100 LRM - Knox Pit
Sample ID: 03-Blank
Legal Location:
Collection Date: 12/8/2021 13:20

Date: 20-Dec-21
Work Order: 2112184
Lab ID: 2112184-4
Matrix: WATER
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Alkalinity as Calcium Carbonate						
			SM2320B		Prep Date: 12/13/2021	PrepBy: KRL
BICARBONATE AS CaCO3	ND		5	MG/L	1	12/13/2021
CARBONATE AS CaCO3	ND		5	MG/L	1	12/13/2021
TOTAL ALKALINITY AS CaCO3	ND		5	MG/L	1	12/13/2021
Dissolved ICPMS Metals						
			SW6020		Prep Date: 12/14/2021	PrepBy: ETC
SILVER	ND		0.5	UG/L	10	12/16/2021 13:44
ALUMINUM	ND		100	UG/L	10	12/16/2021 13:44
ARSENIC	ND		2	UG/L	10	12/16/2021 13:44
BORON	ND		150	UG/L	10	12/16/2021 13:44
BARIUM	ND		5	UG/L	10	12/16/2021 13:44
BERYLLIUM	ND		0.5	UG/L	10	12/16/2021 13:44
CALCIUM	ND		1000	UG/L	10	12/16/2021 13:44
CADMIUM	ND		2	UG/L	10	12/16/2021 13:44
COBALT	ND		5	UG/L	10	12/16/2021 13:44
CHROMIUM	ND		10	UG/L	10	12/16/2021 13:44
COPPER	ND		20	UG/L	10	12/16/2021 13:44
IRON	ND		100	UG/L	10	12/16/2021 13:44
POTASSIUM	ND		1000	UG/L	10	12/16/2021 13:44
LITHIUM	ND		20	UG/L	10	12/16/2021 13:44
MAGNESIUM	ND		100	UG/L	10	12/16/2021 13:44
MANGANESE	ND		10	UG/L	10	12/16/2021 13:44
MOLYBDENUM	ND		2	UG/L	10	12/16/2021 13:44
SODIUM	1100		1000	UG/L	10	12/16/2021 13:44
NICKEL	ND		20	UG/L	10	12/16/2021 13:44
LEAD	ND		2	UG/L	10	12/16/2021 13:44
ANTIMONY	ND		1	UG/L	10	12/16/2021 13:44
SELENIUM	ND		10	UG/L	10	12/16/2021 13:44
THALLIUM	ND		0.15	UG/L	10	12/16/2021 13:44
URANIUM	ND		0.1	UG/L	10	12/16/2021 13:44
VANADIUM	ND		5	UG/L	10	12/16/2021 13:44
ZINC	ND		100	UG/L	10	12/16/2021 13:44
Ion Chromatography						
			EPA300.0		Prep Date: 12/14/2021	PrepBy: AOW
CHLORIDE	0.68		0.2	MG/L	1	12/14/2021 12:14
FLUORIDE	ND		0.1	MG/L	1	12/14/2021 12:14
SULFATE	1.5		1	MG/L	1	12/14/2021 12:14
Dissolved Mercury						
			SW7470		Prep Date: 12/17/2021	PrepBy: JSD
MERCURY	ND		0.0002	MG/L	1	12/17/2021 14:21
Nitrate/Nitrite as N						
			EPA353.2		Prep Date: 12/17/2021	PrepBy: AOW
NITRATE/NITRITE AS N	ND		0.2	MG/L	10	12/17/2021 10:41
pH						
			SM4500-H		Prep Date: 12/13/2021	PrepBy: KRL
PH	8.2		0.1	pH	1	12/13/2021
Total Cyanide						
			SW9014		Prep Date: 12/20/2021	PrepBy: AOW
CYANIDE, TOTAL	ND		0.015	MG/L	1	12/20/2021
Total Dissolved Solids						
			SM2540C		Prep Date: 12/13/2021	PrepBy: BMK

Client:	Telesto Solutions Inc	Date:	20-Dec-21
Project:	360100 LRM - Knox Pit	Work Order:	2112184
Sample ID:	03-Blank	Lab ID:	2112184-4
Legal Location:		Matrix:	WATER
Collection Date:	12/8/2021 13:20	Percent Moisture:	

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TOTAL DISSOLVED SOLIDS	700		400	MG/L	1	12/15/2021

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SAMPLE SUMMARY REPORT

Client: Telesto Solutions Inc
 Project: 360100 LRM - Knox Pit
 Sample ID: MW-13
 Legal Location:
 Collection Date: 12/8/2021 13:55

Date: 20-Dec-21
 Work Order: 2112184
 Lab ID: 2112184-5
 Matrix: WATER
 Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Alkalinity as Calcium Carbonate		SM2320B			Prep Date: 12/13/2021	PrepBy: KRL
BICARBONATE AS CaCO3	130		20	MG/L	1	12/13/2021
CARBONATE AS CaCO3	ND		20	MG/L	1	12/13/2021
TOTAL ALKALINITY AS CaCO3	130		20	MG/L	1	12/13/2021
Dissolved ICPMS Metals		SW6020			Prep Date: 12/14/2021	PrepBy: ETC
SILVER	ND		0.5	UG/L	10	12/16/2021 13:47
ALUMINUM	ND		100	UG/L	10	12/16/2021 13:47
ARSENIC	ND		2	UG/L	10	12/16/2021 13:47
BORON	ND		150	UG/L	10	12/16/2021 13:47
BARIUM	31		5	UG/L	10	12/16/2021 13:47
BERYLLIUM	ND		0.5	UG/L	10	12/16/2021 13:47
CALCIUM	44000		1000	UG/L	10	12/16/2021 13:47
CADMIUM	ND		2	UG/L	10	12/16/2021 13:47
COBALT	ND		5	UG/L	10	12/16/2021 13:47
CHROMIUM	ND		10	UG/L	10	12/16/2021 13:47
COPPER	ND		20	UG/L	10	12/16/2021 13:47
IRON	ND		100	UG/L	10	12/16/2021 13:47
POTASSIUM	ND		1000	UG/L	10	12/16/2021 13:47
LITHIUM	ND		20	UG/L	10	12/16/2021 13:47
MAGNESIUM	5100		100	UG/L	10	12/16/2021 13:47
MANGANESE	ND		10	UG/L	10	12/16/2021 13:47
MOLYBDENUM	2.7		2	UG/L	10	12/16/2021 13:47
SODIUM	4600		1000	UG/L	10	12/16/2021 13:47
NICKEL	ND		20	UG/L	10	12/16/2021 13:47
LEAD	ND		2	UG/L	10	12/16/2021 13:47
ANTIMONY	ND		1	UG/L	10	12/16/2021 13:47
SELENIUM	ND		10	UG/L	10	12/16/2021 13:47
THALLIUM	ND		0.15	UG/L	10	12/16/2021 13:47
URANIUM	1.1		0.1	UG/L	10	12/16/2021 13:47
VANADIUM	ND		5	UG/L	10	12/16/2021 13:47
ZINC	ND		100	UG/L	10	12/16/2021 13:47
Ion Chromatography		EPA300.0			Prep Date: 12/14/2021	PrepBy: AOW
CHLORIDE	3.1		1	MG/L	5	12/14/2021 12:27
FLUORIDE	ND		0.5	MG/L	5	12/14/2021 12:27
SULFATE	16		5	MG/L	5	12/14/2021 12:27
Dissolved Mercury		SW7470			Prep Date: 12/17/2021	PrepBy: JSD
MERCURY	ND		0.0002	MG/L	1	12/17/2021 14:24
Nitrate/Nitrite as N		EPA353.2			Prep Date: 12/17/2021	PrepBy: AOW
NITRATE/NITRITE AS N	ND		0.2	MG/L	10	12/17/2021 10:42
pH		SM4500-H			Prep Date: 12/13/2021	PrepBy: KRL
PH	7.41		0.1	pH	1	12/13/2021
Total Cyanide		SW9014			Prep Date: 12/20/2021	PrepBy: AOW
CYANIDE, TOTAL	ND		0.015	MG/L	1	12/20/2021
Total Dissolved Solids		SM2540C			Prep Date: 12/13/2021	PrepBy: BMK

Client:	Telesto Solutions Inc	Date:	20-Dec-21
Project:	360100 LRM - Knox Pit	Work Order:	2112184
Sample ID:	MW-13	Lab ID:	2112184-5
Legal Location:		Matrix:	WATER
Collection Date:	12/8/2021 13:55	Percent Moisture:	

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TOTAL DISSOLVED SOLIDS	200		20	MG/L	1	12/15/2021

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SAMPLE SUMMARY REPORT

Client: Telesto Solutions Inc
 Project: 360100 LRM - Knox Pit
 Sample ID: MW-12
 Legal Location:
 Collection Date: 12/8/2021 14:22

Date: 20-Dec-21
 Work Order: 2112184
 Lab ID: 2112184-6
 Matrix: WATER
 Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Alkalinity as Calcium Carbonate		SM2320B			Prep Date: 12/13/2021	PrepBy: KRL
BICARBONATE AS CaCO3	140		20	MG/L	1	12/13/2021
CARBONATE AS CaCO3	ND		20	MG/L	1	12/13/2021
TOTAL ALKALINITY AS CaCO3	140		20	MG/L	1	12/13/2021
Dissolved ICPMS Metals		SW6020			Prep Date: 12/14/2021	PrepBy: ETC
SILVER	ND		0.5	UG/L	10	12/16/2021 13:50
ALUMINUM	ND		100	UG/L	10	12/16/2021 13:50
ARSENIC	ND		2	UG/L	10	12/16/2021 13:50
BORON	ND		150	UG/L	10	12/16/2021 13:50
BARIUM	31		5	UG/L	10	12/16/2021 13:50
BERYLLIUM	ND		0.5	UG/L	10	12/16/2021 13:50
CALCIUM	130000		1000	UG/L	10	12/16/2021 13:50
CADMIUM	ND		2	UG/L	10	12/16/2021 13:50
COBALT	ND		5	UG/L	10	12/16/2021 13:50
CHROMIUM	ND		10	UG/L	10	12/16/2021 13:50
COPPER	ND		20	UG/L	10	12/16/2021 13:50
IRON	ND		100	UG/L	10	12/16/2021 13:50
POTASSIUM	1300		1000	UG/L	10	12/16/2021 13:50
LITHIUM	ND		20	UG/L	10	12/16/2021 13:50
MAGNESIUM	9700		100	UG/L	10	12/16/2021 13:50
MANGANESE	ND		10	UG/L	10	12/16/2021 13:50
MOLYBDENUM	4.2		2	UG/L	10	12/16/2021 13:50
SODIUM	12000		1000	UG/L	10	12/16/2021 13:50
NICKEL	ND		20	UG/L	10	12/16/2021 13:50
LEAD	ND		2	UG/L	10	12/16/2021 13:50
ANTIMONY	ND		1	UG/L	10	12/16/2021 13:50
SELENIUM	ND		10	UG/L	10	12/16/2021 13:50
THALLIUM	ND		0.15	UG/L	10	12/16/2021 13:50
URANIUM	3.2		0.1	UG/L	10	12/16/2021 13:50
VANADIUM	ND		5	UG/L	10	12/16/2021 13:50
ZINC	ND		100	UG/L	10	12/16/2021 13:50
Ion Chromatography		EPA300.0			Prep Date: 12/14/2021	PrepBy: AOW
CHLORIDE	9		1	MG/L	5	12/14/2021 12:33
FLUORIDE	0.65		0.5	MG/L	5	12/14/2021 12:33
SULFATE	260		5	MG/L	5	12/14/2021 12:33
Dissolved Mercury		SW7470			Prep Date: 12/17/2021	PrepBy: JSD
MERCURY	ND		0.0002	MG/L	1	12/17/2021 14:26
Nitrate/Nitrite as N		EPA353.2			Prep Date: 12/17/2021	PrepBy: AOW
NITRATE/NITRITE AS N	ND		0.2	MG/L	10	12/17/2021 10:42
pH		SM4500-H			Prep Date: 12/13/2021	PrepBy: KRL
PH	7.27		0.1	pH	1	12/13/2021
Total Cyanide		SW9014			Prep Date: 12/20/2021	PrepBy: AOW
CYANIDE, TOTAL	ND		0.015	MG/L	1	12/20/2021
Total Dissolved Solids		SM2540C			Prep Date: 12/13/2021	PrepBy: BMK

Client:	Telesto Solutions Inc	Date:	20-Dec-21
Project:	360100 LRM - Knox Pit	Work Order:	2112184
Sample ID:	MW-12	Lab ID:	2112184-6
Legal Location:		Matrix:	WATER
Collection Date:	12/8/2021 14:22	Percent Moisture:	

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TOTAL DISSOLVED SOLIDS	570		20	MG/L	1	12/15/2021

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SAMPLE SUMMARY REPORT

Client: Telesto Solutions Inc
 Project: 360100 LRM - Knox Pit
 Sample ID: MW-19
 Legal Location:
 Collection Date: 12/8/2021 15:31

Date: 20-Dec-21
 Work Order: 2112184
 Lab ID: 2112184-7
 Matrix: WATER
 Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Alkalinity as Calcium Carbonate		SM2320B			Prep Date: 12/13/2021	PrepBy: KRL
BICARBONATE AS CaCO3	150		20	MG/L	1	12/13/2021
CARBONATE AS CaCO3	ND		20	MG/L	1	12/13/2021
TOTAL ALKALINITY AS CaCO3	150		20	MG/L	1	12/13/2021
Dissolved ICPMS Metals		SW6020			Prep Date: 12/14/2021	PrepBy: ETC
SILVER	ND		0.5	UG/L	10	12/16/2021 13:53
ALUMINUM	ND		100	UG/L	10	12/16/2021 13:53
ARSENIC	ND		2	UG/L	10	12/16/2021 13:53
BORON	ND		150	UG/L	10	12/16/2021 13:53
BARIUM	52		5	UG/L	10	12/16/2021 13:53
BERYLLIUM	ND		0.5	UG/L	10	12/16/2021 13:53
CALCIUM	72000		1000	UG/L	10	12/16/2021 13:53
CADMIUM	ND		2	UG/L	10	12/16/2021 13:53
COBALT	ND		5	UG/L	10	12/16/2021 13:53
CHROMIUM	ND		10	UG/L	10	12/16/2021 13:53
COPPER	ND		20	UG/L	10	12/16/2021 13:53
IRON	ND		100	UG/L	10	12/16/2021 13:53
POTASSIUM	1300		1000	UG/L	10	12/16/2021 13:53
LITHIUM	ND		20	UG/L	10	12/16/2021 13:53
MAGNESIUM	8800		100	UG/L	10	12/16/2021 13:53
MANGANESE	ND		10	UG/L	10	12/16/2021 13:53
MOLYBDENUM	2.4		2	UG/L	10	12/16/2021 13:53
SODIUM	6800		1000	UG/L	10	12/16/2021 13:53
NICKEL	ND		20	UG/L	10	12/16/2021 13:53
LEAD	ND		2	UG/L	10	12/16/2021 13:53
ANTIMONY	ND		1	UG/L	10	12/16/2021 13:53
SELENIUM	ND		10	UG/L	10	12/16/2021 13:53
THALLIUM	ND		0.15	UG/L	10	12/16/2021 13:53
URANIUM	3		0.1	UG/L	10	12/16/2021 13:53
VANADIUM	ND		5	UG/L	10	12/16/2021 13:53
ZINC	ND		100	UG/L	10	12/16/2021 13:53
Ion Chromatography		EPA300.0			Prep Date: 12/14/2021	PrepBy: AOW
CHLORIDE	6		1	MG/L	5	12/14/2021 12:39
FLUORIDE	ND		0.5	MG/L	5	12/14/2021 12:39
SULFATE	74		5	MG/L	5	12/14/2021 12:39
Dissolved Mercury		SW7470			Prep Date: 12/17/2021	PrepBy: JSD
MERCURY	ND		0.0002	MG/L	1	12/17/2021 14:32
Nitrate/Nitrite as N		EPA353.2			Prep Date: 12/17/2021	PrepBy: AOW
NITRATE/NITRITE AS N	ND		0.2	MG/L	10	12/17/2021 10:43
pH		SM4500-H			Prep Date: 12/13/2021	PrepBy: KRL
PH	7.37		0.1	pH	1	12/13/2021
Total Cyanide		SW9014			Prep Date: 12/20/2021	PrepBy: AOW
CYANIDE, TOTAL	ND		0.015	MG/L	1	12/20/2021
Total Dissolved Solids		SM2540C			Prep Date: 12/13/2021	PrepBy: BMK

Client: Telesto Solutions Inc **Date:** 20-Dec-21
Project: 360100 LRM - Knox Pit **Work Order:** 2112184
Sample ID: MW-19 **Lab ID:** 2112184-7
Legal Location: **Matrix:** WATER
Collection Date: 12/8/2021 15:31 **Percent Moisture:**

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TOTAL DISSOLVED SOLIDS	190		20	MG/L	1	12/15/2021

Explanation of Qualifiers

Radiochemistry:

- "Report Limit" is the MDC
 U or ND - Result is less than the sample specific MDC.
 Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.
 Y2 - Chemical Yield outside default limits.
 W - DER is greater than Warning Limit of 1.42
 * - Aliquot Basis is 'As Received' while the Report Basis is 'Dry Weight'.
 # - Aliquot Basis is 'Dry Weight' while the Report Basis is 'As Received'.
 G - Sample density differs by more than 15% of LCS density.
 D - DER is greater than Control Limit
 M - Requested MDC not met.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
 L - LCS Recovery below lower control limit.
 H - LCS Recovery above upper control limit.
 P - LCS, Matrix Spike Recovery within control limits.
 N - Matrix Spike Recovery outside control limits
 NC - Not Calculated for duplicate results less than 5 times MDC
 B - Analyte concentration greater than MDC.
 B3 - Analyte concentration greater than MDC but less than Requested MDC.

Inorganics:

B - Result is less than the requested reporting limit but greater than the instrument method detection limit (MDL).
 U or ND - Indicates that the compound was analyzed for but not detected.
 E - The reported value is estimated because of the presence of interference. An explanatory note may be included in the narrative.
 M - Duplicate injection precision was not met.
 N - Spiked sample recovery not within control limits. A post spike is analyzed for all ICP analyses when the matrix spike and or spike duplicate fail and the native sample concentration is less than four times the spike added concentration.
 Z - Spiked recovery not within control limits. An explanatory note may be included in the narrative.
 * - Duplicate analysis (relative percent difference) not within control limits.
 S - SAR value is estimated as one or more analytes used in the calculation were not detected above the detection limit.

Organics:

U or ND - Indicates that the compound was analyzed for but not detected.
 B - Analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user.
 E - Analyte concentration exceeds the upper level of the calibration range.
 J - Estimated value. The result is less than the reporting limit but greater than the instrument method detection limit (MDL).
 A - A tentatively identified compound is a suspected aldol-condensation product.
 X - The analyte was diluted below an accurate quantitation level.
 * - The spike recovery is equal to or outside the control criteria used.
 + - The relative percent difference (RPD) equals or exceeds the control criteria.
 G - A pattern resembling gasoline was detected in this sample.
 D - A pattern resembling diesel was detected in this sample.
 M - A pattern resembling motor oil was detected in this sample.
 C - A pattern resembling crude oil was detected in this sample.
 4 - A pattern resembling JP-4 was detected in this sample.
 5 - A pattern resembling JP-5 was detected in this sample.
 H - Indicates that the fuel pattern was in the heavier end of the retention time window for the analyte of interest.
 L - Indicates that the fuel pattern was in the lighter end of the retention time window for the analyte of interest.
 Z - This flag indicates that a significant fraction of the reported result did not resemble the patterns of any of the following petroleum hydrocarbon products:
 - gasoline
 - JP-8
 - diesel
 - mineral spirits
 - motor oil
 - Stoddard solvent
 - bunker C

ALS -- Fort Collins

Date: 12/20/2021 2:52

Client: Telesto Solutions Inc

Work Order: 2112184

Project: 360100 LRM - Knox Pit

QC BATCH REPORT

Batch ID: HG211217-1-1

Instrument ID CETAC7600

Method: SW7470

LCS	Sample ID: HG211217-1				Units: MG/L		Analysis Date: 12/17/2021 14:11				
Client ID:	Run ID: HG211217-1A1				Prep Date: 12/17/2021			DF: 1			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
MERCURY	0.00101	0.0002	0.001		101	80-120				20	

LCSD	Sample ID: HG211217-1				Units: MG/L		Analysis Date: 12/17/2021 14:13				
Client ID:	Run ID: HG211217-1A1				Prep Date: 12/17/2021			DF: 1			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
MERCURY	0.00099	0.0002	0.001		99	80-120		0.00101	2	20	

MB	Sample ID: HG211217-1				Units: MG/L	Analysis Date: 12/17/2021 14:09	
Client ID:	Run ID: HG211217-1A1				Prep Date: 12/17/2021	DF: 1	
Analyte		Result	ReportLimit		Qual		
MERCURY		ND	0.0002				

The following samples were analyzed in this batch:

2112184-1	2112184-2	2112184-3
2112184-4	2112184-5	2112184-6
2112184-7		

Client: Telesto Solutions Inc
 Work Order: 2112184
 Project: 360100 LRM - Knox Pit

QC BATCH REPORT

Batch ID: **IP211214-2-1** Instrument ID **ICPMS2** Method: **SW6020**

LCS Sample ID: **IM211214-2** Units: **UG/L** Analysis Date: **12/16/2021 12:50**

Client ID: Run ID: **IM211216-11A10** Prep Date: **12/14/2021** DF: **10**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
ALUMINUM	4920	100	5000		98	80-120				20	
ANTIMONY	30.9	1	30		103	80-120				20	
ARSENIC	108	2	100		108	80-120				20	
BARIUM	95.4	5	100		95	80-120				20	
BERYLLIUM	52.2	0.5	50		104	80-120				20	
BORON	2200	150	2000		110	80-120				20	
CADMIUM	30.4	2	30		101	80-120				20	
CALCIUM	10100	1000	10000		101	80-120				20	
CHROMIUM	496	10	500		99	80-120				20	
COBALT	103	5	100		103	80-120				20	
COPPER	994	20	1000		99	80-120				20	
IRON	4830	100	5000		97	80-120				20	
LEAD	50.3	2	50		101	80-120				20	
LITHIUM	1000	20	1000		100	80-120				20	
MAGNESIUM	10300	100	10000		103	80-120				20	
MANGANESE	97.5	10	100		98	80-120				20	
MOLYBDENUM	98.6	2	100		99	80-120				20	
NICKEL	510	20	500		102	80-120				20	
POTASSIUM	4860	1000	5000		97	80-120				20	
SELENIUM	97.5	10	100		98	80-120				20	
SILVER	9.91	0.5	10		99	80-120				20	
SODIUM	9590	1000	10000		96	80-120				20	
THALLIUM	1.99	0.15	2		100	80-120				20	
URANIUM	9.92	0.1	10		99	80-120				20	
VANADIUM	96.1	5	100		96	80-120				20	
ZINC	2050	100	2000		103	80-120				20	

Client: Telesto Solutions Inc
 Work Order: 2112184
 Project: 360100 LRM - Knox Pit

QC BATCH REPORT

Batch ID: **IP211214-2-1** Instrument ID **ICPMS2** Method: **SW6020**

LCSD Sample ID: **IM211214-2** Units: **UG/L** Analysis Date: **12/16/2021 12:56**

Client ID: Run ID: **IM211216-11A10** Prep Date: **12/14/2021** DF: **10**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
ALUMINUM	4780	100	5000		96	80-120		4920	3	20	
ANTIMONY	30.8	1	30		103	80-120		30.9	0	20	
ARSENIC	102	2	100		102	80-120		108	5	20	
BARIUM	97.8	5	100		98	80-120		95.4	2	20	
BERYLLIUM	51.6	0.5	50		103	80-120		52.2	1	20	
BORON	2240	150	2000		112	80-120		2200	2	20	
CADMIUM	29.9	2	30		100	80-120		30.4	2	20	
CALCIUM	10000	1000	10000		100	80-120		10100	1	20	
CHROMIUM	497	10	500		99	80-120		496	0	20	
COBALT	102	5	100		102	80-120		103	1	20	
COPPER	1020	20	1000		102	80-120		994	2	20	
IRON	4920	100	5000		98	80-120		4830	2	20	
LEAD	50	2	50		100	80-120		50.3	1	20	
LITHIUM	995	20	1000		99	80-120		1000	1	20	
MAGNESIUM	10100	100	10000		101	80-120		10300	2	20	
MANGANESE	94.7	10	100		95	80-120		97.5	3	20	
MOLYBDENUM	98	2	100		98	80-120		98.6	1	20	
NICKEL	512	20	500		102	80-120		510	0	20	
POTASSIUM	4770	1000	5000		95	80-120		4860	2	20	
SELENIUM	106	10	100		106	80-120		97.5	8	20	
SILVER	10.2	0.5	10		102	80-120		9.91	3	20	
SODIUM	9760	1000	10000		98	80-120		9590	2	20	
THALLIUM	1.96	0.15	2		98	80-120		1.99	2	20	
URANIUM	10	0.1	10		101	80-120		9.92	1	20	
VANADIUM	94.4	5	100		94	80-120		96.1	2	20	
ZINC	2110	100	2000		105	80-120		2050	3	20	

Client: Telesto Solutions Inc
Work Order: 2112184
Project: 360100 LRM - Knox Pit

QC BATCH REPORT

Batch ID: **IP211214-2-1** Instrument ID **ICPMS2** Method: **SW6020**

MB Sample ID: **IP211214-2** Units: **UG/L** Analysis Date: **12/16/2021 12:47**
Client ID: Run ID: **IM211216-11A10** Prep Date: **12/14/2021** DF: **10**

Analyte	Result	ReportLimit	Qual
ALUMINUM	ND	100	
ANTIMONY	ND	1	
ARSENIC	ND	2	
BARIUM	ND	5	
BERYLLIUM	ND	0.5	
BORON	ND	150	
CADMIUM	ND	2	
CALCIUM	ND	1000	
CHROMIUM	ND	10	
COBALT	ND	5	
COPPER	ND	20	
IRON	ND	100	
LEAD	ND	2	
LITHIUM	ND	20	
MAGNESIUM	ND	100	
MANGANESE	ND	10	
MOLYBDENUM	ND	2	
NICKEL	ND	20	
POTASSIUM	ND	1000	
SELENIUM	ND	10	
SILVER	ND	0.5	
SODIUM	ND	1000	
THALLIUM	ND	0.15	
URANIUM	ND	0.1	
VANADIUM	ND	5	
ZINC	ND	100	

The following samples were analyzed in this batch:

2112184-1	2112184-2	2112184-3
2112184-4	2112184-5	2112184-6
2112184-7		

Client: Telesto Solutions Inc
Work Order: 2112184
Project: 360100 LRM - Knox Pit

QC BATCH REPORT

Batch ID: **AK211213-1-1** Instrument ID **NONE** Method: **SM2320B**

LCS	Sample ID: AK211213-1			Units: MG/L			Analysis Date: 12/13/2021				
Client ID:	Run ID: AK211213-1A1			Prep Date: 12/13/2021			DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
TOTAL ALKALINITY AS CaCO3	99.6	5	100		99	85-115				15	

MB	Sample ID: AK211213-1		Units: MG/L		Analysis Date: 12/13/2021	
Client ID:	Run ID: AK211213-1A1		Prep Date: 12/13/2021		DF: 1	
Analyte	Result	ReportLimit	Qual			
BICARBONATE AS CaCO3	ND	5				
CARBONATE AS CaCO3	ND	5				
TOTAL ALKALINITY AS CaCO3	ND	5				

The following samples were analyzed in this batch:

2112184-1	2112184-2	2112184-3
2112184-4	2112184-5	2112184-6
2112184-7		

Client: Telesto Solutions Inc
Work Order: 2112184
Project: 360100 LRM - Knox Pit

QC BATCH REPORT

Batch ID: **CN211220-1-1** Instrument ID **Spec** Method: **SW9014**

LCS	Sample ID: CN211220-1			Units: MG/L			Analysis Date: 12/20/2021				
Client ID:		Run ID: CN211220-1A1			Prep Date: 12/20/2021			DF: 1			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
CYANIDE, TOTAL	0.21	0.015	0.2		105	85-115				30	

LCSD	Sample ID: CN211220-1			Units: MG/L			Analysis Date: 12/20/2021				
Client ID:	Run ID: CN211220-1A1						Prep Date: 12/20/2021		DF: 1		
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
CYANIDE, TOTAL	0.212	0.015	0.2		106	85-115		0.21	1	30	

MB		Sample ID: CN211220-1			Units: MG/L		Analysis Date: 12/20/2021	
Client ID:		Run ID: CN211220-1A1			Prep Date: 12/20/2021		DF: 1	
Analyte		Result	ReportLimit		Qual			
CYANIDE, TOTAL		ND	0.015					

The following samples were analyzed in this batch:

2112184-1	2112184-2	2112184-3
2112184-4	2112184-5	2112184-6
2112184-7		

Client: Telesto Solutions Inc
 Work Order: 2112184
 Project: 360100 LRM - Knox Pit

QC BATCH REPORT

Batch ID: **IC211214-1-1** Instrument ID **IC3** Method: **EPA300.0**

LCS	Sample ID: IC211214-1				Units: MG/L		Analysis Date: 12/14/2021 11:32				
Client ID:	Run ID: IC211214-1A1				Prep Date: 12/14/2021			DF: 1			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
FLUORIDE	5.28	0.1	5		106	90-110				15	
CHLORIDE	10.6	0.2	10		106	90-110				15	
SULFATE	51.1	1	50		102	90-110				15	

LCSD	Sample ID: IC211214-1				Units: MG/L		Analysis Date: 12/14/2021 13:58				
Client ID:		Run ID: IC211214-1A1				Prep Date: 12/14/2021			DF: 1		
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
FLUORIDE	5.34	0.1	5		107	90-110		5.28	1	15	
CHLORIDE	10.8	0.2	10		108	90-110		10.6	2	15	
SULFATE	51.9	1	50		104	90-110		51.1	2	15	

MB	Sample ID: IC211214-1			Units: MG/L			Analysis Date: 12/14/2021 12:51		
Client ID:		Run ID: IC211214-1A1			Prep Date: 12/14/2021			DF: 1	
Analyte		Result	ReportLimit		Qual				
FLUORIDE		ND	0.1						
CHLORIDE		ND	0.2						
SULFATE		ND	1						

MS	Sample ID: 2112184-4				Units: MG/L		Analysis Date: 12/14/2021 12:21				
Client ID: 03-Blank			Run ID: IC211214-1A1			Prep Date: 12/14/2021			DF: 1		
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
FLUORIDE	2.04	0.1	2	0.1	102	85-115				15	
CHLORIDE	5.78	0.2	5	0.68	102	85-115				15	
SULFATE	21.2	1	20	1.5	99	85-115				15	

The following samples were analyzed in this batch:

2112184-1	2112184-2	2112184-3
2112184-4	2112184-5	2112184-6
2112184-7		

Client: Telesto Solutions Inc
Work Order: 2112184
Project: 360100 LRM - Knox Pit

QC BATCH REPORT

Batch ID: **NN211217-1-1** Instrument ID **Lachat** Method: **EPA353.2**

LCS	Sample ID: NN211217-1			Units: MG/L			Analysis Date: 12/17/2021 10:34				
Client ID:	Run ID: NN211217-1A1			Prep Date: 12/17/2021			DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
NITRATE/NITRITE AS N	0.499	0.02	0.5		100	90-110				20	

LCSD	Sample ID: NN211217-1			Units: MG/L			Analysis Date: 12/17/2021 10:35				
Client ID:	Run ID: NN211217-1A1			Prep Date: 12/17/2021			DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
NITRATE/NITRITE AS N	0.495	0.02	0.5		99	90-110		0.499	1	20	

MB		Sample ID: NN211217-1		Units: MG/L		Analysis Date: 12/17/2021 10:33	
Client ID:		Run ID: NN211217-1A1		Prep Date: 12/17/2021		DF: 1	
Analyte		Result	ReportLimit	Qual			
NITRATE/NITRITE AS N		ND	0.02				

The following samples were analyzed in this batch:

2112184-1	2112184-2	2112184-3
2112184-4	2112184-5	2112184-6
2112184-7		

Client: Telesto Solutions Inc
Work Order: 2112184
Project: 360100 LRM - Knox Pit

QC BATCH REPORT

Batch ID: **TD211213-1-1** Instrument ID **Balance** Method: **SM2540C**

DUP	Sample ID: 2112184-1		Units: MG/L			Analysis Date: 12/15/2021					
Client ID: MW-06	Run ID: TD211215-1A1		Prep Date: 12/13/2021			DF: 1					
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
TOTAL DISSOLVED SOLIDS	1970	20						2000	2	14	

LCS	Sample ID: TD211213-1		Units: MG/L			Analysis Date: 12/15/2021					
Client ID:	Run ID: TD211215-1A1		Prep Date: 12/13/2021			DF: 1					
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
TOTAL DISSOLVED SOLIDS	450	20	400		112	85-115				14	

LCSD	Sample ID: TD211213-1		Units: MG/L			Analysis Date: 12/15/2021					
Client ID:	Run ID: TD211215-1A1		Prep Date: 12/13/2021			DF: 1					
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
TOTAL DISSOLVED SOLIDS	363	20	400		91	85-115		450	21	14	*

MB	Sample ID: TD211213-1		Units: MG/L			Analysis Date: 12/15/2021					
Client ID:	Run ID: TD211215-1A1		Prep Date: 12/13/2021			DF: 1					
Analyte	Result	ReportLimit									Qual
TOTAL DISSOLVED SOLIDS	ND	20									

The following samples were analyzed in this batch:

2112184-1	2112184-2	2112184-3
2112184-4	2112184-5	2112184-6
2112184-7		



Thursday, April 14, 2022

Tim Gerken
Telesto Solutions Inc
750 14th Street, SW
Loveland, CO 80537

Re: ALS Workorder: 2203390
Project Name: LRM - Knox Pit
Project Number: 360100

Dear Mr. Gerken:

Seven water samples were received from Telesto Solutions Inc, on 3/23/2022. The samples were scheduled for the following analyses:

Inorganics

Metals

The results for these analyses are contained in the enclosed reports.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental.

Thank you for your confidence in ALS Environmental. Should you have any questions, please call.

Sincerely,

ALS Environmental
Katie M. O'Brien
Project Manager

Accreditations: ALS Environmental – Fort Collins is accredited by the following accreditation bodies for various testing scopes in accordance with requirements of each accreditation body. All testing is performed under the laboratory management system, which is maintained to meet these requirement and regulations. Please contact the laboratory or accreditation body for the current scope testing parameters.

ALS Environmental – Fort Collins	
Accreditation Body	License or Certification Number
Arizona	AZ0828
California (CA)	2926
Colorado (CO)	CO01099
Florida (FL)	E87914
Idaho (ID)	CO01099
Kansas (KS)	E-10381
Kentucky (KY)	90137
Oklahoma	1301
PJLA (DoD ELAP/ISO 170250)	95377
PJLA (DOE-AP/ISO 17025)	95377
Maryland (MD)	285
Missouri (MO)	175
Nebraska(NE)	NE-OS-24-13
Nevada (NV)	CO010992018-1
New York (NY)	12036
North Dakota (ND)	R-057
Oklahoma (OK)	1301
Pennsylvania (PA)	68-03116
Tennessee (TN)	TN02976
Texas (TX)	T104704241
Utah (UT)	CO01099
Washington (WA)	C1280
Virginia	460305

40 CFR Part 136: All analyses for Clean Water Act samples are analyzed using the 40 CFR Part 136 specified method and include all the QC requirements.



2203390

Metals:

The samples were analyzed following SW-846, 3rd Edition procedures. Analysis by ICPMS followed method 6020B and the current revision of SOP 827. Mercury analysis by CVAA followed method 7470A and the current revision of SOP 812.

The samples for dissolved metals had been filtered prior to receipt, and had a pH less than 2 upon receipt.

All acceptance criteria were met.

Inorganics:

The samples were analyzed following SW-846, EMSL and Standard Method procedures for the current revisions of the following SOPs and methods:

<u>Analyte</u>	<u>Method</u>	<u>SOP #</u>
Alkalinity	SM2320B	1106
Bicarbonate	SM2320B	1106
Carbonate	SM2320B	1106
Total cyanide	9014	1110
Nitrate/nitrite as N	353.2 Revision 2.0	1127
pH	SM4500-H ⁺ B	1126
TDS	SM2540C	1101
Chloride	300.0 Revision 2.1	1113
Fluoride	300.0 Revision 2.1	1113
Nitrate as N	300.0 Revision 2.1	1113
Nitrite as N	300.0 Revision 2.1	1113
Sulfate	300.0 Revision 2.1	1113

The samples were prepared and analyzed within the established hold time for each analysis with the exception of samples 2203390-1, -2, -3 and -4 for nitrate as N and nitrite as N.

A matrix spike (MS) was prepared and analyzed with the anion batch. All guidance criteria for precision and accuracy were met with the following exception:

<u>Analyte</u>	<u>Sample ID</u>
Nitrite as N	2203390-3MS

The native sample result is flagged for nitrite as N. The laboratory control samples indicate that the procedure was in control.

All other acceptance criteria were met.

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Sample Number(s) Cross-Reference Table

OrderNum: 2203390

Client Name: Telesto Solutions Inc

Client Project Name: LRM - Knox Pit

Client Project Number: 360100

Client PO Number:

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
MW-06	2203390-1		WATER	22-Mar-22	12:47
MW-10	2203390-2		WATER	22-Mar-22	13:42
02-MW-10	2203390-3		WATER	22-Mar-22	13:48
03-Blank	2203390-4		WATER	22-Mar-22	14:02
MW-13	2203390-5		WATER	22-Mar-22	15:05
MW-12	2203390-6		WATER	22-Mar-22	15:40
MW-19	2203390-7		WATER	22-Mar-22	16:20



ALS Environmental

225 Commerce Drive, Fort Collins, Colorado 80524
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Chain-of-Custody

Form 202a

Knox

Tim Gerken

3/22/22

1 of 3

WET-KORDER # 2203390

PROJECT NAME	LRN - Pit	SAMPLER	DATE		TURNAROUND		DISPOSAL		PAGE		Return to Client	
PROJECT NO.	360100	SITE ID										
COMPANY NAME	Teleso Solutions Inc.	EDD FORMAT										
SEND REPORT TO	Tim Gerken	PURCHASE ORDER										
ADDRESS		BILL TO COMPANY										
CITY / STATE / ZIP		INVOICE ATTN TO										
PHONE	(780) 438-5513	ADDRESS										
FAX		CITY / STATE / ZIP										
E-MAIL	Tgerken@teleso-inc.com	PHONE										
		FAX										
		E-MAIL										
Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC					
1 -	MW-06 - RAW	W	12:47	3/22/22	1	-		X				
	MW-06 - Filtered		12:47	3/22/22	1	2		X				
	MW-06		3/22/22	12:47	1	3		X				
	MW-06			12:47	1	4		X				
	MW-10 - RAW			13:47	1	-		X				
2 -	MW-10 - Filtered			13:47	1	2		X				
	MW-10			13:47	1	3		X				
	MW-10			13:47	1	4		X				
	02-MW-10-RAW			13:48	1	-		X				
3 -	02-MW-10-Filtered			13:48	1	2		X				

*Time Zone (Circle): EST CST MST PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

For metals or anions, please detail analytes below.

Comments:	QC PACKAGE (check below)
- Dissolved Metals Field Filtered	LEVEL II (Standard QC)
	LEVEL III (Std QC + forms)
	LEVEL IV (Std QC + forms + raw data)
Preservative Key:	1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035

RELINQUISHED BY	SIGNATURE	PRINTED NAME	DATE	TIME
RECEIVED BY	Tim Gerken	Tim Gerken	3/22/22	16:25
RELINQUISHED BY	Chaitanya Chaitanya	Chaitanya	3/23/22	08:00
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				



ALS Environmental

225 Commerce Drive, Fort Collins, Colorado 80524
TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522

Chain-of-Custody

Form 202f8

WORKORDER # **2203390**

PROJECT NAME	LRM-Knox Pit	SAMPLER			DATE	3/22/22	PAGE	2	of	3
PROJECT No.	360100	SITE ID			TURNAROUND		DISPOSAL	By Lab	or	Return to Client
COMPANY NAME	Telesto	EDD FORMAT								
SEND REPORT TO		PURCHASE ORDER								
ADDRESS		BILL TO COMPANY								
CITY / STATE / ZIP		INVOICE ATTN TO								
PHONE		ADDRESS								
FAX		CITY / STATE / ZIP								
E-MAIL		PHONE								
		FAX								
		E-MAIL								
Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC			
3-L	02-MW-10	W	3/22/22	13:48	1	3				
	02-MW-10			13:48	1	4				
4-L	03-Blank			14:02	1	1				
	03-Blank			14:02	1	2				
	03-Blank			14:02	1	3				
	03-Blank			14:02	1	4				
	MW-13 - Raw			15:05	1	1				
5-L	MW-13 - Filtered			15:05	1	2				
	MW-13			15:05	1	3				
	MW-13			15:05	1	4				

*Time Zone (Grde): EST CST MST PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

For metals or anions, please detail analytes below.

Comments:	QC PACKAGE (check below)			
	LEVEL II (Standard OC)			
	LEVEL III (Std OC + forms)			
	LEVEL IV (Std OC + forms + raw data)			
Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035				

RELINQUISHED BY	SIGNATURE	PRINTED NAME	DATE	TIME
RECEIVED BY	Tim Gorken	Tim Gorken	3/22/22	16:25
RELINQUISHED BY	Cherie Kanner	Cherie Kanner	3/23/22	08:00
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				



ALS Environmental

225 Commerce Drive, Fort Collins, Colorado 80524
TF: (800) 443-1511 PH: (970) 480-1511 FX: (970) 480-1522

Chain-of-Custody

Form 202r8

PROJECT NAME LRA-Knox Pit		SAMPLER Tim Gerken		DATE 3/22/22		WORKORDER # 2203390	
PROJECT NO. 36060		SITE ID		TURNAROUND		PAGE 3 of 3	
COMPANY NAME Telesis		EDD FORMAT		By Lab or Return to Client		DISPOSAL	
SEND REPORT TO SAME		PURCHASE ORDER					
ADDRESS AS PAGE		BILL TO COMPANY					
CITY / STATE / ZIP		INVOICE ATTN TO					
PHONE		ADDRESS					
FAX		CITY / STATE / ZIP					
E-MAIL		PHONE					
		FAX					
		E-MAIL					
Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC
6	MW-12-RAW	W	3/22/22	15:40	1	-	X
	MW-12-Filtered			15:40	2	2	X
	MW-12			15:40	3	3	X
	MW-12			15:40	4	4	X
7	MW-19-RAW			16:20	1	-	X
	MW-19-Filtered			16:20	2	2	X
	MW-19			16:20	3	3	X
	MW-19			16:20	4	4	X

*Time Zone (Crole): EST CST MST PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

For metals or anions, please detail analytes below.

Comments: " "	QC PACKAGE (check below)			
	LEVEL II (Standard QC)			
	LEVEL III (Std QC + forms)			
	LEVEL IV (Std QC + forms + raw data)			
Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035				

RELINQUISHED BY	SIGNATURE	PRINTED NAME	DATE	TIME
RECEIVED BY	<i>Tim Gerken</i>	Tim Gerken	3/22/22	4:25
RELINQUISHED BY	<i>Chloe Jenner</i>	Chloe Jenner	3/23/22	0800
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				



ALS Environmental - Fort Collins
CONDITION OF SAMPLE UPON RECEIPT FORM

Client: TELESTO Workorder No: 2203390
 Project Manager: KMO Initials: CXT Date: 03/23/2022

				N/A	YES	NO
1. Are airbills / shipping documents present and/or removable?				X		
Tracking number:						
2. Are custody seals on shipping containers intact?				X		
3. Are custody seals on sample containers intact?				X		
4. Is there a COC (chain-of-custody) present?					X	
5. Is the COC in agreement with samples received? (IDs, dates, times, # of samples, # of containers, matrix, requested analyses, etc.)					X	
6. Are short-hold samples present?					X	
7. Are all samples within holding times for the requested analyses?						X
8. Were all sample containers received intact? (not broken or leaking)					X	
9. Is there sufficient sample for the requested analyses?					X	
10. Are samples in proper containers for requested analyses? (form 250, <i>Sample Handling Guidelines</i>)					X	
11. Are all aqueous samples preserved correctly, if required? (excluding volatiles)					X	
12. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, radon) free of bubbles > 6 mm (1/4 inch) diameter? (i.e. size of green pea)				X		
13. Were the samples shipped on ice?					X	
14. Were cooler temperatures measured at 0.1-6.0°C?				IR gun used*: #5	RAD ONLY	X
Cooler #: <u>1</u> Temperature (°C): <u>0.0</u> # of custody seals on cooler: <u>0</u> External µR/hr reading: <u>NA</u> Background µR/hr reading: <u>10</u> Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? <u>NA</u>						

* Please provide details here for NO responses to boxes above - for 2 thru 5 & 7 thru 12, notify PM & continue w/ login.

Bottles not frozen

Were unpreserved bottles pH checked? NA All client bottle ID's vs ALS lab ID's double-checked by CT
 If applicable, was the client contacted? YES / NO / NA Contact: [Signature] Date/Time: 3/24/22
 Project Manager Signature / Date: [Signature]

ALS -- Fort Collins

SAMPLE SUMMARY REPORT

Client: Telesto Solutions Inc
 Project: 360100 LRM - Knox Pit
 Sample ID: MW-06
 Legal Location:
 Collection Date: 3/22/2022 12:47

Date: 11-Apr-22
 Work Order: 2203390
 Lab ID: 2203390-1
 Matrix: WATER
 Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Alkalinity as Calcium Carbonate		SM2320B			Prep Date: 4/4/2022	PrepBy:KRL
BICARBONATE AS CaCO3	220		20	MG/L	1	4/4/2022
CARBONATE AS CaCO3	ND		20	MG/L	1	4/4/2022
TOTAL ALKALINITY AS CaCO3	220		20	MG/L	1	4/4/2022
Dissolved ICPMS Metals		SW6020			Prep Date: 3/31/2022	PrepBy:ETC
SILVER	ND		0.5	UG/L	10	4/4/2022 13:02
ALUMINUM	ND		100	UG/L	10	4/4/2022 13:02
ARSENIC	ND		2	UG/L	10	4/4/2022 13:02
BORON	ND		150	UG/L	10	4/4/2022 13:02
BARIUM	33		5	UG/L	10	4/4/2022 13:02
BERYLLIUM	ND		0.5	UG/L	10	4/4/2022 13:02
CALCIUM	550000		1000	UG/L	10	4/4/2022 13:02
CADMIUM	ND		2	UG/L	10	4/4/2022 13:02
COBALT	ND		5	UG/L	10	4/4/2022 13:02
CHROMIUM	ND		10	UG/L	10	4/4/2022 13:02
COPPER	ND		20	UG/L	10	4/4/2022 13:02
IRON	ND		100	UG/L	10	4/4/2022 13:02
POTASSIUM	5400		1000	UG/L	10	4/4/2022 13:02
LITHIUM	21		20	UG/L	10	4/4/2022 13:02
MAGNESIUM	30000		100	UG/L	10	4/4/2022 13:02
MANGANESE	ND		10	UG/L	10	4/4/2022 13:02
MOLYBDENUM	5.5		2	UG/L	10	4/4/2022 13:02
SODIUM	19000		1000	UG/L	10	4/4/2022 13:02
NICKEL	ND		20	UG/L	10	4/4/2022 13:02
LEAD	ND		2	UG/L	10	4/4/2022 13:02
ANTIMONY	ND		1	UG/L	10	4/4/2022 13:02
SELENIUM	13		10	UG/L	10	4/4/2022 13:02
THALLIUM	ND		0.15	UG/L	10	4/4/2022 13:02
URANIUM	36		0.1	UG/L	10	4/4/2022 13:02
VANADIUM	ND		5	UG/L	10	4/4/2022 13:02
ZINC	ND		100	UG/L	10	4/4/2022 13:02
Ion Chromatography		EPA300.0			Prep Date: 3/24/2022	PrepBy:AOW
CHLORIDE	21		1	MG/L	5	3/24/2022 14:38
FLUORIDE	ND		0.5	MG/L	5	3/24/2022 14:38
NITRATE AS N	1.6		1	MG/L	5	3/24/2022 14:38
NITRITE AS N	ND		0.75	MG/L	5	3/24/2022 14:38
SULFATE	1700		50	MG/L	50	3/28/2022 13:56
Dissolved Mercury		SW7470			Prep Date: 3/30/2022	PrepBy:JSD
MERCURY	ND		0.0002	MG/L	1	3/30/2022 14:00
Nitrate/Nitrite as N		EPA353.2			Prep Date: 4/7/2022	PrepBy:AOW
NITRATE/NITRITE AS N	0.36		0.2	MG/L	10	4/7/2022 10:41
pH		SM4500-H			Prep Date: 4/1/2022	PrepBy:KRL
PH	7.12		0.1	pH	1	4/1/2022
Total Cyanide		SW9014			Prep Date: 3/28/2022	PrepBy:KRL

Client: Telesto Solutions Inc

Date: 11-Apr-22

Project: 360100 LRM - Knox Pit

Work Order: 2203390

Sample ID: MW-06

Lab ID: 2203390-1

Legal Location:

Matrix: WATER

Collection Date: 3/22/2022 12:47

Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
CYANIDE, TOTAL	ND		0.015	MG/L	1	3/30/2022
Total Dissolved Solids		SM2540C				
TOTAL DISSOLVED SOLIDS	2100		40	MG/L	1	3/29/2022

Prep Date: 3/28/2022

PrepBy:KRL

ALS -- Fort Collins

SAMPLE SUMMARY REPORT

Client: Telesto Solutions Inc
 Project: 360100 LRM - Knox Pit
 Sample ID: MW-10
 Legal Location:
 Collection Date: 3/22/2022 13:42

Date: 11-Apr-22
 Work Order: 2203390
 Lab ID: 2203390-2
 Matrix: WATER
 Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Alkalinity as Calcium Carbonate		SM2320B			Prep Date: 4/4/2022	PrepBy:KRL
BICARBONATE AS CaCO3	260		20	MG/L	1	4/4/2022
CARBONATE AS CaCO3	ND		20	MG/L	1	4/4/2022
TOTAL ALKALINITY AS CaCO3	260		20	MG/L	1	4/4/2022
Dissolved ICPMS Metals		SW6020			Prep Date: 3/31/2022	PrepBy:ETC
SILVER	ND		0.5	UG/L	10	4/4/2022 13:05
ALUMINUM	ND		100	UG/L	10	4/4/2022 13:05
ARSENIC	ND		2	UG/L	10	4/4/2022 13:05
BORON	ND		150	UG/L	10	4/4/2022 13:05
BARIUM	21		5	UG/L	10	4/4/2022 13:05
BERYLLIUM	ND		0.5	UG/L	10	4/4/2022 13:05
CALCIUM	430000		1000	UG/L	10	4/4/2022 13:05
CADMIUM	ND		2	UG/L	10	4/4/2022 13:05
COBALT	ND		5	UG/L	10	4/4/2022 13:05
CHROMIUM	ND		10	UG/L	10	4/4/2022 13:05
COPPER	ND		20	UG/L	10	4/4/2022 13:05
IRON	ND		100	UG/L	10	4/4/2022 13:05
POTASSIUM	3100		1000	UG/L	10	4/4/2022 13:05
LITHIUM	25		20	UG/L	10	4/4/2022 13:05
MAGNESIUM	26000		100	UG/L	10	4/4/2022 13:05
MANGANESE	ND		10	UG/L	10	4/4/2022 13:05
MOLYBDENUM	2.7		2	UG/L	10	4/4/2022 13:05
SODIUM	24000		1000	UG/L	10	4/4/2022 13:05
NICKEL	ND		20	UG/L	10	4/4/2022 13:05
LEAD	ND		2	UG/L	10	4/4/2022 13:05
ANTIMONY	ND		1	UG/L	10	4/4/2022 13:05
SELENIUM	32		10	UG/L	10	4/4/2022 13:05
THALLIUM	ND		0.15	UG/L	10	4/4/2022 13:05
URANIUM	34		0.1	UG/L	10	4/4/2022 13:05
VANADIUM	ND		5	UG/L	10	4/4/2022 13:05
ZINC	ND		100	UG/L	10	4/4/2022 13:05
Ion Chromatography		EPA300.0			Prep Date: 3/24/2022	PrepBy:AOW
CHLORIDE	25		1	MG/L	5	3/24/2022 14:14
FLUORIDE	ND		0.5	MG/L	5	3/24/2022 14:14
NITRATE AS N	3		1	MG/L	5	3/24/2022 14:14
NITRITE AS N	1		0.75	MG/L	5	3/24/2022 14:14
SULFATE	1100		20	MG/L	20	3/28/2022 14:02
Dissolved Mercury		SW7470			Prep Date: 3/30/2022	PrepBy:JSD
MERCURY	ND		0.0002	MG/L	1	3/30/2022 14:03
Nitrate/Nitrite as N		EPA353.2			Prep Date: 4/7/2022	PrepBy:AOW
NITRATE/NITRITE AS N	1.6		0.2	MG/L	10	4/7/2022 10:41
pH		SM4500-H			Prep Date: 4/1/2022	PrepBy:KRL
PH	7.23		0.1	pH	1	4/1/2022
Total Cyanide		SW9014			Prep Date: 3/28/2022	PrepBy:KRL

Client:Telesto Solutions Inc

Project:360100 LRM - Knox Pit

Sample ID:MW-10

Legal Location:

Collection Date:3/22/2022 13:42

Date:11-Apr-22

Work Order:2203390

Lab ID:2203390-2

Matrix:WATER

Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
CYANIDE, TOTAL	ND		0.015	MG/L	1	3/30/2022
Total Dissolved Solids		SM2540C			Prep Date: 3/28/2022	PrepBy:KRL
TOTAL DISSOLVED SOLIDS	1600		40	MG/L	1	3/29/2022

ALS -- Fort Collins

SAMPLE SUMMARY REPORT

Client: Telesto Solutions Inc
Project: 360100 LRM - Knox Pit
Sample ID: 02-MW-10
Legal Location:
Collection Date: 3/22/2022 13:48

Date: 11-Apr-22
Work Order: 2203390
Lab ID: 2203390-3
Matrix: WATER
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Alkalinity as Calcium Carbonate						
		SM2320B			Prep Date: 4/4/2022	PrepBy:KRL
BICARBONATE AS CaCO3	260		20	MG/L	1	4/4/2022
CARBONATE AS CaCO3	ND		20	MG/L	1	4/4/2022
TOTAL ALKALINITY AS CaCO3	260		20	MG/L	1	4/4/2022
Dissolved ICPMS Metals						
		SW6020			Prep Date: 3/31/2022	PrepBy:ETC
SILVER	ND		0.5	UG/L	10	4/4/2022 13:08
ALUMINUM	ND		100	UG/L	10	4/4/2022 13:08
ARSENIC	ND		2	UG/L	10	4/4/2022 13:08
BORON	ND		150	UG/L	10	4/4/2022 13:08
BARIUM	20		5	UG/L	10	4/4/2022 13:08
BERYLLIUM	ND		0.5	UG/L	10	4/4/2022 13:08
CALCIUM	420000		1000	UG/L	10	4/4/2022 13:08
CADMIUM	ND		2	UG/L	10	4/4/2022 13:08
COBALT	ND		5	UG/L	10	4/4/2022 13:08
CHROMIUM	ND		10	UG/L	10	4/4/2022 13:08
COPPER	ND		20	UG/L	10	4/4/2022 13:08
IRON	ND		100	UG/L	10	4/4/2022 13:08
POTASSIUM	3100		1000	UG/L	10	4/4/2022 13:08
LITHIUM	24		20	UG/L	10	4/4/2022 13:08
MAGNESIUM	26000		100	UG/L	10	4/4/2022 13:08
MANGANESE	ND		10	UG/L	10	4/4/2022 13:08
MOLYBDENUM	2.8		2	UG/L	10	4/4/2022 13:08
SODIUM	23000		1000	UG/L	10	4/4/2022 13:08
NICKEL	ND		20	UG/L	10	4/4/2022 13:08
LEAD	ND		2	UG/L	10	4/4/2022 13:08
ANTIMONY	ND		1	UG/L	10	4/4/2022 13:08
SELENIUM	32		10	UG/L	10	4/4/2022 13:08
THALLIUM	ND		0.15	UG/L	10	4/4/2022 13:08
URANIUM	33		0.1	UG/L	10	4/4/2022 13:08
VANADIUM	ND		5	UG/L	10	4/4/2022 13:08
ZINC	ND		100	UG/L	10	4/4/2022 13:08
Ion Chromatography						
		EPA300.0			Prep Date: 3/24/2022	PrepBy:AOW
FLUORIDE	ND		0.5	MG/L	5	3/24/2022 13:55
NITRATE AS N	3.1		1	MG/L	5	3/24/2022 13:55
NITRITE AS N	1	N	0.75	MG/L	5	3/24/2022 13:55
SULFATE	1300		25	MG/L	25	4/1/2022 10:03
Dissolved Mercury						
		SW7470			Prep Date: 3/30/2022	PrepBy:JSD
MERCURY	ND		0.0002	MG/L	1	3/30/2022 14:05
Nitrate/Nitrite as N						
		EPA353.2			Prep Date: 4/7/2022	PrepBy:AOW
NITRATE/NITRITE AS N	1.9		0.2	MG/L	10	4/7/2022 10:44
pH						
		SM4500-H			Prep Date: 4/1/2022	PrepBy:KRL
PH	7.14		0.1	pH	1	4/1/2022
Total Cyanide						
		SW9014			Prep Date: 3/28/2022	PrepBy:KRL
CYANIDE, TOTAL	ND		0.015	MG/L	1	3/30/2022

Client:Telesto Solutions Inc

Project:360100 LRM - Knox Pit

Sample ID:02-MW-10

Legal Location:

Collection Date: 3/22/2022 13:48

Date: 11-Apr-22

Work Order: 2203390

Lab ID: 2203390-3

Matrix: WATER

Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Total Dissolved Solids			SM2540C		Prep Date: 3/28/2022	PrepBy:KRL
TOTAL DISSOLVED SOLIDS	1700			40 MG/L	1	3/29/2022

ALS -- Fort Collins

SAMPLE SUMMARY REPORT

Client: Telesto Solutions Inc
 Project: 360100 LRM - Knox Pit
 Sample ID: 03-Blank
 Legal Location:
 Collection Date: 3/22/2022 14:02

Date: 11-Apr-22
 Work Order: 2203390
 Lab ID: 2203390-4
 Matrix: WATER
 Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Alkalinity as Calcium Carbonate		SM2320B			Prep Date: 4/4/2022	PrepBy:KRL
BICARBONATE AS CaCO3	ND		5	MG/L	1	4/4/2022
CARBONATE AS CaCO3	ND		5	MG/L	1	4/4/2022
TOTAL ALKALINITY AS CaCO3	ND		5	MG/L	1	4/4/2022
Dissolved ICPMS Metals		SW6020			Prep Date: 3/31/2022	PrepBy:ETC
SILVER	ND		0.5	UG/L	10	4/4/2022 13:23
ALUMINUM	ND		100	UG/L	10	4/4/2022 13:23
ARSENIC	ND		2	UG/L	10	4/4/2022 13:23
BORON	ND		150	UG/L	10	4/4/2022 13:23
BARIUM	ND		5	UG/L	10	4/4/2022 13:23
BERYLLIUM	ND		0.5	UG/L	10	4/4/2022 13:23
CALCIUM	ND		1000	UG/L	10	4/4/2022 13:23
CADMIUM	ND		2	UG/L	10	4/4/2022 13:23
COBALT	ND		5	UG/L	10	4/4/2022 13:23
CHROMIUM	ND		10	UG/L	10	4/4/2022 13:23
COPPER	ND		20	UG/L	10	4/4/2022 13:23
IRON	ND		100	UG/L	10	4/4/2022 13:23
POTASSIUM	ND		1000	UG/L	10	4/4/2022 13:23
LITHIUM	ND		20	UG/L	10	4/4/2022 13:23
MAGNESIUM	ND		100	UG/L	10	4/4/2022 13:23
MANGANESE	ND		10	UG/L	10	4/4/2022 13:23
MOLYBDENUM	ND		2	UG/L	10	4/4/2022 13:23
SODIUM	ND		1000	UG/L	10	4/4/2022 13:23
NICKEL	ND		20	UG/L	10	4/4/2022 13:23
LEAD	ND		2	UG/L	10	4/4/2022 13:23
ANTIMONY	ND		1	UG/L	10	4/4/2022 13:23
SELENIUM	ND		10	UG/L	10	4/4/2022 13:23
THALLIUM	ND		0.15	UG/L	10	4/4/2022 13:23
URANIUM	ND		0.1	UG/L	10	4/4/2022 13:23
VANADIUM	ND		5	UG/L	10	4/4/2022 13:23
ZINC	ND		100	UG/L	10	4/4/2022 13:23
Ion Chromatography		EPA300.0			Prep Date: 3/24/2022	PrepBy:AOW
CHLORIDE	ND		0.2	MG/L	1	3/24/2022 14:08
FLUORIDE	ND		0.1	MG/L	1	3/24/2022 14:08
NITRATE AS N	ND		0.2	MG/L	1	3/24/2022 14:08
NITRITE AS N	ND		0.15	MG/L	1	3/24/2022 14:08
SULFATE	2.5		1	MG/L	1	3/24/2022 14:08
Dissolved Mercury		SW7470			Prep Date: 3/30/2022	PrepBy:JSD
MERCURY	ND		0.0002	MG/L	1	3/30/2022 14:07
Nitrate/Nitrite as N		EPA353.2			Prep Date: 4/7/2022	PrepBy:AOW
NITRATE/NITRITE AS N	ND		0.2	MG/L	10	4/7/2022 10:44
pH		SM4500-H			Prep Date: 4/1/2022	PrepBy:KRL
PH	6.17		0.1	pH	1	4/1/2022
Total Cyanide		SW9014			Prep Date: 3/28/2022	PrepBy:KRL

Client: Telesto Solutions Inc

Date: 11-Apr-22

Project: 360100 LRM - Knox Pit

Work Order: 2203390

Sample ID: 03-Blank

Lab ID: 2203390-4

Legal Location:

Matrix: WATER

Collection Date: 3/22/2022 14:02

Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
CYANIDE, TOTAL	ND		0.015	MG/L	1	3/30/2022
Total Dissolved Solids		SM2540C				
TOTAL DISSOLVED SOLIDS	ND		20	MG/L	1	3/29/2022

Prep Date: 3/28/2022

PrepBy:KRL

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SAMPLE SUMMARY REPORT

Client: Telesto Solutions Inc
 Project: 360100 LRM - Knox Pit
 Sample ID: MW-13
 Legal Location:
 Collection Date: 3/22/2022 15:05

Date: 11-Apr-22
 Work Order: 2203390
 Lab ID: 2203390-5
 Matrix: WATER
 Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Alkalinity as Calcium Carbonate		SM2320B			Prep Date: 4/4/2022	PrepBy:KRL
BICARBONATE AS CaCO3	110		20	MG/L	1	4/4/2022
CARBONATE AS CaCO3	ND		20	MG/L	1	4/4/2022
TOTAL ALKALINITY AS CaCO3	110		20	MG/L	1	4/4/2022
Dissolved ICPMS Metals		SW6020			Prep Date: 3/31/2022	PrepBy:ETC
SILVER	ND		0.5	UG/L	10	4/4/2022 13:26
ALUMINUM	ND		100	UG/L	10	4/4/2022 13:26
ARSENIC	ND		2	UG/L	10	4/4/2022 13:26
BORON	ND		150	UG/L	10	4/4/2022 13:26
BARIUM	28		5	UG/L	10	4/4/2022 13:26
BERYLLIUM	ND		0.5	UG/L	10	4/4/2022 13:26
CALCIUM	42000		1000	UG/L	10	4/4/2022 13:26
CADMIUM	ND		2	UG/L	10	4/4/2022 13:26
COBALT	ND		5	UG/L	10	4/4/2022 13:26
CHROMIUM	ND		10	UG/L	10	4/4/2022 13:26
COPPER	ND		20	UG/L	10	4/4/2022 13:26
IRON	ND		100	UG/L	10	4/4/2022 13:26
POTASSIUM	ND		1000	UG/L	10	4/4/2022 13:26
LITHIUM	ND		20	UG/L	10	4/4/2022 13:26
MAGNESIUM	4700		100	UG/L	10	4/4/2022 13:26
MANGANESE	ND		10	UG/L	10	4/4/2022 13:26
MOLYBDENUM	2.8		2	UG/L	10	4/4/2022 13:26
SODIUM	4500		1000	UG/L	10	4/4/2022 13:26
NICKEL	ND		20	UG/L	10	4/4/2022 13:26
LEAD	ND		2	UG/L	10	4/4/2022 13:26
ANTIMONY	ND		1	UG/L	10	4/4/2022 13:26
SELENIUM	ND		10	UG/L	10	4/4/2022 13:26
THALLIUM	ND		0.15	UG/L	10	4/4/2022 13:26
URANIUM	1		0.1	UG/L	10	4/4/2022 13:26
VANADIUM	ND		5	UG/L	10	4/4/2022 13:26
ZINC	ND		100	UG/L	10	4/4/2022 13:26
Ion Chromatography		EPA300.0			Prep Date: 3/24/2022	PrepBy:AOW
CHLORIDE	3.6		0.4	MG/L	2	3/24/2022 14:32
FLUORIDE	0.32		0.2	MG/L	2	3/24/2022 14:32
NITRATE AS N	ND		0.4	MG/L	2	3/24/2022 14:32
NITRITE AS N	0.67		0.3	MG/L	2	3/24/2022 14:32
SULFATE	23		2	MG/L	2	3/24/2022 14:32
Dissolved Mercury		SW7470			Prep Date: 3/30/2022	PrepBy:JSD
MERCURY	ND		0.0002	MG/L	1	3/30/2022 14:14
Nitrate/Nitrite as N		EPA353.2			Prep Date: 4/7/2022	PrepBy:AOW
NITRATE/NITRITE AS N	ND		0.2	MG/L	10	4/7/2022 10:45
pH		SM4500-H			Prep Date: 4/1/2022	PrepBy:KRL
PH	7.88		0.1	pH	1	4/1/2022
Total Cyanide		SW9014			Prep Date: 3/28/2022	PrepBy:KRL

Client: Telesto Solutions Inc

Date: 11-Apr-22

Project: 360100 LRM - Knox Pit

Work Order: 2203390

Sample ID: MW-13

Lab ID: 2203390-5

Legal Location:

Matrix: WATER

Collection Date: 3/22/2022 15:05

Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
CYANIDE, TOTAL	ND		0.015	MG/L	1	3/30/2022
Total Dissolved Solids		SM2540C			Prep Date: 3/28/2022	PrepBy:KRL
TOTAL DISSOLVED SOLIDS	160		20	MG/L	1	3/29/2022

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SAMPLE SUMMARY REPORT

Client: Telesto Solutions Inc
 Project: 360100 LRM - Knox Pit
 Sample ID: MW-12
 Legal Location:
 Collection Date: 3/22/2022 15:40

Date: 11-Apr-22
 Work Order: 2203390
 Lab ID: 2203390-6
 Matrix: WATER
 Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Alkalinity as Calcium Carbonate		SM2320B			Prep Date: 4/4/2022	PrepBy:KRL
BICARBONATE AS CaCO3	130		20	MG/L	1	4/4/2022
CARBONATE AS CaCO3	ND		20	MG/L	1	4/4/2022
TOTAL ALKALINITY AS CaCO3	130		20	MG/L	1	4/4/2022
Dissolved ICPMS Metals		SW6020			Prep Date: 3/31/2022	PrepBy:ETC
SILVER	ND		0.5	UG/L	10	4/4/2022 13:29
ALUMINUM	2700		100	UG/L	10	4/4/2022 13:29
ARSENIC	ND		2	UG/L	10	4/4/2022 13:29
BORON	ND		150	UG/L	10	4/4/2022 13:29
BARIUM	50		5	UG/L	10	4/4/2022 13:29
BERYLLIUM	ND		0.5	UG/L	10	4/4/2022 13:29
CALCIUM	120000		1000	UG/L	10	4/4/2022 13:29
CADMIUM	ND		2	UG/L	10	4/4/2022 13:29
COBALT	ND		5	UG/L	10	4/4/2022 13:29
CHROMIUM	ND		10	UG/L	10	4/4/2022 13:29
COPPER	ND		20	UG/L	10	4/4/2022 13:29
IRON	2700		100	UG/L	10	4/4/2022 13:29
POTASSIUM	2100		1000	UG/L	10	4/4/2022 13:29
LITHIUM	ND		20	UG/L	10	4/4/2022 13:29
MAGNESIUM	10000		100	UG/L	10	4/4/2022 13:29
MANGANESE	50		10	UG/L	10	4/4/2022 13:29
MOLYBDENUM	4.4		2	UG/L	10	4/4/2022 13:29
SODIUM	13000		1000	UG/L	10	4/4/2022 13:29
NICKEL	ND		20	UG/L	10	4/4/2022 13:29
LEAD	ND		2	UG/L	10	4/4/2022 13:29
ANTIMONY	ND		1	UG/L	10	4/4/2022 13:29
SELENIUM	ND		10	UG/L	10	4/4/2022 13:29
THALLIUM	ND		0.15	UG/L	10	4/4/2022 13:29
URANIUM	3.4		0.1	UG/L	10	4/4/2022 13:29
VANADIUM	ND		5	UG/L	10	4/4/2022 13:29
ZINC	ND		100	UG/L	10	4/4/2022 13:29
Ion Chromatography		EPA300.0			Prep Date: 3/24/2022	PrepBy:AOW
CHLORIDE	9.1		0.4	MG/L	2	3/24/2022 14:20
FLUORIDE	0.64		0.2	MG/L	2	3/24/2022 14:20
NITRATE AS N	ND		0.4	MG/L	2	3/24/2022 14:20
NITRITE AS N	0.71		0.3	MG/L	2	3/24/2022 14:20
SULFATE	300		5	MG/L	5	4/1/2022 10:15
Dissolved Mercury		SW7470			Prep Date: 3/30/2022	PrepBy:JSD
MERCURY	ND		0.0002	MG/L	1	3/30/2022 14:16
Nitrate/Nitrite as N		EPA353.2			Prep Date: 4/7/2022	PrepBy:AOW
NITRATE/NITRITE AS N	ND		0.2	MG/L	10	4/7/2022 10:46
pH		SM4500-H			Prep Date: 4/1/2022	PrepBy:KRL
PH	7.48		0.1	pH	1	4/1/2022
Total Cyanide		SW9014			Prep Date: 3/28/2022	PrepBy:KRL

Client: Telesto Solutions Inc

Date: 11-Apr-22

Project: 360100 LRM - Knox Pit

Work Order: 2203390

Sample ID: MW-12

Lab ID: 2203390-6

Legal Location:

Matrix: WATER

Collection Date: 3/22/2022 15:40

Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
CYANIDE, TOTAL	ND		0.015	MG/L	1	3/30/2022
Total Dissolved Solids		SM2540C				
TOTAL DISSOLVED SOLIDS	480		20	MG/L	1	3/29/2022

Prep Date: 3/28/2022

PrepBy:KRL

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SAMPLE SUMMARY REPORT

Client: Telesto Solutions Inc
 Project: 360100 LRM - Knox Pit
 Sample ID: MW-19
 Legal Location:
 Collection Date: 3/22/2022 16:20

Date: 11-Apr-22
 Work Order: 2203390
 Lab ID: 2203390-7
 Matrix: WATER
 Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Alkalinity as Calcium Carbonate		SM2320B			Prep Date: 4/4/2022	PrepBy:KRL
BICARBONATE AS CaCO3	160		20	MG/L	1	4/4/2022
CARBONATE AS CaCO3	ND		20	MG/L	1	4/4/2022
TOTAL ALKALINITY AS CaCO3	160		20	MG/L	1	4/4/2022
Dissolved ICPMS Metals		SW6020			Prep Date: 3/31/2022	PrepBy:ETC
SILVER	ND		0.5	UG/L	10	4/4/2022 13:32
ALUMINUM	ND		100	UG/L	10	4/4/2022 13:32
ARSENIC	ND		2	UG/L	10	4/4/2022 13:32
BORON	ND		150	UG/L	10	4/4/2022 13:32
BARIUM	38		5	UG/L	10	4/4/2022 13:32
BERYLLIUM	ND		0.5	UG/L	10	4/4/2022 13:32
CALCIUM	74000		1000	UG/L	10	4/4/2022 13:32
CADMIUM	ND		2	UG/L	10	4/4/2022 13:32
COBALT	ND		5	UG/L	10	4/4/2022 13:32
CHROMIUM	ND		10	UG/L	10	4/4/2022 13:32
COPPER	ND		20	UG/L	10	4/4/2022 13:32
IRON	ND		100	UG/L	10	4/4/2022 13:32
POTASSIUM	1100		1000	UG/L	10	4/4/2022 13:32
LITHIUM	ND		20	UG/L	10	4/4/2022 13:32
MAGNESIUM	8700		100	UG/L	10	4/4/2022 13:32
MANGANESE	11		10	UG/L	10	4/4/2022 13:32
MOLYBDENUM	2.7		2	UG/L	10	4/4/2022 13:32
SODIUM	7100		1000	UG/L	10	4/4/2022 13:32
NICKEL	ND		20	UG/L	10	4/4/2022 13:32
LEAD	ND		2	UG/L	10	4/4/2022 13:32
ANTIMONY	ND		1	UG/L	10	4/4/2022 13:32
SELENIUM	ND		10	UG/L	10	4/4/2022 13:32
THALLIUM	ND		0.15	UG/L	10	4/4/2022 13:32
URANIUM	2.6		0.1	UG/L	10	4/4/2022 13:32
VANADIUM	ND		5	UG/L	10	4/4/2022 13:32
ZINC	ND		100	UG/L	10	4/4/2022 13:32
Ion Chromatography		EPA300.0			Prep Date: 3/24/2022	PrepBy:AOW
CHLORIDE	5.5		0.4	MG/L	2	3/24/2022 14:26
FLUORIDE	0.39		0.2	MG/L	2	3/24/2022 14:26
NITRATE AS N	ND		0.4	MG/L	2	3/24/2022 14:26
NITRITE AS N	1.1		0.3	MG/L	2	3/24/2022 14:26
SULFATE	67		2	MG/L	2	3/24/2022 14:26
Dissolved Mercury		SW7470			Prep Date: 3/30/2022	PrepBy:JSD
MERCURY	ND		0.0002	MG/L	1	3/30/2022 14:18
Nitrate/Nitrite as N		EPA353.2			Prep Date: 4/7/2022	PrepBy:AOW
NITRATE/NITRITE AS N	ND		0.2	MG/L	10	4/7/2022 10:47
pH		SM4500-H			Prep Date: 4/1/2022	PrepBy:KRL
PH	7.72		0.1	pH	1	4/1/2022
Total Cyanide		SW9014			Prep Date: 3/28/2022	PrepBy:KRL

Client: Telesto Solutions Inc

Date: 11-Apr-22

Project: 360100 LRM - Knox Pit

Work Order: 2203390

Sample ID: MW-19

Lab ID: 2203390-7

Legal Location:

Matrix: WATER

Collection Date: 3/22/2022 16:20

Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
CYANIDE, TOTAL	ND		0.015	MG/L	1	3/30/2022
Total Dissolved Solids		SM2540C				
TOTAL DISSOLVED SOLIDS	280		20	MG/L	1	3/29/2022

Prep Date: 3/28/2022

PrepBy:KRL

Client:	Telesto Solutions Inc	Date:	11-Apr-22
Project:	360100 LRM - Knox Pit	Work Order:	2203390
Sample ID:	MW-19	Lab ID:	2203390-7
Legal Location:		Matrix:	WATER
Collection Date:	3/22/2022 16:20	Percent Moisture:	

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
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Explanation of Qualifiers

Radiochemistry:

- "Report Limit" is the MDC	M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
U or ND - Result is less than the sample specific MDC.	L - LCS Recovery below lower control limit.
Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.	H - LCS Recovery above upper control limit.
Y2 - Chemical Yield outside default limits.	P - LCS, Matrix Spike Recovery within control limits.
W - DER is greater than Warning Limit of 1.42	N - Matrix Spike Recovery outside control limits
* - Aliquot Basis is 'As Received' while the Report Basis is 'Dry Weight'.	NC - Not Calculated for duplicate results less than 5 times MDC
# - Aliquot Basis is 'Dry Weight' while the Report Basis is 'As Received'.	B - Analyte concentration greater than MDC.
G - Sample density differs by more than 15% of LCS density.	B3 - Analyte concentration greater than MDC but less than Requested MDC.
D - DER is greater than Control Limit	
M - Requested MDC not met.	

Inorganics:

B - Result is less than the requested reporting limit but greater than the instrument method detection limit (MDL).

U or ND - Indicates that the compound was analyzed for but not detected.

E - The reported value is estimated because of the presence of interference. An explanatory note may be included in the narrative.

M - Duplicate injection precision was not met.

N - Spiked sample recovery not within control limits. A post spike is analyzed for all ICP analyses when the matrix spike and or spike duplicate fail and the native sample concentration is less than four times the spike added concentration.

Z - Spiked recovery not within control limits. An explanatory note may be included in the narrative.

* - Duplicate analysis (relative percent difference) not within control limits.

S - SAR value is estimated as one or more analytes used in the calculation were not detected above the detection limit.

Organics:

U or ND - Indicates that the compound was analyzed for but not detected.

B - Analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user.

E - Analyte concentration exceeds the upper level of the calibration range.

J - Estimated value. The result is less than the reporting limit but greater than the instrument method detection limit (MDL).

A - A tentatively identified compound is a suspected aldol-condensation product.

X - The analyte was diluted below an accurate quantitation level.

* - The spike recovery is equal to or outside the control criteria used.

+ - The relative percent difference (RPD) equals or exceeds the control criteria.

G - A pattern resembling gasoline was detected in this sample.

D - A pattern resembling diesel was detected in this sample.

M - A pattern resembling motor oil was detected in this sample.

C - A pattern resembling crude oil was detected in this sample.

4 - A pattern resembling JP-4 was detected in this sample.

5 - A pattern resembling JP-5 was detected in this sample.

H - Indicates that the fuel pattern was in the heavier end of the retention time window for the analyte of interest.

L - Indicates that the fuel pattern was in the lighter end of the retention time window for the analyte of interest.

Z - This flag indicates that a significant fraction of the reported result did not resemble the patterns of any of the following petroleum hydrocarbon products:

- gasoline
- JP-8
- diesel
- mineral spirits
- motor oil
- Stoddard solvent
- bunker C

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Date: 4/11/2022 3:23:4

Client: Telesto Solutions Inc

Work Order: 2203390

Project: 360100 LRM - Knox Pit

QC BATCH REPORT

Batch ID: HG220330-1-1

Instrument ID: CETAC7600

Method: SW7470

LCS	Sample ID: HG220330-1				Units: MG/L		Analysis Date: 3/30/2022 13:52				
Client ID:	Run ID: HG220401-1A1				Prep Date: 3/30/2022			DF: 1			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
MERCURY	0.00101	0.0002	0.001		101	80-120				20	

LCSD	Sample ID: HG220330-1				Units: MG/L		Analysis Date: 3/30/2022 13:54				
Client ID:	Run ID: HG220401-1A1				Prep Date: 3/30/2022			DF: 1			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
MERCURY	0.00103	0.0002	0.001		103	80-120		0.00101	2	20	

MB	Sample ID: HG220330-1	Units: MG/L	Analysis Date: 3/30/2022 13:49
Client ID:	Run ID: HG220401-1A1	Prep Date: 3/30/2022	DF: 1
Analyte	Result	ReportLimit	Qual
MERCURY	ND	0.0002	

The following samples were analyzed in this batch:

2203390-1	2203390-2	2203390-3
2203390-4	2203390-5	2203390-6
2203390-7		

Client: Telesto Solutions Inc
 Work Order: 2203390
 Project: 360100 LRM - Knox Pit

QC BATCH REPORT

Batch ID: IP220331-2-1 Instrument ID: ICPMS2 Method: SW6020

LCS		Sample ID: IM220331-2		Units: UG/L		Analysis Date: 4/4/2022 12:42					
Client ID:		Run ID: IM220404-10A7		Prep Date: 3/31/2022		DF: 10					
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
ALUMINUM	5160	100	5000		103	80-120				20	
ANTIMONY	29.5	1	30		98	80-120				20	
ARSENIC	110	2	100		110	80-120				20	
BARIUM	102	5	100		102	80-120				20	
BERYLLIUM	54.1	0.5	50		108	80-120				20	
BORON	2100	150	2000		105	80-120				20	
CADMIUM	31	2	30		103	80-120				20	
CALCIUM	11100	1000	10000		111	80-120				20	
CHROMIUM	572	10	500		114	80-120				20	
COBALT	112	5	100		112	80-120				20	
COPPER	1100	20	1000		110	80-120				20	
IRON	4850	100	5000		97	80-120				20	
LEAD	53.8	2	50		108	80-120				20	
LITHIUM	1030	20	1000		103	80-120				20	
MAGNESIUM	10400	100	10000		104	80-120				20	
MANGANESE	109	10	100		109	80-120				20	
MOLYBDENUM	110	2	100		110	80-120				20	
NICKEL	520	20	500		104	80-120				20	
POTASSIUM	5500	1000	5000		110	80-120				20	
SELENIUM	104	10	100		104	80-120				20	
SILVER	10.5	0.5	10		105	80-120				20	
SODIUM	10600	1000	10000		106	80-120				20	
THALLIUM	2.2	0.15	2		110	80-120				20	
URANIUM	10.8	0.1	10		108	80-120				20	
VANADIUM	102	5	100		102	80-120				20	
ZINC	2150	100	2000		108	80-120				20	

Client: Telesto Solutions Inc
 Work Order: 2203390
 Project: 360100 LRM - Knox Pit

QC BATCH REPORT

Batch ID: **IP220331-2-1** Instrument ID: **ICPMS2** Method: **SW6020**

LCSD		Sample ID: IM220331-2		Units: UG/L		Analysis Date: 4/4/2022 12:47					
Client ID:		Run ID: IM220404-10A7		Prep Date: 3/31/2022		DF: 10					
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
ALUMINUM	5240	100	5000		105	80-120		5160	2	20	
ANTIMONY	29.4	1	30		98	80-120		29.5	0	20	
ARSENIC	111	2	100		111	80-120		110	1	20	
BARIUM	97.8	5	100		98	80-120		102	4	20	
BERYLLIUM	53.4	0.5	50		107	80-120		54.1	1	20	
BORON	2050	150	2000		102	80-120		2100	3	20	
CADMIUM	31.3	2	30		104	80-120		31	1	20	
CALCIUM	11100	1000	10000		111	80-120		11100	1	20	
CHROMIUM	574	10	500		115	80-120		572	0	20	
COBALT	110	5	100		110	80-120		112	2	20	
COPPER	1090	20	1000		109	80-120		1100	1	20	
IRON	4750	100	5000		95	80-120		4850	2	20	
LEAD	53.5	2	50		107	80-120		53.8	0	20	
LITHIUM	1020	20	1000		102	80-120		1030	0	20	
MAGNESIUM	10400	100	10000		104	80-120		10400	0	20	
MANGANESE	108	10	100		108	80-120		109	1	20	
MOLYBDENUM	109	2	100		109	80-120		110	1	20	
NICKEL	517	20	500		103	80-120		520	1	20	
POTASSIUM	5480	1000	5000		110	80-120		5500	0	20	
SELENIUM	104	10	100		104	80-120		104	0	20	
SILVER	10.4	0.5	10		104	80-120		10.5	1	20	
SODIUM	10600	1000	10000		106	80-120		10600	0	20	
THALLIUM	2.17	0.15	2		109	80-120		2.2	1	20	
URANIUM	10.8	0.1	10		108	80-120		10.8	0	20	
VANADIUM	100	5	100		100	80-120		102	1	20	
ZINC	2100	100	2000		105	80-120		2150	2	20	

Client: Telesto Solutions Inc
Work Order: 2203390
Project: 360100 LRM - Knox Pit

QC BATCH REPORT

Batch ID: **IP220331-2-1** Instrument ID: **ICPMS2** Method: **SW6020**

MB Sample ID: **IP220331-2** Units: **UG/L** Analysis Date: **4/4/2022 12:33**
Client ID: Run ID: **IM220404-10A7** Prep Date: **3/31/2022** DF: **10**

Analyte	Result	ReportLimit	Qual
ALUMINUM	ND	100	
ANTIMONY	ND	1	
ARSENIC	ND	2	
BARIUM	ND	5	
BERYLLIUM	ND	0.5	
BORON	ND	150	
CADMIUM	ND	2	
CALCIUM	ND	1000	
CHROMIUM	ND	10	
COBALT	ND	5	
COPPER	ND	20	
IRON	ND	100	
LEAD	ND	2	
LITHIUM	ND	20	
MAGNESIUM	ND	100	
MANGANESE	ND	10	
MOLYBDENUM	ND	2	
NICKEL	ND	20	
POTASSIUM	ND	1000	
SELENIUM	ND	10	
SILVER	ND	0.5	
SODIUM	ND	1000	
THALLIUM	ND	0.15	
URANIUM	ND	0.1	
VANADIUM	ND	5	
ZINC	ND	100	

The following samples were analyzed in this batch:

2203390-1	2203390-2	2203390-3
2203390-4	2203390-5	2203390-6
2203390-7		

Client: Telesto Solutions Inc
Work Order: 2203390
Project: 360100 LRM - Knox Pit

QC BATCH REPORT

Batch ID: **AK220404-1-1** Instrument ID: **NONE** Method: **SM2320B**

DUP	Sample ID: 2203390-7		Units: MG/L				Analysis Date: 4/4/2022				
Client ID: MW-19		Run ID: AK220404-1A1				Prep Date: 4/4/2022			DF: 1		
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
BICARBONATE AS CaCO3	150	20						160	6	15	
CARBONATE AS CaCO3	ND	20						20		15	
TOTAL ALKALINITY AS CaCO3	150	20						160	6	15	

LCS	Sample ID: AK220404-1		Units: MG/L				Analysis Date: 4/4/2022				
Client ID:		Run ID: AK220404-1A1				Prep Date: 4/4/2022			DF: 1		
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
TOTAL ALKALINITY AS CaCO3	97.6	5	100		98	85-115				15	

MB	Sample ID: AK220404-1		Units: MG/L				Analysis Date: 4/4/2022				
Client ID:		Run ID: AK220404-1A1				Prep Date: 4/4/2022			DF: 1		
Analyte	Result	ReportLimit									Qual
BICARBONATE AS CaCO3	ND	5									
CARBONATE AS CaCO3	ND	5									
TOTAL ALKALINITY AS CaCO3	ND	5									

The following samples were analyzed in this batch:

2203390-1	2203390-2	2203390-3
2203390-4	2203390-5	2203390-6
2203390-7		

Client: Telesto Solutions Inc
Work Order: 2203390
Project: 360100 LRM - Knox Pit

QC BATCH REPORT

Batch ID: **CN220328-2-1** Instrument ID: **Spec** Method: **SW9014**

LCS	Sample ID: CN220328-2			Units: MG/L			Analysis Date: 3/29/2022				
Client ID:		Run ID: CN220329-1A1			Prep Date: 3/28/2022			DF: 1			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
CYANIDE, TOTAL	0.198	0.015	0.2		99	85-115				30	

LCSD		Sample ID: CN220328-2			Units: MG/L		Analysis Date: 3/29/2022				
Client ID:		Run ID: CN220329-1A1			Prep Date: 3/28/2022			DF: 1			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
CYANIDE, TOTAL	0.193	0.015	0.2		97	85-115		0.198	2	30	

MB		Sample ID: CN220328-2			Units: MG/L		Analysis Date: 3/29/2022	
Client ID:		Run ID: CN220329-1A1			Prep Date: 3/28/2022		DF: 1	
Analyte		Result	ReportLimit		Qual			
CYANIDE, TOTAL		ND	0.015					

The following samples were analyzed in this batch:

2203390-1	2203390-2	2203390-3
2203390-4	2203390-5	2203390-6
2203390-7		

Client: Telesto Solutions Inc
Work Order: 2203390
Project: 360100 LRM - Knox Pit

QC BATCH REPORT

Batch ID: IC220324-2-1 Instrument ID: IC3 Method: EPA300.0

LCS	Sample ID: IC220324-2				Units: MG/L		Analysis Date: 3/24/2022 14:56				
Client ID:		Run ID: IC220324-1A1				Prep Date: 3/24/2022			DF: 1		
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
FLUORIDE	5.04	0.1	5		101	90-110				15	
CHLORIDE	10.4	0.2	10		104	90-110				15	
NITRITE AS N	5.12	0.15	5		102	90-110				15	
NITRATE AS N	10.6	0.2	10		106	90-110				15	
SULFATE	52.3	1	50		105	90-110				15	

LCSD	Sample ID: IC220324-2				Units: MG/L		Analysis Date: 3/24/2022 15:14				
Client ID:	Run ID: IC220324-1A1				Prep Date: 3/24/2022			DF: 1			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
FLUORIDE	5.25	0.1	5		105	90-110		5.04	4	15	
CHLORIDE	10.8	0.2	10		108	90-110		10.4	4	15	
NITRITE AS N	5.34	0.15	5		107	90-110		5.12	4	15	
NITRATE AS N	11	0.2	10		110	90-110		10.6	4	15	
SULFATE	54.1	1	50		108	90-110		52.3	3	15	

MB		Sample ID: IC220324-2			Units: MG/L		Analysis Date: 3/24/2022 15:02		
Client ID:		Run ID: IC220324-1A1			Prep Date: 3/24/2022		DF: 1		
Analyte		Result	ReportLimit						Qual
FLUORIDE		ND	0.1						
CHLORIDE		ND	0.2						
NITRITE AS N		ND	0.15						
NITRATE AS N		ND	0.2						
SULFATE		ND	1						

MS	Sample ID: 2203390-3				Units: MG/L		Analysis Date: 3/24/2022 14:02				
Client ID: 02-MW-10		Run ID: IC220324-1A1				Prep Date: 3/24/2022			DF: 5		
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
FLUORIDE	11.3	0.5	10	0.5	113	85-115				15	
NITRITE AS N	8.5	0.75	10	1	75	85-115				15	N
NITRATE AS N	31.8	1	25	3.1	115	85-115				15	

The following samples were analyzed in this batch:

2203390-1	2203390-2	2203390-3
2203390-4	2203390-5	2203390-6
2203390-7		

Client: Telesto Solutions Inc
Work Order: 2203390
Project: 360100 LRM - Knox Pit

QC BATCH REPORT

Batch ID: **IC220324-2-1** Instrument ID: **IC3** Method: **EPA300.0**

MS Sample ID: **2203390-3** Units: **MG/L** Analysis Date: **4/1/2022 10:09**
Client ID: **02-MW-10** Run ID: **IC220401-1A1** Prep Date: **3/24/2022** DF: **25**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
SULFATE	1770	25	500	1300	100	85-115				15	

The following samples were analyzed in this batch:

2203390-1	2203390-2	2203390-3
2203390-4	2203390-5	2203390-6
2203390-7		

Client: Telesto Solutions Inc
Work Order: 2203390
Project: 360100 LRM - Knox Pit

QC BATCH REPORT

Batch ID: **NN220407-1-1** Instrument ID: **Lachat** Method: **EPA353.2**

LCS	Sample ID: NN220407-1				Units: MG/L		Analysis Date: 4/7/2022 10:27				
Client ID:		Run ID: NN220407-1A1				Prep Date: 4/7/2022			DF: 1		
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
NITRATE/NITRITE AS N	0.477	0.02	0.5		95	90-110				20	

LCSD		Sample ID: NN220407-1			Units: MG/L		Analysis Date: 4/7/2022 10:28				
Client ID:		Run ID: NN220407-1A1			Prep Date: 4/7/2022			DF: 1			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
NITRATE/NITRITE AS N	0.468	0.02	0.5		94	90-110		0.477	2	20	

MB		Sample ID: NN220407-1		Units: MG/L		Analysis Date: 4/7/2022 10:26	
Client ID:		Run ID: NN220407-1A1		Prep Date: 4/7/2022		DF: 1	
Analyte		Result	ReportLimit	Qual			
NITRATE/NITRITE AS N		ND	0.02				

The following samples were analyzed in this batch:

2203390-1	2203390-2	2203390-3
2203390-4	2203390-5	2203390-6
2203390-7		

Client: Telesto Solutions Inc
Work Order: 2203390
Project: 360100 LRM - Knox Pit

QC BATCH REPORT

Batch ID: **TD220328-1-1** Instrument ID: **Balance** Method: **SM2540C**

DUP	Sample ID: 2203390-2		Units: MG/L				Analysis Date: 3/29/2022				
Client ID: MW-10		Run ID: TD220329-1A1				Prep Date: 3/28/2022			DF: 1		
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
TOTAL DISSOLVED SOLIDS	1610	40						1600	2	14	

LCS	Sample ID: TD220328-1		Units: MG/L				Analysis Date: 3/29/2022				
Client ID:		Run ID: TD220329-1A1				Prep Date: 3/28/2022			DF: 1		
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
TOTAL DISSOLVED SOLIDS	394	20	400		99	85-115				14	

LCSD	Sample ID: TD220328-1		Units: MG/L				Analysis Date: 3/29/2022				
Client ID:		Run ID: TD220329-1A1				Prep Date: 3/28/2022			DF: 1		
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
TOTAL DISSOLVED SOLIDS	384	20	400		96	85-115		394	3	14	

MB	Sample ID: TD220328-1		Units: MG/L				Analysis Date: 3/29/2022				
Client ID:		Run ID: TD220329-1A1				Prep Date: 3/28/2022			DF: 1		
Analyte	Result	ReportLimit									Qual
TOTAL DISSOLVED SOLIDS	ND	20									

The following samples were analyzed in this batch:

2203390-1	2203390-2	2203390-3
2203390-4	2203390-5	2203390-6
2203390-7		



Saturday, July 30, 2022

Tim Gerken
Telesto Solutions Inc
750 14th Street, SW
Loveland, CO 80537

Re: ALS Workorder: 2207283
Project Name: LRM - Knox Pit
Project Number: 360100

Dear Mr. Gerken:

Seven water samples were received from Telesto Solutions Inc, on 7/13/2022. The samples were scheduled for the following analyses:

Inorganics

Metals

The results for these analyses are contained in the enclosed reports.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental.

Thank you for your confidence in ALS Environmental. Should you have any questions, please call.

Sincerely,

ALS Environmental
Katie M. O'Brien
Project Manager

	Accreditations	Effective June 7, 2022
	ALS Environmental – Fort Collins	

Accreditations: ALS Environmental – Fort Collins is accredited by the following accreditation bodies for various testing scopes in accordance with requirements of each accreditation body. All testing is performed under the laboratory management system, which is maintained to meet these requirement and regulations. Please contact the laboratory or accreditation body for the current scope testing parameters.

ALS Environmental – Fort Collins	
Accreditation Body	License or Certification Number
Arizona	AZ0828
California (CA)	2926
Colorado (CO)	CO01099
Florida (FL)	E87914
Idaho (ID)	CO01099
Kansas (KS)	E-10381
Kentucky (KY)	90137
Oklahoma	1301
Louisiana	197538
Maryland (MD)	285
PJLA (DoD ELAP/ISO 170250)	95377
PJLA (DOE-AP/ISO 17025)	95377
Nebraska(NE)	NE-OS-24-13
Nevada (NV)	CO010992018-1
New York (NY)	12036
North Dakota (ND)	R-057
Oklahoma (OK)	1301
Pennsylvania (PA)	68-03116
Tennessee (TN)	TN02976
Texas (TX)	T104704241
Utah (UT)	CO01099
Washington (WA)	C1280
Virginia	460305

40 CFR Part 136: All analyses for Clean Water Act samples are analyzed using the 40 CFR Part 136 specified method and include all the QC requirements.



2207283

Metals:

The samples were analyzed following SW-846, 3rd Edition procedures. Analysis by ICPMS followed method 6020B and the current revision of SOP 827. Mercury analysis by CVAA followed method 7470A and the current revision of SOP 812.

The samples for dissolved metals had been filtered prior to receipt, and had a pH less than 2 upon receipt.

All acceptance criteria were met.

Inorganics:

The samples were analyzed following SW-846, EMSL and Standard Method procedures for the current revisions of the following SOPs and methods:

<u>Analyte</u>	<u>Method</u>	<u>SOP #</u>
Alkalinity	SM2320B	1106
Bicarbonate	SM2320B	1106
Carbonate	SM2320B	1106
Total cyanide	9014	1110
Nitrate/nitrite as N	353.2 Revision 2.0	1127
pH	SM4500-H ⁺ B	1126
TDS	SM2540C	1101
Chloride	300.0 Revision 2.1	1113
Fluoride	300.0 Revision 2.1	1113
Sulfate	300.0 Revision 2.1	1113

Please note that the nitrate as N and nitrite as N is not being reported by EPA 300.0 due to missed holding time due to a miscommunication.

All other acceptance criteria were met.

ALS -- Fort Collins

Sample Number(s) Cross-Reference Table

OrderNum: 2207283

Client Name: Telesto Solutions Inc

Client Project Name: LRM - Knox Pit

Client Project Number: 360100

Client PO Number:

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
MW-06	2207283-1		WATER	13-Jul-22	12:30
MW-10	2207283-2		WATER	13-Jul-22	13:32
MW-13	2207283-3		WATER	13-Jul-22	14:08
MW-12	2207283-4		WATER	13-Jul-22	14:32
MW-19	2207283-5		WATER	13-Jul-22	15:15
02-MW-19	2207283-6		WATER	13-Jul-22	15:23
03-Blank	2207283-7		WATER	13-Jul-22	15:33



ALS Environmental

225 Commerce Drive, Fort Collins, Colorado 80524
TF: (800) 443-1511 PH: (970) 480-1511 FX: (970) 480-1522

Chain-of-Custody

Form 20248

PROJECT NAME 360100-LRM		SAMPLER Tim Gerken		DATE 7/13/22		WORKORDER # 2207283	
PROJECT NO. Knox Pit		SITE ID		TURNAROUND		PAGE 1 of 3	
COMPANY NAME Teleso Solutions		EDD FORMAT		By Lab or		Return to Client	
SEND REPORT TO Tim Gerken		PURCHASE ORDER		DISPOSAL			
ADDRESS		BILL TO COMPANY					
CITY / STATE / ZIP		INVOICE ATTN TO					
PHONE 720-438-5513		ADDRESS					
FAX		CITY / STATE / ZIP					
E-MAIL tgerken@teleso-inc.com		PHONE					
		FAX					
		E-MAIL					

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC
1	MW-06-RAW	W	7/13/22	12:30	1	-	X
	MW-06-Filtered			12:30	1	2	X
	MW-06			12:30	1	3	X
	MW-06			12:30	1	4	X
2	MW-10-RAW			13:32	1	-	X
	MW-10-Filtered			13:32	1	2	X
	MW-10			13:32	1	3	X
	MW-10			13:32	1	4	X
3	MW-13-RAW			14:08	1	-	X
	MW-13-Filtered			14:08	1	2	X

*Time Zone (Circle): EST CST MST PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

For metals or anions, please detail analytes below.

Comments: -Dissolved Metals Field Filtered 2 pc	QC PACKAGE (check below)			
	LEVEL II (Standard QC)			
	LEVEL III (Std QC + forms)			
	LEVEL IV (Std QC + forms + raw data)			
Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035				

RELINQUISHED BY	SIGNATURE	PRINTED NAME	DATE	TIME
RECEIVED BY	Tim Gerken	Tim Gerken	7/13/22	16:03
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				



ALS Environmental

225 Commerce Drive, Fort Collins, Colorado 80524
TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522

Chain-of-Custody

Form 20246

WORKORDER # **2207283**

PAGE **2** of **3**

DATE **7/13/22**

SAMPLER **Tim Gerken**

TURNAROUND

By Lab or Return to Client

PROJECT NAME	PROJECT NO.	COMPANY NAME	SEND REPORT TO	ADDRESS	CITY / STATE / ZIP	PHONE	FAX	E-MAIL	SAMPLER	SITE ID	EDD FORMAT	PURCHASE ORDER	BILL TO COMPANY	INVOICE ATTN TO	ADDRESS	CITY / STATE / ZIP	PHONE	FAX	E-MAIL	DATE	TURNAROUND	DISPOSAL	PAGE	By Lab or Return to Client	
LRM-360100	Knox Pit	Teleso Solutions	Tim Gerken	SAH& AS	PAGE 1																				
Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC																		
3	MW-13	W	7/13/22	14:08	1	3																			
	MW-13			14:08	1	4																			
4	MW-12-RAW			14:32	1	-																			
	MW-12-Filtered			14:32	1	2																			
	MW-12			14:32	1	3																			
	MW-12			14:32	1	4																			
	MW-19-RAW			15:15	1	-																			
5	MW-19-Filtered			15:15	1	2																			
	MW-19			15:15	1	3																			
	MW-19			15:15	1	4																			

*Time Zone (Circle): EST CST MST PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

For metals or anions, please detail analytes below.

Comments:	QC PACKAGE (check below)	RELINQUISHED BY	SIGNATURE	PRINTED NAME	DATE	TIME
Dissolved Metals-Field Filters 2.70	LEVEL II (Standard QC)	RECEIVED BY	Tim Gerken	Tim Gerken	7/13/22	16:03
	LEVEL III (Std QC + forms)	RELINQUISHED BY	Amulkephat	Amulkephat	7/13/22	16:05
	LEVEL IV (Std QC + forms + raw data)	RECEIVED BY				
		RELINQUISHED BY				
		RECEIVED BY				

Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035



Chain-of-Custody

Form 202r8

[illegible]

Time Zone (Circle):	EST	CST	MST	PST	Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

For metals or anions, please detail analytes below.

Comments: Dissolved Metals- Field Filters 27°	QC PACKAGE (check below)		1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035
	LEVEL II (Standard QC)		
	LEVEL III (Std QC + forms)		
	LEVEL IV (Std QC + forms + raw data)		

RELINQUISHED BY	SIGNATURE	PRINTED NAME	DATE	TIME
RECEIVED BY	<i>[Signature]</i>	Tim Gester	7/13/22	16:03
RELINQUISHED BY	<i>[Signature]</i>	May K. Pham	7/13/22	16:03
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

~~7 of 32~~^{PR}



ALS Environmental - Fort Collins
CONDITION OF SAMPLE UPON RECEIPT FORM

Client: TELESTO Workorder No: 2207283
 Project Manager: KMO Initials: AXK Date: 07/13/2022

	N/A	YES	NO
1. Are airbills / shipping documents present and/or removable?	X		
Tracking number:			
2. Are custody seals on shipping containers intact?	X		
3. Are custody seals on sample containers intact?	X		
4. Is there a COC (chain-of-custody) present?		X	
5. Is the COC in agreement with samples received? (IDs, dates, times, # of samples, # of containers, matrix, requested analyses, etc.)		X	
6. Are short-hold samples present?			X
7. Are all samples within holding times for the requested analyses?		X	
8. Were all sample containers received intact? (not broken or leaking)		X	
9. Is there sufficient sample for the requested analyses?		X	
10. Are samples in proper containers for requested analyses? (form 250, <i>Sample Handling Guidelines</i>)		X	
11. Are all aqueous samples preserved correctly, if required? (excluding volatiles)		X	
12. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, radon) free of bubbles > 6 mm (1/4 inch) diameter? (i.e. size of green pea)	X		
13. Were the samples shipped on ice?		X	
14. Were cooler temperatures measured at 0.1-6.0°C?	IR gun used*: <u>#6</u>	RAD ONLY	X
Cooler #: <u>1</u> Temperature (°C): <u>2.7</u> # of custody seals on cooler: <u>0</u> External µR/hr reading: <u>-</u> Background µR/hr reading: <u>12</u> Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? <u>NA</u> (If no, see Form 008.)			

*** Please provide details here for NO responses to boxes above - for 2 thru 5 & 7 thru 12, notify PM & continue w/ login.**

Were unpreserved bottles pH checked? NA All client bottle ID's vs ALS lab ID's double-checked by: AK

If applicable, was the client contacted? NA Contact: _____ Date/Time: _____

Project Manager Signature / Date: *AK* 7/15/22

ALS -- Fort Collins

SAMPLE SUMMARY REPORT

Client: Telesto Solutions Inc
 Project: 360100 LRM - Knox Pit
 Sample ID: MW-06
 Legal Location:
 Collection Date: 7/13/2022 12:30

Date: 27-Jul-22
 Work Order: 2207283
 Lab ID: 2207283-1
 Matrix: WATER
 Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Alkalinity as Calcium Carbonate		SM2320B			Prep Date: 7/21/2022	PrepBy:AOW
BICARBONATE AS CaCO3	200		20	MG/L	1	7/21/2022
CARBONATE AS CaCO3	ND		20	MG/L	1	7/21/2022
TOTAL ALKALINITY AS CaCO3	200		20	MG/L	1	7/21/2022
Dissolved ICPMS Metals		SW6020			Prep Date: 7/18/2022	PrepBy:ETC
SILVER	ND		1.4	UG/L	10	7/21/2022 16:29
ALUMINUM	ND		100	UG/L	10	7/21/2022 16:29
ARSENIC	ND		2	UG/L	10	7/21/2022 16:29
BORON	ND		150	UG/L	10	7/21/2022 16:29
BARIUM	26		5	UG/L	10	7/21/2022 16:29
BERYLLIUM	ND		0.5	UG/L	10	7/21/2022 16:29
CALCIUM	380000		1000	UG/L	10	7/21/2022 16:29
CADMIUM	ND		2	UG/L	10	7/21/2022 16:29
COBALT	ND		5	UG/L	10	7/21/2022 16:29
CHROMIUM	ND		10	UG/L	10	7/21/2022 16:29
COPPER	ND		20	UG/L	10	7/21/2022 16:29
IRON	ND		100	UG/L	10	7/21/2022 16:29
POTASSIUM	5000		1000	UG/L	10	7/21/2022 16:29
LITHIUM	ND		20	UG/L	10	7/21/2022 16:29
MAGNESIUM	21000		100	UG/L	10	7/21/2022 16:29
MANGANESE	ND		10	UG/L	10	7/21/2022 16:29
MOLYBDENUM	7.2		2	UG/L	10	7/21/2022 16:29
SODIUM	14000		1000	UG/L	10	7/21/2022 16:29
NICKEL	ND		20	UG/L	10	7/21/2022 16:29
LEAD	ND		2	UG/L	10	7/21/2022 16:29
ANTIMONY	ND		1	UG/L	10	7/21/2022 16:29
SELENIUM	14		10	UG/L	10	7/21/2022 16:29
THALLIUM	ND		0.15	UG/L	10	7/21/2022 16:29
URANIUM	23		0.1	UG/L	10	7/21/2022 16:29
VANADIUM	ND		5	UG/L	10	7/21/2022 16:29
ZINC	ND		100	UG/L	10	7/21/2022 16:29
Ion Chromatography		EPA300.0			Prep Date: 7/19/2022	PrepBy:AOW
CHLORIDE	17		1	MG/L	5	7/19/2022 13:05
FLUORIDE	ND		1.3	MG/L	5	7/19/2022 13:05
SULFATE	890		20	MG/L	20	7/19/2022 16:13
Dissolved Mercury		SW7470			Prep Date: 7/23/2022	PrepBy:WJS
MERCURY	ND		0.0002	MG/L	1	7/25/2022 11:16
Nitrate/Nitrite as N		EPA353.2			Prep Date: 7/25/2022	PrepBy:AOW
NITRATE/NITRITE AS N	5.9		0.2	MG/L	10	7/25/2022 11:02
pH		SM4500-H			Prep Date: 7/26/2022	PrepBy:AOW
PH	7.67		0.1	pH	1	7/26/2022
Total Cyanide		SW9014			Prep Date: 7/19/2022	PrepBy:AOW
CYANIDE, TOTAL	ND		0.015	MG/L	1	7/20/2022
Total Dissolved Solids		SM2540C			Prep Date: 7/19/2022	PrepBy:AOW

Client: Telesto Solutions Inc

Date: 27-Jul-22

Project: 360100 LRM - Knox Pit

Work Order: 2207283

Sample ID: MW-06

Lab ID: 2207283-1

Legal Location:

Matrix: WATER

Collection Date: 7/13/2022 12:30

Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TOTAL DISSOLVED SOLIDS	1500		40	MG/L	1	7/21/2022

ALS -- Fort Collins

SAMPLE SUMMARY REPORT

Client: Telesto Solutions Inc
Project: 360100 LRM - Knox Pit
Sample ID: MW-10
Legal Location:
Collection Date: 7/13/2022 13:32

Date: 27-Jul-22
Work Order: 2207283
Lab ID: 2207283-2
Matrix: WATER
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Alkalinity as Calcium Carbonate		SM2320B			Prep Date: 7/21/2022	PrepBy: AOW
BICARBONATE AS CaCO3	280		20	MG/L	1	7/21/2022
CARBONATE AS CaCO3	ND		20	MG/L	1	7/21/2022
TOTAL ALKALINITY AS CaCO3	280		20	MG/L	1	7/21/2022
Dissolved ICPMS Metals		SW6020			Prep Date: 7/18/2022	PrepBy: ETC
SILVER	ND		1.4	UG/L	10	7/21/2022 16:32
ALUMINUM	ND		100	UG/L	10	7/21/2022 16:32
ARSENIC	ND		2	UG/L	10	7/21/2022 16:32
BORON	ND		150	UG/L	10	7/21/2022 16:32
BARIUM	24		5	UG/L	10	7/21/2022 16:32
BERYLLIUM	ND		0.5	UG/L	10	7/21/2022 16:32
CALCIUM	430000		1000	UG/L	10	7/21/2022 16:32
CADMIUM	ND		2	UG/L	10	7/21/2022 16:32
COBALT	ND		5	UG/L	10	7/21/2022 16:32
CHROMIUM	ND		10	UG/L	10	7/21/2022 16:32
COPPER	ND		20	UG/L	10	7/21/2022 16:32
IRON	ND		100	UG/L	10	7/21/2022 16:32
POTASSIUM	3700		1000	UG/L	10	7/21/2022 16:32
LITHIUM	31		20	UG/L	10	7/21/2022 16:32
MAGNESIUM	25000		100	UG/L	10	7/21/2022 16:32
MANGANESE	ND		10	UG/L	10	7/21/2022 16:32
MOLYBDENUM	2.7		2	UG/L	10	7/21/2022 16:32
SODIUM	22000		1000	UG/L	10	7/21/2022 16:32
NICKEL	ND		20	UG/L	10	7/21/2022 16:32
LEAD	ND		2	UG/L	10	7/21/2022 16:32
ANTIMONY	ND		1	UG/L	10	7/21/2022 16:32
SELENIUM	23		10	UG/L	10	7/21/2022 16:32
THALLIUM	ND		0.15	UG/L	10	7/21/2022 16:32
URANIUM	33		0.1	UG/L	10	7/21/2022 16:32
VANADIUM	ND		5	UG/L	10	7/21/2022 16:32
ZINC	ND		100	UG/L	10	7/21/2022 16:32
Ion Chromatography		EPA300.0			Prep Date: 7/19/2022	PrepBy: AOW
CHLORIDE	22		2	MG/L	10	7/19/2022 13:11
FLUORIDE	ND		2.6	MG/L	10	7/19/2022 13:11
SULFATE	990		10	MG/L	10	7/19/2022 13:11
Dissolved Mercury		SW7470			Prep Date: 7/23/2022	PrepBy: WJS
MERCURY	ND		0.0002	MG/L	1	7/25/2022 11:18
Nitrate/Nitrite as N		EPA353.2			Prep Date: 7/25/2022	PrepBy: AOW
NITRATE/NITRITE AS N	2.7		0.2	MG/L	10	7/25/2022 11:03
pH		SM4500-H			Prep Date: 7/26/2022	PrepBy: AOW
PH	7.51		0.1	pH	1	7/26/2022
Total Cyanide		SW9014			Prep Date: 7/19/2022	PrepBy: AOW
CYANIDE, TOTAL	ND		0.015	MG/L	1	7/20/2022
Total Dissolved Solids		SM2540C			Prep Date: 7/19/2022	PrepBy: AOW

Client: Telesto Solutions Inc

Date: 27-Jul-22

Project: 360100 LRM - Knox Pit

Work Order: 2207283

Sample ID: MW-10

Lab ID: 2207283-2

Legal Location:

Matrix: WATER

Collection Date: 7/13/2022 13:32

Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TOTAL DISSOLVED SOLIDS	1700		40	MG/L	1	7/21/2022

ALS -- Fort Collins

SAMPLE SUMMARY REPORT

Client: Telesto Solutions Inc
Project: 360100 LRM - Knox Pit
Sample ID: MW-13
Legal Location:
Collection Date: 7/13/2022 14:08

Date: 27-Jul-22
Work Order: 2207283
Lab ID: 2207283-3
Matrix: WATER
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Alkalinity as Calcium Carbonate		SM2320B			Prep Date: 7/21/2022	PrepBy:AOW
BICARBONATE AS CaCO3	120		20	MG/L	1	7/21/2022
CARBONATE AS CaCO3	ND		20	MG/L	1	7/21/2022
TOTAL ALKALINITY AS CaCO3	120		20	MG/L	1	7/21/2022
Dissolved ICPMS Metals		SW6020			Prep Date: 7/18/2022	PrepBy:ETC
SILVER	ND		1.4	UG/L	10	7/21/2022 16:35
ALUMINUM	ND		100	UG/L	10	7/21/2022 16:35
ARSENIC	ND		2	UG/L	10	7/21/2022 16:35
BORON	ND		150	UG/L	10	7/21/2022 16:35
BARIUM	35		5	UG/L	10	7/21/2022 16:35
BERYLLIUM	ND		0.5	UG/L	10	7/21/2022 16:35
CALCIUM	50000		1000	UG/L	10	7/21/2022 16:35
CADMIUM	ND		2	UG/L	10	7/21/2022 16:35
COBALT	ND		5	UG/L	10	7/21/2022 16:35
CHROMIUM	ND		10	UG/L	10	7/21/2022 16:35
COPPER	ND		20	UG/L	10	7/21/2022 16:35
IRON	ND		100	UG/L	10	7/21/2022 16:35
POTASSIUM	ND		1000	UG/L	10	7/21/2022 16:35
LITHIUM	ND		20	UG/L	10	7/21/2022 16:35
MAGNESIUM	5700		100	UG/L	10	7/21/2022 16:35
MANGANESE	ND		10	UG/L	10	7/21/2022 16:35
MOLYBDENUM	2.6		2	UG/L	10	7/21/2022 16:35
SODIUM	5000		1000	UG/L	10	7/21/2022 16:35
NICKEL	ND		20	UG/L	10	7/21/2022 16:35
LEAD	ND		2	UG/L	10	7/21/2022 16:35
ANTIMONY	ND		1	UG/L	10	7/21/2022 16:35
SELENIUM	ND		10	UG/L	10	7/21/2022 16:35
THALLIUM	ND		0.15	UG/L	10	7/21/2022 16:35
URANIUM	1.4		0.1	UG/L	10	7/21/2022 16:35
VANADIUM	ND		5	UG/L	10	7/21/2022 16:35
ZINC	ND		100	UG/L	10	7/21/2022 16:35
Ion Chromatography		EPA300.0			Prep Date: 7/19/2022	PrepBy:AOW
CHLORIDE	4		0.2	MG/L	1	7/19/2022 13:17
FLUORIDE	0.28		0.26	MG/L	1	7/19/2022 13:17
SULFATE	30		1	MG/L	1	7/19/2022 13:17
Dissolved Mercury		SW7470			Prep Date: 7/23/2022	PrepBy:WJS
MERCURY	ND		0.0002	MG/L	1	7/25/2022 11:20
Nitrate/Nitrite as N		EPA353.2			Prep Date: 7/25/2022	PrepBy:AOW
NITRATE/NITRITE AS N	0.28		0.2	MG/L	10	7/25/2022 11:06
pH		SM4500-H			Prep Date: 7/26/2022	PrepBy:AOW
PH	8.13		0.1	pH	1	7/26/2022
Total Cyanide		SW9014			Prep Date: 7/19/2022	PrepBy:AOW
CYANIDE, TOTAL	ND		0.015	MG/L	1	7/20/2022
Total Dissolved Solids		SM2540C			Prep Date: 7/19/2022	PrepBy:AOW

Client: Telesto Solutions Inc

Date: 27-Jul-22

Project: 360100 LRM - Knox Pit

Work Order: 2207283

Sample ID: MW-13

Lab ID: 2207283-3

Legal Location:

Matrix: WATER

Collection Date: 7/13/2022 14:08

Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TOTAL DISSOLVED SOLIDS	180		20	MG/L	1	7/21/2022

ALS -- Fort Collins

SAMPLE SUMMARY REPORT

Client: Telesto Solutions Inc
 Project: 360100 LRM - Knox Pit
 Sample ID: MW-12
 Legal Location:
 Collection Date: 7/13/2022 14:32

Date: 27-Jul-22
 Work Order: 2207283
 Lab ID: 2207283-4
 Matrix: WATER
 Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Alkalinity as Calcium Carbonate		SM2320B			Prep Date: 7/21/2022	PrepBy:AOW
BICARBONATE AS CaCO3	120		20	MG/L	1	7/21/2022
CARBONATE AS CaCO3	ND		20	MG/L	1	7/21/2022
TOTAL ALKALINITY AS CaCO3	120		20	MG/L	1	7/21/2022
Dissolved ICPMS Metals		SW6020			Prep Date: 7/18/2022	PrepBy:ETC
SILVER	ND		1.4	UG/L	10	7/21/2022 16:38
ALUMINUM	ND		100	UG/L	10	7/21/2022 16:38
ARSENIC	ND		2	UG/L	10	7/21/2022 16:38
BORON	ND		150	UG/L	10	7/21/2022 16:38
BARIUM	28		5	UG/L	10	7/21/2022 16:38
BERYLLIUM	ND		0.5	UG/L	10	7/21/2022 16:38
CALCIUM	120000		1000	UG/L	10	7/21/2022 16:38
CADMIUM	ND		2	UG/L	10	7/21/2022 16:38
COBALT	ND		5	UG/L	10	7/21/2022 16:38
CHROMIUM	ND		10	UG/L	10	7/21/2022 16:38
COPPER	ND		20	UG/L	10	7/21/2022 16:38
IRON	ND		100	UG/L	10	7/21/2022 16:38
POTASSIUM	1300		1000	UG/L	10	7/21/2022 16:38
LITHIUM	ND		20	UG/L	10	7/21/2022 16:38
MAGNESIUM	9500		100	UG/L	10	7/21/2022 16:38
MANGANESE	ND		10	UG/L	10	7/21/2022 16:38
MOLYBDENUM	4.1		2	UG/L	10	7/21/2022 16:38
SODIUM	13000		1000	UG/L	10	7/21/2022 16:38
NICKEL	ND		20	UG/L	10	7/21/2022 16:38
LEAD	ND		2	UG/L	10	7/21/2022 16:38
ANTIMONY	ND		1	UG/L	10	7/21/2022 16:38
SELENIUM	ND		10	UG/L	10	7/21/2022 16:38
THALLIUM	ND		0.15	UG/L	10	7/21/2022 16:38
URANIUM	2.8		0.1	UG/L	10	7/21/2022 16:38
VANADIUM	ND		5	UG/L	10	7/21/2022 16:38
ZINC	ND		100	UG/L	10	7/21/2022 16:38
Ion Chromatography		EPA300.0			Prep Date: 7/19/2022	PrepBy:AOW
CHLORIDE	11		0.2	MG/L	1	7/19/2022 13:23
FLUORIDE	0.65		0.26	MG/L	1	7/19/2022 13:23
SULFATE	210		5	MG/L	5	7/20/2022 13:18
Dissolved Mercury		SW7470			Prep Date: 7/23/2022	PrepBy:WJS
MERCURY	ND		0.0002	MG/L	1	7/25/2022 11:22
Nitrate/Nitrite as N		EPA353.2			Prep Date: 7/25/2022	PrepBy:AOW
NITRATE/NITRITE AS N	ND		0.2	MG/L	10	7/25/2022 11:07
pH		SM4500-H			Prep Date: 7/26/2022	PrepBy:AOW
PH	7.87		0.1	pH	1	7/26/2022
Total Cyanide		SW9014			Prep Date: 7/19/2022	PrepBy:AOW
CYANIDE, TOTAL	ND		0.015	MG/L	1	7/20/2022
Total Dissolved Solids		SM2540C			Prep Date: 7/19/2022	PrepBy:AOW

Client: Telesto Solutions Inc

Date: 27-Jul-22

Project: 360100 LRM - Knox Pit

Work Order: 2207283

Sample ID: MW-12

Lab ID: 2207283-4

Legal Location:

Matrix: WATER

Collection Date: 7/13/2022 14:32

Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TOTAL DISSOLVED SOLIDS	490		20	MG/L	1	7/21/2022

ALS -- Fort Collins

SAMPLE SUMMARY REPORT

Client: Telesto Solutions Inc
Project: 360100 LRM - Knox Pit
Sample ID: MW-19
Legal Location:
Collection Date: 7/13/2022 15:15

Date: 27-Jul-22
Work Order: 2207283
Lab ID: 2207283-5
Matrix: WATER
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Alkalinity as Calcium Carbonate						
		SM2320B			Prep Date: 7/21/2022	PrepBy:AOW
BICARBONATE AS CaCO3	100		20	MG/L	1	7/21/2022
CARBONATE AS CaCO3	ND		20	MG/L	1	7/21/2022
TOTAL ALKALINITY AS CaCO3	100		20	MG/L	1	7/21/2022
Dissolved ICPMS Metals						
		SW6020			Prep Date: 7/18/2022	PrepBy:ETC
SILVER	ND		1.4	UG/L	10	7/21/2022 16:41
ALUMINUM	ND		100	UG/L	10	7/21/2022 16:41
ARSENIC	ND		2	UG/L	10	7/21/2022 16:41
BORON	ND		150	UG/L	10	7/21/2022 16:41
BARIUM	27		5	UG/L	10	7/21/2022 16:41
BERYLLIUM	ND		0.5	UG/L	10	7/21/2022 16:41
CALCIUM	39000		1000	UG/L	10	7/21/2022 16:41
CADMIUM	ND		2	UG/L	10	7/21/2022 16:41
COBALT	ND		5	UG/L	10	7/21/2022 16:41
CHROMIUM	ND		10	UG/L	10	7/21/2022 16:41
COPPER	ND		20	UG/L	10	7/21/2022 16:41
IRON	ND		100	UG/L	10	7/21/2022 16:41
POTASSIUM	ND		1000	UG/L	10	7/21/2022 16:41
LITHIUM	ND		20	UG/L	10	7/21/2022 16:41
MAGNESIUM	4500		100	UG/L	10	7/21/2022 16:41
MANGANESE	ND		10	UG/L	10	7/21/2022 16:41
MOLYBDENUM	4.3		2	UG/L	10	7/21/2022 16:41
SODIUM	4900		1000	UG/L	10	7/21/2022 16:41
NICKEL	ND		20	UG/L	10	7/21/2022 16:41
LEAD	ND		2	UG/L	10	7/21/2022 16:41
ANTIMONY	ND		1	UG/L	10	7/21/2022 16:41
SELENIUM	ND		10	UG/L	10	7/21/2022 16:41
THALLIUM	ND		0.15	UG/L	10	7/21/2022 16:41
URANIUM	0.79		0.1	UG/L	10	7/21/2022 16:41
VANADIUM	ND		5	UG/L	10	7/21/2022 16:41
ZINC	ND		100	UG/L	10	7/21/2022 16:41
Ion Chromatography						
		EPA300.0			Prep Date: 7/19/2022	PrepBy:AOW
CHLORIDE	1.5		0.2	MG/L	1	7/19/2022 13:29
FLUORIDE	0.55		0.26	MG/L	1	7/19/2022 13:29
SULFATE	18		1	MG/L	1	7/19/2022 13:29
Dissolved Mercury						
		SW7470			Prep Date: 7/23/2022	PrepBy:WJS
MERCURY	ND		0.0002	MG/L	1	7/25/2022 11:24
Nitrate/Nitrite as N						
		EPA353.2			Prep Date: 7/25/2022	PrepBy:AOW
NITRATE/NITRITE AS N	ND		0.2	MG/L	10	7/25/2022 11:08
pH						
		SM4500-H			Prep Date: 7/26/2022	PrepBy:AOW
PH	8.11		0.1	pH	1	7/26/2022
Total Cyanide						
		SW9014			Prep Date: 7/19/2022	PrepBy:AOW
CYANIDE, TOTAL	ND		0.015	MG/L	1	7/20/2022
Total Dissolved Solids						
		SM2540C			Prep Date: 7/19/2022	PrepBy:AOW

Client: Telesto Solutions Inc

Date: 27-Jul-22

Project: 360100 LRM - Knox Pit

Work Order: 2207283

Sample ID: MW-19

Lab ID: 2207283-5

Legal Location:

Matrix: WATER

Collection Date: 7/13/2022 15:15

Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TOTAL DISSOLVED SOLIDS	150		20	MG/L	1	7/21/2022

ALS -- Fort Collins

SAMPLE SUMMARY REPORT

Client: Telesto Solutions Inc
Project: 360100 LRM - Knox Pit
Sample ID: 02-MW-19
Legal Location:
Collection Date: 7/13/2022 15:23

Date: 27-Jul-22
Work Order: 2207283
Lab ID: 2207283-6
Matrix: WATER
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Alkalinity as Calcium Carbonate						
		SM2320B			Prep Date: 7/21/2022	PrepBy:AOW
BICARBONATE AS CaCO3	100		20	MG/L	1	7/21/2022
CARBONATE AS CaCO3	ND		20	MG/L	1	7/21/2022
TOTAL ALKALINITY AS CaCO3	100		20	MG/L	1	7/21/2022
Dissolved ICPMS Metals						
		SW6020			Prep Date: 7/18/2022	PrepBy:ETC
SILVER	ND		1.4	UG/L	10	7/21/2022 16:44
ALUMINUM	ND		100	UG/L	10	7/21/2022 16:44
ARSENIC	ND		2	UG/L	10	7/21/2022 16:44
BORON	ND		150	UG/L	10	7/21/2022 16:44
BARIUM	25		5	UG/L	10	7/21/2022 16:44
BERYLLIUM	ND		0.5	UG/L	10	7/21/2022 16:44
CALCIUM	38000		1000	UG/L	10	7/21/2022 16:44
CADMIUM	ND		2	UG/L	10	7/21/2022 16:44
COBALT	ND		5	UG/L	10	7/21/2022 16:44
CHROMIUM	ND		10	UG/L	10	7/21/2022 16:44
COPPER	ND		20	UG/L	10	7/21/2022 16:44
IRON	ND		100	UG/L	10	7/21/2022 16:44
POTASSIUM	ND		1000	UG/L	10	7/21/2022 16:44
LITHIUM	ND		20	UG/L	10	7/21/2022 16:44
MAGNESIUM	4300		100	UG/L	10	7/21/2022 16:44
MANGANESE	ND		10	UG/L	10	7/21/2022 16:44
MOLYBDENUM	4.1		2	UG/L	10	7/21/2022 16:44
SODIUM	4800		1000	UG/L	10	7/21/2022 16:44
NICKEL	ND		20	UG/L	10	7/21/2022 16:44
LEAD	ND		2	UG/L	10	7/21/2022 16:44
ANTIMONY	ND		1	UG/L	10	7/21/2022 16:44
SELENIUM	ND		10	UG/L	10	7/21/2022 16:44
THALLIUM	ND		0.15	UG/L	10	7/21/2022 16:44
URANIUM	0.81		0.1	UG/L	10	7/21/2022 16:44
VANADIUM	ND		5	UG/L	10	7/21/2022 16:44
ZINC	ND		100	UG/L	10	7/21/2022 16:44
Ion Chromatography						
		EPA300.0			Prep Date: 7/19/2022	PrepBy:AOW
CHLORIDE	1.5		0.2	MG/L	1	7/19/2022 13:35
FLUORIDE	0.54		0.26	MG/L	1	7/19/2022 13:35
SULFATE	18		1	MG/L	1	7/19/2022 13:35
Dissolved Mercury						
		SW7470			Prep Date: 7/23/2022	PrepBy:WJS
MERCURY	ND		0.0002	MG/L	1	7/25/2022 11:26
Nitrate/Nitrite as N						
		EPA353.2			Prep Date: 7/25/2022	PrepBy:AOW
NITRATE/NITRITE AS N	ND		0.2	MG/L	10	7/25/2022 11:09
pH						
		SM4500-H			Prep Date: 7/26/2022	PrepBy:AOW
PH	8.13		0.1	pH	1	7/26/2022
Total Cyanide						
		SW9014			Prep Date: 7/19/2022	PrepBy:AOW
CYANIDE, TOTAL	ND		0.015	MG/L	1	7/20/2022
Total Dissolved Solids						
		SM2540C			Prep Date: 7/19/2022	PrepBy:AOW

Client: Telesto Solutions Inc

Date: 27-Jul-22

Project: 360100 LRM - Knox Pit

Work Order: 2207283

Sample ID: 02-MW-19

Lab ID: 2207283-6

Legal Location:

Matrix: WATER

Collection Date: 7/13/2022 15:23

Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TOTAL DISSOLVED SOLIDS	140		20	MG/L	1	7/21/2022

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SAMPLE SUMMARY REPORT

Client: Telesto Solutions Inc
Project: 360100 LRM - Knox Pit
Sample ID: 03-Blank
Legal Location:
Collection Date: 7/13/2022 15:33

Date: 27-Jul-22
Work Order: 2207283
Lab ID: 2207283-7
Matrix: WATER
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Alkalinity as Calcium Carbonate						
		SM2320B			Prep Date: 7/21/2022	PrepBy:AOW
BICARBONATE AS CaCO3	ND		5	MG/L	1	7/21/2022
CARBONATE AS CaCO3	ND		5	MG/L	1	7/21/2022
TOTAL ALKALINITY AS CaCO3	ND		5	MG/L	1	7/21/2022
Dissolved ICPMS Metals						
		SW6020			Prep Date: 7/18/2022	PrepBy:ETC
SILVER	ND		1.4	UG/L	10	7/21/2022 16:47
ALUMINUM	ND		100	UG/L	10	7/21/2022 16:47
ARSENIC	ND		2	UG/L	10	7/21/2022 16:47
BORON	ND		150	UG/L	10	7/21/2022 16:47
BARIUM	ND		5	UG/L	10	7/21/2022 16:47
BERYLLIUM	ND		0.5	UG/L	10	7/21/2022 16:47
CALCIUM	ND		1000	UG/L	10	7/21/2022 16:47
CADMIUM	ND		2	UG/L	10	7/21/2022 16:47
COBALT	ND		5	UG/L	10	7/21/2022 16:47
CHROMIUM	ND		10	UG/L	10	7/21/2022 16:47
COPPER	ND		20	UG/L	10	7/21/2022 16:47
IRON	ND		100	UG/L	10	7/21/2022 16:47
POTASSIUM	ND		1000	UG/L	10	7/21/2022 16:47
LITHIUM	ND		20	UG/L	10	7/21/2022 16:47
MAGNESIUM	ND		100	UG/L	10	7/21/2022 16:47
MANGANESE	ND		10	UG/L	10	7/21/2022 16:47
MOLYBDENUM	ND		2	UG/L	10	7/21/2022 16:47
SODIUM	ND		1000	UG/L	10	7/21/2022 16:47
NICKEL	ND		20	UG/L	10	7/21/2022 16:47
LEAD	ND		2	UG/L	10	7/21/2022 16:47
ANTIMONY	ND		1	UG/L	10	7/21/2022 16:47
SELENIUM	ND		10	UG/L	10	7/21/2022 16:47
THALLIUM	ND		0.15	UG/L	10	7/21/2022 16:47
URANIUM	ND		0.1	UG/L	10	7/21/2022 16:47
VANADIUM	ND		5	UG/L	10	7/21/2022 16:47
ZINC	ND		100	UG/L	10	7/21/2022 16:47
Ion Chromatography						
		EPA300.0			Prep Date: 7/19/2022	PrepBy:AOW
CHLORIDE	ND		0.2	MG/L	1	7/19/2022 13:41
FLUORIDE	ND		0.26	MG/L	1	7/19/2022 13:41
SULFATE	ND		1	MG/L	1	7/19/2022 13:41
Dissolved Mercury						
		SW7470			Prep Date: 7/23/2022	PrepBy:WJS
MERCURY	ND		0.0002	MG/L	1	7/25/2022 11:29
Nitrate/Nitrite as N						
		EPA353.2			Prep Date: 7/25/2022	PrepBy:AOW
NITRATE/NITRITE AS N	ND		0.2	MG/L	10	7/25/2022 11:09
pH						
		SM4500-H			Prep Date: 7/26/2022	PrepBy:AOW
PH	6.6		0.1	pH	1	7/26/2022
Total Cyanide						
		SW9014			Prep Date: 7/19/2022	PrepBy:AOW
CYANIDE, TOTAL	ND		0.015	MG/L	1	7/20/2022
Total Dissolved Solids						
		SM2540C			Prep Date: 7/19/2022	PrepBy:AOW

Client: Telesto Solutions Inc
Project: 360100 LRM - Knox Pit
Sample ID: 03-Blank
Legal Location:
Collection Date: 7/13/2022 15:33

Date: 27-Jul-22
Work Order: 2207283
Lab ID: 2207283-7
Matrix: WATER
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TOTAL DISSOLVED SOLIDS	ND		20	MG/L	1	7/21/2022

Explanation of Qualifiers

Radiochemistry:

- "Report Limit" is the MDC
 U or ND - Result is less than the sample specific MDC.
 Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.
 Y2 - Chemical Yield outside default limits.
 W - DER is greater than Warning Limit of 1.42
 * - Aliquot Basis is 'As Received' while the Report Basis is 'Dry Weight'.
 # - Aliquot Basis is 'Dry Weight' while the Report Basis is 'As Received'.
 G - Sample density differs by more than 15% of LCS density.
 D - DER is greater than Control Limit
 M - Requested MDC not met.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
 L - LCS Recovery below lower control limit.
 H - LCS Recovery above upper control limit.
 P - LCS, Matrix Spike Recovery within control limits.
 N - Matrix Spike Recovery outside control limits
 NC - Not Calculated for duplicate results less than 5 times MDC
 B - Analyte concentration greater than MDC.
 B3 - Analyte concentration greater than MDC but less than Requested MDC.

Inorganics:

B - Result is less than the requested reporting limit but greater than the instrument method detection limit (MDL).
 U or ND - Indicates that the compound was analyzed for but not detected.
 E - The reported value is estimated because of the presence of interference. An explanatory note may be included in the narrative.
 M - Duplicate injection precision was not met.
 N - Spiked sample recovery not within control limits. A post spike is analyzed for all ICP analyses when the matrix spike and or spike duplicate fail and the native sample concentration is less than four times the spike added concentration.
 Z - Spiked recovery not within control limits. An explanatory note may be included in the narrative.
 * - Duplicate analysis (relative percent difference) not within control limits.
 S - SAR value is estimated as one or more analytes used in the calculation were not detected above the detection limit.

Organics:

U or ND - Indicates that the compound was analyzed for but not detected.
 B - Analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user.
 E - Analyte concentration exceeds the upper level of the calibration range.
 J - Estimated value. The result is less than the reporting limit but greater than the instrument method detection limit (MDL).
 A - A tentatively identified compound is a suspected aldol-condensation product.
 X - The analyte was diluted below an accurate quantitation level.
 * - The spike recovery is equal to or outside the control criteria used.
 + - The relative percent difference (RPD) equals or exceeds the control criteria.
 G - A pattern resembling gasoline was detected in this sample.
 D - A pattern resembling diesel was detected in this sample.
 M - A pattern resembling motor oil was detected in this sample.
 C - A pattern resembling crude oil was detected in this sample.
 4 - A pattern resembling JP-4 was detected in this sample.
 5 - A pattern resembling JP-5 was detected in this sample.
 H - Indicates that the fuel pattern was in the heavier end of the retention time window for the analyte of interest.
 L - Indicates that the fuel pattern was in the lighter end of the retention time window for the analyte of interest.
 Z - This flag indicates that a significant fraction of the reported result did not resemble the patterns of any of the following petroleum hydrocarbon products:
 - gasoline
 - JP-8
 - diesel
 - mineral spirits
 - motor oil
 - Stoddard solvent
 - bunker C

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Date: 7/27/2022 3:39:5

Client: Telesto Solutions Inc
Work Order: 2207283
Project: 360100 LRM - Knox Pit

QC BATCH REPORT

Batch ID: **HG220723-2-1** Instrument ID: **CETAC7600** Method: **SW7470**

LCS	Sample ID: HG220723-2				Units: MG/L		Analysis Date: 7/25/2022 11:06				
Client ID:	Run ID: HG220725-1A3				Prep Date: 7/23/2022			DF: 1			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
MERCURY	0.00098	0.0002	0.001		98	80-120				20	

LCSD	Sample ID: HG220723-2			Units: MG/L			Analysis Date: 7/25/2022 11:08				
Client ID:	Run ID: HG220725-1A3						Prep Date: 7/23/2022		DF: 1		
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
MERCURY	0.00097	0.0002	0.001		97	80-120		0.00098	1	20	

MB	Sample ID: HG220723-2	Units: MG/L	Analysis Date: 7/25/2022 11:02
Client ID:	Run ID: HG220725-1A3	Prep Date: 7/23/2022	DF: 1
Analyte	Result	ReportLimit	Qual
MERCURY	ND	0.0002	

The following samples were analyzed in this batch:

2207283-1	2207283-2	2207283-3
2207283-4	2207283-5	2207283-6
2207283-7		

Client: Telesto Solutions Inc
 Work Order: 2207283
 Project: 360100 LRM - Knox Pit

QC BATCH REPORT

Batch ID: IP220718-4-1 Instrument ID: ICPMS2 Method: SW6020

LCS		Sample ID: IM220718-4		Units: UG/L		Analysis Date: 7/21/2022 16:17					
Client ID:		Run ID: IM220721-10A7		Prep Date: 7/18/2022		DF: 10					
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
ALUMINUM	4560	100	5000		91	80-120				20	
ANTIMONY	29.2	1	30		97	80-120				20	
ARSENIC	94.5	2	100		95	80-120				20	
BARIUM	89.7	5	100		90	80-120				20	
BERYLLIUM	49.6	0.5	50		99	80-120				20	
BORON	2060	150	2000		103	80-120				20	
CADMIUM	28.4	2	30		95	80-120				20	
CALCIUM	9540	1000	10000		95	80-120				20	
CHROMIUM	461	10	500		92	80-120				20	
COBALT	98.7	5	100		99	80-120				20	
COPPER	1020	20	1000		102	80-120				20	
IRON	4620	100	5000		92	80-120				20	
LEAD	48.4	2	50		97	80-120				20	
LITHIUM	985	20	1000		99	80-120				20	
MAGNESIUM	9150	100	10000		92	80-120				20	
MANGANESE	96.1	10	100		96	80-120				20	
MOLYBDENUM	94.9	2	100		95	80-120				20	
NICKEL	463	20	500		93	80-120				20	
POTASSIUM	4620	1000	5000		92	80-120				20	
SELENIUM	101	10	100		101	80-120				20	
SILVER	9.65	1.4	10		96	80-120				20	
SODIUM	9390	1000	10000		94	80-120				20	
THALLIUM	1.89	0.15	2		94	80-120				20	
URANIUM	9.45	0.1	10		94	80-120				20	
VANADIUM	92.5	5	100		93	80-120				20	
ZINC	1950	100	2000		98	80-120				20	

Client: Telesto Solutions Inc
Work Order: 2207283
Project: 360100 LRM - Knox Pit

QC BATCH REPORT

Batch ID: **IP220718-4-1** Instrument ID: **ICPMS2** Method: **SW6020**

LCSD Sample ID: **IM220718-4** Units: **UG/L** Analysis Date: **7/21/2022 16:23**

Client ID: Run ID: **IM220721-10A7** Prep Date: **7/18/2022** DF: **10**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
ALUMINUM	4370	100	5000		87	80-120		4560	4	20	
ANTIMONY	28.8	1	30		96	80-120		29.2	1	20	
ARSENIC	91.4	2	100		91	80-120		94.5	3	20	
BARIUM	85.8	5	100		86	80-120		89.7	4	20	
BERYLLIUM	48.7	0.5	50		97	80-120		49.6	2	20	
BORON	2030	150	2000		101	80-120		2060	2	20	
CADMIUM	27.6	2	30		92	80-120		28.4	3	20	
CALCIUM	8740	1000	10000		87	80-120		9540	9	20	
CHROMIUM	448	10	500		90	80-120		461	3	20	
COBALT	95.2	5	100		95	80-120		98.7	4	20	
COPPER	986	20	1000		99	80-120		1020	4	20	
IRON	4450	100	5000		89	80-120		4620	4	20	
LEAD	47.7	2	50		95	80-120		48.4	1	20	
LITHIUM	970	20	1000		97	80-120		985	2	20	
MAGNESIUM	8690	100	10000		87	80-120		9150	5	20	
MANGANESE	90.3	10	100		90	80-120		96.1	6	20	
MOLYBDENUM	93.2	2	100		93	80-120		94.9	2	20	
NICKEL	445	20	500		89	80-120		463	4	20	
POTASSIUM	4460	1000	5000		89	80-120		4620	4	20	
SELENIUM	95.7	10	100		96	80-120		101	5	20	
SILVER	9.82	1.4	10		98	80-120		9.65	2	20	
SODIUM	8930	1000	10000		89	80-120		9390	5	20	
THALLIUM	1.8	0.15	2		90	80-120		1.89	5	20	
URANIUM	9.42	0.1	10		94	80-120		9.45	0	20	
VANADIUM	88.6	5	100		89	80-120		92.5	4	20	
ZINC	1880	100	2000		94	80-120		1950	4	20	

Client: Telesto Solutions Inc
Work Order: 2207283
Project: 360100 LRM - Knox Pit

QC BATCH REPORT

Batch ID: **IP220718-4-1** Instrument ID: **ICPMS2** Method: **SW6020**

MB Sample ID: **IP220718-4** Units: **UG/L** Analysis Date: **7/21/2022 16:14**
Client ID: Run ID: **IM220721-10A7** Prep Date: **7/18/2022** DF: **10**

Analyte	Result	ReportLimit	Qual
ALUMINUM	ND	100	
ANTIMONY	ND	1	
ARSENIC	ND	2	
BARIUM	ND	5	
BERYLLIUM	ND	0.5	
BORON	ND	150	
CADMIUM	ND	2	
CALCIUM	ND	1000	
CHROMIUM	ND	10	
COBALT	ND	5	
COPPER	ND	20	
IRON	ND	100	
LEAD	ND	2	
LITHIUM	ND	20	
MAGNESIUM	ND	100	
MANGANESE	ND	10	
MOLYBDENUM	ND	2	
NICKEL	ND	20	
POTASSIUM	ND	1000	
SELENIUM	ND	10	
SILVER	ND	1.4	
SODIUM	ND	1000	
THALLIUM	ND	0.15	
URANIUM	ND	0.1	
VANADIUM	ND	5	
ZINC	ND	100	

The following samples were analyzed in this batch:

2207283-1	2207283-2	2207283-3
2207283-4	2207283-5	2207283-6
2207283-7		

Client: Telesto Solutions Inc
Work Order: 2207283
Project: 360100 LRM - Knox Pit

QC BATCH REPORT

Batch ID: **AK220721-2-1** Instrument ID: **NONE** Method: **SM2320B**

DUP	Sample ID: 2207283-6				Units: MG/L		Analysis Date: 7/21/2022				
Client ID: 02-MW-19			Run ID: AK220721-2A1			Prep Date: 7/21/2022			DF: 1		
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
BICARBONATE AS CaCO3	102	20						100	1	15	
CARBONATE AS CaCO3	ND	20						20		15	
TOTAL ALKALINITY AS CaCO3	102	20						100	1	15	

LCS	Sample ID: AK220721-2				Units: MG/L		Analysis Date: 7/21/2022				
Client ID:	Run ID: AK220721-2A1				Prep Date: 7/21/2022			DF: 1			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
TOTAL ALKALINITY AS CaCO3	101	5	100		101	85-115				15	

MB	Sample ID: AK220721-2		Units: MG/L		Analysis Date: 7/21/2022	
Client ID:		Run ID: AK220721-2A1		Prep Date: 7/21/2022		DF: 1
Analyte		Result	ReportLimit	Qual		
BICARBONATE AS CaCO3		ND	5			
CARBONATE AS CaCO3		ND	5			
TOTAL ALKALINITY AS CaCO3		ND	5			

The following samples were analyzed in this batch:

2207283-1	2207283-2	2207283-3
2207283-4	2207283-5	2207283-6
2207283-7		

Client: Telesto Solutions Inc
Work Order: 2207283
Project: 360100 LRM - Knox Pit

QC BATCH REPORT

Batch ID: **CN220719-1-1** Instrument ID: **Spec** Method: **SW9014**

LCS	Sample ID: CN220719-1			Units: MG/L			Analysis Date: 7/20/2022				
Client ID:		Run ID: CN220720-1A4			Prep Date: 7/19/2022			DF: 1			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
CYANIDE, TOTAL	0.187	0.015	0.2		94	85-115				30	

LCSD	Sample ID: CN220719-1			Units: MG/L			Analysis Date: 7/20/2022				
Client ID:	Run ID: CN220720-1A4			Prep Date: 7/19/2022			DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
CYANIDE, TOTAL	0.189	0.015	0.2		94	85-115		0.187	1	30	

MB		Sample ID: CN220719-1		Units: MG/L		Analysis Date: 7/20/2022	
Client ID:		Run ID: CN220720-1A4		Prep Date: 7/19/2022		DF: 1	
Analyte		Result	ReportLimit				
CYANIDE, TOTAL		ND	0.015				

The following samples were analyzed in this batch:

2207283-1	2207283-2	2207283-3
2207283-4	2207283-5	2207283-6
2207283-7		

Client: Telesto Solutions Inc
Work Order: 2207283
Project: 360100 LRM - Knox Pit

QC BATCH REPORT

Batch ID: IC220719-1-1 Instrument ID: IC3 Method: EPA300.0

LCS	Sample ID: IC220719-1				Units: MG/L		Analysis Date: 7/19/2022 15:12				
Client ID:	Run ID: IC220719-1A1				Prep Date: 7/19/2022			DF: 1			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
FLUORIDE	5.04	0.258	5		101	90-110				15	
CHLORIDE	10.1	0.2	10		101	90-110				15	
SULFATE	50.6	1	50		101	90-110				15	

LCSD	Sample ID: IC220719-1			Units: MG/L			Analysis Date: 7/19/2022 11:34				
Client ID:	Run ID: IC220719-1A1						Prep Date: 7/19/2022		DF: 1		
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
FLUORIDE	4.97	0.258	5		99	90-110		5.04	1	15	
CHLORIDE	9.97	0.2	10		100	90-110		10.1	2	15	
SULFATE	48.4	1	50		97	90-110		50.6	4	15	

MB	Sample ID: IC220719-1	Units: MG/L	Analysis Date: 7/19/2022 10:27
Client ID:	Run ID: IC220719-1A1	Prep Date: 7/19/2022	DF: 1
Analyte	Result	ReportLimit	Qual
FLUORIDE	ND	0.26	
CHLORIDE	ND	0.2	
SULFATE	ND	1	

MS	Sample ID: 2207283-7				Units: MG/L		Analysis Date: 7/19/2022 13:47				
Client ID: 03-Blank			Run ID: IC220719-1A1			Prep Date: 7/19/2022			DF: 1		
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
FLUORIDE	2.18	0.258	2	0.26	109	85-115				15	
CHLORIDE	5.38	0.2	5	0.2	108	85-115				15	
SULFATE	20.7	1	20	1	104	85-115				15	

The following samples were analyzed in this batch:

2207283-1	2207283-2	2207283-3
2207283-4	2207283-5	2207283-6
2207283-7		

Client: Telesto Solutions Inc
Work Order: 2207283
Project: 360100 LRM - Knox Pit

QC BATCH REPORT

Batch ID: **NN220725-1-1** Instrument ID: **Lachat** Method: **EPA353.2**

LCS		Sample ID: NN220725-1				Units: MG/L		Analysis Date: 7/25/2022 10:47				
Client ID:		Run ID: NN220725-1A1				Prep Date: 7/25/2022		DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual	
NITRATE/NITRITE AS N	0.513	0.02	0.5		103	90-110				20		

LCSD		Sample ID: NN220725-1				Units: MG/L		Analysis Date: 7/25/2022 10:48				
Client ID:		Run ID: NN220725-1A1				Prep Date: 7/25/2022		DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual	
NITRATE/NITRITE AS N	0.513	0.02	0.5		103	90-110		0.513	0	20		

MB		Sample ID: NN220725-1				Units: MG/L		Analysis Date: 7/25/2022 10:49	
Client ID:		Run ID: NN220725-1A1				Prep Date: 7/25/2022		DF: 1	
Analyte		Result	ReportLimit		Qual				
NITRATE/NITRITE AS N		ND	0.02						

MS		Sample ID: 2207283-7				Units: MG/L		Analysis Date: 7/25/2022 11:10				
Client ID: 03-Blank		Run ID: NN220725-1A1				Prep Date: 7/25/2022		DF: 10				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual	
NITRATE/NITRITE AS N	4.73	0.2	5	0.2	95	90-110				20		

The following samples were analyzed in this batch:

2207283-1	2207283-2	2207283-3
2207283-4	2207283-5	2207283-6
2207283-7		

Client: Telesto Solutions Inc
Work Order: 2207283
Project: 360100 LRM - Knox Pit

QC BATCH REPORT

Batch ID: **pH220726-1-1** Instrument ID: **pH-2** Method: **SM4500-H**

DUP Sample ID: **2207283-4** Units: **pH** Analysis Date: **7/26/2022**
Client ID: **MW-12** Run ID: **pH220726-1a1** Prep Date: **7/26/2022** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
PH	7.87	0.1						7.87			

The following samples were analyzed in this batch:

2207283-1	2207283-2	2207283-3
2207283-4	2207283-5	2207283-6
2207283-7		

Client: Telesto Solutions Inc
Work Order: 2207283
Project: 360100 LRM - Knox Pit

QC BATCH REPORT

Batch ID: **TD220719-1-1** Instrument ID: **Balance** Method: **SM2540C**

LCS	Sample ID: TD220719-1			Units: MG/L			Analysis Date: 7/21/2022				
Client ID:		Run ID: TD220721-1A1			Prep Date: 7/19/2022			DF: 1			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
TOTAL DISSOLVED SOLIDS	386	20	400		96	85-115				14	

LCSD		Sample ID: TD220719-1			Units: MG/L		Analysis Date: 7/21/2022				
Client ID:		Run ID: TD220721-1A1			Prep Date: 7/19/2022			DF: 1			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
TOTAL DISSOLVED SOLIDS	406	20	400		101	85-115		386	5	14	

MB		Sample ID: TD220719-1		Units: MG/L		Analysis Date: 7/21/2022	
Client ID:		Run ID: TD220721-1A1		Prep Date: 7/19/2022		DF: 1	
Analyte		Result	ReportLimit				
TOTAL DISSOLVED SOLIDS		ND	20				

The following samples were analyzed in this batch:

2207283-1	2207283-2	2207283-3
2207283-4	2207283-5	2207283-6
2207283-7		



10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
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December 11, 2022

Tim Gerken
Telesto Solutions Inc
750 14th Street
Loveland, CO 80537

Work Order: **HS22111616**

Laboratory Results for: **LRM-Knox Pit**

Dear Tim Gerken,

ALS Environmental received 11 sample(s) on Nov 30, 2022 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: JUMOKE.LAWAL
Tyler Monroe

Client: Telesto Solutions Inc
Project: LRM-Knox Pit
Work Order: HS22111616

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS22111616-01	MW-06 RAW	Water		28-Nov-2022 11:55	30-Nov-2022 09:45	☐
HS22111616-02	MW-06	Water		28-Nov-2022 11:55	30-Nov-2022 09:45	☐
HS22111616-03	MW-13 RAW	Water		28-Nov-2022 14:20	30-Nov-2022 09:45	☐
HS22111616-04	MW-13	Water		28-Nov-2022 14:20	30-Nov-2022 09:45	☐
HS22111616-05	MW-12 RAW	Water		28-Nov-2022 15:05	30-Nov-2022 09:45	☐
HS22111616-06	MW-12	Water		28-Nov-2022 15:05	30-Nov-2022 09:45	☐
HS22111616-07	02-MW-12 RAW	Water		28-Nov-2022 15:10	30-Nov-2022 09:45	☐
HS22111616-08	02-MW-12	Water		28-Nov-2022 15:10	30-Nov-2022 09:45	☐
HS22111616-09	MW-19 RAW	Water		28-Nov-2022 15:37	30-Nov-2022 09:45	☐
HS22111616-10	MW-19	Water		28-Nov-2022 15:37	30-Nov-2022 09:45	☐
HS22111616-11	03-Blank	Water		28-Nov-2022 15:45	30-Nov-2022 09:45	☐

Client: Telesto Solutions Inc
Project: LRM-Knox Pit
Work Order: HS22111616

CASE NARRATIVE

Work Order Comments

- Sample received outside method holding time for pH. pH is an immediate test. Sample results are flagged with an "H" qualifier.
The temperature at the time of pH is reported. Please note that all pH results are already normalized to a temperature of 25 °C.

Metals by Method SW7470A**Batch ID: 186924**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Metals by Method SW6020A**Batch ID: 186828****Sample ID: HS22111003-02MS**

- MS and MSD are for an unrelated sample

Sample ID: HS22111003-02PDS

- PDS is for an unrelated sample

WetChemistry by Method SM2320B**Batch ID: R423178**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method E300**Batch ID: R423129****Sample ID: 02-MW-12 (HS22111616-08)**

- The reporting limit is elevated due to dilution for high concentrations of non-target analytes. (Nitrate/Nitrite (as N), Nitrogen, Nitrate (As N))

Sample ID: HS22111160-01MS

- MS and MSD are for an unrelated sample (Nitrate/Nitrite (as N))

Batch ID: R423674**Sample ID: MW-06 RAW (HS22111616-01MS)**

- The MS and/or MSD recovery was outside of the control limits; however, the result in the parent sample is greater than 4x the spike amount. (Sulfate)

Sample ID: MW-13 RAW (HS22111616-03MS)

- The MS and/or MSD recovery was outside of the control limits; however, the result in the parent sample is greater than 4x the spike amount. (Sulfate)

WetChemistry by Method M2540C**Batch ID: R423067**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Client: Telesto Solutions Inc
Project: LRM-Knox Pit
Work Order: HS22111616

CASE NARRATIVE

WetChemistry by Method SM4500H+ B

Batch ID: R422946

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SW9014

Batch ID: 187133

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.
-

Client: Telesto Solutions Inc
 Project: LRM-Knox Pit
 Sample ID: MW-06 RAW
 Collection Date: 28-Nov-2022 11:55

ANALYTICAL REPORT

WorkOrder:HS22111616
 Lab ID:HS22111616-01
 Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0, REV 2.1, 1993			Method:E300			Analyst: TH
Chloride	7.76		0.500	mg/L	1	10-Dec-2022 08:33
Fluoride	0.610		0.100	mg/L	1	10-Dec-2022 08:33
Sulfate	691		10.0	mg/L	20	10-Dec-2022 08:49
TOTAL DISSOLVED SOLIDS BY SM2540C-2011			Method:M2540C			Analyst: CWG
Total Dissolved Solids (Residue, Filterable)	1,180		10.0	mg/L	1	01-Dec-2022 16:53
ALKALINITY BY SM 2320B-2011			Method:SM2320B			Analyst: JAC
Alkalinity, Bicarbonate (As CaCO ₃)	270		5.00	mg/L	1	05-Dec-2022 11:17
Alkalinity, Carbonate (As CaCO ₃)	ND		5.00	mg/L	1	05-Dec-2022 11:17
Alkalinity, Total (As CaCO ₃)	270		5.00	mg/L	1	05-Dec-2022 11:17
PH BY SM4500H+ B-2011			Method:SM4500H+ B			Analyst: CD
pH	8.75	H	0.100	pH Units	1	01-Dec-2022 15:08
Temp Deg C @pH	20.7	H	0	°C	1	01-Dec-2022 15:08

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Telesto Solutions Inc
 Project: LRM-Knox Pit
 Sample ID: MW-06
 Collection Date: 28-Nov-2022 11:55

ANALYTICAL REPORT

WorkOrder:HS22111616
 Lab ID:HS22111616-02
 Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)		Prep:SW3010A / 01-Dec-2022		Analyst: JHD
Aluminum	ND		0.0100	mg/L	1	05-Dec-2022 17:02
Antimony	ND		0.00200	mg/L	1	05-Dec-2022 17:02
Arsenic	ND		0.00200	mg/L	1	05-Dec-2022 17:02
Barium	0.0266		0.00400	mg/L	1	05-Dec-2022 17:02
Beryllium	ND		0.00200	mg/L	1	05-Dec-2022 17:02
Boron	0.0736		0.0200	mg/L	1	05-Dec-2022 17:02
Cadmium	ND		0.00200	mg/L	1	05-Dec-2022 17:02
Calcium	336		2.50	mg/L	5	03-Dec-2022 00:22
Chromium	ND		0.00400	mg/L	1	05-Dec-2022 17:02
Cobalt	ND		0.00500	mg/L	1	05-Dec-2022 17:02
Copper	0.00354		0.00200	mg/L	1	05-Dec-2022 17:02
Iron	ND		0.200	mg/L	1	05-Dec-2022 17:02
Lead	ND		0.00200	mg/L	1	05-Dec-2022 17:02
Lithium	0.0169		0.00500	mg/L	1	05-Dec-2022 17:02
Magnesium	17.9		0.200	mg/L	1	05-Dec-2022 17:02
Manganese	ND		0.00500	mg/L	1	05-Dec-2022 17:02
Molybdenum	0.00771		0.00500	mg/L	1	05-Dec-2022 17:02
Nickel	ND		0.00200	mg/L	1	05-Dec-2022 17:02
Potassium	4.88		0.200	mg/L	1	05-Dec-2022 17:02
Selenium	0.0110		0.00200	mg/L	1	05-Dec-2022 17:02
Silver	ND		0.00200	mg/L	1	05-Dec-2022 17:02
Sodium	10.3		0.200	mg/L	1	05-Dec-2022 17:02
Thallium	ND		0.00200	mg/L	1	05-Dec-2022 17:02
Uranium	0.0199		0.00500	mg/L	1	05-Dec-2022 17:02
Vanadium	ND		0.00500	mg/L	1	05-Dec-2022 17:02
Zinc	ND		0.00400	mg/L	1	05-Dec-2022 17:02
DISSOLVED MERCURY BY SW7470A		Method:SW7470A (dissolved)		Prep:SW7470A / 05-Dec-2022		Analyst: MSC
Mercury	ND		0.000200	mg/L	1	05-Dec-2022 12:43
NITRATE/NITRITE BY E300.0, REV 2.1, 1993		Method:E300				Analyst: TH
Nitrate/Nitrite (as N)	4.36		2.00	mg/L	10	03-Dec-2022 22:39
CYANIDE - SW9014		Method:SW9014		Prep:SW9010C / 07-Dec-2022		Analyst: JAC
Cyanide, Total	ND		0.00500	mg/L	1	08-Dec-2022 13:31

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Telesto Solutions Inc
 Project: LRM-Knox Pit
 Sample ID: MW-13 RAW
 Collection Date: 28-Nov-2022 14:20

ANALYTICAL REPORT

WorkOrder:HS22111616
 Lab ID:HS22111616-03
 Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0, REV 2.1, 1993		Method:E300		Analyst: TH		
Chloride	4.95		0.500	mg/L	1	10-Dec-2022 08:54
Fluoride	0.361		0.100	mg/L	1	10-Dec-2022 08:54
Sulfate	48.9		0.500	mg/L	1	10-Dec-2022 08:54
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C		Analyst: CWG		
Total Dissolved Solids (Residue, Filterable)	232		10.0	mg/L	1	01-Dec-2022 16:53
ALKALINITY BY SM 2320B-2011		Method:SM2320B		Analyst: JAC		
Alkalinity, Bicarbonate (As CaCO ₃)	126		5.00	mg/L	1	05-Dec-2022 11:30
Alkalinity, Carbonate (As CaCO ₃)	ND		5.00	mg/L	1	05-Dec-2022 11:30
Alkalinity, Total (As CaCO ₃)	126		5.00	mg/L	1	05-Dec-2022 11:30
PH BY SM4500H+ B-2011		Method:SM4500H+ B		Analyst: CD		
pH	9.31	H	0.100	pH Units	1	01-Dec-2022 15:08
Temp Deg C @pH	20.4	H	0	°C	1	01-Dec-2022 15:08

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Telesto Solutions Inc
 Project: LRM-Knox Pit
 Sample ID: MW-13
 Collection Date: 28-Nov-2022 14:20

ANALYTICAL REPORT

WorkOrder:HS22111616
 Lab ID:HS22111616-04
 Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)		Prep:SW3010A / 01-Dec-2022		Analyst: JHD
Aluminum	0.0304		0.0100	mg/L	1	05-Dec-2022 17:04
Antimony	ND		0.00200	mg/L	1	05-Dec-2022 17:04
Arsenic	ND		0.00200	mg/L	1	05-Dec-2022 17:04
Barium	0.0378		0.00400	mg/L	1	05-Dec-2022 17:04
Beryllium	ND		0.00200	mg/L	1	05-Dec-2022 17:04
Boron	0.0253		0.0200	mg/L	1	05-Dec-2022 17:04
Cadmium	ND		0.00200	mg/L	1	05-Dec-2022 17:04
Calcium	60.0		0.500	mg/L	1	05-Dec-2022 17:04
Chromium	ND		0.00400	mg/L	1	05-Dec-2022 17:04
Cobalt	ND		0.00500	mg/L	1	05-Dec-2022 17:04
Copper	ND		0.00200	mg/L	1	05-Dec-2022 17:04
Iron	ND		0.200	mg/L	1	05-Dec-2022 17:04
Lead	ND		0.00200	mg/L	1	05-Dec-2022 17:04
Lithium	0.00577		0.00500	mg/L	1	05-Dec-2022 17:04
Magnesium	6.61		0.200	mg/L	1	05-Dec-2022 17:04
Manganese	0.0153		0.00500	mg/L	1	05-Dec-2022 17:04
Molybdenum	ND		0.00500	mg/L	1	05-Dec-2022 17:04
Nickel	ND		0.00200	mg/L	1	05-Dec-2022 17:04
Potassium	1.08		0.200	mg/L	1	05-Dec-2022 17:04
Selenium	ND		0.00200	mg/L	1	05-Dec-2022 17:04
Silver	ND		0.00200	mg/L	1	05-Dec-2022 17:04
Sodium	6.09		0.200	mg/L	1	05-Dec-2022 17:04
Thallium	ND		0.00200	mg/L	1	05-Dec-2022 17:04
Uranium	ND		0.00500	mg/L	1	05-Dec-2022 17:04
Vanadium	ND		0.00500	mg/L	1	05-Dec-2022 17:04
Zinc	ND		0.00400	mg/L	1	05-Dec-2022 17:04
DISSOLVED MERCURY BY SW7470A		Method:SW7470A (dissolved)		Prep:SW7470A / 05-Dec-2022		Analyst: MSC
Mercury	ND		0.000200	mg/L	1	05-Dec-2022 12:58
NITRATE/NITRITE BY E300.0, REV 2.1, 1993		Method:E300				Analyst: TH
Nitrate/Nitrite (as N)	ND		2.00	mg/L	10	03-Dec-2022 22:44
CYANIDE - SW9014		Method:SW9014		Prep:SW9010C / 07-Dec-2022		Analyst: JAC
Cyanide, Total	ND		0.00500	mg/L	1	08-Dec-2022 13:31

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Telesto Solutions Inc
 Project: LRM-Knox Pit
 Sample ID: MW-12 RAW
 Collection Date: 28-Nov-2022 15:05

ANALYTICAL REPORT

WorkOrder:HS22111616
 Lab ID:HS22111616-05
 Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0, REV 2.1, 1993		Method:E300		Analyst: TH		
Chloride	11.1		0.500	mg/L	1	10-Dec-2022 09:36
Fluoride	0.593		0.100	mg/L	1	10-Dec-2022 09:36
Sulfate	518		10.0	mg/L	20	10-Dec-2022 09:41
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C		Analyst: CWG		
Total Dissolved Solids (Residue, Filterable)	884		10.0	mg/L	1	01-Dec-2022 16:53
ALKALINITY BY SM 2320B-2011		Method:SM2320B		Analyst: JAC		
Alkalinity, Bicarbonate (As CaCO ₃)	179		5.00	mg/L	1	05-Dec-2022 11:37
Alkalinity, Carbonate (As CaCO ₃)	ND		5.00	mg/L	1	05-Dec-2022 11:37
Alkalinity, Total (As CaCO ₃)	179		5.00	mg/L	1	05-Dec-2022 11:37
PH BY SM4500H+ B-2011		Method:SM4500H+ B		Analyst: CD		
pH	8.62	H	0.100	pH Units	1	01-Dec-2022 15:08
Temp Deg C @pH	20.0	H	0	°C	1	01-Dec-2022 15:08

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Telesto Solutions Inc
 Project: LRM-Knox Pit
 Sample ID: MW-12
 Collection Date: 28-Nov-2022 15:05

ANALYTICAL REPORT

WorkOrder:HS22111616
 Lab ID:HS22111616-06
 Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)		Prep:SW3010A / 01-Dec-2022		Analyst: JHD
Aluminum	ND		0.0100	mg/L	1	05-Dec-2022 17:06
Antimony	ND		0.00200	mg/L	1	05-Dec-2022 17:06
Arsenic	ND		0.00200	mg/L	1	05-Dec-2022 17:06
Barium	0.0490		0.00400	mg/L	1	05-Dec-2022 17:06
Beryllium	ND		0.00200	mg/L	1	05-Dec-2022 17:06
Boron	0.0426		0.0200	mg/L	1	05-Dec-2022 17:06
Cadmium	ND		0.00200	mg/L	1	05-Dec-2022 17:06
Calcium	205		2.50	mg/L	5	03-Dec-2022 00:26
Chromium	ND		0.00400	mg/L	1	05-Dec-2022 17:06
Cobalt	ND		0.00500	mg/L	1	05-Dec-2022 17:06
Copper	ND		0.00200	mg/L	1	05-Dec-2022 17:06
Iron	ND		0.200	mg/L	1	05-Dec-2022 17:06
Lead	ND		0.00200	mg/L	1	05-Dec-2022 17:06
Lithium	0.0135		0.00500	mg/L	1	05-Dec-2022 17:06
Magnesium	16.8		0.200	mg/L	1	05-Dec-2022 17:06
Manganese	ND		0.00500	mg/L	1	05-Dec-2022 17:06
Molybdenum	ND		0.00500	mg/L	1	05-Dec-2022 17:06
Nickel	ND		0.00200	mg/L	1	05-Dec-2022 17:06
Potassium	1.56		0.200	mg/L	1	05-Dec-2022 17:06
Selenium	0.00307		0.00200	mg/L	1	05-Dec-2022 17:06
Silver	ND		0.00200	mg/L	1	05-Dec-2022 17:06
Sodium	16.1		0.200	mg/L	1	05-Dec-2022 17:06
Thallium	ND		0.00200	mg/L	1	05-Dec-2022 17:06
Uranium	0.00599		0.00500	mg/L	1	05-Dec-2022 17:06
Vanadium	ND		0.00500	mg/L	1	05-Dec-2022 17:06
Zinc	ND		0.00400	mg/L	1	05-Dec-2022 17:06
DISSOLVED MERCURY BY SW7470A		Method:SW7470A (dissolved)		Prep:SW7470A / 05-Dec-2022		Analyst: MSC
Mercury	ND		0.000200	mg/L	1	05-Dec-2022 13:04
NITRATE/NITRITE BY E300.0, REV 2.1, 1993		Method:E300				Analyst: TH
Nitrate/Nitrite (as N)	ND		2.00	mg/L	10	03-Dec-2022 22:50
CYANIDE - SW9014		Method:SW9014		Prep:SW9010C / 07-Dec-2022		Analyst: JAC
Cyanide, Total	ND		0.00500	mg/L	1	08-Dec-2022 13:31

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Telesto Solutions Inc
 Project: LRM-Knox Pit
 Sample ID: 02-MW-12 RAW
 Collection Date: 28-Nov-2022 15:10

ANALYTICAL REPORT

WorkOrder:HS22111616
 Lab ID:HS22111616-07
 Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0, REV 2.1, 1993		Method:E300		Analyst: TH		
Chloride	11.1		0.500	mg/L	1	10-Dec-2022 09:47
Fluoride	0.645		0.100	mg/L	1	10-Dec-2022 09:47
Sulfate	513		10.0	mg/L	20	10-Dec-2022 09:52
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C		Analyst: CWG		
Total Dissolved Solids (Residue, Filterable)	896		10.0	mg/L	1	01-Dec-2022 16:53
ALKALINITY BY SM 2320B-2011		Method:SM2320B		Analyst: JAC		
Alkalinity, Bicarbonate (As CaCO ₃)	179		5.00	mg/L	1	05-Dec-2022 11:43
Alkalinity, Carbonate (As CaCO ₃)	ND		5.00	mg/L	1	05-Dec-2022 11:43
Alkalinity, Total (As CaCO ₃)	179		5.00	mg/L	1	05-Dec-2022 11:43
PH BY SM4500H+ B-2011		Method:SM4500H+ B		Analyst: CD		
pH	8.54	H	0.100	pH Units	1	01-Dec-2022 15:08
Temp Deg C @pH	20.2	H	0	°C	1	01-Dec-2022 15:08

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Telesto Solutions Inc
 Project: LRM-Knox Pit
 Sample ID: 02-MW-12
 Collection Date: 28-Nov-2022 15:10

ANALYTICAL REPORT

WorkOrder:HS22111616
 Lab ID:HS22111616-08
 Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)		Prep:SW3010A / 01-Dec-2022		Analyst: JHD
Aluminum	0.0185		0.0100	mg/L	1	05-Dec-2022 17:08
Antimony	ND		0.00200	mg/L	1	05-Dec-2022 17:08
Arsenic	ND		0.00200	mg/L	1	05-Dec-2022 17:08
Barium	0.0515		0.00400	mg/L	1	05-Dec-2022 17:08
Beryllium	ND		0.00200	mg/L	1	05-Dec-2022 17:08
Boron	0.0452		0.0200	mg/L	1	05-Dec-2022 17:08
Cadmium	ND		0.00200	mg/L	1	05-Dec-2022 17:08
Calcium	212		2.50	mg/L	5	03-Dec-2022 00:28
Chromium	ND		0.00400	mg/L	1	05-Dec-2022 17:08
Cobalt	ND		0.00500	mg/L	1	05-Dec-2022 17:08
Copper	ND		0.00200	mg/L	1	05-Dec-2022 17:08
Iron	ND		0.200	mg/L	1	05-Dec-2022 17:08
Lead	ND		0.00200	mg/L	1	05-Dec-2022 17:08
Lithium	0.0143		0.00500	mg/L	1	05-Dec-2022 17:08
Magnesium	17.9		0.200	mg/L	1	05-Dec-2022 17:08
Manganese	ND		0.00500	mg/L	1	05-Dec-2022 17:08
Molybdenum	ND		0.00500	mg/L	1	05-Dec-2022 17:08
Nickel	ND		0.00200	mg/L	1	05-Dec-2022 17:08
Potassium	1.66		0.200	mg/L	1	05-Dec-2022 17:08
Selenium	0.00290		0.00200	mg/L	1	05-Dec-2022 17:08
Silver	ND		0.00200	mg/L	1	05-Dec-2022 17:08
Sodium	17.1		0.200	mg/L	1	05-Dec-2022 17:08
Thallium	ND		0.00200	mg/L	1	05-Dec-2022 17:08
Uranium	0.00640		0.00500	mg/L	1	05-Dec-2022 17:08
Vanadium	ND		0.00500	mg/L	1	05-Dec-2022 17:08
Zinc	ND		0.00400	mg/L	1	05-Dec-2022 17:08
DISSOLVED MERCURY BY SW7470A		Method:SW7470A (dissolved)		Prep:SW7470A / 05-Dec-2022		Analyst: MSC
Mercury	ND		0.000200	mg/L	1	05-Dec-2022 13:06
NITRATE/NITRITE BY E300.0, REV 2.1, 1993		Method:E300				Analyst: TH
Nitrate/Nitrite (as N)	ND		2.00	mg/L	10	03-Dec-2022 22:55
CYANIDE - SW9014		Method:SW9014		Prep:SW9010C / 07-Dec-2022		Analyst: JAC
Cyanide, Total	ND		0.00500	mg/L	1	08-Dec-2022 13:31

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Telesto Solutions Inc
 Project: LRM-Knox Pit
 Sample ID: MW-19 RAW
 Collection Date: 28-Nov-2022 15:37

ANALYTICAL REPORT

WorkOrder:HS22111616
 Lab ID:HS22111616-09
 Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0, REV 2.1, 1993		Method:E300		Analyst: TH		
Chloride	3.27		0.500	mg/L	1	10-Dec-2022 09:57
Fluoride	0.573		0.100	mg/L	1	10-Dec-2022 09:57
Sulfate	25.7		0.500	mg/L	1	10-Dec-2022 09:57
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C		Analyst: CWG		
Total Dissolved Solids (Residue, Filterable)	168		10.0	mg/L	1	01-Dec-2022 16:53
ALKALINITY BY SM 2320B-2011		Method:SM2320B		Analyst: JAC		
Alkalinity, Bicarbonate (As CaCO ₃)	112		5.00	mg/L	1	05-Dec-2022 11:50
Alkalinity, Carbonate (As CaCO ₃)	ND		5.00	mg/L	1	05-Dec-2022 11:50
Alkalinity, Total (As CaCO ₃)	112		5.00	mg/L	1	05-Dec-2022 11:50
PH BY SM4500H+ B-2011		Method:SM4500H+ B		Analyst: CD		
pH	8.53	H	0.100	pH Units	1	01-Dec-2022 15:08
Temp Deg C @pH	20.6	H	0	°C	1	01-Dec-2022 15:08

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Telesto Solutions Inc
 Project: LRM-Knox Pit
 Sample ID: MW-19
 Collection Date: 28-Nov-2022 15:37

ANALYTICAL REPORT

WorkOrder:HS22111616
 Lab ID:HS22111616-10
 Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)		Prep:SW3010A / 01-Dec-2022		Analyst: JHD
Aluminum	ND		0.0100	mg/L	1	05-Dec-2022 17:10
Antimony	ND		0.00200	mg/L	1	05-Dec-2022 17:10
Arsenic	ND		0.00200	mg/L	1	05-Dec-2022 17:10
Barium	0.0283		0.00400	mg/L	1	05-Dec-2022 17:10
Beryllium	ND		0.00200	mg/L	1	05-Dec-2022 17:10
Boron	0.0238		0.0200	mg/L	1	05-Dec-2022 17:10
Cadmium	ND		0.00200	mg/L	1	05-Dec-2022 17:10
Calcium	41.0		0.500	mg/L	1	05-Dec-2022 17:10
Chromium	ND		0.00400	mg/L	1	05-Dec-2022 17:10
Cobalt	ND		0.00500	mg/L	1	05-Dec-2022 17:10
Copper	ND		0.00200	mg/L	1	05-Dec-2022 17:10
Iron	ND		0.200	mg/L	1	05-Dec-2022 17:10
Lead	ND		0.00200	mg/L	1	05-Dec-2022 17:10
Lithium	0.00610		0.00500	mg/L	1	05-Dec-2022 17:10
Magnesium	5.31		0.200	mg/L	1	05-Dec-2022 17:10
Manganese	ND		0.00500	mg/L	1	05-Dec-2022 17:10
Molybdenum	ND		0.00500	mg/L	1	05-Dec-2022 17:10
Nickel	ND		0.00200	mg/L	1	05-Dec-2022 17:10
Potassium	0.912		0.200	mg/L	1	05-Dec-2022 17:10
Selenium	ND		0.00200	mg/L	1	05-Dec-2022 17:10
Silver	ND		0.00200	mg/L	1	05-Dec-2022 17:10
Sodium	5.06		0.200	mg/L	1	05-Dec-2022 17:10
Thallium	ND		0.00200	mg/L	1	05-Dec-2022 17:10
Uranium	ND		0.00500	mg/L	1	05-Dec-2022 17:10
Vanadium	ND		0.00500	mg/L	1	05-Dec-2022 17:10
Zinc	ND		0.00400	mg/L	1	05-Dec-2022 17:10
DISSOLVED MERCURY BY SW7470A		Method:SW7470A (dissolved)		Prep:SW7470A / 05-Dec-2022		Analyst: MSC
Mercury	ND		0.000200	mg/L	1	05-Dec-2022 13:08
NITRATE/NITRITE BY E300.0, REV 2.1, 1993		Method:E300				Analyst: TH
Nitrate/Nitrite (as N)	ND		2.00	mg/L	10	03-Dec-2022 23:00
CYANIDE - SW9014		Method:SW9014		Prep:SW9010C / 07-Dec-2022		Analyst: JAC
Cyanide, Total	ND		0.00500	mg/L	1	08-Dec-2022 13:31

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Telesto Solutions Inc
 Project: LRM-Knox Pit
 Sample ID: 03-Blank
 Collection Date: 28-Nov-2022 15:45

ANALYTICAL REPORT

WorkOrder:HS22111616
 Lab ID:HS22111616-11
 Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)		Prep:SW3010A / 01-Dec-2022		Analyst: JHD
Aluminum	ND		0.0100	mg/L	1	05-Dec-2022 17:12
Antimony	ND		0.00200	mg/L	1	05-Dec-2022 17:12
Arsenic	ND		0.00200	mg/L	1	05-Dec-2022 17:12
Barium	ND		0.00400	mg/L	1	05-Dec-2022 17:12
Beryllium	ND		0.00200	mg/L	1	05-Dec-2022 17:12
Boron	ND		0.0200	mg/L	1	05-Dec-2022 17:12
Cadmium	ND		0.00200	mg/L	1	05-Dec-2022 17:12
Calcium	ND		0.500	mg/L	1	05-Dec-2022 17:12
Chromium	ND		0.00400	mg/L	1	05-Dec-2022 17:12
Cobalt	ND		0.00500	mg/L	1	05-Dec-2022 17:12
Copper	ND		0.00200	mg/L	1	05-Dec-2022 17:12
Iron	ND		0.200	mg/L	1	05-Dec-2022 17:12
Lead	ND		0.00200	mg/L	1	05-Dec-2022 17:12
Lithium	ND		0.00500	mg/L	1	05-Dec-2022 17:12
Magnesium	ND		0.200	mg/L	1	05-Dec-2022 17:12
Manganese	ND		0.00500	mg/L	1	05-Dec-2022 17:12
Molybdenum	ND		0.00500	mg/L	1	05-Dec-2022 17:12
Nickel	ND		0.00200	mg/L	1	05-Dec-2022 17:12
Potassium	ND		0.200	mg/L	1	05-Dec-2022 17:12
Selenium	ND		0.00200	mg/L	1	05-Dec-2022 17:12
Silver	ND		0.00200	mg/L	1	05-Dec-2022 17:12
Sodium	ND		0.200	mg/L	1	05-Dec-2022 17:12
Thallium	ND		0.00200	mg/L	1	05-Dec-2022 17:12
Uranium	ND		0.00500	mg/L	1	05-Dec-2022 17:12
Vanadium	ND		0.00500	mg/L	1	05-Dec-2022 17:12
Zinc	ND		0.00400	mg/L	1	05-Dec-2022 17:12
DISSOLVED MERCURY BY SW7470A		Method:SW7470A (dissolved)		Prep:SW7470A / 05-Dec-2022		Analyst: MSC
Mercury	ND		0.000200	mg/L	1	05-Dec-2022 13:09
ANIONS BY E300.0, REV 2.1, 1993		Method:E300		Analyst: TH		
Chloride	ND		0.500	mg/L	1	10-Dec-2022 10:07
Fluoride	ND		0.100	mg/L	1	10-Dec-2022 10:07
Sulfate	ND		0.500	mg/L	1	10-Dec-2022 10:07
NITRATE/NITRITE BY E300.0, REV 2.1, 1993		Method:E300		Analyst: TH		
Nitrate/Nitrite (as N)	ND		2.00	mg/L	10	03-Dec-2022 23:05
TOTAL DISSOLVED SOLIDS BY SM2540C -2011		Method:M2540C		Analyst: CWG		
Total Dissolved Solids (Residue, Filterable)	ND		10.0	mg/L	1	01-Dec-2022 16:53

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Telesto Solutions Inc
Project: LRM-Knox Pit
Sample ID: 03-Blank
Collection Date: 28-Nov-2022 15:45

ANALYTICAL REPORT

WorkOrder:HS22111616
Lab ID:HS22111616-11
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ALKALINITY BY SM 2320B-2011		Method:SM2320B		Analyst: JAC		
Alkalinity, Bicarbonate (As CaCO3)	ND		5.00	mg/L	1	05-Dec-2022 12:11
Alkalinity, Carbonate (As CaCO3)	ND		5.00	mg/L	1	05-Dec-2022 12:11
Alkalinity, Total (As CaCO3)	ND		5.00	mg/L	1	05-Dec-2022 12:11
PH BY SM4500H+ B-2011		Method:SM4500H+ B		Analyst: CD		
pH	7.99	H	0.100	pH Units	1	01-Dec-2022 15:08
Temp Deg C @pH	20.2	H	0	°C	1	01-Dec-2022 15:08
CYANIDE - SW9014		Method:SW9014		Prep:SW9010C / 07-Dec-2022 Analyst: JAC		
Cyanide, Total	ND		0.00500	mg/L	1	08-Dec-2022 13:31

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Weight / Prep Log

Client: Telesto Solutions Inc

Project: LRM-Knox Pit

WorkOrder: HS22111616

Batch ID: 186828 Start Date: 01 Dec 2022 10:30 End Date: 01 Dec 2022 14:30

Method: DISS METALS PREP - WATER - SW3010A Prep Code: 3010A DISS

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS22111616-02		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2
HS22111616-04		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2
HS22111616-06		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2
HS22111616-08		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2
HS22111616-10		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2
HS22111616-11		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2

Batch ID: 186924 Start Date: 05 Dec 2022 09:00 End Date: 05 Dec 2022 12:00

Method: MERCURY PREP BY 7470A - DISSOLVED Prep Code: HG_W_DISSPR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS22111616-02		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2
HS22111616-04		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2
HS22111616-06		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2
HS22111616-08		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2
HS22111616-10		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2
HS22111616-11		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2

Batch ID: 187133 Start Date: 07 Dec 2022 15:38 End Date: 07 Dec 2022 17:08

Method: CYANIDE PREP - SW9010C Prep Code: CN_TW_PR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS22111616-02		50 (mL)	50 (mL)	1	120ml Plastic, Neat NaOH
HS22111616-04		50 (mL)	50 (mL)	1	120ml Plastic, Neat NaOH
HS22111616-06		50 (mL)	50 (mL)	1	120ml Plastic, Neat NaOH
HS22111616-08		50 (mL)	50 (mL)	1	120ml Plastic, Neat NaOH
HS22111616-10		50 (mL)	50 (mL)	1	120ml Plastic, Neat NaOH
HS22111616-11		50 (mL)	50 (mL)	1	120ml Plastic, Neat NaOH

Client: Telesto Solutions Inc
Project: LRM-Knox Pit
WorkOrder: HS22111616

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 186828 (0)		Test Name : DISSOLVED METALS BY SW6020A			Matrix: Water	
HS22111616-02	MW-06	28 Nov 2022 11:55		01 Dec 2022 10:30	05 Dec 2022 17:02	1
HS22111616-02	MW-06	28 Nov 2022 11:55		01 Dec 2022 10:30	03 Dec 2022 00:22	5
HS22111616-04	MW-13	28 Nov 2022 14:20		01 Dec 2022 10:30	05 Dec 2022 17:04	1
HS22111616-06	MW-12	28 Nov 2022 15:05		01 Dec 2022 10:30	05 Dec 2022 17:06	1
HS22111616-06	MW-12	28 Nov 2022 15:05		01 Dec 2022 10:30	03 Dec 2022 00:26	5
HS22111616-08	02-MW-12	28 Nov 2022 15:10		01 Dec 2022 10:30	05 Dec 2022 17:08	1
HS22111616-08	02-MW-12	28 Nov 2022 15:10		01 Dec 2022 10:30	03 Dec 2022 00:28	5
HS22111616-10	MW-19	28 Nov 2022 15:37		01 Dec 2022 10:30	05 Dec 2022 17:10	1
HS22111616-11	03-Blank	28 Nov 2022 15:45		01 Dec 2022 10:30	05 Dec 2022 17:12	1
Batch ID: 186924 (0)		Test Name : DISSOLVED MERCURY BY SW7470A			Matrix: Water	
HS22111616-02	MW-06	28 Nov 2022 11:55		05 Dec 2022 09:00	05 Dec 2022 12:43	1
HS22111616-04	MW-13	28 Nov 2022 14:20		05 Dec 2022 09:00	05 Dec 2022 12:58	1
HS22111616-06	MW-12	28 Nov 2022 15:05		05 Dec 2022 09:00	05 Dec 2022 13:04	1
HS22111616-08	02-MW-12	28 Nov 2022 15:10		05 Dec 2022 09:00	05 Dec 2022 13:06	1
HS22111616-10	MW-19	28 Nov 2022 15:37		05 Dec 2022 09:00	05 Dec 2022 13:08	1
HS22111616-11	03-Blank	28 Nov 2022 15:45		05 Dec 2022 09:00	05 Dec 2022 13:09	1
Batch ID: 187133 (0)		Test Name : CYANIDE - SW9014			Matrix: Water	
HS22111616-02	MW-06	28 Nov 2022 11:55		07 Dec 2022 15:38	08 Dec 2022 13:31	1
HS22111616-04	MW-13	28 Nov 2022 14:20		07 Dec 2022 15:38	08 Dec 2022 13:31	1
HS22111616-06	MW-12	28 Nov 2022 15:05		07 Dec 2022 15:38	08 Dec 2022 13:31	1
HS22111616-08	02-MW-12	28 Nov 2022 15:10		07 Dec 2022 15:38	08 Dec 2022 13:31	1
HS22111616-10	MW-19	28 Nov 2022 15:37		07 Dec 2022 15:38	08 Dec 2022 13:31	1
HS22111616-11	03-Blank	28 Nov 2022 15:45		07 Dec 2022 15:38	08 Dec 2022 13:31	1
Batch ID: R422946 (0)		Test Name : PH BY SM4500H+ B-2011			Matrix: Water	
HS22111616-01	MW-06 RAW	28 Nov 2022 11:55			01 Dec 2022 15:08	1
HS22111616-03	MW-13 RAW	28 Nov 2022 14:20			01 Dec 2022 15:08	1
HS22111616-05	MW-12 RAW	28 Nov 2022 15:05			01 Dec 2022 15:08	1
HS22111616-07	02-MW-12 RAW	28 Nov 2022 15:10			01 Dec 2022 15:08	1
HS22111616-09	MW-19 RAW	28 Nov 2022 15:37			01 Dec 2022 15:08	1
HS22111616-11	03-Blank	28 Nov 2022 15:45			01 Dec 2022 15:08	1
Batch ID: R423067 (0)		Test Name : TOTAL DISSOLVED SOLIDS BY SM2540C-2011			Matrix: Water	
HS22111616-01	MW-06 RAW	28 Nov 2022 11:55			01 Dec 2022 16:53	1
HS22111616-03	MW-13 RAW	28 Nov 2022 14:20			01 Dec 2022 16:53	1
HS22111616-05	MW-12 RAW	28 Nov 2022 15:05			01 Dec 2022 16:53	1
HS22111616-07	02-MW-12 RAW	28 Nov 2022 15:10			01 Dec 2022 16:53	1
HS22111616-09	MW-19 RAW	28 Nov 2022 15:37			01 Dec 2022 16:53	1
HS22111616-11	03-Blank	28 Nov 2022 15:45			01 Dec 2022 16:53	1

Client: Telesto Solutions Inc
Project: LRM-Knox Pit
WorkOrder: HS22111616

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R423129 (0)		Test Name : NITRATE/NITRITE BY E300.0, REV 2.1, 1993			Matrix: Water	
HS22111616-02	MW-06	28 Nov 2022 11:55			03 Dec 2022 22:39	10
HS22111616-04	MW-13	28 Nov 2022 14:20			03 Dec 2022 22:44	10
HS22111616-06	MW-12	28 Nov 2022 15:05			03 Dec 2022 22:50	10
HS22111616-08	02-MW-12	28 Nov 2022 15:10			03 Dec 2022 22:55	10
HS22111616-10	MW-19	28 Nov 2022 15:37			03 Dec 2022 23:00	10
HS22111616-11	03-Blank	28 Nov 2022 15:45			03 Dec 2022 23:05	10
Batch ID: R423178 (0)		Test Name : ALKALINITY BY SM 2320B-2011			Matrix: Water	
HS22111616-01	MW-06 RAW	28 Nov 2022 11:55			05 Dec 2022 11:17	1
HS22111616-03	MW-13 RAW	28 Nov 2022 14:20			05 Dec 2022 11:30	1
HS22111616-05	MW-12 RAW	28 Nov 2022 15:05			05 Dec 2022 11:37	1
HS22111616-07	02-MW-12 RAW	28 Nov 2022 15:10			05 Dec 2022 11:43	1
HS22111616-09	MW-19 RAW	28 Nov 2022 15:37			05 Dec 2022 11:50	1
HS22111616-11	03-Blank	28 Nov 2022 15:45			05 Dec 2022 12:11	1
Batch ID: R423674 (0)		Test Name : ANIONS BY E300.0, REV 2.1, 1993			Matrix: Water	
HS22111616-01	MW-06 RAW	28 Nov 2022 11:55			10 Dec 2022 08:49	20
HS22111616-01	MW-06 RAW	28 Nov 2022 11:55			10 Dec 2022 08:33	1
HS22111616-03	MW-13 RAW	28 Nov 2022 14:20			10 Dec 2022 08:54	1
HS22111616-05	MW-12 RAW	28 Nov 2022 15:05			10 Dec 2022 09:41	20
HS22111616-05	MW-12 RAW	28 Nov 2022 15:05			10 Dec 2022 09:36	1
HS22111616-07	02-MW-12 RAW	28 Nov 2022 15:10			10 Dec 2022 09:52	20
HS22111616-07	02-MW-12 RAW	28 Nov 2022 15:10			10 Dec 2022 09:47	1
HS22111616-09	MW-19 RAW	28 Nov 2022 15:37			10 Dec 2022 09:57	1
HS22111616-11	03-Blank	28 Nov 2022 15:45			10 Dec 2022 10:07	1

Client: Telesto Solutions Inc

Project: LRM-Knox Pit

WorkOrder: HS22111616

QC BATCH REPORT

Batch ID: 186828 (0)		Instrument: ICPMS07		Method: DISSOLVED METALS BY SW6020A (DISSOLVED)					
MBLK		Sample ID: MBLKF2-186828		Units: mg/L		Analysis Date: 02-Dec-2022 23:26			
Client ID:		Run ID: ICPMS07_423044		SeqNo: 7011903		PrepDate: 01-Dec-2022		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Aluminum	0.01353	0.0100							
Antimony	ND	0.00200							
Arsenic	ND	0.00200							
Barium	ND	0.00400							
Beryllium	ND	0.00200							
Cadmium	ND	0.00200							
Calcium	ND	0.500							
Chromium	ND	0.00400							
Cobalt	ND	0.00500							
Copper	ND	0.00200							
Iron	ND	0.200							
Lead	ND	0.00200							
Lithium	ND	0.00500							
Magnesium	ND	0.200							
Manganese	ND	0.00500							
Molybdenum	ND	0.00500							
Nickel	ND	0.00200							
Potassium	ND	0.200							
Selenium	ND	0.00200							
Silver	ND	0.00200							
Sodium	ND	0.200							
Thallium	ND	0.00200							
Uranium	ND	0.00500							
Vanadium	ND	0.00500							
Zinc	ND	0.00400							

Client: Telesto Solutions Inc

Project: LRM-Knox Pit

WorkOrder: HS22111616

QC BATCH REPORT

Batch ID: 186828 (0)		Instrument: ICPMS07		Method: DISSOLVED METALS BY SW6020A (DISSOLVED)					
MBLK	Sample ID: MBLKF1-186828	Units: mg/L		Analysis Date: 02-Dec-2022 23:24					
Client ID:	Run ID: ICPMS07_423044		SeqNo: 7011902		PrepDate: 01-Dec-2022		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Aluminum	0.01378	0.0100							
Antimony	ND	0.00200							
Arsenic	ND	0.00200							
Barium	ND	0.00400							
Beryllium	ND	0.00200							
Cadmium	ND	0.00200							
Calcium	ND	0.500							
Chromium	ND	0.00400							
Cobalt	ND	0.00500							
Copper	ND	0.00200							
Iron	ND	0.200							
Lead	ND	0.00200							
Lithium	ND	0.00500							
Magnesium	ND	0.200							
Manganese	ND	0.00500							
Molybdenum	ND	0.00500							
Nickel	ND	0.00200							
Potassium	ND	0.200							
Selenium	ND	0.00200							
Silver	ND	0.00200							
Sodium	ND	0.200							
Thallium	ND	0.00200							
Uranium	ND	0.00500							
Vanadium	ND	0.00500							
Zinc	ND	0.00400							

Client: Telesto Solutions Inc

Project: LRM-Knox Pit

WorkOrder: HS22111616

QC BATCH REPORT

Batch ID: 186828 (0)		Instrument: ICPMS07		Method: DISSOLVED METALS BY SW6020A (DISSOLVED)					
MBLK	Sample ID: MBLK-186828	Units: mg/L		Analysis Date: 05-Dec-2022 15:48					
Client ID:	Run ID: ICPMS07_423199		SeqNo: 7014571		PrepDate: 01-Dec-2022		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Aluminum	ND	0.0100							
Antimony	ND	0.00200							
Arsenic	ND	0.00200							
Barium	ND	0.00400							
Beryllium	ND	0.00200							
Boron	ND	0.0200							
Cadmium	ND	0.00200							
Calcium	ND	0.500							
Chromium	ND	0.00400							
Cobalt	ND	0.00500							
Copper	ND	0.00200							
Iron	ND	0.200							
Lead	ND	0.00200							
Lithium	ND	0.00500							
Magnesium	ND	0.200							
Manganese	ND	0.00500							
Molybdenum	ND	0.00500							
Nickel	ND	0.00200							
Potassium	ND	0.200							
Selenium	ND	0.00200							
Silver	ND	0.00200							
Sodium	ND	0.200							
Thallium	ND	0.00200							
Uranium	ND	0.00500							
Vanadium	ND	0.00500							
Zinc	ND	0.00400							

MBLK	Sample ID: MBLK2-186828	Units: mg/L		Analysis Date: 05-Dec-2022 15:52					
Client ID:	Run ID: ICPMS07_423199		SeqNo: 7014573		PrepDate: 01-Dec-2022		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Boron	ND	0.0200							
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Client: Telesto Solutions Inc
Project: LRM-Knox Pit
WorkOrder: HS22111616

QC BATCH REPORT

Batch ID: 186828 (0)		Instrument: ICPMS07		Method: DISSOLVED METALS BY SW6020A (DISSOLVED)					
MBLK	Sample ID: MBLKF1-186828	Units: mg/L		Analysis Date: 05-Dec-2022 15:50					
Client ID:	Run ID: ICPMS07_423199		SeqNo: 7014572		PrepDate: 01-Dec-2022		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Boron ND 0.0200

LCS	Sample ID: LCS-186828	Units: mg/L		Analysis Date: 02-Dec-2022 23:28					
Client ID:	Run ID: ICPMS07_423044		SeqNo: 7011904		PrepDate: 01-Dec-2022		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Aluminum	0.1153	0.0100	0.1	0	115	80 - 120			
Antimony	0.05925	0.00200	0.05	0	118	80 - 120			
Arsenic	0.05837	0.00200	0.05	0	117	80 - 120			
Barium	0.05481	0.00400	0.05	0	110	80 - 120			
Beryllium	0.05819	0.00200	0.05	0	116	80 - 120			
Cadmium	0.05942	0.00200	0.05	0	119	80 - 120			
Calcium	5.602	0.500	5	0	112	80 - 120			
Chromium	0.05604	0.00400	0.05	0	112	80 - 120			
Cobalt	0.05467	0.00500	0.05	0	109	80 - 120			
Copper	0.05745	0.00200	0.05	0	115	80 - 120			
Iron	5.569	0.200	5	0	111	80 - 120			
Lead	0.05239	0.00200	0.05	0	105	80 - 120			
Lithium	0.1112	0.00500	0.1	0	111	80 - 120			
Magnesium	5.638	0.200	5	0	113	80 - 120			
Manganese	0.05611	0.00500	0.05	0	112	80 - 120			
Molybdenum	0.05973	0.00500	0.05	0	119	80 - 120			
Nickel	0.0567	0.00200	0.05	0	113	80 - 120			
Potassium	5.683	0.200	5	0	114	80 - 120			
Silver	0.05342	0.00200	0.05	0	107	80 - 120			
Sodium	5.55	0.200	5	0	111	80 - 120			
Thallium	0.04303	0.00200	0.05	0	86.1	80 - 120			
Uranium	0.113	0.00500	0.1	0	113	80 - 120			
Vanadium	0.0565	0.00500	0.05	0	113	80 - 120			
Zinc	0.0596	0.00400	0.05	0	119	80 - 120			

Client: Telesto Solutions Inc
Project: LRM-Knox Pit
WorkOrder: HS22111616

QC BATCH REPORT

Batch ID: 186828 (0)		Instrument: ICPMS07		Method: DISSOLVED METALS BY SW6020A (DISSOLVED)					
LCS		Sample ID: LCS-186828		Units: mg/L		Analysis Date: 05-Dec-2022 16:05			
Client ID:		Run ID: ICPMS07_423199		SeqNo: 7014602		PrepDate: 01-Dec-2022		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Boron	0.5105	0.0200	0.5	0	102	80 - 120			
Selenium	0.05828	0.00200	0.05	0	117	80 - 120			

MS		Sample ID: HS22111003-02MS		Units: mg/L		Analysis Date: 02-Dec-2022 23:33			
Client ID:		Run ID: ICPMS07_423044		SeqNo: 7011907		PrepDate: 01-Dec-2022		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Aluminum	0.1162	0.0100	0.1	0.01216	104	75 - 125			
Antimony	0.0565	0.00200	0.05	0.000077	113	75 - 125			
Arsenic	0.05747	0.00200	0.05	0.000996	113	75 - 125			
Barium	0.1654	0.00400	0.05	0.1113	108	75 - 125			
Beryllium	0.05562	0.00200	0.05	0.000109	111	75 - 125			
Boron	1.116	0.0200	0.5	0.6061	102	75 - 125			E
Cadmium	0.05425	0.00200	0.05	0.000044	108	75 - 125			
Calcium	164.8	0.500	5	160.8	79.9	75 - 125			O
Chromium	0.05424	0.00400	0.05	0.00006	108	75 - 125			
Cobalt	0.05155	0.00500	0.05	0.000066	103	75 - 125			
Copper	0.05334	0.00200	0.05	0.000303	106	75 - 125			
Iron	5.267	0.200	5	0.005452	105	75 - 125			
Lead	0.04949	0.00200	0.05	0.000095	98.8	75 - 125			
Lithium	0.1143	0.00500	0.1	0.005756	109	75 - 125			
Magnesium	81.56	0.200	5	76.25	106	75 - 125			O
Manganese	0.05378	0.00500	0.05	0.000231	107	75 - 125			
Molybdenum	0.0554	0.00500	0.05	0.000178	110	75 - 125			
Nickel	0.05252	0.00200	0.05	0.00007	105	75 - 125			
Potassium	6.493	0.200	5	1.007	110	75 - 125			
Selenium	0.05514	0.00200	0.05	0.001001	108	75 - 125			
Silver	0.0483	0.00200	0.05	0.000035	96.5	75 - 125			
Sodium	34.95	0.200	5	29.81	103	75 - 125			O
Thallium	0.04194	0.00200	0.05	0.000284	83.3	75 - 125			
Uranium	0.1171	0.00500	0.1	0.001906	115	75 - 125			
Vanadium	0.05843	0.00500	0.05	0.003148	111	75 - 125			
Zinc	0.05542	0.00400	0.05	0.001385	108	75 - 125			

Client: Telesto Solutions Inc
Project: LRM-Knox Pit
WorkOrder: HS22111616

QC BATCH REPORT

Batch ID: 186828 (0)		Instrument: ICPMS07		Method: DISSOLVED METALS BY SW6020A (DISSOLVED)					
MSD		Sample ID: HS22111003-02MSD		Units: mg/L		Analysis Date: 02-Dec-2022 23:35			
Client ID:		Run ID: ICPMS07_423044		SeqNo: 7011908		PrepDate: 01-Dec-2022		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Aluminum	0.1052	0.0100	0.1	0.01216	93.0	75 - 125	0.1162	9.9	20
Antimony	0.04914	0.00200	0.05	0.000077	98.1	75 - 125	0.0565	13.9	20
Arsenic	0.05111	0.00200	0.05	0.000996	100	75 - 125	0.05747	11.7	20
Barium	0.153	0.00400	0.05	0.1113	83.4	75 - 125	0.1654	7.78	20
Beryllium	0.0478	0.00200	0.05	0.000109	95.4	75 - 125	0.05562	15.1	20
Boron	1.158	0.0200	0.5	0.6061	110	75 - 125	1.116	3.69	20 E
Cadmium	0.04697	0.00200	0.05	0.000044	93.9	75 - 125	0.05425	14.4	20
Calcium	159.6	0.500	5	160.8	-25.3	75 - 125	164.8	3.24	20 SO
Chromium	0.04638	0.00400	0.05	0.00006	92.6	75 - 125	0.05424	15.6	20
Cobalt	0.04457	0.00500	0.05	0.000066	89.0	75 - 125	0.05155	14.5	20
Copper	0.04644	0.00200	0.05	0.000303	92.3	75 - 125	0.05334	13.8	20
Iron	4.606	0.200	5	0.005452	92.0	75 - 125	5.267	13.4	20
Lead	0.0427	0.00200	0.05	0.000095	85.2	75 - 125	0.04949	14.7	20
Lithium	0.1102	0.00500	0.1	0.005756	104	75 - 125	0.1143	3.69	20
Magnesium	78.45	0.200	5	76.25	44.0	75 - 125	81.56	3.89	20 SO
Manganese	0.04684	0.00500	0.05	0.000231	93.2	75 - 125	0.05378	13.8	20
Molybdenum	0.04814	0.00500	0.05	0.000178	95.9	75 - 125	0.0554	14	20
Nickel	0.0461	0.00200	0.05	0.00007	92.1	75 - 125	0.05252	13	20
Potassium	5.834	0.200	5	1.007	96.5	75 - 125	6.493	10.7	20
Selenium	0.04855	0.00200	0.05	0.001001	95.1	75 - 125	0.05514	12.7	20
Silver	0.04179	0.00200	0.05	0.000035	83.5	75 - 125	0.0483	14.4	20
Sodium	33.25	0.200	5	29.81	68.8	75 - 125	34.95	4.97	20 SO
Thallium	0.03591	0.00200	0.05	0.000284	71.3	75 - 125	0.04194	15.5	20 S
Uranium	0.1105	0.00500	0.1	0.001906	109	75 - 125	0.1171	5.76	20
Vanadium	0.05112	0.00500	0.05	0.003148	95.9	75 - 125	0.05843	13.3	20
Zinc	0.04863	0.00400	0.05	0.001385	94.5	75 - 125	0.05542	13	20

Client: Telesto Solutions Inc
Project: LRM-Knox Pit
WorkOrder: HS22111616

QC BATCH REPORT

Batch ID: 186828 (0)		Instrument: ICPMS07		Method: DISSOLVED METALS BY SW6020A (DISSOLVED)					
PDS		Sample ID: HS22111003-02PDS		Units: mg/L		Analysis Date: 02-Dec-2022 23:37			
Client ID:		Run ID: ICPMS07_423044		SeqNo: 7011909		PrepDate: 01-Dec-2022		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Aluminum	0.1043	0.0100	0.1	0.01216	92.2	75 - 125			
Antimony	0.1024	0.00200	0.1	0.000077	102	75 - 125			
Arsenic	0.1048	0.00200	0.1	0.000996	104	75 - 125			
Barium	0.2051	0.00400	0.1	0.1113	93.7	75 - 125			
Beryllium	0.1026	0.00200	0.1	0.000109	102	75 - 125			
Cadmium	0.1009	0.00200	0.1	0.000044	101	75 - 125			
Calcium	155	0.500	10	160.8	-58.0	75 - 125			SO
Chromium	0.0994	0.00400	0.1	0.00006	99.3	75 - 125			
Cobalt	0.09489	0.00500	0.1	0.000066	94.8	75 - 125			
Copper	0.09758	0.00200	0.1	0.000303	97.3	75 - 125			
Iron	9.698	0.200	10	0.005452	96.9	75 - 125			
Lead	0.1007	0.00200	0.1	0.000095	101	75 - 125			
Lithium	0.1017	0.00500	0.1	0.005756	95.9	75 - 125			
Magnesium	79.07	0.200	10	76.25	28.2	75 - 125			SO
Manganese	0.1	0.00500	0.1	0.000231	99.8	75 - 125			
Molybdenum	0.103	0.00500	0.1	0.000178	103	75 - 125			
Nickel	0.0977	0.00200	0.1	0.00007	97.6	75 - 125			
Potassium	10.83	0.200	10	1.007	98.2	75 - 125			
Selenium	0.1033	0.00200	0.1	0.001001	102	75 - 125			
Silver	0.09112	0.00200	0.1	0.000035	91.1	75 - 125			
Thallium	0.09937	0.00200	0.1	0.000284	99.1	75 - 125			
Uranium	0.1061	0.00500	0.1	0.001906	104	75 - 125			
Vanadium	0.104	0.00500	0.1	0.003148	101	75 - 125			
Zinc	0.1015	0.00400	0.1	0.001385	100	75 - 125			

PDS		Sample ID: HS22111003-02PDS		Units: mg/L		Analysis Date: 05-Dec-2022 16:21			
Client ID:		Run ID: ICPMS07_423199		SeqNo: 7014607		PrepDate: 01-Dec-2022		DF: 10	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Boron	5.664	0.200	5	1.128	90.7	75 - 125			
Sodium	109.8	2.00	100	30.06	79.7	75 - 125			

Client: Telesto Solutions Inc

Project: LRM-Knox Pit

WorkOrder: HS22111616

QC BATCH REPORT

Batch ID: 186828 (0)		Instrument: ICPMS07		Method: DISSOLVED METALS BY SW6020A (DISSOLVED)					
SD		Sample ID: HS22111003-02SD		Units: mg/L		Analysis Date: 02-Dec-2022 23:31			
Client ID:		Run ID: ICPMS07_423044		SeqNo: 7011906		PrepDate: 01-Dec-2022		DF: 5	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit Qual
Aluminum	0.01493	0.0500					0.01216	0 10	J
Antimony	ND	0.0100					0.000077	0 10	
Arsenic	0.002533	0.0100					0.000996	0 10	J
Barium	0.1111	0.0200					0.1113	0.218 10	
Beryllium	ND	0.0100					0.000109	0 10	
Cadmium	ND	0.0100					0.000044	0 10	
Calcium	147.6	2.50					160.8	8.22 10	
Chromium	ND	0.0200					0.00006	0 10	
Cobalt	ND	0.0250					0.000066	0 10	
Copper	ND	0.0100					0.000303	0 10	
Iron	ND	1.00					0.005452	0 10	
Lead	ND	0.0100					0.000095	0 10	
Lithium	0.007545	0.0250					0.005756	0 10	J
Magnesium	76.26	1.00					76.25	0.0165 10	
Manganese	ND	0.0250					0.000231	0 10	
Molybdenum	ND	0.0250					0.000178	0 10	
Nickel	ND	0.0100					0.00007	0 10	
Potassium	0.9884	1.00					1.007	1.81 10	J
Selenium	ND	0.0100					0.001001	0 10	
Silver	ND	0.0100					0.000035	0 10	
Thallium	ND	0.0100					0.000284	0 10	
Uranium	ND	0.0250					0.001906	0 10	
Vanadium	0.009474	0.0250					0.003148	0 10	J
Zinc	ND	0.0200					0.001385	0 10	

SD		Sample ID: HS22111003-02SD		Units: mg/L		Analysis Date: 05-Dec-2022 16:19			
Client ID:		Run ID: ICPMS07_423199		SeqNo: 7014606		PrepDate: 01-Dec-2022		DF: 50	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit Qual
Sodium	29.39	10.0					30.06	2.22 10	

The following samples were analyzed in this batch:

HS22111616-02	HS22111616-04	HS22111616-06	HS22111616-08
HS22111616-10	HS22111616-11		

Client: Telesto Solutions Inc
Project: LRM-Knox Pit
WorkOrder: HS22111616

QC BATCH REPORT

Batch ID: 186924 (0)		Instrument: HG04		Method: DISSOLVED MERCURY BY SW7470A (DISSOLVED)							
MBLK	Sample ID: MBLK-186924	Units: mg/L			Analysis Date: 05-Dec-2022 12:40						
Client ID:	Run ID: HG04_423189		SeqNo: 7014040		PrepDate: 05-Dec-2022		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual	
Mercury	ND	0.000200									
LCS	Sample ID: LCS-186924	Units: mg/L			Analysis Date: 05-Dec-2022 12:42						
Client ID:	Run ID: HG04_423189		SeqNo: 7014041		PrepDate: 05-Dec-2022		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual	
Mercury	0.00548	0.000200	0.005	0	110	80 - 120					
MS	Sample ID: HS22111616-02MS	Units: mg/L			Analysis Date: 05-Dec-2022 12:53						
Client ID: MW-06	Run ID: HG04_423189		SeqNo: 7014043		PrepDate: 05-Dec-2022		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual	
Mercury	0.00559	0.000200	0.005	0.000014	112	80 - 120					
MSD	Sample ID: HS22111616-02MSD	Units: mg/L			Analysis Date: 05-Dec-2022 12:57						
Client ID: MW-06	Run ID: HG04_423189		SeqNo: 7014044		PrepDate: 05-Dec-2022		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual	
Mercury	0.00518	0.000200	0.005	0.000014	103	80 - 120	0.00559	7.61	20		
The following samples were analyzed in this batch:											
HS22111616-02			HS22111616-04		HS22111616-06			HS22111616-08			
HS22111616-10			HS22111616-11								

Client: Telesto Solutions Inc

Project: LRM-Knox Pit

WorkOrder: HS22111616

QC BATCH REPORT

Batch ID: 187133 (0)		Instrument: UV-2450		Method: CYANIDE - SW9014					
MBLK	Sample ID: MBLK-187133	Units: mg/L		Analysis Date: 08-Dec-2022 13:31					
Client ID:	Run ID: UV-2450_423491	SeqNo: 7020969		PrepDate: 07-Dec-2022		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Cyanide, Total	ND	0.00500							
LCS	Sample ID: LCS-187133	Units: mg/L		Analysis Date: 08-Dec-2022 13:31					
Client ID:	Run ID: UV-2450_423491	SeqNo: 7020968		PrepDate: 07-Dec-2022		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Cyanide, Total	0.198	0.00500	0.2	0	99.0	80 - 120			
MS	Sample ID: HS22111545-01MS	Units: mg/L		Analysis Date: 08-Dec-2022 13:31					
Client ID:	Run ID: UV-2450_423491	SeqNo: 7020966		PrepDate: 07-Dec-2022		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Cyanide, Total	0.238	0.00500	0.2	0	119	80 - 120			
MSD	Sample ID: HS22111545-01MSD	Units: mg/L		Analysis Date: 08-Dec-2022 13:31					
Client ID:	Run ID: UV-2450_423491	SeqNo: 7020967		PrepDate: 07-Dec-2022		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Cyanide, Total	0.239	0.00500	0.2	0	120	80 - 120	0.238	0.419	20
The following samples were analyzed in this batch:									
HS22111616-02		HS22111616-04		HS22111616-06		HS22111616-08			
HS22111616-10		HS22111616-11							

Client: Telesto Solutions Inc
Project: LRM-Knox Pit
WorkOrder: HS22111616

QC BATCH REPORT

Batch ID: R422946 (0)		Instrument: WetChem_HS		Method: PH BY SM4500H+ B-2011					
DUP	Sample ID: HS22111626-01DUP	Units: pH Units		Analysis Date: 01-Dec-2022 15:08					
Client ID:	Run ID: WetChem_HS_422946		SeqNo: 7008865		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
pH	7.1	0.100					7.04	0.849	10
Temp Deg C @pH	20.1	0					20.1	0	10
The following samples were analyzed in this batch:									
HS22111616-01		HS22111616-03		HS22111616-05		HS22111616-07			
HS22111616-09		HS22111616-11							

Client: Telesto Solutions Inc

Project: LRM-Knox Pit

WorkOrder: HS22111616

QC BATCH REPORT

Batch ID: R423067 (0)		Instrument: Balance1		Method: TOTAL DISSOLVED SOLIDS BY SM2540C-2011						
MBLK	Sample ID: WBLK-120122	Units: mg/L			Analysis Date: 01-Dec-2022 16:53					
Client ID:	Run ID: Balance1_423067	SeqNo: 7011466		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)		ND	10.0							
LCS	Sample ID: WLCS-120122	Units: mg/L			Analysis Date: 01-Dec-2022 16:53					
Client ID:	Run ID: Balance1_423067	SeqNo: 7011467		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)		1072	10.0	1000	0	107	85 - 115			
DUP	Sample ID: HS22111613-01DUP	Units: mg/L			Analysis Date: 01-Dec-2022 16:53					
Client ID:	Run ID: Balance1_423067	SeqNo: 7011459		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)		1840	10.0				1880	2.15	5	
The following samples were analyzed in this batch:				HS22111616-01		HS22111616-03		HS22111616-05		HS22111616-07
				HS22111616-09		HS22111616-11				

Client: Telesto Solutions Inc
Project: LRM-Knox Pit
WorkOrder: HS22111616

QC BATCH REPORT

Batch ID: R423129 (0)		Instrument: ICS-Integrion		Method: NITRATE/NITRITE BY E300.0, REV 2.1, 1993					
MBLK	Sample ID: MBLK	Units: mg/L			Analysis Date: 03-Dec-2022 22:08				
Client ID:	Run ID: ICS-Integrion_423129		SeqNo: 7012702		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Nitrate/Nitrite (as N) ND 0.200									
LCS	Sample ID: LCS	Units: mg/L			Analysis Date: 03-Dec-2022 22:13				
Client ID:	Run ID: ICS-Integrion_423129		SeqNo: 7012703		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Nitrate/Nitrite (as N) 8.054 0.200 8 0 101 90 - 110									
MS	Sample ID: HS22111309-09MS	Units: mg/L			Analysis Date: 03-Dec-2022 22:24				
Client ID:	Run ID: ICS-Integrion_423129		SeqNo: 7012705		PrepDate:		DF: 10		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Nitrate/Nitrite (as N) 39.38 2.00 40 5.977 83.5 80 - 120									
MS	Sample ID: HS22111160-01MS	Units: mg/L			Analysis Date: 03-Dec-2022 23:53				
Client ID:	Run ID: ICS-Integrion_423129		SeqNo: 7012718		PrepDate:		DF: 10		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Nitrate/Nitrite (as N) 28.1 2.00 40 2.541 63.9 80 - 120 S									
MSD	Sample ID: HS22111309-09MSD	Units: mg/L			Analysis Date: 03-Dec-2022 22:29				
Client ID:	Run ID: ICS-Integrion_423129		SeqNo: 7012706		PrepDate:		DF: 10		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Nitrate/Nitrite (as N) 40.32 2.00 40 5.977 85.9 80 - 120 39.38 2.36 20									
MSD	Sample ID: HS22111160-01MSD	Units: mg/L			Analysis Date: 03-Dec-2022 23:58				
Client ID:	Run ID: ICS-Integrion_423129		SeqNo: 7012719		PrepDate:		DF: 10		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Nitrate/Nitrite (as N) 28.41 2.00 40 2.541 64.7 80 - 120 28.1 1.07 20 S									
The following samples were analyzed in this batch:									
HS22111616-02		HS22111616-04		HS22111616-06		HS22111616-08			
HS22111616-10		HS22111616-11							

Client: Telesto Solutions Inc
Project: LRM-Knox Pit
WorkOrder: HS22111616

QC BATCH REPORT

Batch ID: R423178 (0)		Instrument: ManTech01		Method: ALKALINITY BY SM 2320B-2011					
MBLK	Sample ID: WBLKW1-221205	Units: mg/L			Analysis Date: 05-Dec-2022 10:52				
Client ID:	Run ID: ManTech01_423178	SeqNo: 7013866		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qua
Alkalinity, Bicarbonate (As CaCO3)	ND	5.00							
Alkalinity, Carbonate (As CaCO3)	ND	5.00							
Alkalinity, Total (As CaCO3)	ND	5.00							
LCS	Sample ID: LCS1-221205	Units: mg/L			Analysis Date: 05-Dec-2022 11:01				
Client ID:	Run ID: ManTech01_423178	SeqNo: 7013867		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Alkalinity, Carbonate (As CaCO3)	983.2	5.00	1000	0	98.3	85 - 115			
Alkalinity, Total (As CaCO3)	1008	5.00	1000	0	101	85 - 115			
LCSD	Sample ID: LCSD1-221205	Units: mg/L			Analysis Date: 05-Dec-2022 11:10				
Client ID:	Run ID: ManTech01_423178	SeqNo: 7013868		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Alkalinity, Carbonate (As CaCO3)	983	5.00	1000	0	98.3	85 - 115	983.2	0.0224	20
Alkalinity, Total (As CaCO3)	1006	5.00	1000	0	101	85 - 115	1008	0.179	20
DUP	Sample ID: HS22111616-01DUP	Units: mg/L			Analysis Date: 05-Dec-2022 11:24				
Client ID: MW-06 RAW	Run ID: ManTech01_423178	SeqNo: 7013870		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Alkalinity, Bicarbonate (As CaCO3)	288.6	5.00					270	6.66	20
Alkalinity, Carbonate (As CaCO3)	ND	5.00					0	0	20
Alkalinity, Total (As CaCO3)	288.6	5.00					270	6.66	20
The following samples were analyzed in this batch:									
HS22111616-01		HS22111616-03		HS22111616-05		HS22111616-07			
HS22111616-09		HS22111616-11							

Client: Telesto Solutions Inc

Project: LRM-Knox Pit

WorkOrder: HS22111616

QC BATCH REPORT

Batch ID: R423674 (0)		Instrument: ICS-Integrion		Method: ANIONS BY E300.0, REV 2.1, 1993					
MBLK	Sample ID: MBLK	Units: mg/L		Analysis Date: 10-Dec-2022 08:23					
Client ID:	Run ID: ICS-Integrion_423674		SeqNo: 7025176		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	ND	0.500							
Fluoride	ND	0.100							
Sulfate	ND	0.500							

LCS	Sample ID: LCS	Units: mg/L		Analysis Date: 10-Dec-2022 08:28					
Client ID:	Run ID: ICS-Integrion_423674		SeqNo: 7025177		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	19.76	0.500	20	0	98.8	90 - 110			
Fluoride	4.319	0.100	4	0	108	90 - 110			
Sulfate	21.59	0.500	20	0	108	90 - 110			

MS	Sample ID: HS22111616-03MS	Units: mg/L		Analysis Date: 10-Dec-2022 08:59					
Client ID: MW-13 RAW	Run ID: ICS-Integrion_423674		SeqNo: 7025183		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	14.58	0.500	10	4.949	96.3	80 - 120			
Fluoride	2.501	0.100	2	0.3609	107	80 - 120			
Sulfate	56.8	0.500	10	48.95	78.5	80 - 120			SO

MS	Sample ID: HS22111616-01MS	Units: mg/L		Analysis Date: 10-Dec-2022 08:38					
Client ID: MW-06 RAW	Run ID: ICS-Integrion_423674		SeqNo: 7025179		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	17.21	0.500	10	7.762	94.5	80 - 120			
Fluoride	2.533	0.100	2	0.6104	96.1	80 - 120			
Sulfate	551.5	0.500	10	567.3	-158	80 - 120			SEO

Client: Telesto Solutions Inc

Project: LRM-Knox Pit

WorkOrder: HS22111616

QC BATCH REPORT

Batch ID: R423674 (0)		Instrument: ICS-Integrion		Method: ANIONS BY E300.0, REV 2.1, 1993					
MSD		Sample ID: HS22111616-03MSD		Units: mg/L		Analysis Date: 10-Dec-2022 09:04			
Client ID: MW-13 RAW		Run ID: ICS-Integrion_423674		SeqNo: 7025184		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	14.71	0.500	10	4.949	97.6	80 - 120	14.58	0.915	20
Fluoride	2.36	0.100	2	0.3609	100.0	80 - 120	2.501	5.78	20
Sulfate	57.05	0.500	10	48.95	81.1	80 - 120	56.8	0.449	20 O

MSD		Sample ID: HS22111616-01MSD		Units: mg/L		Analysis Date: 10-Dec-2022 08:43			
Client ID: MW-06 RAW		Run ID: ICS-Integrion_423674		SeqNo: 7025180		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	17.25	0.500	10	7.762	94.9	80 - 120	17.21	0.226	20
Fluoride	2.462	0.100	2	0.6104	92.6	80 - 120	2.533	2.84	20
Sulfate	550.4	0.500	10	567.3	-169	80 - 120	551.5	0.194	20 SEO

The following samples were analyzed in this batch:

HS22111616-01	HS22111616-03	HS22111616-05	HS22111616-07
HS22111616-09	HS22111616-11		

Client: Telesto Solutions Inc
Project: LRM-Knox Pit
WorkOrder: HS22111616

**QUALIFIERS,
ACRONYMS, UNITS**

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
mg/L	Milligrams per Liter

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	22-041-0	27-Mar-2023
California	2919 2022-2023	30-Apr-2023
Dept of Defense	L21-682	31-Dec-2023
Florida	E87611-36	30-Jun-2023
Illinois	2000322022-9	09-May-2023
Kansas	E-10352; 2022-2023	31-Jul-2023
Kentucky	123043, 2022-2023	30-Apr-2023
Louisiana	03087, 2022-2023	30-Jun-2023
Maryland	343, 2022-2023	30-Jun-2023
North Carolina	624-2022	31-Dec-2022
North Dakota	R-193 2022-2023	30-Apr-2023
Oklahoma	2022-141	31-Aug-2023
Texas	T104704231-22-29	30-Apr-2023
Utah	TX026932022-13	31-Jul-2023

Sample Receipt Checklist

Work Order ID: HS22111616

Date/Time Received: 30-Nov-2022 09:45

Client Name: Telesto

Received by: Corey Grandits

Completed By: /S/ Niles D. Ranchod	30-Nov-2022 12:17	Reviewed by: /S/ Tyler Monroe	01-Dec-2022 10:46
eSignature	Date/Time	eSignature	Date/Time

Matrices: WaterCarrier name: FedEx Priority Overnight

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☒
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☒
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	3 Page(s)
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Samplers name present on COC?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☒	No ☐	

Temperature(s)/Thermometer(s):

2.4C/1.9C UC/C IR #31

Cooler(s)/Kit(s):

Large Blue

Date/Time sample(s) sent to storage:

11/30/2022 12:30

Water - VOA vials have zero headspace?

Yes ☐ No ☐ No VOA vials submitted ☒

Water - pH acceptable upon receipt?

Yes ☒ No ☐ N/A ☐

pH adjusted?

Yes ☐ No ☒ N/A ☐

pH adjusted by:

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

Corrective Action:



ALS Loveland Service Center
965 E 11th Street
Loveland, CO 80537
Phone: 970-305-1648

CHAIN OF CUSTODY

Page 1 of 3

HS22111616

Telesto Solutions Inc
LRM-Knox Pit

Right Solution
Right Partner

Shipping to Samples to: _____



PROJECT NAME	LRM-Knox Pit		SAMPLER	Tim Gerken		TURNAROUND: _____													
PROJECT No.	360100		SITE ID			Parameter/Method Request for Analysis													
			EDD FORMAT			A	Wetchem												
COMPANY NAME	Telesto Solutions		PURCHASE ORDER			B	Dissolved Metals (Field Filtered)												
SEND REPORT TO	Tim Gerken		BILL TO COMPANY			C	No2 + No3												
ADDRESS	750 14th Street SW		INVOICE ATTN TO			D	Cyanide												
CITY / STATE / ZIP	Loveland CO 80537		ADDRESS			E													
PHONE	720-438-5513		CITY / STATE / ZIP			F													
FAX			PHONE			G													
E-MAIL	tgerken@telesto-inc.com		FAX			H													
			E-MAIL			I													
SAMPLE #	FIELD ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	MS/MSD	A	B	C	D	E	F	G	H	I		
1	MW-06-RAW	W	11/28/22	11:55	1	-			X										
2	MW-06-Filtered			11:55	1	2				X									
3	MW-06			11:55	1	3					X								
4	MW-06			11:55	1	4						X							
5	MW-13-RAW			2:20pm	1	-			X										
6	MW-13-Filtered			2:20	1	2				X									
7	MW-13			2:20	1	3					X								
8	MW-13			2:20	1	4						X							
9	MW-12-RAW			3:05pm	1	-			X										
10	MW-12-Filtered			5:05	1	2				X									

* MATRIX: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

DISPOSAL: By lab ☒ Return to Client ☐

Comments: 12/1 - Dissolved Metals LF:US Field Filtered CH PLVE 2.40 - 6 of 7 samples used	QC PACKAGE (check below)	RELINQUISHED BY	SIGNATURE	PRINTED NAME	DATE	TIME	COOLER TEMP
	LEVEL II (Standard QC)	RECEIVED BY		Tim Gerken	11/28/22	4:39	
	LEVEL III (Std QC + forms)	RELINQUISHED BY		Amy Kephardt	11/28/22	1400	3.4°C
	LEVEL IV (Std QC + forms + raw data)	RECEIVED BY		Amy Kephardt	11/29/22	1400	0.4°C
		RELINQUISHED BY					
		RECEIVED BY					



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965 E 11th Street
Loveland, CO 80537
Phone: 970-305-1648

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CHAIN OF CUSTODY

Page 2 of 3

HS22111616

Telesto Solutions Inc
LRM-Know Pit



Shipping to Samples to: _____

PROJECT NAME	LRM-Knox Pit	SAMPLER	Tim Gerken							TURNAROUND: ☐ 10 Day ☐ 5 Day ☐ 3 Day ☐ Other: _____								
PROJECT No.	360100	SITE ID								Parameter/Method Request for Analysis								
		EDD FORMAT								A	Wetchem							
		PURCHASE ORDER								B	Dissolved Metals (Field Filter)							
COMPANY NAME	Telesto	BILL TO COMPANY								C	No2 + No3							
SEND REPORT TO		INVOICE ATTN TO								D	cyanide							
ADDRESS	SAME AS	ADDRESS								E								
CITY / STATE / ZIP		CITY / STATE / ZIP								F								
PHONE	PAGE 2	PHONE								G								
FAX		FAX								H								
E-MAIL		E-MAIL								I								

SAMPLE #	FIELD ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	MS/MSD	A	B	C	D	E	F	G	H	I
1	MW-12	W	11/28/22	3:05	1	3											
2	MW-12			3:05	1	4					X						
3	02-MW-12-RAW			3:10 PM	1	-			X			X					
4	02-MW-12-Filtered			3:10	1	2				X							
5	02-MW-12			3:10	1	3					X						
6	02-MW-12			3:10	1	4											
7	MW-19-RAW			3:37 PM	1	-			X			X					
8	MW-19-Filtered			3:37	1	2				X							
9	MW-19			3:37	1	3					X						
10	MW-19			3:37	1	4						X					

* MATRIX: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

DISPOSAL: By lab ☒ Return to Client ☐

Comments:	QC PACKAGE (check below)	RELINQUISHED BY	SIGNATURE	PRINTED NAME	DATE	TIME	COOLER TEMP
	LEVEL II (Standard QC)	RECEIVED BY		Tim Gerken	11/28/22	4:39	
	LEVEL III (Std QC + forms)	RELINQUISHED BY		Amy Kephart	11/28/22	1040	3.4°C
	LEVEL IV (Std QC + forms + raw data)	RECEIVED BY		Amy Kephart	11/29/22	1400	0.4°C
		RELINQUISHED BY		Corey	11-29-22	0945	
Preservative: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4°C 9-5035		RECEIVED BY					



ALS Loveland Service Center
965 E 11th Street
Loveland, CO 80537
Phone: 970-305-1648

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CHAIN OF CUSTODY

Page 3 of 3

Shipping to Samples to: _____

HS22111616

Telesto Solutions Inc
LRM-Know Pit



PROJECT NAME	LRM - Knox Pit	SAMPLER	Tim Gerken							TURNAROUND: ☐ 10 Day ☐ 5 Day ☐ 3 Day ☐ Other: _____								
PROJECT No.	360600	SITE ID								Parameter/Method Request for Analysis								
		EDD FORMAT								A	Wetchem							
COMPANY NAME	Telesto	PURCHASE ORDER								B	Dissolved Metals (Field Filtered)							
SEND REPORT TO		BILL TO COMPANY								C	No2 + No3							
ADDRESS	SAME AS	INVOICE ATTN TO								D	Cyanide							
CITY / STATE / ZIP		ADDRESS								E								
PHONE	PAGE 1	CITY / STATE / ZIP								F								
FAX		PHONE								G								
E-MAIL		FAX								H								
		E-MAIL								I								
SAMPLE #	FIELD ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	MS/MSD	A	B	C	D	E	F	G	H	I	
1	03-Blank	W	11/28/22	3:45	1	—			X									
2	03-Blank	↓	↓	3:45	1	2				X								
3	03-Blank	↓	↓	3:45	1	3					X							
4	03-Blank	↓	↓	3:45	1	4						X						
5													X					
6																		
7																		
8																		
9																		
10																		

* MATRIX: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

DISPOSAL: By lab ☒ Return to Client ☐

Comments:	QC PACKAGE (check below) ☐ LEVEL II (Standard QC) ☐ LEVEL III (Std QC + forms) ☐ LEVEL IV (Std QC + forms + raw data)	RELINQUISHED BY	<i>Tim Gerken</i>	PRINTED NAME	Tim Gerken	DATE	11/28/22	TIME	4:39	COOLER TEMP	
		RECEIVED BY	<i>Amy Kepner</i>	Amy Kepner	11/28/22	1440	3.4°C				
		RELINQUISHED BY	<i>Amy Kepner</i>	Amy Kepner	11/29/22	1400	0.4°C				
		RECEIVED BY	<i>ROBERT L</i>		11-30-22	0944					
		RELINQUISHED BY									
		RECEIVED BY									

Preservative: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7- Other 8-4°C 9-5035

LG Blue

NOV 30 2022

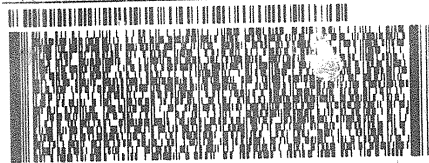
ORIGIN ID:GXVA (870) 305-1648
AMY KEPHART
ALS
965 E 11TH ST
LOVELAND, CO 80537
UNITED STATES US

SHIP DATE: 29NOV22
ACTWGT: 58.60 LB
CAD: 0487862/CAFE3618
DIMS: 24x14x15 IN
BILL SENDER

TO **SAMPLE RECEIVING**
ALS
10450 STANCLIFF RD
SUITE 210
HOUSTON TX 77099

LG Blue

PO: TELESTO



TRK# 6182 5243 3817
0201

WED - 30 NOV 10:30A
PRIORITY OVERNIGHT

XA SGRA

77099
TX-US IAH

