

Apr 7, 2020

Kinetic Reference No.: 5738-AB-R3

**Capilano University**

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**Attention: Natalia Skapski, Manager, Health & Safety and Emergency Preparedness**

**Reference: Lead Water Sampling – Birch Building, Sportsplex, Fitness Centre, Fir, Cedar,  
Arbutus & Library**

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## 1.0 Introduction

Kinetic OHS Services Ltd. (Kinetic OHS) has in accordance with your request, collected water samples from sinks and water fountains at the above mentioned buildings. It is our understanding that previously, lead water testing was performed in some buildings in the past. The results of the historical testing determined select locations to have elevated lead water concentration. The Health & Safety Department requested for a comprehensive water sampling survey to be performed throughout the above mentioned buildings to determine lead water concentration. The sampling was performed on February 23<sup>rd</sup>, March 1<sup>st</sup> & March 8<sup>th</sup>, 2020 when the school was unoccupied during the weekend.

Lead is a naturally occurring element found in small amounts in the earth's crust. Lead is a dense, odourless, bluish-grey heavy metal which is insoluble in water. Unlike other drinking water contaminants, lead is usually not in the water before it reaches the building. Lead can enter drinking water when plumbing materials that contain lead corrode including lead pipes, faucets and fixtures. Historically, lead was used extensively in service lines, solders and fittings. Water with high acidity or low mineral content especially corrodes pipes and fixtures thereby causing lead to leach from the systems.

Young children, infants, and fetuses are particularly vulnerable to lead because of the physical, behavioral and cognitive effects of lead. These effects can occur at a lower exposure level in children than in adults. Long term exposure to lead can cause it to accumulate in the bodies over time where it gets stored in the bones as a source of continual internal exposure. With age, when the bones demineralize, the bone tissue releases lead causing internal exposure. Lead can also cross the placental barrier thus pregnant women who are exposed to lead can also expose their fetus. Even at extremely low levels, exposure to lead can be toxic and very difficult to eliminate from the body.

Short term overexposure to lead can cause lead poisoning which includes symptoms such as abdominal pain, constipation, tiredness, headaches, irritability, loss of appetite, memory loss, weakness, and pain or tingling in the hands. Prolonged exposure to lead can cause abdominal pain, constipation, depression, forgetfulness, irritability, and nausea/sickness. People with prolonged exposure to lead are also at a risk for high blood pressure, heart disease, kidney disease, and reduced fertility. In children, lead exposure has been determined to cause adverse cognitive and behavioural effects especially reduction of intelligence quotient (IQ) scores.

Lead cannot be detected in water by sight, smell or taste. Discoloration episodes such as red water are likely to be accompanied by the release of accumulated contaminants including lead as dissolved lead adsorbs onto iron deposits in the lead service line. However, discoloration does not always accompany lead contamination. Hence, testing is the only way to detect lead in water.

## **2.0 Scope of Work**

Kinetic OHS collected water samples of the water from the sink faucets and water fountains of the Birch Building, Sportsplex, Fitness Center, Fir Building, Cedar Building, Arbutus Building and Library. The results were compared against the current Health Canada Guidelines for Canadian Drinking Water Quality.

## **3.0 Observations**

No unusual odours or discoloration of the water that would indicate contamination from other agents was noted during the sampling. The water from the taps was noted to be cold when initially opened.

## **4.0 Sampling Methodology**

The sampling protocol was designed to capture the entire water distribution system in the buildings sampled. The buildings were sampled using a Random Daytime Sampling (RDT) sampling protocol to capture typical exposures. The RDT sampling was performed by collecting two 125 mL samples in wide mouth sample bottles at a medium flow rate at each source. Refer to Appendix A for maps of sample location. To capture a worst case scenario, the samples were collected on a weekend morning with no prior flushing which allowed for a stagnation period. Two water samples were collected from each source and the lead concentration was determined by averaging the results from the two samples.

The maximum acceptable concentration (MAC) for total lead in drinking water according to the Health Canada Drinking Water Guideline is 0.005 mg/L (5 µg/L). The World Health Organization recommends that every effort should be made to reduce levels in drinking water to As Low As Reasonably Achievable (ALARA).

#### 4.0 Results

The results of the sampling are summarized in Tables 1 to 13. The averages of various samples were determined to exceed the maximum allowable concentration of lead. Refer to Appendix B for laboratory analytical results.

**Table 1: Lead Results**

Sample Number	Building	Sample Location	Lead Concentration (µg/L)	Average Lead Concentration (µg/L)
5738-34A	Birch	1 <sup>st</sup> Floor – Men’s Washroom #135	0.47	0.23
5738-34B	Birch		<0.20	
5738-35A	Birch	1 <sup>st</sup> Floor – Women’s Washroom #139	0.89	0.58
5738-35B	Birch		0.26	
5738-36A	Birch	1 <sup>st</sup> Floor Universal Washroom #138	2.2	1.3
5738-36B	Birch		0.53	
5738-37A	Birch	Bsmt – Costume Making 108 – Drinking Water Fixture	0.32	<0.20
5738-37B	Birch		<0.20	
5738-38A	Birch	Bsmt – Costume Making 108 – Sink Tap	0.50	0.25
5738-38B	Birch		<0.20	
5738-39A	Birch	Bsmt – Shop 107	0.87	1.8
5738-39B	Birch		2.8	
5738-40A	Birch	Bsmt – Dressing Room 010	1.5	1.1
5738-40B	Birch		0.68	
5738-41A	Birch	Bsmt – Dressing Room Washroom #012	1.6	1.1
5738-41B	Birch		0.66	
5738-42A	Birch	Bsmt – Dressing Room #007	3.4	2.3
5738-42B	Birch		1.2	
5738-43A	Birch	Bsmt – Dressing Room Washroom #008	1.7	1.1
5738-43B	Birch		0.57	
5738-44A	Birch	Bsmt – Theatre Washroom #007	0.88	0.57
5738-44B	Birch		0.26	
5738-45A	Birch	Atrium - #175 – Water Fill Sink	0.60	0.30
5738-45B	Birch		<0.20	
5738-46A	Birch	1 <sup>st</sup> Floor Men’s Washroom #181	1.1	0.67
5738-46B	Birch		0.21	
5738-47A	Birch	1 <sup>st</sup> Floor Women’s Washroom #182	0.89	0.57
5738-47B	Birch		0.25	

Notes

“<” = Less than detection limit

**Bold** = Maximum Acceptable Concentration (MAC) of 5 µg/L exceeded

**Table 2: Lead Results**

Sample Number	Building	Sample Location	Lead Concentration (µg/L)	Average Lead Concentration (µg/L)
5738-48A	Birch	1 <sup>st</sup> Floor – Tim Hortons Sink	<0.20	<0.20
5738-48B	Birch		<0.20	
5738-49A	Birch	1 <sup>st</sup> Floor – Subway Sink	0.42	0.35
5738-49B	Birch		0.28	
5738-50A	Birch	1 <sup>st</sup> Floor – Women's Washroom #156	0.99	0.77
5738-50B	Birch		0.56	
5738-51A	Birch	1 <sup>st</sup> Floor – Men's Washroom #156	1.9	1.4
5738-51B	Birch		0.95	
5738-52A	Birch	1 <sup>st</sup> Floor Asian Wok #151	0.71	0.62
5738-52B	Birch		0.53	
5738-53A	Birch	1 <sup>st</sup> Floor – Area #153 Large Sink	1.3	2.6
5738-53B	Birch		4.0	
5738-54A	Birch	1 <sup>st</sup> Floor – Area #153 Small Sink	0.24	<0.20
5738-54B	Birch		<0.20	
5738-55A	Birch	1 <sup>st</sup> Floor – Area #152	3.9	4.0
5738-55B	Birch		4.1	
5738-56A	Birch	1 <sup>st</sup> Floor – Asian Kitchen #151	1.6	1.1
5738-56B	Birch		0.70	
5738-57A	Birch	1 <sup>st</sup> Floor – Grill #150	2.0	3.2
5738-57B	Birch		4.4	
5738-58A	Birch	1 <sup>st</sup> Floor – Pizza/Pasta #148	2.3	2.5
5738-58B	Birch		2.7	
5738-59A	Birch	1 <sup>st</sup> Floor – Hot, Cold Production Area – Pot Sink	1.0	1.3
5738-59B	Birch		1.6	
5738-60A	Birch	1 <sup>st</sup> Floor – North Sink	0.58	0.44
5738-60B	Birch		0.30	
5738-61A	Birch	1 <sup>st</sup> Floor – South Sink	0.34	0.34
5738-61B	Birch		0.34	
5738-62A	Birch	2 <sup>nd</sup> Floor – Office #250	8.8	6.2
5738-62B	Birch		3.5	
5738-63A	Birch	2 <sup>nd</sup> Floor – Office #253	3.7	2.4
5738-63B	Birch		1.1	
5738-64A	Birch	2 <sup>nd</sup> Floor – Office #254	<b>8.4</b>	<b>6.3</b>
5738-64B	Birch		4.1	

Notes

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**Table 3: Lead Results**

Sample Number	Building	Sample Location	Lead Concentration (µg/L)	Average Lead Concentration (µg/L)
5738-65A	Birch	2 <sup>nd</sup> Floor – Room #257	12	25
5738-65B	Birch		38	
5738-66A	Birch	2 <sup>nd</sup> Floor – Women's Washroom #298	1.1	0.68
5738-66B	Birch		0.25	
5738-67A	Birch	2 <sup>nd</sup> Floor – Men's Washroom #297	0.72	0.53
5738-67B	Birch		0.33	
5738-68A	Birch	2 <sup>nd</sup> Floor – Outside Men's Washroom #297 – Water Fountain	0.36	0.34
5738-68B	Birch		0.32	
5738-69A	Birch	2 <sup>nd</sup> Floor – Outside Men's Washroom #297 – Water Bottle Fill Station	0.25	0.28
5738-69B	Birch		0.32	
5738-70A	Birch	2 <sup>nd</sup> Floor – Universal Washroom #218	0.82	0.52
5738-70B	Birch		0.22	
5738-71A	Birch	3 <sup>rd</sup> Floor – Women's Washroom #388	1.4	0.87
5738-71B	Birch		0.35	
5738-72A	Birch	3 <sup>rd</sup> Floor – Men's Washroom #387	1.3	0.89
5738-72B	Birch		0.51	
5738-73A	Birch	3 <sup>rd</sup> Floor – Outside Men's Washroom #387 – Water Fountain	0.22	0.24
5738-73B	Birch		0.26	
5738-74A	Birch	3 <sup>rd</sup> Floor – Outside Men's Washroom #387 – Bottle Fill Station	0.24	0.27
5738-74B	Birch		0.31	
5738-75A	Birch	3 <sup>rd</sup> Floor – Room #380 – Lab Sink	5.8	6.8
5738-75B	Birch		7.9	
5738-76A	Birch	3 <sup>rd</sup> Floor – Room #379- Lab Sink	6.8	6.9
5738-76B	Birch		7.0	
5738-77A	Birch	3 <sup>rd</sup> Floor – Universal Washroom #312	2.5	1.5
5738-77B	Birch		0.56	
5738-78A	Birch	4 <sup>th</sup> Floor – Universal Washroom #407	2.1	1.4
5738-78B	Birch		0.66	
5738-79A	Birch	4 <sup>th</sup> Floor Break Room #425	0.41	0.42
5738-79B	Birch		0.43	
5738-80A	Birch	4 <sup>th</sup> Floor – Men's Washroom #480	1.6	1.0
5738-80B	Birch		0.49	

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**Table 4: Lead Results**

Sample Number	Building	Sample Location	Lead Concentration (µg/L)	Average Lead Concentration (µg/L)
5738-81A	Birch	4 <sup>th</sup> Floor – Outside Men’s Washroom #480 – Water Fountain	0.36	0.55
5738-81B	Birch		0.75	
5738-82A	Birch	4 <sup>th</sup> Floor – Outside Men’s Washroom #480 – Bottle Fill Station	0.56	0.62
5738-82B	Birch		0.68	
5738-83A	Birch	4 <sup>th</sup> Floor – Women’s Washroom #481	0.40	0.81
5738-83B	Birch		1.2	
5738-84A	Sportsplex	1 <sup>st</sup> Floor – Area 100A – Water Fountain	0.47	0.37
5738-84B	Sportsplex		0.27	
5738-85A	Sportsplex	1 <sup>st</sup> Floor – Area 100A – Bottle Fill Station	0.32	0.69
5738-85B	Sportsplex		1.1	
5738-86A	Sportsplex	1 <sup>st</sup> Floor – Storage #107 – Water Cooler Fill Tap	<b>13</b>	<b>8.2</b>
5738-86B	Sportsplex		<b>3.3</b>	
5738-87A	Sportsplex	1 <sup>st</sup> Floor – Team Room B #105	<b>9.0</b>	<b>7.1</b>
5738-87B	Sportsplex		<b>5.2</b>	
5738-88A	Sportsplex	1 <sup>st</sup> Floor – Women’s Washroom #109	2.0	2.1
5738-88B	Sportsplex		2.2	
5738-89A	Sportsplex	1 <sup>st</sup> Floor – Female Locker Room #104	1.1	0.76
5738-89B	Sportsplex		0.42	
5738-90A	Sportsplex	1 <sup>st</sup> Floor – Men’s Washroom #110	1.7	2.0
5738-90B	Sportsplex		2.2	
5738-91A	Sportsplex	1 <sup>st</sup> Floor – Male Locker Room #101	4.4	2.8
5738-91B	Sportsplex		1.3	
5738-92A	Sportsplex	1 <sup>st</sup> Floor – Team Room A #102	4.5	2.7
5738-92B	Sportsplex		0.86	
5738-93A	Sportsplex	1 <sup>st</sup> Floor – Washroom #112	<b>8.4</b>	4.8
5738-93B	Sportsplex		1.2	
5738-94A	Sportsplex	1 <sup>st</sup> Floor – Room #100B – Water Fountain	0.36	<0.20
5738-94B	Sportsplex		<0.20	
5738-95A	Sportsplex	1 <sup>st</sup> Floor – Room #100B – Water Bottle Fill Station	<0.20	<0.20
5738-95B	Sportsplex		<0.20	
5738-96A	Sportsplex	1 <sup>st</sup> Floor – Room #111A	<b>10</b>	<b>6.7</b>
5738-96B	Sportsplex		3.5	
5738-97A	Sportsplex	1 <sup>st</sup> Floor – Room 120A	0.74	0.37
5738-97B	Sportsplex		<0.20	

Notes

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**Table 5: Lead Results**

Sample Number	Building	Sample Location	Lead Concentration (µg/L)	Average Lead Concentration (µg/L)
5738-98A	Fitness Centre	Ground Floor – Men's	<b>6.3</b>	4.0
5738-98B	Fitness Centre	Washroom #104 – Water Fountain	1.6	
5738-99A	Fitness Centre	Ground Floor – Men's	1.4	1.3
5738-99B	Fitness Centre	Washroom #104 – Bottle Fill Station	1.2	
5738-100A	Fitness Centre	Ground Floor – Men's	0.45	0.51
5738-100B	Fitness Centre	Washroom #104 – Sink	0.56	
5738-101A	Fitness Centre	Main Floor – Women's	3.1	1.8
5738-101B	Fitness Centre	Washroom #113 – Water Fountain	0.41	
5738-102A	Fitness Centre	Main Floor – Women's	0.52	0.49
5738-102B	Fitness Centre	Washroom #113 – Bottle Fill Station	0.46	
5738-103A	Fitness Centre	Main Floor – Women's	0.97	1.0
5738-103B	Fitness Centre	Washroom #113 – Sink	1.1	
5738-104A	Fir	1 <sup>st</sup> Floor – Hallway 100E –	<0.20	<0.20
5738-104B	Fir	Water Fountain	<0.20	
5738-105A	Fir	1 <sup>st</sup> Floor – Hallway 100E –	<0.20	<0.20
5738-105B	Fir	Bottle Fill Station	<0.20	
5738-106A	Fir	1 <sup>st</sup> Floor – Instrument	4.6	4.5
5738-106B	Fir	Storage Room #102	4.4	
5738-107A	Fir	1 <sup>st</sup> Floor – Music Therapy	<b>110</b>	<b>110</b>
5738-107B	Fir	Room #119	<b>100</b>	
5738-108A	Fir	1 <sup>st</sup> Floor – Men's	0.33	0.54
5738-108B	Fir	Washroom #151 – Drinking Water Tap	0.75	
5738-109A	Fir	1 <sup>st</sup> Floor – Men's	<b>17</b>	<b>9.5</b>
5738-109B	Fir	Washroom #151 – Sink Tap	2.3	
5738-110A	Fir	1 <sup>st</sup> Floor – Women's	0.21	<0.20
5738-110B	Fir	Washroom #152 – Drinking Water Tap	<0.20	
5738-111A	Fir	1 <sup>st</sup> Floor – Women's	0.85	0.43
5738-111B	Fir	Washroom #152 – Sink Tap	<0.20	

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**Table 6: Lead Results**

Sample Number	Building	Sample Location	Lead Concentration (µg/L)	Average Lead Concentration (µg/L)
5738-112A	Fir	2 <sup>nd</sup> Floor – Women’s Washroom #221	1.0	0.91
5738-112B	Fir		0.79	
5738-113A	Fir	2 <sup>nd</sup> Floor – Men’s Washroom #220	1.6	1.6
5738-113B	Fir		1.5	
5738-114A	Fir	2 <sup>nd</sup> Floor – Hallway 200C – Water Fountain	<0.20	<0.20
5738-114B	Fir		<0.20	
5738-115A	Fir	2 <sup>nd</sup> Floor – Hallway 200C – Bottle Fill Station	<0.20	<0.20
5738-115B	Fir		<0.20	
5738-116A	Fir	2 <sup>nd</sup> Floor – Health Lab #204 – Table Sink	0.80	1.5
5738-116B	Fir		2.1	
5738-117A	Fir	2 <sup>nd</sup> Floor – Health Lab #204 – Lunchroom Sink	<b>6.1</b>	4.4
5738-117B	Fir		2.7	
5738-118A	Fir	4 <sup>th</sup> Floor – Women’s Washroom #472	1.4	0.70
5738-118B	Fir		<0.20	
5738-119A	Fir	4 <sup>th</sup> Floor – Men’s Washroom #474	0.74	0.53
5738-119B	Fir		0.31	
5738-120A	Fir	4 <sup>th</sup> Floor – Rub Hallway – Water Fountain	<0.20	<0.20
5738-120B	Fir		<0.20	
5738-121A	Fir	4 <sup>th</sup> Floor – Rub Hallway – Bottle Fill Station	<0.20	<0.20
5738-121B	Fir		<0.20	
5738-122A	Fir	4 <sup>th</sup> Floor – Room #459	0.39	<0.20
5738-122B	Fir		<0.20	
5738-123A	Fir	4 <sup>th</sup> Floor – Room #418	<0.20	<0.20
5738-123B	Fir		<0.20	
5738-124A	Fir	4 <sup>th</sup> Floor – Storage #473	2.0	1.1
5738-124B	Fir		0.31	
5738-125A	Fir	5 <sup>th</sup> Floor – Women’s Washroom #561	1.0	0.52
5738-125B	Fir		<0.20	
5738-126A	Fir	5 <sup>th</sup> Floor – Men’s Washroom #560	1.1	0.71
5738-126B	Fir		0.30	
5738-127A	Fir	5 <sup>th</sup> Floor – Hallway – Water Fountain	<0.20	<0.20
5738-127B	Fir		<0.20	
5738-128A	Fir	5 <sup>th</sup> Floor – Hallway – Bottle Fill Station	<0.20	<0.20
5738-128B	Fir		<0.20	
5738-129A	Fir	5 <sup>th</sup> Floor – Staffroom #548	3.2	1.7
5738-129B	Fir		0.30	

Noes

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**Table 7: Lead Results**

Sample Number	Building	Sample Location	Lead Concentration (µg/L)	Average Lead Concentration (µg/L)
5738-130A	Fir	2 <sup>nd</sup> Floor – Café Wall Sink	3.6	2.1
5738-130B	Fir		0.58	
5738-131A	Fir	2 <sup>nd</sup> Floor – Cade Counter Sink	0.60	0.56
5738-131B	Fir		0.52	
5738-132A	Fir	3 <sup>rd</sup> Floor – Women's Washroom #332	0.94	0.93
5738-132B	Fir		0.92	
5738-133A	Fir	3 <sup>rd</sup> Floor – Men's Washroom #331	1.2	0.81
5738-133B	Fir		0.40	
5738-134A	Fir	3 <sup>rd</sup> Floor – Hallway – Water Fountain	<0.20	<0.20
5738-134B	Fir		<0.20	
5738-135A	Fir	3 <sup>rd</sup> Floor – Hallway – Bottle Fill Station	<0.20	<0.20
5738-135B	Fir		<0.20	
5738-136A	Fir	3 <sup>rd</sup> Floor – Greenhouse #301B	<b>130</b>	<b>91</b>
5738-136B	Fir		<b>53</b>	
5738-137A	Fir	3 <sup>rd</sup> Floor – Biology Lab #301 – Side Sink	<b>110</b>	<b>110</b>
5738-137B	Fir		<b>110</b>	
5738-138A	Fir	3 <sup>rd</sup> Floor – Biologu Lab #301 – Bench Sink	<b>16</b>	<b>8.7</b>
5738-138B	Fir		<b>1.5</b>	
5738-139A	Fir	3 <sup>rd</sup> Floor – Chemical/Equipment Room #301A	<b>450</b>	<b>370</b>
5738-139B	Fir		<b>300</b>	
5738-140A	Fir	3 <sup>rd</sup> Floor – Lab Prep Area #303A – Bench Sink	<b>5.8</b>	4.0
5738-140B	Fir		2.2	
5738-141A	Fir	3 <sup>rd</sup> Floor – Live Animal Room/Prep Room #303B	<b>7.3</b>	4.8
5738-141B	Fir		2.3	
5738-142A	Fir	3 <sup>RD</sup> Floor – Biology Room #303 – DW Lab Sink	4.9	<b>5.1</b>
5738-142B	Fir		<b>5.3</b>	
5738-143A	Fir	3 <sup>rd</sup> Floor – Biology Lab #303 – Instructor's Desk Sink	<b>120</b>	<b>99</b>
5738-143B	Fir		<b>76</b>	
5738-144A	Fir	3 <sup>rd</sup> Floor – Preserved Specimen Room #307	<b>60</b>	<b>42</b>
5738-144B	Fir		<b>24</b>	
5738-145A	Fir	3 <sup>rd</sup> Floor – Office #309A	<b>13</b>	<b>6.9</b>
5738-145B	Fir		<b>1.2</b>	
5738-146A	Fir	3 <sup>rd</sup> Floor – Biology Lab #309 – Bench Sink	<b>92</b>	<b>53</b>
5738-146B	Fir		<b>13</b>	

Noes

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**Table 8: Lead Results**

Sample Number	Building	Sample Location	Lead Concentration (µg/L)	Average Lead Concentration (µg/L)
5738-147A	Fir	3 <sup>rd</sup> Floor – Biology Lab #309 – Instructor’s Desk Sink	<b>19</b>	<b>11</b>
5738-147B	Fir		3.4	
5738-148A	Fir	3 <sup>rd</sup> Floor – Physics Lab #302 – Instructors Desk Sink	<b>6.0</b>	3.5
5738-148B	Fir		0.96	
5738-149A	Fir	3 <sup>rd</sup> Floor – Physics Lab #302 – Back Bench Sink	<b>16</b>	<b>9.6</b>
5738-149B	Fir		3.7	
5738-150A	Fir	3 <sup>rd</sup> Floor – Physics Pre Room #302D	<b>13</b>	<b>9.1</b>
5738-150B	Fir		<b>5.5</b>	
5738-151A	Fir	3 <sup>rd</sup> Floor Chem Lab #306 – Bench Sink	<b>39</b>	<b>44</b>
5738-151B	Fir		<b>49</b>	
5738-152A	Fir	3 <sup>rd</sup> Floor – Chem Lab #306 – Instructor’s Bench Sink	<b>5.6</b>	3.2
5738-152B	Fir		0.75	
5738-153A	Fir	3 <sup>rd</sup> Floor – Prep Area Sink	<b>9.7</b>	<b>5.6</b>
5738-153B	Fir		1.5	
5738-154A	Fir	3 <sup>rd</sup> Floor – Prep Area #314	<b>560</b>	<b>1400</b>
5738-154B	Fir		<b>2200</b>	
5738-155A	Fir	3 <sup>rd</sup> Floor – Chem Lab #308 – Bench Sink	<b>15</b>	<b>46</b>
5738-155B	Fir		<b>77</b>	
5738-156A	Fir	3 <sup>rd</sup> Floor – Chem Lab #308 – Instructor’s Sink	<b>7.8</b>	4.6
5738-156B	Fir		1.5	
5738-157A	Fir	3 <sup>rd</sup> Floor – Chem Lab #310 – Bench Sink	<b>16</b>	<b>11</b>
5738-157B	Fir		<b>7.2</b>	
5738-158A	Fir	3 <sup>rd</sup> Floor – Chem Lab #310 – Instructor’s Bench Sink	<b>15</b>	<b>11</b>
5738-158B	Fir		<b>7.1</b>	
5738-159A	Fir	3 <sup>rd</sup> Floor – Storage #314C	<b>48</b>	<b>67</b>
5738-159B	Fir		<b>86</b>	
5738-160A	Cedar	1 <sup>st</sup> Floor – Room #129	1.8	1.6
5738-160B	Cedar		1.3	
5738-161A	Cedar	1 <sup>st</sup> Floor – Room #131	<b>12</b>	<b>12</b>
5738-161B	Cedar		<b>13</b>	

Notes

“<” = Less than detection limit

**Bold** = Maximum Acceptable Concentration (MAC) of 5 µg/L exceeded

**Table 9: Lead Results**

Sample Number	Building	Sample Location	Lead Concentration (µg/L)	Average Lead Concentration (µg/L)
5738-162A	Cedar	1 <sup>st</sup> Floor – Women's Washroom #133 – Drinking Water Tap	0.92	0.75
5738-162B	Cedar		0.58	
5738-163A	Cedar	1 <sup>st</sup> Floor – Women's Washroom #133 – Sink	1.0	1.7
5738-163B	Cedar		2.4	
5738-164A	Cedar	1 <sup>st</sup> Floor – Hallway – Water Fountain	1.1	0.81
5738-164B	Cedar		0.52	
5738-165A	Cedar	1 <sup>st</sup> Floor – Hallway – Bottle Fill Station	0.63	0.61
5738-165B	Cedar		0.60	
5738-166A	Cedar	1 <sup>st</sup> Floor – Men's Washroom #142 – Drinking Water Tap	0.97	0.63
5738-166B	Cedar		0.29	
5738-167A	Cedar	1 <sup>st</sup> Floor – Men's Washroom #142 – Sink	2.2	2.4
5738-167B	Cedar		2.7	
5738-168A	Cedar	1 <sup>st</sup> Floor – Room #144 – ECE Prep	0.40	0.33
5738-168B	Cedar		0.25	
5738-169A	Cedar	2 <sup>nd</sup> Floor – Men's Washroom #239 – Drinking Water Tap	3.4	2.3
5738-169B	Cedar		1.2	
5738-170A	Cedar	2 <sup>nd</sup> Floor – Men's Washroom #239 – Sink	1.8	2.0
5738-170B	Cedar		2.2	
5738-171A	Cedar	2 <sup>nd</sup> Floor – Class Room #238	<b>11</b>	<b>7.5</b>
5738-171B	Cedar		3.7	
5738-172A	Cedar	2 <sup>nd</sup> Floor – Geography Prep Room #241	<b>18</b>	<b>10</b>
5738-172B	Cedar		2.9	
5738-173A	Cedar	2 <sup>nd</sup> Floor – Geology Prep Area #236	<b>1500</b>	<b>750</b>
5738-173B	Cedar		<b>35</b>	
5738-174A	Cedar	2 <sup>nd</sup> Floor – Hallway – Drinking Fountain	0.77	0.49
5738-174B	Cedar		0.21	
5738-175A	Cedar	2 <sup>nd</sup> Floor – Hallway – Bottle Fill Station	0.28	<0.20
5738-175B	Cedar		<0.20	
5738-176A	Cedar	2 <sup>nd</sup> Floor – Women's Washroom #230 – Drinking Fountain	1.1	0.92
5738-176B	Cedar		0.76	
5738-177A	Cedar	2 <sup>nd</sup> Floor – Women's Washroom #230	2.0	1.7
5738-177B	Cedar		1.3	

Noes

"<" = Less than detection limit

**Bold** = Maximum Acceptable Concentration (MAC) of 5 µg/L exceeded

**Table 10: Lead Results**

Sample Number	Building	Sample Location	Lead Concentration (µg/L)	Average Lead Concentration (µg/L)
5738-178A	Cedar	2 <sup>nd</sup> Floor – Anthropology Lab #228	<b>8.3</b>	<b>5.0</b>
5738-178B	Cedar		1.8	
5738-179A	Cedar	3 <sup>rd</sup> Floor – Men’s Washroom #332 – Drinking Water Tap	0.82	0.60
5738-179B	Cedar		0.39	
5738-180A	Cedar	3 <sup>rd</sup> Floor – Men’s Washroom #332 – Sink	0.86	0.67
5738-180B	Cedar		0.48	
5738-181A	Cedar	3 <sup>rd</sup> Floor – Hallway – Water Fountain	2.0	1.3
5738-181B	Cedar		0.52	
5738-182A	Cedar	3 <sup>rd</sup> Floor – Hallway – Bottle Fill Station	0.60	0.54
5738-182B	Cedar		0.49	
5738-183A	Cedar	3 <sup>rd</sup> Floor – Washroom #331	1.7	1.2
5738-183B	Cedar		0.76	
5738-184A	Cedar	3 <sup>rd</sup> Floor – Women’s Washroom #357 – Drinking Tap	2.1	-
5738-184B	Cedar		-	
5738-185A	Cedar	3 <sup>rd</sup> Floor – Women’s Washroom #357 – Sink	3.4	2.1
5738-185B	Cedar		0.82	
5738-186A	Cedar	3 <sup>rd</sup> Floor – Staff Room Storage #350	4.6	3.5
5738-186B	Cedar		2.5	
5738-187A	Cedar	3 <sup>rd</sup> Floor – Storage Copy Room #339	<b>13</b>	<b>18</b>
5738-187B	Cedar		<b>23</b>	
5738-190A	Arbutus	1 <sup>st</sup> Floor – All Gender Washroom #009	1.3	1.5
5738-190B	Arbutus		1.7	
5738-191A	Arbutus	1 <sup>st</sup> Floor – Women’s Washroom #028	0.60	0.76
5738-191B	Arbutus		0.93	
5738-192A	Arbutus	1 <sup>st</sup> Floor – Men’s Washroom #029	0.95	0.86
5738-192B	Arbutus		0.77	
5738-193A	Arbutus	1 <sup>st</sup> Floor – Hallway – Water Fountain	0.31	0.43
5738-193B	Arbutus		0.55	
5738-194A	Arbutus	1 <sup>st</sup> Floor – Hallway – Bottle Fill Station	0.43	0.36
5738-194B	Arbutus		0.28	
5738-195A	Arbutus	1 <sup>st</sup> Floor – First Aid Room #016	<b>15</b>	<b>8.7</b>
5738-195B	Arbutus		2.0	

Notes

“<” = Less than detection limit

**Bold** = Maximum Acceptable Concentration (MAC) of 5 µg/L exceeded

**Table 11: Lead Results**

Sample Number	Building	Sample Location	Lead Concentration (µg/L)	Average Lead Concentration (µg/L)
5738-196A	Arbutus	1 <sup>st</sup> Floor – Print Room #034	0.89	3.8
5738-196B	Arbutus		<b>6.7</b>	
5738-197A	Arbutus	1 <sup>st</sup> Floor – Theatre Dressing Room #003	<b>5.4</b>	<b>8.5</b>
5738-197B	Arbutus		<b>12</b>	
5738-198A	Arbutus	Main Floor – Women’s Washroom #128	0.38	0.35
5738-198B	Arbutus		0.32	
5738-199A	Arbutus	Main Floor – Women’s Washroom #129	1.1	1.3
5738-199B	Arbutus		1.6	
5738-200A	Arbutus	Main Floor – Hallway – Water Fountain	<0.20	0.27
5738-200B	Arbutus		0.55	
5738-201A	Arbutus	Main Floor – Hallway – Bottle Fill Station	<0.20	<0.20
5738-201B	Arbutus		<0.20	
5738-202A	Arbutus	Main Floor – Break Room #120D	0.25	0.28
5738-202B	Arbutus		0.31	
5738-203A	Arbutus	2 <sup>nd</sup> Floor – Women’s Washroom #210	0.62	0.62
5738-203B	Arbutus		0.62	
5738-204A	Arbutus	2 <sup>nd</sup> Floor – Men’s Washroom #211	0.87	0.79
5738-204B	Arbutus		0.71	
5738-205A	Arbutus	2 <sup>nd</sup> Floor – Work Room #205	<b>89</b>	<b>100</b>
5738-205B	Arbutus		<b>110</b>	
5738-206A	Arbutus	2 <sup>nd</sup> Floor – Surface Design Lab #201 – 1 <sup>st</sup> Sink	4.1	4.6
5738-206B	Arbutus		<b>5.1</b>	
5738-207A	Arbutus	2 <sup>nd</sup> Floor – Surface Design Lab #201 – 2 <sup>nd</sup> Sink	3.5	2.3
5738-207B	Arbutus		1.1	
5738-208A	Arbutus	2 <sup>nd</sup> Floor – Classroom #206	<b>15</b>	<b>8.6</b>
5738-208B	Arbutus		2.3	
5738-209A	Arbutus	3 <sup>rd</sup> Floor – Women’s Washroom #327	0.63	0.65
5738-209B	Arbutus		0.68	
5738-210A	Arbutus	3 <sup>rd</sup> Floor – Men’s Washroom #326	0.76	0.65
5738-210B	Arbutus		0.55	
5738-211A	Arbutus	3 <sup>rd</sup> Floor – Hallway – Water Fountain	0.64	1.9
5738-211B	Arbutus		3.2	
5738-212A	Arbutus	3 <sup>rd</sup> Floor – Hallway – Bottle Fill Station	0.65	0.71
5738-212B	Arbutus		0.76	

Notes

“<” = Less than detection limit

**Bold** = Maximum Acceptable Concentration (MAC) of 5 µg/L exceeded

**Table 12: Lead Results**

Sample Number	Building	Sample Location	Lead Concentration (µg/L)	Average Lead Concentration (µg/L)
5738-213A	Arbutus	3 <sup>rd</sup> Floor – Graphic Design & Illustration Studio	1.6	2.2
5738-213B	Arbutus		2.8	
5738-214A	Library	1 <sup>st</sup> Floor – CSU Lounge #195	<0.20	<0.20
5738-214B	Library		<0.20	
5738-215A	Library	1 <sup>st</sup> Floor – Office #196C	0.48	0.43
5738-215B	Library		0.38	
5738-216A	Library	1 <sup>st</sup> Floor – Women’s Washroom #122 – Water Tap	0.67	0.47
5738-216B	Library		0.26	
5738-217A	Library	1 <sup>st</sup> Floor – Women’s Washroom #122 – Sink	3.9	2.5
5738-217B	Library		1.1	
5738-218A	Library	1 <sup>st</sup> Floor – Men’s Washroom #120	<b>13</b>	<b>7.6</b>
5738-218B	Library		2.1	
5738-219A	Library	1 <sup>st</sup> Floor – Hallway – Water Fountain	0.24	<0.20
5738-219B	Library		<0.20	
5738-220A	Library	1 <sup>st</sup> Floor – Hallway – Bottle Fill Station	<0.20	<0.20
5738-220B	Library		<0.20	
5738-221A	Library	1 <sup>st</sup> Floor – Staff Room #112E	0.38	0.54
5738-221B	Library		0.71	
5738-222A	Library	2 <sup>nd</sup> Floor – Men’s Washroom #210	0.63	0.50
5738-222B	Library		0.37	
5738-223A	Library	2 <sup>nd</sup> Floor – Men’s Washroom #210	0.79	0.76
5738-223B	Library		0.74	
5738-224A	Library	2 <sup>nd</sup> Floor – Water Fountain	0.37	<0.20
5738-224B	Library		<0.20	
5738-225A	Library	2 <sup>nd</sup> Floor – Bottle Fill Station	<0.20	<0.20
5738-225B	Library		<0.20	
5738-226A	Library	2 <sup>nd</sup> Floor – Women’s Washroom #209	0.37	0.41
5738-226B	Library		0.44	
5738-227A	Library	3 <sup>rd</sup> Floor – Men’s Washroom #313 – 1 <sup>st</sup> Sink	<0.20	0.25
5738-227B	Library		0.49	
5738-228A	Library	3 <sup>rd</sup> Floor – Men’s Washroom #313 – Middle Sink	<0.20	0.37
5738-228B	Library		0.74	

Notes

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**Table 13: Lead Results**

Sample Number	Building	Sample Location	Lead Concentration (µg/L)	Average Lead Concentration (µg/L)
5738-229A	Library	3 <sup>rd</sup> Floor – Hallway – Water Fountain	1.7	1.0
5738-229B	Library		0.36	
5738-230A	Library	3 <sup>rd</sup> Floor – Hallway – Bottle Fill Station	0.30	0.31
5738-230B	Library		0.33	
5738-231A	Library	3 <sup>rd</sup> Floor – Women’s Washroom #312 – 1 <sup>st</sup> Sink	0.41	0.21
5738-231B	Library		<0.20	
5738-232A	Library	3 <sup>rd</sup> Floor – Women’s Washroom #312 – Middle Sink	1.1	0.56
5738-232B	Library		<0.20	
5738-233A	Library	3 <sup>rd</sup> Floor – Kitchen #323	1.6	<b>13</b>
5738-233B	Library		<b>24</b>	

Notes

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## 5.0 Conclusions & Recommendations

The results of the water sample showed the multiple sample locations to have elevated levels of lead in water. These exceedances in the MAC must be investigated and followed by the appropriate corrective action. The drinking water sources where elevated lead levels have been found should immediately be put out of service. Building should be marked with a "Do not drink from tap" signage to alert the users and prevent them from using the water for cooking or drinking use. Hand washing does not pose a risk of exposure to lead because lead in water is not readily absorbed through the human skin via dermal exposure.

It must be noted that municipal treatment of water to remove lead may not be the most effective strategy because lead is most likely released from corrosion in the distribution and plumbing systems. Moreover, treatment technologies can change the water quality parameters that impact lead release thereby increasing lead in drinking water. Hence, long term strategies to mitigate exposure to lead at the sources determined to have elevated lead concentrations must focus on controlling corrosion within the water distribution and plumbing system. The following are additional recommendations based on the sample results:

- Service lines, solders and fittings may contain lead, thereby leaching it into the water due to corrosion of these systems. These systems must be inspected and remediated in accordance with the Government of Canada Guidance on Controlling Corrosion in Drinking Water Distribution Systems.
- Many studies have determined drinking water fountains and faucets to be the major contributors of elevated lead concentrations in non-residential buildings. Hence, identifying and replacing problematic components with non-lead ones is the most effective mitigation strategy.
- It is unlikely that the service line for the buildings where elevated lead levels were identified is made from lead because in that case, other sources of water in those buildings would also show elevated lead levels. However, it should be confirmed whether the service line that connects the building to the water main is made from lead. Replace lead service lines with non-lead service lines as required.
- In schools and large buildings, flushing of the cold water tap has not been found to sufficiently reduce lead exposure. To determine whether flushing would be a useful mechanism, full flush samples can be collected and compared against the no flush samples at the sources identified to have elevated lead concentration.

Health Canada Guideline of Drinking Water Quality recommends that the total lead in schools and daycares be monitored at least once a year at each of the drinking water fountains or cold water taps where water may be used for drinking or food preparation. If lead issues have been identified and remediated, the monitoring schedule can be reduced.



## 6.0 Limitations

This report has been prepared in accordance with established Industrial Hygiene practices. It is intended for the exclusive use of the client to assist with complying with the current accepted industry guidelines for the assessment and remediation of lead. The use of this document for any other purposes is at the sole risk of the user.

We thank you for having Kinetic OHS Services conduct this work for you. Should you have any questions, please contact us at your earliest convenience.

Sincerely,

**Kinetic OHS Services Ltd.**



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Aneet Bains, MSc (Occ. Hygiene)  
*Industrial Hygienist*  
Site Investigation & Report  
Email: [aneet@kineticohs.com](mailto:aneet@kineticohs.com)  
Cell: 604-832-0343

*File Reference: 5738-AB-R3 - Capilano University Birch & Sportsplex - Lead Water Sampling*

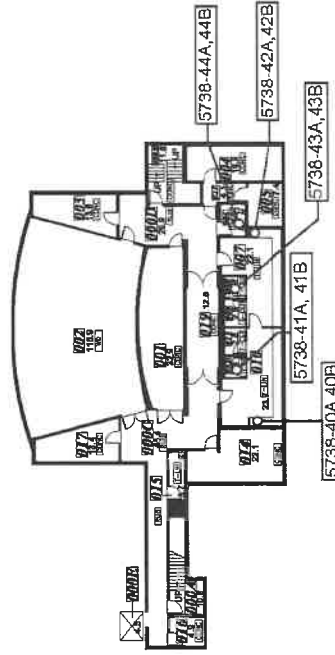
**Appendix A – Maps of Sample Locations**  
**BIRCH BUILDING**



**CAPILANO**  
**UNIVERSITY**

2055 PURCELL WAY  
 NORTH VANCOUVER, BC  
 CANADA V7J 3H5

**AREA PLAN**  
 Revised: April 2017  
 Scale 1:296 (17"x11")



**FLOOR COVERINGS**

CPT	CARPET
E-GPT	CARPET TILE
E-GES	CERAMIC TILE
CONC	CONCRETE
LIN	LINOLEUM
E-LIN	LINOLEUM TILE
MORA	MORA
RUB	RUBBER
WD	WOOD



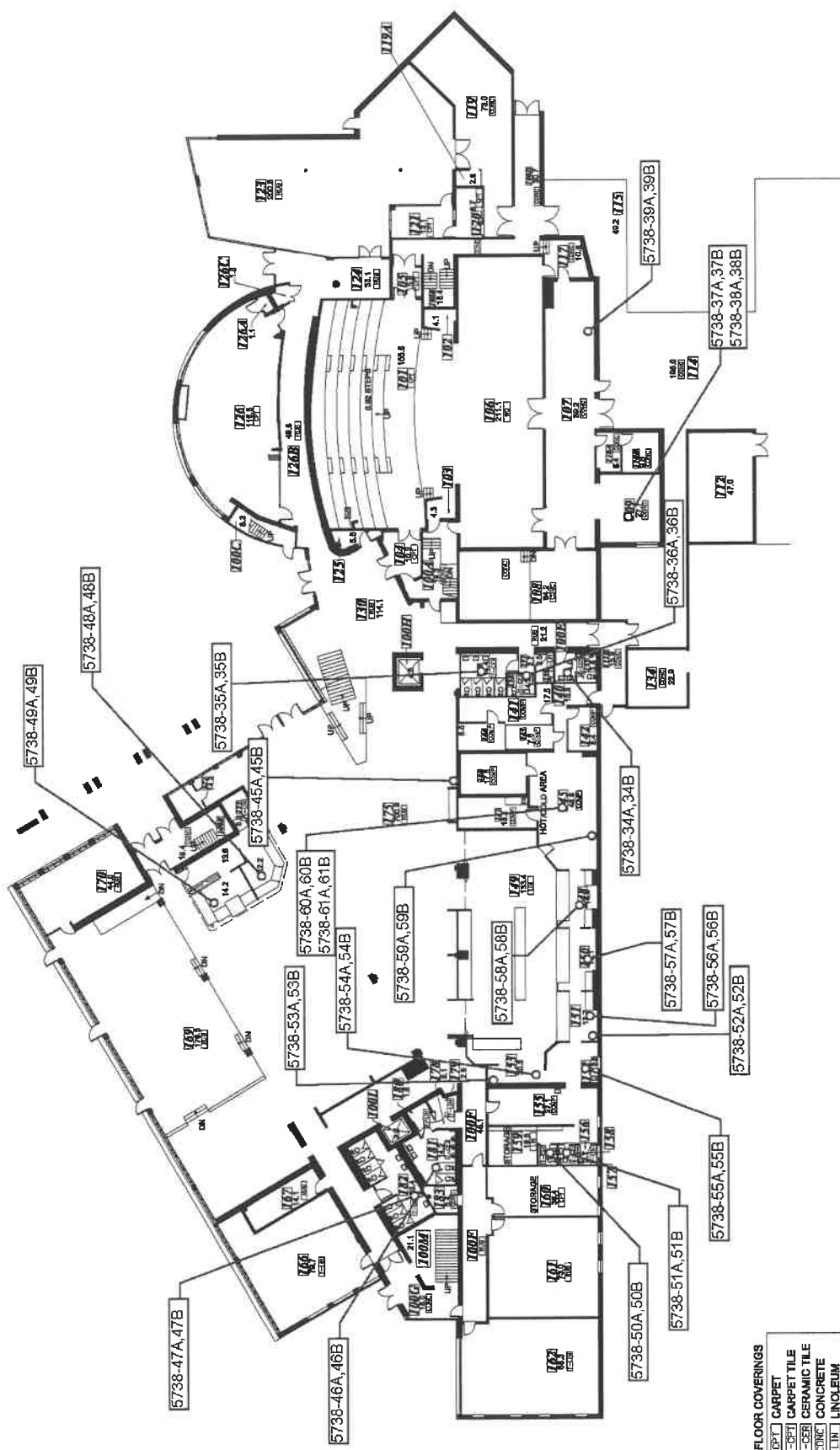
**BIRCH BUILDING | BASEMENT**



**AREA PLAN**  
 Revised: April 2017  
 Scale 1:286 (17"x11")

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 CANADA V7J 3H5

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**FLOOR COVERINGS**

021	CARPET
1-C6T1	CERAMIC TILE
1-C6B1	CERAMIC TILE
1-C6R1	CERAMIC TILE
1-C6C1	CONCRETE
1-L1M1	LINOLEUM
1-L1N1	LINOLEUM TILE
NORA	NORA
RUB	RUBBER
W.D.	WOOD

**BIRCH BUILDING | FIRST FLOOR**



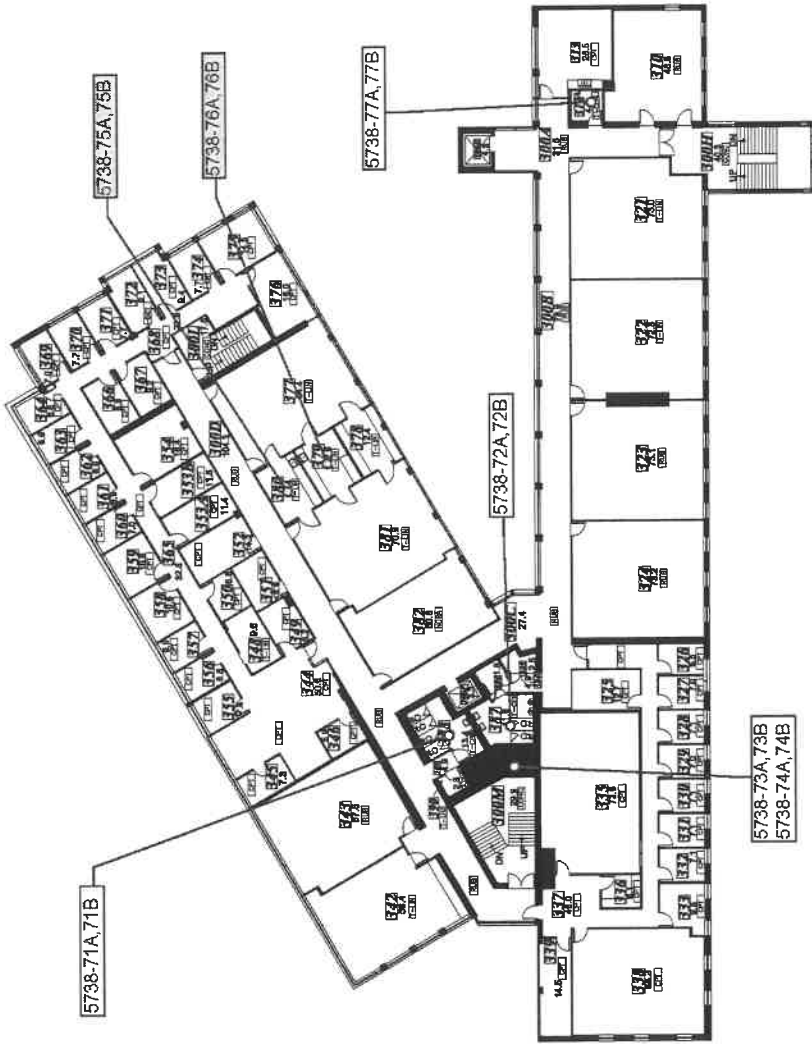


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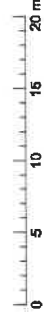
**AREA PLAN**  
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Scale 1:286 (17"x11")



FLOOR COVERINGS

CPT	CARPET
T-CST	CERAMIC TILE
T-SES	CERAMIC TILE
CONC	CONCRETE
LIN	LINOLEUM
T-LIN	LINOLEUM TILE
NORA	NORA
RUB	RUBBER
VI	WOOD

# BIRCH BUILDING | THIRD FLOOR

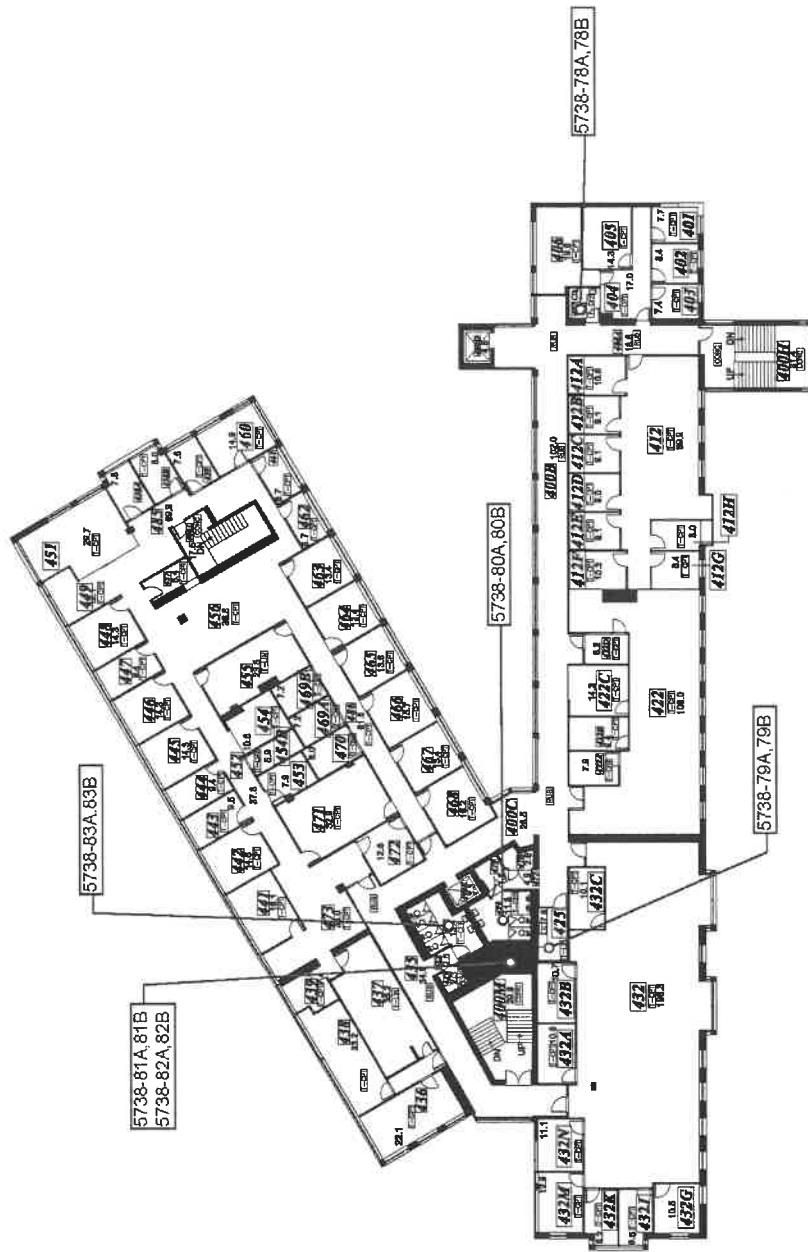




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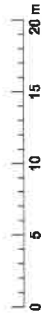
**AREA PLAN**  
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Scale 1:296 (17"x11")



**FLOOR COVERINGS**

CPT	CARPET
CPTT	CARPET TILE
T-CER	CERAMIC TILE
CONC	CONCRETE
LIN	LINOLEUM
L-LIN	LINOLEUM TILE
NORA	NORA
RUB	RUBBER
WD	WOOD

# BIRCH BUILDING | FOURTH FLOOR





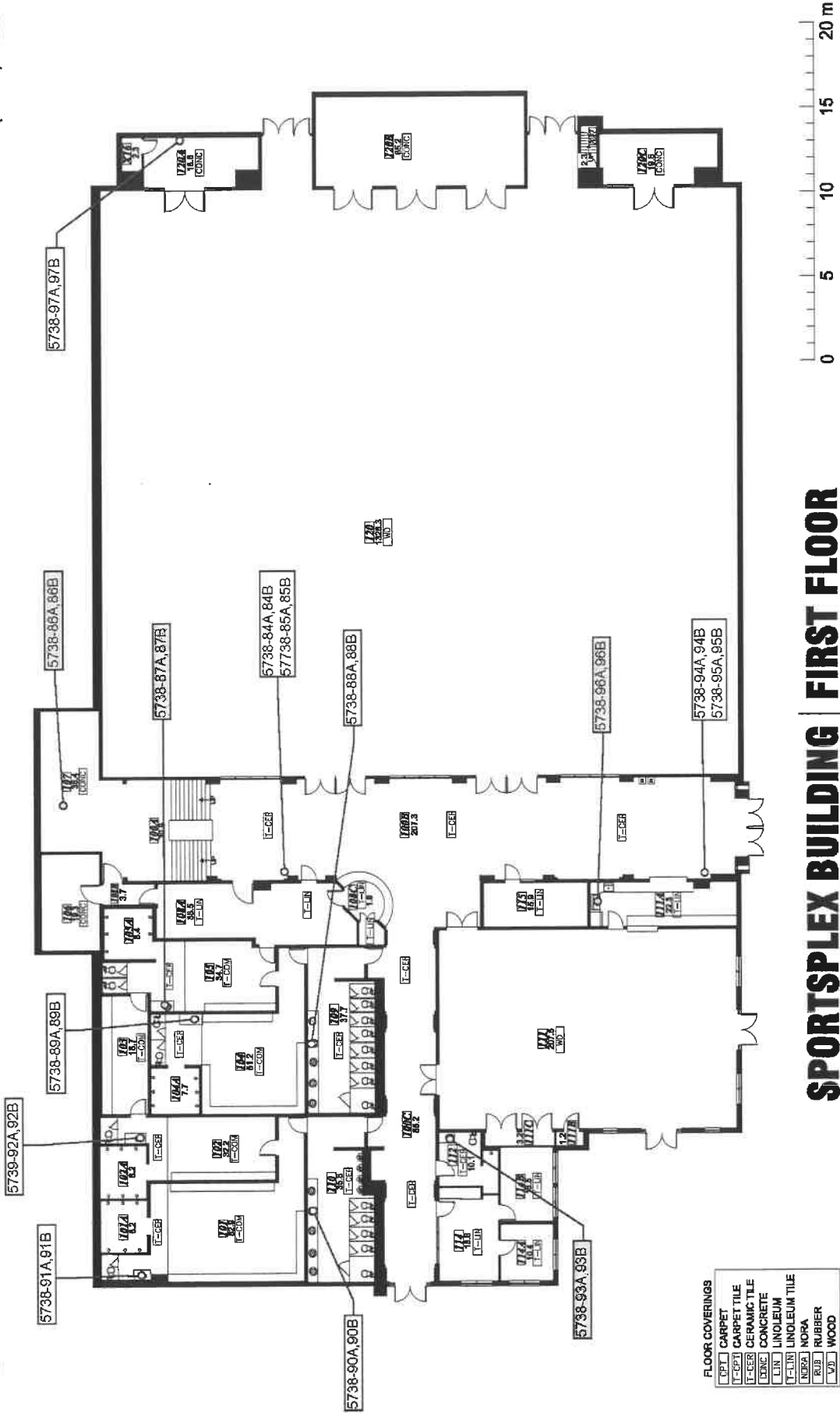
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**AREA PLAN**  
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Scale 1:187 (17"x11")

**SPORTSPEX BUILDING**



**FLOOR COVERINGS**

CPT	CARPET
CPTA	CARPET TILE
CST	CERAMIC TILE
CON	CONCRETE
LIN	LINOLEUM
LINA	LINOLEUM TILE
NORA	NORA
RUB	RUBBER
WD	WOOD



**SPORTSPEX BUILDING | FIRST FLOOR**

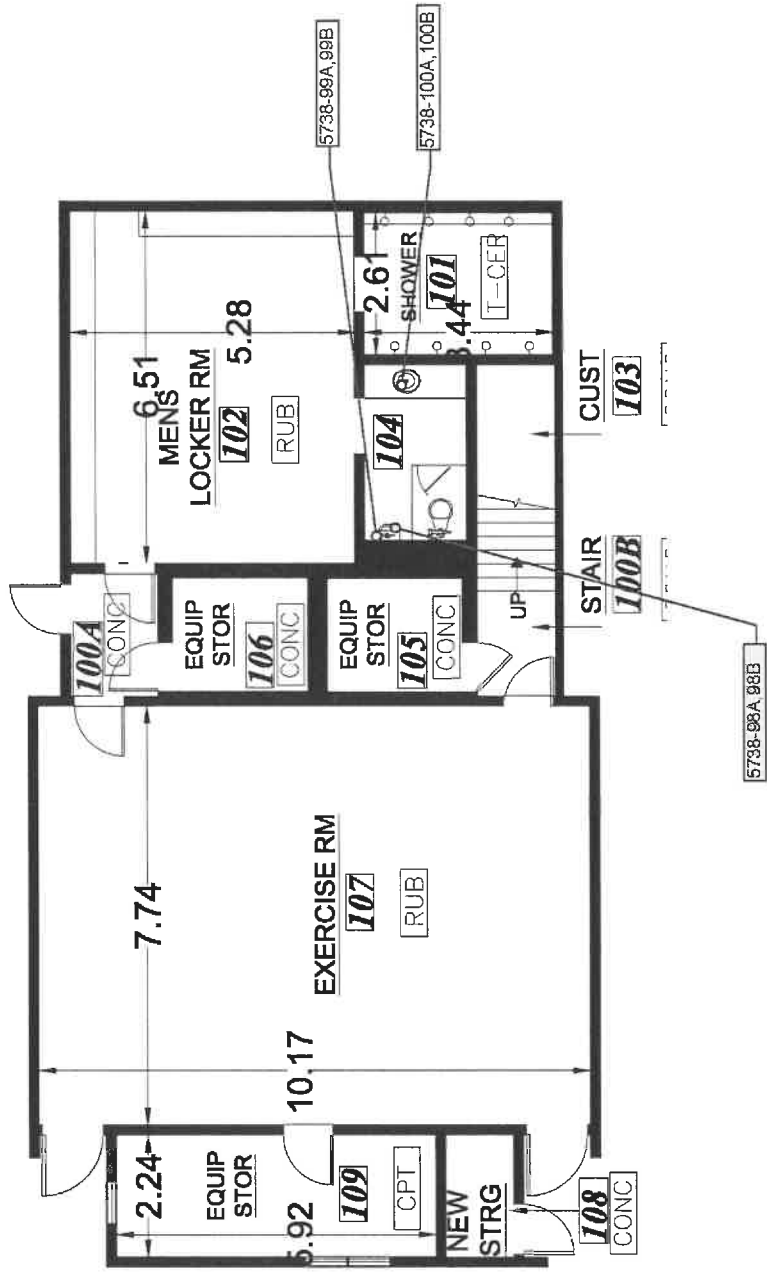


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FITNESS CENTER

**FLOOR PLAN**  
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Scale 1:78 (17"x11")



FITNESS CENTRE BUILDING | GROUND FLOOR

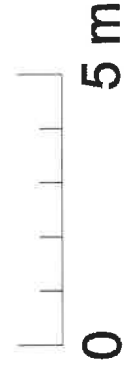
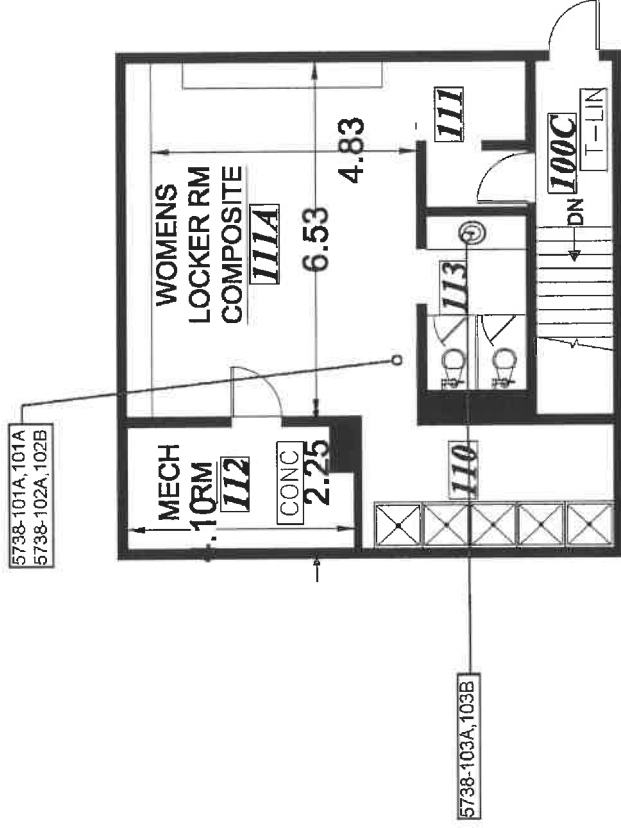




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CANADA V7J 3H5

**FLOOR PLAN**  
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Scale 1:78 (17"x11")



# FITNESS CENTRE BUILDING | MAIN FLOOR





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5738-169A, 169B  
5738-170A, 170B

5738-173A, 173B

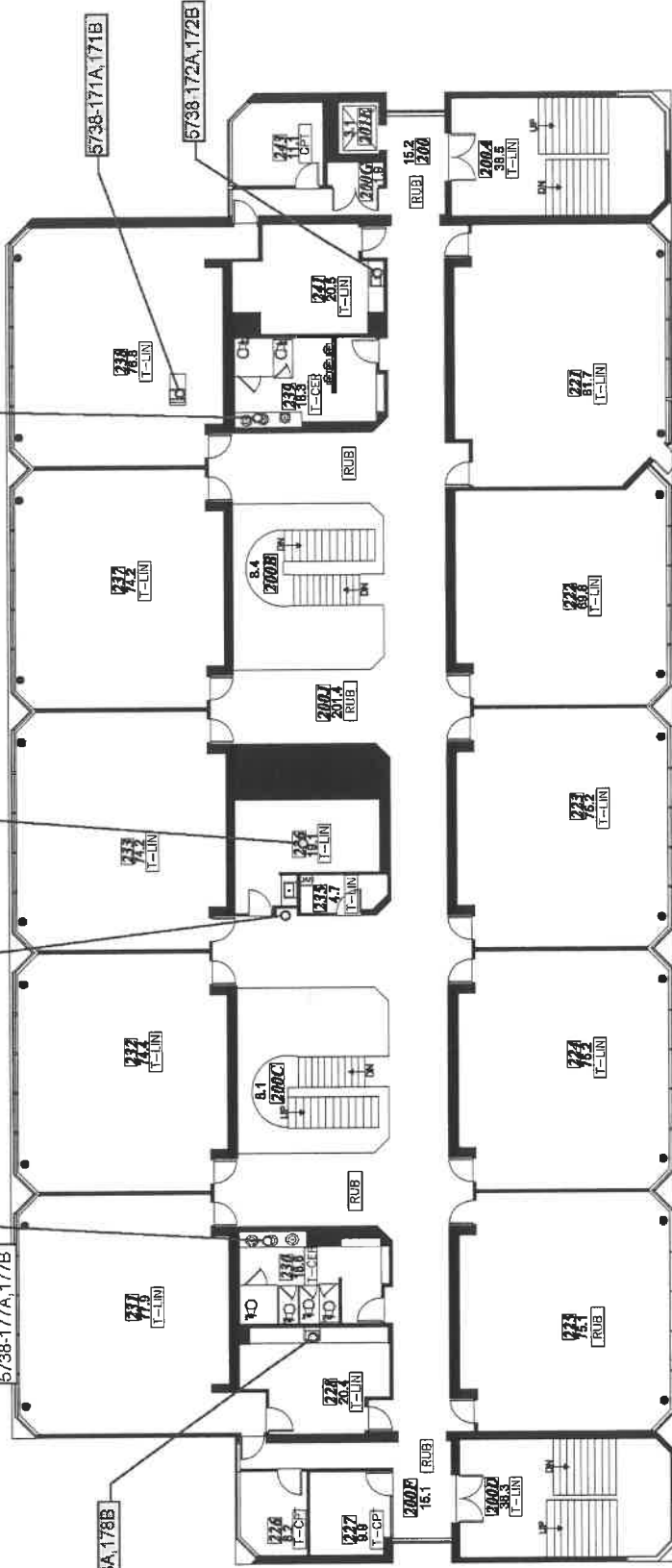
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5738-176A, 176B  
5738-177A, 177B

5738-178A, 178B

5738-171A, 171B

5738-172A, 172B



**CEDAR BUILDING | SECOND FLOOR 0** 5 10 15 20 m

**FLOOR COVERINGS**

OPT	CARPET
T-CER	CERAMIC TILE
T-CON	CONCRETE
T-LIN	LINOLEUM
T-LIN	LINOLEUM TILE
NOR	NORA
RUB	RUBBER
W	WOOD



**CAPILANO UNIVERSITY**

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NORTH VANCOUVER, BC  
CANADA V7J 3H5

**AREA PLAN**  
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Scale 1:160 (17"x11")



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5738-185A, 185B

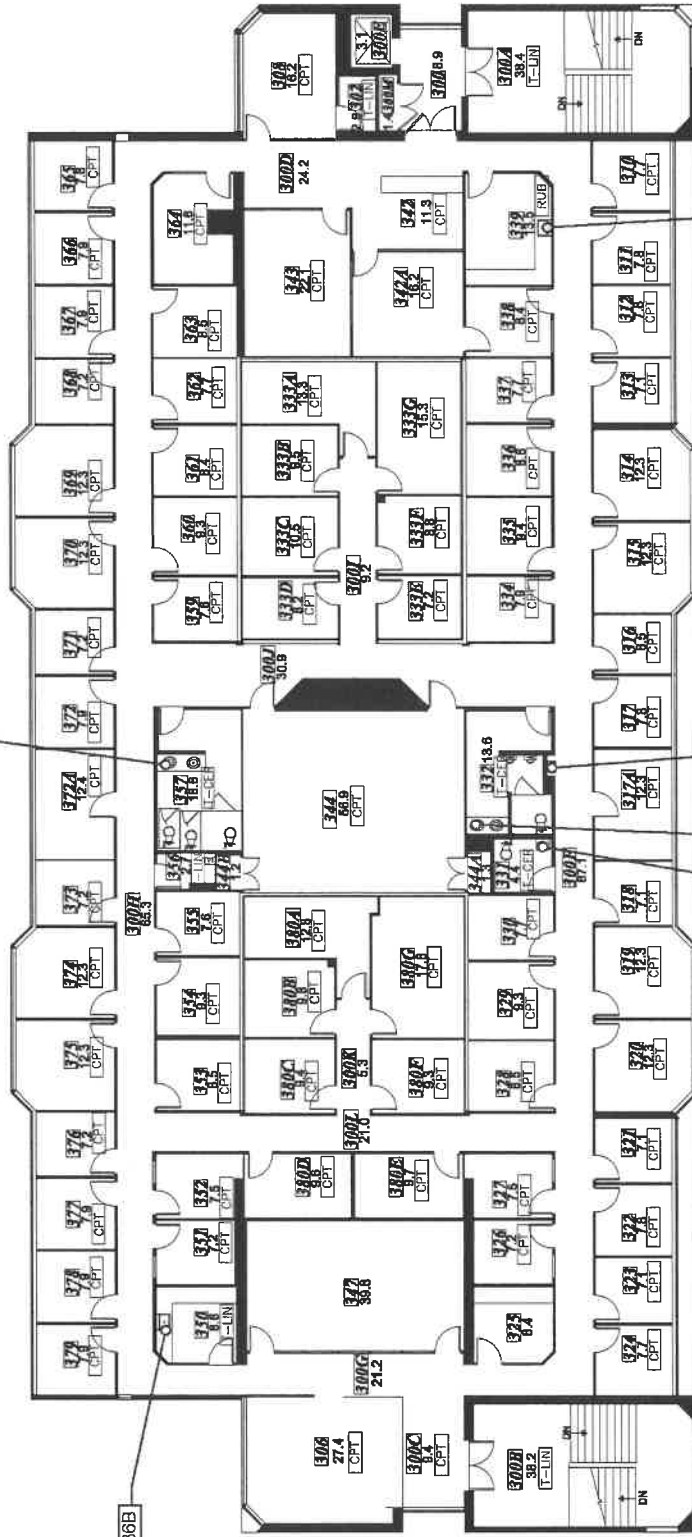
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5738-183A, 183B

5738-181A, 181B  
5738-182A, 182B

5738-179A, 179B  
5738-180A, 180B

5738-187A, 187B



**FLOOR COVERINGS**

CPT	CARPET
T-CPT	CARPET TILE
T-CER	CERAMIC TILE
LINC	CONCRETE
LIN	LINOLEUM
T-LIN	LINOLEUM TILE
NORA	NORA
RUB	RUBBER
VT	WOOD

**CEDAR BUILDING | THIRD FLOOR**

0 5 10 15 20 m

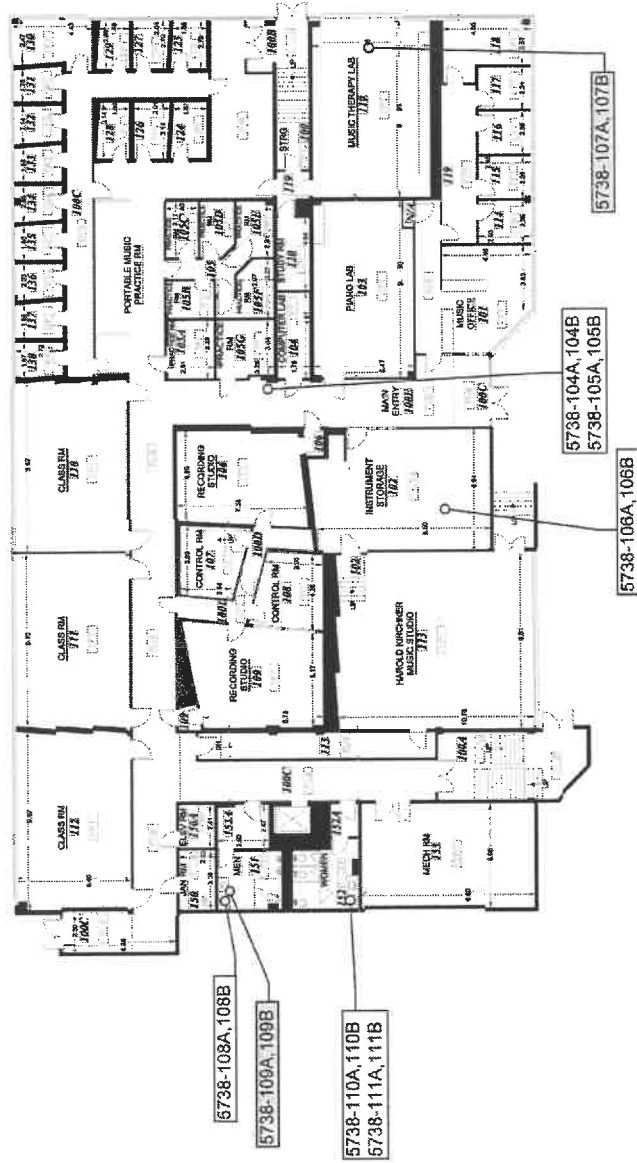


**CAPILANO**  
UNIVERSITY

2055 PURCELL WAY  
NORTH VANCOUVER, BC  
CANADA V7J 3H5

**FIR BUILDING**

**FLOOR PLAN**  
Revised: Dec. 2016  
Scale 1:240 (17"x11")



**FIR BUILDING | FIRST FLOOR**



**FLOOR COVERINGS**

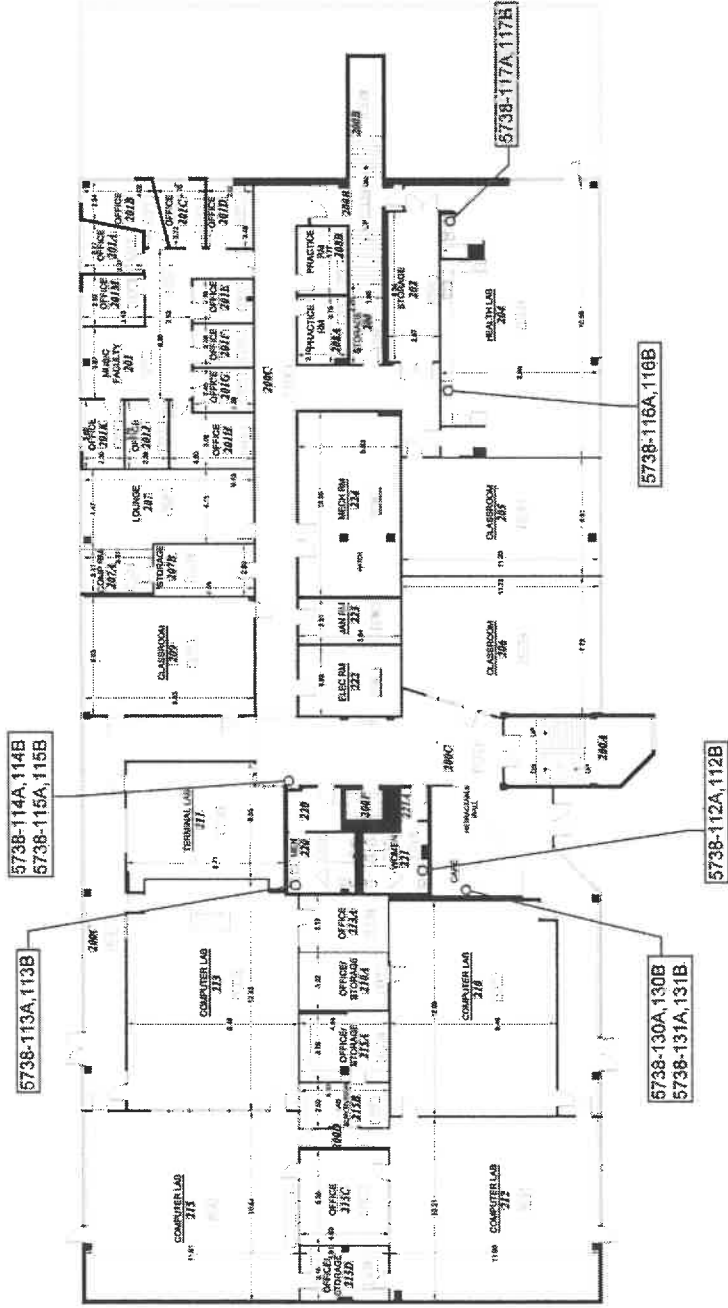
[Symbol]	CARPET
[Symbol]	CERAMIC TILE
[Symbol]	CONCRETE
[Symbol]	LINOLEUM
[Symbol]	LINOLEUM TILE
[Symbol]	NORA
[Symbol]	RUBBER
[Symbol]	WOOD



**FLOOR PLAN**  
 Revised: Dec. 2016  
 Scale 1:240 (17"x11")

2055 PURCELL WAY  
 NORTH VANCOUVER, BC  
 CANADA V7J 3H5

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FLOOR COVERINGS

	CARPET
	CERAMIC TILE
	CONCRETE
	LINOLEUM
	RUBBER
	WOOD

**FIR BUILDING | SECOND FLOOR**









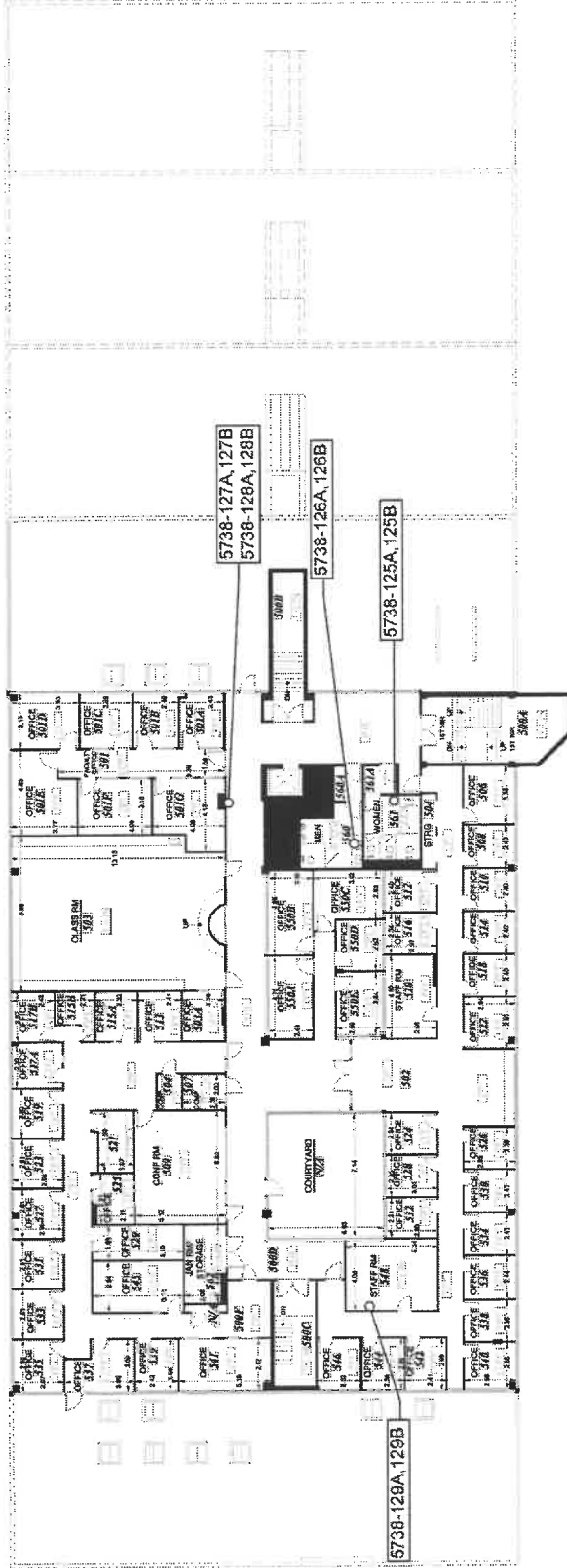


**CAPILANO  
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2055 PURCELL WAY  
NORTH VANCOUVER, BC  
CANADA V7J 3H5



**FLOOR PLAN**  
Revised: Dec. 2016  
Scale 1:240 (17"x11")



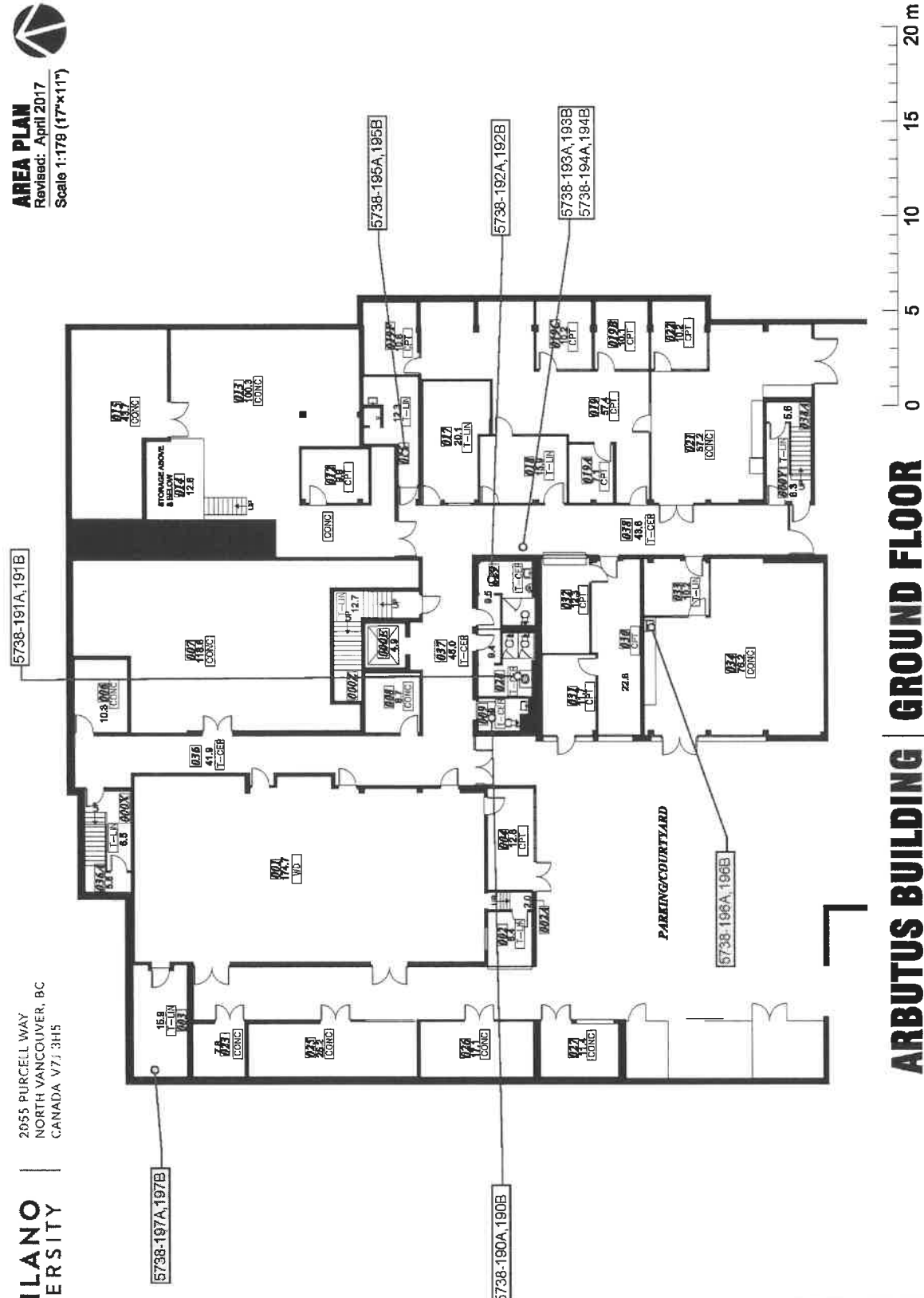
# FIR BUILDING | FIFTH FLOOR



**FLOOR COVERINGS**

[Symbol]	CARPET
[Symbol]	CERAMIC TILE
[Symbol]	CONCRETE
[Symbol]	LINOLEUM TILE
[Symbol]	NORA
[Symbol]	RUBBER
[Symbol]	WOOD

**ARBUTUS**



**ARBUTUS BUILDING | GROUND FLOOR**

**FLOOR COVERINGS**

CPT	CARPET
T-CPT	CARPET TILE
T-CER	CERAMIC TILE
CONC	CONCRETE
LIN	LINOLEUM
T-LIN	LINOLEUM TILE
NRRA	NORA
RUB	RUBBER
WV	WOOD

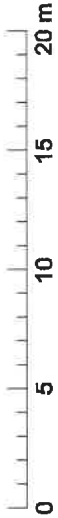
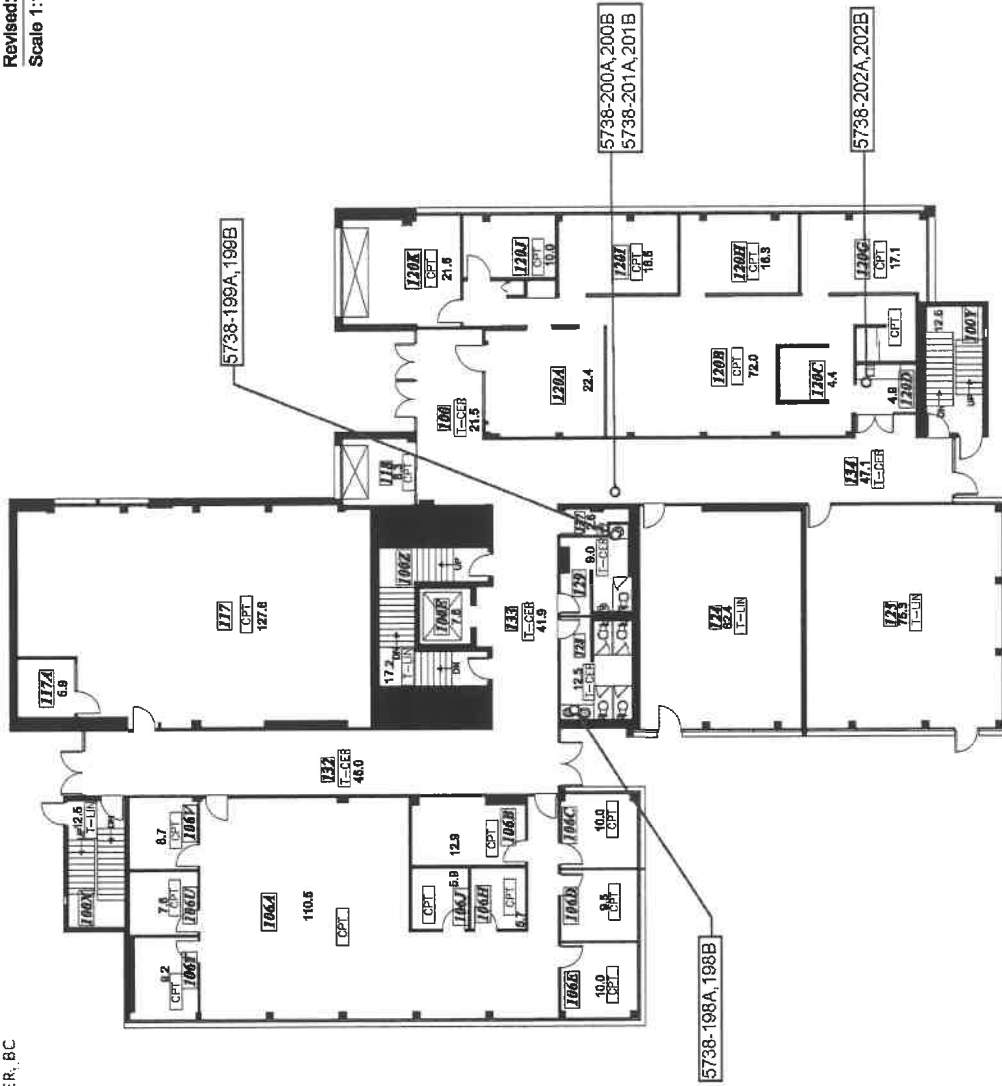


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2055 PURCELL WAY  
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CANADA V7J 3H5



**AREA PLAN**  
Revised: April 2017  
Scale 1:179 (17"x11")



**ARBUTUS BUILDING | MAIN FLOOR**

**FLOOR COVERINGS**

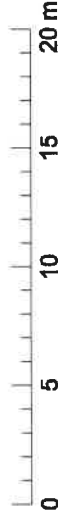
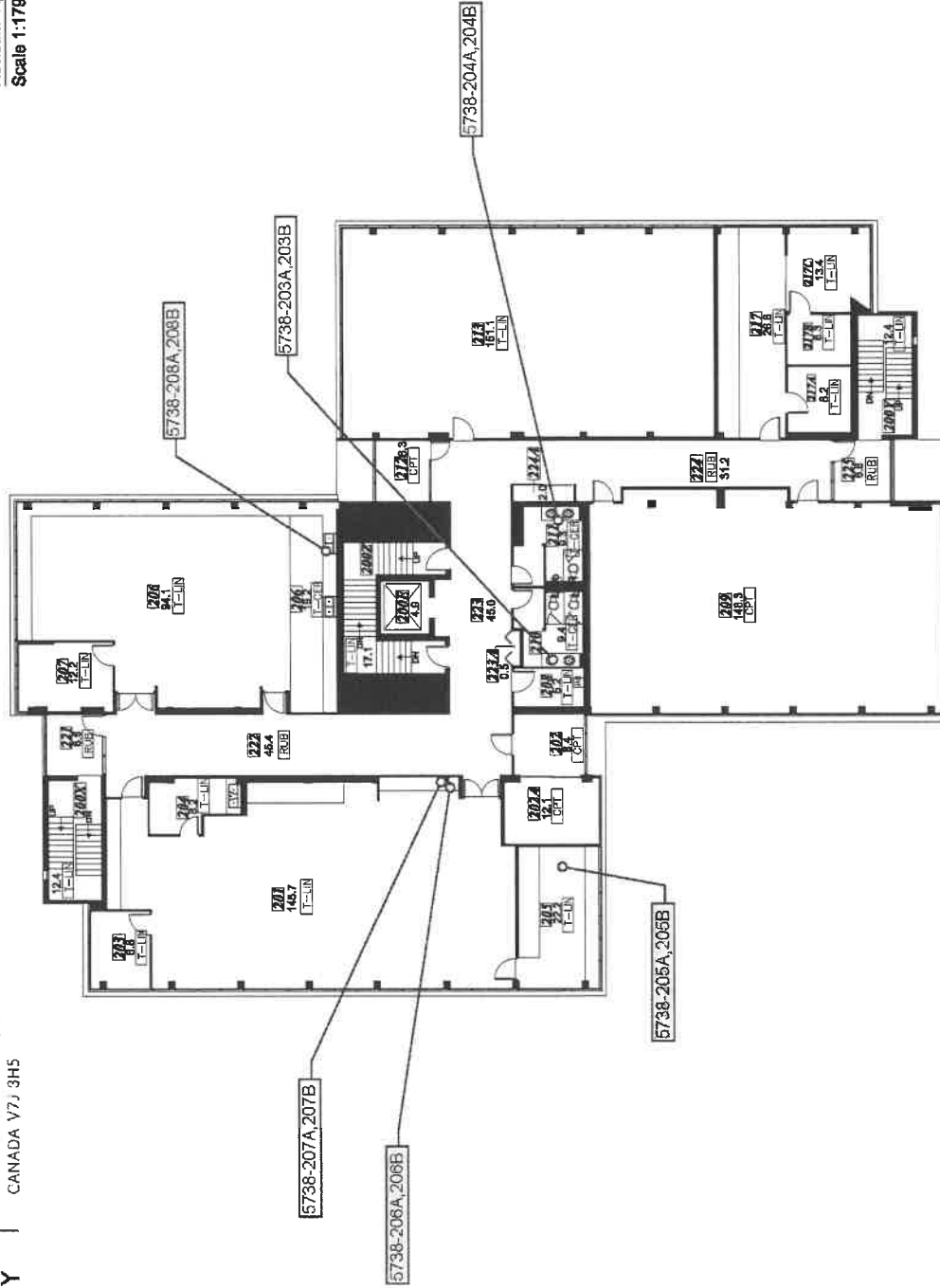
CPT	CARPET
C-TILE	CARPET TILE
C-GLAZ	CERAMIC TILE
CONC	CONCRETE
LIN	LINOLEUM
L-TILE	LINOLEUM TILE
NORA	NORA
RUB	RUBBER
WB	WOOD



**CAPILANO  
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2055 PURCELL WAY  
NORTH VANCOUVER, BC  
CANADA V7J 3H5

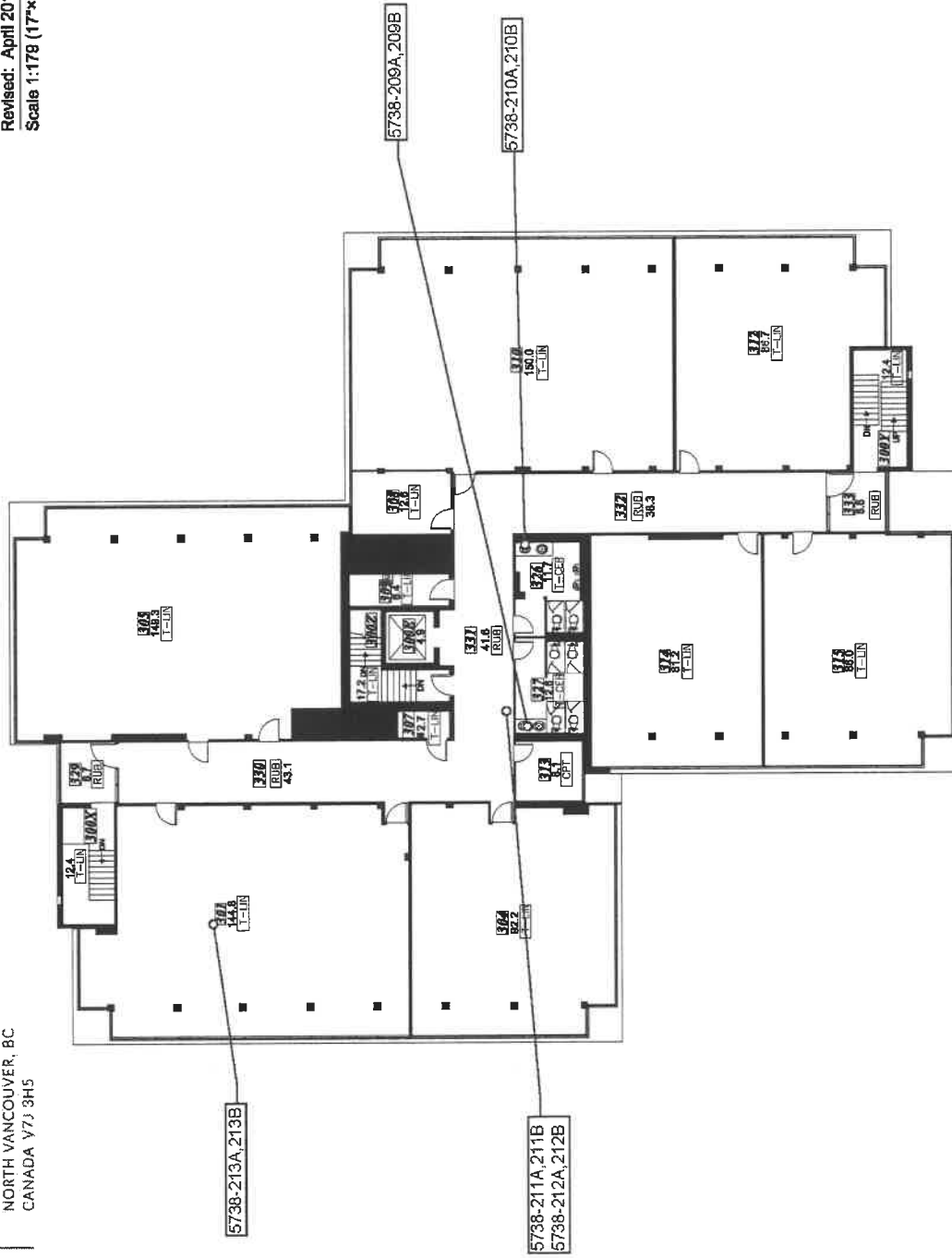
**AREA PLAN**  
Revised: April 2017  
Scale 1:178 (17"x41")



**ARBUTUS BUILDING SECOND FLOOR**

**FLOOR COVERINGS**

OPT	CARPET
L-CPT	CARPET TILE
T-CER	CERAMIC TILE
CONC	CONCRETE
LIN	LINOLEUM
T-LIN	LINOLEUM TILE
NORA	NORA
RUB	RUBBER
VT	WOOD



**ARBUTUS BUILDING | THIRD FLOOR**

**FLOOR COVERINGS**

CPT	CARPET
CTP	CERAMIC TILE
CTG	CONCRETE
CTN	LINOLEUM
CTL	LINOLEUM TILE
CTM	MORRIS
CTB	RUBBER
CTD	WOOD

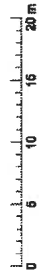
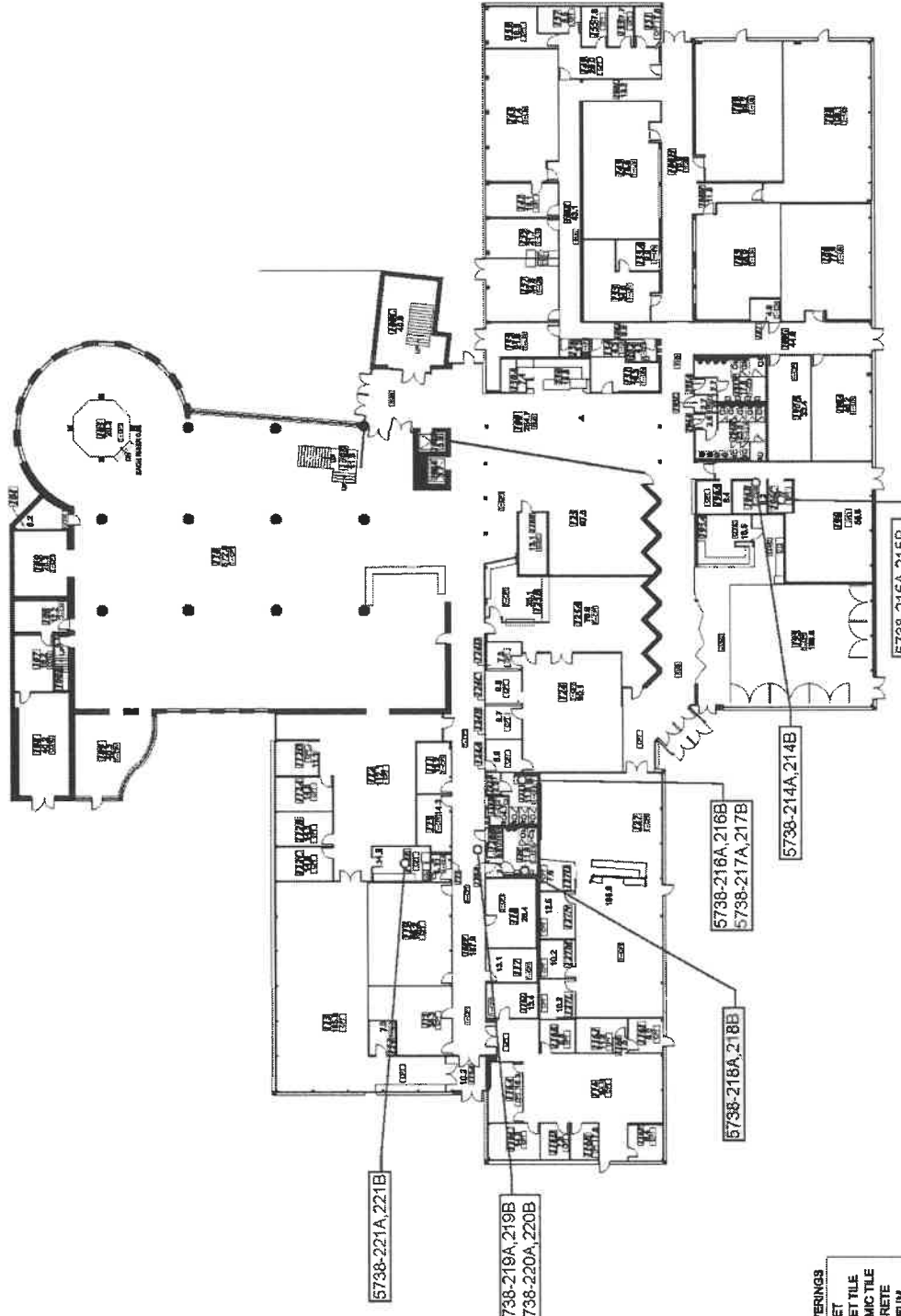


**AREA PLAN**  
Revised: April 2017  
Scale 1:343 (17"x11")

2055 PURCELL WAY  
NORTH VANCOUVER, BC  
CANADA V7J 3H5

**CAPILANO  
UNIVERSITY**

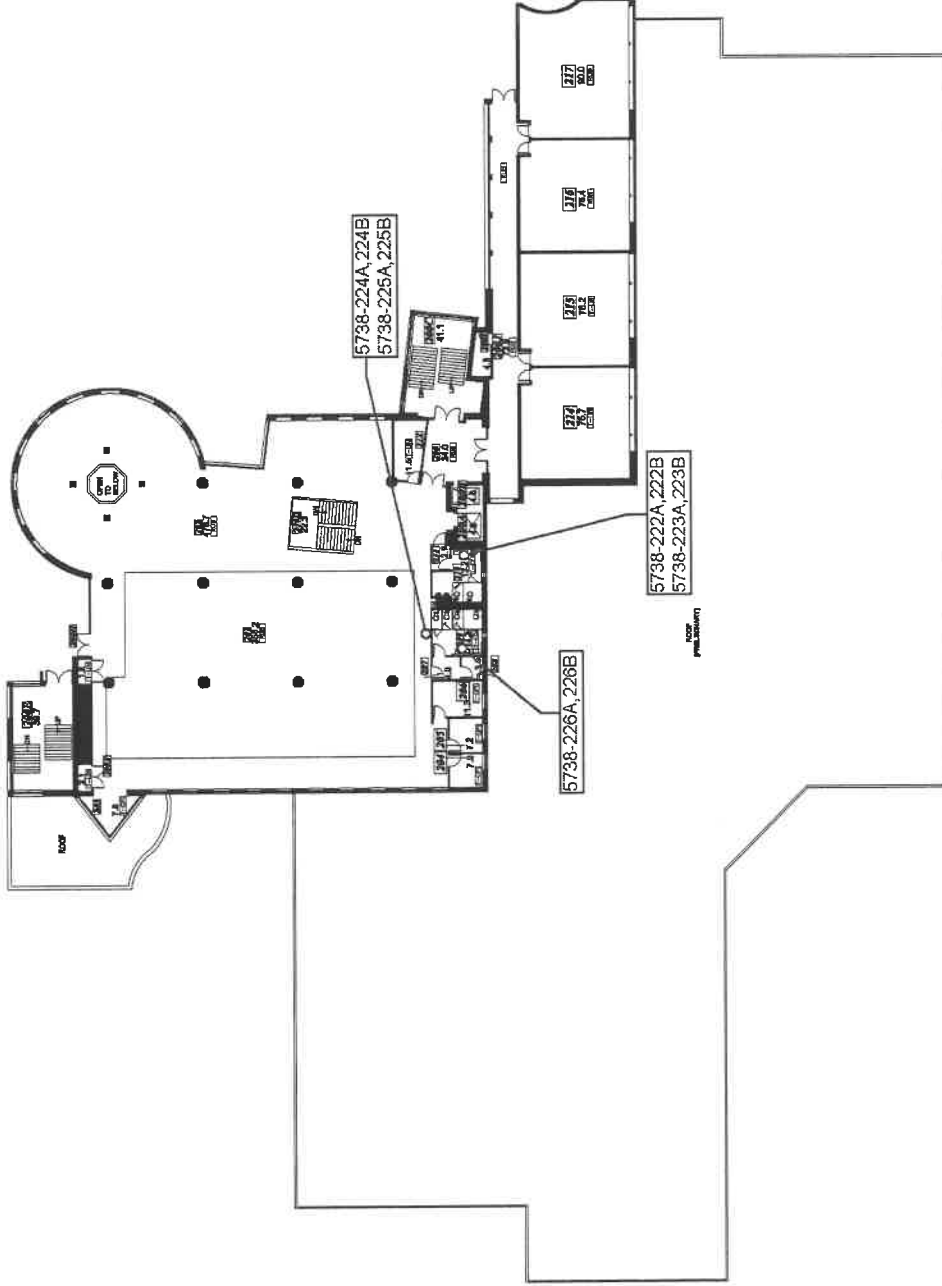
**LIBRARY BUILDING**



**LIBRARY BUILDING | FIRST FLOOR**

**FLOOR COVERINGS**

CT	CARPET
CT-CPT	CARPET TILE
CT-CER	CERAMIC TILE
CONC	CONCRETE
CLN	LINOLEUM
CT-LIN	LINOLEUM TILE
NORA	NORA
RUB	RUBBER
WD	WOOD



**LIBRARY BUILDING | SECOND FLOOR**



**FLOOR COVERINGS**

CP1	CARPET
CC1	CERAMIC TILE
CC2	CERAMIC TILE
CC3	CERAMIC TILE
CONC	CONCRETE
LN	LINOLEUM
LN1	LINOLEUM TILE
LN2	LINOLEUM TILE
LN3	LINOLEUM TILE
LN4	LINOLEUM TILE
LN5	LINOLEUM TILE
LN6	LINOLEUM TILE
LN7	LINOLEUM TILE
LN8	LINOLEUM TILE
LN9	LINOLEUM TILE
LN10	LINOLEUM TILE
LN11	LINOLEUM TILE
LN12	LINOLEUM TILE
LN13	LINOLEUM TILE
LN14	LINOLEUM TILE
LN15	LINOLEUM TILE
LN16	LINOLEUM TILE
LN17	LINOLEUM TILE
LN18	LINOLEUM TILE
LN19	LINOLEUM TILE
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LN37	LINOLEUM TILE
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LN44	LINOLEUM TILE
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LN92	LINOLEUM TILE
LN93	LINOLEUM TILE
LN94	LINOLEUM TILE
LN95	LINOLEUM TILE
LN96	LINOLEUM TILE
LN97	LINOLEUM TILE
LN98	LINOLEUM TILE
LN99	LINOLEUM TILE
LN100	LINOLEUM TILE





**Appendix B – Laboratory Results**



Your Project #: 5738-AB

**Attention: Aneet Bains**  
 KINETIC OHS SERVICES LTD.  
 #202 – 1520 Barrow Street  
 NORTH VANCOUVER, BC  
 CANADA V7J 1B7

Your C.O.C. #: 605357-01-01, 605357-02-01, 605357-03-01, 605357-04-01, 605357-05-01, 605357-06-01, 605357-07-01, 605357-08-01, 605357-09-01, 605357-10-01, 08478005, 08478006, 08478009, 08477997

Report Date: 2020/03/05  
 Report #: R2853898  
 Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

**BV LABS JOB #: CD13007**  
**Received: 2020/02/24, 14:38**  
 Sample Matrix: Water  
 # Samples Received: 70

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Lead in DW Average	70	2020/02/24	2020/03/05		
Lead in Drinking Water	36	2020/03/03	2020/03/03	AB SOP-00014 / AB SOP-00043	EPA 6020b R2 m
Lead in Drinking Water	34	2020/03/03	2020/03/04	AB SOP-00014 / AB SOP-00043	EPA 6020b R2 m
Lead in Drinking Water	35	2020/03/03	2020/03/04	AB SOP-00014 / AB SOP-00043	EPA 6020b R2 m
Lead in Drinking Water	35	2020/03/03	2020/03/05	AB SOP-00014 / AB SOP-00043	EPA 6020b R2 m

**Remarks:**

Bureau Veritas Laboratories are accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by BV Labs are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in BV Labs profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and BV Labs in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

BV Labs liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. BV Labs has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by BV Labs, unless otherwise agreed in writing. BV Labs is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by BV Labs, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.



Your Project #: 5738-AB

**Attention: Aneet Bains**  
KINETIC OHS SERVICES LTD.  
#202 – 1520 Barrow Street  
NORTH VANCOUVER, BC  
CANADA V7J 1B7

Your C.O.C. #: 605357-01-01, 605357-02-01, 605357-03-01, 605357-04-01, 605357-05-01, 605357-06-01, 605357-07-01, 605357-08-01, 605357-09-01, 605357-10-01, 08478005, 08478006, 08478009, 08477997

**Report Date: 2020/03/05**  
Report #: R2853898  
Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

**BV LABS JOB #: C013007**

**Received: 2020/02/24, 14:38**

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key



AUTHORIZED REPORT  
RAPPORT AUTORISÉ

Bureau Veritas Laboratories  
05 Mar 2020 13:17:50

Please direct all questions regarding this Certificate of Analysis to your Project Manager.  
Customer Solutions, Western Canada Customer Experience Team  
Email: customersolutionswest@bvlab.com  
Phone# (604) 734 7276

=====  
This report has been generated and distributed using a secure automated process.  
BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



BV Labs Job #: C013007  
Report Date: 2020/03/05

KINETIC OHS SERVICES LTD.  
Client Project #: 5738-AB

**ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)**

<b>BV Labs ID</b>		XL0353	XL0355	XL0357	XL0359	XL0361	XL0363		
<b>Sampling Date</b>		2020/02/23 06:00	2020/02/23 06:00	2020/02/23 06:00	2020/02/23 06:00	2020/02/23 06:00	2020/02/23 06:15		
<b>COC Number</b>		605357-01-01	605357-01-01	605357-01-01	605357-01-01	605357-01-01	605357-02-01		
	<b>UNITS</b>	<b>5738-34</b>	<b>5738-35</b>	<b>5738-36</b>	<b>5738-37</b>	<b>5738-38</b>	<b>5738-39</b>	<b>RDL</b>	<b>QC Batch</b>

<b>Elements</b>									
Total Lead (Pb)	mg/L	0.00047	0.00089	0.0022	0.00032	0.00050	0.00087	0.00020	9785145
Second bottle Total Lead (Pb)	mg/L	<0.00020	0.00026	0.00053	<0.00020	<0.00020	0.0028	0.00020	9785246
Average Total Lead (Pb)	mg/L	0.00023	0.00058	0.0013	<0.00020	0.00025	0.0018	0.00020	9775612
RDL = Reportable Detection Limit									

<b>BV Labs ID</b>		XL0365	XL0367	XL0369	XL0371	XL0374	XL0376		
<b>Sampling Date</b>		2020/02/23 06:15	2020/02/23 06:15	2020/02/23 06:15	2020/02/23 06:15	2020/02/23 06:30	2020/02/23 06:30		
<b>COC Number</b>		605357-02-01	605357-02-01	605357-02-01	605357-02-01	605357-03-01	605357-03-01		
	<b>UNITS</b>	<b>5738-40</b>	<b>5738-41</b>	<b>5738-42</b>	<b>5738-43</b>	<b>5738-44</b>	<b>5738-45</b>	<b>RDL</b>	<b>QC Batch</b>

<b>Elements</b>									
Total Lead (Pb)	mg/L	0.0015	0.0016	0.0034	0.0017	0.00088	0.00060	0.00020	9785145
Second bottle Total Lead (Pb)	mg/L	0.00068	0.00066	0.0012	0.00057	0.00026	<0.00020	0.00020	9785246
Average Total Lead (Pb)	mg/L	0.0011	0.0011	0.0023	0.0011	0.00057	0.00030	0.00020	9775612
RDL = Reportable Detection Limit									

<b>BV Labs ID</b>		XL0378	XL0380	XL0382	XL0384		XL0386		
<b>Sampling Date</b>		2020/02/23 06:30	2020/02/23 06:30	2020/02/23 06:30	2020/02/23 06:45		2020/02/23 06:45		
<b>COC Number</b>		605357-03-01	605357-03-01	605357-03-01	605357-04-01		605357-04-01		
	<b>UNITS</b>	<b>5738-46</b>	<b>5738-47</b>	<b>5738-48</b>	<b>5738-49</b>	<b>QC Batch</b>	<b>5738-50</b>	<b>RDL</b>	<b>QC Batch</b>

<b>Elements</b>									
Total Lead (Pb)	mg/L	0.0011	0.00089	<0.00020	0.00042	9785145	0.00099	0.00020	9785151
Second bottle Total Lead (Pb)	mg/L	0.00021	0.00025	<0.00020	0.00028	9785246	0.00056	0.00020	9785248
Average Total Lead (Pb)	mg/L	0.00067	0.00057	<0.00020	0.00035	9775612	0.00077	0.00020	9775612
RDL = Reportable Detection Limit									

<b>BV Labs ID</b>		XL0388	XL0390	XL0392	XL0394	XL0396	XL0398		
<b>Sampling Date</b>		2020/02/23 06:45	2020/02/23 06:45	2020/02/23 06:45	2020/02/23 07:00	2020/02/23 07:00	2020/02/23 07:00		
<b>COC Number</b>		605357-04-01	605357-04-01	605357-04-01	605357-05-01	605357-05-01	605357-05-01		
	<b>UNITS</b>	<b>5738-51</b>	<b>5738-52</b>	<b>5738-53</b>	<b>5738-54</b>	<b>5738-55</b>	<b>5738-56</b>	<b>RDL</b>	<b>QC Batch</b>

<b>Elements</b>									
Total Lead (Pb)	mg/L	0.0019	0.00071	0.0013	0.00024	0.0039	0.0016	0.00020	9785151
Second bottle Total Lead (Pb)	mg/L	0.00095	0.00053	0.0040	<0.00020	0.0041	0.00070	0.00020	9785248
Average Total Lead (Pb)	mg/L	0.0014	0.00062	0.0026	<0.00020	0.0040	0.0011	0.00020	9775612
RDL = Reportable Detection Limit									



BV Labs Job #: C013007  
Report Date: 2020/03/05

KINETIC OHS SERVICES LTD.  
Client Project #: 5738-AB

**ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)**

<b>BV Labs ID</b>		XL0400	XL0402	XL0414	XL0416	XL0418	XL0420		
<b>Sampling Date</b>		2020/02/23 07:00	2020/02/23 07:00	2020/02/23 07:15	2020/02/23 07:15	2020/02/23 07:15	2020/02/23 07:15		
<b>COC Number</b>		605357-05-01	605357-05-01	605357-06-01	605357-06-01	605357-06-01	605357-06-01		
	<b>UNITS</b>	<b>5738-57</b>	<b>5738-58</b>	<b>5738-59</b>	<b>5738-60</b>	<b>5738-61</b>	<b>5738-62</b>	<b>RDL</b>	<b>QC Batch</b>

<b>Elements</b>									
Total Lead (Pb)	mg/L	0.0020	0.0023	0.0010	0.00058	0.00034	0.0088	0.00020	9785151
Second bottle Total Lead (Pb)	mg/L	0.0044	0.0027	0.0016	0.00030	0.00034	0.0035	0.00020	9785248
Average Total Lead (Pb)	mg/L	0.0032	0.0025	0.0013	0.00044	0.00034	0.0062	0.00020	9775612

RDL = Reportable Detection Limit

<b>BV Labs ID</b>		XL0422	XL0424	XL0426	XL0428	XL0430	XL0432		
<b>Sampling Date</b>		2020/02/23 07:15	2020/02/23 08:00	2020/02/23 08:00	2020/02/23 08:00	2020/02/23 08:00	2020/02/23 08:00		
<b>COC Number</b>		605357-06-01	605357-07-01	605357-07-01	605357-07-01	605357-07-01	605357-07-01		
	<b>UNITS</b>	<b>5738-63</b>	<b>5738-64</b>	<b>5738-65</b>	<b>5738-66</b>	<b>5738-67</b>	<b>5738-68</b>	<b>RDL</b>	<b>QC Batch</b>

<b>Elements</b>									
Total Lead (Pb)	mg/L	0.0037	0.0084	0.012	0.0011	0.00072	0.00036	0.00020	9785151
Second bottle Total Lead (Pb)	mg/L	0.0011	0.0041	0.038	0.00025	0.00033	0.00032	0.00020	9785248
Average Total Lead (Pb)	mg/L	0.0024	0.0063	0.025	0.00068	0.00053	0.00034	0.00020	9775612

RDL = Reportable Detection Limit

<b>BV Labs ID</b>		XL0454	XL0456	XL0458	XL0460	XL0462	XL0464		
<b>Sampling Date</b>		2020/02/23 08:15	2020/02/23 08:15	2020/02/23 08:15	2020/02/23 08:15	2020/02/23 08:15	2020/02/23 08:30		
<b>COC Number</b>		605357-08-01	605357-08-01	605357-08-01	605357-08-01	605357-08-01	605357-09-01		
	<b>UNITS</b>	<b>5738-69</b>	<b>5738-70</b>	<b>5738-71</b>	<b>5738-72</b>	<b>5738-73</b>	<b>5738-74</b>	<b>RDL</b>	<b>QC Batch</b>

<b>Elements</b>									
Total Lead (Pb)	mg/L	0.00025	0.00082	0.0014	0.0013	0.00022	0.00024	0.00020	9785191
Second bottle Total Lead (Pb)	mg/L	0.00032	0.00022	0.00035	0.00051	0.00026	0.00031	0.00020	9785278
Average Total Lead (Pb)	mg/L	0.00028	0.00052	0.00087	0.00089	0.00024	0.00027	0.00020	9775612

RDL = Reportable Detection Limit

<b>BV Labs ID</b>		XL0466	XL0468	XL0470	XL0472	XL0474	XL0476		
<b>Sampling Date</b>		2020/02/23 08:30	2020/02/23 08:30	2020/02/23 08:30	2020/02/23 08:30	2020/02/23 08:30	2020/02/23 08:30		
<b>COC Number</b>		605357-09-01	605357-09-01	605357-09-01	605357-09-01	605357-10-01	605357-10-01		
	<b>UNITS</b>	<b>5738-75</b>	<b>5738-76</b>	<b>5738-77</b>	<b>5738-78</b>	<b>5738-79</b>	<b>5738-80</b>	<b>RDL</b>	<b>QC Batch</b>

<b>Elements</b>									
Total Lead (Pb)	mg/L	0.0058	0.0068	0.0025	0.0021	0.00041	0.0016	0.00020	9785191
Second bottle Total Lead (Pb)	mg/L	0.0079	0.0070	0.00056	0.00066	0.00043	0.00049	0.00020	9785278
Average Total Lead (Pb)	mg/L	0.0068	0.0069	0.0015	0.0014	0.00042	0.0010	0.00020	9775612

RDL = Reportable Detection Limit



BV Labs Job #: C013007  
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KINETIC OHS SERVICES LTD.  
Client Project #: 5738-AB

**ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)**

<b>BV Labs ID</b>		XL0478	XL0480	XL0482	XL0484	XL0486	XL0488		
<b>Sampling Date</b>		2020/02/23 08:30	2020/02/23 08:30	2020/02/23 08:30	2020/02/23 09:00	2020/02/23 09:00	2020/02/23 09:00		
<b>COC Number</b>		605357-10-01	605357-10-01	605357-10-01	08478005	08478005	08478005		
	<b>UNITS</b>	<b>5738-81</b>	<b>5738-82</b>	<b>5738-83</b>	<b>5738-84</b>	<b>5738-85</b>	<b>5738-86</b>	<b>RDL</b>	<b>QC Batch</b>

<b>Elements</b>									
Total Lead (Pb)	mg/L	0.00036	0.00056	0.00040	0.00047	0.00032	0.013	0.00020	9785191
Second bottle Total Lead (Pb)	mg/L	0.00075	0.00068	0.0012	0.00027	0.0011	0.0033	0.00020	9785278
Average Total Lead (Pb)	mg/L	0.00055	0.00062	0.00081	0.00037	0.00069	0.0082	0.00020	9775612

RDL = Reportable Detection Limit

<b>BV Labs ID</b>		XL0490		XL0492	XL0513	XL0515	XL0517	XL0519		
<b>Sampling Date</b>		2020/02/23 09:00		2020/02/23 09:00	2020/02/23 09:00	2020/02/23 09:00	2020/02/23 09:00	2020/02/23 09:00		
<b>COC Number</b>		08478005		08478005	08478006	08478006	08478006	08478006		
	<b>UNITS</b>	<b>5738-87</b>	<b>QC Batch</b>	<b>5738-88</b>	<b>5738-89</b>	<b>5738-90</b>	<b>5738-91</b>	<b>5738-92</b>	<b>RDL</b>	<b>QC Batch</b>

<b>Elements</b>										
Total Lead (Pb)	mg/L	0.0090	9785191	0.0020	0.0011	0.0017	0.0044	0.0045	0.00020	9785192
Second bottle Total Lead (Pb)	mg/L	0.0052	9785278	0.0022	0.00042	0.0022	0.0013	0.00086	0.00020	9785286
Average Total Lead (Pb)	mg/L	0.0071	9775612	0.0021	0.00076	0.0020	0.0028	0.0027	0.00020	9775612

RDL = Reportable Detection Limit

<b>BV Labs ID</b>		XL0521	XL0523	XL0525	XL0527	XL0529	XL0531		
<b>Sampling Date</b>		2020/02/23 09:00	2020/02/23 09:30	2020/02/23 09:30	2020/02/23 09:30	2020/02/23 09:30	2020/02/23 09:30		
<b>COC Number</b>		08478006	08478009	08478009	08478009	08478009	08478009		
	<b>UNITS</b>	<b>5738-93</b>	<b>5738-94</b>	<b>5738-95</b>	<b>5738-96</b>	<b>5738-97</b>	<b>5738-98</b>	<b>RDL</b>	<b>QC Batch</b>

<b>Elements</b>									
Total Lead (Pb)	mg/L	0.0084	0.00036	<0.00020	0.010	0.00074	0.0063	0.00020	9785192
Second bottle Total Lead (Pb)	mg/L	0.0012	<0.00020	<0.00020	0.0035	<0.00020	0.0016	0.00020	9785286
Average Total Lead (Pb)	mg/L	0.0048	<0.00020	<0.00020	0.0067	0.00037	0.0040	0.00020	9775612

RDL = Reportable Detection Limit

<b>BV Labs ID</b>		XL0540	XL0542	XL0544	XL0546	XL0548		
<b>Sampling Date</b>		2020/02/23 10:00	2020/02/23 10:00	2020/02/23 10:00	2020/02/23 10:00	2020/02/23 10:00		
<b>COC Number</b>		08477997	08477997	08477997	08477997	08477997		
	<b>UNITS</b>	<b>5738-99</b>	<b>5738-100</b>	<b>5738-101</b>	<b>5738-102</b>	<b>5738-103</b>	<b>RDL</b>	<b>QC Batch</b>

<b>Elements</b>								
Total Lead (Pb)	mg/L	0.0014	0.00045	0.0031	0.00052	0.00097	0.00020	9785192
Second bottle Total Lead (Pb)	mg/L	0.0012	0.00056	0.00041	0.00046	0.0011	0.00020	9785286
Average Total Lead (Pb)	mg/L	0.0013	0.00051	0.0018	0.00049	0.0010	0.00020	9775612

RDL = Reportable Detection Limit



BV Labs Job #: C013007  
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KINETIC OHS SERVICES LTD.  
Client Project #: 5738-AB

#### GENERAL COMMENTS

Results relate only to the items tested.



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QUALITY ASSURANCE REPORT

KINETIC OHS SERVICES LTD.  
 Client Project #: 5738-AB

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9785145	Total Lead (Pb)	2020/03/04	107	80 - 120	100	80 - 120	<0.00020	mg/L	4.5	20
9785151	Total Lead (Pb)	2020/03/03	96	80 - 120	99	80 - 120	<0.00020	mg/L	3.9	20
9785191	Total Lead (Pb)	2020/03/04	98	80 - 120	99	80 - 120	<0.00020	mg/L	2.8	20
9785192	Total Lead (Pb)	2020/03/03	101	80 - 120	95	80 - 120	<0.00020	mg/L	2.8	20
9785246	Second bottle Total Lead (Pb)	2020/03/04	98	80 - 120	97	80 - 120	<0.00020	mg/L	NC	20
9785248	Second bottle Total Lead (Pb)	2020/03/04	99	80 - 120	101	80 - 120	<0.00020	mg/L	0.18	20
9785278	Second bottle Total Lead (Pb)	2020/03/05	99	80 - 120	96	80 - 120	<0.00020	mg/L	5.5	20
9785286	Second bottle Total Lead (Pb)	2020/03/05	96	80 - 120	94	80 - 120	<0.00020	mg/L	0.56	20

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).



BV Labs Job #: C013007  
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KINETIC OHS SERVICES LTD.  
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### VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).


A handwritten signature in black ink, appearing to read 'Andy Lu', written over a horizontal line.

Andy Lu, Ph.D., P.Chem., Scientific Specialist

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BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.




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INVOICE TO:		Report information		Project information	
<b>#1486 KINEMO ONE SERVICES LTD.</b> Account Payable 8202 - 1528 Barrow Street NORTH VANCOUVER B.C. V7J 1H7 (604) 268-0299 accounts@kinemoco.com kinemoco@kinemoco.com		Company Name: <b>Kinemo One</b> Contact Name: <b>Arnel Balis</b> Address: Phone: Email: <b>arnel@kinemoco.com</b>		Collection #: <b>87-259</b> Project #: <b>8738 AB</b> Project Name: Date: Sample #:	
Billing Cycle: <input type="checkbox"/> 15th <input type="checkbox"/> 30th <input checked="" type="checkbox"/> 1st of Month <input type="checkbox"/> Other		Sampling Location:		Turnover Time (ATI) Required: Required (Standard) ATI: Not to exceed of about 14.1 days per test Standard 107 - 5.7 working days per report Please note: On-site ATI for certain tests such as BOD and Coliforms are +/- days - contact your Project Manager for details. Job Results: Show DAT or complete by date extended: 1 DAY <input type="checkbox"/> 2 Day <input type="checkbox"/> 3 Day <input type="checkbox"/> 4 Day <input type="checkbox"/> 5 Day <input type="checkbox"/> 6 Day <input type="checkbox"/> 7 Day <input type="checkbox"/> 8 Day <input type="checkbox"/> 9 Day <input type="checkbox"/> 10 Day <input type="checkbox"/> 11 Day <input type="checkbox"/> 12 Day <input type="checkbox"/> 13 Day <input type="checkbox"/> 14 Day <input type="checkbox"/> 15 Day <input type="checkbox"/> 16 Day <input type="checkbox"/> 17 Day <input type="checkbox"/> 18 Day <input type="checkbox"/> 19 Day <input type="checkbox"/> 20 Day <input type="checkbox"/> 21 Day <input type="checkbox"/> 22 Day <input type="checkbox"/> 23 Day <input type="checkbox"/> 24 Day <input type="checkbox"/> 25 Day <input type="checkbox"/> 26 Day <input type="checkbox"/> 27 Day <input type="checkbox"/> 28 Day <input type="checkbox"/> 29 Day <input type="checkbox"/> 30 Day <input 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Bioscience Resource Project  
 6500 Central Expressway, Suite 200, San Jose, CA 95128-1600  
 Tel: (408) 951-3300 Fax: (408) 951-3301 www.bioscience.com

INVOICE TO:

Company Name: <b>PHENIX ONE SERVICES LTD</b> Account Name: <b>Accounts Payable</b> Address: <b>8002 - 1520 Bannock Street</b> <b>NORTH VANCOUVER BC V7J 1B7</b> Phone: <b>604 388 2500</b> Email: <b>accounts@phenixone.com harvey@phenixone.com</b>	Contact Name: <b>Alfred Reyes</b> Contact Title: <b>Reception</b> Phone: <b>604 388 2500</b> Email: <b>alreys@phenixone.com</b>	Project Information: Contract #: <b>B71256</b> PO#: <b>8</b> Project Name: <b>STN LAB</b> Date: <b>12/24/2014</b>	Only Order # <b>0013007_COC</b> Project Manager Client Order #
---	--	---	--

SAMPLES MUST BE KEPT COOL IN ICE FROM TIME OF SHIPPING UNTIL DELIVERY TO BLUES

Sample Name Label	Lab Info (Lab, Room, Accession)	Date Collected	Time Collected	Notes	Barcode	Lead + Drawing Water
1	5738-39A	24/12/2014	6:15	work		<input checked="" type="checkbox"/>
2	5738-39B					<input checked="" type="checkbox"/>
3	5738-40A					<input checked="" type="checkbox"/>
4	5738-40B					<input checked="" type="checkbox"/>
5	5738-41A					<input checked="" type="checkbox"/>
6	5738-41B					<input checked="" type="checkbox"/>
7	5738-42A					<input checked="" type="checkbox"/>
8	5738-42B					<input checked="" type="checkbox"/>
9	5738-43A					<input checked="" type="checkbox"/>
10	5738-43B					<input checked="" type="checkbox"/>

Bioscience Resource Project  
 6500 Central Expressway, Suite 200, San Jose, CA 95128-1600  
 Tel: (408) 951-3300 Fax: (408) 951-3301 www.bioscience.com

Date: 12/24/2014 Time: 11:34 AM

Lab Use Only  
 Date of Use: 12/24/2014  
 Time of Use: 11:34 AM

377

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**WORKER BY:**

Company Name: **STARRS ANALYTICAL SERVICES LTD.**  
 Account Payable  
 8022 - 1520 Blaine Street  
 NORTH VANCOUVER BC V7T 1B7  
 (604) 288-0288  
 sales@starrsanal.com | sales@starrsanal.com


**Project Information:**

Company Ref: **ANALYST**  
 Project Name: **ANALYST**  
 Address: **ANALYST**  
 Phone: **ANALYST**  
 Email: **ANALYST**

**Project Information:**

Order # **B7725**  
 P.O. # **5738-AB**  
 Project # **5738-AB**  
 Project Manager

**C013007\_COC**

Barcode: 

**REGULATORY:**

CAN  
 US  
 BC (see County)  
 OTHER

**REGULATORY (continued):**

Material must be kept cool (15°C) from time of sampling until delivery to the lab

Sample ID/Location	Sample Location/Description	Time Sampled	Time Delivered	Notes	Material must be kept cool (15°C)	Lead to On-going Work
1	5138-44A	2/16/24	6:30	Water	✓	✓
2	5138-44B				✓	✓
3	5138-45A				✓	✓
4	5138-45B				✓	✓
5	5138-46A				✓	✓
6	5138-46B				✓	✓
7	5138-47A				✓	✓
8	5138-47B				✓	✓
9	5138-48A				✓	✓
10	5138-48B				✓	✓

**RECEIVED BY:** Deborah Kinsler Date: 2/16/24 Time: 11:00

**RECEIVED BY:** Deborah Kinsler Date: 2/16/24 Time: 11:00

**LAB USE ONLY:** Temperature: 9.7 °C, Humidity: 81%

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Invoice # 811468 XPII TFC OPS SERVICES LTD  
 Accounts Payable  
 1505 Bannock Street  
 NORTH WALK, SUITE 107  
 DUNEDIN 9013  
 Email: xpiitfc@xpiitfc.com, dunn@xpiitfc.com

Project Information  
 Company Name: XPII TFC  
 Contact Name: Andrew Bards  
 Project # 871255  
 Project Name: 871255-AR  
 Project Manager: [Blank]

Invoice Date: 2/12/14  
 Invoice To: [Blank]

Regular Invoice   
 PO Invoice   
 PO Quote   
 Other

Samples MUST BE KEPT COOL (4-10°C) FROM TIME OF SAMPLE COLLECTION DELIVERY TO BY LABS

Sample Barcode Label	Sample Description	Date Collected	Time Collected	Notes	Lab Use Only
9738-44A		23/01/14	6:45 AM	WCH	✓
9738-44B					✓
9738-50A					✓
9738-50B					✓
9738-51A					✓
9738-51B					✓
9738-52A					✓
9738-52B					✓
9738-53A					✓
9738-53B					✓

RECEIVED BY: [Signature] DATE: 2/12/14 TIME: 11:30 AM  
 PROJECT MANAGER: [Signature] DATE: 2/12/14 TIME: 11:30 AM

TERMS AND CONDITIONS: [Blank]

05/14

Quality Assurance  
4230 Central Exp. Highway, Delta, British Columbia Canada V9C 4R8 Tel: 604-937-1734 Fax: 604-937-1735 Toll Free: 1-800-363-5273

<b>INVOICE TO:</b>		<b>Project information:</b>		<b>Project Performance:</b>	
Company Name: <b>#11498 KINETIC OHS SERVICES LTD.</b> Contact Name: <b>Zoe Curtis Payne</b> Address: <b>#302 - 1120 Burrard Street</b> <b>NORTH VANCOUVER BC V7L 1B7</b> Phone: <b>(604) 266-0099</b> Email: <b>zocurtis@kineticohs.com harvey@kineticohs.com</b>		Contact Name: <b>Robert Bains</b> Address: _____ Phone: _____ Email: <b>rbains@kineticohs.com</b>		PROJECT # <b>B7122</b> SITE # _____ PROJECT # <b>B738-4B</b> DATE _____ SURVEYED BY _____	
Requested items: <input type="checkbox"/> CSR <input type="checkbox"/> CLME <input checked="" type="checkbox"/> RC Water Quality <input type="checkbox"/> Other _____		Special instructions: _____ ANALYSIS REQUIRED TO LOCATE: _____ Timearound Time (TAT) Request: _____		Barcode: <b>0019007_COC</b> Status Order #: _____ Project Manager: _____ Customer Sectors: _____	

**SAMPLES MUST BE KEPT COOL (+10°C) FROM TIME OF SAMPLING UNTIL DELIVERED TO LAB**

Order Sample Loc#	Sample Location/Description	Date Sampled	Time Sampled	Notes	Method and Product (LTD)	Level in Drinking Water
1	G <sup>1</sup> S738-54A	29/02/2014	7:00 AM			✓
2	S738-54B					✓
3	S738-55A					✓
4	S738-55B					✓
5	S738-56A					✓
6	S738-56B					✓
7	S738-57A					✓
8	S738-57B					✓
9	S738-58A					✓
10	S738-58B					✓

RECEIVED BY: <b>Robert Bains</b> Date: <b>29/02/2014</b> Time: <b>11:37</b>	RECEIVED BY: <b>Robert Bains</b> Date: <b>29/02/2014</b> Time: <b>11:37</b>	RECEIVED BY: <b>Robert Bains</b> Date: <b>29/02/2014</b> Time: <b>11:37</b>	RECEIVED BY: <b>Robert Bains</b> Date: <b>29/02/2014</b> Time: <b>11:37</b>	RECEIVED BY: <b>Robert Bains</b> Date: <b>29/02/2014</b> Time: <b>11:37</b>	RECEIVED BY: <b>Robert Bains</b> Date: <b>29/02/2014</b> Time: <b>11:37</b>
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\* CLIENTS OTHERWISE ADVISED TO SIGNIFY, WITHIN 10 DAYS OF DELIVERY IS SUBJECT TO LATEST STANDARD TERMS AND CONDITIONS. SIGNING OF THIS ORDER BY CUSTOMER REPRESENTATIVE IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR SERVICES AND AVAILABILITY.  
 \*\* IT IS THE RESPONSIBILITY OF THE RELATIONSHIP TO ENSURE THE ACCURACY OF THE DATA OF CUSTOMER RECORDS. AN EXCESSIVE OR CHANGING CUSTOMER RECORDS MAY RESULT IN NON-TYPICAL ANALYSES.



Page 2 of 2

1000 West Broadway, Vancouver, BC V6H 3G9, Canada  
 Tel: 604.273.3333 Fax: 604.273.3334 Email: info@kinetic.com

<b>PROJECT TO</b>		<b>Report Information</b>	<b>Project Information</b>			
Company Name: <b>811485 KINETIC OHS SERVICES LTD</b> Contact Name: <b>Accounts Payable</b> Address: <b>6702 - 1520 RAYMOND STREET</b> <b>NORTH VANCOUVER BC V7J 1B7</b> Phone: <b>(604) 568-0098</b> Email: <b>accounts@kineticohs.com harvey@kineticohs.com</b>	Contract Name: <b>Albert Gilling</b> Contract No.: <b>5738-4B</b> Project No.: <b>5738-4B</b> Job No.: <b>5738-4B</b> Job Name: <b>5738-4B</b> Job Description: <b>5738-4B</b>	Job No.: <b>871258</b> Job Name: <b>5738-4B</b> Job Description: <b>5738-4B</b> Job Location: <b>5738-4B</b> Job Start Date: <b>5738-4B</b> Job End Date: <b>5738-4B</b>	Barcode: <b>0013007_COC</b> Barcode: <b>0013007_COC</b> Barcode: <b>0013007_COC</b> Barcode: <b>0013007_COC</b>			
Regular Container: <input type="checkbox"/> 20L <input type="checkbox"/> 5L <input checked="" type="checkbox"/> 10L <input type="checkbox"/> 20L		Turnaround Time (TAT) Required: <input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Day <input type="checkbox"/> 3 Day <input type="checkbox"/> 4 Day <input type="checkbox"/> 5 Day				
<b>SAMPLES MUST BE KEPT COOL (+/- 4°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO LAB</b>						
Sample Return Label	Sample Container Identification	Date Collected	Time Collected	Site #	Material Used (mg/L)	Lead to Drilling Water
1	5738-64A	22/07/2010	9:00	Water	✓	✓
2	5738-64B				✓	✓
3	5738-65A				✓	✓
4	5738-65B				✓	✓
5	5738-66A				✓	✓
6	5738-66B				✓	✓
7	5738-67A				✓	✓
8	5738-67B				✓	✓
9	5738-68A				✓	✓
10	5738-68B				✓	✓
RECEIVED BY: <b>KAJIKAR</b> Date: <b>20/02/2010</b> Time: <b>14:17</b>	RECEIVED BY: <b>KAJIKAR</b> Date: <b>20/02/2010</b> Time: <b>14:17</b>	RECEIVED BY: <b>KAJIKAR</b> Date: <b>20/02/2010</b> Time: <b>14:17</b>	RECEIVED BY: <b>KAJIKAR</b> Date: <b>20/02/2010</b> Time: <b>14:17</b>			

2014-2015 FINE-TUNE OHS SERVICES LTD  
 ACCOUNTS PAYABLE  
 2340 BAYVIEW AVE. UNIT 107  
 SCARBOROUGH, ONTARIO M1S 5V7  
 TEL: (416) 291-1111  
 FAX: (416) 291-1112  
 WWW.FINE-TUNE.COM

Project Information  
 Project Name: **Amesl Essex**  
 Project # **5738-AB**  
 Project Manager: **AMESL**

Invoice TO: **Amesl Essex**  
 Invoice # **5738-AB**  
 Invoice Date **2014-08-14**  
 Invoice Period **2014-08-14**


Regular (Standard) SAT:   
 Job Disabling Month TAX:

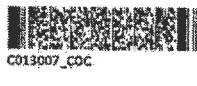
DATE	DESCRIPTION	QTY	UNIT PRICE	TOTAL	TAX	TOTAL TAX	NET TOTAL
1	5738-69A						
2	5738-AB						
3	5738-70A						
4	5738-70B						
5	5738-71A						
6	5738-71B						
7	5738-72A						
8	5738-72B						
9	5738-73A						
10	5738-73B						

RECEIVED BY: **AMESL**  
 DATE: **2014-08-14**

Shoreline Process Control (SPP) Inc.




**ANALYTICAL SERVICES**  
 10000 Highway 101, Suite 100, Richmond, BC V6V 1G9, Canada  
 Tel: (604) 273-1234 Fax: (604) 273-1234 Email: info@analyticalservices.com

<b>INVOICE TO:</b> Company Name: #11406 ANEPTIC OHS SERVICE LTD. Contact Name: Accounts Payable Address: #201 - 1520 Blenheim Street NORTH VANCOUVER BC V7J 8P7 Phone: (604) 588-8899 Email: accounts.payable@aneptic.com		<b>Report Information:</b> Reporting Period: August 2024 Contact Name: Annet Bains Address: [Blank] Phone: [Blank] Email: [Blank]		<b>Project Information:</b> Client # B-1255 Project # 0720-AB Project Name: [Blank] Job # [Blank] Name of Job: [Blank]	
<b>Invoice Details:</b> Invoice # C013007_COC Invoice Date: 2024-08-24 Due Date: 2024-09-09 Payment Terms: Net 30		<b>Barcode:</b>  C013007_COC		<b>Customer Details:</b> Billing Cycle: [Blank] Billing Address: [Blank]	

<b>Sample Information:</b> Sample ID: S738-74A Date Sampled: 23/02/2024 Time Sampled: 8:30 Matrix: water		<b>Analysis Requested (PLEASE BE SPECIFIC):</b> [Blank]		<b>Turnaround Time (TAT) Required:</b> [Blank]	
<b>Checklist:</b> <input type="checkbox"/> CUP <input type="checkbox"/> CUPC <input checked="" type="checkbox"/> NO Water Change <input type="checkbox"/> Other: [Blank]		<b>Checklist (continued):</b> <input type="checkbox"/> [Blank] <input type="checkbox"/> [Blank]		<b>Requesting TAT:</b> <input checked="" type="checkbox"/> 1 Day <input type="checkbox"/> 2 Day <input type="checkbox"/> 3 Day <input type="checkbox"/> 5 Day <input type="checkbox"/> 10 Day <input type="checkbox"/> Other: [Blank]	

Sample Current Label	Sample ID (Client/Reference)	Date Sampled	Time Sampled	Matrix	Checked and Tested (Y/N)	Lead in Drinking Water
099	S738-74A	23/02/2024	8:30	water	✓	✓
	S738-74B				✓	✓
	S738-75A				✓	✓
	S738-75B				✓	✓
	S738-76A				✓	✓
	S738-76B				✓	✓
	S738-77A				✓	✓
	S738-77B				✓	✓
	S738-78A				✓	✓
	S738-78B				✓	✓

<b>RECEIVED BY:</b> Deepak Karkar Date: 24/02/24 Time: 10:30 AM	<b>DATE RECEIVED:</b> 24/02/24 Time: 10:30 AM	<b>LAB USE ONLY:</b> Temperature: 17.0 Customer Site Agent: [Blank]
---	--	---

ANALYSIS REPORT ADDED TO BE PRINTED WORK (PRINTED ON THE CHAIN OF CUSTODY IS SUBJECT TO VARIOUS STANDARDS TERMS AND CONDITIONS. ISSUED ON THE CHAIN OF CUSTODY DOCUMENT IN ACCORDANCE AND ACCEPTANCE OF THE TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.ANALYTICALSERVICES.COM  
 IT IS THE RESPONSIBILITY OF THE CLIENT TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY PRESENT A LEGAL ISSUE. LAT DELAYS.



Invoice ID: 6013007\_COC

Customer Name: 311486 HOMETEC OHY SERVICES LTD  
 Accounts Payable  
 3102 - 1523 Bamber Street  
 NORTH VANCOUVER BC V7L 1B7  
 Phone: (604) 988-0000  
 Email: accounts@hometec.com

Supplier Name: Anson Signs  
 Address: 2704  
 Phone: 604-273-4433  
 Email: anson@hometec.com

Project Information: Project # 6013007, Project Name 6013007\_COC

Barcode: 08478005

Regular (Standard) TAX:  Yes  
 Standard (AT + ST) Inventory:  No  
 Job-Specific:  No

Item #	Item Name	Quantity	Unit	Price	Total	Notes
1	5738 - 84A	1	EA	14.00	14.00	✓
2	5738 - 84B	1	EA	14.00	14.00	✓
3	5738 - 85A	1	EA	14.00	14.00	✓
4	5738 - 85B	1	EA	14.00	14.00	✓
5	5738 - 86A	1	EA	14.00	14.00	✓
6	5738 - 86B	1	EA	14.00	14.00	✓
7	5738 - 87A	1	EA	14.00	14.00	✓
8	5738 - 87B	1	EA	14.00	14.00	✓
9	5738 - 88A	1	EA	14.00	14.00	✓
10	5738 - 88B	1	EA	14.00	14.00	✓

RECEIVED BY: [Signature] DATE: 09/19/09

DATE: 09/19/09

09/19/09

211488 KINETIC OHS SERVICES LTD  
 Absolute Pacific  
 2202 - 1520 Federal Street  
 NORTH VANCOUVER B.C. V7T 1E7  
 (604) 988-0089  
 8004188@kineticohs.com kineticohs@kineticohs.com

Project Information  
 0113007\_COC  
 08478006

Regular (Blooded) Test  
 Checked (TAT < 24 hrs)  
 Not Checked (TAT > 24 hrs)  
 Not Checked (TAT > 24 hrs)

Sample Number	Sample Location	Date/Time	Time Sampled	Notes	Lead in Drinking Water
1	5738-894	07/07/2014	9:00	water	✓
2	5738-895				✓
3	5738-90A				✓
4	5738-90B				✓
5	5738-91A				✓
6	5738-91B				✓
7	5738-92A				✓
8	5738-92B				✓
9	5738-93A				✓
10	5738-93B				✓

Analyzed by: Michelle Fokke Date: 07/07/2014 Time: 10:00  
 Analyzed by: Michelle Fokke Date: 07/07/2014 Time: 10:00

1. KINETIC OHS SERVICE AGREEMENT TO BE PRINTED AND SIGNED BY CUSTOMER AT TIME OF DELIVERY OF SAMPLES.  
 2. IT IS THE RESPONSIBILITY OF THE CLIENT TO ENSURE THE ACCURACY OF THE DATA IN THE COPY OF THIS REPORT.

Page 3 of 14

**INVOICE NO.** #11450: KINETIC OHS SERVICES LTD.  
**Customer Name:** Accounts Payable  
**Address:** #302 - 1520 Bayview Street  
**Phone:** (403) 520-3377  
**Fax:** (403) 520-3377  
**Email:** accounts@kineticohs.com

**Project Information:**  
**Customer #:** P/1255  
**Project #:** 5230-208  
**Invoice #:** 08478009

**Regular / Standard TBT:**  
 Use the standard TBT for all specimens  
 Use the standard TBT for all specimens except for flow lines  
 Use the standard TBT for all specimens except for flow lines and 20% of all other specimens  
 Use the standard TBT for all specimens except for flow lines and 20% of all other specimens and 20% of all other specimens

**Specimen Type:**  TBT  TBT  TBT  TBT

**Batch / Confirmation Number:** \_\_\_\_\_

Sample No.	Sample & Matrix Description	Time Sampled	Time Analyzed	Matrix	Lead in Drinking Water
1	5738-94A	27/03/2010	9:30	Water	✓
2	5738-91B				✓
3	5738-95B				✓
4	5738-95B				✓
5	5738-96A				✓
6	5738-96B				✓
7	5738-97A				✓
8	5738-97B				✓
9	5738-94A				✓
10	5738-93B				✓

**RECEIVED BY (Signature/Print):** \_\_\_\_\_  
**Date (YYYYMMDD):** 20100329

**RECEIVED BY (Signature/Print):** J. KAPLAN  
**Date (YYYYMMDD):** 20100329

UNLESS OTHERWISE ADVISED TO A HIGHER WORK QUALITY BY THE CHAIR OF QUALITY IS SUBJECT TO BY LAB'S STANDARD TERMS AND CONDITIONS. WORKING OF THIS CHAIR OF QUALITY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR RESPONSIBILITY FOR THE ACCURACY OF THE DATA OF THIS CHAIR OF QUALITY. AN UNQUALIFIED CHAIR OF QUALITY MAY BE SUBJECT TO ANNUAL (TYPICAL) TESTS.





Your Project #: 5738-AB

**Attention: Aneet Bains**  
KINETIC OHS SERVICES LTD.  
#202 – 1520 Barrow Street  
NORTH VANCOUVER, BC  
CANADA V7J 1B7

Your C.O.C. #: 605357-05-01, 605357-06-01, 605357-07-01, 605357-08-01, 605357-10-01, 605357-11-01, 605357-12-01, 605357-13-01, 605357-14-01, 605357-15-01, 605357-16-01, 605357-17-01, 605357-18-01, 605357-19-01, 605357-20-01, 605357-21-01, 605357-02-01

**Report Date: 2020/03/09**  
Report #: R2855552  
Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

**BV LABS JOB #: C015283**  
**Received: 2020/03/02, 11:13**  
Sample Matrix: Water  
# Samples Received: 84

Analyses	Quantity	Date		Laboratory Method	Analytical Method
		Extracted	Analyzed		
Lead in DW Average	30	2020/03/02	2020/03/05		
Lead in DW Average	53	2020/03/02	2020/03/06		
Lead in Drinking Water	81	2020/03/04	2020/03/05	AB SOP-00014 / AB SOP-00043	EPA 6020b R2 m
Lead in Drinking Water	3	2020/03/04	2020/03/06	AB SOP-00014 / AB SOP-00043	EPA 6020b R2 m
Lead in Drinking Water	34	2020/03/03	2020/03/04	AB SOP-00014 / AB SOP-00043	EPA 6020b R2 m
Lead in Drinking Water	3	2020/03/03	2020/03/05	AB SOP-00014 / AB SOP-00043	EPA 6020b R2 m
Lead in Drinking Water	4	2020/03/03	2020/03/06	AB SOP-00014 / AB SOP-00043	EPA 6020b R2 m
Lead in Drinking Water	42	2020/03/04	2020/03/05	AB SOP-00014 / AB SOP-00043	EPA 6020b R2 m

**Remarks:**

Bureau Veritas Laboratories are accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by BV Labs are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in BV Labs profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and BV Labs in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

BV Labs liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. BV Labs has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by BV Labs, unless otherwise agreed in writing. BV Labs is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.



Your Project #: 5738-AB

**Attention: Aneet Bains**

KINETIC OHS SERVICES LTD.  
#202 – 1520 Barrow Street  
NORTH VANCOUVER, BC  
CANADA V7J 1B7

Your C.O.C. #: 605357-05-01, 605357-06-01, 605357-07-01, 605357-08-01, 605357-10-01, 605357-11-01, 605357-12-01, 605357-13-01, 605357-14-01, 605357-15-01, 605357-16-01, 605357-17-01, 605357-18-01, 605357-19-01, 605357-20-01, 605357-21-01, 605357-02-01

Report Date: 2020/03/09  
Report #: R2855552  
Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

**BV LABS JOB #: C015283**

**Received: 2020/03/02, 11:13**

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by BV Labs, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key



Please direct all questions regarding this Certificate of Analysis to your Project Manager.  
Customer Solutions, Western Canada Customer Experience Team  
Email: customersolutionswest@bvlab.com  
Phone# (604) 734 7276

=====  
This report has been generated and distributed using a secure automated process.  
BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.





BV Labs Job #: C015283  
Report Date: 2020/03/09

KINETIC OHS SERVICES LTD.  
Client Project #: 5738-AB

**ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)**

<b>BV Labs ID</b>		XM1550	XM1551	XM1552		XM1553	XM1554		
<b>Sampling Date</b>		2020/03/01 08:30	2020/03/01 08:30	2020/03/01 08:30		2020/03/01 08:30	2020/03/01 08:30		
<b>COC Number</b>		605357-05-01	605357-05-01	605357-05-01		605357-05-01	605357-05-01		
	<b>UNITS</b>	<b>5738-104</b>	<b>5738-105</b>	<b>5738-106</b>	<b>QC Batch</b>	<b>5738-107</b>	<b>5738-108</b>	<b>RDL</b>	<b>QC Batch</b>

<b>Elements</b>									
Total Lead (Pb)	mg/L	<0.00020	<0.00020	0.0046	9785968	0.11	0.00033	0.00020	9785968
Second bottle Total Lead (Pb)	mg/L	<0.00020	<0.00020	0.0044	9785286	0.10 (1)	0.00075	0.00020	9785300
Average Total Lead (Pb)	mg/L	<0.00020	<0.00020	0.0045	9782646	0.11	0.00054	0.00020	9782646
RDL = Reportable Detection Limit (1) Matrix Spike outside acceptance criteria due to sample matrix interference.									

<b>BV Labs ID</b>		XM1560	XM1561		XM1562	XM1563	XM1564		
<b>Sampling Date</b>		2020/03/01 08:30	2020/03/01 08:30		2020/03/01 08:30	2020/03/01 08:30	2020/03/01 08:30		
<b>COC Number</b>		605357-06-01	605357-06-01		605357-06-01	605357-06-01	605357-06-01		
	<b>UNITS</b>	<b>5738-109</b>	<b>5738-110</b>	<b>QC Batch</b>	<b>5738-111</b>	<b>5738-112</b>	<b>5738-113</b>	<b>RDL</b>	<b>QC Batch</b>

<b>Elements</b>									
Total Lead (Pb)	mg/L	0.017	0.00021	9785968	0.00085	0.0010	0.0016	0.00020	9785968
Second bottle Total Lead (Pb)	mg/L	0.0023	<0.00020	9785313	<0.00020	0.00079	0.0015	0.00020	9785300
Average Total Lead (Pb)	mg/L	0.0095	<0.00020	9782646	0.00043	0.00091	0.0016	0.00020	9782646
RDL = Reportable Detection Limit									

<b>BV Labs ID</b>		XM1565	XM1566	XM1567	XM1568	XM1569	XM1570		
<b>Sampling Date</b>		2020/03/01 08:30	2020/03/01 09:00	2020/03/01 09:00	2020/03/01 09:00	2020/03/01 09:00	2020/03/01 09:15		
<b>COC Number</b>		605357-07-01	605357-07-01	605357-07-01	605357-07-01	605357-07-01	605357-08-01		
	<b>UNITS</b>	<b>5738-114</b>	<b>5738-115</b>	<b>5738-116</b>	<b>5738-117</b>	<b>5738-118</b>	<b>5738-119</b>	<b>RDL</b>	<b>QC Batch</b>

<b>Elements</b>									
Total Lead (Pb)	mg/L	<0.00020	<0.00020	0.00080	0.0061	0.0014	0.00074	0.00020	9785968
Second bottle Total Lead (Pb)	mg/L	<0.00020	<0.00020	0.0021	0.0027	<0.00020	0.00031	0.00020	9785300
Average Total Lead (Pb)	mg/L	<0.00020	<0.00020	0.0015	0.0044	0.00070	0.00053	0.00020	9782646
RDL = Reportable Detection Limit									

<b>BV Labs ID</b>		XM1571	XM1572	XM1573		XM1574	XM1579		
<b>Sampling Date</b>		2020/03/01 09:15	2020/03/01 09:15	2020/03/01 09:15		2020/03/01 09:15	2020/03/01 09:30		
<b>COC Number</b>		605357-08-01	605357-08-01	605357-08-01		605357-08-01	605357-10-01		
	<b>UNITS</b>	<b>5738-120</b>	<b>5738-121</b>	<b>5738-122</b>	<b>QC Batch</b>	<b>5738-123</b>	<b>5738-124</b>	<b>RDL</b>	<b>QC Batch</b>

<b>Elements</b>									
Total Lead (Pb)	mg/L	<0.00020	<0.00020	0.00039	9785968	<0.00020	0.0020	0.00020	9785973
Second bottle Total Lead (Pb)	mg/L	<0.00020	<0.00020	<0.00020	9785300	<0.00020	0.00031	0.00020	9785300
Average Total Lead (Pb)	mg/L	<0.00020	<0.00020	<0.00020	9782646	<0.00020	0.0011	0.00020	9782646
RDL = Reportable Detection Limit									



BV Labs Job #: C015283  
Report Date: 2020/03/09

KINETIC OHS SERVICES LTD.  
Client Project #: 5738-AB

**ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)**

<b>BV Labs ID</b>		XM1580	XM1581	XM1582		XM1583	XM1584		
<b>Sampling Date</b>		2020/03/01 09:30	2020/03/01 09:30	2020/03/01 09:30		2020/03/01 09:30	2020/03/01 09:30		
<b>COC Number</b>		605357-10-01	605357-10-01	605357-10-01		605357-10-01	605357-11-01		
	<b>UNITS</b>	<b>5738-125</b>	<b>5738-126</b>	<b>5738-127</b>	<b>QC Batch</b>	<b>5738-128</b>	<b>5738-129</b>	<b>RDL</b>	<b>QC Batch</b>

<b>Elements</b>									
Total Lead (Pb)	mg/L	0.0010	0.0011	<0.00020	9785973	<0.00020	0.0032	0.00020	9785973
Second bottle Total Lead (Pb)	mg/L	<0.00020	0.00030	<0.00020	9785900	<0.00020	0.00030	0.00020	9785313
Average Total Lead (Pb)	mg/L	0.00052	0.00071	<0.00020	9782646	<0.00020	0.0017	0.00020	9782646

RDL = Reportable Detection Limit

<b>BV Labs ID</b>		XM1585	XM1586	XM1587		XM1588	XM1589		
<b>Sampling Date</b>		2020/03/01 09:30	2020/03/01 09:30	2020/03/01 09:30		2020/03/01 09:30	2020/03/01 09:45		
<b>COC Number</b>		605357-11-01	605357-11-01	605357-11-01		605357-11-01	605357-12-01		
	<b>UNITS</b>	<b>5738-130</b>	<b>5738-131</b>	<b>5738-132</b>	<b>QC Batch</b>	<b>5738-133</b>	<b>5738-134</b>	<b>RDL</b>	<b>QC Batch</b>

<b>Elements</b>									
Total Lead (Pb)	mg/L	0.0036	0.00060	0.00094	9785973	0.0012	<0.00020	0.00020	9785973
Second bottle Total Lead (Pb)	mg/L	0.00058	0.00052	0.00092	9785848	0.00040	<0.00020	0.00020	9785313
Average Total Lead (Pb)	mg/L	0.0021	0.00056	0.00093	9782646	0.00081	<0.00020	0.00020	9782646

RDL = Reportable Detection Limit

<b>BV Labs ID</b>		XM1590	XM1591	XM1592	XM1593	XM1594	XM1595		
<b>Sampling Date</b>		2020/03/01 09:45	2020/03/01 09:45	2020/03/01 09:45	2020/03/01 09:45	2020/03/01 09:45	2020/03/01 09:45		
<b>COC Number</b>		605357-12-01	605357-12-01	605357-12-01	605357-12-01	605357-13-01	605357-13-01		
	<b>UNITS</b>	<b>5738-135</b>	<b>5738-136</b>	<b>5738-137</b>	<b>5738-138</b>	<b>5738-139</b>	<b>5738-140</b>	<b>RDL</b>	<b>QC Batch</b>

<b>Elements</b>									
Total Lead (Pb)	mg/L	<0.00020	0.13	0.11	0.016	0.45	0.0058	0.00020	9785973
Second bottle Total Lead (Pb)	mg/L	<0.00020	0.053	0.11	0.0015	0.30	0.0022	0.00020	9785848
Average Total Lead (Pb)	mg/L	<0.00020	0.091	0.11	0.0087	0.37	0.0040	0.00020	9782646

RDL = Reportable Detection Limit

<b>BV Labs ID</b>		XM1596		XM1597	XM1598	XM1599		
<b>Sampling Date</b>		2020/03/01 09:45		2020/03/01 09:45	2020/03/01 09:45	2020/03/01 10:00		
<b>COC Number</b>		605357-13-01		605357-13-01	605357-13-01	605357-14-01		
	<b>UNITS</b>	<b>5738-141</b>	<b>QC Batch</b>	<b>5738-142</b>	<b>5738-143</b>	<b>5738-144</b>	<b>RDL</b>	<b>QC Batch</b>

<b>Elements</b>									
Total Lead (Pb)	mg/L	0.0073	9785973	0.0049	0.12	0.060	0.00020	9785973	
Second bottle Total Lead (Pb)	mg/L	0.0023	9785848	0.0053	0.076	0.024	0.00020	9785313	
Average Total Lead (Pb)	mg/L	0.0048	9782646	0.0051	0.099	0.042	0.00020	9782646	

RDL = Reportable Detection Limit



**ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)**

BV Labs ID		XM1600	XM1601	XM1602	XM1603	XM1604		
Sampling Date		2020/03/01 10:00	2020/03/01 10:00	2020/03/01 10:00	2020/03/01 10:00	2020/03/01 10:15		
COC Number		605357-14-01	605357-14-01	605357-14-01	605357-14-01	605357-15-01		
	UNITS	5738-145	5738-146	5738-147	5738-148	5738-149	RDL	QC Batch
<b>Elements</b>								
Total Lead (Pb)	mg/L	0.013	0.092	0.019	0.0060	0.016	0.00020	9785978
Second bottle Total Lead (Pb)	mg/L	0.0012	0.013	0.0034	0.00096	0.0037	0.00020	9785848
Average Total Lead (Pb)	mg/L	0.0069	0.053	0.011	0.0035	0.0096	0.00020	9782646
RDL = Reportable Detection Limit								

BV Labs ID		XM1605	XM1606	XM1607	XM1608		XM1609		
Sampling Date		2020/03/01 10:15	2020/03/01 10:15	2020/03/01 10:15	2020/03/01 10:15		2020/03/01 10:30		
COC Number		605357-15-01	605357-15-01	605357-15-01	605357-15-01		605357-16-01		
	UNITS	5738-150	5738-151	5738-152	5738-153	RDL	5738-154	RDL	QC Batch
<b>Elements</b>									
Total Lead (Pb)	mg/L	0.013	0.039	0.0056	0.0097	0.00020	0.56	0.00020	9785978
Second bottle Total Lead (Pb)	mg/L	0.0055	0.049	0.00075	0.0015	0.00020	2.2	0.0010	9785313
Average Total Lead (Pb)	mg/L	0.0091	0.044	0.0032	0.0056	0.00020	1.4	0.00020	9782646
RDL = Reportable Detection Limit									

BV Labs ID		XM1610	XM1611	XM1612	XM1613	XM1614		
Sampling Date		2020/03/01 10:30	2020/03/01 10:30	2020/03/01 10:30	2020/03/01 10:30	2020/03/01 10:45		
COC Number		605357-16-01	605357-16-01	605357-16-01	605357-16-01	605357-17-01		
	UNITS	5738-155	5738-156	5738-157	5738-158	5738-159	RDL	QC Batch
<b>Elements</b>								
Total Lead (Pb)	mg/L	0.015	0.0078	0.016	0.015	0.048	0.00020	9785978
Second bottle Total Lead (Pb)	mg/L	0.077	0.0015	0.0072	0.0071	0.086	0.00020	9785313
Average Total Lead (Pb)	mg/L	0.046	0.0046	0.011	0.011	0.067	0.00020	9782646
RDL = Reportable Detection Limit								

BV Labs ID		XM1615		XM1616	XM1617	XM1618		
Sampling Date		2020/03/01 10:45		2020/03/01 10:45	2020/03/01 10:45	2020/03/01 10:45		
COC Number		605357-17-01		605357-17-01	605357-17-01	605357-17-01		
	UNITS	5738-160	QC Batch	5738-161	5738-162	5738-163	RDL	QC Batch
<b>Elements</b>								
Total Lead (Pb)	mg/L	0.0018	9785978	0.012 (1)	0.00092	0.0010	0.00020	9785981
Second bottle Total Lead (Pb)	mg/L	0.0013	9785848	0.013	0.00058	0.0024	0.00020	9785848
Average Total Lead (Pb)	mg/L	0.0016	9782646	0.012	0.00075	0.0017	0.00020	9782646
RDL = Reportable Detection Limit								
(1) Matrix Spike outside acceptance criteria due to sample matrix interference.								



BV Labs Job #: C015283  
Report Date: 2020/03/09

KINETIC OHS SERVICES LTD.  
Client Project #: 5738-AB

**ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)**

<b>BV Labs ID</b>		XM1619	XM1620	XM1621	XM1622	XM1623	XM1624		
<b>Sampling Date</b>		2020/03/01 11:00	2020/03/01 11:00	2020/03/01 11:00	2020/03/01 11:00	2020/03/01 11:00	2020/03/01 11:30		
<b>COC Number</b>		605357-18-01	605357-18-01	605357-18-01	605357-18-01	605357-18-01	605357-19-01		
	<b>UNITS</b>	<b>5738-164</b>	<b>5738-165</b>	<b>5738-166</b>	<b>5738-167</b>	<b>5738-168</b>	<b>5738-169</b>	<b>RDL</b>	<b>QC Batch</b>

<b>Elements</b>									
Total Lead (Pb)	mg/L	0.0011	0.00063	0.00097	0.0022	0.00040	0.0034	0.00020	9785981
Second bottle Total Lead (Pb)	mg/L	0.00052	0.00060	0.00029	0.0027	0.00025	0.0012	0.00020	9785852
Average Total Lead (Pb)	mg/L	0.00081	0.00061	0.00063	0.0024	0.00033	0.0023	0.00020	9782646
RDL = Reportable Detection Limit									

<b>BV Labs ID</b>		XM1625	XM1626	XM1627		XM1628		
<b>Sampling Date</b>		2020/03/01 11:30	2020/03/01 11:30	2020/03/01 11:30		2020/03/01 11:30		
<b>COC Number</b>		605357-19-01	605357-19-01	605357-19-01		605357-19-01		
	<b>UNITS</b>	<b>5738-170</b>	<b>5738-171</b>	<b>5738-172</b>	<b>RDL</b>	<b>5738-173</b>	<b>RDL</b>	<b>QC Batch</b>

<b>Elements</b>									
Total Lead (Pb)	mg/L	0.0018	0.011	0.018	0.00020	1.5	0.0010	9785981	
Second bottle Total Lead (Pb)	mg/L	0.0022	0.0037	0.0029	0.00020	0.035	0.00020	9785852	
Average Total Lead (Pb)	mg/L	0.0020	0.0075	0.010	0.00020	0.75	0.00020	9782646	
RDL = Reportable Detection Limit									

<b>BV Labs ID</b>		XM1629	XM1630	XM1631	XM1632	XM1633	XM1634		
<b>Sampling Date</b>		2020/03/01 12:00	2020/03/01 12:00	2020/03/01 12:00	2020/03/01 12:00	2020/03/01 12:00	2020/03/01 12:30		
<b>COC Number</b>		605357-20-01	605357-20-01	605357-20-01	605357-20-01	605357-20-01	605357-21-01		
	<b>UNITS</b>	<b>5738-174</b>	<b>5738-175</b>	<b>5738-176</b>	<b>5738-177</b>	<b>5738-178</b>	<b>5738-179</b>	<b>RDL</b>	<b>QC Batch</b>

<b>Elements</b>									
Total Lead (Pb)	mg/L	0.00077	0.00028	0.0011	0.0020	0.0083	0.00082	0.00020	9785981
Second bottle Total Lead (Pb)	mg/L	0.00021	<0.00020	0.00076	0.0013	0.0018	0.00039	0.00020	9785852
Average Total Lead (Pb)	mg/L	0.00049	<0.00020	0.00092	0.0017	0.0050	0.00060	0.00020	9782646
RDL = Reportable Detection Limit									

<b>BV Labs ID</b>		XM1635	XM1636	XM1637		XM1638		
<b>Sampling Date</b>		2020/03/01 12:30	2020/03/01 12:30	2020/03/01 12:30		2020/03/01 12:30		
<b>COC Number</b>		605357-21-01	605357-21-01	605357-21-01		605357-21-01		
	<b>UNITS</b>	<b>5738-180</b>	<b>5738-181</b>	<b>5738-182</b>	<b>QC Batch</b>	<b>5738-183</b>	<b>RDL</b>	<b>QC Batch</b>

<b>Elements</b>									
Total Lead (Pb)	mg/L	0.00086	0.0020	0.00060	9785989	0.0017	0.00020	9785989	
Second bottle Total Lead (Pb)	mg/L	0.00048	0.00052	0.00049	9785852	0.00076	0.00020	9785865	
Average Total Lead (Pb)	mg/L	0.00067	0.0013	0.00054	9782646	0.0012	0.00020	9782646	
RDL = Reportable Detection Limit									



**BUREAU VERITAS**

BV Labs Job #: C015283  
Report Date: 2020/03/09

KINETIC OHS SERVICES LTD.  
Client Project #: 5738-AB

**ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)**

BV Labs ID		XM1639			XM1640	XM1641	XM1642		
Sampling Date		2020/03/01 13:00			2020/03/01 13:00	2020/03/01 13:00	2020/03/01 13:00		
COC Number		605357-02-01			605357-02-01	605357-02-01	605357-02-01		
	UNITS	5738-184	RDL	QC Batch	5738-185	5738-186	5738-187	RDL	QC Batch
<b>Elements</b>									
Total Lead (Pb)	mg/L	0.0021	0.00020	9785989	0.0034	0.0046	0.013	0.00020	9785989
Second bottle Total Lead (Pb)	mg/L				0.00082	0.0025	0.023	0.00020	9785865
Average Total Lead (Pb)	mg/L				0.0021	0.0035	0.018	0.00020	9782646
RDL = Reportable Detection Limit									



BUREAU  
VERITAS

BV Labs Job #: C015283  
Report Date: 2020/03/09

KINETIC OHS SERVICES LTD.  
Client Project #: 5738-AB

#### GENERAL COMMENTS

##### ELEMENTS BY ATOMIC SPECTROSCOPY (WATER) Comments

Sample XM1609 [5738-154] Lead in Drinking Water: RDL raised due to concentration over linear range, sample dilution required.  
Sample XM1628 [5738-173] Lead in Drinking Water: RDL raised due to concentration over linear range, sample dilution required.

**Results relate only to the items tested.**



QUALITY ASSURANCE REPORT

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9785286	Second bottle Total Lead (Pb)	2020/03/05	96	80 - 120	94	80 - 120	<0.00020	mg/L	0.56	20
9785300	Second bottle Total Lead (Pb)	2020/03/04	NC	80 - 120	96	80 - 120	<0.00020	mg/L	0.59	20
9785313	Second bottle Total Lead (Pb)	2020/03/04	102	80 - 120	96	80 - 120	<0.00020	mg/L	2.6	20
9785848	Second bottle Total Lead (Pb)	2020/03/05	103	80 - 120	101	80 - 120	<0.00020	mg/L	4.4	20
9785852	Second bottle Total Lead (Pb)	2020/03/05	98	80 - 120	94	80 - 120	<0.00020	mg/L	0.86	20
9785865	Second bottle Total Lead (Pb)	2020/03/05	95	80 - 120	96	80 - 120	<0.00020	mg/L	0.52	20
9785968	Total Lead (Pb)	2020/03/05	102	80 - 120	101	80 - 120	<0.00020	mg/L	NC	20
9785973	Total Lead (Pb)	2020/03/05	104	80 - 120	103	80 - 120	<0.00020	mg/L	2.2	20
9785978	Total Lead (Pb)	2020/03/05	102	80 - 120	100	80 - 120	<0.00020	mg/L	0.24	20
9785981	Total Lead (Pb)	2020/03/05	123 (1)	80 - 120	95	80 - 120	<0.00020	mg/L	2.6	20
9785989	Total Lead (Pb)	2020/03/05	97	80 - 120	95	80 - 120	<0.00020	mg/L	0.73	20

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.



BV Labs Job #: C015283  
Report Date: 2020/03/09

KINETIC OHS SERVICES LTD.  
Client Project #: 5738-AB

### VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

A handwritten signature in black ink, appearing to read "D. Huang", written over a horizontal line.

David Huang, M.Sc., P.Chem., QP, Scientific Services Manager

---

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports.  
For Service Group specific validation please refer to the Validation Signature Page.



Company Name: **B11426 KINETIC OMS SERVICES LTD**  
 Account Name: **Accounts Payable**  
 Address: **1022 - 1529 BURNABY STREET**  
**NORTH VANCOUVER BC V2T 1B7**  
 Phone: **(604) 298-4069**  
 Email: **accounts@kineticoms.com, kinetic@kineticoms.com**

Report Information:  
 Company Name: **Arrest Beets**  
 Project Information:  
 Order # **B7155**  
 Project # **5738-AR**  
**C015283\_COC**

Signature of Client: \_\_\_\_\_  
 Signature of Inspector: \_\_\_\_\_  
 Date: \_\_\_\_\_  
 Time: \_\_\_\_\_

Sample Location Label	Section / Location Description	Date Sampled	Time Sampled	Media	Notes	Lead in Drinking Water
1	5738-104A	11/15/20	~ 9:00	Water		✓
2	5738-104B					✓
3	5738-105A					✓
4	5738-105B					✓
5	5738-106A					✓
6	5738-106B					✓
7	5738-107A					✓
8	5738-107B					✓
9	5738-108A					✓
10	5738-108B					✓

RECEIVED BY: **ARREST BEETS** Date: **11/15/20** Time: **11:13**  
 Lab Use Only: **11.13.20**

104

Always wear your PPE!

4

02/19

**Customer Name:** #11486 KINETIC OHS SERVICES LTD.  
**Contact Name:** Accounts Payable  
**Address:** 4027 - 1530 Burnow Street  
 NORTH VANCOUVER BC V7J 1B7  
**Phone:** (604) 688-3298  
**Email:** accounts@kineticohs.com / osh@kineticohs.com

**Report Information:**  
**Company Name:** Kinetic OHS Services Ltd.  
**Account Name:** Account Balance

**Project Information:**  
**Project ID:** B11250  
**Project Name:** C015283\_COC  
**Client:** 42-22-048  
**Contract No.:** 42-22-048

**Client Order #:** [Barcode]

**Project Manager:** [Barcode]

**Customer Service:** [Barcode]

**Regulatory Codes:**

OHS  
 OSM  
 OHS/OSM Query  
 OSM

Sample ID	Sample Location	Sample Description	Sample Date	Time Sampled	Result	Notes
1		S738-109A	07/07/20	8:30	2047	
2		S738-109B				✓
3		S738-110A				✓
4		S738-110B				✓
5		S738-111A				✓
6		S738-111B				✓
7		S738-112A				✓
8		S738-112B				✓
9		S738-113A				✓
10		S738-113B				✓

**Summary:** **Collected by:** [Signature] **Date:** 02/19/20 **Time:** 11:02

**Notes:** [Handwritten notes]

Revised Version: 1/20/18 (2018) inc.












847


 Thank you for your business  
 10000 150th Street, Surrey, BC V4N 1C7, Canada  
 Tel: (604) 598-0000 Fax: (604) 598-0000  
 www.kineticdwr.com

<b>Company Name:</b> #11488 KINETIC DWR SERVICES LTD <b>Account Name:</b> Accounts Payable <b>Address:</b> 2027 - 152C Bannock Street NORTH VANCOUVER BC V7J 1B7 <b>Phone:</b> (604) 988-0000 <b>Fax:</b> (604) 988-0000 <b>Email:</b> accounts@kineticdwr.com / sales@kineticdwr.com		<b>Project Information:</b> <b>Customer Name:</b> Ansel built <b>Project #:</b> 5738 AB <b>Company:</b>		<b>Project Reference:</b> 0015283_COC	<b>Order #:</b> <b>Project Manager:</b>	
<b>Regulatory Criteria:</b> <input type="checkbox"/> IOT <input type="checkbox"/> IOM <input checked="" type="checkbox"/> EC Water Quality <input type="checkbox"/> Other:		<b>Sampling Information:</b> Date of Sampling: 01/07/20 Time of Sampling: 9:45 AM Location: [Blank]				
SAMPLE MUST BE KEPT COOL IN ICE FROM TIME OF SAMPLING UNTIL DELIVERED TO BY LABS						
Sample ID	Sample Location / Description	Date	Time	Flow	Notes	Lab
1	5738-139A	01/07/20	9:45	↓	✓	
2	5738-139B				✓	
3	5738-140A				✓	
4	5738-140B				✓	
5	5738-142A				✓	
6	5738-142B				✓	
7	5738-142A				✓	
8	5738-142B				✓	
9	5738-143A				✓	
10	5738-143B				✓	



7/17

**Company Name:** #11385 KINETIC OHS SERVICES LTD  
**Contact Name:** Accounts Payable  
**Address:** 4000 - 1600 Bannock Street  
 NORTH VANCOUVER BC V7J 1B1  
**Phone:** (604) 968-0056  
**Fax:** accounts@kineticohs.com; kineticohs@kineticohs.com

**Project Information:**  
**Project Name:** 871285  
**Project Code:** S738-AB  
**Project Manager:**  
**Customer Number:**

**Barcode:** C015283\_COC

DRY  
 OIL  
 NO FUEL OIL  
 Other

Sample Name Label	Sample Number	Date Sampled	Time Sampled	Notes	Lead in Drinking Water
	S738-144A	01/05/16	10:00	WATER	✓
	S738-144B				✓
	S738-145A				✓
	S738-145B				✓
	S738-146A				✓
	S738-146B				✓
	S738-147A				✓
	S738-147B				✓
	S738-148A				✓
	S738-148B				✓

**Test Method:** MUSE 1.016  
**Date:** 01/05/16  
**Time:** 11:16  
**Operator:** ANDREW ANDERSON  
**Sample ID:** S738-AB  
**Time:** 11:16  
**Job Number:** NA

\* USE OF CHEMICALS ASSOCIATED WITH THIS SERVICE IS SUBJECT TO THE CANADIAN CERTIFICATION SUBJECT TO THE CANADIAN STANDARDS ASSOCIATION. OWNERS OF THIS EQUIPMENT SHOULD BE AWARE OF THE REQUIREMENTS AND CERTIFICATIONS OF OUR TESTS WHICH ARE AVAILABLE FOR VIEWING AT WWW.EPA.CA/CERTIFICATION/TESTING. \*\* IF THE ACCURACY OF THE RESULTS IS TO BE THE RESPONSIBILITY OF THE CLIENT, ALL THE NECESSARY PREPARATION AND ANALYTICAL TESTS MUST BE COMPLETED.







1000 Lakeshore Blvd. West, Suite 1000, Vancouver, BC V6C 1A6, Canada  
 Tel: 604.273.7279, Fax: 604.273.7280, Email: info@kineticchs.com, Website: www.kineticchs.com

**ADDRES TO:** Project Information  
 Company Name: **811496 KINETIC CHS SERVICES LTD**  
 Account Name: **Accounts Payable**  
 Address: **402 - 1500 Burrard Street**  
**1001 VANCOUVER BC V6Z 1B7**  
**604 158 0282**  
 Email: **accounts@kineticchs.com**

Project Information:  
 Contract No: **B71152**  
 Project ID: **5738-16**  
 Project Name:  
 Client:  
 Account No:

**CO15283\_COC**  
 Chain of Custody Record  
 Project Manager:  
 Company Subunit:

Regulatory Items:  
 ICP  
 LIME  
 NO Water Check  
 Other:

Specimen Location:  
 Assay and Preservation of Samples:  
 Turnaround Time (TAT) Request:  
 Request Blank/MSD:   
 Request for Section 2 Analysis:   
 Requested TAT:  2 Days  3 Days  5 Days  7 Days  10 Days  15 Days  20 Days  30 Days  45 Days  60 Days  90 Days  120 Days  180 Days  240 Days  360 Days  Other:

Job Specific Blank TAT (if applies to water unavailability):  
 1 Day  2 Days  3 Days  5 Days  7 Days  10 Days  15 Days  20 Days  30 Days  45 Days  60 Days  90 Days  120 Days  180 Days  240 Days  360 Days  Other:

SAMPLES MUST BE KEPT AT 2-8°C FROM TIME OF SAMPLING UNTIL DELIVERY TO BY LABS

Sample ID	Sample Location	Date Collected	Time Collected	Matrix	Method	Notes
1	5738-164A	01/03/20	11:00	Water	✓	
2	5738-164B				✓	
3	5738-165A				✓	
4	5738-165B				✓	
5	5738-166A				✓	
6	5738-166B				✓	
7	5738-167A				✓	
8	5738-168A				✓	
9	5738-168B				✓	
10	5738-168C				✓	

RECEIVED BY: **MARTIN MUMFORD**  
 Date: **30/03/20**  
 Time: **11:15**  
 Lab Unit Only: **NA**  
 Comments: **1/12/20**  
 Status: **NO**

PLEASE CONTACT US AT 604.273.7279 FOR MORE INFORMATION. OUR SERVICES ARE SUBJECT TO OUR TERMS AND CONDITIONS. INQUIRIES OF THIS FORM OR ANY OTHER FORMS ARE NON-BINDING AND ACCEPTANCE OF OUR TERMS IS REQUIRED.

IT IS THE RESPONSIBILITY OF THE SUBMITTER TO ENSURE THE ACCURACY OF THE SAMPLES RECEIVED. INCOMPLETE OR MISSING INFORMATION MAY RESULT IN DELAYED RESULTS.

Pureon Services Canada (2019) Inc.



Public Service Corporation  
 600 Lakeside Building, 2000 Lakeside Drive, Lakewood, CO 80401-1001, Tel: 303.440.2000, Fax: 303.440.2000, www.psc.com

0015283\_COC

<b>INVOICE TO</b> Company Name: <b>811488 KINETIC OHS SERVICES LTD</b> Contact Name: <b>Accounts Payable</b> Address: <b>1232 - 1520 Bannock Street</b> <b>NORTH VANCOUVER BC V7J 1T8</b> <b>V5C 2S2</b> Email: <b>accounts@kineticohs.com</b> <b>travens@kineticohs.com</b>		<b>Client Information</b> Company Name: <b>Allegit Biotech</b> Contact Name: <b></b> Address: <b></b> Phone: <b></b> Fax: <b></b> Email: <b>allegit@kineticohs.com</b>		<b>Project Information</b> Contract # <b>871255</b> P.O. # <b></b> Project # <b>0720-AB</b> Project Name <b></b> Started By <b></b>	
--	--	---	--	--	--

CCR  
 Other  
 No Water Quality  
 Other

Regular (Standard) TAT  
 Call the supplier to obtain TAT as per specified  
 Standard TAT is 17 working days by receipt  
 Please note: Standard TAT for urgent samples at CCO and Government sites is 7 days - contact your Project Manager for details  
 Day Specific Rush TAT (if applies to water submittals)  
 1 DAY  2 Day  3 Day  Plus Rushes?   
 Rush Confirmation Number:

Sample ID	Sample Company Ref #	Date Sampled	Time Collected	Notes	Method (if not 17 DAY)	Lead to Kinship Water
1	5738-174A	10/20	12:00	12:00		✓
2	5738-174B					✓
3	5738-175A					✓
4	5738-175B					✓
5	5738-176A					✓
6	5738-176B					✓
7	5738-177A					✓
8	5738-177B					✓
9	5738-178A					✓
10	5738-178B					✓

PREPARED BY: **Allegit Biotech** Date: **10/20/12** Time: **11:12** RECEIVED BY: **Allegit Biotech** Date: **10/20/12** Time: **11:13**

ALL INFORMATION IS PROVIDED AS IS WITHOUT WARRANTY OF ANY KIND. THE USER AGREES TO HOLD THE COMPANY HARMLESS FROM AND AGAINST ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING REASONABLE ATTORNEY'S FEES, ARISING FROM OR OUT OF THE USE OF THIS DOCUMENT. IT IS THE RESPONSIBILITY OF THE USER TO OBTAIN NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE AGENCIES.

0015283\_COC

Form 17

KINETIC OHP SERVICES LTD.

1500 West Broadway, Vancouver, BC V6H 4G1, Canada | Tel: 604-271-1111 | Fax: 604-271-1112 | Email: info@kineticohp.com

---

**Invoice to:** KINETIC OHP SERVICES LTD.  
**Company Name:** Accident Payable  
**Address:** 1500 West Broadway, North Vancouver BC V7L 1A1  
**Phone:** 604-271-1111  
**Email:** accounts@kineticohp.com | Fax: 604-271-1112

**Report Information:**  
**Customer Name:** Angel Barm  
**Location #:** 871255  
**Product #:** 9725-AB  
**Product Name:** Kinetic OHP  
**Order #:** [Blank]  
**Order Date:** [Blank]

**Invoice #:** C015283\_COC  
**Invoice Date:** 2018/01/20  
**Invoice Time:** 12:30

**Analysis Information:**  
**Analysis Type (IAT):** [Blank]  
**Analysis Method (TAT):** [Blank]  
**Analysis Result:** [Blank]

**Sample Information:**  
**Sample ID:** S738-179A  
**Sample Date:** 01/01/20  
**Sample Time:** 12:30  
**Sample Location:** [Blank]  
**Sample Description:** [Blank]

Sample ID	Sample Date	Sample Time	Sample Location	Sample Description	Analysis Type	Analysis Method	Analysis Result
S738-179A	01/01/20	12:30	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]
S738-179B	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]
S738-180A	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]
S738-180B	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]
S738-181A	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]
S738-181B	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]
S738-182A	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]
S738-182B	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]
S738-183A	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]
S738-183B	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]

**Payment Information:**  
**Payment Method:** [Blank]  
**Payment Due Date:** [Blank]  
**Payment Amount:** [Blank]

**Terms and Conditions:**  
 KINETIC OHP SERVICES LTD. is not responsible for any damage or loss of samples. Samples must be kept cool and delivered to the lab within 24 hours of collection. Kinetic OHP is not responsible for any damage or loss of samples.







Your Project #: 5738-AB

**Attention: Aneet Bains**

KINETIC OHS SERVICES LTD.  
#202 – 1520 Barrow Street  
NORTH VANCOUVER, BC  
CANADA V7J 1B7

Your C.O.C. #: 606809-04-01, 606809-05-01, 606809-07-01, 606809-08-01, 606809-09-01, 606809-10-01, 606809-11-01, 606809-12-01, 606809-13-01, 606809-18-01

Report Date: 2020/03/13  
Report #: R2857615  
Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

**BV LABS JOB #: C017488**

**Received: 2020/03/09, 12:05**

Sample Matrix: Water  
# Samples Received: 46

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Lead in DW Average	27	2020/03/09	2020/03/12		
Lead in DW Average	19	2020/03/09	2020/03/13		
Lead in Drinking Water	46	2020/03/11	2020/03/12	AB SOP-00014 / AB SOP-00043	EPA 6020b R2 m
Lead in Drinking Water	46	2020/03/11	2020/03/12	AB SOP-00014 / AB SOP-00043	EPA 6020b R2 m

**Remarks:**

Bureau Veritas Laboratories are accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by BV Labs are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in BV Labs profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and BV Labs in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

BV Labs liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. BV Labs has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by BV Labs, unless otherwise agreed in writing. BV Labs is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by BV Labs, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.



Your Project #: 5738-AB

**Attention: Aneet Bains**  
KINETIC OHS SERVICES LTD.  
#202 – 1520 Barrow Street  
NORTH VANCOUVER, BC  
CANADA V7J 1B7

Your C.O.C. #: 606809-04-01, 606809-05-01, 606809-07-01, 606809-08-01, 606809-09-01, 606809-10-01, 606809-11-01, 606809-12-01, 606809-13-01, 606809-18-01

**Report Date: 2020/03/13**  
**Report #: R2857615**  
**Version: 1 - Final**

### CERTIFICATE OF ANALYSIS

**BV LABS JOB #: C017488**

**Received: 2020/03/09, 12:05**

Encryption Key



**AUTHORIZED REPORT  
RAPPORT AUTORISÉ**

Bureau Veritas Laboratories  
15 Mar 2020 11:33:56

Please direct all questions regarding this Certificate of Analysis to your Project Manager.  
Customer Solutions, Western Canada Customer Experience Team  
Email: customersolutionswest@bvlab.com  
Phone# (604) 734 7276

=====  
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BV Labs Job #: C017488  
Report Date: 2020/03/13

KINETIC OHS SERVICES LTD.  
Client Project #: 5738-AB

**ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)**

BV Labs ID		XN1294	XN1295	XN1296	XN1297	XN1298	XN1299		
Sampling Date		2020/03/08 07:00	2020/03/08 07:00	2020/03/08 07:00	2020/03/08 07:00	2020/03/08 07:00	2020/03/08 08:00		
COC Number		606809-04-01	606809-04-01	606809-04-01	606809-04-01	606809-04-01	606809-05-01		
	UNITS	5738-190	5738-191	5738-192	5738-193	5738-194	5738-195	RDL	QC Batch

Elements									
Total Lead (Pb)	mg/L	0.0013	0.00060	0.00095	0.00031	0.00043	0.015	0.00020	9794204
Second bottle Total Lead (Pb)	mg/L	0.0017	0.00093	0.00077	0.00055	0.00028	0.0020	0.00020	9794448
Average Total Lead (Pb)	mg/L	0.0015	0.00076	0.00086	0.00043	0.00036	0.0087	0.00020	9791717

RDL = Reportable Detection Limit

BV Labs ID		XN1300	XN1301	XN1302	XN1303	XN1305	XN1306		
Sampling Date		2020/03/08 08:00	2020/03/08 08:00	2020/03/08 08:00	2020/03/08 08:00	2020/03/08 08:15	2020/03/08 08:15		
COC Number		606809-05-01	606809-05-01	606809-05-01	606809-05-01	606809-07-01	606809-07-01		
	UNITS	5738-196	5738-197	5738-198	5738-199	5738-200	5738-201	RDL	QC Batch

Elements									
Total Lead (Pb)	mg/L	0.00089	0.0054	0.00038	0.0011	<0.00020	<0.00020	0.00020	9794204
Second bottle Total Lead (Pb)	mg/L	0.0067	0.012	0.00032	0.0016	0.00055	<0.00020	0.00020	9794448
Average Total Lead (Pb)	mg/L	0.0038	0.0085	0.00035	0.0013	0.00027	<0.00020	0.00020	9791717

RDL = Reportable Detection Limit

BV Labs ID		XN1307	XN1308	XN1309	XN1310	XN1311	XN1312		
Sampling Date		2020/03/08 08:15	2020/03/08 08:15	2020/03/08 08:15	2020/03/08 08:30	2020/03/08 08:30	2020/03/08 08:30		
COC Number		606809-07-01	606809-07-01	606809-07-01	606809-08-01	606809-08-01	606809-08-01		
	UNITS	5738-202	5738-203	5738-204	5738-205	5738-206	5738-207	RDL	QC Batch

Elements									
Total Lead (Pb)	mg/L	0.00025	0.00062	0.00087	0.089	0.0041	0.0035	0.00020	9794204
Second bottle Total Lead (Pb)	mg/L	0.00031	0.00062	0.00071	0.11	0.0051	0.0011	0.00020	9794448
Average Total Lead (Pb)	mg/L	0.00028	0.00062	0.00079	0.10	0.0046	0.0023	0.00020	9791717

RDL = Reportable Detection Limit

BV Labs ID		XN1313		XN1314	XN1315	XN1316	XN1317		
Sampling Date		2020/03/08 08:30		2020/03/08 08:30	2020/03/08 08:45	2020/03/08 08:45	2020/03/08 08:45		
COC Number		606809-08-01		606809-08-01	606809-09-01	606809-09-01	606809-09-01		
	UNITS	5738-208	QC Batch	5738-209	5738-210	5738-211	5738-212	RDL	QC Batch

Elements									
Total Lead (Pb)	mg/L	0.015	9794204	0.00063	0.00076	0.00064	0.00065	0.00020	9794215
Second bottle Total Lead (Pb)	mg/L	0.0023	9794448	0.00068	0.00055	0.0032	0.00076	0.00020	9794452
Average Total Lead (Pb)	mg/L	0.0086	9791717	0.00065	0.00065	0.0019	0.00071	0.00020	9791717

RDL = Reportable Detection Limit



BV Labs Job #: C017488  
Report Date: 2020/03/13

KINETIC OHS SERVICES LTD.  
Client Project #: 5738-AB

**ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)**

BV Labs ID		XN1318	XN1319	XN1320	XN1321	XN1322	XN1323		
Sampling Date		2020/03/08 08:45	2020/03/08 08:45	2020/03/08 09:00	2020/03/08 09:00	2020/03/08 09:00	2020/03/08 09:00		
COC Number		606809-09-01	606809-09-01	606809-10-01	606809-10-01	606809-10-01	606809-10-01		
	UNITS	5738-213	5738-214	5738-215	5738-216	5738-217	5738-218	RDL	QC Batch

Elements									
Total Lead (Pb)	mg/L	0.0016	<0.00020	0.00048	0.00067	0.0039	0.013	0.00020	9794215
Second bottle Total Lead (Pb)	mg/L	0.0028	<0.00020	0.00038	0.00026	0.0011	0.0021	0.00020	9794452
Average Total Lead (Pb)	mg/L	0.0022	<0.00020	0.00043	0.00047	0.0025	0.0076	0.00020	9791717
RDL = Reportable Detection Limit									

BV Labs ID		XN1324	XN1325	XN1326	XN1327	XN1328	XN1329		
Sampling Date		2020/03/08 09:00	2020/03/08 09:15	2020/03/08 09:15	2020/03/08 09:15	2020/03/08 09:15	2020/03/08 09:15		
COC Number		606809-10-01	606809-11-01	606809-11-01	606809-11-01	606809-11-01	606809-11-01		
	UNITS	5738-219	5738-220	5738-221	5738-222	5738-223	5738-224	RDL	QC Batch

Elements									
Total Lead (Pb)	mg/L	0.00024	<0.00020	0.00038	0.00063	0.00079	0.00037	0.00020	9794215
Second bottle Total Lead (Pb)	mg/L	<0.00020	<0.00020	0.00071	0.00037	0.00074	<0.00020	0.00020	9794452
Average Total Lead (Pb)	mg/L	<0.00020	<0.00020	0.00054	0.00050	0.00076	<0.00020	0.00020	9791717
RDL = Reportable Detection Limit									

BV Labs ID		XN1330	XN1331	XN1332		XN1333	XN1334		
Sampling Date		2020/03/08 09:30	2020/03/08 09:30	2020/03/08 09:30		2020/03/08 09:30	2020/03/08 09:30		
COC Number		606809-12-01	606809-12-01	606809-12-01		606809-12-01	606809-12-01		
	UNITS	5738-225	5738-226	5738-227	QC Batch	5738-228	5738-229	RDL	QC Batch

Elements									
Total Lead (Pb)	mg/L	<0.00020	0.00037	<0.00020	9794215	<0.00020	0.0017	0.00020	9794222
Second bottle Total Lead (Pb)	mg/L	<0.00020	0.00044	0.00049	9794452	0.00074	0.00036	0.00020	9794454
Average Total Lead (Pb)	mg/L	<0.00020	0.00041	0.00025	9791717	0.00037	0.0010	0.00020	9791717
RDL = Reportable Detection Limit									

BV Labs ID		XN1335	XN1336	XN1337	XN1338	XN1339	XN1340		
Sampling Date		2020/03/08 09:45	2020/03/08 09:45	2020/03/08 09:45	2020/03/08 09:45	2020/03/08 09:45	2020/03/08 10:00		
COC Number		606809-13-01	606809-13-01	606809-13-01	606809-13-01	606809-13-01	606809-13-01		
	UNITS	5738-230	5738-231	5738-232	5738-233	5738-234	5738-235	RDL	QC Batch

Elements									
Total Lead (Pb)	mg/L	0.00030	0.00041	0.0011	0.0016	0.078	0.00089	0.00020	9794222
Second bottle Total Lead (Pb)	mg/L	0.00033	<0.00020	<0.00020	0.024	0.14	0.00078	0.00020	9794454
Average Total Lead (Pb)	mg/L	0.00031	0.00021	0.00056	0.013	0.11	0.00083	0.00020	9791717
RDL = Reportable Detection Limit									



BUREAU  
VERITAS

BV Labs Job #: C017488  
Report Date: 2020/03/13

KINETIC OHS SERVICES LTD.  
Client Project #: 5738-AB

### GENERAL COMMENTS

Results relate only to the items tested.



BV Labs Job #: C017488  
Report Date: 2020/03/13

QUALITY ASSURANCE REPORT

KINETIC OHS SERVICES LTD.  
Client Project #: 5738-AB

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9794204	Total Lead (Pb)	2020/03/12	100	80 - 120	99	80 - 120	<0.00020	mg/L	1.2	20
9794215	Total Lead (Pb)	2020/03/12	101	80 - 120	101	80 - 120	<0.00020	mg/L	2.2	20
9794222	Total Lead (Pb)	2020/03/12	93	80 - 120	99	80 - 120	<0.00020	mg/L	NC	20
9794448	Second bottle Total Lead (Pb)	2020/03/12	98	80 - 120	90	80 - 120	<0.00020	mg/L	0.93	20
9794452	Second bottle Total Lead (Pb)	2020/03/12	99	80 - 120	102	80 - 120	<0.00020	mg/L	3.6	20
9794454	Second bottle Total Lead (Pb)	2020/03/12	99	80 - 120	102	80 - 120	<0.00020	mg/L	1.1	20

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).



BV Labs Job #: C017488  
Report Date: 2020/03/13

KINETIC OHS SERVICES LTD.  
Client Project #: 5738-AB

### VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Rob Reinert, B.Sc., Scientific Specialist

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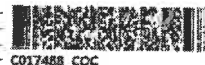
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Page 1 of 1

2016-2017 Season  
 2016-2017 Season  
 2016-2017 Season

**LAB USE**

<b>SHIP TO:</b> Company Name: #11488 KINFILCO EMS SERVICES LTD Address: 9002 - 1520 Bannock Street North Vancouver BC V7J 1B7 Phone: (604) 388-4059 Email: accounts@kinfilco.com		<b>Request Information:</b> Company Name: Arden Bank Address: [Blank] Phone: [Blank] Email: arden@kinfilco.com		<b>Project Information:</b> Surname: S. J. [Blank] Name: SYMBAR Project: [Blank]		 <b>C017488_COC</b> Project Manager: [Blank]	
<b>Requester's Name:</b> <input type="checkbox"/> LSP <input type="checkbox"/> LSPF <input checked="" type="checkbox"/> PO Water (3.0L) <input type="checkbox"/> Other:		<b>Sample Information:</b> Sample ID: [Blank] Date Collected: [Blank]		<b>Turnaround Time (TAT) Request:</b> <input type="checkbox"/> Standard TAT <input type="checkbox"/> Expedite TAT (if applicable)		<b>Regular (Standard) TAT:</b> 1 DAY <input type="checkbox"/> 2 DAY <input type="checkbox"/> 3 DAY <input type="checkbox"/>	
<b>SAMPLES MUST BE KEPT COOL (+/- 4°C) FROM TIME OF SAMPLING UNTIL DELIVERED TO LAB</b>							
Sample ID	Batch / Container / Description	Date Collected	Time Collected	Name	Lead to Discharge Water	Lead to Discharge Water	Lead to Discharge Water
1	5738-190A	04/03/2017	7:00	[Blank]	✓		
2	5738-191A				✓		
3	5738-191B				✓		
4	5738-191B				✓		
5	5738-192A				✓		
6	5738-192B				✓		
7	5738-193A				✓		
8	5738-194A				✓		
9	5738-194B				✓		
10	5738-194B				✓		
11	5738-194B				✓		
12	5738-194B				✓		

\* RELEASE OF THIS INFORMATION IS SUBJECT TO THE PRIVACY POLICY OF THE USER OF THIS INFORMATION. IT IS THE RESPONSIBILITY OF THE USER OF THIS INFORMATION TO OBTAIN NECESSARY PERMISSIONS FROM THE INDIVIDUALS WHOSE INFORMATION IS BEING RELEASED.

NO 155

Page 2 of 2

**WISAGE LTD**

Company Name: **WISAGE KINETIC OPS SERVICES LTD**

Address: **8000 - 1527 Bannock Street, NORTH VANCOUVER BC V3J 1B7**

Phone: **(604) 989-0399**

Email: **ACCOUNTS@kineticops.com / info@kineticops.com**

**Project Information**

Contract Name: **ARREST STATION**

Project Reference: **571265**

Invoice #: **5736 AB**

Client Name: **CR17488\_COC**

**Barcode**

Barcode: **CR17488\_COC**

Order ID: **5736 AB**

**Product Details**

Product Name: **LEADLINE**

Product Code: **5736 AB**

Product Manager: **5736 AB**

Quantity	Part Number	Description	Unit	Price	Total	Notes
1	5738-145A	...	...	...	...	✓
1	5738-145B	...	...	...	...	✓
1	5738-146A	...	...	...	...	✓
1	5738-146B	...	...	...	...	✓
1	5738-147A	...	...	...	...	✓
1	5738-147B	...	...	...	...	✓
1	5738-148A	...	...	...	...	✓
1	5738-148B	...	...	...	...	✓
1	5738-149A	...	...	...	...	✓
1	5738-149B	...	...	...	...	✓

**TERMS AND CONDITIONS**

DATE: **12/15/15**

TIME: **12:00 PM**

BY: **WALKER**

DATE: **12/15/15**

TIME: **12:00 PM**

BY: **WALKER**

10

KINETIK OHS SERVICES LTD  
 811458 KINETIK OHS SERVICES LTD  
 Accounts Payable  
 8272 - 1520 Barnsway Street  
 NORTH VANCOUVER BC V7J 1B7  
 (604) 568 0298  
 accounts@kinetiko.com kinetiko@kinetiko.com

Project Information  
 B71284  
 5736-AB  
 C017488\_COC

Order #  
 10000000000000000000

Supplier Order #  
 CLIP  
 LABEL  
 NO LABELS  
 OTHER

Supplier MUST BE KEPT COOL - 1 HOUR BEFORE TIME OF SAMPLING UNTIL DELIVERY TO BE LABS

Sample Bottle Label	Supplier Container Identification	Class Temp	Time Temp	Notes	Lead in Drawing Water
1	5736-200A	20/07/2022	9:15	Water	✓
2	5736-200B				✓
3	5736-201A				✓
4	5736-201B				✓
5	5736-202A				✓
6	5736-202B				✓
7	5736-203A				✓
8	5736-203B				✓
9	5736-204A				✓
10	5736-204B				✓

RECEIVED BY: J. VAN HAN Date: 20/07/2022

RECEIVED BY: J. VAN HAN Date: 20/07/2022

LAB USE ONLY  
 16/15/15

SALES TAX: 13% (B.C. SALES TAX) 16/15/15

TERMS: NET 30

IF THE RESPONSIBILITY OF THE REQUIREMENT IS BEING THE RESPONSIBILITY OF THE USER OF CUSTOMER THE USER IS COMPLETELY RESPONSIBLE FOR ANY DELAYS.

Kinetic OHS Services (2019) Inc.

4/18

Bioss Vector Canada (2018) Inc.

<b>Company Name:</b> #11864 KINETIC OMS SERVICES LTD. <b>Account Name:</b> Accounts Payable <b>Address:</b> 4000 - 1820 Barrow Street NORTH VANCOUVER BC V7J 1B7 <b>Phone:</b> 604-264-7000 <b>Email:</b> accounts@kineticoms.com		<b>Request Information:</b> <b>Request Name:</b> Arnet Exam <b>Request Number:</b> 3738-AD <b>Request Date:</b>		<b>Project Information:</b> <b>Location #:</b> B71255 <b>Project #:</b> 3738-AD <b>Project Name:</b> C017488_COC	
<b>Requester Contact:</b> <input type="checkbox"/> Other <input type="checkbox"/> Other <input checked="" type="checkbox"/> At Work Quality <input type="checkbox"/> Other		<b>Requester Information:</b> <b>Name:</b> [Blank] <b>Phone:</b> [Blank] <b>Email:</b> [Blank]		<b>Project Manager:</b> [Blank]	
<b>SAMPLES MUST BE KEPT COOL + SHC FROM TIME OF SAMPLING UNTIL DELIVERY TO BIOLAB</b>					
Sample Request #	Sample Location/Description	Date Sampled	Time Sampled	Notes	Labels in Shipping Vial
1	5738-205A	5/30	10:30	Water	✓
2	5738-205B				✓
3	5738-206A				✓
4	5738-206B				✓
5	5738-207A				✓
6	5738-207B				✓
7	5738-208A				✓
8	5738-208B				✓
9	5738-209A				✓
10	5738-209B				✓

\* ALL REQUESTS BY: [Blank]      Date: [Blank]      Time: [Blank]      Requester: [Blank]      Date: [Blank]      Time: [Blank]      If Site used and not submitted: [Blank]      Lab Number: [Blank]

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