

C 455-10-13

Dr. W. L. Ball.

J. L. Monkman.

April 9th, 1956.

Herewith list of materials and equipment necessary for a laboratory at Yellowknife.

The person employed to operate this laboratory should be at least Chemist II or preferably Chemist III.

J. L. Monkman.

JLM/ds



CHEMICAL LABORATORY, YELLOWKNIFE

The above laboratory should have a minimum of 25 feet running bench space, an 8 foot fume hood, and enough space for a desk and files. The cost of this amount of bench space may run to about \$3000. A fume hood of the size suggested may be expected to cost \$1000. There should be a glass washing sink 28" x 20" x 10". In stainless steel this may cost \$500.

Electrical, hot and cold water, gas and compressed air services should be available. A list of specific items of materials and equipment is appended.

This is a preliminary list, and may not be absolutely complete in all details.

Available from Fisher Scientific Co.

1	Stop Watch 14-647	24.00
2	Flask Safety Tongs 10-063	9.98
2	Crucible Tongs 15-190	7.80
6	Scoopolas 14-357	1.33
1	Book Lens Paper 11-995	0.60
1	Pair Watch Glasses 3" counter poised 2-195	1.25
1	Pair Shears Trimming 8" 14-275	4.01
1	Balance Pan Brush $\frac{1}{2}$ " 3-665	0.80
1	Beaker Brush 3-540	2.00
1	Beaker Brush 3-541	1.33
2	Burette Brushes 3-614	0.48
1	Balance Harvard Double Beam 2-037	26.44
1	Laboratory Pulverizer 8-301	282.00
2	Lbs. Alumina Adsorption A-540	5.50
100	Grams Sodium Diethyldithiocarbamate S-287	3.25
1	Quart Pyridine ACS P-368	7.36
1	Lb. Chromium Trioxide A-98	1.55
6	Measuring Rules celluloid 9-016	1.80
2	Bottles Nonaq Stopcock Grease 14-633	2.60
1	Lb. Glass Wool Pyrex 11-388	4.07



10	Feet Tube Cleaner Size A 3-642	0.27
10	Feet Tube Cleaner Size B 3-642	0.53
10	Feet Tube Cleaner Size C 3-642	0.67
1	Barnstead Still Capacity $\frac{1}{2}$ gallon per hour 1300 watts 9-018	123.50
1	Refrigerator unit for 115 volts 60 cycles AC 17-180	296.93
1	Analytical Balance Christian Becker Chainomatic AB4 1-948	441.25
1	Set Balance Weights Permas, Class S, 2-216	53.20
5	Gallons Absolute Alcohol A-406	6.50
5	Gallons Acetone A-18	14.10
1	Gross Bottles, sample, screw cap, square 4 oz. 3-325	168.40
1	Drying Oven Isotemp 13-245 115 volt AC	199.50
1	Safety Visor 11-409	3.25
2	Graduated Cylinders Exax 100 ml. 8-554	4.02
2	Graduated Cylinders Exax 50 ml. 8-554	3.46
2	Graduated Cylinders Exax 25 ml. 8-554	3.02
2	Graduated Cylinders Exax 10 ml. 8-554	2.80
2	Pipettes Exax 1 ml. 13-649	1.50
2	Pipettes Exax 2 ml. 13-649	1.50
2	Pipettes Exax 3 ml. 13-649	1.72
2	Pipettes Exax 4 ml. 13-649	1.82
2	Pipettes Exax 5 ml. 13-649	1.82
2	Pipettes Exax 10 ml. 13-649	1.94
2	Pipettes Exax 15 ml. 13-649	2.42
2	Pipettes Exax 20 ml. 13-649	2.46
2	Pipettes Exax 25 ml. 13-649	2.46
2	Burettes 50 ml. ultramax 3-702	13.08
2	Boxes Arsenic Strips 1-413	15.96
3	Celluloid Shields Size No. 7 2-653M	27.93
24	Polyethylene Bottles with caps 8 oz. 2-923	13.20
36	Reagent Bottles Pyrex 125 ml. 2-905	20.43
24	Reagent Bottles Pyrex 250 ml. 2-905	16.83
12	Reagent Bottles Pyrex 500 ml. 2-905	10.80



12	Reagent Bottles Pyrex 1000 ml. 2-905	16.83
6	Reagent Bottles Pyrex 2000 ml. 2-905	14.85
1	Constant Temperature Water Bath 15-454A (115 volts, 60 cycles AC)	253.50
1	Hotplate Electric Lindberg Large 20" x 12" 11-499	123.50
1	Hotplate Electric 3 heat size No. 22 18" x 13" 11-497	83.20
2	Heaters Ful Kontrol 750 watts, 115 volts, 60 cycles AC (11-427)	145.60
2	Thermometers Centigrade -20° to +110° 14-985	3.36
2	Thermometers Centigrade -20° to +180° 14-985	3.60

Available from J. T. Baker Chemical Co.

1	Lb. Stannous Chloride Reagent 1-3980	3.67
1/4	Lb. Silver Nitrate Reagent 4-3426	4.14
1/4	Lb. Mercuric Bromide Reagent 4-9043	3.71
2	Lbs. Potassium Iodide Reagent 1-3164	8.56
5	Lbs. Zinc Granular 10 mesh 5-4240	7.65
5	Lbs. Zinc Granular 20 mesh 5-4244	10.10
5	1 Lb. Bottles Sodium Hydroxide 1-3722	5.20
1	Lb. Ammonium Oxalate Reagent 1-0746	1.91
2	6 Lb. Bottles Hydrochloric Acid 5-9534	5.52
2	9 Lb. Bottles Sulfuric Acid 5-9680	8.46
2	7 Lb. Bottles Nitric Acid 2-9600	6.44
1	7 Lb. Bottle Nitric Acid Fuming 2-9624	7.07
5	1 Lb. Bottles Perchloric Acid 1-9650	9.75
1/4	Lb. Arsenic Trioxide Reagent 4-0061	2.07

Available from Scientific Glass Apparatus Co.

4	Dozen Gutzut <sup>et</sup> Apparatus J-422	196.56
48	Erlenmeyer Flasks Pyrex 125 ml. with lip and 19/38 standard taper neck J 1714	66.96
1	Lb. Glass Beads, perforated, pyrex, 3 mm. dia. J 1229	5.00



Available from J. T. Baker

1	Lb. Lead Acetate 1-2270	1.00
<u>Available from Fisher Scientific</u>		
5	Lb. Drierite, 8 mesh 7-577	4.50
36	Beakers, 30 ml. 2-540	12.24
12	Beakers, 100 ml. 2-540	4.08
12	Beakers, 250 ml. 2-540	4.08
36	Beakers, 600 ml. 2-540	18.36
2	Beakers, 1000 ml. 2-540	1.98
1	Tray, Pyrex 18" x 12" x 2½" 15-241	8.89
6	Bottles, Dropping with Pipettes F 125 ml. Corning 1340	10.86
12	Rubber Bulbs-dropping bottles 2 ml. 14-065	.75
2	Rubber Bulbs 60 ml. 14-070	1.00
36	Flasks, Volumetric, 100 ml. F stoppered 10-210R	101.16
2	Flasks, Volumetric 500 ml. F stoppered 10-210R	8.74
2	Flasks, Volumetric 1000 ml. F stoppered 10-210R	10.60
2	Tubes, Chromatographic, coarse porosity fritted disc 40 x 600 mm. Corning 38450	11.82
12	Funnels, Bunsen filtering 65 x 150 mm. 10-326	6.72
1	Support Stand, Porcelain 14-667	7.80
1	Clamp-Double Burette Holder 5-779	3.25
6	Rings, Support id. 2 3/8" 14-050	4.38
1	Colorimeter, (Fisher Electrophotometer) 7-101	312.50
1	Microabsorption assembly, round cells 7-102-60	18.75
1	Dessicator, Vacuum id. 200 mm. 8-631	30.49
1	Dessicator Plate 190 mm. 8-640	6.83
24	Rubber Policemen 3/16" 14-105	1.26
24	Glass Rods 3/16" 14-120	1.26
1	Forceps, Specimen Jar 250 mm. 10-316	2.60
12	Rubber Tubing, Pressure and Vacuum wall thickness 3/16" id 3/16" 14-173	4.80
2	Flask, filtering 1000 ml. 10-175	5.12
2	Pkg. Filter Paper, Whatman No. 1 11 cm. diam. 9-805	0.72
1	Alrejector 9-956	2.28

TOTAL ESTIMATE

\$ 3,451.45