



Typical Laboratory Analysis – IceRok Glacier Water

<i>Parameter</i>	<i>Sample Result</i>	<i>Minimum Reporting Limits</i>	<i>Units</i>	<i>Method</i>
Group A – Inorganic				
Alkalinity – Bicarbonate	224	1	mg/L	SM 2320B
Alkalinity – Carbon Dioxide	164	1	mg/L	SM 2320B
Alkalinity – Carbonate	ND	1	mg/L	SM 2320B
Alkalinity – Hydroxide	ND	1	mg/L	SM 2320B
Ammonia as N	ND	0.2	mg/L	SM 4500 NH3
Apparent Color	0	0	CU	EPA 110.2
Chloride, IC	1	2	mg/L	EPA 300.0
Conductivity	356	1	umhos/cm	EPA 120.1
Cyanide, Free	ND	0.01	mg/L	ASTM D2036
Fluoride, IC	1.1	0.1	mg/L	EPA 300.0
Hardness, as CaCO3	189	1	mg/L	SM 2340B
Langelier Index (@ 20 C)	-0.24	0.01	None	Calc
Nitrate as N, IC	ND	0.1	mg/L	EPA 300.0
Nitrite as N, IC	ND	0.1	mg/L	EPA 300.0
Odor	0	0	0-5 Scale	SM 2150B
pH	7.79	0.5	units	EPA 150.1
Phosphate, Ortho as PO4	ND	0.01	mg/L	SM 4500 PE
Solids, Total Dissolved (TDS)	199	5	mg/L	SM 2540C
Sulfate, IC	18	1	mg/L	EPA 300.0
Surfactants (MBAS)	0.06	0.08	mg/L	SM 5540C
Turbidity	0.07	0.03	NTU	EPA 180.1
Group B – Metals				
Aluminum, Total, ICP	ND	0.1	mg/L	EPA 200.7
Antimony, Total, ICP/MS	ND	0.0005	mg/L	EPA 200.8
Arsenic, Total, ICP/MS	ND	0.0005	mg/L	EPA 200.8
Barium, Total, ICP	0.015	0.005	mg/L	EPA 200.7
Beryllium, Total, ICP	ND	0.001	mg/L	EPA 200.7
Boron, Total, ICP	ND	0.05	mg/L	EPA 200.7
Cadmium, Total, ICP/MS	ND	0.0005	mg/L	EPA 200.8
Calcium, Total, ICP	42.5	0.2	mg/L	EPA 200.7
Chromium, Total, ICP	ND	0.005	mg/L	EPA 200.7
Copper, Total, ICP	0.010	0.005	mg/L	EPA 200.7
Iron, Total, ICP	ND	0.02	mg/L	EPA 200.7
Lead, Total, ICP/MS	ND	0.0005	mg/L	EPA 200.8
Magnesium, Total, ICP	20.2	0.2	mg/L	EPA 200.7
Manganese, Total, ICP	ND	0.005	mg/L	EPA 200.7
Mercury, Total, ICP/MS	ND	0.0002	mg/L	EPA 200.8
Potassium, Total, ICP	1.8	0.2	mg/L	EPA 200.7
Selenium, Total, ICP/MS	0.0011	0.0005	mg/L	EPA 200.8
Silica (as SiO2) Total, ICP	10.1	0.1	mg/L	EPA 200.7
Silver, Total, ICP/MS	ND	0.0005	mg/L	EPA 200.8

<i>Parameter</i>	<i>Sample Result</i>	<i>Minimum Reporting Limits</i>	<i>Units</i>	<i>Method</i>
Sodium, Total, ICP	2.8	0.5	mg/L	EPA 200.7
Thallium, Total, ICP/MS	ND	0.0005	mg/L	EPA 200.8
Zinc, Total, ICP	1.58	0.01	mg/L	EPA 200.7
Group E – Radiochemicals				
Gross Alpha	ND		pCi/L	EPA 900.0
Gross Alpha LLD	ND		pCi/L	EPA 900.0
Gross Alpha Variance	1.0		pCi/L	EPA 900.0
Gross Beta	ND		pCi/L	EPA 900.0
Gross Beta LLD	ND		pCi/L	EPA 900.0
Gross Beta Variance	1.6		pCi/L	EPA 900.0
Radium 228	ND		pCi/L	EPA 904.0
Radium 224 LLD	ND		pCi/L	EPA 904.0
Radium 224 Variance	0.4		pCi/L	EPA 904.0
Group F – Carbamates				
3-Hydroxycarbofuran	ND	2	ug/L	EPA 531.1
Aldicarb	ND	1	ug/L	EPA 531.1
Aldicarb sulfone	ND	2	ug/L	EPA 531.1
Aldicarb sulfoxide	ND	2	ug/L	EPA 531.1
Carbaryl	ND	2	ug/L	EPA 531.1
Carbofuran	ND	2	ug/L	EPA 531.1
Methomyl	ND	1	ug/L	EPA 531.1
Oxamyl (Vydate)	ND	2	ug/L	EPA 531.1
Group J – Herbicides				
2,4,5-TP (Silvex)	ND	0.44	ug/L	EPA 515.2
2,4-D	ND	0.22	ug/L	EPA 515.2
Dalapon	ND	2.2	ug/L	EPA 515.2
Dicamba	ND	1	ug/L	EPA 515.2
Dinoseb	ND	0.44	ug/L	EPA 515.2
Pentachlorophenol	ND	0.088	ug/L	EPA 515.2
Group K – PCB's				
PCB-1221	ND	0.2	ug/L	EPA 508.1
PCB-1232	ND	0.2	ug/L	EPA 508.1
PCB-1242	ND	0.5	ug/L	EPA 508.1
PCB-1248	ND	0.5	ug/L	EPA 508.1
PCB-1254	ND	0.5	ug/L	EPA 508.1
PCB-1260	ND	0.5	ug/L	EPA 508.1
Group L – Pesticides				
Endrin	ND	0.022	ug/L	EPA 508.1
Heptachlor	ND	0.088	ug/L	EPA 508.1
Heptachlor Epoxide	ND	0.044	ug/L	EPA 508.1
Lindane	ND	0.044	ug/L	EPA 508.1
Methoxychlor	ND	0.22	ug/L	EPA 508.1
Toxaphene	ND	2.2	ug/L	EPA 508.1

<i>Parameter</i>	<i>Sample Result</i>	<i>Minimum Reporting Limits</i>	<i>Units</i>	<i>Method</i>
Group N – Semi-Volatile Compounds				
a-Chlordane	ND	0.44	ug/L	EPA 525.2
Alachlor	ND	0.44	ug/L	EPA 525.2
Aldrin	ND	2	ug/L	EPA 525.2
Atrazine	ND	0.22	ug/L	EPA 525.2
Benzo (a) pyrene	ND	0.044	ug/L	EPA 525.2
bis (2-Ethylhexyl) adipate	ND	1.3	ug/L	EPA 525.2
bis (2-Ethylhexyl) phthalate	ND	1.3	ug/L	EPA 525.2
Butachlor	ND	0.5	ug/L	EPA 525.2
Dieldrin	ND	1	ug/L	EPA 525.2
g-Chlordane	ND	0.44	ug/L	EPA 525.2
Hexachlorobenzene	ND	0.22	ug/L	EPA 525.2
Hexachlorocyclopentadiene	ND	0.22	ug/L	EPA 525.2
Metolachlor	ND	0.5	ug/L	EPA 525.2
Metribuzin	ND	0.5	ug/L	EPA 525.2
Propachlor	ND	0.5	ug/L	EPA 525.2
Simazine	ND	0.15	ug/L	EPA 525.2
Group P – Volatile Organic Compounds				
1,1,1,2-Tetrachloroethane	ND	1	ug/L	EPA 524.2
1,1,1-Trichloroethane	ND	0.5	ug/L	EPA 524.2
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	EPA 524.2
1,1,2-Trichloroethane	ND	0.5	ug/L	EPA 524.2
1,1,2-Trichlorotrifluoroethane	ND	0.5	ug/L	EPA 524.2
1,1-Dichloroethane	ND	1	ug/L	EPA 524.2
1,1-Dichloroethylene	ND	0.5	ug/L	EPA 524.2
1,1-Dichloropropene	ND	1	ug/L	EPA 524.2
1,2,3-Trichlorobenzene	ND	1	ug/L	EPA 524.2
1,2,3-Trichloropropane	ND	1	ug/L	EPA 524.2
1,2,4-Trichlorobenzene	ND	0.5	ug/L	EPA 524.2
1,2,4-Trimethylbenzene	ND	1	ug/L	EPA 524.2
1,2-Dichlorobenzene	ND	0.5	ug/L	EPA 524.2
1,2-Dichloroethane	ND	0.5	ug/L	EPA 524.2
1,2-Dichloropropane	ND	0.5	ug/L	EPA 524.2
1,3,5-Trimethylbenzene	ND	1	ug/L	EPA 524.2
1,3-Dichlorobenzene	ND	1	ug/L	EPA 524.2
1,3-Dichloropropane	ND	0.5	ug/L	EPA 524.2
1,4-Dichlorobenzene	ND	0.5	ug/L	EPA 524.2
2,2-Dichloropropane	ND	1	ug/L	EPA 524.2
2-Chlorotoluene	ND	1	ug/L	EPA 524.2
4-Chlorotoluene	ND	1	ug/L	EPA 524.2
4-Isopropyltoluene	ND	1	ug/L	EPA 524.2
Benzene	ND	0.5	ug/L	EPA 524.2
Bromobenzene	ND	1	ug/L	EPA 524.2
Bromochloromethane	ND	1	ug/L	EPA 524.2
Bromodichloromethane	ND	0.5	ug/L	EPA 524.2
Bromoform	ND	0.5	ug/L	EPA 524.2
Bromomethane	ND	1	ug/L	EPA 524.2
Carbon Tetrachloride	ND	0.5	ug/L	EPA 524.2

<i>Parameter</i>	<i>Sample Result</i>	<i>Minimum Reporting Limits</i>	<i>Units</i>	<i>Method</i>
Chlorobenzene	ND	0.5	ug/L	EPA 524.2
Chloroethane	ND	1	ug/L	EPA 524.2
Chloroform	ND	0.5	ug/L	EPA 524.2
Chloromethane	ND	1	ug/L	EPA 524.2
cis 1,3-Dichloropropylene	ND	1	ug/L	EPA 524.2
cis-1,2,-Cichloroethylene	ND	0.5	ug/L	EPA 524.2
Dibromochloromethane	ND	0.5	ug/L	EPA 524.2
Dibromomethane	ND	1	ug/L	EPA 524.2
Dichlorodifluoromethane	ND	1	ug/L	EPA 524.2
Ethylbenzene	ND	0.5	ug/L	EPA 524.2
Hexachlorobutadiene	ND	1	ug/L	EPA 524.2
Isopropylbenzene	ND	1	ug/L	EPA 524.2
Methylene Chloride	ND	0.5	ug/L	EPA 524.2
MTBE	ND	0.5	ug/L	EPA 524.2
Napthalene	ND	1	ug/L	EPA 524.2
n-Butylbenzene	ND	1	ug/L	EPA 524.2
n-Propylbenzene	ND	1	ug/L	EPA 524.2
sec-Butylbenzene	ND	1	ug/L	EPA 524.2
Styrene	ND	0.5	ug/L	EPA 524.2
tert-Butylbenzene	ND	1	ug/L	EPA 524.2
Tetrachloroethylene	ND	0.5	ug/L	EPA 524.2
Toluene	ND	0.5	ug/L	EPA 524.2
trans- 1,2-Dichloroethylene	ND	0.5	ug/L	EPA 524.2
trans- 1,3-Dichloropropylene	ND	1	ug/L	EPA 524.2
Trichloroethylene	ND	0.5	ug/L	EPA 524.2
Trichlorofluoromethane	ND	0.5	ug/L	EPA 524.2
Vinyl Chloride	ND	0.5	ug/L	EPA 524.2
Xylene – Total	ND	0.5	ug/L	EPA 524.2
Group D – Miscellaneous Tests				
Asbestos	ND	0.18	MFL	EPA 100.1

Abbreviations

ND = Not detected at the corresponding Minimum Reporting Limit

1 mg/L = one milligram per liter = 1 part per million

1 ug/L = one milligram per liter = 1 part per billion

MFL = Millions of Fibers per liter