

Building 1 Metals Processing Area
XRF Screening Results - May 23, 2023
Nedlog Property Assessment

Analyte and CAS No.	Reading No.	Blank	NIST 2709	NIST 2711a	Tank 19	Far NE Corner of Building Floor	Far E Side of Building Floor	Far SE Corner of Building Floor	Tank 17 Paint	CCA Manifolds E Side	Tank 18 Floor	Center N Side of Building Floor	Center Building Floor by B1A	Center S Side of Building Floor	Filter Bottom	Filter Side	Suspected CCA Tank	Suspected CCA Tank Floor	Suspected CCA Tank Residue	NW Side of Processing Area Building Floor	W Side of Processing Area Between Tanks Building Floor	SW Side of Processing Area Building Floor	Tank 5 SW Side of Processing Area	Tank 5 Green Residue
		Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time
		Units	Units	Units	Units	Units	Units	Units	Units	Units	Units	Units	Units	Units	Units	Units	Units	Units	Units	Units	Units	Units	Units	Units
Aluminum	7429-90-5	<LOD	32222	35620	1843	3199	3800	3907	2194	3611	3545	3647	4647	2582	5275	3922	<LOD	4064	<LOD	2372	2149	4328	<LOD	<LOD
Antimony	7440-36-0	<LOD	<LOD	31	37	669	351	63	1480	1790	2932	200	5036	4372	302	537	6141	12142	6301	347	522	1194	569	734
Arsenic	7440-38-2	<LOD	11	106	7176	72833	33330	4444	286997	346816	221623	5351	123035	127214	128464	226396	511592	342313	409870	11732	20910	21935	16375	14033
Barium	7440-39-3	<LOD	1121	750	<LOD	<LOD	<LOD	<LOD	<LOD	612	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD
Bismuth	7440-69-9	<LOD	<LOD	<LOD	33	86	41	39	621	663	392	<LOD	<LOD	65	897	363	952	494	792	<LOD	38	<LOD	<LOD	<LOD
Cadmium	7440-43-9	<LOD	<LOD	69	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	47	17	601	116	<LOD	<LOD	<LOD	93	188	30	<LOD	36	177	77
Calcium	7440-70-2	168	17101	21719	13006	48112	32777	39474	46372	21651	46285	55255	22710	37449	4053	13518	<LOD	11127	<LOD	67709	19760	46598	10179	5610
Chromium	7440-47-3	<LOD	108	64	247	372	315	193	298	291	379	95	29079	1238	160	214	97069	11605	93715	336	442	213	<LOD	<LOD
Cobalt	7440-48-4	<LOD	<LOD	68	302	87	<LOD	<LOD	<LOD	117	<LOD	157	<LOD	145	<LOD	<LOD	2403	<LOD	1869	<LOD	<LOD	<LOD	1752	2397
Copper	7440-50-8	<LOD	33	139	409	1009	347	616	185	241	261	364	10196	2806	145	106	2632	664	2447	554	507	1018	398	348
Iron	7439-89-6	21	34770	26506	4680	74840	60726	45116	20891	32607	9901	23859	30659	70691	581533	234214	313910	38360	401735	40501	41744	67038	28948	25885
Lead	7439-92-1	<LOD	23	1360	23	331	236	202	<LOD	<LOD	<LOD	423	2015	2344	<LOD	<LOD	371	1646	4004	512	441	1403	2461	1251
Magnesium	7439-95-4	<LOD	<LOD	<LOD	<LOD	7549	<LOD	10525	10797	12333	<LOD	<LOD	11960	<LOD	21510	24946	<LOD	16150	<LOD	<LOD	6348	<LOD	<LOD	<LOD
Manganese	7439-96-5	<LOD	507	595	37	404	337	280	276	132	112	273	570	488	1815	472	9175	311	9955	392	182	375	149	76
Mercury	7439-97-6	<LOD	10	12	40	<LOD	<LOD	12	<LOD	<LOD	<LOD	29	<LOD	<LOD	<LOD	743	1023	<LOD	<LOD	15	51	<LOD	19	25
Molybdenum	7439-98-7	<LOD	4	<LOD	4	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	7	<LOD	<LOD	25	23	23674	25	22136	6	<LOD	7	<LOD	<LOD
Nickel	7440-02-0	<LOD	103	33	40	42	52	36	36	230	46	29	52	106	<LOD	<LOD	28352	54	35433	71	45	57	32	<LOD
Niobium	7440-03-1	<LOD	4	13	<LOD	<LOD	<LOD	<LOD	11	17	<LOD	<LOD	<LOD	<LOD	12	28	134	23	115	<LOD	<LOD	<LOD	<LOD	<LOD
Phosphorous	7723-14-0	<LOD	2725	2915	111	591	291	454	324	241	616	2511	508	330	460	355	<LOD	403	<LOD	537	372	455	<LOD	<LOD
Potassium	7440-02-0	184	13741	19698	519	3329	3637	3222	293	2446	3648	6411	2867	4109	<LOD	561	<LOD	705	<LOD	4519	3079	5436	392	170
Rubidium	7440-17-7	<LOD	98	120	77	17	36	9	<LOD	13	18	40	25	29	<LOD	16	<LOD	<LOD	<LOD	60	27	39	10	3
Selenium	7782-49-2	<LOD	<LOD	<LOD	4	63	37	<LOD	213	306	218	<LOD	116	154	60	87	445	335	381	10	8	16	16	18
Silicon	7440-21-3	533120	130792	172389	10556	20340	12218	19212	10372	23675	17743	20464	17280	15449	5804	12285	<LOD	8529	<LOD	17167	10740	20219	9420	9521
Silver	7440-22-4	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	331	597	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	554	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD
Strontium	7440-24-6	<LOD	238	231	159	175	144	57	137	115	137	213	236	240	<LOD	9	<LOD	49	26	253	134	304	31	21
Sulfur	7704-34-9	<LOD	472	706	2528	6185	3633	4154	1845	5996	3033	5179	2539	15775	1501	3180	<LOD	1717	<LOD	9414	11075	12521	1854	1218
Thallium	7440-28-0	<LOD	32	13	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	10	<LOD	<LOD	19	<LOD
Tin	7440-31-5	<LOD	<LOD	<LOD	21	71	31	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	124	<LOD	312	<LOD	275	<LOD	19	63	<LOD	<LOD
Titanium	7440-32-6	<LOD	3226	2662	103222	6643	1523	1022	<LOD	430	753	968	765	1807	<LOD	<LOD	838	<LOD	7135	1162	1476	1199	193607	219447
Tungsten	7440-33-7	<LOD	9	13	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	262	<LOD	172	<LOD	<LOD	<LOD	<LOD	<LOD
Uranium	7440-61-1	<LOD	4	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	6	<LOD	<LOD	106	<LOD	<LOD	<LOD	<LOD	6	<LOD	6	6	8
Vanadium	7440-62-2	<LOD	109	65	<LOD	133	<LOD	47	<LOD	<LOD	<LOD	48	67	<LOD	<LOD	<LOD	261	<LOD	<LOD	<LOD	47	81	535	266
Yttrium	7440-65-5	<LOD	16	32	<LOD	4	5	<LOD	<LOD	<LOD	10	8	13	15	18	<LOD	<LOD	24	<LOD	4	<LOD	10	<LOD	<LOD
Zinc	7440-66-6	5	112	425	168	3816	7986	9819	325	12220	1565	1723	2920	4450	57208	4288	452	240	3307	3561	1364	6468	1002	418
Zirconium	7440-67-7	4	140	308	65	44	70	30	<LOD	<LOD	21	76	29	31	<LOD	<LOD	<LOD	<LOD	146	96	52	68	121	127
Light elements	N/A	466498	762270	713337	854692	749055	838079	857068	616000	532852	686716	872646	732072	707998	190529	473737	<LOD	548373	<LOD	838626	878468	808913	731927	718349

Notes:

In-situ data collected on 5/23/2023 with Olympus Vanta XRF Serial Number 806363 in Geochem(3-Beam) mode.

Sampler: M.McAleese

Light elements have low atomic number with weaker X-ray energies which cannot be measured by handheld XRF analyzers.

B1A Air sample location NH-IA-B1A in Building 1 Metals Processing Area

CCA Chromated copper arsenate

E East

LOD Limit of detection

N North

NE Northeast

NIST National Institute of Standards and Technology

NW Northwest

N/A Not applicable

PPM Parts per million

S South

SE Southeast

SW Southwest

W West

XRF X-ray fluorescence