

## EF41 - NON-CHROME SLUDGE TESTING RESULTS - 2021

Approved By: General Manager

Version: 1

Issue Date: 24 March 2021

Review Date: 24 March 2024



\*Not Tested (NT) No Sample (NS)

ANALYSIS	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	HIGH	LOW	AVE
pH - pH Units	7.3	6.2	7.9	7.97	6.95	6.96	12.26	12.19	9.73	8.96	7.09	9.53	12.26	6.2	8.59
Electrical Conductivity - µS/cm	7180	8980	8140	9180	7500	8920	4980	6640	5140	6390	8300	5770	9180	4980	7260.00
Total Kjeldahl Nitrogen - mg/L	487	674	653	700	640	560	590	600	560	680	520	420	700	420	590.33
Total Phosphorus - mg/L	28.3	36.7	15.6	12	34	44	45	9.9	30	30	24	30	45	9.9	28.29
Total Suspended Solids - mg/L	1430	6040	1320	2200	2100	8100	3400	1200	5200	5500	5400	13800	13800	1200	4640.83
Total Dissolved Solids (grav) - mg/L	5900	5100	6680	5800	8900	7000	7200	5600	6000	5300	7700	12000	12000	5100	6932
BOD - mg/L	3590	4080	4110	6000	9700	7600	4200	4200	5700	4900	14100	7500	14100	3590	6306.67
COD - mgO <sub>2</sub> /L	11400	8040	10800	8600	14900	16100	5200	6800	9300	6100	7400	16200	16200	5200	10070.00
Nitrate, NO <sub>3</sub> - mg/L	3.59	2.61	0.22	0.005	1	0.5	0.32	0.35	1	0.05	0.05	1	3.59	0.005	0.89
Oil & Grease (LLE) - mg/L	913	190	548	5100	8860	2370	481	344	185	337	0.98	896	8860	0.98	1685.42
Total S (Sulphur = Sulphate + Sulphite + Sulphide)	329	556	314	280	300	490	180	250	320	300	740	1270	1270	180	444.08
Chloride - mg/L	1082	914	618	1300	860	1200	1900	2000	1100	1200	1200	2200	2200	618	1297.83
Ammonia as N - mg/L	186	426	145	700	630	410	140	99	140	240	370	250	700	99	311.33
Sodium - mg/L	1051	1149	1098	1270	1020	1200	1190	1140	1090	930	1030	1710	1710	930	1156.50
Potassium - mg/L	101	52.8	91.4	110	77	100	93	99	110	73	98	130	130	52.8	94.60
Calcium - mg/L	137	217	623	160	310	220	410	160	360	380	480	1070	1070	137	377.25
Magnesium - mg/L	30.9	131	27	34	240	66	1.1	0.18	11	26	190	17	240	0.18	64.52
Manganese - mg/L	0.297	0.928	0.754	0.29	1.5	2	0.33	0.11	1.2	1	1.7	1	2	0.11	0.93
Chromium III - mg/L	0.2	0.36	0.15	1	5	230	48	1	9.9	12	3	5	230	0.15	26.30
Chromium VI - mg/L	0.1	0.01	0.1	1	0.002	1	1	0.002	1	1	1	1	1	0.002	0.60
SAR	21	15	12	23.8	10.6	18.2	16.1	576	15.4	12.4	10.1	14.2	576	10.1	62.07
Sulphate, SO <sub>4</sub> - mg/L	744	790	564	740	840	830	480	450	900	740	880	3520	3520	450	956.50
Nitrogen Total - mg/L	488	674	653	700	640	560	590	600	560	680	520	420	700	420	590.42
Total Solids - %	15	1.9	1.4	0.8	2	1.8	1	0.9	1.5	1.4	1.2	2.5	15	0.8	2.62
Arsenic - mg/Kg	5	24	21	5	5	6	9.3	5	5	5	5	6.5	24	5	8.48
Cadmium - mg/Kg	1	12	10	0.5	0.5	2	0.5	0.5	0.5	0.5	0.5	0.5	12	0.5	2.42
Copper - mg/Kg	5	24	21	1	1	3.5	4.5	1	1	1	1	2.2	24	1	5.52
Lead - mg/Kg	5	24	21	2	2	17.3	3.1	2	2	2	2	2	24	2	7.03
Mercury - mg/Kg	0.1	0.9	1	2	2	1	0.1	0.1	0.1	0.1	0.1	0.1	2	0.1	0.63
Nickel - mg/Kg	2	24	21	1	1	2	1	1	1	1	1	1	24	1	4.75
Zinc - mg/Kg	5	29	64	5	5	42.2	27	5	5	5	5	5	64	5	16.85
Iron - mg/Kg	80	140	50	3.4	9.1	7.66	42.4	4.6	12.2	21.3	20	24	140	3.4	34.56

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