



Results of X-Ray Fluorescence Analysis (XRF)

Sackedgate Ltd. Reg 09712671, 26 Reading Road, Burghfield Common, Berkshire RG7 3QA - T- 01189 832 570 M-07854 816921

Instrument Type	Olympus Vanta C	Site Ref	J124
Instrument Serial No.	800722	Location	470-478, Oxford Road
Units	ppm	Client	Mr Luthra

Exposure No.	2	3	4	5	6	7	8			
Locn Ref	JRP1 Test Blank	path	lawn	lawn	rough patch	rough patch	by shed			
Soil Insitu/Sample	In Situ	In Situ	In Situ	In Situ	In Situ	In Situ	In Situ			

Lat	0	0	0	0	51.4584999	51.4584999	51.4584007			
Long	0	0	0	0	-1.00132	-1.00111997	-1.00101996			
date	31/01/2022	31/01/2022	31/01/2022	31/01/2022	31/01/2022	31/01/2022	31/01/2022			

m/c (%)	0.00%	6.00%	6.00%	6.00%	6.00%	6.00%	6.00%			
Measured/ Assumed	A	A	A	A	A	A	A			

Aluminium	0	5269.26	8909.3	9825.14	19938.6	15382.72	18880.72			
LOD	1274	924	914	1039	1061	973	1390			
Antimony	0	24	22	21	21	20	29			
LOD	11	23	21	20	20	19	27			
Arsenic	1195	8	8	8	10	11	7			
LOD	18	8	8	8	9	10	7			
Cadmium	0	13	12	12	12	11	15			
LOD	6	12	11	11	11	10	14			
Chromium	0	24	22	20	45	22	109			
LOD	53	23	21	19	13	21	18			
Cobalt	0	40	42	37	40	58	56			
LOD	50	38	40	35	38	55	53			
Copper	53492	60	77	66	66	90	47			
LOD	309	4	4	3	4	4	4			
Iron	50743	19350	22699	17526	21325	41328	26035			
LOD	324	104	112	95	107	187	156			
Lead	389	222	248	251	297	298	119			
LOD	12	4	4	4	4	5	3			
Mercury	0	0	0	0	0	0	0			
LOD	8	5	5	5	5	5	7			
Molybdenum	0	0	0	0	0	0	0			
LOD	2	3	2	2	2	2	3			
Nickel	237	21	28	13	25	23	30			
LOD	15	4	4	3	4	4	5			
Selenium	0	1	1	1	1	1	1			
LOD	2	1	1	1	1	1	1			
Titanium	36494	1265	1512	1301	1986	1642	2549			
LOD	417	77	76	70	79	71	106			
Tin	0	19	18	17	17	49	23			
LOD	14	3	3	3	3	3	4			
Vanadium	8575	17	17	16	17	37	22			
LOD	96	16	16	15	16	9	21			
Zinc	5135	206	246	243	288	378	153			
LOD	44	4	4	4	5	6	4			

Sulphur	152922	1196	1406	239	558	580	0			
LOD	863	45	45	44	45	42	376			
Light EI	418204	853808	849445	949724	869860	884466	841396			
LOD	3118	1167	1148	1144	1244	1173	1647			

Results checked & issued for and on behalf of Sackedgate Ltd

JRPuzyna

Julian Puzyna BEng Hons MCIEH

1) X-Ray Fluorescence analysis is carried out in situ or from sample containers. Soil is not homogeneous and the concentrations of contaminants vary throughout the soil mass. Large variations are sometimes found at locations just millimetres from each other. This analysis considers a small scan area which may not represent the variability that is more widely present. Where possible a number of tests are carried out to assess the variability within each sample or at each point location tested. 2) The analyser measures concentrations as it sees them in the soil, in its wet state. The results above are corrected for moisture content and are presented on a 'dry weight' basis calculated from a measured or an assumed moisture content. 3) Most elements (eg Lead) give a fairly constant fluorescent response for different compounds of that element. A small number of elements however, give different responses depending on the actual compound that is present. The analyser always shows the worst case concentration and sometimes greatly overestimates the concentrations of those elements. 4) With the exception of Lead, exposure times need to be varied to ensure that the error values are at their lowest.