TABLE 1

Table 1
Kingmoor, Wrexham Industrial Estate

Human Health Screening Values for a Commercial/Industrial Land Use versus Measured Values - Soils

Determinant	Final screening chemical acceptance criteria mg/kg	Derivation Tool	Range of Measured Values	No. of Values > acceptance criteria (location)
Asbestos	Presence		Absence	0
Phenols	1500	LQM/CIEH:S4UL	<0.2	0
US EPA Priority PAHs				
Acenapthene	97000	LQM/CIEH:S4UL	<0.01-0.012	0
Acenapthylene	97000	LQM/CIEH:S4UL	<0.1	0
Anthracene	54000	LQM/CIEH:S4UL	<0.02-0.12	0
Benzo(a)Anthracene	170	LQM/CIEH:S4UL	<0.04–0.24	0
Benzo (a)pyrene	77	DEFRA:C4SL	<0.04-0.18	0
Benzo (b)flouranthene	44	LQM/CIEH:S4UL	<0.05-0.25	0
Benzo(k)flouranthene	1200	LQM/CIEH:S4UL	<0.07	0
Benzo(g,h,i) perylene	4000	LQM/CIEH:S4UL	<0.05-0.07	0
Chrysene	350	LQM/CIEH:S4UL	<0.06-0.30	0
Di-benzo(a,h)anthracene	3.6	LQM/CIEH:S4UL	<0.04	0
Indeno)1,2,3-cd)pyrene	510	LQM/CIEH:S4UL	<0.03-0.07	0
Flouranthene	23000	LQM/CIEH:S4UL	<0.08-0.56	0
Flourene	68000	LQM/CIEH:S4UL	<0.01	0
Napthalene	400	LQM/CIEH:S4UL	<0.03-0.06	0
Phenanthrene	22000	LQM/CIEH:S4UL	<0.03-0.52	0
Pyrene	64000	LQM/CIEH:S4UL	<0.07-0.50	0
Heavy Metals/ Metalloids				
Arsenic	640	DEFRA C4SL	<1 - 7	0
Cadmium	420	DEFRA C4SL	<0.5 – 0.6	0
Chromium	86000	LQM/CIEH:S4UL	7 - 46	0
Copper	68000	LQM/CIEH:S4UL	7 - 20	0
Lead	1100	DEFRA C4SL	16 - 922	0
Mercury	1100	LQM/CIEH:S4UL	<0.17	0
Nickel	980	LQM/CIEH:S4UL	7 - 41	0
Selenium	12000	LQM/CIEH:S4UL	<1	0
Zinc	730000	LQM/CIEH:S4UL	35 - 105	0

Petroleum Hydrocarbons				
TPH Aliphatic C5-6	5900	LQM/CIEH:S4UL	<0.01	0
C6-8	7800	LQM/CIEH:S4UL	<0.01	0
C8-10	4800	LQM/CIEH:S4UL	<1	0
C10-12	23000	LQM/CIEH:S4UL	<1	0
C12-16	82000	LQM/CIEH:S4UL	<1	0
C16-21	1700000	LQM/CIEH:S4UL	<1 – 1	0
C21-35	170000	LQM/CIEH:S4UL	<1 - 13	0
TPH Aromatic C5-7	46000	LQM/CIEH:S4UL	<0.01	0
C7-8	110000	LQM/CIEH:S4UL	<0.01	0
C8-10	8100	LQM/CIEH:S4UL	<1	0
C10-12	28000	LQM/CIEH:S4UL	<1	0
C12-16	37000	LQM/CIEH:S4UL	<1	0
C16-21	28000	LQM/CIEH:S4UL	<1 - 3	0
C21-35	28000	LQM/CIEH:S4UL	<1 - 5	0
BTEX			*	
MTBE			*	

1% SOM adopted for SGV calculation
Copyright Land Quality Management Ltd., Publication Number S4U:L 3458

*Below Detection Limit