



Pell Frischmann

CONSULTANTS

Project/Calc No.
1-B
Sheet No.
Date
By Chkd

CALCULATIONS

Project: Hirwaun Enviropark

Subject

Levels and volumes of bases for layout post Pyrolysis

Totals

Note this excludes high energy user site

Lorry Load tonnes	Material	Volume m3 / area m2	Weight per material Tonnes	No Vehicles movements
13.5	Excavated material bulked 2/3	40499.40 m ³	72899	5400
15	Imported Fill Volume	11915.18 m ³	23830	1589
15	Concrete Bases (inc blinding)	18077.78 m ³	43387	2892
15	Steel reinforcement	695.09 m ³	5456	364
10	Steel Structural frame	65.49 m ³	514	51
12	Steel fittings	18.53 m ³	145	12
20	Roof cladding	15631.00 m ²	938	47
20	Wall cladding	10551.50 m ²	633	32
No persons per vehicle	Man years to complete project		Man days to complete project	
5	325	at a rate of 50 week a year, 5 days a week =	81250	16250

Est Total no of Return vehicle movements for project =

26637

Est Total no of Single vehicle movements for project =

53274