

Application for Full Planning Consent: Application No: 12/01430/FUL

AMENDED MAY 2017

Development of:

Leachate Treatment Plant at Burghfield Landfill, Island Road, Reading RG2 0RP

Condition 3: Materials to be used in the construction of the leachate treatment plant

Element of construction	Materials of construction
Civil Engineering Works	
Excavation/Fill	
a) screening bund	Excavated materials and imported topsoil materials
b) backfill around bases to aeration tank, raw leachate balance tanks and treated leachate balance tank	Type 1 sub base material to Highways Specification
c) sub base to tank slabs and compound slab	
d) support to excavation for aeration tank	Reinforced concrete secant piles
Tank Foundations	
a) Aeration Tank and Balance Tanks; control building; chemical store; compressor house; equipment store	Piles; Driven pre-cast concrete Pile cap: reinforced concrete
Tank construction (all tanks)	In-situ reinforced concrete in tank base slabs and walls
Plinth supports to control building; chemical store; compressor house; equipment store	Reinforced concrete
Compound slab and bund walls	Reinforced concrete
Covers to raw leachate balance tanks	GRP
Access facilities	
a) platforms to all tanks b) steps to all elevated platforms c) steps for access to localised bunded areas	Galvanised mild steel
Fencing and gates	Galvanised palisade fencing Gates to match
Access road outside compound area	Bituminous materials to Highways Specification
Manhole construction	
a) within compound area	Reinforced concrete walls with reinforced concrete integral base: ductile iron, sealed and lockable heavy duty cover
b) outside compound area	Proprietary, precast concrete manhole sections, with in-situ concrete surrounds, and cover slabs;

	brick access ways; and heavy duty ductile iron manhole cover and frame; alternative proprietary HDPE manholes with mass concrete surround
Pipework and fittings inside compound	all pipes are above compound floor slab
a) rising mains outside chambers and tanks	HDPE, fusion welded and flange joints where appropriate
b) rising mains inside chambers	Ductile iron, flanged proprietary flexible joints, as appropriate
c) valves, bends, tees, etc.	Ductile iron, flanged
d) gravity drainage	(half round) HDPE
e) chemical dosing pipelines	HDPE dosing pipes, complete with insulation and trace heating, with external HDPE conduit for containment
Pipework and fittings outside compound	
a) in trenches	HDPE fusion welded joints
b) in chambers	Ductile iron, flanged proprietary flexible joints, as appropriate
c) air pipes in trenches and in chambers	HDPE
Landscaping	See Specification
Buildings	
a) control building	Prefabricated galvanised mild steel
b) compressor house	Prefabricated galvanised mild steel
c) store	Prefabricated galvanised mild steel
Process and MEICA Engineering Works	
Pumps	Proprietary manufacture, in stainless steel and ductile iron