

STEVENSON AGGREGATES LTD DRURY MANAGED FILL OPERATION

CONDITIONS OF ENTRY

Access to the Managed Fill site is at the sole discretion of Stevenson. If for any reason we deem the site access unsuitable, then it will be closed, and no compensation will be offered. The Customer/ Account Holder accepts that upon entry to this site you agree to be bound by the terms outlined below:

Fill Material will not be accepted onto this site until the Acceptance/Declaration Form has been completed and provided to Stevenson for approval. We recommend you allow 5 working days for this process. This must be updated and Stevenson advised immediately if any information changes.

Information and forms are available on: (www.stevensonresources.co.nz) or alternatively contact the sales office on (09) 984 8571.

1.0 APPROVAL:

The acceptance of any Fill Material at this site is at the absolute discretion of Stevenson Construction Materials Ltd.

The acceptance criteria for the Drury Managed Fill site is detailed in this document. These tables indicate the chemical parameters and the type of material that can be accepted at this site and should be considered a guide only. We recommend you contact us to discuss your specific requirements.

2.0 MATERIAL CATEGORIES

Once Acceptance/Declaration Forms have been approved, the material will be classified into 1 of 3 categories based on the volume of material, test history and origin:

- Pre-approved Managed Fill
- Non pre-approved Fill
- Pre-approved Fill from a Recycling Facility

Pre-Approved Managed Fill:

- Completed Approval/Declaration Form required.
- Documentation required.
 - Detailed Site investigation (DSI) carried out in accordance with the Contaminated Land Management Guidelines Number 5 – Site Investigation and Analysis of soils MfE 2011 by a suitably qualified and experienced contaminated land professional
 - Compliant analytical test reports from an IANZ accredited Laboratory.
 - Imported Managed Fill must also comply with section 4 of this document.
- Classification and Type will be assigned by Stevenson.
- Fill material may be subject to XRF screening at Stevenson's discretion.

Pre-Approval is compulsory for fill originating from any of the following:

- A consented contaminated or suspected contaminated site.
- The area covered by Auckland Councils District Plan – Central Area Section (which includes the CBD)
- Any known Horticultural site.
- Any site listed on the Hazardous Activities and Industries List. (HAIL)

Non Pre-Approved Fill

- Completed Approval/Declaration Form required.
- Classification and Type will be assigned by Stevenson.
- As a condition of Stevenson approval process, non-pre-approved material will be subject to XRF screening at a rate not less than 1 every 100m³ loose and analytical testing at a rate not less than 1 in every 500m³ loose.
- XRF and /or Analytical test loads will be quarantined while samples are taken and testing undertaken.
- Imported Fill must also comply with section 4 of this document.

Pre-Approved Fill from a Recycling Facility

- Completed Approval/Declaration Form required.
- Classification and Type will be assigned by Stevenson. As a condition of Stevenson approval process, Pre-approved fill material from Recycling Facilities must be stockpiled in individual lots at the Recycling Facility, with lots individually numbered and traceable to source/projects or origin. The Recycling Facility will be required to keep registers logging material source, customer and IANZ accredited laboratory test reports for materials in each lot. Lots shall be tested for contaminants as detailed in section 4 of this document at a rate no less than 1 every 500m³ loose and supplied to Stevenson
- Imported fill material MUST NOT originate from Horticultural sites, from any site located within the area covered by Auckland Council District Council – Central Area Section, or any sites where there is evidence to suggest that an activity outlined on the Hazardous Activities and Industries List (HAIL).
- Imported Fill must also comply with section 4 of this document.

3.0 MATERIAL CHARGE BY TYPE

Each of the material categories, Non Pre-approved and Pre-Approved will be further classified and assigned “Material Type” designations to differentiate applicable charges.

Material Classification

- TYPE 1:** Clay / Aggregate / Dry & Sorted Material
- TYPE 2:** Mixed Material - Clay / Aggregate / Unsorted
- TYPE 3:** Unsuitable - Uncompactable Material - Damp/Wet as above
- TYPE 4:** Concrete/Millings/Masonry - Clean Sorted Material (400mm under)
- TYPE 5:** Concrete (Reinforced)/Millings/Masonry - Unsorted material (400mm over)
- TYPE 6:** Top Soil

Non-complying material as determined by Stevenson:

At the sole discretion of Stevenson or following non complying test results of any analytical or screen testing, the Customer/ Account Holder will be advised and the material will need to be removed from site within 3 working days and docketed from the final disposal location MUST BE supplied to Stevenson Immediately

Further investigation may be undertaken on previously deposited material originating from the same source. If it is deemed to be unsuitable by Stevenson, it will need to be removed and disposed of at a suitable facility. Stevenson will notify the customer and will charge a fee to cover the cost of excavation of unsuitable material.

If material is not removed within 3 working days, Stevenson will undertake this work directly and the customer will be liable for all costs associated with the removal, including but not limited to: Excavation, Transport, and Tip Fees at an alternative fill site.

4.0 MANAGED FILL CRITERIA

Stevenson Drury Managed Fill can accept imported fill materials that comply with the following:

- Comply with the definition of 'cleanfill' in the MfE guideline
- Be solid material of an inert nature
- Asphalt
- Bricks & Masonry Blocks
- Ceramics
- Concrete (Unreinforced)
- Concrete (Reinforced) Including exposed reinforcing rods of less than 1 meter in length
- Fibre cement building products
- Glass
- Road Subbase
- Soils, rock, gravel, sand, clay, etc. (Acceptable if free of contamination. See criteria below)
- Pavers, Pipes, Tiles (clay, concrete or ceramic)
- May include incidental tree or vegetative matter less than 2 per cent by volume by load.
- Comply with the definition of 'managed fill' as set out in the Proposed Auckland Unitary Plan:

Managed fills are defined as Facilities where managed fill material is accepted for disposal and **Managed fill material is defined as Cleanfill** type material but where the material may include soils which exceed permitted activity contaminant concentrations that will not result in any significant adverse effect on human health, surface water or groundwater quality, including potable water sources.

- Be below the maximum chemical concentrations for managed fill as set out in the table below.

Parameter		Waste Acceptance Criteria (mg/kg)	Leachability Limit (mg/L)
Metals	Arsenic (As)	70	-
	Boron (B)	260 (45)*	2
	Cadmium (Cd)	7.5	-
	Chromium (Cr)	400	-
	Copper (Cu)	325	-
	Lead (Pb)	250	-
	Mercury (Hg)	0.75	-
	Nickel (Ni)	320 (105)*	1
Zinc (Zn)	1160 (400)*	1	
BTEX Compounds	Benzene	0.004	-
	Toluene	0.75	-
	Ethylbenzene	0.85	-
	Total Xylene	0.45	-
PAH Compounds	Benzo[a]pyrene Equivalence	2.15	-
Other	Free Cyanide****	0.9**	-
	Total DDT (and Isomers)	8.4	-
	Aldrin	0.7	-
	Dieldrin	0.7	-
Background Levels for Volcanic Soils TP153	Total Organic Carbon	14%***	-
	Barium (Ba)	350***	-
	Cobalt (Co)	170***	-
	Magnesium (Mg)	76,600***	-
	Manganese (Mn)	2,500***	-
	Nitrogen (total, N)	8,500***	-
	Phosphorus (P)	3,730***	-
	Potassium (K)	3,660***	-
	Sulphur (S)	2,300***	-
	Tin (Sn)	4***	-
Vanadium (V)	370***	-	

*Concentrations of boron above 45mg/kg, nickel above 105mg/kg and zinc above 400mg/kg in fill materials will require Synthetic Precipitation Leaching Procedure (SPLP) testing to be carried out on the fill materials prior to acceptance, to demonstrate that elevated concentrations of these elements will not mobilise under conditions likely to be present in the fill area.

** To be included in the analysis suite where potential for cyanide contamination is identified.

*** Values extracted from Auckland Regional Council TP153, Table 3 Background Ranges of Trace Elements in Auckland Soils (Volcanic Range).

**** Total Cyanide tested for in the first instance. If results are above Free Cyanide limit, then Free Cyanide testing will be carried out.

5.0 UNACCEPTABLE MATERIAL:

The following materials will **NOT** be accepted onto the site

- Treated Timber, Vegetation, bark, wood chips and green waste
- Asbestos
- Hazardous Waste or Contaminated Material
- Plastics, paper, cardboard, fabrics
- Containers, sealed drums and gas cylinders
- Industrial, construction or demolition wastes including asbestos sheet, carpet, cork, iron, fibreboards, formica, hardboard, plywood
- Electrical components, cabling, insulation
- Household, domestic waste, Medical or Veterinary waste
- Organic material, powders (excluding Peat)
- Material originating from gas works
- Materials with strong Chemical or Hydrocarbon smell or Unusual Colours.