



DATA EXCHANGE[®]

Datacentre Operations

Waste Management Plan

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Approved on	November 15, 2018	Owner	Jitender Singh Beniwal
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Version	Date	Description	Sections	Contact
1.0	September 15, 2018	Document initiated	New document	Jitender S Beniwal



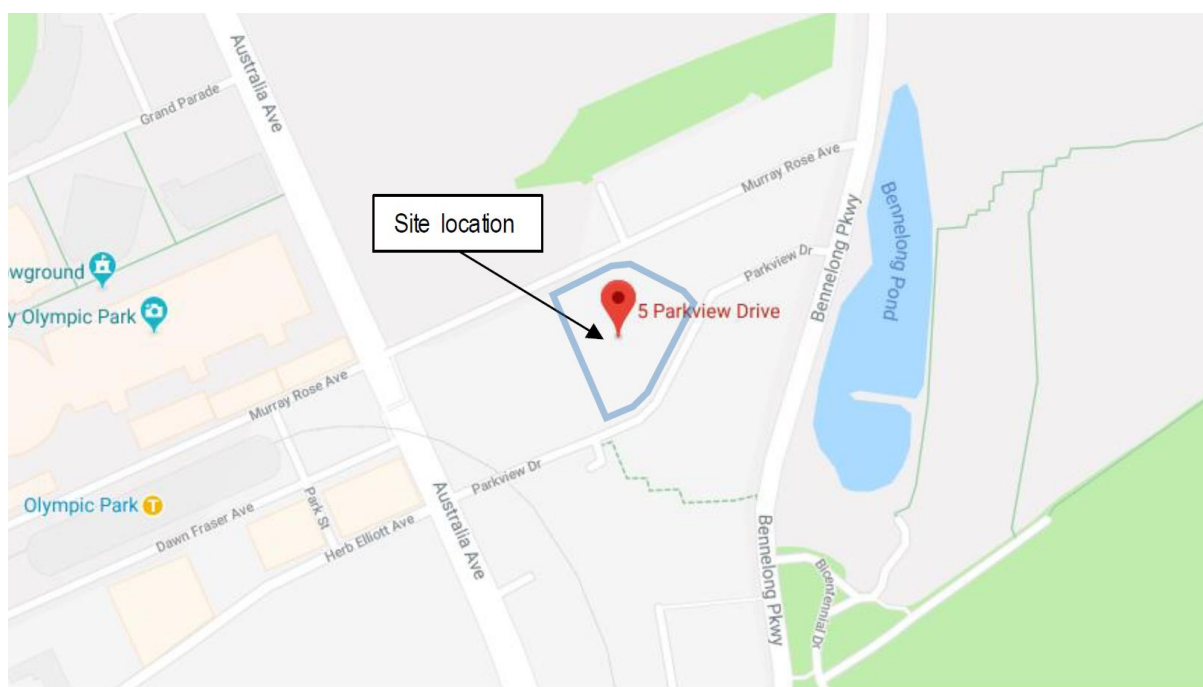
Scope:

This document provides guidelines on managing waste generated in DXN Datacentres.

Site Details:

Business name	Data Exchange Network
Address	Lot 70 DP 818981 5 Parkview Drive, Sydney Olympic Park, NSW 2127
Land use	Commercial, Data Centre (High Technology Industry)
Number of Floors	Single Storey building
Floor area (m ²)	810, Office Space

Site location:



Base image source: Google Maps

Contact persons:

Primary:

Name	Jitender S Beniwal, Operations Manager
Email	jitender@dataexchange.io
Contact Number	0478 052 375



Secondary:

Name	Alex Fil, Constructions Manager
Email	alex@dataexchange.io
Contact Number	0412 446 973

Aim:

The Data Exchange Network (DXN) strives to be one of the most environmentally friendly high-tech businesses, we have a strong appreciation for environmental sustainability. DXN takes every practical measure to reduce and manage the environmental footprint. In line with these principles, DXN has a Waste Management Plan in place.

This waste management plan will be adopted to best suit the business and environmental regulation requirements for site development and operational phases. The overall waste management in the site lifecycle will be in accordance to the *Protection of the Environment Operations Act 1997* (POEO Act).

Waste Management Plan Applicability:

For the site development and subsequent steady state, the waste management is being broadly classified as:

- Construction waste management plan
- Site Operational waste management plan

Waste Classification

The waste generated at the DXN facilities will be classified according to the clause 49 of Schedule 1 of the POEO Act.

- Special Waste
- Liquid Waste
- Hazardous Waste
- Restricted solid waste
- General solid waste (putrescible)
- General solid waste (non-putrescible)

Special Waste:

It is anticipated that the site will **not** generate any Special wastes.
(*applicability: Construction and Operational state*)

Liquid Waste

It is anticipated that the site will **not** generate any Liquid waste.
(*applicability: Construction and Operational state*)

Hazardous Waste

It is anticipated that the site will **not** generate any Hazardous wastes. There would not be any waste generated that belongs to the following classes of the Transport of Dangerous Goods Code.

(applicability: Construction and Operational state)

- Class 1: Explosives
- Class 2: Gases (compressed, liquefied or dissolved under pressure)
- Division 4.1: Flammable solids (excluding garden waste, natural organic fibrous material and wood waste, and all physical forms of carbon such as activated carbon and graphite)
- Division 4.2: Substances liable to spontaneous combustion (excluding garden waste, natural organic fibrous material and wood waste, and all physical forms of carbon such as activated carbon and graphite)
- Division 4.3: Substances which when in contact with water emit flammable gases
- Class 5: Oxidising agents and organic peroxides
- Division 6.1: Toxic substances
- Class 8: Corrosive substances

Restricted solid waste

It is anticipated that the site will **not** generate any Restricted solid waste.

(applicability: Construction and Operational state)

General solid waste (putrescible)

It is anticipated that the site will be generating general solid waste (putrescible) in small quantities.

The contributing factors may include: *(applicability: Construction and Operational state)*

- General office waste that contains putrescible organics
- Waste from litter bins located in the DXN premises
- Food waste
- Any mixture of the wastes referred to above.

General solid waste (non-putrescible)

It is anticipated that the site will be generating general solid waste (non-putrescible) in small

quantities. The contributing factors may include: *(applicability: Construction and Operational state)*

- **Minimal quantities**
 - Glass, plastic, rubber, plasterboard, ceramics, bricks, concrete or metal
 - paper or cardboard
 - grit, sediment, litter and gross pollutants collected in, and removed from, stormwater treatment devices and/or stormwater management systems, that has been dewatered so that they do not contain free liquids
 - garden waste
 - wood waste
 - drained oil filters (mechanically crushed), rags and oil-absorbent materials that only contain non-volatile petroleum hydrocarbons and do not contain free liquids



- drained motor oil containers that do not contain free liquids
- building cavity dust waste that is packaged securely to prevent dust emissions and direct contact
- Any mixture of the wastes referred to above.

Also, IT equipment Waste including motherboards, chipsets, data cables etc. will be managed in collaboration with specialised IT waste management vendors.

General solid waste (non-putrescible) contd.

(applicability: Construction phase only)

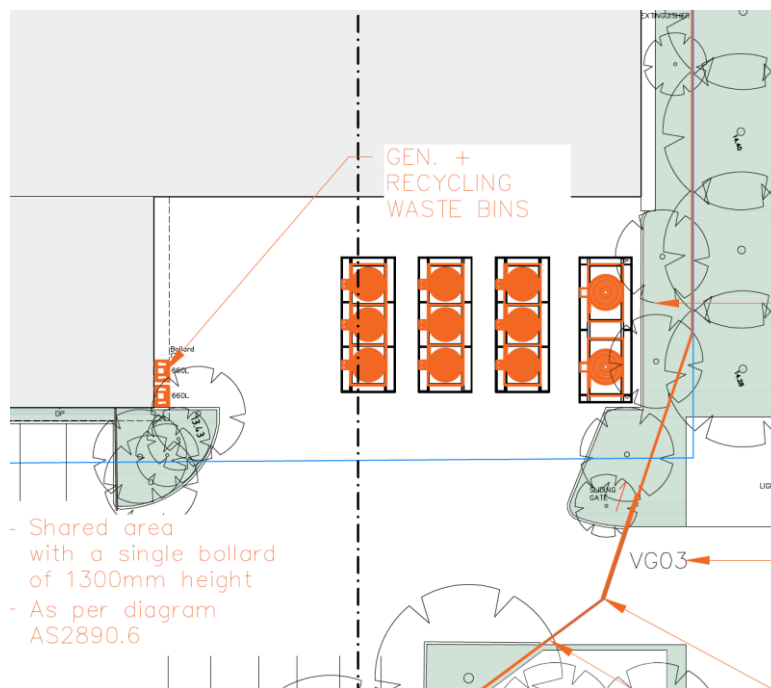
- Building and demolition waste – Minimal quantity
- Virgin excavated natural material - Minimal quantity
- Asphalt waste (including asphalt resulting from carpark construction and waterproofing works)
- Garden Waste

The identified waste will be carefully handled by the strategic waste management vendors DXN will employ to professionally manage lawful disposal of the waste.

Waste collection points:

DXN will have adequate waste bins locations identified to collect the waste, (applicable to construction and Operational state). These waste bins will be setup in collaboration with external professional waste management vendors as applicable.

Waste collection point:



The key locations will be identified by taking into consideration multiple factors including:

- Occupational Health and safety aspects
- Environmental factors
- Key staff gathering areas
- Any hazard / risk reduction effort
- Any information security aspects
- Any regulatory requirements

Site clearance schedule:

The general waste will be cleared from the site on frequent regular frequency, through services provided by a third-party vendor.

Service Schedule	Clearing
Weekly	General waste
Monthly	General waste (IT related etc. on call)
Special request	as necessary



Collection frequency, number and size of bins

Garbage				Recycling			
Collections per week	Bin size	No. Bins	Weekly Volume	Collections per week	Bin size	No. Bins	Weekly Volume
1	660L	1	660	1	660L	1	660

Waste reduction strategy:

DXN will take all possible measure to reduce the waste generate onsite by exercising the following waste minimisation practices such as:

- Info graphics in strategic points to capture onsite personnel's attention
- Periodic information updates to maintain awareness
- Avoiding unnecessary packaging
- Exploring re-using and recycling opportunities
- Mulching tree-pruning and re-use in garden areas
- Regularly educate staff in reducing the waste mixing
- Properly disposing of the recyclable and organic waste.

Bin requirements

The publicly published guidelines by the Combined Sydney Region of Councils has been used to formulate the bin storage requirements as highlighted below.



Appendix B Waste and recycling generation rates for residential and commercial premises

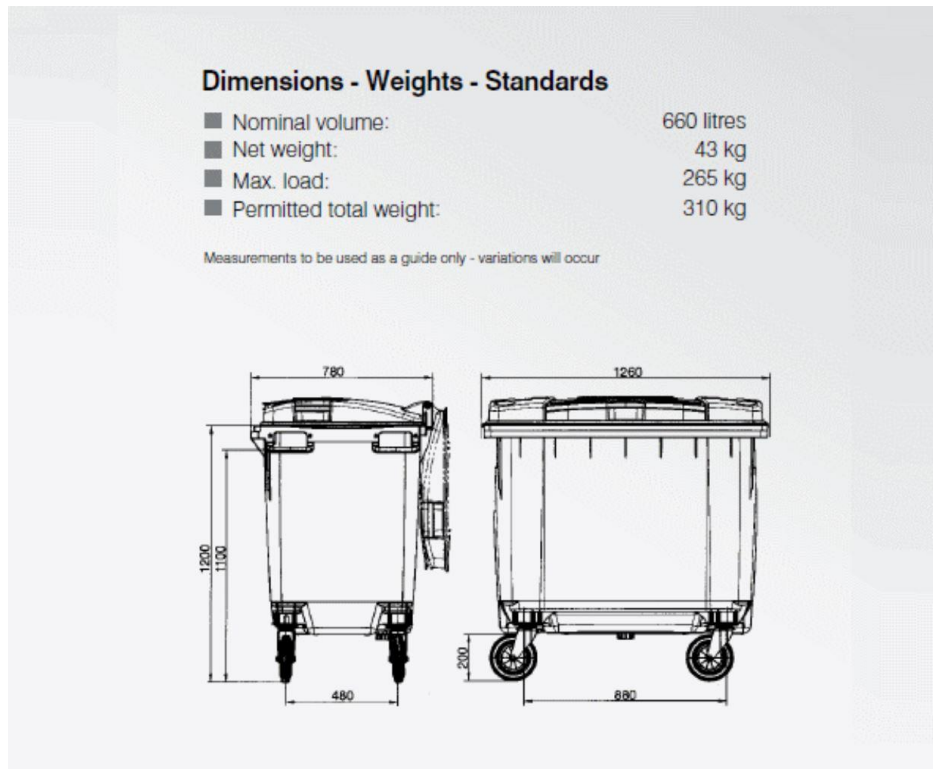
Waste generation rates / area requirements

TYPE OF PREMISES	WASTE GENERATION	RECYCLING GENERATION
Backpackers Accommodation	40L / occupant / week	20 litres / occupant / week
Boarding House, Guest House	40L / occupant / week	20 litres / occupant / week
Food Premises:		
Butcher	80L / 100m ² floor area / day	Discretionary
Delicatessen	80L / 100m ² floor area / day	Discretionary
Fish Shop	80L / 100m ² floor area / day	Discretionary
Greengrocer	240L / 100m ² floor area / day	120L / 100m ² / day
Hairdresser	60L / 100m ² floor area / day	Discretionary
Restaurants	10L / 1.5m ² floor area / day	2L / 1.5m ² floor area / day
Supermarket	240L / 100m ² floor area / day	240L / 100m ² / day
Takeaway	80L / 100m ² floor area / day	Discretionary
Hotel	5L / bed / day 50L / 100m ² / bar area / day 10L / 1.5m ² of dining area / day	50L / 100m ² / of bar and dining areas / day
Licensed Club	50L / 100m ² / bar area / day 10L / 1.5m ² / of dining area / day	50L / 100m ² / of bar and dining areas / day
Motel (without public restaurant)	5L / bed / day 10L / 1.5m ² / of dining area / day	1L / bed / day
Offices	10L / 100m ² / day	10L / 100m ² / day
Retail (Other than food sales)	50L / 100m ² / floor area / day	25L / 100m ² / floor area / day
• Shops less than 100m ² floor space	50L / 100m ² / floor area / day	50L / 100m ² / floor area / day
• Shops over 100m ² floor space		
Showrooms	40L / 100m ² / floor area / day	10L / 100m ² / floor area / day

Source: Combined Sydney Region of Councils - Draft Waste Management Guidelines



Bins dimensions:



References:

1. NSW Environment Protection Authority, <https://www.epa.nsw.gov.au>
2. Sydney Olympic Park Authority / Environment, <https://www.sopa.nsw.gov.au/environment/>
3. Combined Sydney Region of Councils