T: 00353(0)1 [redacted] From Tanna 14/10/2020 08:48:39

Application for an Environmental Permit: Quarry operations and/or Manufacture or processing of asphalt or other non-metallic mineral products

Section 3: Operations on site

Backfilling	☐
Recycling	☑
Mineral extraction	☐
Manufacture or processing of asphalt or other non-metallic mineral product/s	☐

3.4. Is there a mineral extraction Licence for this site?

No

Section 4: Materials and Equipment

4.3. Fuels

Are any fuels proposed to be stored on site?

Yes

Fill in the table below and indicate each fuel storage compartment/tank in the site layout plan requested in Section 7 together with its associated Fill Point Code*:

Fuel Tank Code	Fuel Type	Maximum Tank Capacity (litres)	Annual Consumption (litres)	Storage Tank Arrangements Containment Measure	Use	Fill Point Code (FB)
F1	Diesel	230	0	Double-walled tank with bunding	Re-fuelling of own motor vehicles	FB1

Add more rows as required . Right click on an existing row to delete.

*point of filing of the storage tank as it exists on site

Section 5: Waste Management

5.1. Waste Acceptance on site

Is any waste accepted/proposed to be accepted on site?

Yes

Waste Code	Type of Waste	EWC Code (from Commission Decision 2000/532/EC)	Maximum Amount Stored on site at any one time (tonnes)	Storage and Containment Arrangements	Recovery / Disposal Code (from Schedules 1 and 2 of S.L. 549.63)
WA1	Excavated material	01 01 02	10	Stockpiles	R5
WA2	Gravel and crushed rock	01 04 08	50	Stockpiles	R5
WA3	Concrete (including bricks)	17 01 01/17 01 02	10	Stockpiles	R5
WA4	Tiles and ceramics	17 01 03	10	Stockpiles	R5
WA5	Mixed demolition waste (concrete, bricks, tiles, ceramics)	17 01 07	10	Stockpiles	R5
WA6	Soil and Stones	17 05 04	10	Stockpiles	R5

Add more rows as required . Right click on an existing row to delete.

5.1.1. Weighing equipment

Is weighing equipment present on site?

No

5.1.2. Waste quarantine area

Is there a Waste Quarantine area on site?

Yes

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5.2. Waste Produced on Site

List all waste proposed to be produced on site and all information as requested below:

Waste Code	Type of Waste	EWC Code (from Commission Decision 2000/532/EC)	Maximum Amount Stored on site at any one time	Units	Storage and Containment Arrangements	Destination of waste (permit number of waste carrier or facility accepting waste e.g. IP/EP XXXXX/YY)	Recovery / Disposal Code (from Schedules 1 and 2 of S.L. 549.63)
WM1	Iron and Steel (separated from raw material before crushing)	17 04 05	2000	kg	Skip	TBD once operations begin	D1
WM2	Plastic	17 02 03	500	kg	Skip	TBD once operations begin	D1
WM3	Paper and cardboard	20 01 01	500	kg	Skip	TBD once operations begin	D1
WM4	Wood	20 03 07	500	kg	Skip	TBD once operations begin	D1
WM5	Glass	17 02 02	100	kg	Skip	TBD once operations begin	D1

Add more rows as required . Right click on an existing row to delete.

5.3. Waste Treatment on site

Is any waste treatment (e.g. crushing, sieving, granulating) proposed or used on site?

Yes

Complete the table below and attach flow diagrams which describe how each waste stream is processed on site.

Waste Code (WM or WA) being treated	Type of Treatment	Maximum Quantity of waste treated per day (tonnes)	Waste Produced (WM)	Product Produced (if applicable)	Flow diagram
WA1 to WA6	Crushing	15	N/A	Aggregate	20260922 (112.76 K

Add more rows as required . Right click on an existing row to delete.

Is any waste treatment equipment proposed or used on site?

Yes

List the proposed waste treatment equipment in the table below:

Waste Treatment Equipment Code	Type of Equipment	Waste Code (WM or WA) being treated (from sections 5.1 and 5.2)
WT1	Crusher	WA1 to WA7

Add more rows as required . Right click on an existing row to delete.

Section 6: Water Management

6.1. Effluent Discharges

Does any effluent (excluding domestic sewage discharged to sewer) discharge or is proposed to be discharged from the site?

Yes

Effluent Discharge Code	Source *(Area/Equipment)*	Type of Effluent	Maximum Volume Generated Daily (m^3)	Treatment prior to Discharge *(e.g. filters, chemical/biological treatment, etc.)*	Discharge to*	Geo-referenced coordinates using the WGS 1984 coordinate system in decimal degrees i.e. XX.XXXXX (N) XX.XXXXX (E) (for discharge to **sea**, **groundwater** and/or **land** only)
ED1	Wheel washing	Dust-contaminated water	8	Impervious membrane	Cesspit	

Add more rows as required . Right click on an existing row to delete.

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The above waste treatment equipment codes are to be indicated in site layout plan in section 9.1.

** Certification of bunding and integrity is to be submitted for cesspits / reservoirs. These are to be certified by an independent and warranted engineer. Certifications are to be submitted and clearly labelled as attachment 6.1.*

6.2. Rainwater Management

Please provide a rainwater capture and discharge layout plan. This should show the direction and eventual fate of water within the confines of the site.

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7.1. Point Emission Sources and Combustion plants

Are any point source emissions to air proposed or present on site?

Crushers, sieves/screeners, granulators and generators are considered a source of emissions.
In case of silos on site, please list below the emission point/s from each filtration system for said silos.

Yes

Emission Code	Source/equipment	Fuel (if applicable)	Content of emission	Abatement Measures	Mobility of Equipment (Mobile/Stationary)	Rated Thermal Input (MW_{th})
PS1	Crusher	Diesel	Exhaust and Dust	Water sprinklers, dust fighter	Stationary	0
PS2	Stand-by Mobile Generator	Diesel	Exhaust	Regular maintenance	Mobile	0
PS3	Excavator	Diesel	Exhaust and Dust	Regular maintenance	Mobile	0

Add more rows as required . Right click on an existing row to delete.

Rated thermal input is only required if equipment is **stationary. It refers to the rate at which fuel can be burned at the maximum continuous rating of the combustion plant multiplied by the net heat value of the fuel. This is to be calculated by an independent and warranted engineer.*

7.2. Emissions monitoring (air)

Is any monitoring on the point source emissions currently being performed?

No

7.3. Stockpiles

Are there any stockpiles on site?

Yes

Provide the below information for all stockpiles:

Stockpile code	Stockpile contents	Maximum stockpile height (metres)	Abatement Measures
SP1	Recycled material	4	Watering
SP2	Pre-recycling material	4	Watering

Add more rows as required . Right click on an existing row to delete.

7.5. Noise Emissions

Could any of the proposed activities listed lead to any noise emissions?

Yes

Source	Abatement Measures
Crusher	Acoustic shielding
Vehicles moving in and out of site	Site walled along entire perimeter (with exception of gate)

Add more rows as required . Right click on an existing row to delete.

Section 8: Site Layout Plans

Provide **two** site layout plans of a scale of not less than 1:500, each with a different set of location codes as specified below as applicable:

8.1. Site Layout Plan 1 clearly showing the location of all **waste accepted on site, weighing equipment, waste quarantine area, waste treatment equipment** on site or proposed, using the location codes provided in Section 5.

DRG2238b_Site Layout Plan 1.png (4.67 MB)

8.2. Site Layout Plan 2 clearly showing the location of all **point source air emissions, stockpiles, fuels, fuel fill points** on site or proposed, using the location codes provided in Sections 4 and 7.

DRG2239b_Site Layout Plan 2.png (4.55 MB)

Section 9: Additional information

9.1. Spill Management

Does the proposal include the handling of **liquid chemicals, fuels and wastes**?

Yes

List the measures that are in place to prevent land/water contamination caused by accidental spills.

The fuel tank will be double-walled and surrounded with bunding to prevent spillage.

9.2. Site Management Measures

Provide more information about measures that are in place to tackle the below:

Issue	Measures
Litter and windblown materials	Dumping sites
Birds and scavengers	N/A
Pests	N/A
Site security measures	Escape route/exit
Fire	Fire extinguisher/water hose

9.3. Employees

Tick the below as applicable:

Number of Employees	Tick as applicable
Up to 10	☑
11-50	☐
51-100	☐
100-249	☐
250 or more	☐

9.4. Dust Mitigation Measures

Provide details concerning the dust mitigation measures that are present on site / proposed to be implemented including timeframes when these will be implemented if such measures are not yet on site. The dust mitigation plan should be in a separate document and on a letterhead as this will eventually be recommended to ERA Board as an approved document, and should the permit be determined favourably, it would also be published on ERA's website

Dust Mitigation Comment.docx (229.63 KB)

This document should include the following details:

- mitigation measures that will be taken in order to limit dust emissions from all the waste treatment equipment;
- mitigation measures that will be taken in order to limit dust emissions from stockpiles;
- mitigation measures that will be taken in order to limit dust emissions from scarified material stockpiles (if present and listed in section 7.4);
- wheel washing facilities;
- mitigation measures that will be taken in order to limit dust emissions whenever prevalent wind directions and forces are present.

If the above mitigation measures are not yet in place, the dust mitigation plan must include **timeframes** for the implementation of proposed measures.

Section 10: Report of changes

Is this application intended to modify an approved and valid environmental permit?

No

Section 11: Confidential information

This application form and all supplementary documentation will be made available for public viewing on the ERIS portal. It will also be published for public consultation in accordance with Regulation 13 of the Environmental Permitting (Procedure for Applications and their Determination) Regulations – S.L. 549.172.

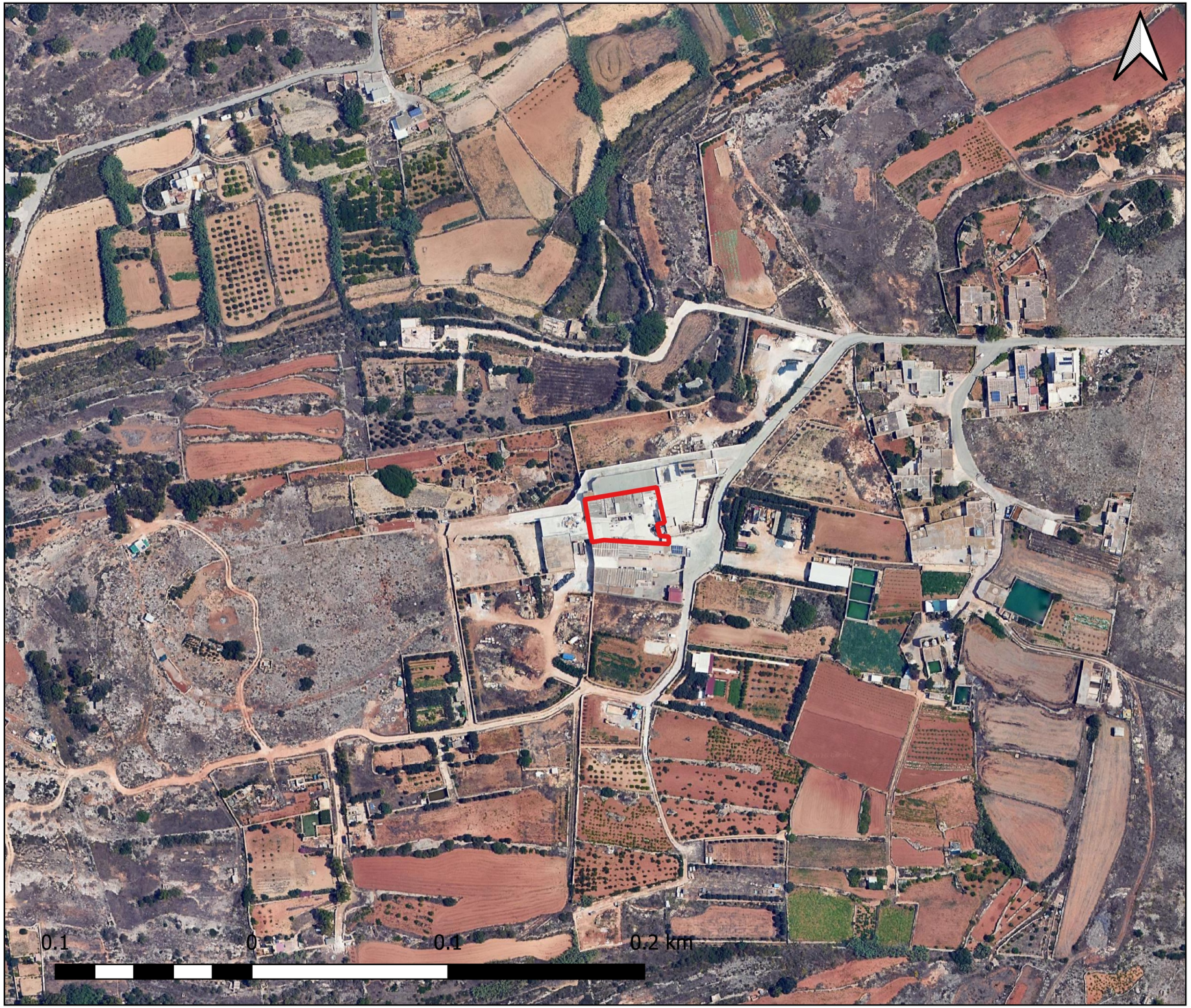
11.1. Do the application and any documents attached to it contain any confidential or commercially sensitive information?

Yes

11.2. Please indicate the information you request not to be published, and justification for this.

Item	Section of Form	Content (if applicable)	Justification	Redacted/non-confidential version (to be made available for public viewing)
11.2.1	Form A Section 1.2	Details of applicant: ID, VAT number, Mobile number, email address of Mark Zahra	If this can be removed for the privacy of the applicant	20260924_Form A_redacted version.pdf (109.86 KB)

Add more rows as required. Right click on an existing row to delete.



Legend

Scheme
(35.890730, 14.350167)



Legend

- Scheme (35.890730, 14.350167)
- Crusher (WT1) **(Fixed)**
- Waste acceptance Area
  - WA1 : 01 01 02
  - WA2: 01 04 08
  - WA3: 17 01 01/17 01 02
  - WA4: 17 01 03
  - WA5: 17 01 07
  - WA6: 17 05 04
- Waste quarantine area
  - WM1: 17 04 05
  - WM2: 17 02 03
  - WM3:20 01 01
  - WM4: 20 03 07
  - WM5: 17 02 02
- **Fixed Siever**
- **Mobile Generator**
- **Recycled material**

Title:

Site Layout Plan 1

Drawing No:	**DRG2238b**		
Design by:	**SF**	Scale:	**1:300**
Drawn by:	**SF**	Date Created:	**10/09/2026**
Approved by:	**SD**	Revision Date:	
Date:	**Sep 2026**		**23/09/2026**

Quote or job No.

EP 0026/19 Dust Mitigation Document

1. Crushing and sieving occurs within a boundary and roofed structure.

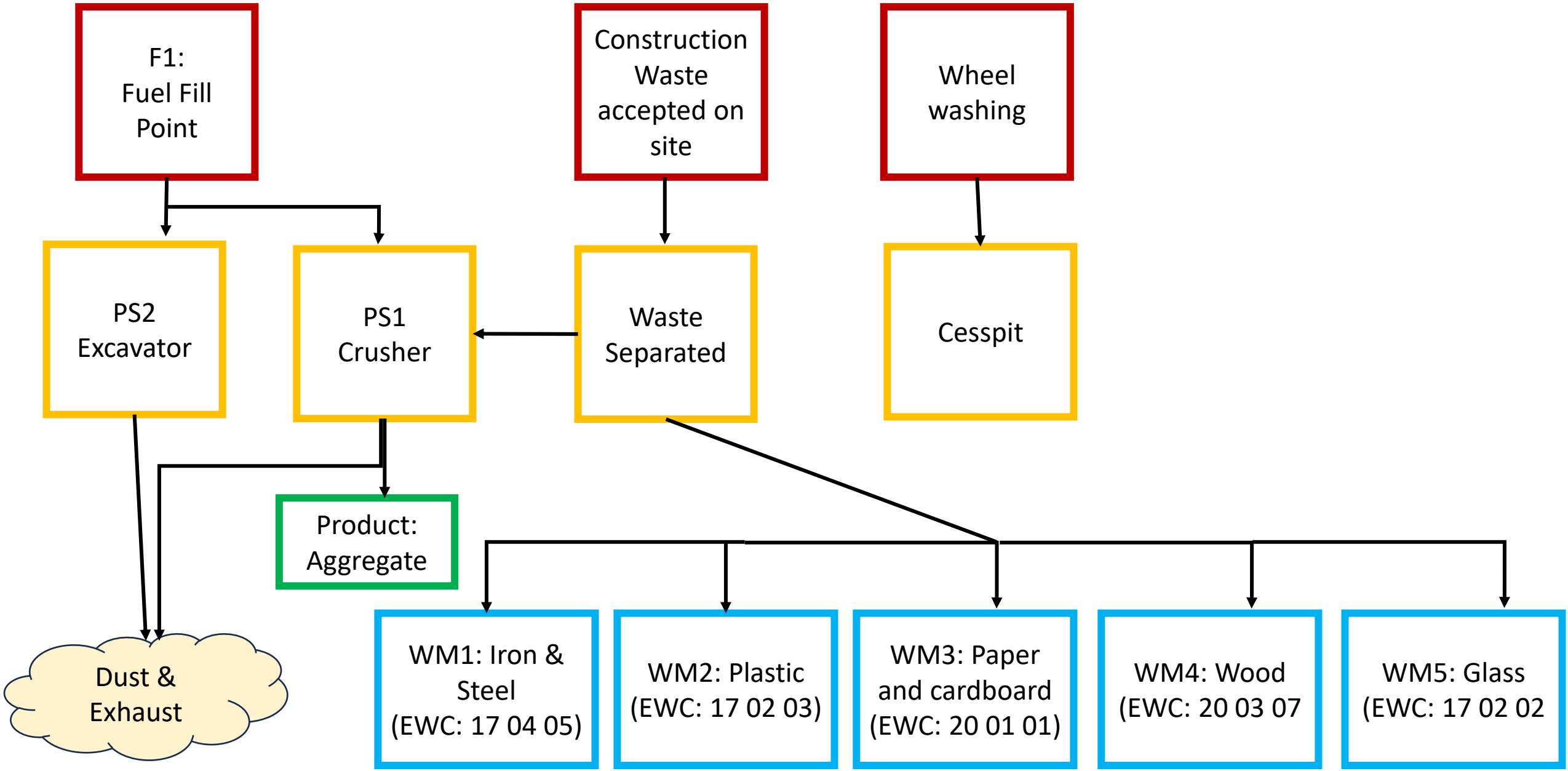
2. Use of mist cannon whilst in operation.

3. Sprinklers are already installed along the conveyor system and outside. These are used regularly as needed, especially during windy conditions.

4. While unloading material, prior to crushing, material is wetted down by the use of a hose.

5. Power washer is utilised at the entrance/exit of the site to wash vehicle wheels.

The above are already installed and to commence when operations start on site.


F1:
Fuel Fill
Point
Construction
Waste
accepted on
site
Wheel
washing
PS2
Excavator
PS1
Crusher
Waste
Separated
Cesspit
Product:
Aggregate
Dust &
Exhaust
WM1: Iron &
Steel
(EWC: 17 04 05)
WM2: Plastic
(EWC: 17 02 03)
WM3: Paper
and cardboard
(EWC: 20 01 01)
WM4: Wood
(EWC: 20 03 07
WM5: Glass
(EWC: 17 02 02

Electrical Load & Inspection Report

1. Inspector & Certification Details

- **Inspected By:** Adrian Dimech
- **Address:** 320 Hope Street, Mosta
- **License No.:** B5583
- **Email:** adriandimech1978@gmail.com

2. Design Basis & System Parameters

- **System Voltage:** 400 V (Three-Phase, Line-to-Line)
- **Frequency:** 50 Hz
- **Power Factor ($\cos\phi$):** 0.85 (Assumed industrial motor standard)
- **Efficiency (η):** 0.88
- **Conversion Units:**
  - 1 hp $= 0.746$ kW
  - 1 kW $= 0.001$ MW
  - **Thermal Load Conversion (1 kW $= 0.001$ MW_{th})**

3. Load Inventory, Current & Thermal Heat Dissipation Calculations

The table below details electrical rating, Full Load Current (FLC), electrical power input (MW_e), and direct heat dissipation (MW_{th}):

- **Full Load Current:** $I = \frac{P_{kW}}{\sqrt{3} \times V_L \times \cos(\phi) \times \eta}$
- **Electrical Power (MW_e):** $P_{e,kW} \times 10^{-3}$
- **Thermal Power / Heat Losses (MW_{th}):** $P_{e,kW} \times (1 - \eta) \times 10^{-3}$

Item Description	Qty	Rating	Electric Power (kW)	Electric Power (MWe)	Thermal Dissipation (MWth)	Full Load Current (A)
Feeder Agitator	1	7 hp	5.22 kW	0.00522 MW_e	0.00063 MW_{th}	10.1 A
Vibrator Feeder	1	0.3 hp	0.22 kW	0.00022 MW_e	0.00003 MW_{th}	1.0 A
Crusher Motor	1	15 hp	11.19 kW	0.01119 MW_e	0.00134 MW_{th}	21.6 A
Hammer Mill Motor	1	18 hp	13.43 kW	0.01343 MW_e	0.00161 MW_{th}	25.9 A
Conveyor Motors	2	15 kW ea.	30.00 kW	0.03000 MW_e	0.00360 MW_{th}	57.8 A *(28.9 A ea.)*

Item Description	Qty	Rating	Electric Power (kW)	Electric Power (MWe)	Thermal Dissipation (MWth)	Full Load Current (A)
Vibrating Screen	1	2.2 kW	2.20 kW	0.00220 MW_e	0.00026 MW_{th}	4.2 A
Dust Fan Extractors	1	2.2 kW	2.20 kW	0.00220 MW_e	0.00026 MW_{th}	4.2 A

4. Total Electrical & Thermal Power Summary

Parameter	Kilowatt Unit	Megawatt Unit (MW)	Notes
Total Mechanical Work Output (P_{mech})	**64.46 kW**	**0.06446 MW**	Shaft power output
Total Electrical Power Consumption (P_{elec})	**73.25 kW**	**0.07325** MW_e	Input electrical power (P_{mech}/η)
Total Apparent Power Demand (S)	**86.18 kVA**	**0.08618 MVA**	At 0.85 Power Factor
Total Motor Heat Losses (MW_{th})	**8.79 kW**	**0.00879** MW_{th}	Direct heat generated by motors into atmosphere
Total Equivalent Process Thermal Output	**64.46 kW**	**0.06446** MW_{th}	Total work dissipated ultimately as friction/heat
Total Current Draw	**125.0 A**	—	Combined Full Load Current