



Wrap Quality Protocol

WRAP Quality Protocol for the
Production of Recycled Aggregates from
Inert Waste: George Killoughery Limited

KILLOUGHERY DEPOTS:

BOTANY QUARRY, BOTANY WAY, PURFLEET, RM19 1SR. TEL: 01708 860 601

43A WILLOW LANE, MITCHAM, SURREY, CR4 4NA. TEL: 0208 648 3737

C/O BRETT AGGREGATES, LITTLETON LANE, SHEPPERTON, TW17 0NF. TEL: 0208 648 3737



Tel: 020 8648 3737

Fax: 020 8685 1405

www.killoghery.eu

MANAGEMENT & OPERATIONAL STAFF RESPONSIBILITIES

Managing Director: Joseph Killoughery

Technical Manager: Shane Batchelor

Facility/Operations Manager: Colin Staunton

Company Sales Manager: John Brown

Transport Manager: Michael Hornegold

Accounts Payable/Payroll: Michelle Miller

Administration: Zoe Quinn

Operational Staff: 20-50 employees on any given days

The Management Team have appointed Shane Batchelor responsible for monitoring the Quality Protocol procedures put in place under the WRAP guidelines.

Colin Staunton has been supplied a copy of the method statement for recycled aggregates production and is aware of the responsibilities expected from him and his team. The information is fed down the line to the Site Operatives who are responsible to action the aforementioned.

KILLOUGHERY DEPOTS:

BOTANY QUARRY, BOTANY WAY, PURFLEET, RM19 1SR. TEL: 01708 860 601

43A WILLOW LANE, MITCHAM, SURREY, CR4 4NA. TEL: 0208 648 3737

LITTLETON LANE, SHEPPERTON, TW17 0NF. TEL: 0208 648 3737

CONTENTS

1. Environmental Permit/ Waste Management Licenses and/or Exemptions
2. Acceptance Criteria At Recycling Centre
3. Method Statement Of Production
4. Factory Production Protocol
5. Flow Chart For The Acceptance & Processing of Incoming Waste
6. Product List/ Frequency of Testing
7. Non-Conforming Recycled Aggregates
8. Non-Compliant Incoming Waste
9. Management & Operational Staff

KILLOUGHERY DEPOTS:

BOTANY QUARRY, BOTANY WAY, PURFLEET, RM19 1SR. TEL: 01708 860 601

43A WILLOW LANE, MITCHAM, SURREY, CR4 4NA. TEL: 0208 648 3737

LITTLETON LANE, SHEPPERTON, TW17 0NF. TEL: 0208 648 3737



Tel: 020 8648 3737

Fax: 020 8685 1405

www.killoughery.eu

ENVIRONMENTAL PERMITS/WASTE MANAGEMENT LICENCES AND/OR EXEMPTIONS

We (George Killoughery LTD) have a Waste Management Licence (EAWML/71275) that covers us to bring in the following permitted wastes:

- An unlimited volume of Inert Waste
- An unlimited volume of General & Biodegradable Waste
- An unlimited volume of Contaminated General Waste

Whilst we have an extremely open limitations guideline, we have a restriction of 222,000 tonnes per year of accepted incoming waste that we cannot exceed.

Our Waste Carriers Licence number is CB/LP3005LY which was issued on 18/06/2010.

All of the above permitted wastes that are recoverable are recycled into secondary aggregates and sold back in to the market place in full compliance with the WRAP Quality Protocol Guidelines.

KILLOUGHERY DEPOTS:

BOTANY QUARRY, BOTANY WAY, PURFLEET, RM19 1SR. TEL: 01708 860 601

43A WILLOW LANE, MITCHAM, SURREY, CR4 4NA. TEL: 0208 648 3737

LITTLETON LANE, SHEPPERTON, TW17 0NF. TEL: 0208 648 3737

ACCEPTANCE CRITERIA AT RECYCLING CENTRE

The following materials will be accepted for processing at GKL Purfleet Depot in accordance with European Waste Catalogue (EWC) Classification:

EWC Code	Waste Description
17 01 01	Concrete including solid dewatered concrete process waste
17 03 01	Material Containing Asphalt
10 11 03	Waste glass based fibrous materials
15 01 07	Glass packaging
17 01 02	Bricks
17 01 03	Tiles and ceramics
17 01 07	Mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06
17 02 02	Glass
17 05 08	Track ballast other than those mentioned in 17 05 07
17 09 04	Mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03

All of the above waste is acceptable under our Waste Management Licence.

The responsibility of ensuring that the material being imported does not fall outside of the above criteria is down to the weighbridge operator, who visually inspects every load when it reaches the weighbridge.

Once the material has been inspected and deemed suitable it is transported to the relevant disposal zone where the load is again visually inspected by the Operational Staff as the load is tipped.

We stockpile the Concrete, Hardcore & Asphalt in separate locations in order to produce the best recycled aggregate possible, as well as offer a range of consistencies and blends which can be adjusted to make them site/customer specific.

KILLOUGHERY DEPOTS:

BOTANY QUARRY, BOTANY WAY, PURFLEET, RM19 1SR. TEL: 01708 860 601

43A WILLOW LANE, MITCHAM, SURREY, CR4 4NA. TEL: 0208 648 3737

LITTLETON LANE, SHEPPERTON, TW17 0NF. TEL: 0208 648 3737

METHOD STATEMENT OF PRODUCTION

As a company we aim to achieve as close to 100% recycling as possible and by producing a wide range of aggregates, fill materials and blended products. This allows us to make better use of everything that is imported into our recycling centre.

The George Killoughery LTD recycling centre is an industrial/commercial site that accepts primarily Inert and Non-Hazardous wastes (please see previous page).

Our Waste Management licence allows us to stockpile the imported waste in order to manufacture a secondary product for an end use within the Construction sector.

We work with Demolition & Dismantling contractors to try and segregate different materials at site before they are transported to our recycling centre. This pre planning allows us to tip the waste directly in the relevant raw feed bays without the need to use picking stations or double handle the material.

As part of our Duty Of Care our waste transfer notes contain the following information:

- Name Of Waste Producer
- Full Address Of Site
- Name Of Waste Carrier
- Full Address OF Disposal Point
- Waste Carriers Licence Number
- EWC Code
- Signatures of All Parties Involved In The Waste Transfer
- Confirmation Of Material Being Produced Within The WRAP Guidelines

We feel that all of the above allows there to be a clear and concise paper trail in case an audit is needed to be carried out on any particular site. It also complies fully with the WRAP Quality Protocol.

KILLOUGHERY DEPOTS:

BOTANY QUARRY, BOTANY WAY, PURFLEET, RM19 1SR. TEL: 01708 860 601

43A WILLOW LANE, MITCHAM, SURREY, CR4 4NA. TEL: 0208 648 3737

LITTLETON LANE, SHEPPERTON, TW17 0NF. TEL: 0208 648 3737



Tel: 020 8648 3737

Fax: 020 8685 1405

www.killoughery.eu

Factory Production Control

The factory production control is a system implemented to monitor the production, quality and consistency of our recycled aggregates. It also ensures that the required material characteristics are achieved and maintained.

We produce an extremely wide spectrum of recycled aggregates at our Purfleet recycling centre. All of the products are required to meet different specifications as they are designed for various applications within the Construction Centre.

The recycled aggregate are tested for a range of suitable end uses and, where applicable, are also tested to make sure that they are of Inert origins and are as free from deleterious matter i.e. wood, plastic and paper etc as possible.

The raw/unprocessed material that is stockpiled has already been through the visual approval test at the weighbridge, as well as a second, more detailed inspection once the load has been tipped in the relevant disposal zone by our extremely competent Operational Site Staff.

The material is loaded in to either our Crusher using our 360 Tracked Excavator. Any metals are removed with a magnet into a skip and any visual foreign objects are handpicked and taken out of the stockpile. The stockpile is then moved and spread so as the material can be handpicked again if required.

Once we are happy with the secondary aggregate within the stockpile, and having confirmed that the material meets its grading requirements (please see Product List/Frequency of Testing document), it is ready for sale back into the market place.

Our stockpiles are visually inspected twice per day and any non-conforming or deleterious materials that have found its way into the processed aggregate is removed immediately.

It is impossible to remove 100% of the deleterious matter; however, our finished aggregate complies fully with the guidelines set by the Highways Agency which states that 1% on weight of a load is acceptable within recycled aggregates.

Due to the various sources, recycled aggregates may also contain up to 0.1% of asbestos, which is the limit set by the Health & Safety Executive.

We carry our regular Clause 710 tests which give a clear and concise break down of percentages for content of various materials within any stockpile, including deleterious matter.

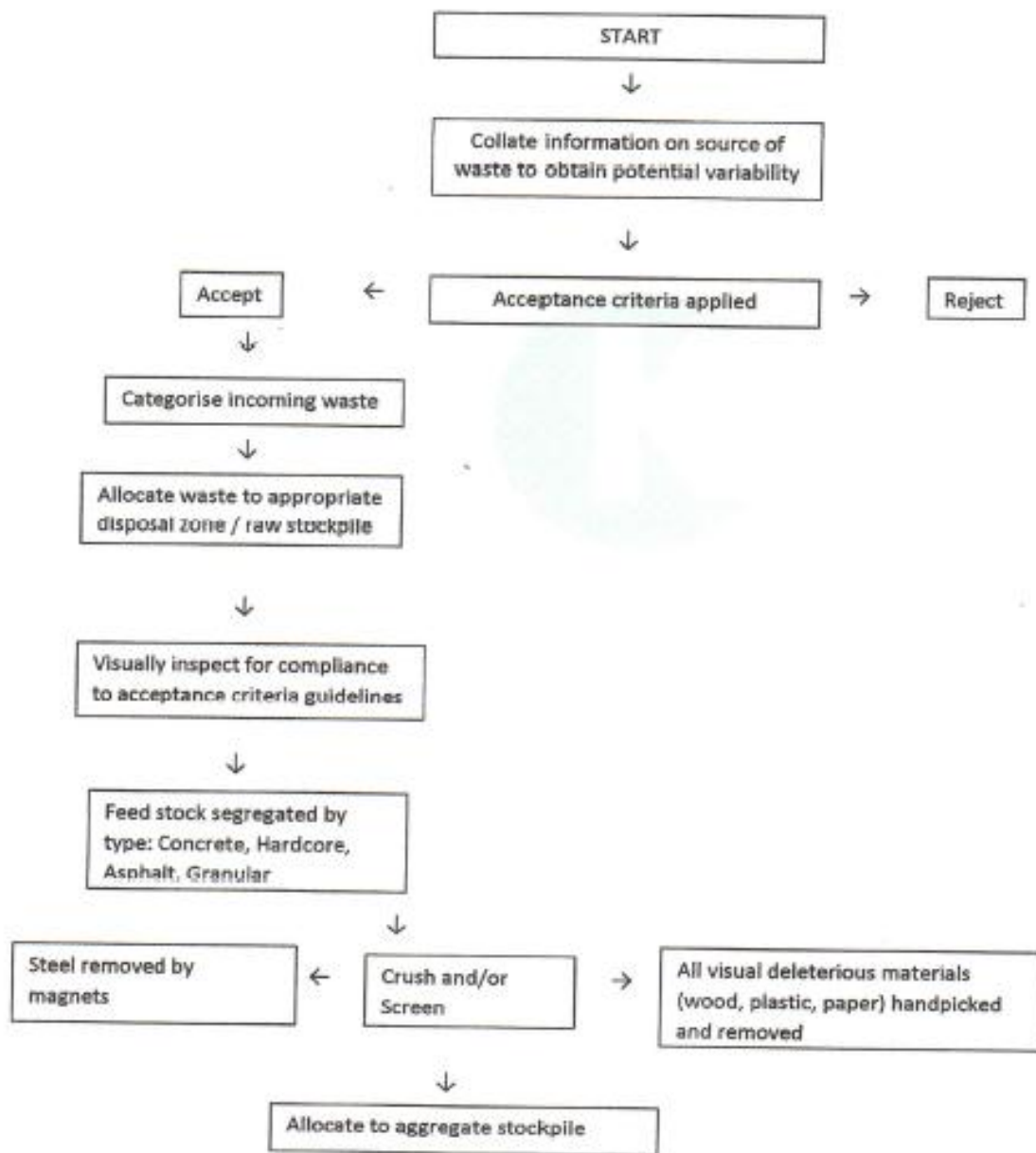
KILLOUGHERY DEPOTS:

BOTANY QUARRY, BOTANY WAY, PURFLEET, RM19 1SR. TEL: 01708 860 601

43A WILLOW LANE, MITCHAM, SURREY, CR4 4NA. TEL: 0208 648 3737

LITTLETON LANE, SHEPPERTON, TW17 0NF. TEL: 0208 648 3737

FLOWCHART FOR THE ACCEPTANCE & PROCESSING OF INCOMING WASTE



KILLOUGHERY DEPOTS:

BOTANY QUARRY, BOTANY WAY, PURFLEET, RM19 1SR. TEL: 01708 860 601

43A WILLOW LANE, MITCHAM, SURREY, CR4 4NA. TEL: 0208 648 3737

LITTLETON LANE, SHEPPERTON, TW17 0NF. TEL: 0208 648 3737

PRODUCT LIST / FREQUENCY OF TESTING

Because of the volume of recycled aggregates that we move from our yard on a yearly basis it is imperative that we use a stringent regime of testing in order to build a substantial test data history to offer our clients.

All of our tests results are kept in the main office at our Purfleet Recycling Centre. Donna McBride is responsible for the technical data history being kept up to date and in order for all of the relevant materials produced. She collates not only the conforming data, but also the non-conforming data as well.

The Materials that we produce are as follows:

- DOT TYPE 1 CRUSHED CONCRETE- full spec test yearly & graded monthly.
- TYPE 1 GRADED ONLY- graded monthly
- 6F2/6F5 GRADED ONLY- full spec test yearly + graded monthly
- 6F4/6F1 GRADED ONLY- graded monthly
- 1A GRADED ONLY- full spec test yearly + graded monthly
- 6F3- Produced on job specific requirements and tested at time of order placement
- 4/10MM RECYCLED SHINGLE- graded monthly
- 10/20MM RECYCLED SHINGLE- graded monthly
- 20/40MM RECYCLED SHINGLE- graded monthly
- 6N/6P- full spec test yearly + graded monthly
- 6G- graded monthly whilst job is running
- 6I/6J- full spec test yearly + graded monthly whilst job is running
- 6H- full spec test yearly + graded monthly whilst job is running

We have a rolling order set up with Site Analytical Services (S.A.S) to come out to our recycling centre and independently sample the above materials in accordance with our testing regime. The full spec certs are carried out by UKAS accredited company.

KILLOUGHERY DEPOTS:

BOTANY QUARRY, BOTANY WAY, PURFLEET, RM19 1SR. TEL: 01708 860 601

43A WILLOW LANE, MITCHAM, SURREY, CR4 4NA. TEL: 0208 648 3737

LITTLETON LANE, SHEPPERTON, TW17 0NF. TEL: 0208 648 3737



Tel: 020 8648 3737

Fax: 020 8685 1405

www.killoughery.eu

NON – CONFORMING RECYCLED AGGREGATES

Recycled materials are always variable and so grading will not pass every time.

Because of the extremely high volumes that we move on a yearly basis from our Purfleet Depot it is imperative that we have regular testing in place to monitor the consistency of our stockpiles.

If any aggregate fails the grading it is removed immediately from the stockpile, rescreened and retested to confirm compliance.

We keep a full history of the non-conforming aggregates in a folder in accordance with the WRAP Quality Protocol.

NON – COMPLIANT INCOMING WASTE

We work extremely closely with local haulage fleets as well as a small number of Independent Demolition contractors which we allow to bring in raw material from their own individual projects on the strict understanding that George Killoughery LTD Manager has been to site to view the material beforehand.

If any loads get to the weighbridge and are deemed as unable to process, whether it is because there is too much deleterious material present or the load contains a high percentage of soil etc, the load will be rejected immediately and sent back to its original site after we have notified the main contractor.

We only want the best of the raw material that is available in order to produce the best recycled aggregate that is possible.

KILLOUGHERY DEPOTS:

BOTANY QUARRY, BOTANY WAY, PURFLEET, RM19 1SR. TEL: 01708 860 601

43A WILLOW LANE, MITCHAM, SURREY, CR4 4NA. TEL: 0208 648 3737

LITTLETON LANE, SHEPPERTON, TW17 0NF. TEL: 0208 648 3737