



Sols pollués
Terres excavées
Déchets industriels
Sous-produit
End-of-waste
Granulats

Towards End-of-waste status of secondary aggregates from construction and demolition wastes in Walloon Region (Belgium) - New technical and regulatory settlements

EUROPEAN FORUM FOR CIRCULAR ECONOMY - 13/10/2020

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Plan

1. General context : EOW and By-Product
2. Specific case of secondary aggregates
3. Advantage/disadvantage

General context : EOW and By-Product

- ❖ 2019 : New legal framework in Walloon Region (Belgium) to enforce « End-of-Waste » and « By-product ».
- ❖ Under conditions, a product or substance are allowed to quit or never integrate the Waste legal status.

General context : EOW

WASTE

=[2008/98/EC : Any substance or object which the holder discards or intends or is required to discard]



WASTE

=PRODUCT

(for specific application(s))

Exemple :

- ❖ EU : Iron, Steel, Copper, Aluminium and Glass Cullet



- ❖ WR (BEL) : Paper used as paperfiber



- ❖ WR (BEL) : secondary aggregates from construction and demolition wastes used as concrete, mortar, asphalt, subgrade, subbase, base.



- ❖ WR (BEL) : possibility to recognized other waste to specific application

General context : By-Product

WASTE (for specific application(s))

[2008/98/EC : “A substance or object, resulting from a production process, the primary aim of which is not the production of that item”]

Exemple :

❖ EU :
No exemple

- ❖ WR (BEL) :
 - ❖ Agrifood residues for animal feeding
 - ❖ Wood residues for paper, mulch, panel, thermal insulation, incineration
 - ❖ Glass residues for glass product

❖ WR (BEL) : possibility to recognized other waste to specific application

NEW :calcium carbonate

General context : Goals

- ❖ **Administrative simplification** : avoid waste requirement for transport, permitting, storage, traceability
- ❖ **Paradigm change**
 - ❖ Equal as natural resources
 - ❖ Brand image
- ❖ **Regularization** of « grey zone » waste flow

General context : EOW & by-product - Exclusions & conditions

EOW Exclusions

- Energy recovery
- Agricultural spreading
- Excavated soil
- Landfill valorisation operation

EOW Conditions

- Specific application
- Conform to Product regulation
- There is a market
- No global effect on human health and environment

By-product Exclusions

No exclusion

By-product Conditions

- Specific application
- Conform to Product regulation
- Resulting from a production process, the primary aim of which is not the production of that item
- No global effect on human health and environment

General context : EOW by-product - Administrative process

- Each flow for specific application has to be **recognized** by EU or Walloon Region
- Recognition process : introduce Technical and Administrative Dossier to authorities
- Once it's approved by authorities, it's recognized for everyone in Walloon Region
- If a company wants to integrate his own flow as EOW or By-Product : need to be **registered** by authorities
- Registration process : introduce Technical and Administrative Dossier to authorities (& giving clues that his own flow is conform to required specifications)

Remarks :

- Possibility to make recognize a EOW or By-product recognition of an other UE country
- If a Company or a group of Company have introduced the Recognition dossier, they are automatically registered.

Specific case of secondary aggregates

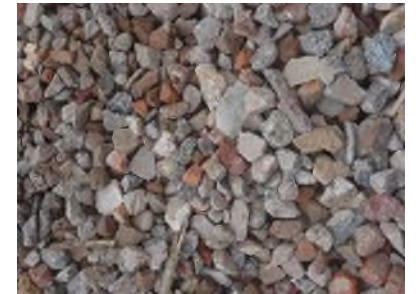
Secondary aggregates from construction and demolition



Recognized as End-of-Waste product

Secondary aggregates producer should **register** to benefit of the EOW Status

! Mandatory to register before 1 july 2021!



Specific case of secondary aggregates - Conditions

Conditions :

- In order with permitting
- Inert waste only
- Certified quality management system required
- Certified production control compliance - CE marking AVCP 2+



Specific case of secondary aggregates - Conditions

Conditions :

- Environmental testing & conditions:
 - Leaching test (NBN EN 12457-2 or 4)
 - Chromato test (ISO 16703) + EOX (NEN 6979)

Paramètres	Seuil limite	Unités
Hydrocarbures extractibles (C10 à C40)	1 500	mg/kg M.S.
EOX (3)	7	mg/kg M.S.

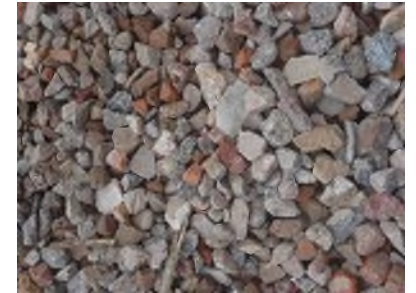
1 analysis on 1 composite sample each 5000 t (or 4 weeks if <5000 t)

Paramètres	Seuil limite (**)	Unités
pH	7 - 12	
Conductivité	8 000	S/cm
Métaux:		
Sb	0,2	mg/L
Al	2 000	mg/L
As (Tot)	0,1	mg/L
Cd	0,1 (*)	mg/L
Co	0,1	mg/L
Cr(VI)	0,1 (*)	mg/L
Cu	2,0 (*)	mg/L
Hg	0,02 (*)	mg/L
Pb	0,2 (*)	mg/L
Mo	0,15	mg/L
Ni	0,2 (*)	mg/L
Ti	2,0	mg/L
Zn	0,9 (*)	mg/L
Azotés		
NO2-	3,0	mg/L
NH4+	50,0	mg/L
Sels		
Cl-	500,0	mg/L
CN-	0,48	mg/kg M.S.(1)
F-	5,0	mg/L
SO42-	1 000,0	mg/L
Hydrocarbures aromatiques polycycliques		
Anthracène	0,1	µg/L
Fluoranthène	0,12	µg/L
Naphtalène	130	µg/L
Benzo(a)pyrène	0,27	µg/L
Benzo(b)fluor-anthène	0,017	µg/L
Benzo(k)fluor-anthène	0,017	µg/L
Benzo(g,h,i)perylène	0,0082	µg/L

	APPLICATIONS						
	Remblayage technique	Enrobage	Utilisation en tant que MAR(*)	Sous-fondation	Fondation et Bétons maigres	Bétons de structure	Revêtement
	NORMES APPLICABLES						
	NBN EN 13242	NBN EN 13242	NBN EN 13242	NBN EN 13242	NBN EN 12620 ou NBN EN 13242	NBN EN 12620	NBN EN 12620 ou NBN EN 13043
Produits							
Sable de débris de béton	x	x	x	x	x	x	x
Grave de débris de béton	x	x	x	x	x	x	x
Gravillon de débris de béton	x			x	x	x	x
Sable de débris mixte	x	x	x	x	x	x	
Grave de débris mixte	x	x	x	x	x	x	
Gravillon de débris mixte	x			x	x	x	
Sable de débris hydrocarbonés	x	x	x	x	x		x
Grave de débris hydrocarbonés	x	x	x	x	x		x
Gravillons de débris hydrocarbonés	x			x	x		
Sable de pierre naturelle	x	x	x	x	x	x	x
Grave de pierre naturelle	x	x	x	x	x	x	x
Gravillon de pierre naturelle	x			x	x	x	
Sable de matériaux pierreux	x	x	x	x	x	x	x
Grave de matériaux pierreux	x	x	x	x	x	x	x
Gravillon de matériaux pierreux	x			x	x	x	

Specific case of secondary aggregates – Advantage/disadvantage

Disadvantage	Advantage
Should be EOW at EU level	Increase of product quality
Increase aggregate producer cost (sustainable for small business?)	Decrease unfair competition
Deadline 1st july 2021 (very short)	Environmental control
Some environmental parameter are low (SO4 2-)	Quality control & certification → more confidence
	Promote secondary aggregates use



To learn more :

- Décret déchets : <http://environnement.wallonie.be/legis/dechets/degen019.htm>
- Arrêté EOW : <http://environnement.wallonie.be/legis/dechets/degen040.htm>
- Arrêté Sous-produit : <http://environnement.wallonie.be/legis/dechets/degen041.htm>
- Formulaire et dossier technique : <https://sol.environnement.wallonie.be/home/accueil-dechets/sortie-du-statut-de-dechet---sous-produits.html>
- Transferts transfrontaliers : <https://ec.europa.eu/environment/waste/shipments/index.htm>
- Base de données TRIS : <https://ec.europa.eu/growth/tools-databases/tris/fr/search/>
- Formation "Sortie du statut de déchet" et "sous-produits" du 16 octobre 2019 : <https://sol.environnement.wallonie.be/home/accueil-dechets/formations-dechets/archives-des-formations/formation-end-of-waste-2019.html>

Intitulé	Orateur	Powerpoint	Audio
Présentation des AGW relatifs à la sortie de statut de déchet et à la reconnaissance de sous-produit	Aubry Collignon, DIGPD	PDF	Version audio de l'exposé
Elaboration des dossiers de demande	Emerance Bietlot, ISSeP	PDF	Version audio de l'exposé
Benchmarking sur les sorties de statut de déchet en Europe	Maxime Baijot, ISSeP	PDF	Version audio de l'exposé
Sortie de statut de déchet pour les granulats recyclés	Alexis Demey - Ingénieur conseil environnement	PDF	Version audio de l'exposé



Thanks for your attention



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