

Using sediment as a resource

Inventory catalogue



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European



International

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European

European projects and structures

In this section we present the main projects and structure achieved for the reuse of dredged sediments in the European area.

The different European projects and structures are compiled into a table in the data base according to their name, countries, date and aims.

Data base



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European / Data base



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Name	Country	Date	Aims
PRISMA	Fr, GB, NE, BE	2009-2014	Valorization, treatment,
SETARMS	Fr, GB,	2009-2013	Road valorization & treatment
VAMORAS	Belgium	2011	Mechanical Dewatering
COAST-BEST	Italia		Preserve the quality of coastal
GeDSet	France	2013	Cross border sediment management (decision tool)
CEAMaS	Belgium, France, Irlande et des NE	2015	Marine Sediment reuse in engineering application
EUMARSIN	UE	1998-2000	Modelling data management
UE Dredging	UE	1993-2013	The European Dredging Industry: Maritime Success Story
Agronomic valorisation of sediment in Saône - et - Loire	FR	2012	Agronomic valorisation of sediment in Saône - et - Loire
Dunkerque road using sediment	FR	2003	Road valorization & treatment

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Name	Country	Date	Aims
<u>CABRRES</u>	FR	2012-2016	chemical, microbiological, spatial characteristics and impacts of contaminants from urban stormwater detention basins : Assessment and Management of Environmental and Human Health Risks
<u>DECAPAGE</u>	FR	2011-2015	In Depth characterization of HC-degradation CAPAcities of marine sediment microbial communities: adaptation, metabolic processes and influence of oxyGEnation regimes
<u>DYNAMO</u>	FR	2011-2015	MorphoDYNAmics of tidal inlets: 3D numerical MOdelling and impacts on pollutant circulation
<u>GEOMAR</u>	FR	2013-2017	Water resource management in the Eastern Mediterranean: the example of Alexandria and its water system

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Name	Country	Date	Aims
<u>HYDRE</u>	FR	2014-2019	Mechanical behaviour of gas-hydrate-bearing sediments
<u>INTERCONNECT</u>	FR	2012-2015	INTERCONNexions between terrestrial and aquatic bioaccumulations of organometallic compounds in food webs
<u>IZOFLUX</u>	FR	2011-2014	Joint study of Zostera meadows impact on benthic processes and fluxes in coastal zones
<u>MATUGLI</u>	FR	2014-2017	Autonomous Measurements of coastal Turbidity from GLIders
<u>MOBISED</u>	FR	2014-2019	Modelling the reMOBilization of SEDiments and the release of associated contaminants
<u>MODSED</u>	FR	2012-2016	Modelling of the local processes in sediment transport
<u>RISCO</u>	FR	2013-2016	Responses of pelagic microorganisms to contamination by polluted sediments

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Name	Country	Date	Aims
<u>SCAF</u>	FR	2012-2015	A novel System for the Characterisation of Agregates and Flocs in highly concentrated rivers
<u>SEDIFLO</u>	FR	2015-2019	Modelling and simulation of solid transport in rivers
<u>SEDIMAN</u>	FR	2015-2019	SEDiments in the largest rivers of China: Messengers from geological processes and environmental chANge
<u>SEGSED</u>	FR, ENG	2016-2020	Size Segregation in Sediment Transport
<u>SUNRISE</u>	UE	2015-2017	Sediment fluxes, tUrbidity aNd seafloor Integrity for the MaRlne StratEgy
<u>ANDES</u>	FR	2006-2009	ANALysis of Differences in Erosion rate and Sediment discharges over time in the Andean forearc region (Peru and Northern Chile)
<u>DHYVA</u>	FR	2009-2009	Dégradation d'HYdrocarbures dans les VAsières (DHYVA)

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Name	Country	Date	Aims
<u>DIESE</u>	FR	2008-2012	Outils de Diagnostic de l'Ecotoxicité des SEdiments
<u>ECO-MIST</u>	FR	2011-2015	Etude des processus d'érosion continentale à l'aide de nouveaux traceurs moléculaires et isotopiques
<u>INBIOPROCESS</u>	FR	2007-2011	Linking biodiversity and ecological processes in the subsurface / surface water interfaces for sustainable ground water management
<u>PROPSD</u>	FR	2008-2011	Développement de Procédés Physiques pour la Valorisation des Sédiments de Curage
<u>RISCO</u>	FR	2013-2016	Réponses des microorganismes pélagiques à une contamination par sédiments pollués
<u>SEDIBET</u>	FR	2007-2010	Utilisation de sédiments inertés et de fines dans la conception de nouveaux bétons
<u>SEDIGEST</u>	FR	2008-2011	Elaboration d'une méthodologie de validation de la filière «restauration de cavités terrestres de la bande littorale »
<u>SEDIMARD83</u>	FR	2009	Projet de recherche de traitements sur des sédiments marins dragués contaminés
<u>Add more</u>			

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International

International projects and structures completed

In this section we present the main projects and structure achieved for the reuse of dredged sediments in the International scale.

The different international projects and structures are compiled into a table in the data base according to their name, countries, date and aims.

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International / Data base



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Name	Country	Date	Aims
<u>Beneficial Use of Dredged Material in the Great Lakes</u>	USA	2013	Dragage, valorisation
<u>Dredging Protocol FAL</u>	ENG	2005	Dragage, aménagement
<u>Valorization of dredged sediment of morocco in construction material</u>	Maroc	2011	Valorisation des sédiments de dragage portuaire du nord du Maroc dans des matériaux de construction en terre cuite
<u>Conception of eco-material made with sediments</u>	Algérie	2015	Conception d'éco-matériaux à partir de sédiments
<u>Valorization of dredged sediment of Algeria in construction material</u>	FR / ALG	2015	Valorisation de la vase de barrage dans la production d'une brique
<u>Valorization of dredged sediment in a breakwater of geotextile bags</u>	ENG	2016	Beneficial reuse of dredged material in a breakwater of geotextile bags

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International Structure / Base de données



Project
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Name	Country	Date	Aims
http://www.envisan.com/en/activites/environmental-works/sediment-treatment-and-environmental-dredging	Belgium	2012-2013	Dike, Flood control dike, Vlassenbroek ; 105000 m ³ of sediments
<u>Valorisation de la vase de barrage dans la production d'une brique</u>	Algeria		Blocks & Brick production, Academic issues
<u>Cinq ans de valorisation des sédiments contaminés</u> - * concrete blocks	France	2013	Anti waves block ; 600 m3 of sediment used
<u>Cinq ans de valorisation des sédiments contaminés</u> - *road construction	France	2013	Road construction, Wet sediments → 1800m3

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International Structure / Base de données



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Name	Country	Date	Aims
<u>BENEFICIAL USE OF SEDIMENT</u> *Topsoil	Chicago, Illinois, USA	2003	Topsoil « Mud to Parks » 105,000 tons; \$1.4 million
<u>BENEFICIAL USE OF SEDIMENT</u> *Barrier island	Green Bay, Wisconsin, USA	2014	Barrier island The Cat Island Chain Restoration Project; 2350000 m3 ; \$20 million
<u>BENEFICIAL USE OF SEDIMENT</u> *Landfill	Cleveland, Ohio, USA	---	Landfill, Brownfield site off Pershing Avenue; 230000 m3 of sediments
<u>BENEFICIAL USE OF SEDIMENT</u> *habitat restoration	Minnesota , Wisconsin USA	2013	habitat restoration Duluth,— Superior, 30000 m3
<u>Add more</u>			

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Geotechnical / Mechanical



Physicochemical / Mineralogical / environmental



Dredging

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Geotechnical / Mechanical



Character-
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Geotechnical and Mechanical characterization

In this section we present the main geotechnical and mechanical characteristics of dredged sediments studied in the different project or research.

The different geotechnical and mechanical studies are compiled into a table according to their aims and date.

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Geotechnical / Mechanical / Data base



Character-
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Date	Aims
2013	A review of the mechanical and leaching performance
2016	Beneficial Reuse of Dredged Material
2008	Calcination des Sédiments de Dragage Contaminés
2011	Caractérisation de sédiments marins pour une mise en dépôt à terre et en remblai
2014	Caractérisation des sédiments de dragage du barrage de Bouhanifia
2010	Caractérisation et valorisation des sédiments Tanger
2014	Caractérisation géotechnique des sédiments
2010	Caractérisation géotechnique des sédiments de dragage marins
2013	Caractérisation sur chemin de drainage
2015	Conception d'éco-matériaux à partir de sédiments
2012	Co-valorisation de sédiments et de sols fins
2000	Dragage et Rejet en Mer
2015	Durability of mortars made with dredged sediments
2009	Effect of humic acid

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Geotechnical / Mechanical / Data base



Character-
ization

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Date	Aims
2015	<u>envasement du barrage de Bouhanifia</u>
2014	<u>Essais d'aptitude au traitement des sédiments</u>
2007	<u>Etude des possibilités de valorisation des sédiments de dragage d'entretien</u>
2006	<u>Etude du comportement physico-mécanique et caractérisation</u>
2003	<u>Etude d'une grave routière à base de sable de dragage</u>
2009	<u>Evaluation environnementale de la réutilisation de sédiments de dragage en tant que matériau alternatif</u>
2015	<u>Ground Investigation Factual Report</u>
2012	<u>Guide méthodologique sur le dragage par injection d'eau</u>
2008	<u>Guide pour la gestion durable des déblais de dragage portuaires contaminés en France</u>
1996	<u>Guide technique régional relatif à la méthodologie de gestion des sédiments de dragage portuaire</u>
2006	<u>Inertage et valorisation des sédiments de dragage marins</u>
2002	<u>Influence of the nature of organic compounds</u>

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Geotechnical / Mechanical / Data base



Character-
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Date	Aims
2008	<u>Première approche vers la valorisation de granulats artificiels à la base de sédiments</u>
2009	<u>Procédé des boues de dragage avec géo conteneur offrant de nombreux avantages</u>
2016	<u>Request for Pre-Application Sampling Advice</u>
2011	<u>Solidification et valorisation de sediments de dunkerque en travaux routiers</u>
2007	<u>Traitement des sédiments de dragage</u>
2013	<u>Traitement et Valorisation de Sédiments de Dragage Phosphatés</u>
2016	<u>Treatment of river sediments by hydraulic binders</u>
2010	<u>Valorisation de sédiments traités en techniques routières</u>
2012	<u>Valorisation des Sédiments contaminés dans les mortiers</u>
2008	<u>Valorisation des sédiments de dragage traités par le procédé NOVOSOL</u>
2010	<u>Valorisation des sédiments marins contaminés</u>
2011	<u>Valorisation des sédiments marins par solidification-stabilisation</u>
2013	<u>Valorisation et caractérisation de la durabilité</u>

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Geotechnical / Mechanical / Data base



Character-
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Date	Aims
2004	Méthodologie de gestion des matériaux de dragage maritime
2010	Mise en place d’une nouvelle approche de formulation
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Physicochemical / Mineralogical / environmental



Character-
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Geotechnical mechanical and environmental characterization

In this section we present the main Geotechnical mechanical and environmental characteristics of dredged sediments studied in the different project or research.

The different Geotechnical mechanical and environmental studies are compiled into a table according to their aims and date.

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Date	Aims
2013	A review of the mechanical and leaching performance
2015	Agricultural Benefits Statements
2004	Aide à la gestion alternative au rejet en mer des sédiments contaminés
2012	Alternative au largage en mer des sediments dragués au port d-Oran
2016	Beneficial Reuse of Dredged Material
2016	Brightlingsea Harbour
2008	Calcination des Sédiments de Dragage Contaminés
2011	Caractérisation de sédiments marins pour une mise en dépôt à terre et en remblai
2014	Caractérisation des sédiments de dragage du barrage de Bouhanifia
2010	Caractérisation des sédiments des retenues EDF
2012	Caractérisation des sédiments du port de plaisance de Croisic
2001	Caractérisation des sédiments en vue d'un projet de dragage
2008	Caractérisation et valorisation de sédiments fluviaux pollués et traités

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Date	Aims
2010	<u>Caractérisation et valorisation des sédiments Tanger</u>
2009	<u>Caractérisation physico-chimique des sédiments au Togo</u>
2010	<u>Caractérisation physico-chimique des sédiments marins du littoral de Tanger</u>
2012	<u>Caractérisation physico-chimique d'un sédiment marin traité</u>
2015	<u>Caractérisation physique et environnementale</u>
2011	<u>Caractérisations des sédiments avant dragage</u>
2007	<u>Critères pour l'évaluation de la qualité des sédiments au Québec</u>
2010	<u>Détermination des caractéristiques physiques des sédiments fins de dragage</u>
2010	<u>Environmental assessment of the potential impact</u>
2014	<u>Essai de lixiviation de sols et déchets fragmentes</u>
2010	<u>Etude bibliographique de l-impact des opérations de dragage</u>
2014	<u>Etude comparative sur les caractéristiques physico-chimiques</u>
2003	<u>Evaluation des risques liés à l'immersion des boues de dragage des ports maritimes</u>

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Physicochemical / Mineralogical / Database



Character-
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Date	Aims
2013	évaluation du risque ecotoxicologique du rejet en eau libre des sédiments
2015	Ground Investigation Factual Report
2008	Guide pour la gestion durable des déblais de dragage portuaires contaminés en France
2006	Inertage et valorisation des sédiments de dragage marins
2002	Influence of the nature of organic compounds
2004	Méthodologie de gestion des matériaux de dragage maritime
2015	Méthodologie d'évaluation de l'écotoxicité
2013	Public health, england and wales
2016	Request for Pre-Application Sampling Advice
2015	Salcombe harbour bathymetric survey pre-dredge
2016	Saltmarsh study
2012	Suivi environnementaux des opérations de dragage et d'immersion

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Physicochemical / Mineralogical / Database



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Date	Aims
2010	Valorisation des sédiments marins contaminés
2014	Windsor site Waste classification and assessment of disposal options
2010	Environmental assessment of the potential impact of proposed dredging works within the salcombe kingsbridge estuary
2015	Salcombe Harbour Bathmetric Survey: Pre-dredge July 2015
2014	Windsor Marina 2015 Ramboll Statement.
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Dredging / Base de données



Character-
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Date	Aims
2000	Dragage et Rejet en Mer
1999	Dragages et environnement marin
2004	Dredging Protocol
2002	Guide d'échantillonnage des sédiments du Saint-Laurent
2009	Inventaire détaillé des techniques de curage
2016	Request for Pre-Application Sampling Advice
2012	Suivi environnementaux des opérations de dragage et d-immersion
2013	How to comply with your landspreading permit
Added documents	

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Regulation
Aspect



European Regulation



International Regulation

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European Regulation

Context

In this section we present the main European regulations relatively to dredged sediments in different countries. These take into account the dredging conditions, the pollutant threshold, dumping conditions or reuse, etc.

The different regulations laws, decree, regulations are classified into a table according to the countries where they can be applied.

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European Regulation / Base de données



Regulation
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Countries	Regulation name	Year of publication
France	<u>Analyse comparative des différents modes de gestion des sédiments</u>	2008
France +GB	<u>Le Projet SETARMS</u>	2013
France +GB	<u>SETARMS-2</u>	2015
France	<u>Contexte réglementaire relatif à la gestion</u>	2011
France	<u>Dragage et immersion des sédiments des ports de la Charente-Maritime</u>	2014
France	<u>Evaluation des risques liés à l'immersion des boues de dragage des ports maritimes</u>	2003
GB + NE +FR +BEL	<u>Final report PRISMA</u>	2014
France	<u>Extraction et rejet de sédiments</u>	2014
France	<u>Cadre régional "Gestion à terre des sédiments de dragage de cours d'eau et retenues de barrage"</u>	2014

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European Regulation / Base de données



Regulation
Aspect

Countries	Regulation name	Year of publication
France	Guide pour la gestion des opérations de dragage	2005
France	Guide technique régional relatif à la méthodologie de gestion des sédiments de dragage portuaire	1996
France	Impacts sur les milieux aquatiques des sédiments de dragage gérés à terre : problématique, contexte réglementaire, modélisation du transfert de contaminants organiques	2009
Europe	La convention pour la protection de l'environnement marin de l'atlantique nord-est (OSPAR)	2007
France	Planifier le dragage des ports en Bretagne	2013
Europe	Propriété de danger des sédiments marins & fluviaux : caractéristiques et statuts d'un sédiment de dragage	2014

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European Regulation / Base de données



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Countries	Regulation name	Year of publication
Europe	Code of Practice for agriculture of sewage sludge	---
France	Rédaction des études d'impact d'opérations de dragage et d'immersion en milieu estuarien et marin	2014
France	Schéma de Référence des Dragages en Finistère	2008
France	Suivi environnementaux des opérations de dragage et d'immersion	2012
France	Traitement et Valorisation de Sédiments de Dragage Phosphatés en Technique Routière	2013
France	Valorisation Des Déblais Sableux de Dragage Portuaire En France Métropolitaine	2005
France	Valorisation et caractérisation de la durabilité d'un matériau routier et d'un béton à base de sédiments de dragage	2013
Add more		

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International Regulation



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Context

In this section we present the main international regulations relatively to dredged sediments in different countries. These take into account the dredging conditions, the pollutant threshold, dumping conditions or reuse, etc.

The different regulations laws, decree, regulations are classified into a table according to the countries where they can are applied.

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International Regulation / Base de données 



Regulation
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Countries	Regulation name	Year of publication
Canada	Guide d'échantillonnage des sédiments du Saint-Laurent	2002
Canada	Extraction et rejet de sédiments	2014
International Convention.	Valorisation de sédiments marins et fluviaux en technique routière Convention sur la prévention de la pollution des mers résultant de l'immersion de déchets.	1972
Canada	L'évaluation du risque ecotoxicologique du rejet en eau libre des sédiments, en solution à la gestion des projets de dragage en eau douce	2013
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Academic
research



Academic research

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Academic research



Academic
research

Context

In this section we present the several academic research papers relatively to dredged sediments in different countries. This concern different fields (concrete, mortar, geotechnical study, roads, etc)

The documents are classified into a table according to their titles and authors and the link for access is also given.

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Academic research
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Academic
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Title	Author	Link
Prétraitement et traitement des sédiments de dragage en vue d'une valorisation dans le génie civil	M. MIRAoui	https://ori-nuxeo.univ-lille1.fr/nuxeo/site/esupversions/abf20fdf-f4e4-433e-88b8-b5b050c8e307
Valorisation de sédiments traités en techniques routières : contribution à la mise en place d'un protocole d'acceptabilité	C. TRIBOUT	http://thesesups.ups-tlse.fr/1277/1/2010TOU30167.pdf
Solidification et valorisation des sédiments du port de Dunkerque en Travaux Routiers	D. WANG	http://cdoc.ensm-douai.fr/theses/Wang_Dongxing.pdf
Valorisation et caractérisation de la durabilité d'un matériau routier et d'un béton à base de sédiments de dragage	R. ACHOUR	http://www.usherbrooke.ca/genie/fileadmin/sites/genie/documents/Intranet/theses_memoires/Achour_R_20140124.pdf
Recycling steel-manufacturing slag and harbor sediment into construction materials	Yu-Ling Wei, Chang-Yuan Lin, Shao-Hsiang Cheng, H. Paul Wang	http://dx.doi.org/10.1016/j.jhazmat.2013.11.049
Contribution à l'étude des sédiments marins tunisiens : cas des ports de Rades et de Gabes	I. BEL HADJ ALI	https://tel.archives-ouvertes.fr/tel-00731611/document
Mise en place d'une nouvelle approche de formulation d'une matrice cimentaire à base de sable de dragage : application aux bétons de sables et granulats	A. ZRI	https://ori-nuxeo.univ-lille1.fr/nuxeo/site/esupversions/95deef10-73b4-47b7-9662-a6935511805f
Valorisation des sédiments de dragage : Applications dans le BTP, cas du barrage de Fergoug	JP. TROALEN	http://ebureau.univ-reims.fr/slide/files/quotas/SCD/theses/exl-doc/GED00000521.pdf
An Experimental Study of the Physicochemical Properties of a Cement Matrix Containing Dredged Materials	Hongseob Oh, Juwon Lee, N. Banthia, S. Talukdar	https://www.academia.edu/2361109/An_Experimental_Study_of_the_Physicochemical_Properties_of_a_Cement_Matrix_Containing_Dredged_Materials
Valorisation des sédiments de dragage dans les bétons	BELAS N., BELARIBI O., MEBROUKI A., BOUHAMOU N.	http://asmatec.asso-web.com/uploaded/1p-173-belas.pdf
The use of marine sediments as a pavement base material	Vincent Dubois, Nor Edine Abriak, Rachid Zentar, Gérard Ballivy	http://www.sciencedirect.com/science/article/pii/S0956053X0801621

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Title	Author	Link
Mixture design and treatment methods for recycling contaminated sediment	Lei Wang, JuneS.H.Kwok, DanielC.W.Tsang, Chi-SunPoon	http://www.sciencedirect.com/science/article/pii/S030438941400805X
Dredged sediments as a resource for brick production: Possibilities and barriers from a consumers' perspective	Valérie Cappuyns, Valentine Deweirt, Sandra Rousseau	http://www.sciencedirect.com/science/article/pii/S0956053X15000069
Modélisation de la fissuration du béton	L.ADELAIDE et B. RICHARD - (LCPC)	http://or.lcpc.fr/applet/_DEPOT/applet_I2_2_2.pdf
Approche non locale d'un mod ele elasto-plastique endommagable pour le calcul des structures en béton précontraint	Abbas Krayani	https://tel.archives-ouvertes.fr/tel-00334001/document
Modélisation numérique des structures en béton armé	José Ramon Orengo	https://tel.archives-ouvertes.fr/tel-00529365/document
Lois de comportement non linéaires des matériaux	Master COMADIS - Mines Paris	http://www2.mat.ensmp.fr/Pages/sf/teaching/masterecomadis.pdf
Dredged Marine Raw Sediments Geotechnical Characterization for Their Reuse in Road Construction	Walid Maherzi and Farouk Ben Abdelghani	http://engi.org/index.php/ej/article/viewFile/483/347
Effect of chemical and thermal treatment on the geotechnical properties of dredged sediment	M. Dia, J. Ramaroson, A. Nzihou, R. Zentar, N.E. Abriak, G. Depelsenaire, A. Germeau	http://dx.doi.org/10.1016/j.proeng.2014.09.034
Development of controlled low-strength material derived from beneficial reuse of bottom ash and sediment for green construction	Dickson Y.S. Yan, Ivan Y. Tang, Irene M.C. Lo	http://dx.doi.org/10.1016/j.conbuildmat.2014.04.087
Décomposition des matières organiques et stabilisation des métaux lourds dans les sédiments de dragage	Souhila KRIBI	http://theses.insa-lyon.fr/publication/2005ISAL0064/these.pdf

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Academic research
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Title	Author	Link
Modélisation du comportement mécanique des géomatériaux semi- fragiles soumis à des sollicitations mécaniques et à la dégradation chimique	Assef MOHAMAD-HUSSEIN	https://ori-nuxeo.univ-lille1.fr/nuxeo/site/esupversions/003915ab-754a-467b-be3e-533694c14e64
Valorisation of sediments in self-consolidating concrete: Mix-design and microstructure.	E. Rozière, M. Samara, A. Loukili, D. Damidot	http://dx.doi.org/10.1016/j.conbuildmat.2015.01.080
Efficiency of mineral admixtures in mortars: Quantification of the physical and chemical effects of fine admixtures in relation with compressive strength.	Martin Cyr, Philippe Lawrence, Erick Ringot	http://dx.doi.org/10.1016/j.cemconres.2005.07.001
Utilisation de sédiments fins de barrage dans la fabrication de mortiers.	Baptiste ANGER, Isabelle MOULIN, Emmanuel PERIN, François THERY, Daniel LEVACHER	http://www.paralia.fr/jngcgc/13_105_anger.pdf
Mechanical and durability properties of concrete made with dredged marine sand.	J. Limeira, M. Etxeberria, L. Agulló, D. Molina	http://dx.doi.org/10.1016/j.conbuildmat.2011.04.053
Arrêté du 14 juin 2000 relatif aux niveaux de référence à prendre en compte lors d'une analyse de sédiments marins ou estuariens présents en milieu naturel ou portuaire.	République Française	http://www.legifrance.gouv.fr/affichTexte.do;jsessionid=24AF8B1688548FDCE60A93AA5138A913.tpdlia12v_3?dateTexte=20150309&cidTexte=JORFTEXT000000219350&fastPos=1&fastReqId=1154488809&oldAction=rechExpTexteJorf
Cinq ans de valorisation des sédiments contaminés extraits du Port de Dunkerque (France).	Sofie HERMAN, Daphné GLASER, Alain PIETERS, Pascal GREGOIRE, Christophe PRIEZ, Didier DESMOULIN, David GUGLIELMETTI	http://www.paralia.fr/jngcgc/13_109_herman.pdf
Dredged marine sand as construction material.	Jussara LIMEIRA, Luis AGULLÓ, Miren ETXEBERRIA	http://www.paralia.fr/jngcgc/11_95_limeira.pdf
Dredged marine sand in concrete: An experimental section of a harbor pavement.	J. Limeira, L. Agullo, M. Etxeberria	http://www.sciencedirect.com/science/article/pii/S09500618090422X
Mineral admixtures in mortars: Quantification of the physical effects of inert materials on short-term hydration.	Martin Cyr, Philippe Lawrence, Erick Ringot	http://www.sciencedirect.com/science/article/pii/S000888460402339

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Durabilité des mortiers à base de pouzzolane naturelle et de pouzzolane artificielle.	Mokhtaria BENKADDOUR, Fatiha KAZI AOUAL, Abdelaziz SEMCHA	http://www.univ-chlef.dz/RevueNatec/art_01_07.pdf
Valorisation des déchets naturels dans l'élaboration des nouveaux bétons et matériaux de construction.	N. BOUHAMOU, A. MEBROUKI, N. BELAS, S. AGGOUNB, A. BENAÏSSAC, A. KHEIRBEK	http://documents.irevues.inist.fr/handle/2042/46183
Contribution à l'étude numérique du comportement du béton et des structures en béton armé soumises à des sollicitations thermiques et mécaniques couplées : Une approche thermo-élasto-plastique endommageable.	Wahid NECHNECH	http://theses.insa-lyon.fr/publication/2000ISAL0084/these.pdf
La classification des sols	Fred Portet et Olivier Noël, Sylvie Nicaise, Carole Portillo et Mathieu Vermeulen	http://www.ente-aix.fr/documents/135-geotechnique/3_ClassificationSols/co/generation_web_ClassificationSols.html
Characterization of Algerian reservoir sludges for use as active additions in cement: New pozzolans for eco-cement manufacture	O. Rodríguez, L. Kacimi, A. López-Delgado, M. Frías, A. Guerrero	http://dx.doi.org/10.1016/j.conbuildmat.2012.10.016
Valorisation des boues de papeterie comme matières premières secondaires dans les mortiers de ciment Portland : incidence des conditions d'incinération sur la résistance mécanique des mortiers	A. Bouamrane, D. Chahidi ELOuazzani, L. Tiruta Barna, K. Mansouri	http://www.jmaterenvirosci.com/Document/vol5/vol5_N2/74-JMES-513-2013-Bouamrane.pdf
Calcination des Sédiments de Dragage Contaminés. Etudes des Propriétés Physico-chimiques	Jocelyn RAMAROSON	http://theses.insa-lyon.fr/publication/2008ISAL0010/these.pdf
Lightweight aggregates from water reservoir sediment with added sodium hydroxide	Yi-Chong Liao, Chi-Yen Huang, Yen-Ming Chen	http://dx.doi.org/10.1016/j.conbuildmat.2013.04.033
Manufacture and performance of lightweight aggregate from municipal solid waste incinerator fly ash and reservoir sediment for self-consolidating lightweight concrete	Chao-Lung Hwang, Le Anh-Tuan Bui, Kae-Long Lin, Chun-Ting Lo	http://dx.doi.org/10.1016/j.cemconcomp.2012.07.004
Durability of Mortars Made with Dredged Sediments	F. Kazi Aoual - Benslafa	http://dx.doi.org/10.1016/j.proeng.2015.08.423
Reuse of fish pond sediments as fertilizer for fodder grass production in Bangladesh: Potential for sustainable intensification and improved nutrition	Mohammad Mahfujul Haque	http://dx.doi.org/10.1016/j.agee.2015.10.004

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Formulation des béton	Gerard BERNIER	http://www.techniques-ingenieur.fr/
Valorisation de sédiments marins et fluviaux en technique routière	Ngoc Thanh TRAN	http://cdoc.ensm-douai.fr/theses/TRAN%20NGOC%20THANH.pdf
Formulation de bétons courants avec les Grès du Luxembourg et les kieselguhrs usagés des brasseries	Jean-Michel MECHLING	http://www.scd.uhp-nancy.fr/docnum/SCD_T_2000_0067_MECHLING.pdf
Structures granulaires et formulation des bétons	François DE LARRARD	http://media.lcpc.fr/ext/pdf/prod/betonlab/docu_ref01.pdf
Rapid evaluation of pozzolanic activity of natural products by conductivity measurement	M.P. Luxan ; F. Madruga and J. Saavedra	http://www.sciencedirect.com/science/article/pii/S008884689900665
The origin of the pozzolanic activity of calcined clay minerals: A comparison between kaolinite, illite and montmorillonite	Rodrigo Fernandez, Fernando Martirena, Karen L. Scrivener	http://www.sciencedirect.com/science/article/pii/S0008884610002176
Hydration and solidification of hazardous wastes containing heavy metals using modified cementitious materials	Choon-Keun Park	http://dx.doi.org/10.1016/S0008-8846(99)00272-0
Mixture design and treatment methods for recycling contaminated sediment	Lei Wang, June S. H. Kwok, Daniel C. W. Tsang, Chi-Sun Poon	http://dx.doi.org/10.1016/j.jhazmat.2014.09.056
Preparation of non-sintered lightweight aggregates from dredged sediments and modification of their properties	Xiao Peng 1, Yan Zhou 1, Rui Jia, Wenjiang Wang, Yan Wu	http://dx.doi.org/10.1016/j.conbuildmat.2016.11.088
Production of synthetic lightweight aggregate using reservoir sediments for concrete and masonry	Chao-Wei Tang a,†, How-Ji Chen b, Shun-Yuan Wang c, Jack Spaulding	http://dx.doi.org/10.1016/j.cemconcomp.2010.10.008

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Leaching behavior and immobilization of heavy metals in solidified/stabilized products	Rachana Malviya, Rubina Chaudhary	http://dx.doi.org/10.1016/j.jhazmat.2006.01.056
Factors affecting hazardous waste solidification/stabilization: A review	Rachana Malviya, Rubina Chaudhary	http://dx.doi.org/10.1016/j.jhazmat.2006.01.065
Effect of inorganic materials on the solidification of heavy metal sludge	A.K. Minocha, Neeraj Jain, C.L. Verma	http://dx.doi.org/10.1016/S0008-8846(03)00146-7
The influence of interference effects on the mechanical, microstructural and fixation characteristics of cement-solidified hazardous waste forms	Colin D. Hills, Simon J.T. Pollard	http://dx.doi.org/10.1016/S0304-3894(96)01806-7
Heavy metal speciation and leaching behaviors in cement based solidified/stabilized waste materials	X.D. Li, C.S. Poon a, H. Sun, I.M.C. Lo, D.W. Kirk	http://dx.doi.org/10.1016/S0304-3894(00)00360-5
Review: Organic Matter Removal from Soils using Hydrogen Peroxide, Sodium Hypochlorite, and Disodium Peroxodisulfate	R. Mikutta, M. Kleber, K. Kaiser, and R. Jahn	https://www.researchgate.net/publication/228647197_Review_Organic_matter_removal_from_soils_using_hydrogen_peroxide_sodium_hypochlorite_and_disodium_peroxodisulfate
Etude de l'effet retardateur du zinc sur l'hydratation de la pate de ciment portland	G. Arliguie, J.P. Ollivier et J. Grandet	http://dx.doi.org/10.1016/0008-8846(82)90101-6
Filler cement: the effect of the secondary component on the Hydration of portland cement	Walter.A.Gutteridge and John A. Dalziel	http://dx.doi.org/10.1016/0008-8846(82)90101-7
The Influence of Calcium Carbonate Grain Coatings on Contaminant Reactivity in Vadose Zone Sediments	John M. Zachara	http://www.osti.gov/em52/NWS2000_projsum/70121nws.pdf
Optimizing the removal of carbon phases in soils and sediments for sequential chemical extractions by coulometry	Michael K. Schultz, Steven R. Biegalski, Kenneth G. W. Inna, Lee Yu, William C. Burnett, Joylene L. W. Thomasa and Gregory E. Smith	http://dx.doi.org/10.1039/A900534J
Microbial Interactions with Naturally Occurring Hydrophobic Sediments: Influence on Sediment and Associated Contaminant Mobility	I.G. Droppo	http://dx.doi.org/10.1016/j.watres.2016.01.034
Valorisation of sediments in self-consolidating concrete: Mix-design and microstructure	A. Loukili	http://dx.doi.org/10.1016/j.conbuildmat.2015.01.080

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Dredged silt as a raw material for the construction industry	R.J. COLLINS	http://dx.doi.org/10.1016/0304-3967%2880%2990039-6
The use of water treatment plant sludge ash as a mineral addition	A.L.G. Gastaldini, M.F. Hengen, M.C.C. Gastaldini, F.D. do Amaral, M.B. Antolini, T. Coletto	http://dx.doi.org/10.1016/j.conbuildmat.2015.07.038
Mechanical properties and durability of mortar and concrete containing natural pozzolana and limestone blended cements	M. Ghrici, S. Kenai, M. Said-Mansour	http://dx.doi.org/10.1016/j.cemconcomp.2007.04.009
Bioaccumulation of perfluorinated carboxylates and sulfonates and polychlorinated biphenyls in laboratory-cultured <i>Hexagenia</i> spp., <i>Lumbriculus variegatus</i> and <i>Pimephales promelas</i> from field-collected sediments	R.S. Prosser	http://dx.doi.org/10.1016/j.scitotenv.2015.11.062
Sediment accumulation rates and high-resolution stratigraphy of recent fluvial suspension deposits in various fluvial settings, Morava River catchment area, Czech Republic	Jan Sedláček	http://dx.doi.org/10.1016/j.geomorph.2015.11.011
Processes and their explanatory factors governing distribution of organic phosphorous pools in lake sediments	Changwei Lü	http://dx.doi.org/10.1016/j.chemosphere.2015.11.038
Challenges in modelling sediment matters	Hazfullah Aksoy	http://link.springer.com/chapter/10.1007%2F978-3-319-14696-6_5
Sediment properties influencing the bioavailability of uranium to <i>Chironomus dilutus</i> larvae in spiked field sediments	Sarah E Crawford	http://dx.doi.org/10.1016/j.chemosphere.2015.12.123
Secondary environmental impacts of remedial alternatives for sediment contaminated with hydrophobic organic contaminants	Yongju Choi	http://dx.doi.org/10.1016/j.jhazmat.2015.09.069
Daily suspended sediment simulation using machine learning approach	Dheeraj Kumar	http://dx.doi.org/10.1016/j.catena.2015.11.013
Sediment Transport Processes Related to the Operation of a Rapid Hydraulic Structure (Boulder Ramp) in a Mountain Stream Channel: A Polish Carpathian Example	Karol Plesinski	http://link.springer.com/chapter/10.1007%2F978-3-319-14696-6_4
Contamination and risk of heavy metals in soils and sediments from a typical plastic waste recycling area in North China	Zhenwu Tang	http://dx.doi.org/10.1016/j.ecoenv.2015.08.006
Green remediation and recycling of contaminated sediment by waste-incorporated stabilization/solidification	Daniel C.W. Tsang	http://dx.doi.org/10.1016/j.chemosphere.2014.11.071
Fate of engineered nanomaterials in surface water: Factors affecting interactions of Ag and CeO ₂ nanoparticles with (re)suspended sediments	Frederik Van Koetsem	http://dx.doi.org/10.1016/j.ecoleng.2014.07.024

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Aspects of Sediment Transport in Single-Thread and Anabranching River Channels in Flysch Carpathians (A Case Study from the Czech Republic)	Vaclav Skarpich	http://link.springer.com/chapter/10.1007%2F978-3-319-14696-6_3
Heavy metal contamination and ecological risk assessment in the surface sediments of the coastal area surrounding the industrial complex of Gabes city, Gulf of Gabes, SE Tunisia	Radhouan El Zrelli	http://dx.doi.org/10.1016/j.marpolbul.2015.10.047
Sulfide and methane production in sewer sediments: Field survey and model evaluation	Yiwen Liu	http://dx.doi.org/10.1016/j.watres.2015.11.050
Toxic assessment of the leachates of paddy soils and river sediments from e-waste dismantling sites to microalga, <i>Pseudokirchneriella subcapitata</i>	Xiangping Nie	http://dx.doi.org/10.1016/j.ecoenv.2014.10.012
Magnetic properties of sediments in cores from the Mandovi estuary, western India: Inferences on provenance and pollution	V. Purnachandra Rao	https://dx.doi.org/10.1016/j.marpolbul.2015.07.034
Characterization and evolution of the sediments of a Mediterranean coastal lagoon located next to a former mining area	Gregorio García	http://dx.doi.org/10.1016/j.marpolbul.2015.08.042
Microbial Interactions with Naturally Occurring Hydrophobic Sediments: Influence on Sediment and Associated Contaminant Mobility	I.G. Droppo	http://dx.doi.org/10.1016/j.watres.2016.01.034
Dredged sediments as a resource for brick production: Possibilities and barriers from a consumers' perspective	Valérie Cappuyns	http://dx.doi.org/10.1016/j.wasman.2014.12.025
Assessing the distribution and human health risk of organochlorine pesticide residues in sediments from selected rivers	Ozekeke Ogbeide	http://dx.doi.org/10.1016/j.chemosphere.2015.09.108
The effect of particle size on sorption of estrogens, androgens and progestagens in aquatic sediment	Shannon L. Bartelt-Hunt	http://dx.doi.org/10.1016/j.jhazmat.2015.05.046
Reuse of Tunisian marine sediments in paving blocks: factory scale experiment	Imen Said	http://dx.doi.org/10.1016/j.jclepro.2015.04.138
Assessing the distribution and human health risk of organochlorine pesticide residues in sediments from selected rivers	Isioma Tongo	http://dx.doi.org/10.1016/j.chemosphere.2015.09.108
Heavy metals in surface sediments of the intertidal Laizhou Bay, Bohai Sea, China: Distributions, sources and contamination assessment	Xuelu Gao	http://dx.doi.org/10.1016/j.marpolbul.2015.06.035
Analysis of effect of nicotine on microbial community structure in sediment using PCR-DGGE fingerprinting	Ai-dong Ruan	http://dx.doi.org/10.1016/j.wse.2015.11.003

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Development of controlled low-strength material derived from beneficial reuse of bottom ash and sediment for green construction	Irene M.C. Lo	http://dx.doi.org/10.1016/j.conbuildmat.2014.04.087
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Nickel as indicator of fresh organic matter in upwelling sediments	Philipp Böning	http://dx.doi.org/10.1016/j.gca.2015.04.027
Extending the analytical window for water-soluble organic matter in sediments by aqueous Soxhlet extraction	Frauke Schmidt	http://dx.doi.org/10.1016/j.gca.2014.06.009
Assessment of two extraction methods to determine pesticides in soils, sediments and sludges. Application to the Túría River Basin	Ana Masiá	http://dx.doi.org/10.1016/j.chroma.2014.11.079
Ecological evaluation of an experimental beneficial use scheme for dredged sediment disposal in shallow tidal waters	Daphne van der Wal	http://dx.doi.org/10.1016/j.marpolbul.2010.09.005
Effect of microstructure and curing conditions upon the performance of a mortar added with Treated Sediment Aggregates (TSA)	C.A. Davy	http://dx.doi.org/10.1016/j.cemconres.2010.07.003
Characterization and quantification of suspended sediment sources to the Manawatu River, New Zealand	S.S. Vale	http://dx.doi.org/10.1016/j.scitotenv.2015.11.003
Organic matter compositions and loadings in soils and sediments along the Fly River, Papua New Guinea	Miguel A. Goñi	http://dx.doi.org/10.1016/j.gca.2014.05.034
Characteristics of suspended sediment and metal transport during ice breakup, Saint John River, Canada	Spyros Beltaos	http://dx.doi.org/10.1016/j.coldregions.2015.12.009
Characterization of Tunisian marine sediments in Rades and Gabes harbors	Zoubeir LAFHAJ	-
Environmental impact of the use of contaminated sediments as partial replacement of the aggregate used in road construction	Patricio X. Pinto, Souhail R. Al-Abed	http://dx.doi.org/10.1016/j.jhazmat.2011.02.074
Redox effects on the microbial degradation of refractory organic matter in marine sediments	Clare E. Reimers	http://dx.doi.org/10.1016/j.gca.2013.08.004
Effects of waste-glass fineness on sintering of reservoir-sediment aggregates	I.J. Chiou	http://dx.doi.org/10.1016/j.conbuildmat.2012.09.042
An exploratory study on the use of enzyme activities as sediment tracers: biochemical fingerprints?	Kazem NOSRATI	http://dx.doi.org/10.1016/S1001-6279(11)60082-6
A new index for assessing heavy metals contamination in sediments: A case study	Amirhossein Pejman	http://dx.doi.org/10.1016/j.ecolind.2015.06.012
Dissolved organic carbon dynamics in anaerobic sediments of the Santa Monica Basin	Tomoko Komada	http://dx.doi.org/10.1016/j.gca.2013.02.017

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Decreased mobility of heavy metals in Haihe River sediments: The possible role of tide gate	Guanghong Wu	http://dx.doi.org/10.1016/j.gexplo.2015.06.002
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Recycling and burial of organic carbon in sediments of the Porcupine Abyssal Plain, NE Atlantic	Henrik Ståhl	http://dx.doi.org/10.1016/j.dsr.2004.02.007
About a possible valorisation in cementitious materials of polluted sediments after treatment	F. Agostini, F. Skoczylas, Z. Lafhaj	http://dx.doi.org/10.1016/j.cemconcomp.2006.11.012
Beneficial use of dredged sediments in public works	R. Zentar , N.-E. Abriak , V. Dubois, M. Miraoui	http://dx.doi.org/10.1080/09593330902990139
Beneficial use of marine dredged materials as a fine aggregate in ready-mixed concrete: Turkey example	Pembe Ozer-Erdogan, H. Merve Basar, Ibrahim Erden, Leyla Tolun	http://dx.doi.org/10.1016/j.conbuildmat.2016.07.144
Caractérisation et valorisation des sédiments marins dans la fabrication des briques (Characterization and Valorization of marine sediments in the manufacture of bricks)	D. Benyerou, N. Boudjenane, M. Belhadri	http://www.jmaterenviromsci.com/Document/vol7/vol7_N4/146-JMES-1760-Benyerou.pdf
Co-valorisation of Dunkirk dredged sediments and siliceous-aluminous fly ash using lime	Dongxing Wang , Nor Edine Abriak , Rachid Zentar	http://dx.doi.org/10.1080/14680629.2013.779309
Co-valorization of marine sediments and construction & demolition wastes through alkali activation	Kostas Komnitsas	http://dx.doi.org/10.1016/j.jece.2016.11.003
Development of controlled low-strength material derived from beneficial reuse of bottom ash and sediment for green construction	Dickson Y.S. Yan, Ivan Y. Tang, Irene M.C. Lo	http://dx.doi.org/10.1016/j.conbuildmat.2014.04.087
Dredged Marine Sediments Used as Novel Supply of Filling Materials for Road Construction	Dongxing Wang ., Nor Edine Abriak, Rachid Zentar	http://dx.doi.org/10.1080/1064119X.2016.1198945
Speciation of phosphorus in the continental shelf sediments in the Eastern Arabian Sea	Mruganka Kumar Panigrahi	http://dx.doi.org/10.1016/j.csr.2016.01.005
Quality of the surface sediments of the northern coast of the Gulf of Finland, Baltic Sea	Henry Vallius	http://dx.doi.org/10.1016/j.marpolbul.2015.07.070
Control of sulphate and methane distributions in marine sediments by organic matter reactivity	Patrick Meister	http://dx.doi.org/10.1016/j.gca.2012.11.011
The role of carbon from recycled sediments in the origin of ultrapotassic igneous rocks in the Central Mediterranean	Sandro Conticelli	http://dx.doi.org/10.1016/j.lithos.2015.07.002

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Effects of CaO addition on lightweight aggregates produced from water reservoir sediment	Yi-Chong Liao, Chi-Yen Huang	http://dx.doi.org/10.1016/j.conbuildmat.2010.12.034
Environmental evaluation of dredged sediment submitted to a solidification stabilization process using hydraulic binders	Julien Couvidat1 , Mostafa Benzaazoua, Vincent Chatain1, Hassan Bouzahzah	http://dx.doi.org/10.1007/s11356-016-6869-9
Environmental impact and mechanical behavior study of experimental road made with river sediments: recycling of river sediments in road construction	Abdelhafid Kasmi, Nor-Edine Abriak, Mahfoud Benzerzour, Hassane Azrar	http://dx.doi.org/10.1007/s10163-016-0529-5
Evaluating the necessity for thermal treatment in clay-based metal immobilization techniques as an environmentally acceptable sediment remediation process	Dejan Krcmar, Milena Dalmacija & Bozo Dalmacija, Miljana Prica, Jelena Trickovic, Elvira Karlovic	http://dx.doi.org/10.1007/s11368-013-0722-2
Feasibility of the reuse of total and processed contaminated marine sediments as fine aggregates in cemented mortars	Julien Couvidat, Mostafa Benzaazoua, Vincent Chatain , Ahmed Bouamrane , Hassan Bouzahzah	http://dx.doi.org/10.1016/j.conbuildmat.2016.02.186
Feasibility Study of the Use of Concrete Sludge As Alternative Raw Material for Portland Clinker Production	Joris Schoon, Klaartje De Buysser, Isabel Van Driessche, and Nele De Belie	http://ascelibrary.org/doi/abs/10.1061/(ASCE)MT.1943-5533.0001230
Flocculated sediments can reduce the size of sediment basin at construction sites	Jihoon Kang a, *, Scott E. King b, Richard A. McLaughlin	http://dx.doi.org/10.1016/j.jenvman.2015.10.049
Geotechnical properties of cement treated sediment: influence of the organic matter and cement contents	Boubaker Rekik, Mohamed Boutouil & Anne Pantet	http://dx.doi.org/10.3328/IJGE.2009.03.02.205-214
Green remediation and recycling of contaminated sediment by waste-incorporated stabilization/solidification	Lei Wang, Daniel C.W. Tsang 1†, Chi-Sun Poon	http://dx.doi.org/10.1016/j.chemosphere.2014.11.071
Leaching behavior of estuarine sediments and cement-stabilized sediments in upland management environments	Kevin H. Gardner, Christopher J. Tsiatsios , Jeffrey Melton, Thomas P. Seager	http://dx.doi.org/10.1016/j.wasman.2006.09.002
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Dredging coasts



Study coasts



Treatment coasts



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Dredging coasts



Economic
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Context

In this section we present the economical aspect relatively to dredged sediments in different countries.

The documents are classified into a table according to their dredging technique, sediment type and cost.

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Study coasts



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Context

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Treatment costs



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Context

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Treatment method	Country	Cost : €/T.m3
Biological	...	...
Thermal and heat	...	...
Chemical	...	...
Dewatering	...	...
Add more		

Using sediment as a resource

Inventory catalogue



Dumping prices



Economic
aspect

Context

In this section we present the economical aspect relatively to dredged sediments in different countries.

The documents are classified into a table according to their dumping technique, country and cost.

Database



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European Cross-border Cooperation Programme part-financed by the European Regional Development Fund

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Added
More
documents

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Contact

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