

CERTIFICATE

The Technische Überwachungsorganisation (Technical Monitoring Organisation)
TÜV NORD Umweltschutz GmbH & Co. KG entitles the enterprise

WRC World Resources Company GmbH

Industriestrasse 7
D-04808 Wurzen

for the waste management activities

collecting, transporting, storing, treating, recovery and brokering

for the sites and waste codes listed in the annexes to this certificate, to use the test mark of the
TÜV NORD Umweltschutz GmbH & Co. KG and the designation

Qualified Waste Management Company

in accordance with § 56 of the recycling law in conjunction with the Ordinance on
Qualified Waste Management Companies

Audit date: 09th October 2019

This certificate is valid only in connection with the certificate according to § 25 in conjunction with appendix 3
of the Ordinance on Qualified Waste Management Companies of 7th December 2016.

This certificate is valid until 26th March 2021

Certificate registration No.: 119ZEB220

Hamburg, 19th November 2019

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On behalf of Sebastian Hartmann
Head of the Certification Body
for Qualified Waste Management Companies

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Martin Hartzsch
Examining Expert

Appendix 1 to TÜV Nord Certificate no. 119ZEB220

WRC World Resources Company GmbH
Industriestrasse 7
D-04808 Wurzen

Producer number: SL83E0930/7
Disposer number: SL83A0032/8
Transporter number: S29T00020/4
Broker number: SVL000025/7

Facility type: Physico-chemical treatment plant for metal containing wastes including thermal processing	
Certified types of waste for the activities collecting, transporting and brokering	
ASN	Type of waste
all waste numbers	All kinds of waste according to the European Waste Catalogue

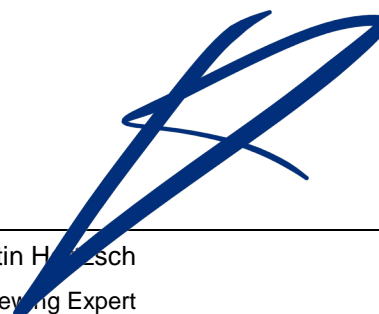
Hanover, 11/19/2019



i.V.

Sebastian Hartmann

Head of Certification Body for
Qualified Waste Management Facilities
pursuant to §56, 57 KrWG (Germany)



Martin H. Esch

Reviewing Expert

Appendix 2 to TÜV Nord Certificate no. 119ZEB220

WRC World Resources Company GmbH
Industriestrasse 7
D-04808 Wurzen

Producer number: SL83E0930/7
Disposer number: SL83A0032/8
Transporter number: S29T00020/4
Broker number: SVL000025/7

Facility type: Physico-chemical treatment plant for metal containing wastes including thermal processing	
Certified types of waste for the activities storage, treatment and recovery	
Waste no.	Type of waste
01 01 01	wastes from mineral metalliferous excavation
01 03 05*	other tailings containing hazardous substances
01 03 06	tailings other than those mentioned in 01 03 04 and 01 03 05
01 03 07*	other wastes containing hazardous substances from physical and chemical processing of metalliferous minerals
01 03 08	dusty and powdery wastes other than those mentioned in 01 03 07
01 03 09	red mud from alumina production other than the wastes mentioned in 01 03 07
01 03 99	wastes not otherwise specified
06 02 01*	calcium hydroxide
06 02 04*	sodium and potassium hydroxide
06 03 13*	solid salts and solutions containing heavy metals
06 03 14	solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13
06 03 15*	metallicoxides containing heavy metals
06 03 16	metallicoxides other than those mentioned in 06 03 15
06 03 99	wastes not otherwise specified
06 04 05*	wastes containing other heavy metals
06 04 99	wastes not otherwise specified
06 05 02*	sludges from on-site effluent treatment containing hazardous substances (see annotation11)
06 05 03	sludges from on-site effluent treatment other than those mentioned in 06 05 02
06 06 03	wastes containing sulphides other than those mentioned in 06 06 02
06 06 99	wastes not otherwise specified
06 09 03*	calcium-based reaction wastes containing or contaminated with hazardous substances
06 09 04	calcium-based reaction wastes other than those mentioned in 06 09 03
06 11 01	calcium-based reaction wastes from titanium dioxide production
06 11 99	wastes not otherwise specified
06 13 02*	spent activated carbon (except 06 07 02) (see annotation 11)
07 01 10*	other filter cakes and spent absorbents
07 01 11*	sludges from on-site effluent treatment containing hazardous substances
07 01 12	sludges from on-site effluent treatment other than those mentioned in 07 01 11
07 02 10*	other filter cakes and spent absorbents
07 02 11*	sludges from on-site effluent treatment containing hazardous substances
07 02 12	sludges from on-site effluent treatment other than those mentioned in 07 02 11

Appendix 2 to TÜV Nord Certificate no. 119ZEB220

Facility type: Physico-chemical treatment plant for metal containing wastes including thermal processing	
Certified types of waste for the activities storage, treatment and recovery	
Waste no.	Type of waste
07 03 10*	other filter cakes and spent absorbents
07 03 11*	sludges from on-site effluent treatment containing hazardous substances
07 03 12	sludges from on-site effluent treatment other than those mentioned in 07 03 11
07 04 10*	other filter cakes and spent absorbents
07 04 11*	sludges from on-site effluent treatment containing hazardous substances
07 04 12	sludges from on-site effluent treatment other than those mentioned in 07 04 11
07 04 13*	solid wastes containing hazardous substances
07 05 10*	other filter cakes and spent absorbents
07 05 11*	sludges from on-site effluent treatment containing hazardous substances
07 05 12	sludges from on-site effluent treatment other than those mentioned in 07 05 11
07 05 13*	solid wastes containing hazardous substances
07 05 14	solid wastes other than those mentioned in 07 05 13
07 07 10*	other filter cakes and spent absorbents
07 07 11*	sludges from on-site effluent treatment containing hazardous substances
07 07 12	sludges from on-site effluent treatment other than those mentioned in 07 07 11
08 01 14	sludges from paint and varnish other than those mentioned in 08 01 13
08 01 18	wastes from paint or varnish removal other than those mentioned in 08 01 17
08 02 01	waste coating powders
09 01 06*	wastes containing silver from on-site treatment of photographic wastes
09 01 07	photographic film and paper containing silver or silver compounds
10 01 04*	oil fly ash and boiler dust (see annotation 1)
10 01 19	wastes from gas cleaning other than those mentioned in 10 01 05, 10 01 07 and 10 01 18
10 01 20*	sludges from on-site effluent treatment containing hazardous substances
10 01 21	sludges from on-site effluent treatment other than those mentioned in 10 01 20
10 01 22*	aqueous sludges from boiler cleansing containing hazardous substances
10 01 23	aqueous sludges from boiler cleansing other than those mentioned in 10 01 22
10 02 01	wastes from the processing of slag
10 02 02	unprocessed slag
10 02 07*	solid wastes from gas treatment containing hazardous substances
10 02 08	solid wastes from gas treatment other than those mentioned in 10 02 07
10 02 10	mill scales
10 02 13*	sludges and filter cakes from gas treatment containing hazardous substances
10 02 14	sludges and filter cakes from gas treatment other than those mentioned in 10 02 13
10 02 15	other sludges and filter cakes
10 02 99	wastes not otherwise specified
10 03 02	anode scraps

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Facility type: Physico-chemical treatment plant for metal containing wastes including thermal processing	
Certified types of waste for the activities storage, treatment and recovery	
Waste no.	Type of waste
10 03 04*	primary production slags
10 03 05	waste alumina
10 03 08*	salt slags from secondary production
10 03 09*	black drosses from secondary production
10 03 16	skimmings other than those mentioned in 10 03 15
10 03 19*	flue-gas dust containing hazardous substances
10 03 20	flue-gas dust other than those mentioned in 10 03 19
10 03 21*	other particulates and dust (including ball-mill dust) containing hazardous substances
10 03 22	other particulates and dust (including ball-mill dust) other than those mentioned in 10 03 21
10 03 23*	solid wastes from gas treatment containing hazardous substances
10 03 24	solid wastes from gas treatment other than those mentioned in 10 03 23
10 03 25*	sludges and filter cakes from gas treatment containing hazardous substances
10 03 26	sludges and filter cakes from gas treatment other than those mentioned in 10 03 25
10 03 29*	wastes from treatment of salt slags and black drosses containing hazardous substances
10 03 30	wastes from treatment of salt slags and black drosses other than those mentioned in 10 03 29
10 03 99	wastes not otherwise specified
10 04 07*	sludges and filter cakes from gas treatment
10 05 01	slags from primary and secondary production
10 05 03*	flue-gas dust
10 05 04	other particulates and dust
10 05 05*	solid waste from gas treatment
10 05 06*	sludges and filter cakes from gas treatment
10 05 11	dross and skimmings other than those mentioned in 10 05 10
10 05 99	wastes not otherwise specified
10 06 01	slags from primary and secondary production
10 06 02	dross and skimmings from primary and secondary production
10 06 03*	flue-gas dust
10 06 04	other particulates and dust
10 06 06*	solid wastes from gas treatment
10 06 07*	sludges and filter cakes from gas treatment
10 06 99	wastes not otherwise specified
10 07 01	slags from primary and secondary production
10 07 02	dross and skimmings from primary and secondary production
10 07 03	solid wastes from gas treatment
10 07 04	other particulates and dust

Appendix 2 to TÜV Nord Certificate no. 119ZEB220

Facility type: Physico-chemical treatment plant for metal containing wastes including thermal processing	
Certified types of waste for the activities storage, treatment and recovery	
Waste no.	Type of waste
10 07 05	sludges and filter cakes from gas treatment
10 07 99	wastes not otherwise specified
10 08 04	particulates and dust
10 08 08*	salt slag from primary and secondary production
10 08 09	other slags
10 08 11	dross and skimmings other than those mentioned in 10 08 10
10 08 14	anode scrap
10 08 15*	flue-gas dust containing hazardous substances
10 08 16	flue-gas dust other than those mentioned in 10 08 15
10 08 17*	sludges and filter cakes from flue-gas treatment containing hazardous substances
10 08 18	sludges and filter cakes from flue-gas treatment other than those mentioned in 10 08 17
10 08 99	wastes not otherwise specified
10 09 03	furnace slag
10 09 09*	flue-gas dust containing hazardous substances
10 09 10	flue-gas dust other than those mentioned in 10 09 09
10 09 11*	other particulates containing hazardous substances
10 09 12	other particulates other than those mentioned in 10 09 11
10 09 99	wastes not otherwise specified
10 10 03	furnace slag
10 10 09*	flue-gas dust containing hazardous substances
10 10 10	flue-gas dust other than those mentioned in 10 10 09
10 10 11*	other particulates containing hazardous substances
10 10 12	other particulates other than those mentioned in 10 10 11
10 10 99	wastes not otherwise specified
10 11 14	glass-polishing and -grinding sludge other than those mentioned in 10 11 13 (see annotation 8)
10 11 15*	solid wastes from flue-gas treatment containing hazardous substances (see annotation 8)
10 11 16	solid wastes from flue-gas treatment other than those mentioned in 10 11 15 (see annotation 8)
10 11 17*	sludges and filter cakes from flue-gas treatment containing hazardous substances (see annotation 8)
10 11 18	sludges and filter cakes from flue-gas treatment other than those mentioned in 10 11 17 (see annotation 8)
10 11 19*	solid wastes from on-site effluent treatment containing hazardous substances (see annotation 8)
10 11 20	solid wastes from on-site effluent treatment other than those mentioned in 10 11 19 (see annotation 8)
10 11 99	wastes not otherwise specified (see annotation 8)
10 12 03	particulates and dust

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Facility type: Physico-chemical treatment plant for metal containing wastes including thermal processing	
Certified types of waste for the activities storage, treatment and recovery	
Waste no.	Type of waste
10 12 05	sludges and filter cakes from gas treatment
10 12 09*	solid wastes from gas treatment containing hazardous substances
10 12 10	solid wastes from gas treatment other than those mentioned in 10 12 09
10 12 11*	wastes from glazing containing heavy metals
10 12 12	wastes from glazing other than those mentioned in 10 12 11
10 12 13	sludge from on-site effluent treatment
10 12 99	wastes not otherwise specified
11 01 05*	pickling acids (see annotation 2)
11 01 06*	acids not otherwise specified (see annotation 2)
11 01 07*	pickling bases (see annotation 2)
11 01 09*	sludges and filter cakes containing hazardous substances
11 01 10	sludges and filter cakes other than those mentioned in 11 01 09
11 01 11*	aqueous rinsing liquids containing hazardous substances (see annotation 3)
11 01 12	aqueous rinsing liquids other than those mentioned in 11 01 11
11 01 15*	eluate and sludges from membrane systems or ion exchange systems containing hazardous substances (see annotation 3)
11 01 16*	saturated or spent ion exchange resins (see annotation 4)
11 01 98*	other wastes containing hazardous substances
11 01 99	wastes not otherwise specified
11 02 02*	sludges from zinc hydrometallurgy (including jarosite, goethite)
11 02 03	wastes from the production of anodes for aqueous electrolytical processes
11 02 05*	wastes from copper hydrometallurgical processes containing hazardous substances
11 02 06	wastes from copper hydrometallurgical processes other than those mentioned in 11 02 05
11 02 07*	other wastes containing hazardous substances
11 02 99	wastes not otherwise specified
11 03 01*	wastes containing cyanide (see annotation 10)
11 03 02*	other wastes
11 05 01	hard zinc
11 05 02	zinc ash
11 05 03*	solid wastes from gas treatment
11 05 04*	spent flux
11 05 99	wastes not otherwise specified
12 01 01	ferrous metal filings and turnings
12 01 02	ferrous metal dust and particles
12 01 03	non-ferrous metal filings and turnings
12 01 04	non-ferrous metal dust and particles

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Facility type: Physico-chemical treatment plant for metal containing wastes including thermal processing	
Certified types of waste for the activities storage, treatment and recovery	
Waste no.	Type of waste
12 01 13	welding wastes
12 01 14*	machining sludges containing hazardous substances
12 01 15	machining sludges other than those mentioned in 12 01 14
12 01 16*	waste blasting material containing hazardous substances
12 01 17	waste blasting material other than those mentioned in 12 01 16
12 01 18*	metal sludge (grinding, honing and lapping sludge) containing oil (see annotation 5)
12 01 21	spent grinding bodies and grinding materials other than those mentioned in 12 01 20
12 01 99	wastes not otherwise specified
15 02 02*	absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by hazardous substances
15 02 03	absorbents, filter materials, wiping cloths and protective clothing other than those mentioned in 15 02 02
16 02 15*	hazardous components removed from discarded equipment
16 02 16	components removed from discarded equipment other than those mentioned in 16 02 15
16 03 03*	inorganic wastes containing hazardous substances
16 03 04	inorganic wastes other than those mentioned in 16 03 03
16 05 07*	discarded inorganic chemicals consisting of or containing hazardous substances
16 06 04	alkaline batteries (except 16 06 03)
16 06 05	other batteries and accumulators
16 06 06*	separately collected electrolyte from batteries and accumulators (see annotation 6)
16 08 01	spent catalysts containing gold, silver, rhenium, rhodium, palladium, iridium or platinum (except 16 08 07)
16 08 02*	spent catalysts containing hazardous transition metals (3) or hazardous transition metal compounds
16 08 03	spent catalysts containing transition metals or transition metal compounds not otherwise specified
16 08 04	spent fluid catalytic cracking catalysts (except 16 07 07) (see annotation 7)
16 08 07*	spent catalysts contaminated with hazardous substances
16 10 01*	aqueous liquid wastes containing hazardous substances (see annotation 9)
16 10 02	aqueous liquid wastes other than those mentioned in 16 10 01 (see annotation 9)
16 10 03*	aqueous concentrates containing hazardous substances (see annotation 9)
16 10 04	aqueous concentrates other than those mentioned in 16 10 03 (see annotation 9)
16 11 03*	other linings and refractories from metallurgical processes containing hazardous substances
16 11 04	other linings and refractories from metallurgical processes other than those mentioned in 16 11 03
19 01 10*	spent activated carbon from flue-gas treatment (see annotation 11)

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Facility type: Physico-chemical treatment plant for metal containing wastes including thermal processing	
Certified types of waste for the activities storage, treatment and recovery	
Waste no.	Type of waste
19 02 05*	sludges from physico/chemical treatment containing hazardous substances (see annotation 11)
19 02 06	sludges from physico/chemical treatment other than those mentioned in 19 02 05
19 02 11*	other wastes containing hazardous substances (see annotation 11)
19 02 99	wastes not otherwise specified
19 08 06*	saturated or spent ion exchange resins (see annotation 3)
19 08 07*	solutions and sludges from regeneration of ion exchangers
19 08 08*	membrane system waste containing heavy metals
19 08 13*	sludges containing hazardous substances from other treatment of industrial waste water (see annotation 11)
19 08 14	sludges from other treatment of industrial waste water other than those mentioned in 19 08 13
19 08 99	wastes not otherwise specified
19 10 01	iron and steel waste
19 10 02	non-ferrous waste
19 10 05*	other fractions containing hazardous substances
19 10 06	other fractions other than those mentioned in 19 10 05
19 12 03	non-ferrous metal
19 12 11*	other wastes (including mixtures of materials) from mechanical treatment of waste containing hazardous substances

Annotations:

- 1 nickeliferous kettle-residues from combustion of nickeliferous oils in power plants
- 2 NE-content corresponding to receiving-conditions, NE-metalliferous solutions
- 3 waste no. 11 02 11*, waste no.11 01 15* - component of input-catalogue; NE-content corresponding to receiving-conditions
- 4 waste no. 11 01 16* - component of input-catalogue, specified by noble metal content
- 5 residues of copper production respectively production of automotive suppliers
de-oiled substances containing bonds of pull- or processing-oils
- 6 paste-like, no aqueous electrolytes, contains nickel and its compounds
- 7 nickeliferous catalysts
- 8 HF-free sludges and wastes
- 9 nickeliferous wastes, analogue to receiving-conditions
- 10 cyanide analogue to receiving-conditions
- 11 also internal mass flux

Appendix 2 to TÜV Nord Certificate no. 119ZEB220

Hanover, 11/19/2019



i.V.

Sebastian Hartmann

Head of Certification Body for
Qualified Waste Management Facilities
pursuant to §56, 57 KrWG (Germany)



Martin Jentsch

Reviewing Expert