



MILIEUTECHNISCH ADVIESBUREAU HEEL BV

St. Antoniusstraat 10
6097 ND Panheel
Postbus 5049
6097 ZG Heel
Telefoon
(0475) 57 32 31
Telefax
(0475) 57 15 09
E-mail: info@mah-bv.nl
Website: www.mah-bv.nl

Waterschap Limburg

Postbus 2207
6040 CC Roermond

uw ref: -

onze ref: 0302WAL/19/R

Panheel, 26 november 2019

Betreft : Aanvullend (water)bodemonderzoek Eckeltsebeek te Bergen
Behandeld door :

Geachte heer ,

Hierbij ontvangt u de resultaten van het aanvullend (water)bodemonderzoek dat is uitgevoerd voor het project 'Gebiedspilot Eckeltsebeek – Water in Balans'. Het onderzoek is uitgevoerd in verband met de uit te voeren graaf- / baggerwerkzaamheden ten behoeve van de verdieping van de bestaande watergang (Eckeltsebeek). Verder wordt plaatselijk het winterbed verlaagd en worden diverse duikers vervangen.

Voorliggend bodemonderzoek is deels uitgevoerd conform de NEN 5740 (landbodem), deels volgens de NEN 5720 (waterbodem) en betreft een aanvulling op eerder uitgevoerd onderzoek (0037WAL/19/R d.d. 2 mei 2019). In verband met het 'Tijdelijk Handelingskader PFAS' van 8 juli 2019 heeft aanvullend onderzoek plaatsgevonden naar het voorkomen van PFAS en GenX.

Doelstelling

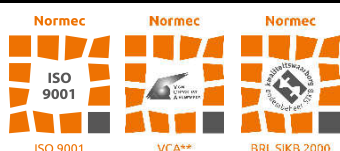
Doel van het (water)bodemonderzoek is het vaststellen of er sprake is van het voorkomen van PFAS en/of GenX ter plaatse van de onderzoekslocatie in verband met het bepalen van de afzetmogelijkheden van de grond en waterbodem.

Waarborg

Het veldwerk is uitgevoerd onder certificaat EC-SIK-20307 "Veldwerk bij milieuhygiënisch bodemonderzoek (vigerende versie), conform protocol 2001 'Plaatsen van handboringen en peilbuizen, maken van boorbeschrijvingen het nemen van grondmonsters en waterpassen' (vigerende versie), conform protocol 2003 'Veldwerk bij milieuhygiënisch waterbodemonderzoek' (vigerende versie).

Aangezien de onderzoekslocatie geen eigendom is van MAH BV of de overige aan deze bedrijven gelieerde ondernemingen binnen de holding Bloem Beheer BV wordt voldaan aan de eisen van onafhankelijkheid uit de BRL 2000.

Dit bodemonderzoek is door MAH BV met de grootste zorg en conform de vigerende richtlijnen uitgevoerd. Desondanks kunnen de onderzoeksresultaten afwijkingen vertonen met de werkelijke situatie aangezien de resultaten een momentopname zijn en onderhevig kunnen zijn aan veranderingen als gevolg van biologische, chemische en/of fysische processen in de bodem.



Vooronderzoek NEN 5717 / NEN 5725

Voor het vooronderzoek wordt verwezen naar het verkennend (water)bodemonderzoek met rapportnummer 0037WAL/19/R d.d. 2 mei 2019 van MAH BV.

Onderzoeksopzet waterbodem (NEN 5720)

Het verkennend waterbodemonderzoek wordt uitgevoerd conform de NEN5720:2017. De watergang wordt onderzocht volgens de strategie 'Lintvormig water, normale onderzoeksinspanning (LN). De maximale diepte van de graafwerkzaamheden bedraagt volgens informatie van de opdrachtgever max. 0,5 m-bovenzijde waterbodem.

Op basis van de strategie LN worden de volgende boringen en analyses uitgevoerd:

- Totale lengte 14.000 meter, breedte variërend.
- Minimaal 31 vakken van 10 boringen tot 0,5 m-waterbodem.
- Monsternamen per bodemlaag van max. 0,5 meter.
- Per bodemlaag van max. 0,5 meter wordt bij gelijke bodemsamenstelling per vak 1 mengmonster samengesteld. Totaal aantal mengmonsters bedraagt derhalve minimaal 31.
- Analyse van de mengmonsters op PFAS en GenX.

Het te verlagen winterbed (oever) wordt onderzocht volgens de strategie 'oevergebied, normale inspanning' (OZ). De maximale diepte van de graafwerkzaamheden bedraagt volgens informatie van de opdrachtgever max. 0,5 m-mv.

Op basis van de strategie OZ worden de volgende boringen en analyses uitgevoerd:

- Oppervlakte 38.379 m² en 61.108 m², diepte max. 0,5 m.
- 27 boringen tot 0,5 m-mv respectievelijk 45 boringen tot 0,5 m-mv.
- Monsternamen per bodemlaag van max. 0,5 meter.
- Per bodemlaag van max. 0,5 meter worden bij gelijke bodemsamenstelling 9 respectievelijk 15 mengmonsters samengesteld van ten hoogste 3 deelmonsters. Totaal aantal mengmonsters bedraagt derhalve minimaal 24.
- Analyse van de mengmonsters op PFAS en GenX.

Onderzoeksopzet duikers (NEN5740)

Het verkennend bodemonderzoek wordt uitgevoerd conform de NEN5740. Op basis van de gegevens uit het vooronderzoek wordt de strategie onverdacht (ONV) gevolgd. Conform deze strategie worden per duiker de onderstaande werkzaamheden uitgevoerd:

- 2 boringen tot 0,5 m-mv;
- 1 boring tot 2,0 m-mv.

Er wordt per duiker 1 mengmonster van de bovengrond en 1 mengmonster van de ondergrond geanalyseerd op een PFAS en GenX. In afwijking van de norm vindt geen grondwateronderzoek plaats aangezien niet tot in het grondwater gegraven gaat worden.

Uitvoering veldwerk

Het veldwerk is door _____, gecertificeerd veldwerker van MAH BV en door _____ van Agel Adviseurs uitgevoerd in de periode 23 oktober tot en met 4 november 2019. Voorafgaand aan de uitvoering van het veldwerk is nog een inspectie uitgevoerd om te verifiëren of de beschikbare informatie uit het vooronderzoek wordt bevestigd. Er zijn geen afwijkingen geconstateerd. Foto's van de locatie zijn opgenomen in bijlage 8.

Het veldwerk voor zowel de land- als waterbodem is uitgevoerd conform onderzoeksopzet. Een situatieschets met de monsternemingspunten is opgenomen in bijlage 2. De boorprofielen zijn opgenomen in bijlage 3. Visueel zijn geen asbestverdachte materialen waargenomen.

Ter plaatse waar de duikers onder de weg doorgaan is in overleg met de opdrachtgever besloten geen boringen te maken in de asfaltverharding maar aan de rand van asfaltverharding.

Laboratoriumonderzoek

De (water)bodemmonsters zijn voor analyse aangeboden bij het laboratorium van Synlab te Rotterdam. Bij het samenstellen van de mengmonsters is rekening gehouden met de samenstelling van de (water)bodemlagen, ligging van de boorpunten en/of de diepte.

Waterbodem

Voor de watergang zijn 31 vakken gemaakt en per vak en per gelijke bodemlaag van 0,5 meter is 1 mengmonster samengesteld uit de vereiste 10 deelmonsters welke zijn geanalyseerd op een PFAS en GenX. In totaal zijn 32 mengmonsters samengesteld en geanalyseerd (1 extra in verband met wisselende bodemopbouw).

Voor de deellocatie oevers zijn per bodemlaag van maximaal 0,5 meter, in totaal 27 mengmonsters samengesteld die geanalyseerd zijn op PFAS en GenX. (3 meer in verband met wisselende bodemopbouw). Alle mengmonsters bestaan uit maximaal 3 deelmonsters van gelijke bodemsamenstelling.

Landbodem NEN5740

Conform onderzoeksopzet zijn per duiker 3 boringen gezet. Afhankelijk van de bodemsamenstelling zijn per duiker minimaal 1 mengmonster van de bovengrond en 1 mengmonster van de ondergrond samengesteld en geanalyseerd op PFAS en GenX.

Analyseresultaten waterbodem

De analyseresultaten van de waterbodem zijn getoetst aan de normen zoals genoemd in het Tijdelijk Handelingskader PFAS van 8 juli 2019. In tabellen 1 en 2 zijn de toepassingsnormen weergegeven.

Tabel 1 : Toepassingsnormen voor het toepassen van grond en baggerspecie (in µg/kg d.s.)

Categorie	Toepassingssituatie	Toepassingsnorm
Op de landbodem		
4.1	Grond en baggerspecie toepassen boven grondwaterniveau ⁽¹⁾	Afhankelijk van de bodemfunctieklaas, zie tabel 4 Behoudens voor bodemfunctieklaas landbouw/natuur: PFOS = 3 PFOA = 7 GenX = 3 andere PFAS = 3
4.2	Baggerspecie toepassen boven grondwaterniveau ⁽¹⁾ als bedoeld in art. 35, onder f (verspreiden op de kant)	PFOS = 3 PFOA = 7 GenX = 3 andere PFAS = 3
4.3	Grond en baggerspecie grootschalig toepassen boven grondwaterniveau ⁽¹⁾	PFOS = 3 PFOA = 7, GenX = 3 andere PFAS = 3
4.4	Grond en baggerspecie toepassen boven grondwaterniveau ⁽¹⁾ in grondwaterbeschermingsgebieden	Bepalingsgrens = 0,1(3)
4.5	Grond en baggerspecie toepassen onder grondwaterniveau ⁽²⁾ , met inbegrip van grootschalig toepassen	Bepalingsgrens = 0,1

Vervolg Tabel 1 : Toepassingsnormen voor het toepassen van grond en baggerspecie (in µg/kg d.s.)

In oppervlaktewater		
4.6	Grond toepassen	Bepalingsgrens = 0,1
4.7	Baggerspecie toepassen - benedenstrooms in hetzelfde oppervlaktewaterlichaam, met inbegrip van grootschalig toepassen	Geen toets aan kwaliteit, wel meten en toetsen op uitschieters
4.8	Baggerspecie toepassen bovenstrooms in hetzelfde oppervlaktewaterlichaam of in een ander oppervlaktewaterlichaam, met inbegrip van grootschalig toepassen	Bepalingsgrens = 0,1 ⁽⁴⁾
4.9	Grond en baggerspecie grootschalig toepassen in diepe plassen	Bepalingsgrens = 0,1 ⁽⁵⁾

(1) Voor gebieden met een hoge grondwaterstand geldt in plaats van 'boven grondwatervniveau': tot ten hoogste 1 meter onder het maaiveld.

(2) Voor gebieden met een hoge grondwaterstand geldt in plaats van 'onder grondwatervniveau': op een diepte van 1 meter en meer onder het maaiveld.

(3) Het bevoegd gezag kan voor het toepassen van gebiedseigen grond en baggerspecie uit het desbetreffende beheergebied een gebiedspecifieke afweging maken. Hierop wordt ingegaan in paragraaf 5.

(4) Bij het toepassen van baggerspecie bovenstrooms in dezelfde watergang kan gebiedspecifiek afgeweken worden van de bepalingsgrens bij toepassing van PFAS-houdende baggerspecie. PFAS-houdende baggerspecie mag toch worden toegepast als door metingen is aangetoond dat het PFAS-gehalte in de toe te passen baggerspecie lager is dan de achtergrondwaarde op de toepassingslocatie. Hierop wordt ingegaan in paragraaf 5.

(5) Bij het toepassen van baggerspecie in diepe plassen kan gebiedspecifiek afgeweken worden van de bepalingsgrens bij toepassing van PFAS-houdende baggerspecie. Baggerspecie mag toch worden toegepast als er een locatie-specifieke afweging gemaakt is waarbij aangetoond is dat er minimale uitwisseling is met het grondwater (de diepe plas moet in ieder geval geohydrologisch geïsoleerd zijn). Verder kan er ook een uitzondering gemaakt worden voor baggerspecie uit de directe omgeving ("het eigen beheersgebied"). Hierop wordt ingegaan in paragraaf 5.

Tabel 2 : Toepassingsnormen voor het toepassen van grond en baggerspecie op de landbodem boven grondwatervniveau⁽¹⁾ (in µg/kg d.s.) – categorie 4.1 uit tabel 1⁽²⁾

Functieklasse in de zin van het Besluit Bodemkwaliteit	PFOS	PFOA	GenX	Overige PFAS
landbouw/natuur	0,1	0,1	0,1	0,1
landbouw/natuur, bij hogere achtergrondwaarde dan 0,1	de gemeten achtergrondwaarde, ten hoogste 3,0	de gemeten achtergrondwaarde, ten hoogste 7,0	de gemeten achtergrondwaarde, ten hoogste 3,0	de gemeten achtergrondwaarde, ten hoogste 3,0
wonen	3,0	7,0	3,0	3,0
industrie	3,0	7,0	3,0	3,0

(1) Voor gebieden met een hoge grondwaterstand geldt in plaats van 'boven grondwatervniveau': tot ten hoogste 1 meter onder het maaiveld.

(2) Op de waarden uit deze tabel hoeft (tot 10%) geen bodemtypecorrectie toegepast te worden (dit is overeenkomstig de systematiek zoals die op dit moment al voor PAK geldt).

De laboratoriumcertificaten zijn opgenomen in bijlage 4. De toetsingsresultaten zijn vermeld in tabel 3.

Tabel 3: Samenvatting analyseresultaten

Meng-monster	Samenstelling analyse(meng)monster	Toetsing Tijdelijk handelingskader	Globale samenstelling
	Boornummer(s) en bodemtraject in cm-wbo		
Watergang			
MM 1	W01 (60-110) W02 (50-100) W03 (70-120) W04 (60-110) W05 (50-100) W06 (60-110) W07 (70-120) W08 (100-150) W09 (100-150) W10 (80-130)	< d	zand
MM 2	W11 (100-150) W12 (80-130) W13 (80-130) W14 (100-150) W15 (90-140) W16 (100-150) W17 (100-150) W18 (70-120) W19 (100-150) W20 (90-140)	PFOS (0,14) < 3	zand

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Vervolg Tabel 3: Samenvatting analyseresultaten

Meng-monster	Samenstelling analyse(meng)monster	Toetsing Tijdelijk handelingskader	Globale samenstelling
	Boornummer(s) en bodemtraject in cm-wbo		
MM 3	W21 (80-130) W22 (70-120) W23 (80-130) W24 (100-150) W25 (100-150) W26 (100-150) W27 (100-150) W28 (80-130) W29 (100-150) W30 (100-150)	PFOS (0,16) < 3	zand
MM 4	W31 (100-150) W32 (90-140) W33 (80-130) W34 (100-150) W35 (80-130) W36 (100-150) W37 (80-130) W38 (90-140) W39 (80-130) W40 (100-150)	< d	zand
MM 5	W41 (100-150) W42 (100-150) W43 (100-150) W44 (100-150) W45 (80-130) W46 (100-150) W47 (80-130) W48 (90-140) W49 (80-130) W50 (100-150)	< d	zand
MM 6	W51 (70-120) W52 (80-130) W53 (80-130) W54 (100-150) W55 (80-130) W56 (70-120) W57 (80-130) W58 ((90-140) W59 (80-130) W60 (80-130)	PFOS (0,16) < 3, N-EtFOSAA (0,14) < 3	zand
MM 7	W61 (50-100) W62 (50-100) W63 (50-100) W64 (50-100) W65 (50-100) W66 (50-100) W67 (70-120) W68 (50-100) W69 (60-110) W70 (50-100)	< d	zand
MM 8	W231 (70-120) W232 (80-130) W233 (80-130) W234 (70-120) W235 (70-120) W236 (80-130) W237 (90-120) W238 (70-120) W239 (60-110) W240 (70-120)	< d	zand
MM 9	W241 (140-190) W242 (120-170) W243 (150-200) W244 (130-180) W245 (100-150) W246 (130-180) W247 (150-200) W248 (130-180) W249 (120-170) W250 (120-170)	< d	zand
MM 10	W71 (100-150) W72 (100-150) W73 (100-150) W74 (100-150) W75 (100-150) W77 (100-150) W79 (100-150) W79-1 (100-150) W79-2 (100-150) W79-3 (100-150)	< d	slib
MM 11	W76 (100-150) W78 (100-150) W80 (100-150) W80-1 (100-150) W80-2 (100-150) W80-3 (100-150) W80-4 (100-150) W80-5 (100-150) W80-6 (100-150) W80-7 (100-150)	< d	zand
MM 12	W81 (100-150) W82 (100-150) W83 (100-150) W84 (120-170) W85 (80-130) W86 (80-130) W87 (90-140) W88 (100-150) W89 (100-150) W90 (120-170)	< d	zand
MM 13	W91 (80-130) W92 (50-100) W93 (50-100) W94 (70-120) W95 (50-100) W96 (40-90) W97 (40-90) W98 (40-90) W99 (50-100) W100 (40-90)	< d	zand
MM 14	W101 (40-90) W102 (50-100) W103 (30-60) W104 (30-50) W105 (30-50) W106 (30-50) W107 (30-50) W108 (30-50) W109 (30-50) W110 (30-50)	< d	zand
MM 15	W111 (30-50) W112 (30-50) W113 (20-50) W114 (30-50) W115 (30-50) W116 (30-50) W117 (30-50) W118 (30-50) W119 (30-50) W120 (30-50)	< d	zand
MM 16	W211 (80-130) W212 (60-110) W213 (70-120) W214 (80-130) W215 (70-120) W216 (80-130) W217 (80-130) W218 (100-150) W219 (80-130) W220 (90-140)	< d	zand
MM 17	W221 (70-120) W222 (70-120) W223 (80-130) W224 (80-130) W225 (70-120) W226 (50-100) W227 (50-100) W228 (60-110) W229 (50-100) W230 (70-120)	< d	zand
MM 18	W121 (50-100) W122 (50-100) W123 (50-100) W124 (50-100) W125 (50-100) W126 (50-100) W127 (50-100) W128 (50-100) W129 (40-90) W130 (50-100)	< d	zand
MM 19	W131 (40-90) W132 (50-100) W133 (40-90) W134 (40-90) W135 (50-100) W136 (40-90) W137 (50-100) W138 (50-100) W139 (50-100) W140 (40-90)	< d	zand
MM 20	W141 (50-100) W142 (50-100) W143 (50-100) W144 (50-100) W145 (50-100) W146 (50-100) W147 (50-100) W148 (50-100) W149 (50-100) W150 (50-100)	< d	zand
MM 21	W151 (50-100) W152 (50-100) W153 (50-100) W154 (50-100) W155 (50-100) W156 (50-100) W157 (50-100) W158 (50-100) W159 (50-100) W160 (50-100)	< d	zand

d detectielimiet



Vervolg Tabel 3: Samenvatting analyseresultaten

Meng-monster	Samenstelling analyse(meng)monster	Toetsing Tijdelijk handelingskader	Globale samen- stelling
	Boornummer(s) en bodemtraject in cm-wbo		
MM 22	W161 (50-100) W162 (50-100) W163 (50-100) W164 (50-100) W165 (50-100) W166 (50-100) W167 (50-100) W168 (50-100) W169 (50-100) W170 (50-100)	PFOS (0,19) < 3	zand
MM 23	W171 (50-100) W172 (50-100) W173 (50-100) W174 (50-100) W175 (50-100) W176 (50-100) W177 (30-80) W178 (40-90) W179 (40-90) W180 (40-90)	< d	zand
MM 24	W181 (30-80) W182 (40-90) W183 (40-90) W184 (40-90) W185 (30-80) W186 (50-100) W187 (40-90) W188 (50-100) W189 (40-90) W190 (50-100)	< d	slib
MM 25	W191 (20-70) W192 (30-80) W193 (30-80) W194 (20-70) W195 (30-80) W196 (0-50) W197 (0-50) W198 (10-60) W199 (20-70) W200 (20-70)	< d	zand
MM 26	W201 (20-70) W202 (20-70) W203 (20-70) W204 (20-70) W205 (20-70) W206 (20-70) W207 (20-70) W208 (20-70) W209 (20-70) W210 (20-70)	< d	zand
MM 27	W261 (100-150) W262 (100-150) W263 (80-130) W264 (80-130) W265 (80-130) W266 (100-150) W267 (80-130) W268 (100-150) W269 (80-130) W270 (100-150)	< d	zand
MM 28	W251 (50-100) W252 (50-100) W253 (50-100) W254 (50-100) W255 (50-100) W256 (50-100) W257 (50-100) W258 (50-100) W259 (50-100) W260 (50-100)	< d	zand
MM 29	W271 (100-150) W272 (80-130) W273 (70-120) W274 (80-130) W275 (100-150) W276 (100-150) W277 (80-130) W278 (70-120) W279 (90-140) W280 (100-150)	< d	zand
MM 30	W281 (120-170) W282 (100-150) W283 (120-170) W284 (100-150) W285 (130-180) W286 (120-170) W287 (100-150) W288 (120-170) W289 (100-150) W290 (10-170)	< d	zand
MM 31	W291 (100-150) W292 (100-150) W293 (120-170) W294 (130-180) W295 (100-150) W296 (100-150) W297 (150-200) W298 (120-170) W299 (100-150) W300 (120-170)	< d	zand
MM 32	W301 (100-150) W302 (80-130) W303 (100-150) W304 (80-130) W305 (120-170) W306 (100-150) W307 (80-130) W308 (70-120) W309 (70-120) W310 (80-130)	< d	zand
Overgebied (verlagen winterbed)			
MM O1	01 (0-50) 05 (0-50) 06 (0-50)	PFBA (0,17) < 3, PFPeA (0,20) < 3, PFHxA (0,23) < 3, PFHpA (0,24) < 3, PFOA (0,49) < 7, PFOS (0,11) < 3	zand
MM O2	02 (0-50) 03 (0-50) 04 (0-50)	PFBA (1,6) < 3, PFPeA (3,2) > 3 , PFHxA (2,6) < 3, PFHpA (3,1) > 3 , PFOA (7,2) > 7 , PFNA (3,2) > 3 , PFDA (1,8) < 3, PFUnDA (0,74) < 3, PFDoDA (0,86) < 3, PFTeDA (0,12) < 3, PFOS (2,0) < 3, 8:2 FTS (0,26) < 3 10:2 FTS (1,2) < 3	leem

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Vervolg Tabel 3: Samenvatting analyseresultaten

Meng-monster	Samenstelling analyse(meng)monster		Toetsing Tijdelijk handelingskader	Globale samenstelling
	Boornummer(s) en bodemtraject in cm-wbo			
MM O3	07 (0-50) 08 (0-50) 09 (0-50)		PFBA (0,58) < 3, PFPeA (1,6) < 3, PFHxA (1,1) < 3, PFHpA (1,2) < 3, PFOA (3,1) < 7, PFNA (1,9) < 3, PFDA (0,73) < 3, PFUnDA (0,23) < 3, PFDODA (0,18) < 3, PFOS (1,1) < 3, 10:2 FTS (0,14) < 3	leem
MM O4	010 (0-50) 011 (0-50) 016 (0-50)		PFBA (0,7) < 3, PFPeA (1,5) < 3, PFHxA (1,2) < 3, PFHpA (1,4) < 3, PFOA (3,1) < 7, PFNA (1,4) < 3, PFDA (1,1) < 3, PFUnDA (0,31) < 3, PFDODA (0,30) < 3, PFOS (0,96) < 3, 8:2 FTS (0,26) < 3 10:2 FTS (0,60) < 3	leem
MM O5	012 (0-50) 013 (0-50) 014 (0-50)		<d	zand
MM O6	015 (0-50) 017 (0-50) 023 (0-50)		PFBA (0,18) < 3, PFPeA (0,26) < 3, PFHxA (0,24) < 3, PFHpA (0,28) < 3, PFOA (0,59) < 7, PFNA (0,32) < 3, PFDA (0,11) < 3, PFOS (0,16) < 3	zand
MM O7	018 (0-50) 019 (0-50) 020 (0-50)		PFBA (0,12) < 3, PFPeA (0,18) < 3, PFHxA (0,18) < 3, PFHpA (0,23) < 3, PFOA (0,41) < 7, PFNA (0,25) < 3, PFDA (0,23) < 3, PFUnDA (0,20) < 3, PFDODA (0,17) < 3, PFOS (0,30) < 3, 10:2 FTS (0,19) < 3	leem
MM O8	021 (0-50) 022 (0-50) 025 (0-50)		PFBA (0,33) < 3, PFPeA (0,45) < 3, PFHxA (0,40) < 3, PFHpA (0,46) < 3, PFOA (1,4) < 7, PFNA (0,87) < 3, PFDA (0,52) < 3, PFUnDA (0,38) < 3, PFDODA (0,48) < 3, PFOS (0,63) < 3, 8:2 FTS (0,12) < 3 10:2 FTS (0,53) < 3	leem

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Vervolg Tabel 3: Samenvatting analyseresultaten

Meng-monster	Samenstelling analyse(meng)monster	Toetsing Tijdelijk handelingskader	Globale samenstelling
	Boornummer(s) en bodemtraject in cm-wbo		
MM O9	024 (0-50) 027 (0-50) 028 (0-50)	PFBA (0,11) < 3, PFPeA (0,10) < 3, PFHxA (0,13) < 3, PFHpA (0,16) < 3, PFOA (0,42) < 7, PFNA (0,11) < 3, PFOS (0,10) < 3	zand
MM O10	026 (0-50) 068 (0-50)	PFBA (0,18) < 3, PFPeA (0,26) < 3, PFHxA (0,18) < 3, PFHpA (0,22) < 3, PFOA (0,86) < 7, PFNA (0,74) < 3, PFDA (0,33) < 3, PFUnDA (0,22) < 3, PFDoDA (0,15) < 3, PFOS (0,49) < 3, 10:2 FTS (0,12) < 3	leem
MM O11	029 (0-50) 030 (0-50) 031 (0-50)	< d	zand
MM O12	032 (0-50) 033 (0-50) 034 (0-50)	< d	zand
MM O13	066 (0-50) 067 (0-50) 069 (0-50)	< d	zand
MM O14	070 (0-50) 071 (0-50) 072 (0-50)	< d	zand
MM O15	O35 (0-50) O43 (0-50)	PFOA (0,50) < 7, PFOS (0,37) < 3	leem
MM O16	O36 (0-50) O37 (0-50) O38 (0-50)	PFBA (0,17) < 3, PFOA (0,34) < 7, PFOS (0,27) < 3	veen
MM O17	O39 (0-50) O40 (0-50) O41 (0-50)	PFBA (0,14) < 3, PFOA (0,35) < 7, PFBS (0,12) < 3, PFOS (0,12) < 3	veen
MM O18	O42 (0-50)	PFOS (0,28) < 3	veen
MM O19	O44 (0-50) O45 (0-50)	PFOA (0,27) < 7, PFOS (0,14) < 3	klei
MM O20	O46 (0-50) O47 (0-50) O48 (0-50)	PFOA (0,12) < 7	zand
MM O21	O49 (0-50) O50 (0-50)	PFOA (0,11) < 7	zand
MM O22	O51 (0-50) O53 (0-50) O54 (0-50)	PFOA (0,15) < 7 PFOS (0,12) < 3	klei
MM O23	O52 (0-50) O65 (0-50)	< d	zand
MM O24	O55 (0-50) O59 (0-50)	< d	leem
MM O25	O56 (0-50) O57 (0-50) O58 (0-50)	PFOA (0,18) < 7, PFOS (0,13) < 3	klei
MM O26	O60 (0-50) O61 (0-50) O62 (0-50)	PFBA (0,40) < 3, PFHxA (0,15) < 3, PFHpA (0,15) < 3, PFOA (1,4) < 7, PFBS (0,19) < 3, PFOS (0,77) < 3	veen
MM O27	O63 (0-50) O64 (0-50)	PFBA (0,18) < 3 PFOA (0,48) < 7	veen

d detectielimiet

Analyseresultaten landbodem (duikers)

De analyseresultaten van de landbodem zijn getoetst aan de normen zoals genoemd in het Tijdelijk Handelingskader PFAS van 8 juli 2019. In tabellen 1 en 2 zijn de toepassingsnormen weergegeven.

De laboratoriumcertificaten zijn opgenomen in bijlage 4. De aangetoonde verontreinigingen zijn in tabel 4 samengevat.

Tabel 4: Analyseresultaten

Analyse-nummer	Samenstelling analyse(meng)monster	Toetsing Tijdelijk handelingskader (µg/kg ds)
	Boornummer(s) en bodemtraject (m-mv)	
MM D1	1-1 (0-50) 1-2 (0-50) 1-3 (0-50)	PFOS (0,14) < 3
MM D2	1-3 (50-100)	< d
MM D3	2-1 (0-50) 2-2 (0-50) 2-3 (0-50)	PFOA (0,15) < 7, PFOS (0,21) < 3
MM D4	2-3 (50-100)	< d
MM D5	3-1 (0-50) 3-2 (0-50) 3-3 (0-50)	PFOS (0,27) < 3
MM D6	3-3 (50-100)	PFOA (0,14) < 7
MM D7	4-1 (0-50) 4-2 (0-50) 4-3 (0-50)	PFOS (0,35) < 3
MM D8	4-3 (50-100)	PFOS (0,20) < 3
MM D9	5-1 (0-50) 5-2 (0-50) 5-3 (0-50)	PFOS (0,21) < 3
MM D10	5-3 (50-100)	PFBA (0,12) < 3, PFOA (0,44) < 7
MM D11	6-1 (0-50) 6-2 (0-50) 6-3 (0-50)	PFOA (0,44) < 7, PFOS (2,0) < 3
MM D12	6-3 (50-100)	PFOA (0,42) < 7, PFOS (1,4) < 3
MM D13	7-1 (0-50) 7-2 (0-50) 7-3 (0-50)	PFOA (0,18) < 7, PFOS (0,36) < 3
MM D14	7-3 (50-100)	PFOA (0,10) < 7
MM D15	8-1 (0-50) 8-2 (0-50)	PFOS (0,33) < 3
MM D16	8-3 (50-100)	< d

d detectielimiet

Conclusie

Op basis van onderhavig (water)bodemonderzoek wordt het volgende geconcludeerd:

- in de waterbodem zijn over het algemeen geen gehalten aan PFAS of GenX aangetoond boven de bepalingsgrens, met uitzondering van MM2, MM3, MM6 en MM22. In deze mengmonsters zijn gehalten aangetoond boven de bepalingsgrens maar beneden de toepassingsnorm voor landbodem;
- in het oevergebied zijn in nagenoeg alle mengmonsters gehalten aan PFAS aangetoond boven de bepalingsgrens. In mengmonster O2 overschrijden enkele parameters de toepassingsnorm voor landbodem, waaronder PFOA;
- ter plaatse van de duikers zijn in nagenoeg alle mengmonsters van zowel de boven- als de ondergrond gehalten aan PFAS aangetoond boven de bepalingsgrens maar beneden de toepassingsnorm voor landbodem;
- op basis van de aangetoonde gehalten aan PFAS zijn geen aanvullende arbotechnische maatregelen noodzakelijk;
- aangezien er verhoogde gehalten aan PFAS zijn gemeten dient er bij de afzet van de grond rekening te worden gehouden met beperkte afzetmogelijkheden. Toepassing in een grootschalige bodemtoepassing onder grondwaterniveau is op basis van de huidige regelgeving bijvoorbeeld niet toegestaan. De verwachting is dat de regelgeving (o.a. de normering) op korte termijn aangepast gaat worden.



Wij vertrouwen erop u hiermee voldoende te hebben geïnformeerd. Heeft u naar aanleiding van deze rapportage nog vragen c.q. opmerkingen dan kunt u met ondergetekende contact opnemen.

Met vriendelijke groet
Milieutechnisch Adviesbureau Heel BV

Senior Projectleider

Bijlagen

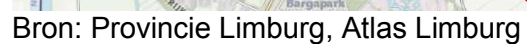
1. Topografische kaart
2. Tekening met boorpunten
3. Boorprofielen
4. Laboratoriumcertificaten
5. Foto's locatie



BIJLAGEN

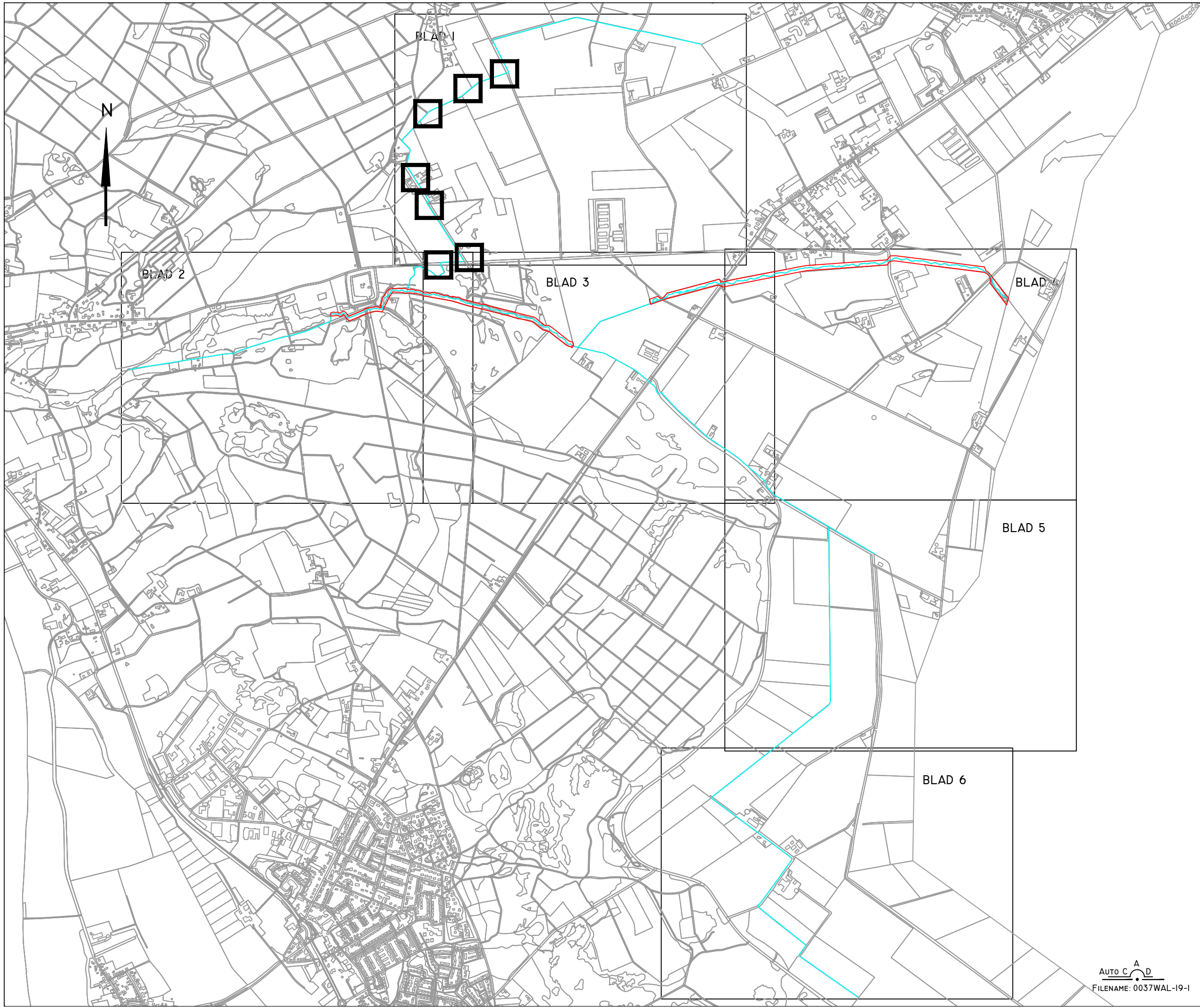


BIJLAGE 1
TOPOGRAFISCHE KAART





BIJLAGE 2
TEKENING MET BOORPUNTEN



BIJLAGE 2-1
SITUATIETEKENING WATERBODEM-
ONDERZOEK

LEGENDA

- WATERGANG
- OEVERGEBIED
- LOCATIE DUIKER


AAN DEZE TEKENING KUNNEN GEEN RECHTEN WORDEN ONTLEEND

PROJECT:
ECKELTSEBEK TE BERGEN

OPDRACHTGEVER:
WATERSCHAP LIMBURG

PROJECTLEIDER :
TEKENAAR :
PROJECTNR. : 0037WAL/19
DATUM : 07-02-2019
VERSIE : 1.0

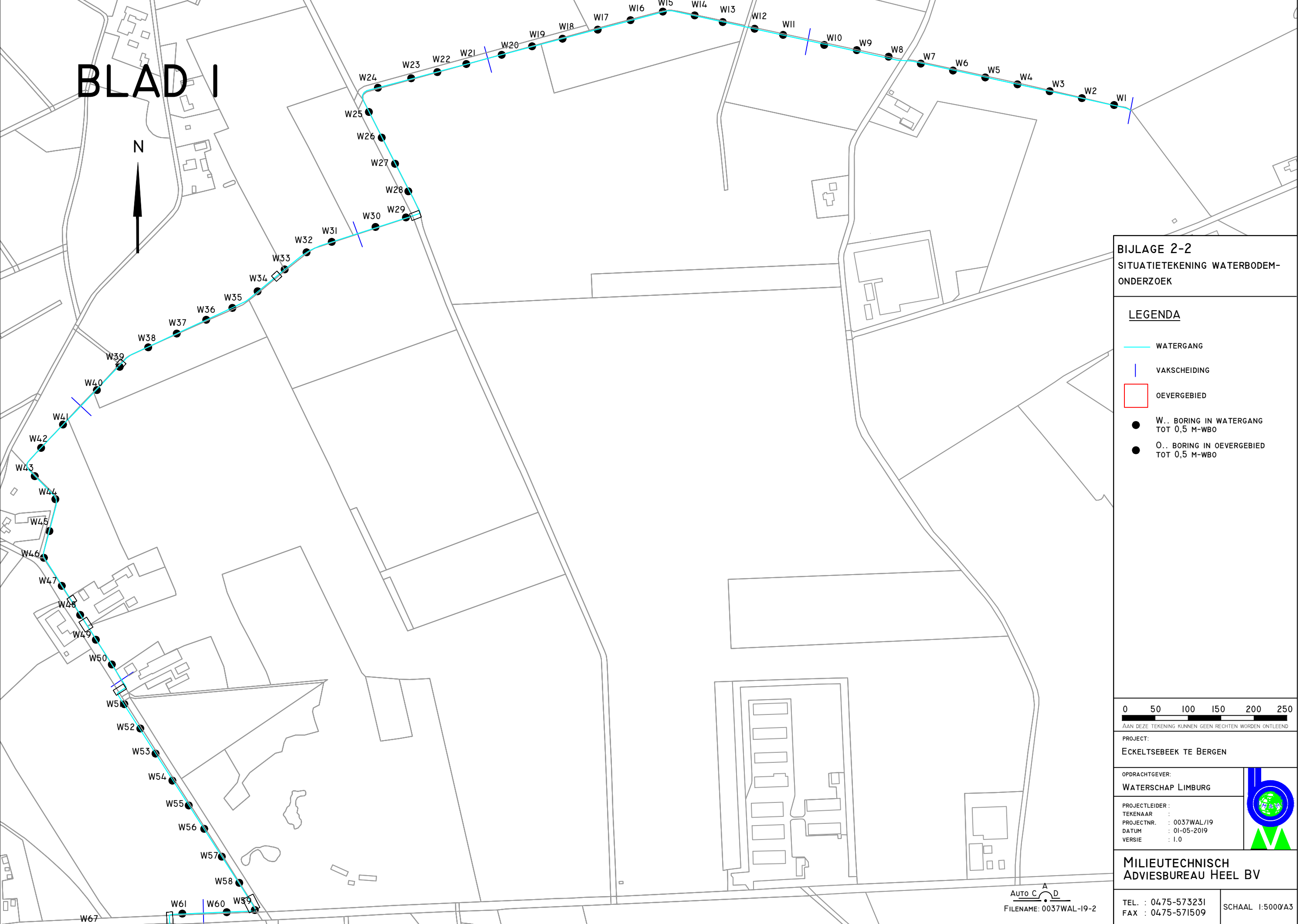


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SCHAAL 1:NVT /A3

AUTO C A D
FILENAME: 0037WAL-19-1



BIJLAGE 2-2
**SITUATIETEKENING WATERBODEM-
ONDERZOEK**

LEGENDA

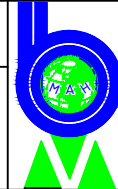
- WATERGANG
- VAKSCHEIDING
- OEVERGEBIED
- W.. BORING IN WATERGANG
TOT 0,5 M-WBO
- O.. BORING IN OEVERGEBIED
TOT 0,5 M-WBO



PROJECT:
ECKELTSEBEEK TE BERGEN

OPDRACHTGEVER:
WATERSCHAP LIMBURG

PROJECTLEIDER :
TEKENAAR :
PROJECTNR. : 0037WAL/19
DATUM : 01-05-2019
VERSIE : 1.0



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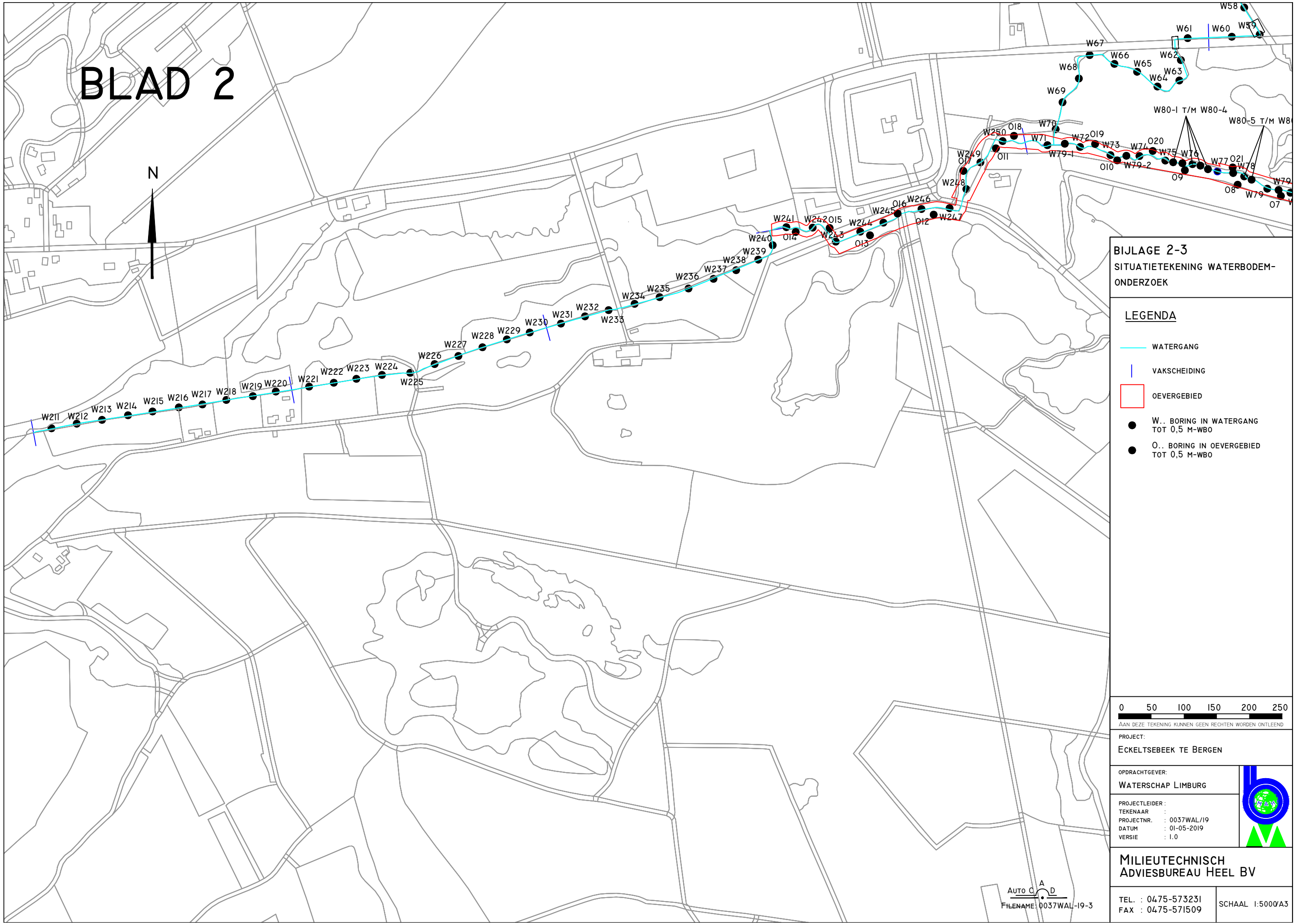
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SCHAAL 1:5000/A3

AUTO C A D
FILENAME: 0037WAL-19-2

BLAD 2

N



BIJLAGE 2-3 SITUATIETEKENING WATERBODEM- ONDERZOEK

LEGENDA

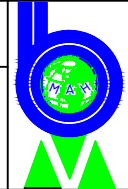
- WATERGANG
- VAKSCHIEDING
- OEVERGEBIED
- W.. BORING IN WATERGANG
TOT 0,5 M-WBO
- O.. BORING IN OEVERGEBIED
TOT 0,5 M-WBO



PROJECT:
ECKELTSEBEEK TE BERGEN

OPDRACHTGEVER:
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PROJECTLEIDER :
TEKENAAR :
PROJECTNR. : 0037WAL/19
DATUM : 01-05-2019
VERSIE : 1.0

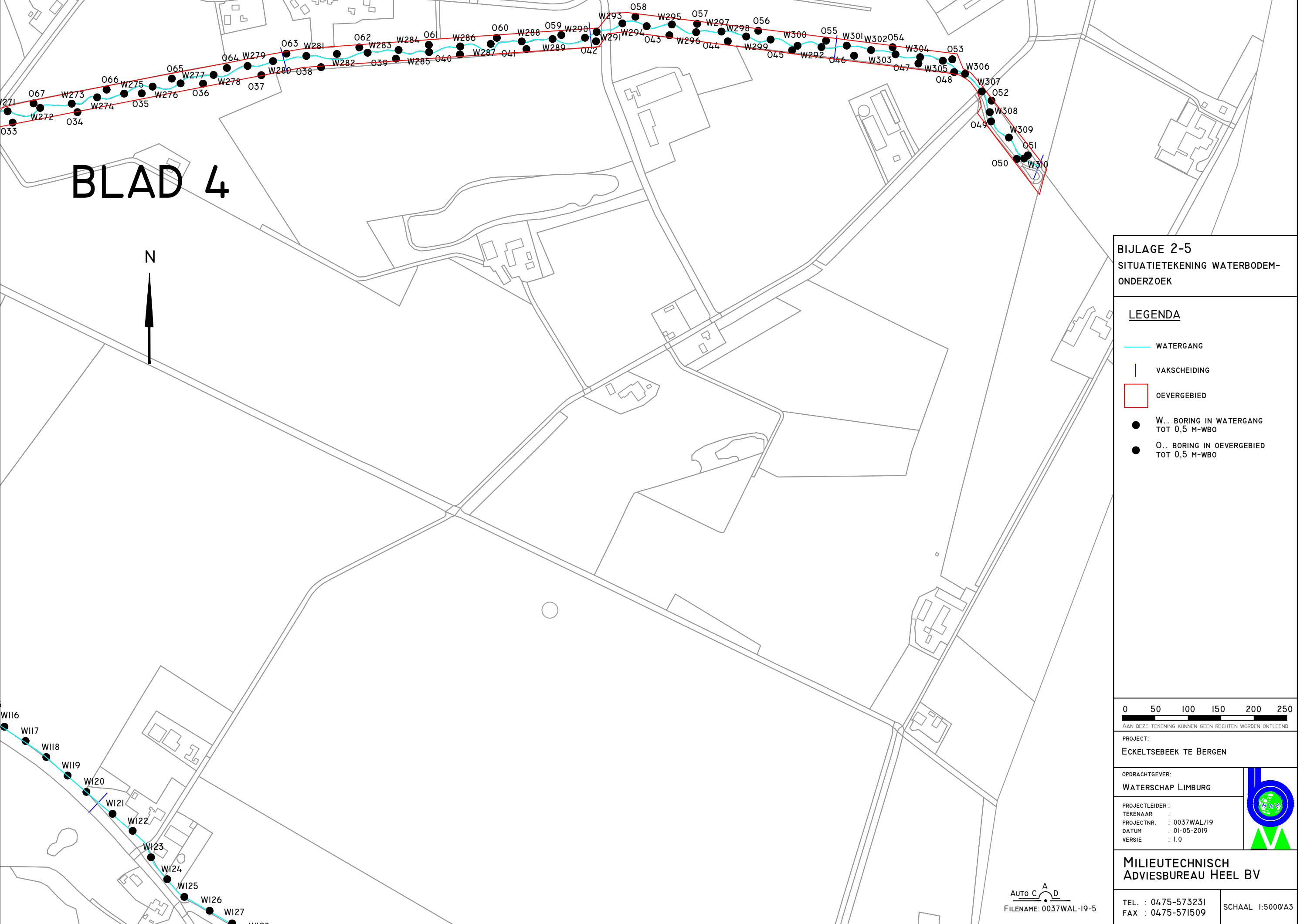


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SCHAAL 1:5000/A3

AUTO C A D
FILENAME: 0037WAL-19-3



BIJLAGE 2-5
**SITUATIETEKENING WATERBODEM-
ONDERZOEK**

LEGENDA

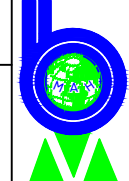
- WATERGANG
- VAKSCHEIDING
- OEVERGEBIED
- W.. BORING IN WATERGANG
TOT 0,5 M-WBO
- O.. BORING IN OEVERGEBIED
TOT 0,5 M-WBO



PROJECT:
ECKELTSEBEEK TE BERGEN

OPDRACHTGEVER:
WATERSCHAP LIMBURG

PROJECTLEIDER :
TEKENAAR :
PROJECTNR. : 0037WAL/19
DATUM : 01-05-2019
VERSIE : 1.0



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AUTO C A D
FILENAME: 0037WAL-19-5

BLAD 5



BIJLAGE 2-6 SITUATIETEKENING WATERBODEM- ONDERZOEK

LEGENDA

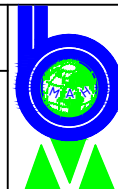
-  WATERGANG
-  VAKSCHEIDING
-  OEVERGEBIED
-  W.. BORING IN WATERGANG
TOT 0,5 M-WBO
-  O.. BORING IN OEVERGEBIED
TOT 0,5 M-WBO



PROJECT:
ECKELTSEBEEK TE BERGEN

OPDRACHTGEVER:
WATERSCHAP LIMBURG

PROJECTLEIDER :
TEKENAAR :
PROJECTNR. : 0037WAL/19
DATUM : 01-05-2019
VERSIE : 1.0



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Auto C A D
FILENAME: 0037WAL-19-6

BLAD 6

N



BIJLAGE 2-7
**SITUATIETEKENING WATERBODEM-
ONDERZOEK**

LEGENDA

— WATERGANG
| VAKSCHEIDING
□ OEVERGEBIED

● W.. BORING IN WATERGANG
TOT 0,5 M-WBO
● O.. BORING IN OEVERGEBIED
TOT 0,5 M-WBO

0 50 100 150 200 250
AAN DEZE TEKENING KUNNEN GEEN RECHTEN WORDEN ONTLEEND

PROJECT:
ECKELTSEBEEK TE BERGEN

OPDRACHTGEVER:
WATERSCHAP LIMBURG

PROJECTLEIDER :
TEKENAAR :
PROJECTNR. : 0037WAL/19
DATUM : 01-05-2019
VERSIE : 1.0

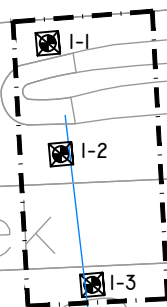
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SCHAAL 1:5000/A3



Bleijenbeek



BIJLAGE 2-8
SITUATIETEKENING DUIKER I

LEGENDA

-  DUIKER
-  ONDERZOEKSLOCATIE
-  BORING
-  PROEFGAT

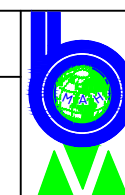


AAN DEZE TEKENING KUNNEN GEEN RECHTEN WORDEN ONTLEEND

PROJECT:
ECKELTSEBEK TE BERGEN

OPDRACHTGEVER:
WATERSCHAP LIMBURG

PROJECTLEIDER :
TEKENAAR :
PROJECTNR. : 0037WAL/19
DATUM : 01-05-2019
VERSIE : 1.0



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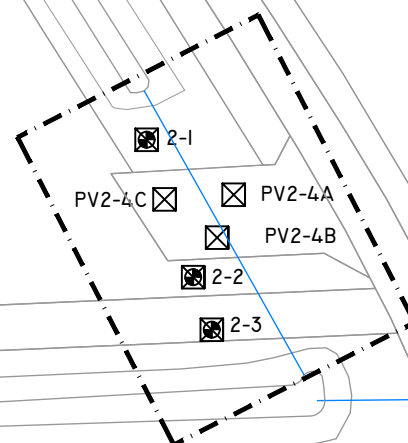
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FILENAME: 0037WAL-19-8



Bleijenbeek



BIJLAGE 2-9
SITUATIETEKENING DUIKER 2

LEGENDA

— DUIKER

[] ONDERZOEKSLOCATIE

● BORING
☒ PROEFGAT

0510152025

AAN DEZE TEKENING KUNNEN GEEN RECHTEN WORDEN ONTLEEND

PROJECT:
ECKELTSEBEEK TE BERGEN

OPDRACHTGEVER:
WATERSCHAP LIMBURG

PROJECTLEIDER :
TEKENAAR :
PROJECTNR. : 0037WAL/19
DATUM : 01-05-2019
VERSIE : 1.0

AUTO C
A
D

FILENAME: 0037WAL-19-9

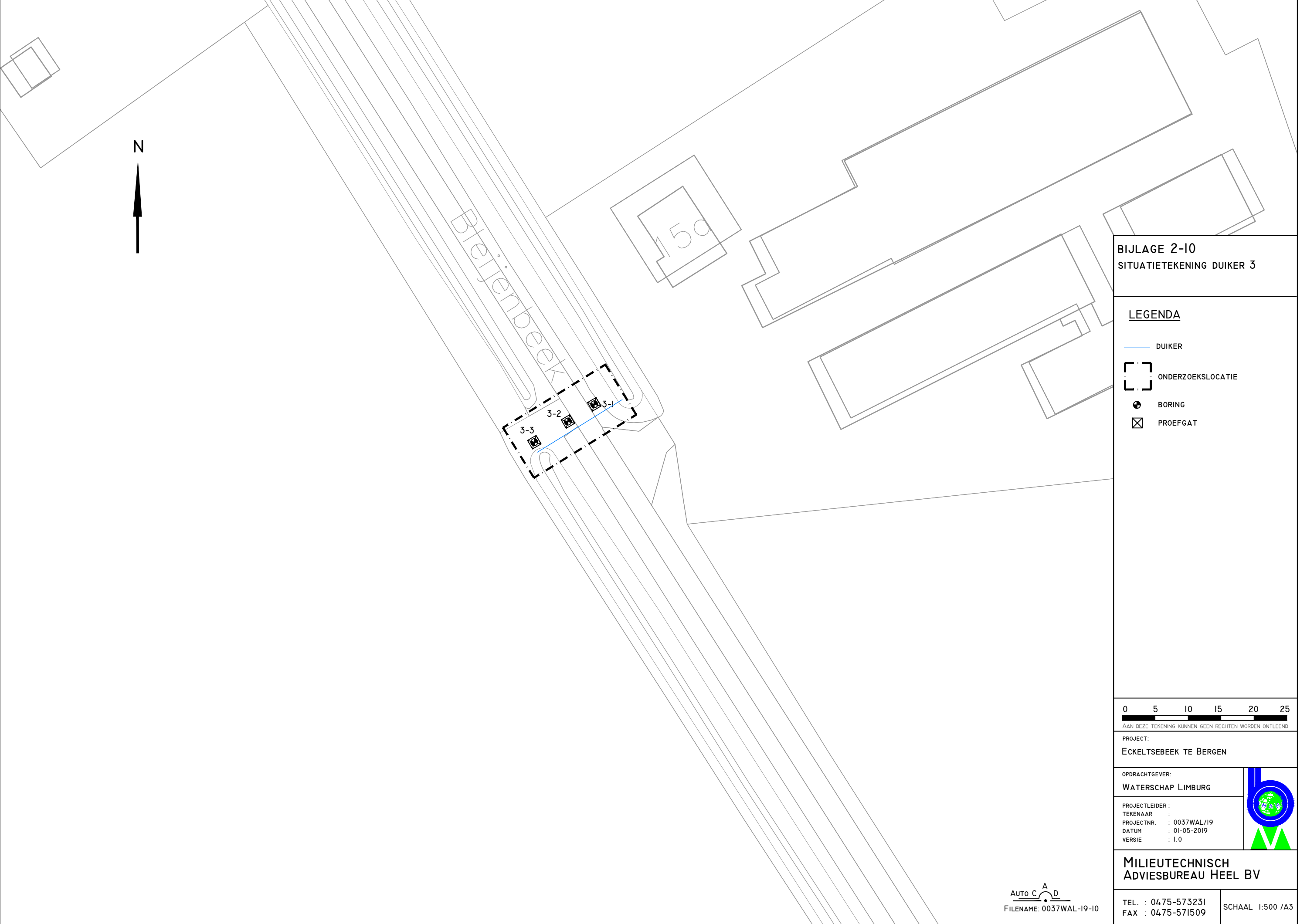
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SCHAAL 1:500 /A3



BIJLAGE 2-10
SITUATIETEKENING DUIKER 3

LEGENDA

- DUIKER
- ONDERZOEKSLOCATIE
- BORING
- PROEFGAT



PROJECT:
ECKELTSEBEEK TE BERGEN

OPDRACHTGEVER:
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PROJECTLEIDER :
TEKENAAR :
PROJECTNR. : 0037WAL/19
DATUM : 01-05-2019
VERSIE : 1.0

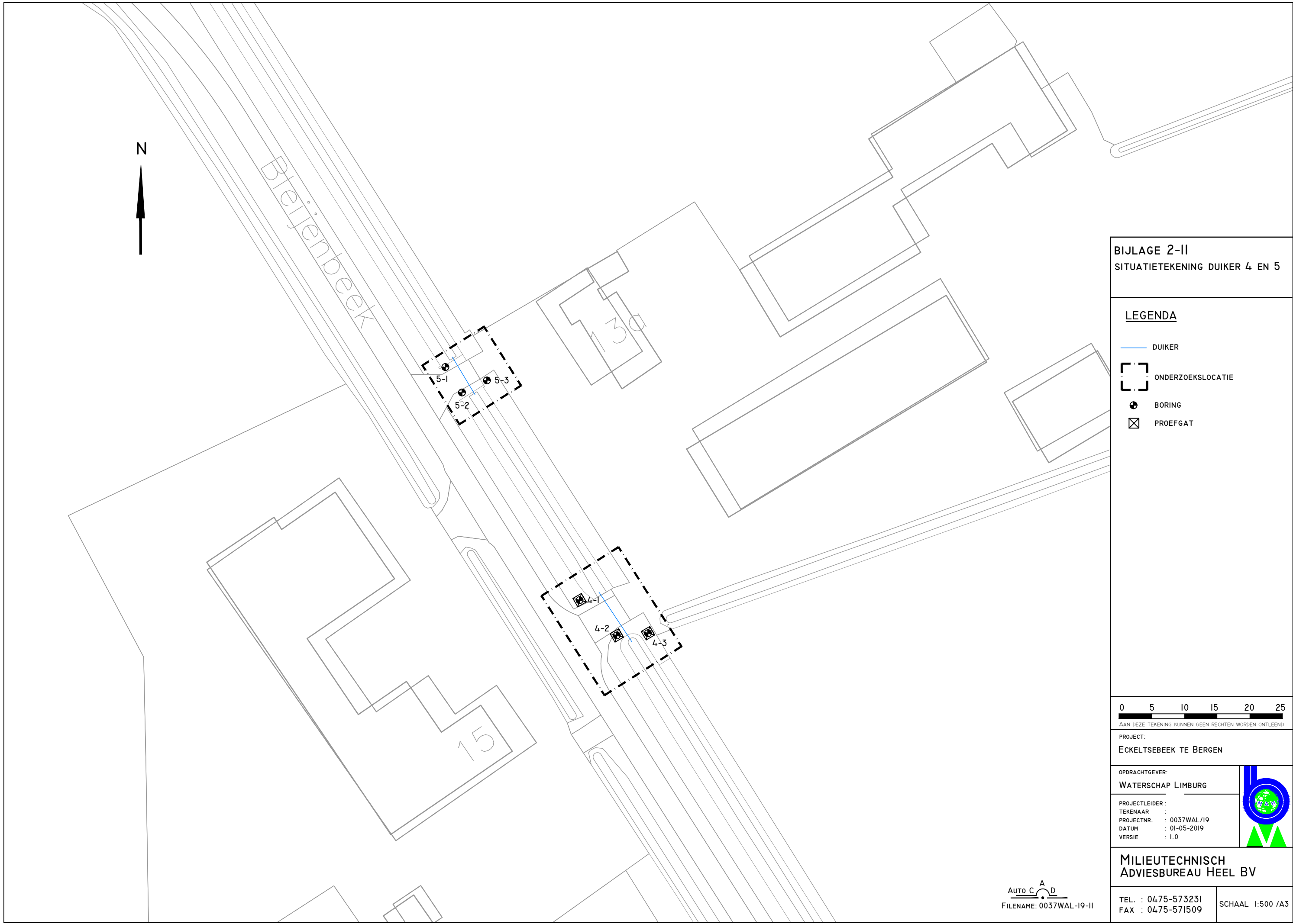


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Auto C A D
FILENAME: 0037WAL-19-10



BIJLAGE 2-II
SITUATIETEKENING DUIKER 4 EN 5

LEGENDA

-  DUIKER
-  ONDERZOEKSLOCATIE
-  BORING
-  PROEFGAT



PROJECT:
ECKELTSEBEEK TE BERGEN

OPDRACHTGEVER:
WATERSCHAP LIMBURG

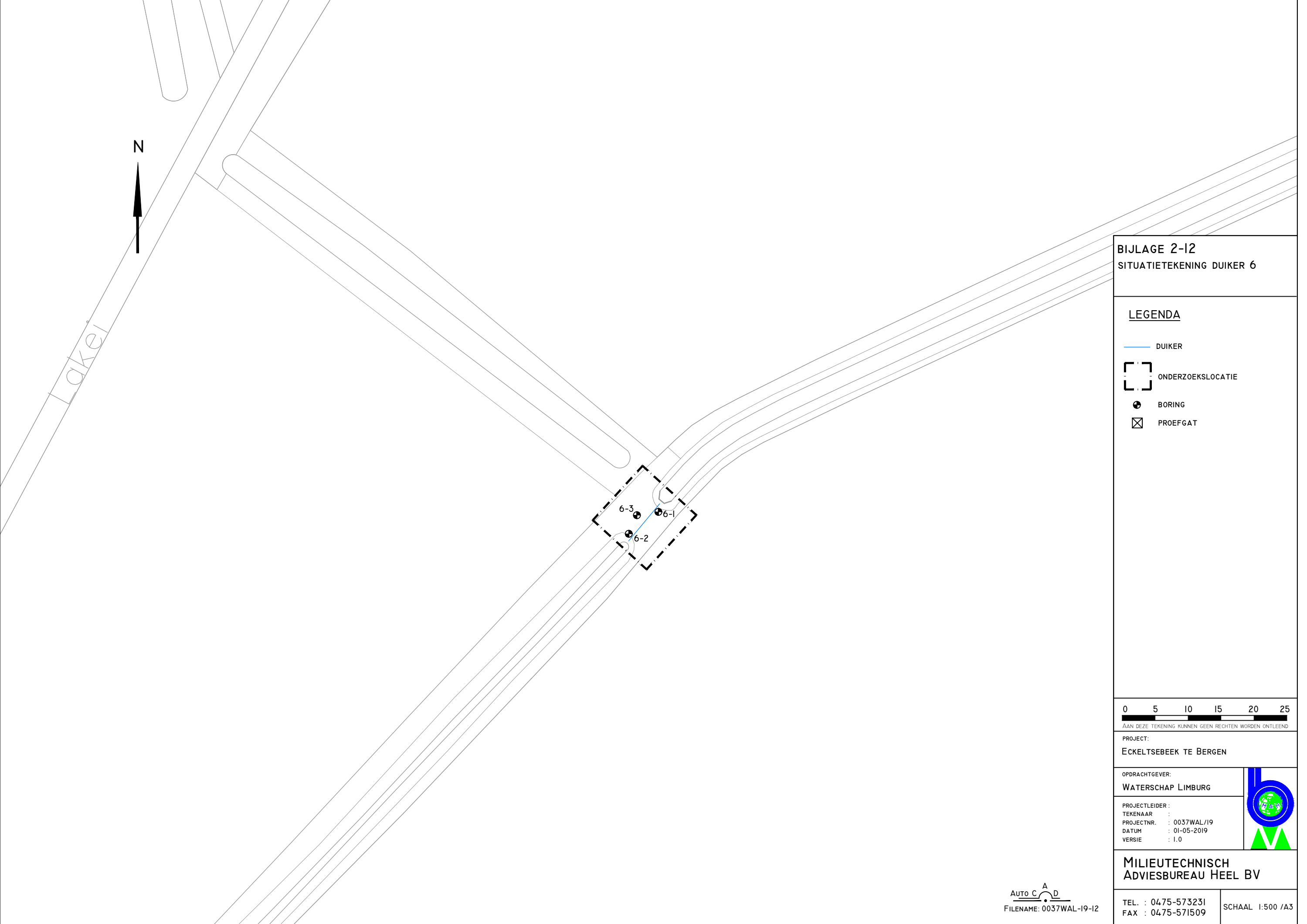
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PROJECTNR. : 0037WAL/19
DATUM : 01-05-2019
VERSIE : 1.0



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BIJLAGE 2-12
SITUATIETEKENING DUIKER 6

LEGENDA

- DUIKER
- ONDERZOEKSLOCATIE
- BORING
- PROEFGAT



PROJECT:
ECKELTSEBEK TE BERGEN

OPDRACHTGEVER:
WATERSCHAP LIMBURG

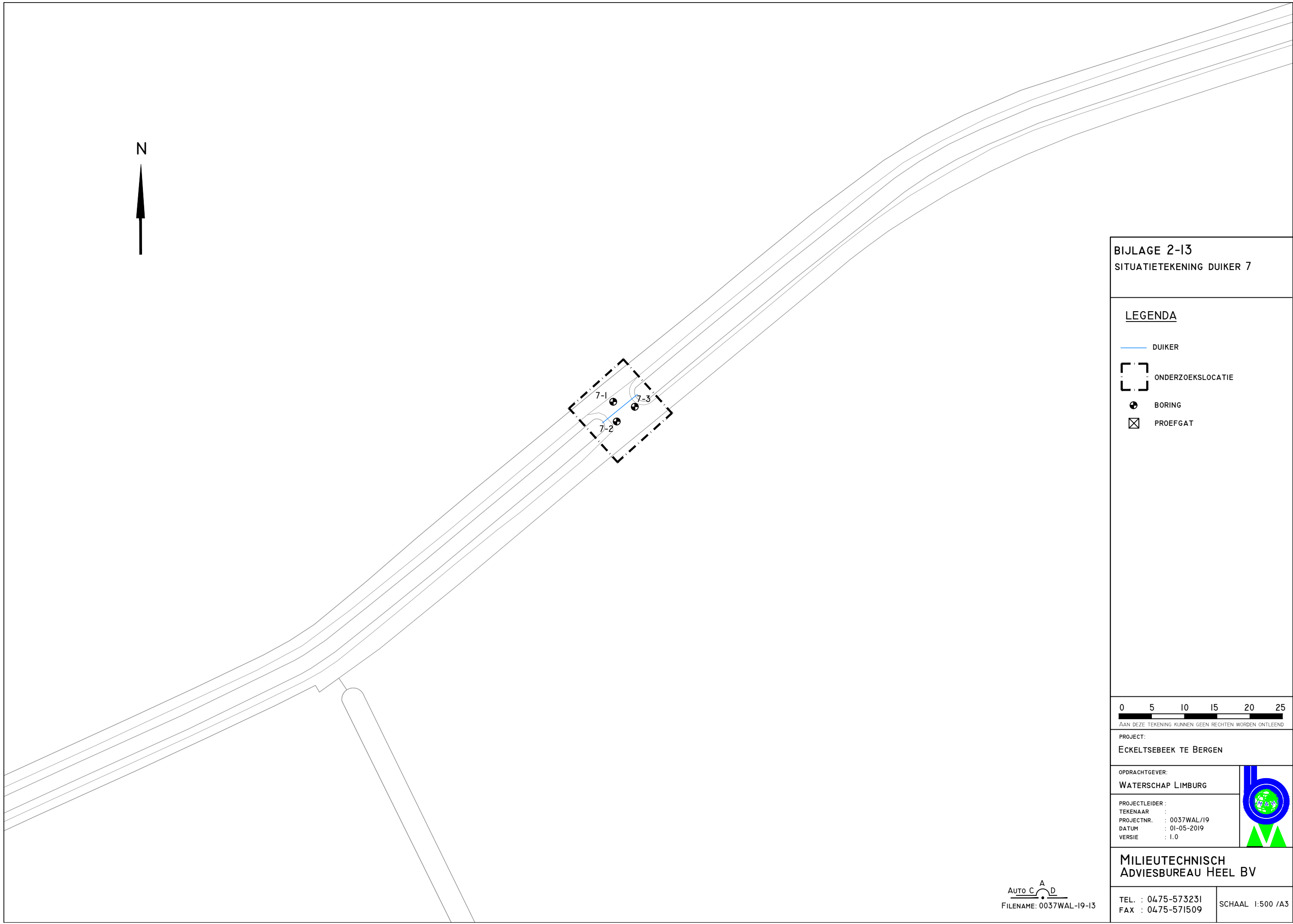
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VERSIE : 1.0



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SCHAAL 1:500 /A3



BIJLAGE 2-13
SITUATIETEKENING DUIKER 7

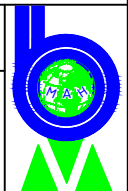
- LEGENDA**
-  DUIKER
 -  ONDERZOEKSLOCATIE
 -  BORING
 -  PROEFGAT



PROJECT:
ECKELTSEBEEK TE BERGEN

OPDRACHTGEVER:
WATERSCHAP LIMBURG

PROJECTLEIDER :
TEKENAAR :
PROJECTNR. : 0037WAL/19
DATUM : 01-05-2019
VERSIE : 1.0



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SCHAAL 1:500 /A3



BIJLAGE 2-14
SITUATIETEKENING DUIKER 8

- LEGENDA
- DUIKER
 - ONDERZOEKSLOCATIE
 - BORING
 - PROEFGAT



PROJECT:
ECKELTSEBEEK TE BERGEN

OPDRACHTGEVER:
WATERSCHAP LIMBURG

PROJECTLEIDER :
TEKENAAR :
PROJECTNR. : 0037WAL/19
DATUM : 01-05-2019
VERSIE : 1.0



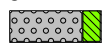
MILIEUTECHNISCH
ADVIESBUREAU HEEL BV

TEL. : 0475-573231
FAX : 0475-571509

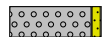
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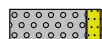
BIJLAGE 3
BOORPROFIELEN

Legenda (conform NEN 5104)**grind**

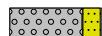
Grind, siltig



Grind, zwak zandig



Grind, matig zandig



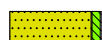
Grind, sterk zandig



Grind, uiterst zandig

zand

Zand, kleiig



Zand, zwak siltig



Zand, matig siltig



Zand, sterk siltig



Zand, uiterst siltig

veen

Veen, mineraalarm



Veen, zwak kleiig



Veen, sterk kleiig



Veen, zwak zandig



Veen, sterk zandig

klei

Klei, zwak siltig



Klei, matig siltig



Klei, sterk siltig



Klei, uiterst siltig



Klei, zwak zandig



Klei, matig zandig



Klei, sterk zandig

leem

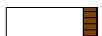
Leem, zwak zandig



Leem, sterk zandig

overige toevoegingen

zwak humeus



matig humeus



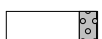
sterk humeus



zwak grindig



matig grindig



sterk grindig

geur

geen geur



zwakke geur



matige geur



sterke geur



uiterste geur

olie

geen olie-water reactie



zwakke olie-water reactie



matige olie-water reactie



sterke olie-water reactie



uiterste olie-water reactie

p.i.d.-waarde

>0



>1



>10



>100



>1000



>10000

monsters

geroerd monster



ongeroid monster



volumering

overig

bijzonder bestanddeel



Gemiddeld hoogste grondwaterstand



grondwaterstand



Gemiddeld laagste grondwaterstand



slib



water

peilbuis

blinde buis



casing



hoogste grondwaterstand



gemiddelde grondwaterstand



laagste grondwaterstand



zand afdichting



bentoniet/mikoliet/klei afdichting

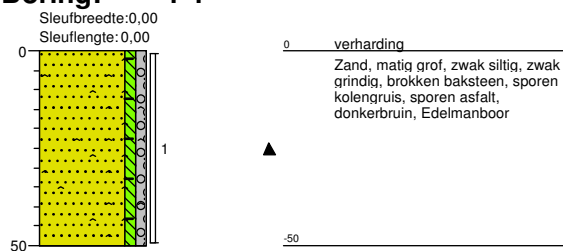


grind afdichting

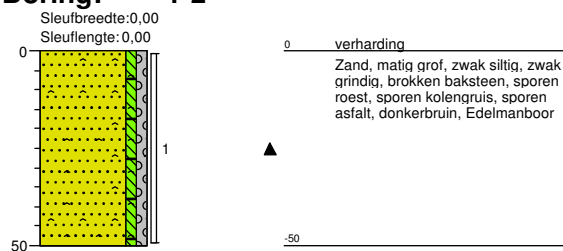


filter

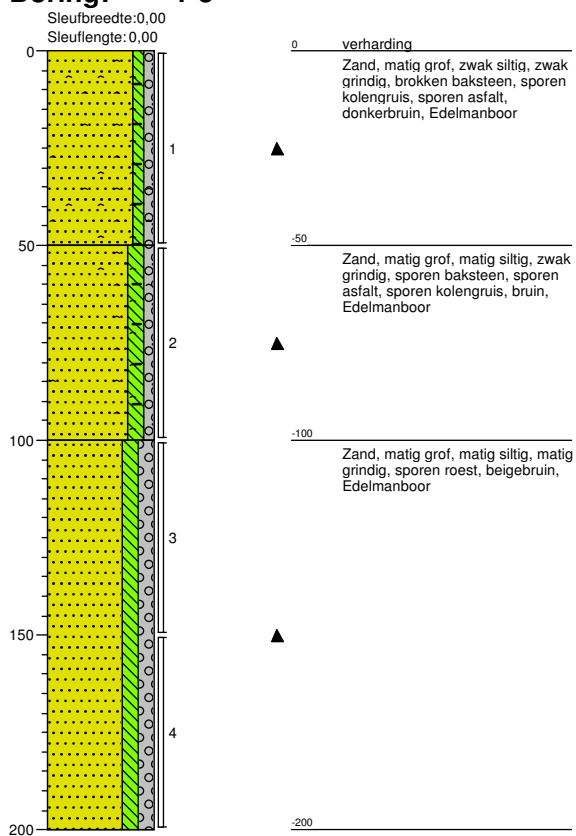
Boring: 1-1



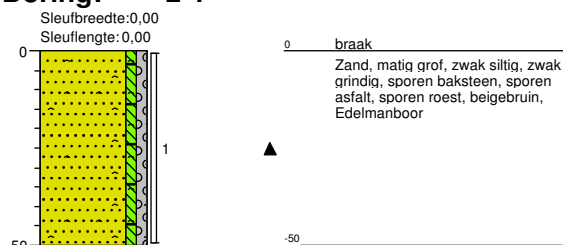
Boring: 1-2



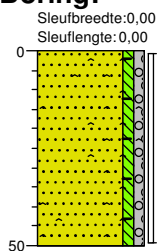
Boring: 1-3



Boring: 2-1



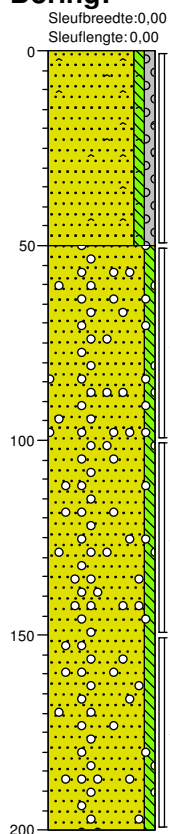
Boring: 2-2



0 braak

Zand, matig grof, zwak siltig, zwak grindig, sporen asfalt, sporen baksteen, sporen kolengruis, beigebruin, Edelmanboor

Boring: 2-3

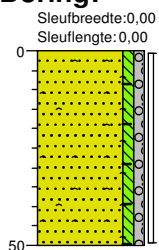


0 braak

Zand, matig grof, zwak siltig, zwak grindig, sporen puingranulaat, sporen asfalt, sporen roest, bruinbeige, Edelmanboor

Zand, matig grof, zwak siltig, sporen roest, sporen grind, witbeige, Edelmanboor

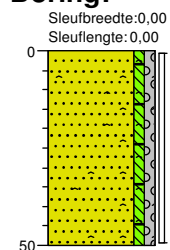
Boring: 3-1



0 braak

Zand, matig grof, zwak siltig, zwak grindig, sporen baksteen, sporen roest, sporen kolengruis, brokken asfalt, bruin, Edelmanboor

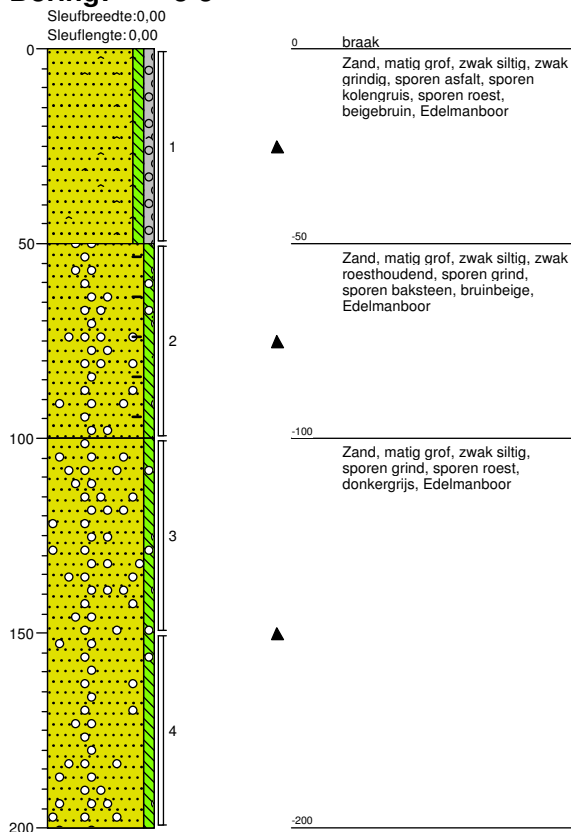
Boring: 3-2



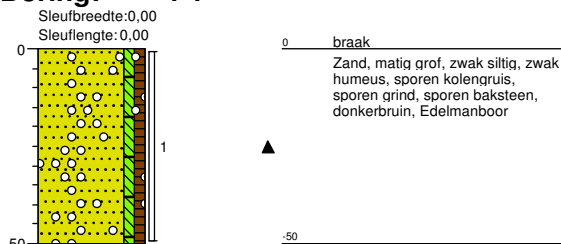
0 braak

Zand, matig grof, zwak siltig, zwak grindig, brokken asfalt, sporen baksteen, sporen kolengruis, grijsbruin, Edelmanboor

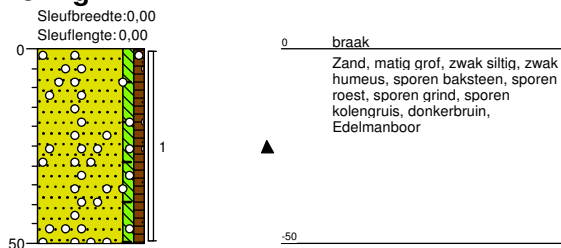
Boring: 3-3



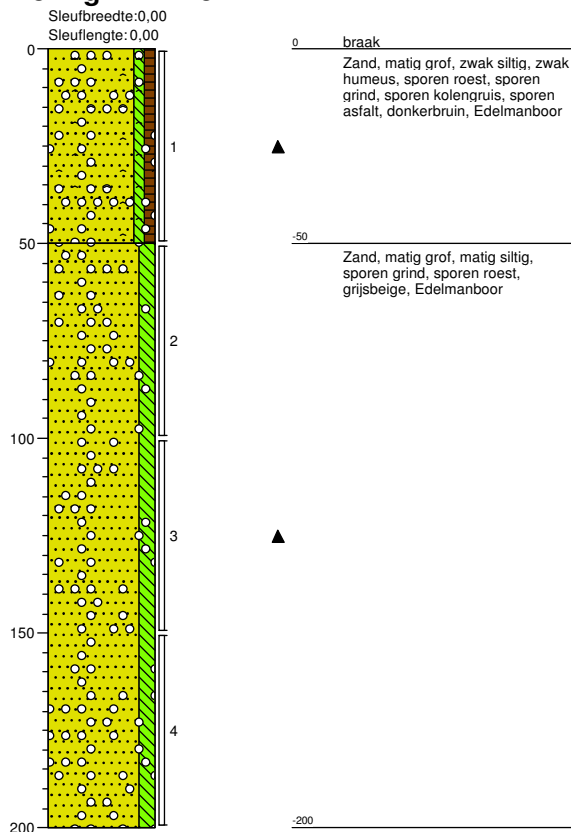
Boring: 4-1



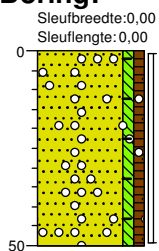
Boring: 4-2



Boring: 4-3



Boring: 5-1



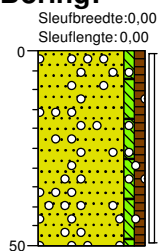
0 braak

Zand, matig fijn, zwak siltig, zwak humeus, sporen grind, sporen baksteen, sporen roest, sporen kolengruis, bruin, Edelmanboor



-50

Boring: 5-2



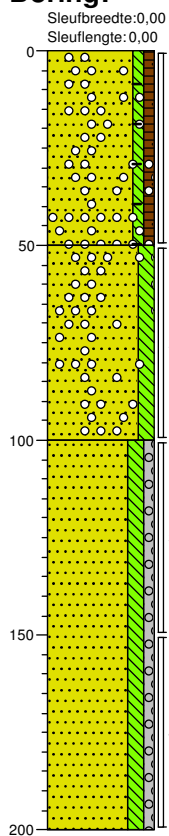
0 braak

Zand, matig fijn, zwak siltig, zwak humeus, sporen grind, sporen kolengruis, sporen baksteen, bruin, Edelmanboor



-50

Boring: 5-3



0 braak

Zand, matig fijn, zwak siltig, zwak humeus, sporen grind, sporen roest, sporen kolengruis, sporen baksteen, bruin, Edelmanboor



-50

Zand, matig grof, matig siltig, sporen grind, zwak roesthoudend, sporen plastic, grijsbeige, Edelmanboor



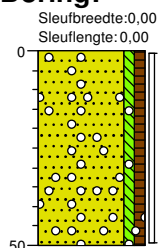
-100

Zand, zeer grof, matig siltig, zwak grindig, zwak roesthoudend, oranjebeige, Edelmanboor



-200

Boring: 6-1



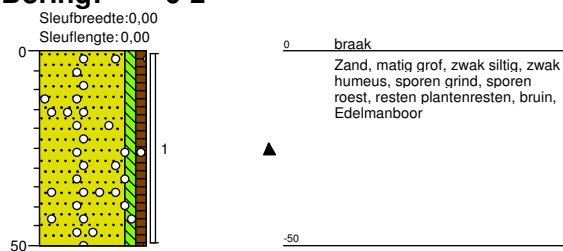
0 braak

Zand, matig grof, zwak siltig, zwak humeus, sporen roest, sporen grind, resten plantenresten, bruin, Edelmanboor

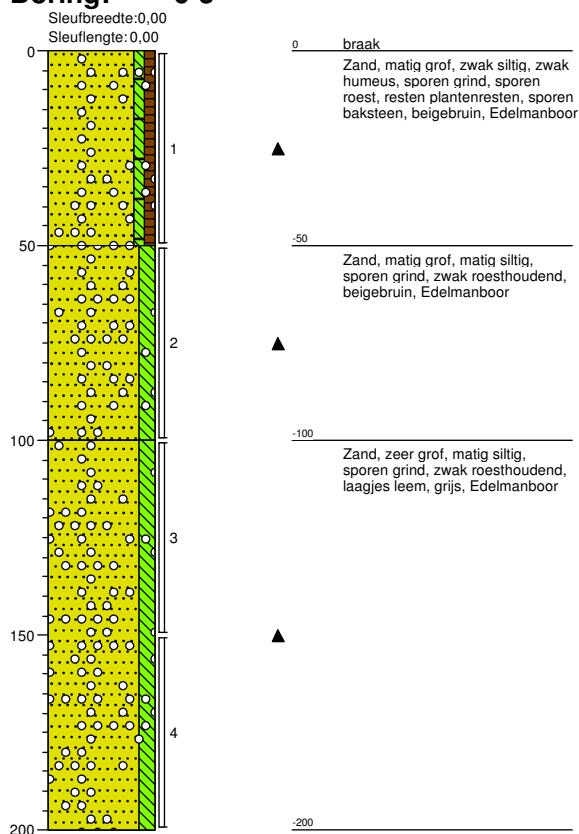


-50

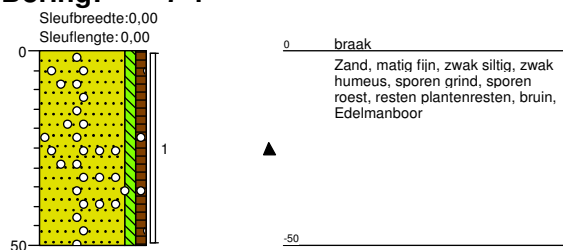
Boring: 6-2



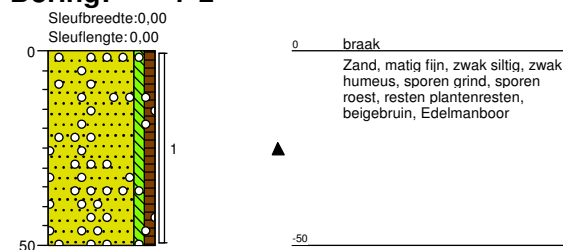
Boring: 6-3



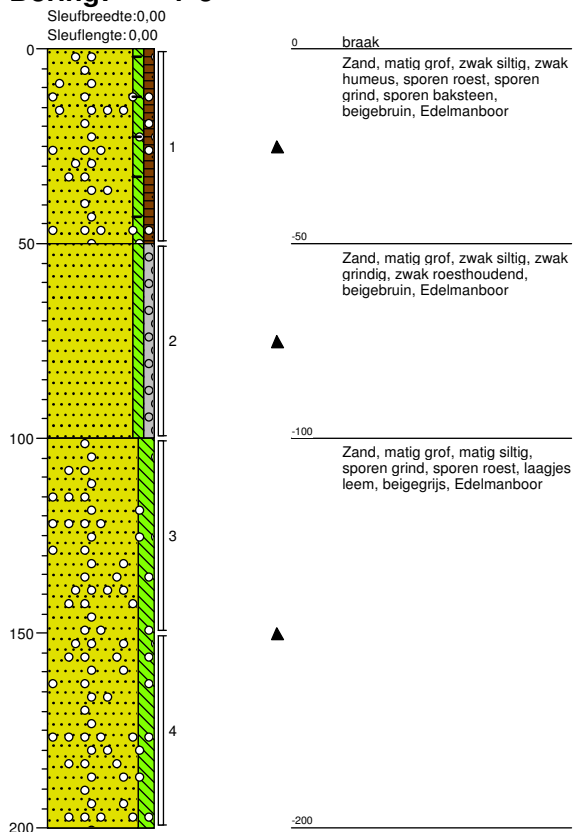
Boring: 7-1



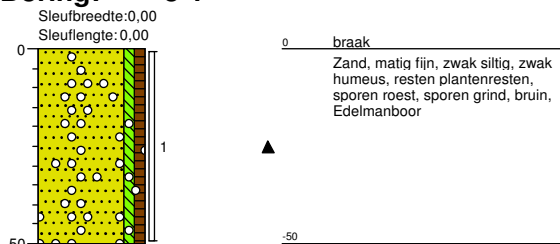
Boring: 7-2



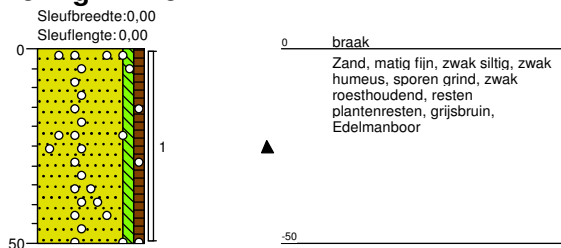
Boring: 7-3



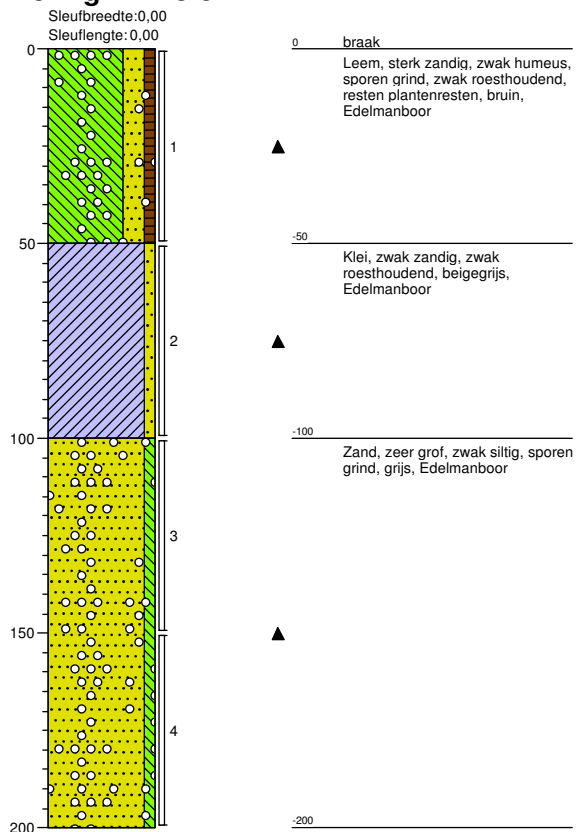
Boring: 8-1



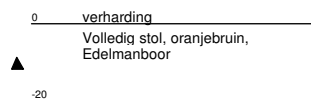
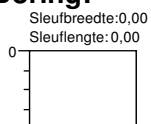
Boring: 8-2



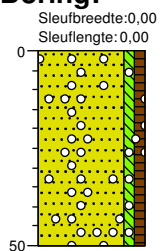
Boring: 8-3



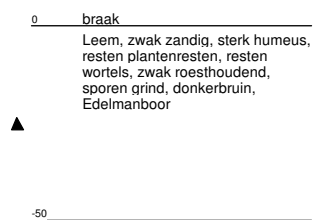
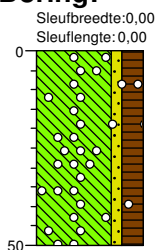
Boring: 8-4



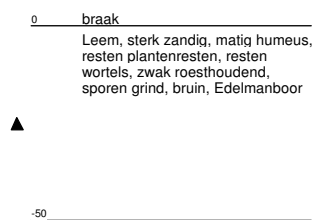
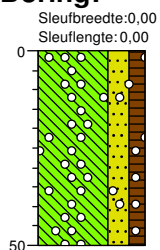
Boring: O01



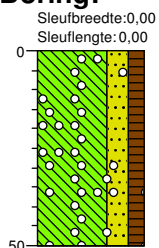
Boring: O02



Boring: O03



Boring: O04



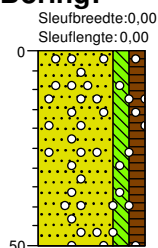
0 braak

Leem, sterk zandig, matig humeus,
resten plantenresten, resten
wortels, zwak roesthoudend,
sporen grind, grijsbruin,
Edelmanboor



-50

Boring: O05



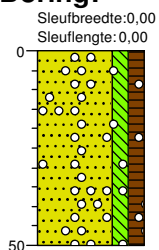
0 braak

Zand, matig grof, matig siltig, matig
humeus, resten plantenresten,
resten wortels, zwak
roesthoudend, sporen grind,
grijsbruin, Edelmanboor



-50

Boring: O06



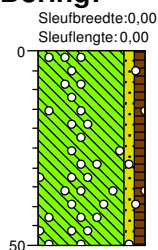
0 braak

Zand, matig grof, matig siltig, matig
humeus, resten wortels, resten
plantenresten, sporen roest,
sporen grind, grijsbruin,
Edelmanboor



-50

Boring: O07



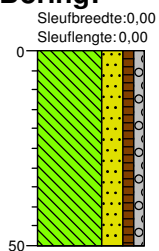
0 braak

Leem, zwak zandig, zwak humeus,
resten plantenresten, resten
wortels, zwak roesthoudend,
sporen grind, bruinoranje,
Edelmanboor



-50

Boring: O08



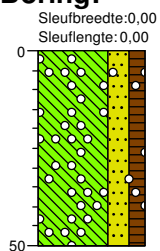
0 braak

Leem, sterk zandig, zwak humeus,
zwak grindig, resten plantenresten,
resten wortels, zwak
roesthoudend, Edelmanboor



-50

Boring: O09



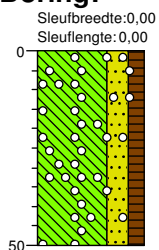
0 braak

Leem, sterk zandig, matig humeus,
resten plantenresten, resten
wortels, zwak roesthoudend,
sporen grind, bruin, Edelmanboor



-50

Boring: O10



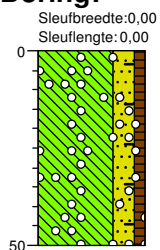
0 braak

Leem, sterk zandig, matig humeus,
sporen grind, sporen roest, sporen
kolengruis, donkerbruin,
Edelmanboor



-50

Boring: O11



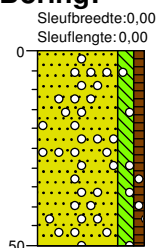
0 braak

Leem, sterk zandig, zwak humeus,
sporen grind, brokken roest,
sporen baksteen, donkerbruin,
Edelmanboor



-50

Boring: O12



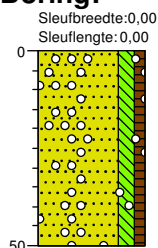
0 braak

Zand, matig grof, matig siltig, zwak humeus, sporen grind, sporen roest, resten wortels, resten plantenresten, bruinbeige, Edelmanboor



-50

Boring: O13



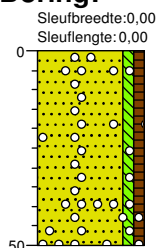
0 braak

Zand, matig grof, matig siltig, zwak humeus, sporen grind, sporen roest, resten plantenresten, resten wortels, beigebruin, Edelmanboor



-50

Boring: O14



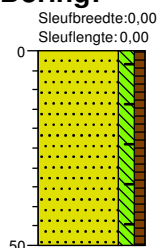
0 braak

Zand, matig grof, zwak siltig, zwak humeus, brokken roest, sporen grind, resten plantenresten, bruinbeige, Edelmanboor



-50

Boring: O15



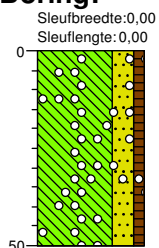
0 braak

Zand, matig grof, matig siltig, zwak humeus, zwak roesthoudend, sporen baksteen, resten wortels, bruinbeige, Edelmanboor



-50

Boring: O16



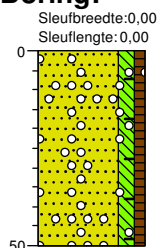
0 braak

Leem, sterk zandig, zwak humeus,
sporen grind, sporen roest, resten
wortels, bruin, Edelmanboor



-50

Boring: O17



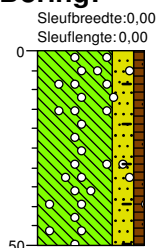
0 braak

Zand, matig grof, matig siltig, zwak
humeus, resten plantenresten,
sporen baksteen, sporen grind,
grijsbruin, Edelmanboor



-50

Boring: O18



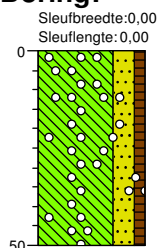
0 braak

Leem, sterk zandig, zwak humeus,
sporen grind, resten plantenresten,
sporen baksteen, donkerbruin,
Edelmanboor



-50

Boring: O19



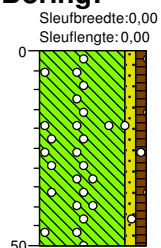
0 braak

Leem, sterk zandig, zwak humeus,
sporen grind, sporen roest, resten
wortels, donkerbruin, Edelmanboor



-50

Boring: O20



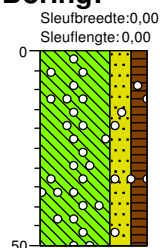
0 braak

Leem, zwak zandig, zwak humeus,
sporen grind, sporen roest, resten
wortels, resten plantenresten,
donkerbruin, Edelmanboor



-50

Boring: O21



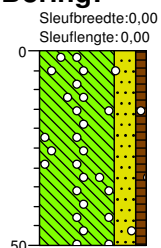
0 braak

Leem, sterk zandig, matig humeus,
sporen roest, sporen grind, resten
wortels, donkerbruin, Edelmanboor



-50

Boring: O22



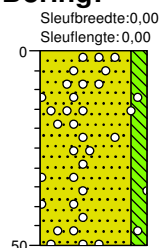
0 braak

Leem, sterk zandig, zwak humeus,
sporen roest, sporen grind, resten
wortels, resten plantenresten,
grijsbruin, Edelmanboor



-50

Boring: O23



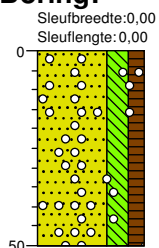
0 braak

Zand, matig grof, matig siltig,
sporen roest, resten wortels,
sporen grind, grijsbruin,
Edelmanboor



-50

Boring: O24



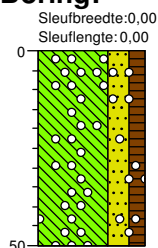
0 braak

Zand, zeer grof, sterk siltig, matig humeus, sporen grind, resten plantenresten, resten wortels, zwak roesthoudend, bruin, Edelmanboor



-50

Boring: O25



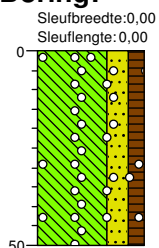
0 braak

Leem, sterk zandig, matig humeus, resten plantenresten, resten wortels, zwak roesthoudend, sporen grind, grijsbruin, Edelmanboor



-50

Boring: O26



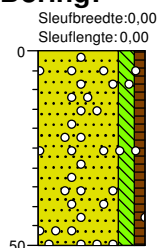
0 braak

Leem, sterk zandig, matig humeus, sporen grind, zwak roesthoudend, resten wortels, resten plantenresten, bruin, Edelmanboor



-50

Boring: O27



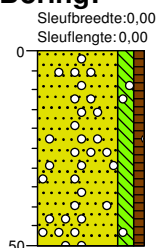
0 braak

Zand, matig grof, matig siltig, zwak humeus, sporen grind, resten plantenresten, resten wortels, zwak roesthoudend, grijsbruin, Edelmanboor



-50

Boring: O28



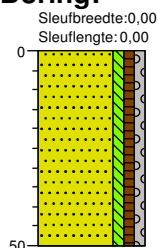
0 braak

Zand, matig grof, matig siltig, zwak humeus, sporen grind, resten wortels, resten plantenresten, zwak roesthoudend, oranjebruin, Edelmanboor

▲

-50

Boring: O29



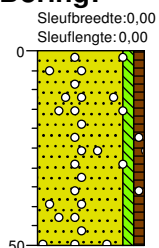
0 braak

Zand, zeer grof, zwak siltig, zwak humeus, zwak grindig, zwak roesthoudend, resten wortels, resten plantenresten, grijs, Edelmanboor

▲

-50

Boring: O30



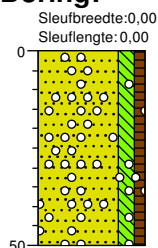
0 braak

Zand, zeer grof, zwak siltig, zwak humeus, sporen grind, zwak roesthoudend, resten wortels, resten plantenresten, grijs, Edelmanboor

▲

-50

Boring: O31



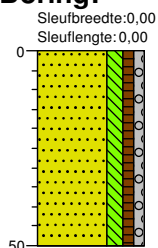
0 braak

Zand, matig grof, matig siltig, zwak humeus, sporen grind, zwak roesthoudend, resten plantenresten, resten wortels, grijsbruin, Edelmanboor

▲

-50

Boring: O32



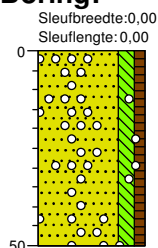
0 braak

Zand, zeer grof, matig siltig, zwak humeus, zwak grindig, zwak roesthoudend, resten wortels, resten plantenresten, bruinbeige, Edelmanboor

▲

-50

Boring: O33



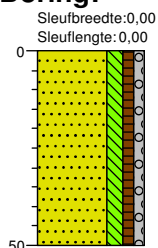
0 braak

Zand, matig grof, matig siltig, zwak humeus, sporen grind, resten wortels, resten plantenresten, beigebruin, Edelmanboor

▲

-50

Boring: O34



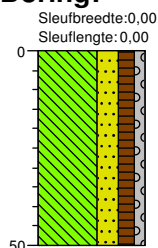
0 braak

Zand, zeer grof, matig siltig, zwak humeus, zwak grindig, resten plantenresten, resten wortels, zwak roesthoudend, grijsbeige, Edelmanboor

▲

-50

Boring: O35



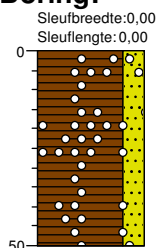
0 braak

Leem, sterk zandig, matig humeus, zwak grindig, resten wortels, resten plantenresten, sporen roest, grijsbruin, Edelmanboor

▲

-50

Boring: O36



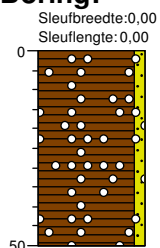
0 braak

Veen, sterk zandig, sporen grind,
zwak roesthoudend, resten
wortels, resten plantenresten,
donkerbruin, Edelmanboor



-50

Boring: O37



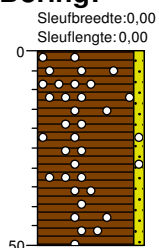
0 braak

Veen, zwak zandig, sporen grind,
zwak roesthoudend, resten
wortels, resten plantenresten,
donkerbruin, Edelmanboor



-50

Boring: O38



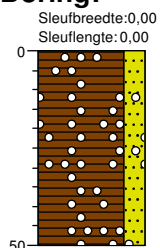
0 braak

Veen, zwak zandig, sporen grind,
zwak roesthoudend, resten
wortels, resten plantenresten,
donkerbruin, Edelmanboor



-50

Boring: O39



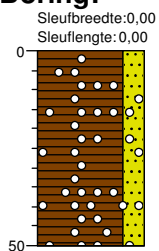
0 braak

Veen, sterk zandig, sporen grind,
zwak roesthoudend, resten
wortels, resten plantenresten,
donkerbruin, Edelmanboor



-50

Boring: O40



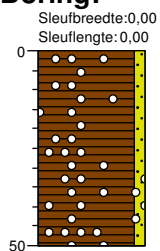
0 braak

Veen, sterk zandig, sporen grind,
zwak roesthoudend, resten
wortels, resten plantenresten,
donkerbruin, Edelmanboor



-50

Boring: O41



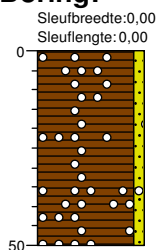
0 braak

Veen, zwak zandig, sporen grind,
zwak roesthoudend, resten
wortels, resten plantenresten,
donkerbruin, Edelmanboor



-50

Boring: O42



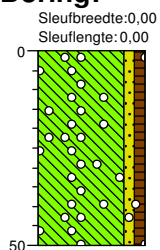
0 braak

Veen, zwak zandig, sporen grind,
zwak roesthoudend, resten
plantenresten, resten wortels,
donkerbruin, Edelmanboor



-50

Boring: O43



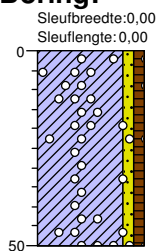
0 braak

Leem, zwak zandig, zwak humeus,
sporen grind, sporen roest, resten
plantenresten, resten wortels,
donkerbruin, Edelmanboor



-50

Boring: O44



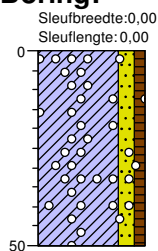
0 braak

Klei, zwak zandig, zwak humeus,
sporen grind, zwak roesthoudend,
resten wortels, resten
plantenresten, grijsbruin,
Edelmanboor



-50

Boring: O45



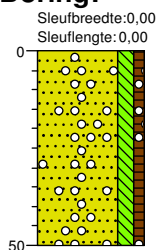
0 braak

Klei, matig zandig, zwak humeus,
sporen grind, zwak roesthoudend,
resten wortels, resten
plantenresten, bruingrijs,
Edelmanboor



-50

Boring: O46



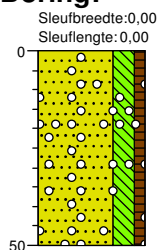
0 braak

Zand, matig grof, matig siltig, zwak
humeus, sporen grind, sporen
roest, resten wortels, resten
plantenresten, bruingrijs,
Edelmanboor



-50

Boring: O47



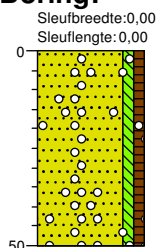
0 braak

Zand, zeer grof, sterk siltig, zwak
humeus, sporen grind, sporen
roest, resten wortels, resten
plantenresten, donkergrijs,
Edelmanboor



-50

Boring: O48



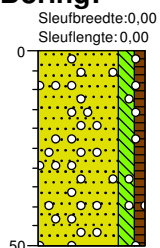
0 braak

Zand, matig grof, zwak siltig, zwak humeus, sporen grind, sporen roest, resten wortels, resten plantenresten, donkergrijs, Edelmanboor



-50

Boring: O49



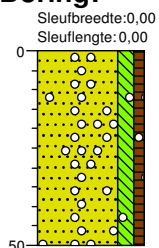
0 braak

Zand, matig grof, matig siltig, zwak humeus, sporen grind, zwak roesthoudend, resten plantenresten, resten wortels, oranjebruin, Edelmanboor



-50

Boring: O50



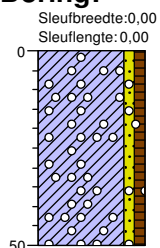
0 braak

Zand, matig grof, matig siltig, zwak humeus, sporen grind, sporen roest, resten wortels, resten plantenresten, grijsbruin, Edelmanboor



-50

Boring: O51



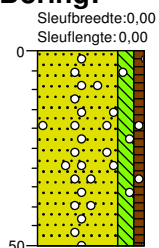
0 waterbodem

Klei, zwak zandig, zwak humeus, sporen grind, sporen roest, grijsbruin, Edelmanboor



-50

Boring: O52



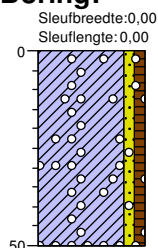
0 braak

Zand, matig grof, matig siltig, zwak humeus, sporen grind, sporen roest, resten wortels, resten plantenresten, grijsbruin, Edelmanboor

▲

-50

Boring: O53



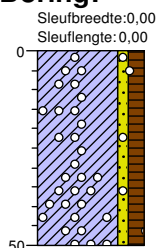
0 braak

Klei, zwak zandig, zwak humeus, resten wortels, sporen grind, sporen roest, grijsbruin, Edelmanboor

▲

-50

Boring: O54



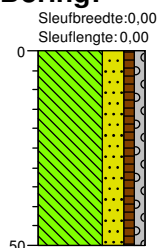
0 braak

Klei, zwak zandig, matig humeus, sporen grind, zwak roesthoudend, resten plantenresten, resten wortels, donkerbruin, Edelmanboor

▲

-50

Boring: O55



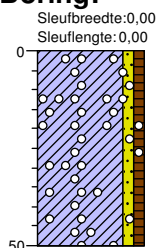
0 braak

Leem, sterk zandig, zwak humeus, zwak grindig, resten plantenresten, resten wortels, zwak roesthoudend, bruingrijs, Edelmanboor

▲

-50

Boring: O56



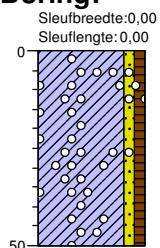
0 braak

Klei, zwak zandig, zwak humeus,
sporen grind, resten plantenresten,
resten wortels, grijsbruin,
Edelmanboor



-50

Boring: O57



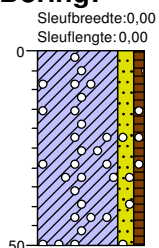
0 braak

Klei, zwak zandig, zwak humeus,
sporen grind, sporen roest, resten
plantenresten, resten wortels,
grijsbruin, Edelmanboor



-50

Boring: O58



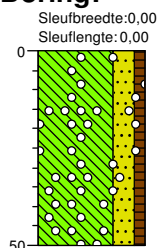
0 braak

Klei, matig zandig, zwak humeus,
sporen grind, zwak roesthoudend,
zwak wortelhoudend, resten
plantenresten, donkerbruin,
Edelmanboor



-50

Boring: O59



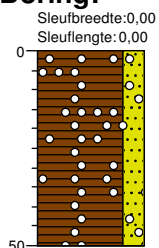
0 braak

Leem, sterk zandig, zwak humeus,
resten plantenresten, resten
wortels, sporen roest, sporen
grind, donkerbruin, Edelmanboor



-50

Boring: O60

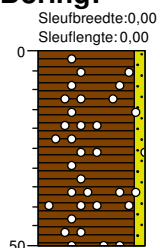


0 braak
Veen, sterk zandig, sporen grind,
resten plantenresten, resten
wortels, donkerbruin, Edelmanboor



-50

Boring: O61

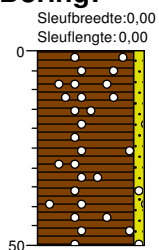


0 braak
Veen, zwak zandig, resten
plantenresten, resten wortels,
zwak roesthoudend, sporen grind,
donkerbruin, Edelmanboor



-50

Boring: O62

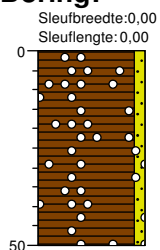


0 braak
Veen, zwak zandig, sporen grind,
zwak roesthoudend, resten
plantenresten, resten wortels,
donkerbruin, Edelmanboor



-50

Boring: O63

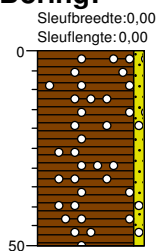


0 braak
Veen, zwak zandig, sporen grind,
zwak roesthoudend, zwak
wortelhoudend, resten
plantenresten, donkerbruin,
Edelmanboor



-50

Boring: O64

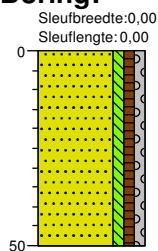


0 braak

Veen, zwak zandig, sporen grind,
zwak roesthoudend, resten
plantenresten, resten wortels,
donkerbruin, Edelmanboor

▲

Boring: O65

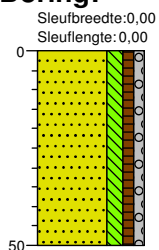


0 braak

Zand, zeer grof, zwak siltig, zwak
humeus, zwak grindig, zwak
roesthoudend, resten wortels,
resten plantenresten, grijsbeige,
Edelmanboor

▲

Boring: O66

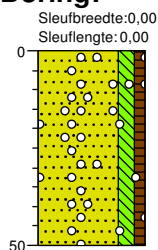


0 braak

Zand, zeer grof, matig siltig, zwak
humeus, zwak grindig, resten
plantenresten, resten wortels,
zwak roesthoudend, beigebruin,
Edelmanboor

▲

Boring: O67

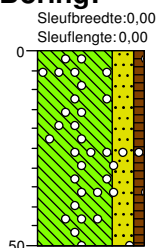


0 braak

Zand, matig grof, matig siltig, zwak
humeus, sporen grind, zwak
roesthoudend, resten
plantenresten, resten wortels,
bruinbeige, Edelmanboor

▲

Boring: O68



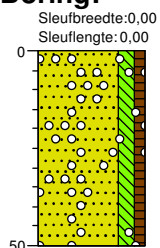
0 braak

Leem, sterk zandig, zwak humeus,
sporen grind, zwak roesthoudend,
resten wortels, resten
plantenresten, bruinbeige,
Edelmanboor

▲

-50

Boring: O69



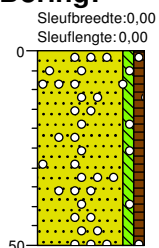
0 braak

Zand, matig grof, matig siltig, zwak
humeus, resten wortels, resten
plantenresten, sporen grind,
lichtgrijs, Edelmanboor

▲

-50

Boring: O70



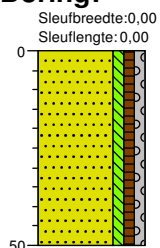
0 braak

Zand, matig grof, zwak siltig, zwak
humeus, sporen grind, resten
wortels, resten plantenresten,
grijsbeige, Edelmanboor

▲

-50

Boring: O71



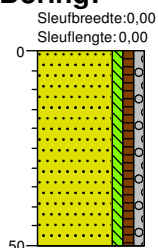
0 braak

Zand, matig grof, zwak siltig, zwak
humeus, zwak grindig, resten
plantenresten, resten wortels,
zwak roesthoudend, grijsbeige,
Edelmanboor

▲

-50

Boring: O72



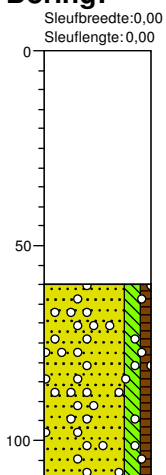
0 braak

Zand, zeer grof, zwak siltig, zwak humeus, zwak grindig, zwak roesthoudend, resten wortels, resten plantenresten, grijsbruin, Edelmanboor



-50

Boring: W001



0 waterbodem

Edelmanboor

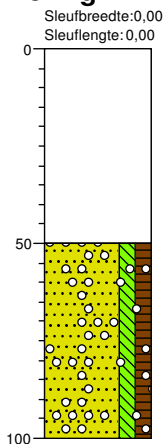
-60

Zand, zeer grof, matig siltig, zwak humeus, sporen grind, resten wortels, zwak roesthoudend, oranjebruin, Edelmanboor



-110

Boring: W002



0 waterbodem

Edelmanboor

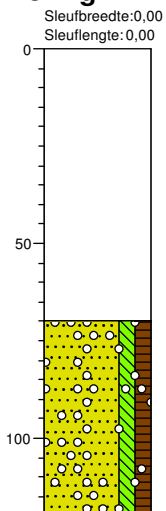
-50

Zand, zeer grof, matig siltig, matig humeus, sporen grind, resten wortels, zwak roesthoudend, oranjebruin, Edelmanboor



-100

Boring: W003



0 waterbodem

Edelmanboor

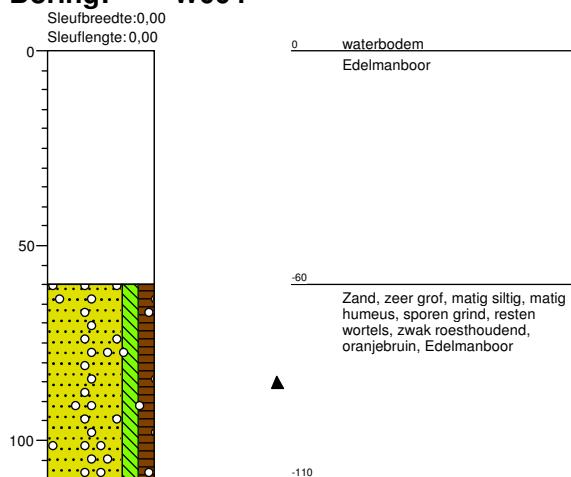
-70

Zand, zeer grof, matig siltig, matig humeus, sporen grind, resten wortels, sporen roest, oranjebruin, Edelmanboor

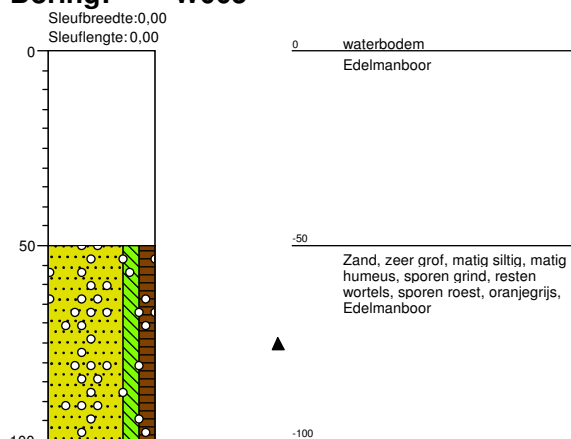


-120

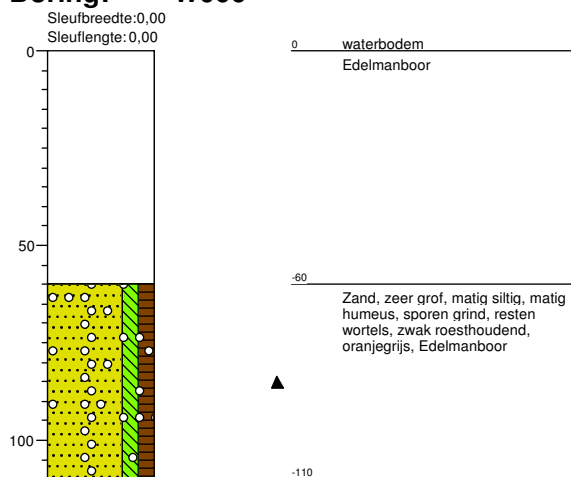
Boring: W004



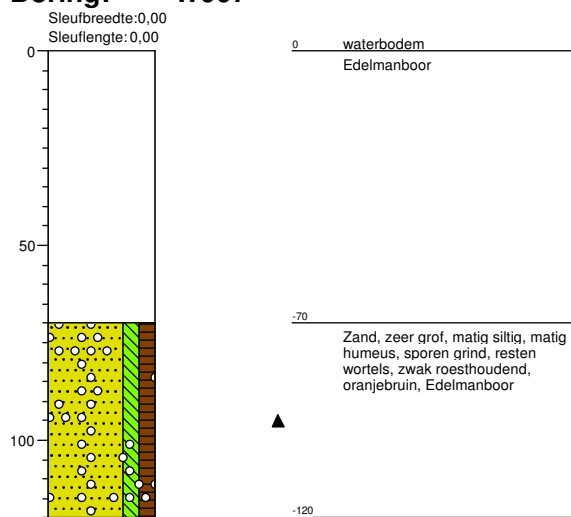
Boring: W005



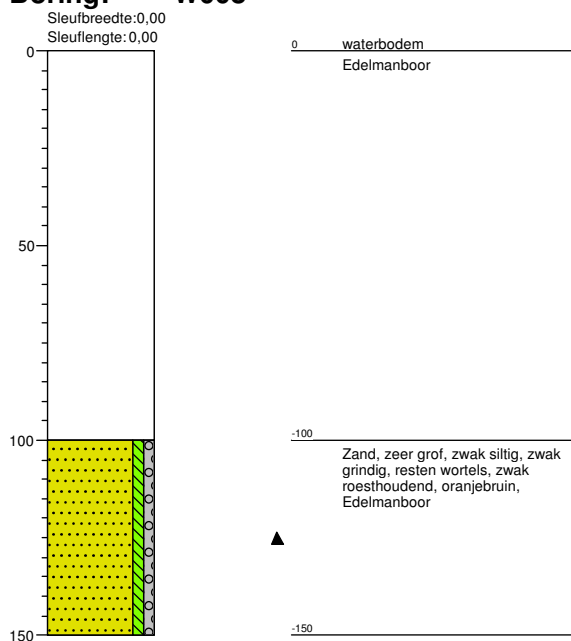
Boring: W006



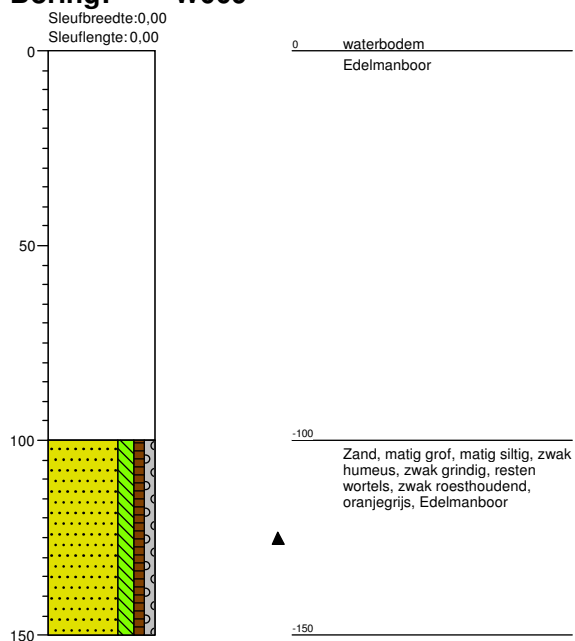
Boring: W007



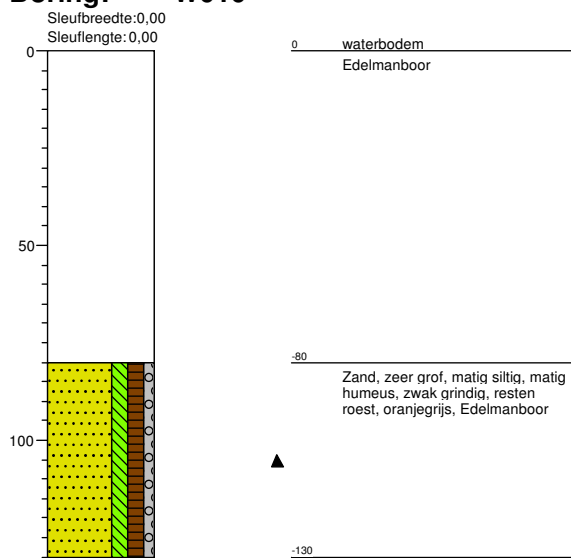
Boring: W008



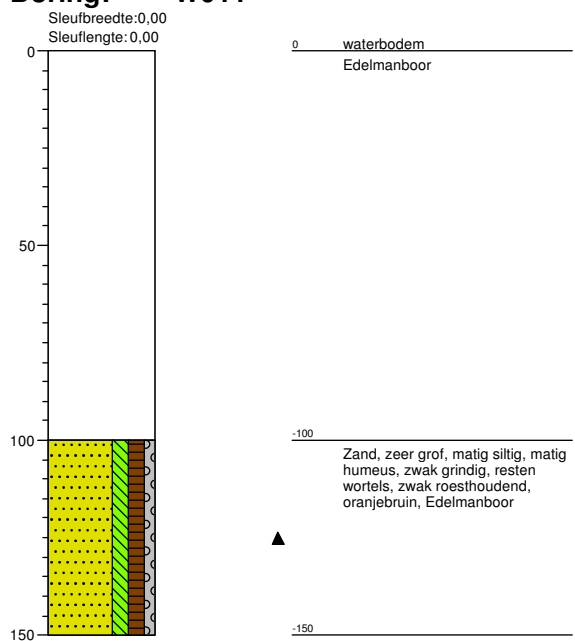
Boring: W009



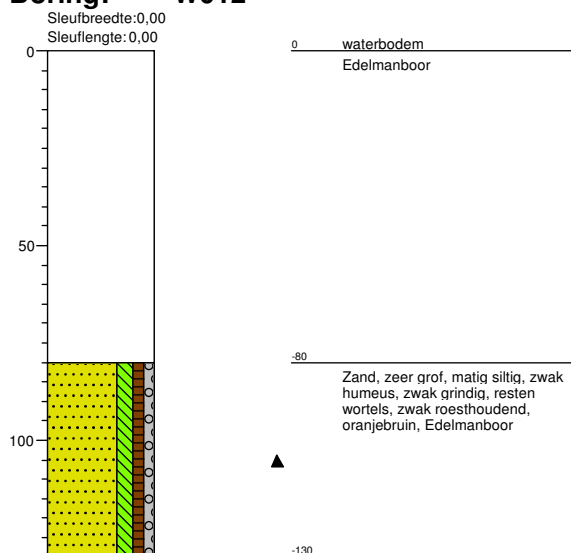
Boring: W010



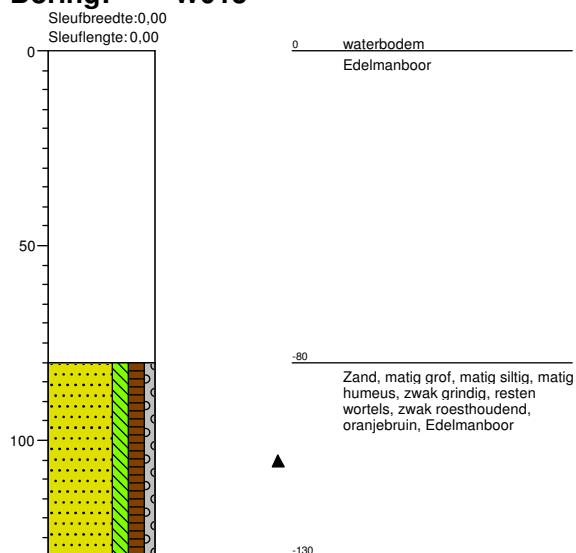
Boring: W011



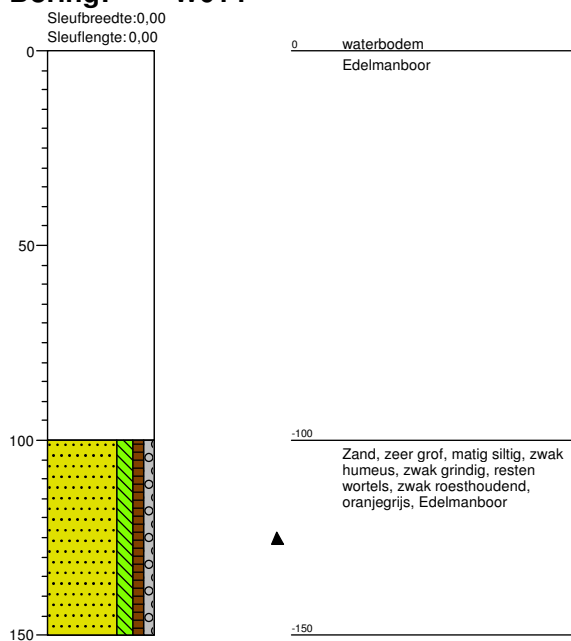
Boring: W012



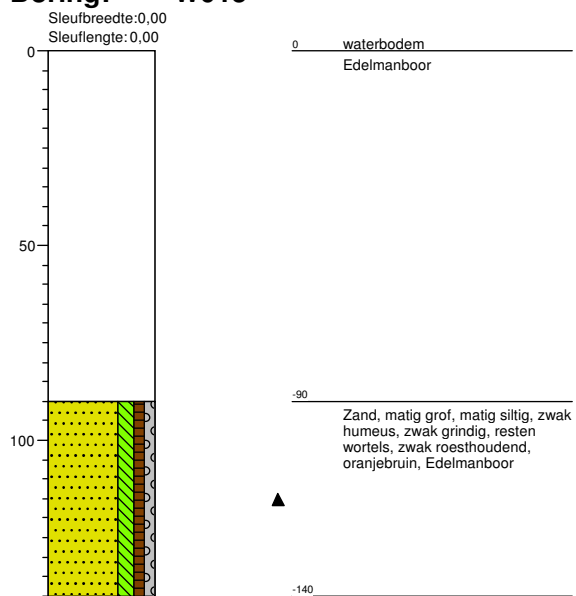
Boring: W013



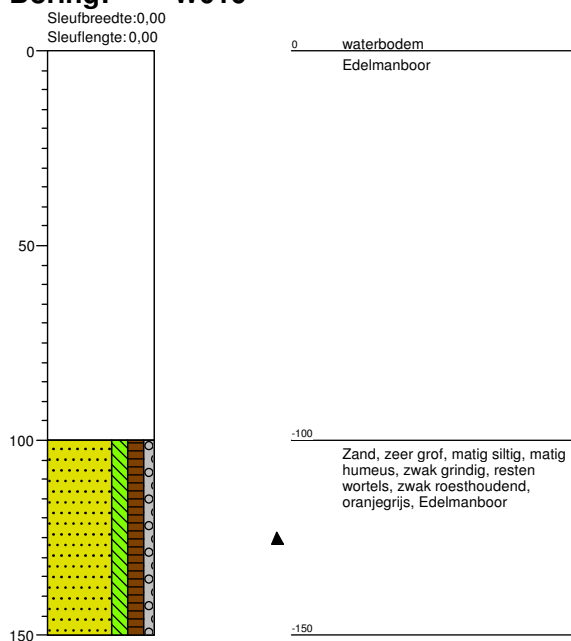
Boring: W014



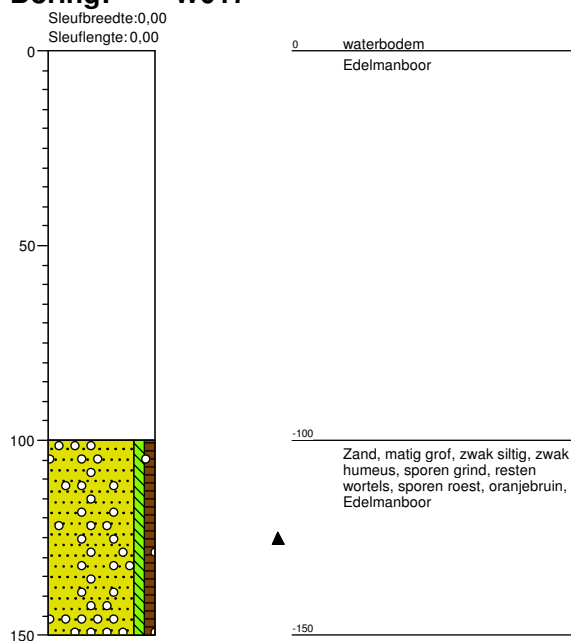
Boring: W015



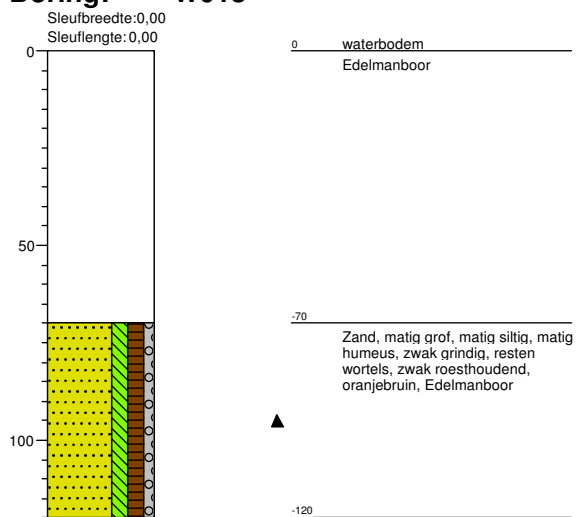
Boring: W016



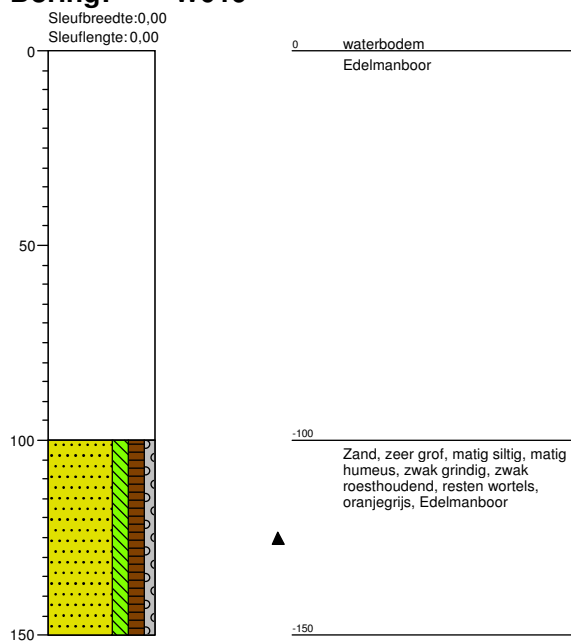
Boring: W017



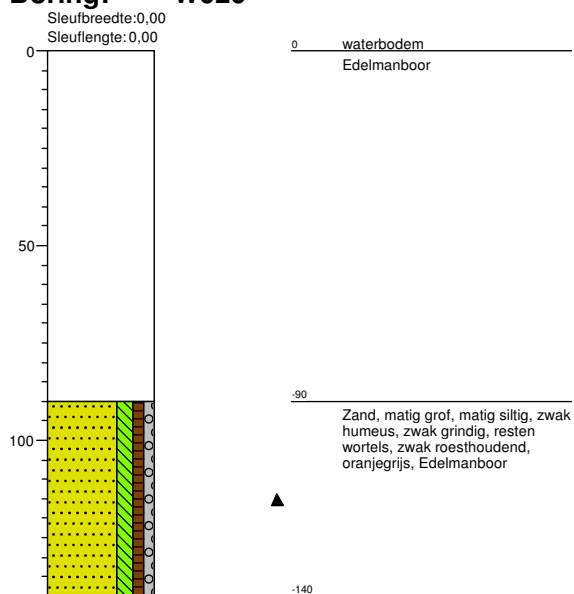
Boring: W018



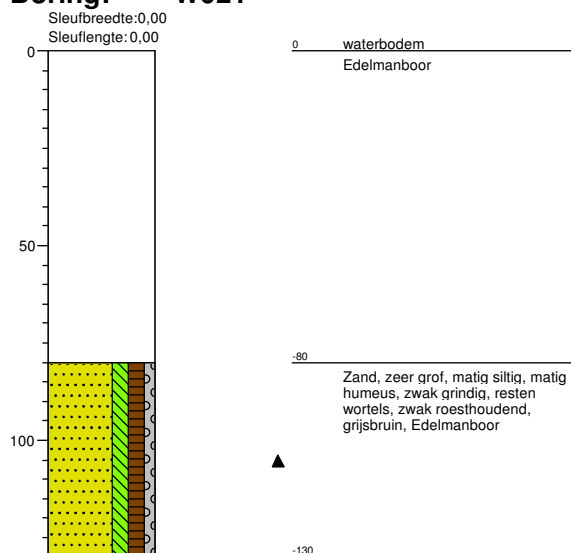
Boring: W019



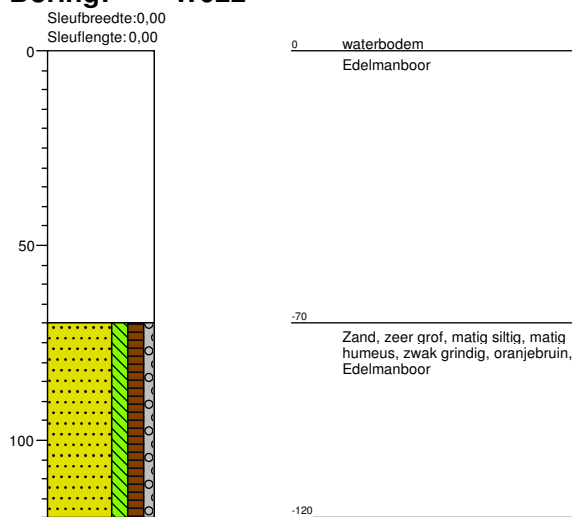
Boring: W020



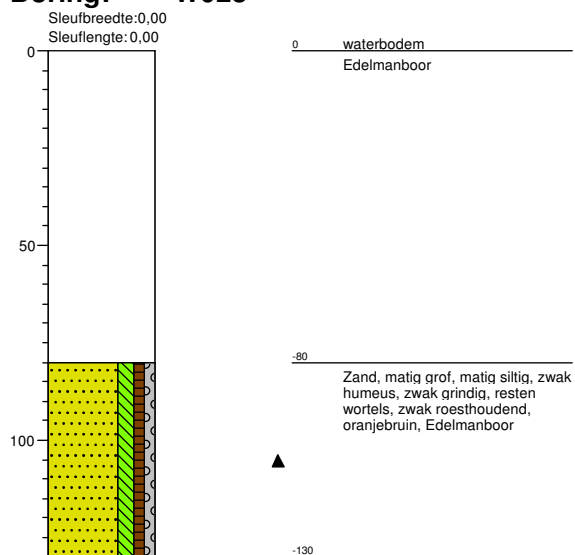
Boring: W021



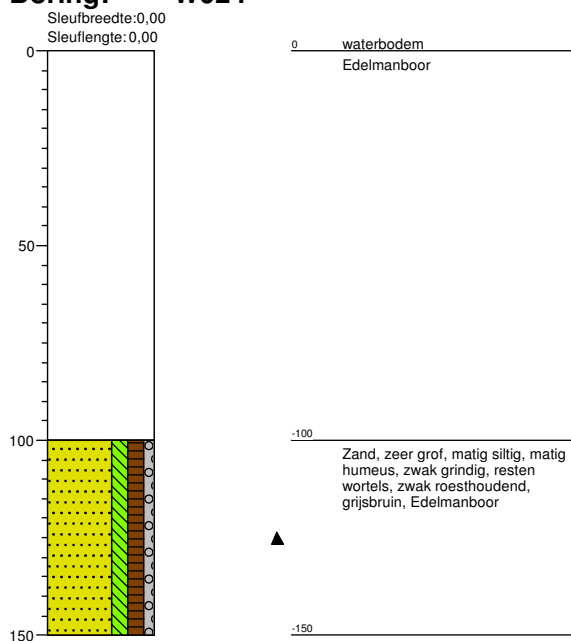
Boring: W022



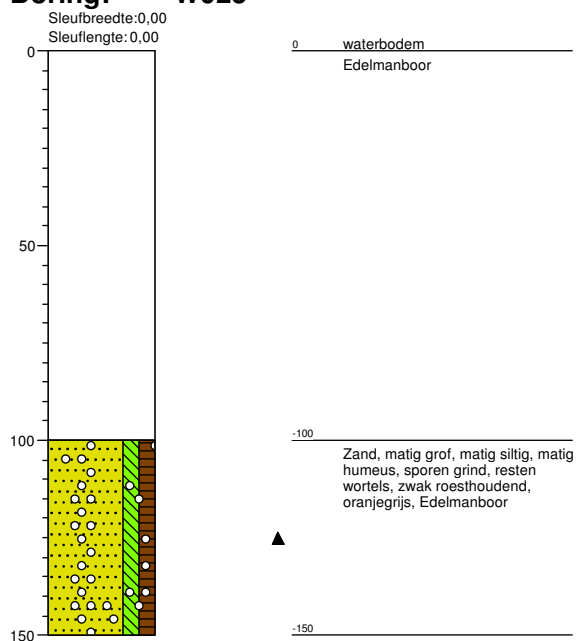
Boring: W023



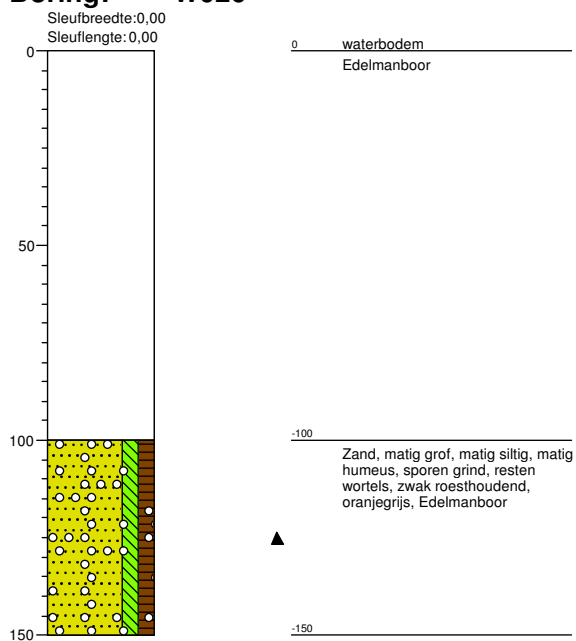
Boring: W024



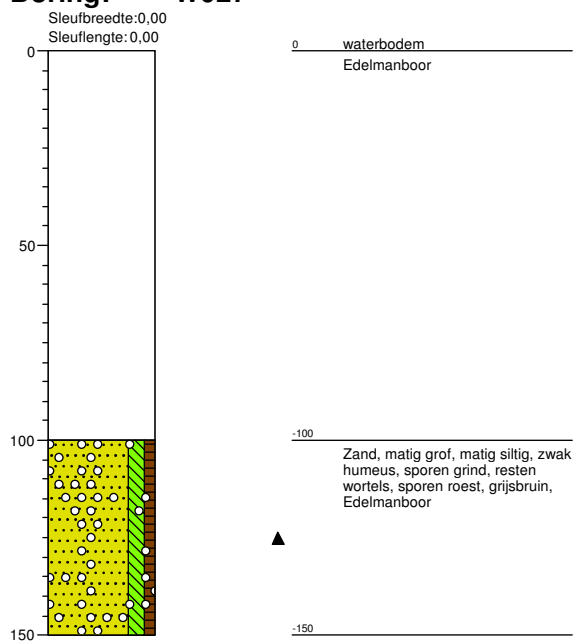
Boring: W025



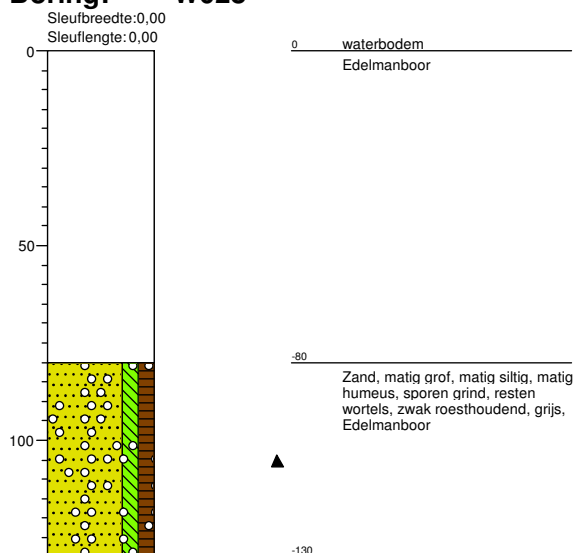
Boring: W026



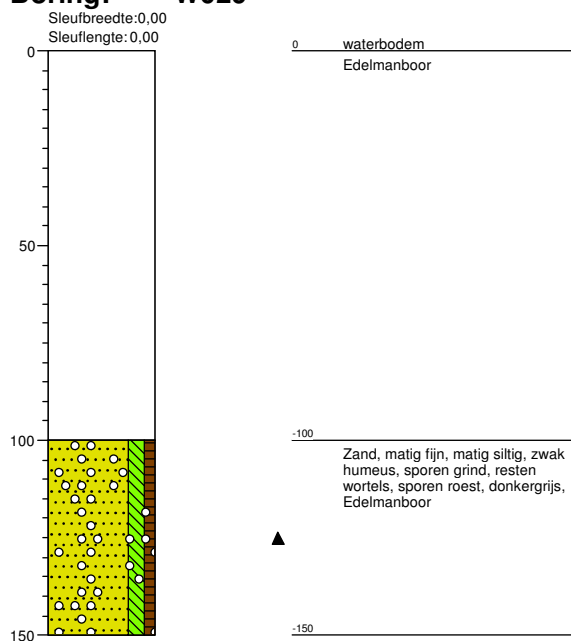
Boring: W027



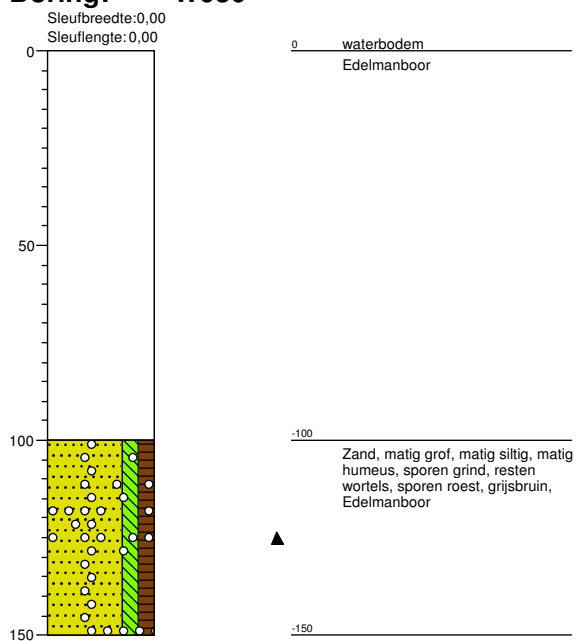
Boring: W028



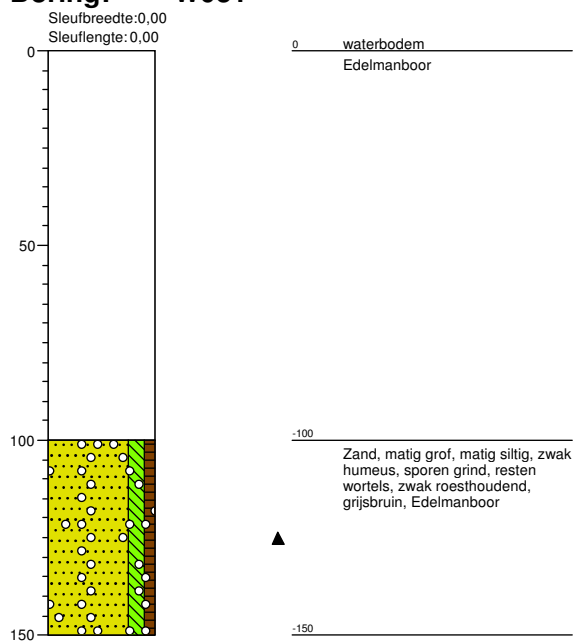
Boring: W029



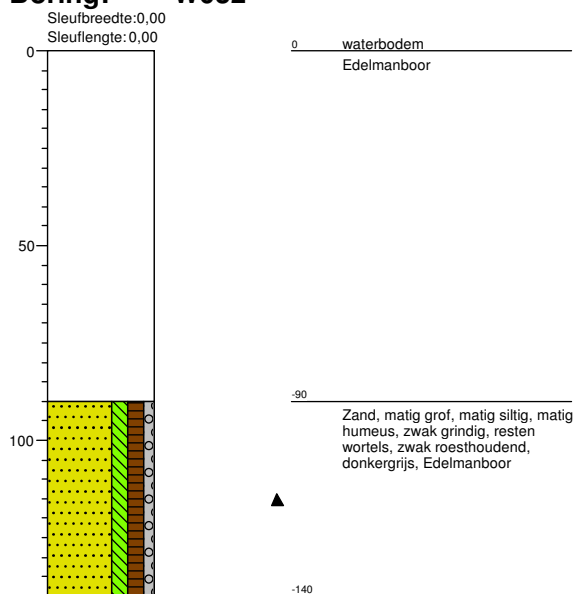
Boring: W030



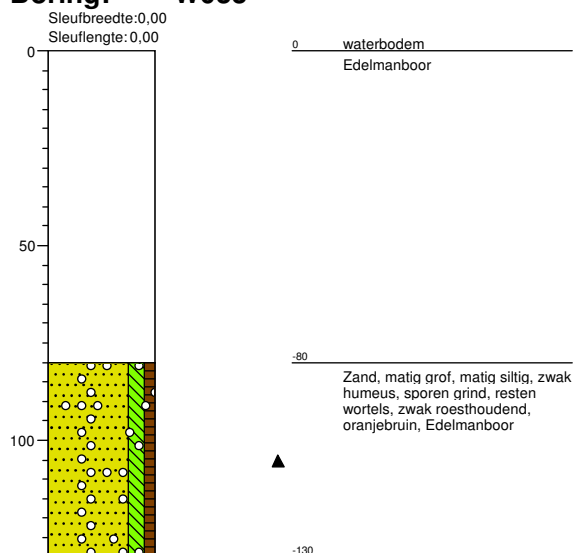
Boring: W031



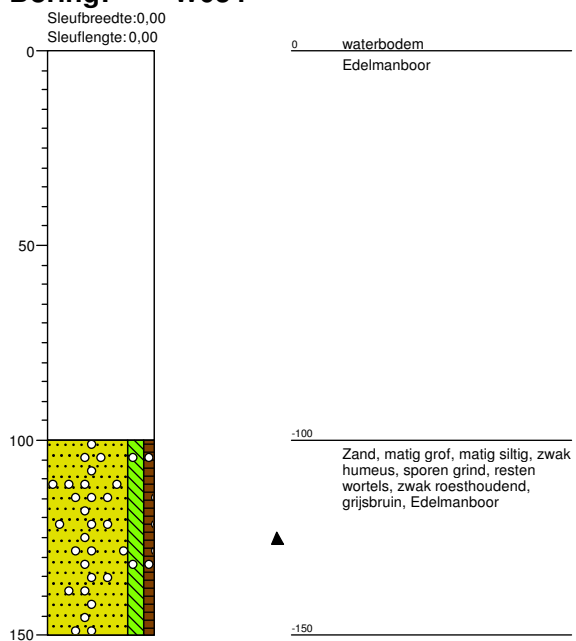
Boring: W032



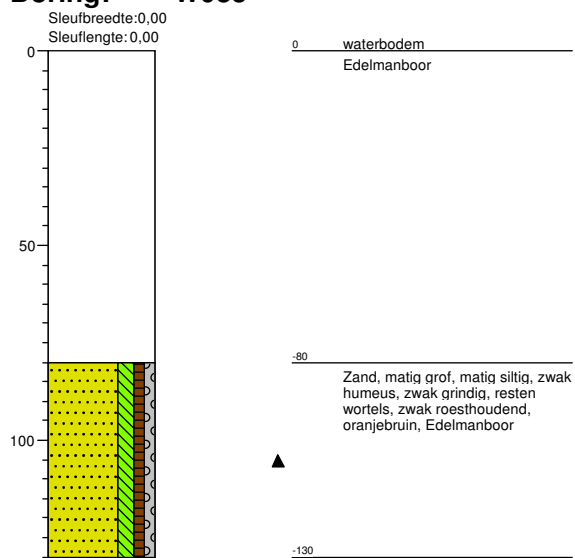
Boring: W033



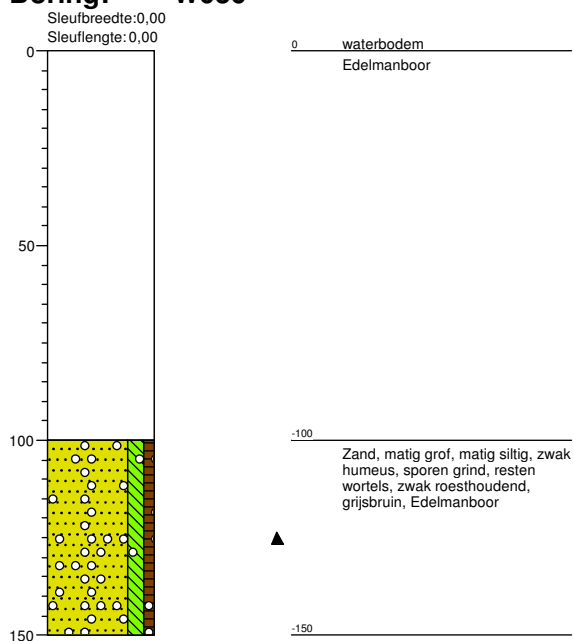
Boring: W034



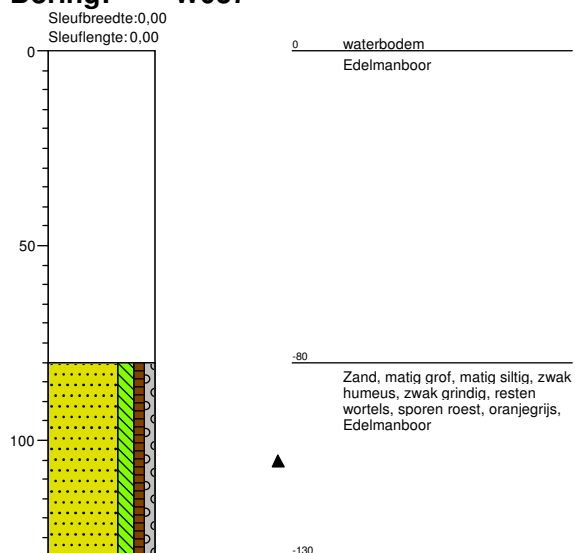
Boring: W035



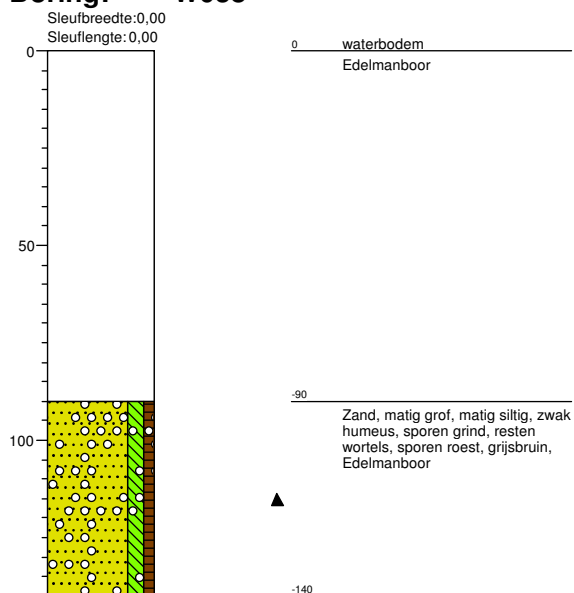
Boring: W036



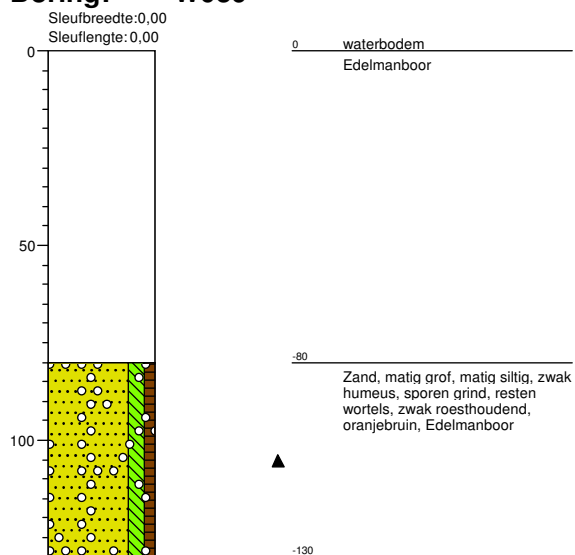
Boring: W037



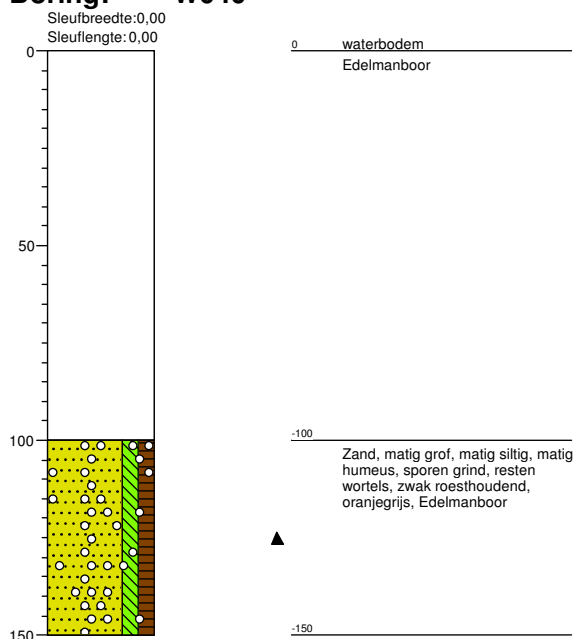
Boring: W038



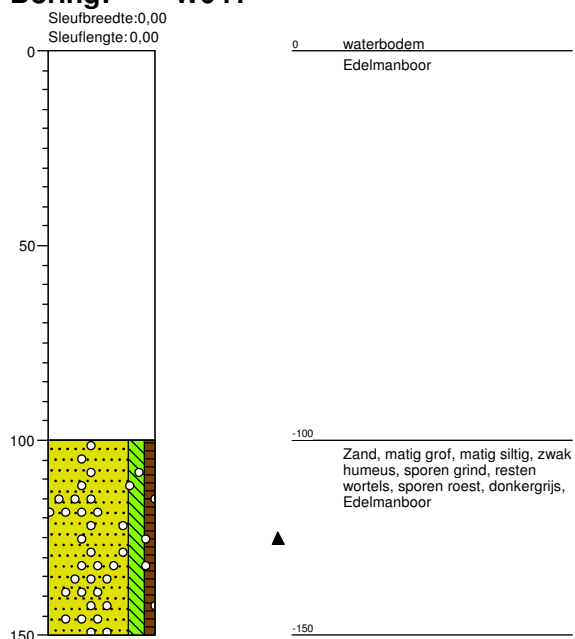
Boring: W039



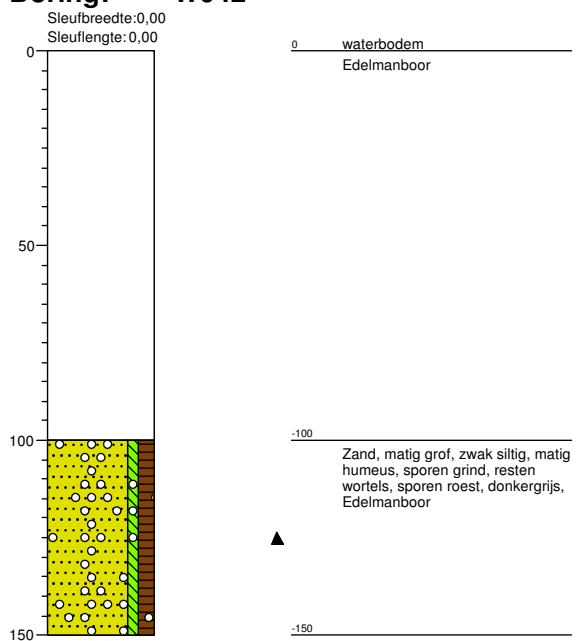
Boring: W040



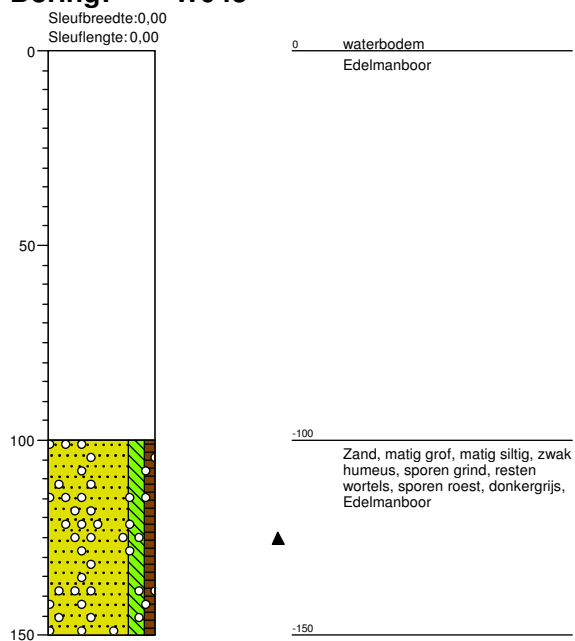
Boring: W041



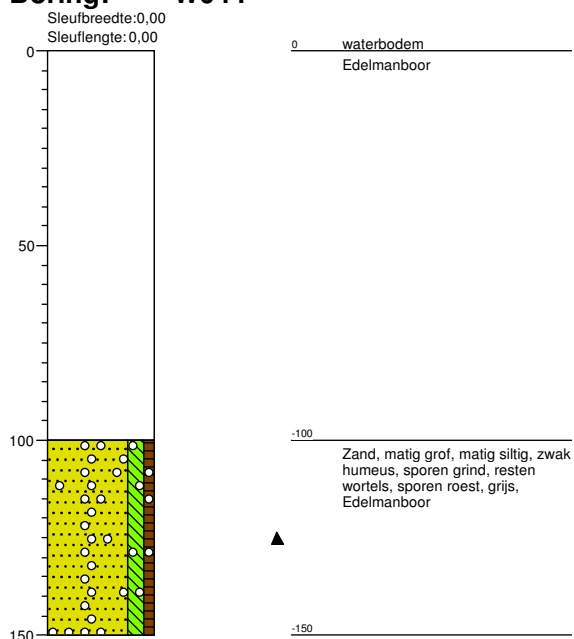
Boring: W042



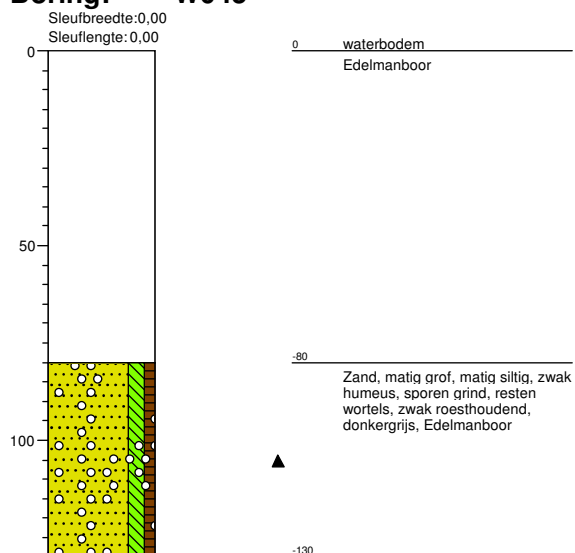
Boring: W043



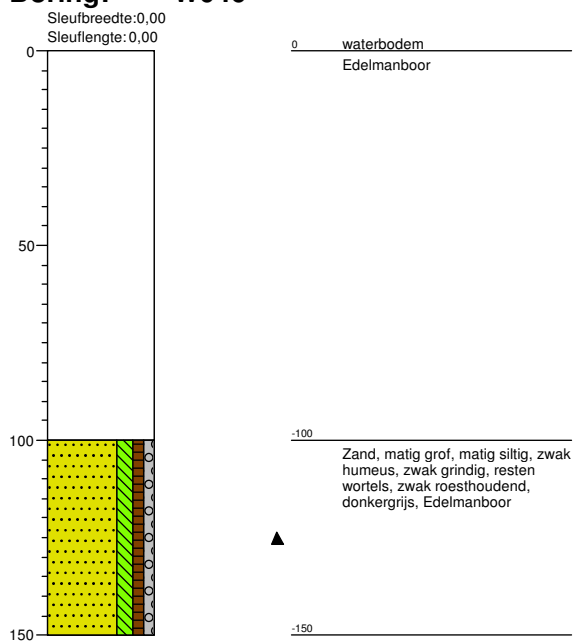
Boring: W044



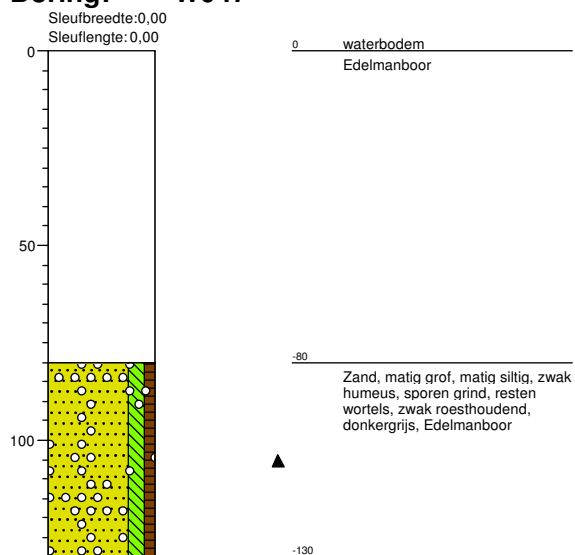
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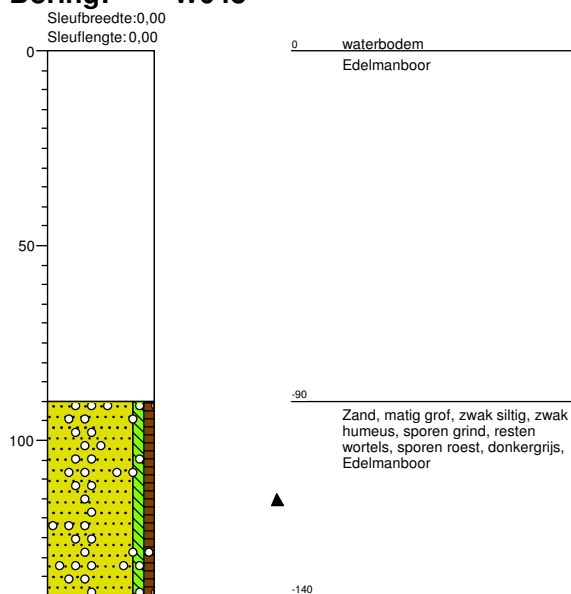
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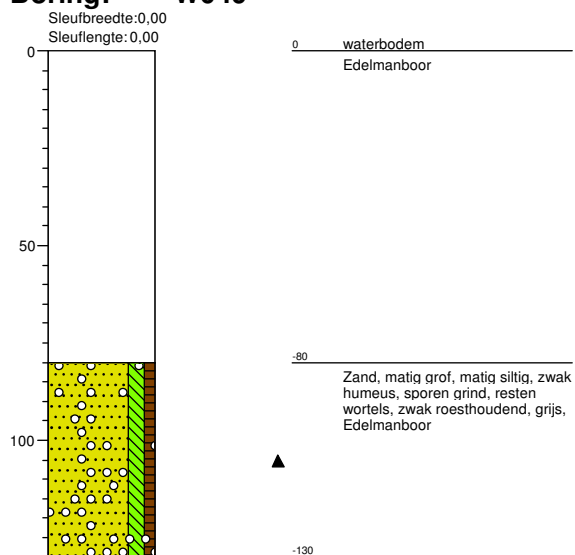
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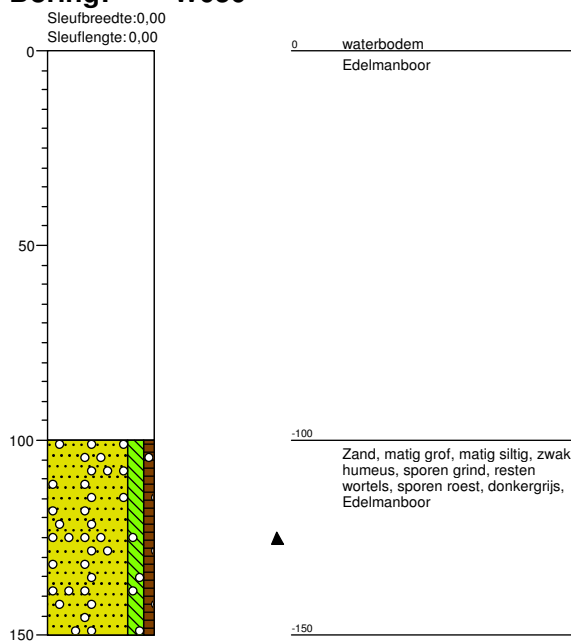
Boring: W048



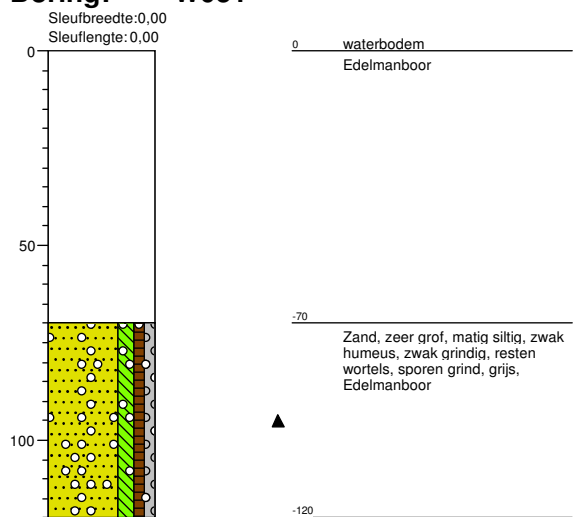
Boring: W049



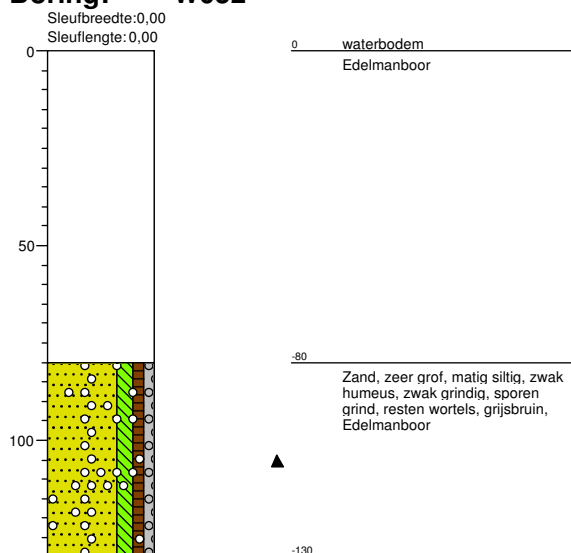
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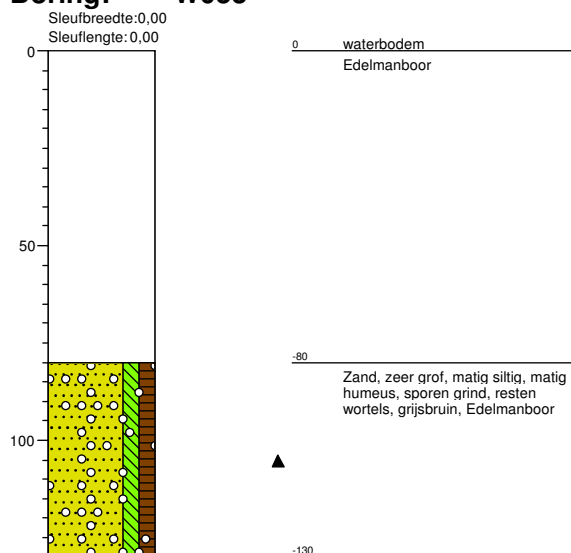
Boring: W051



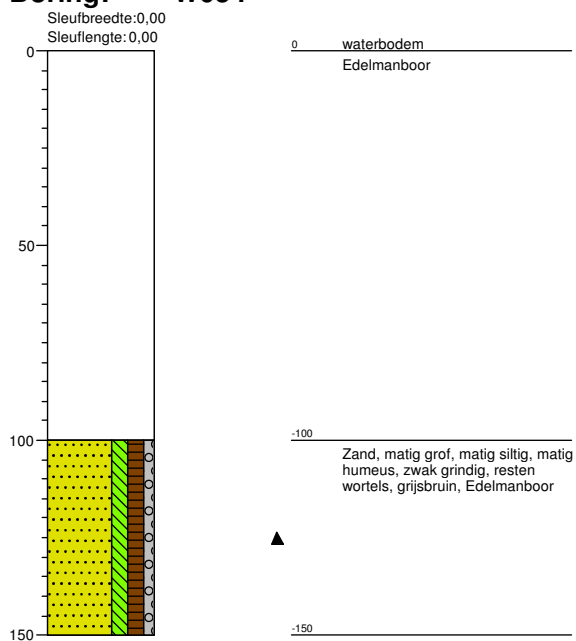
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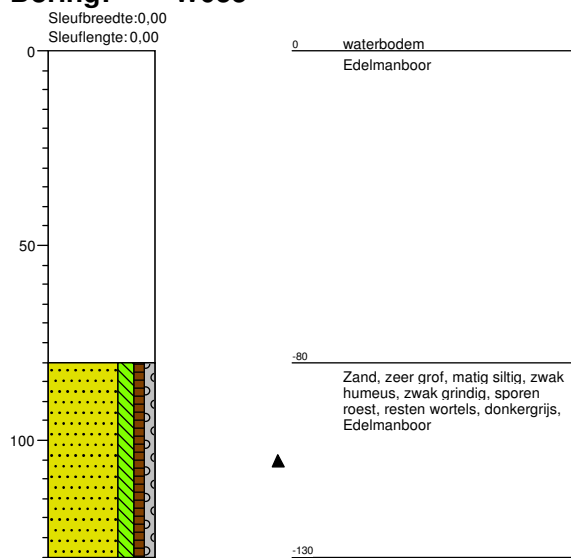
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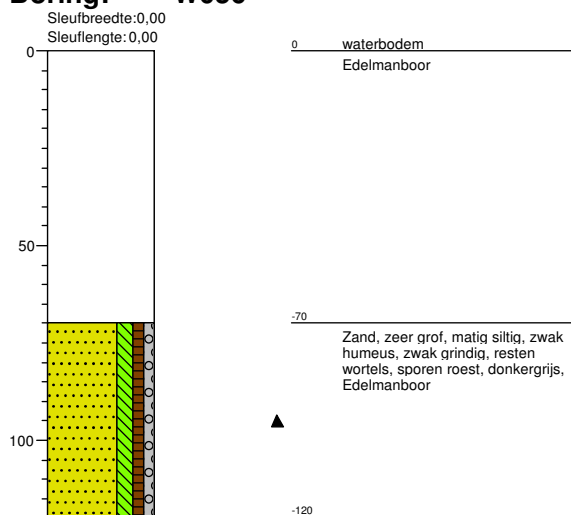
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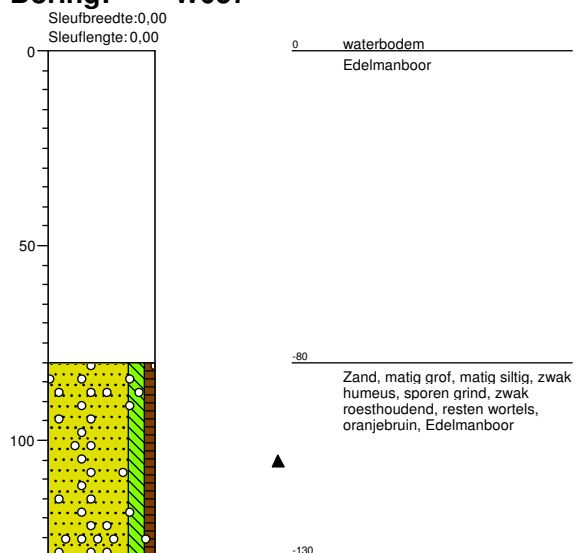
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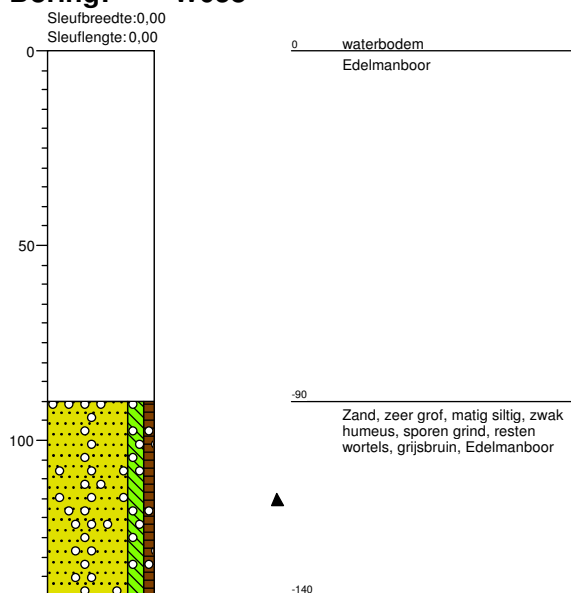
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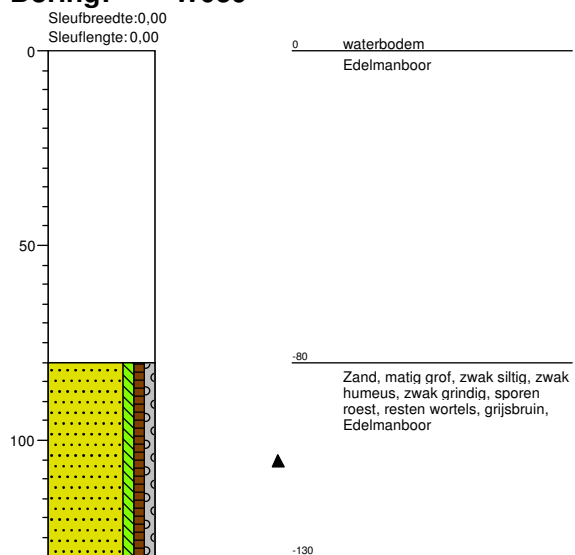
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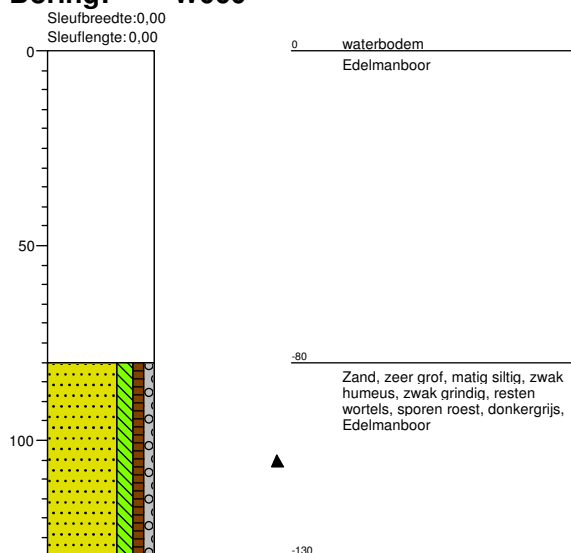
Boring: W058



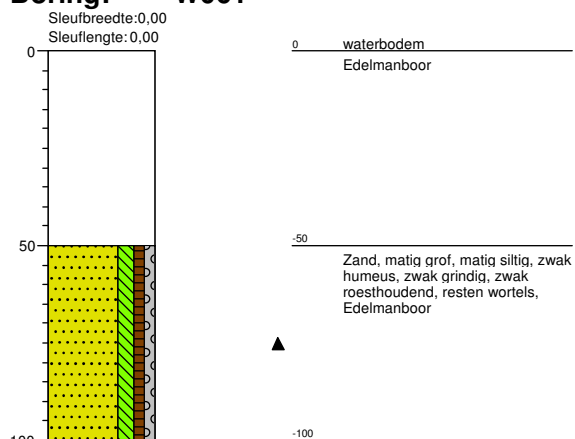
Boring: W059



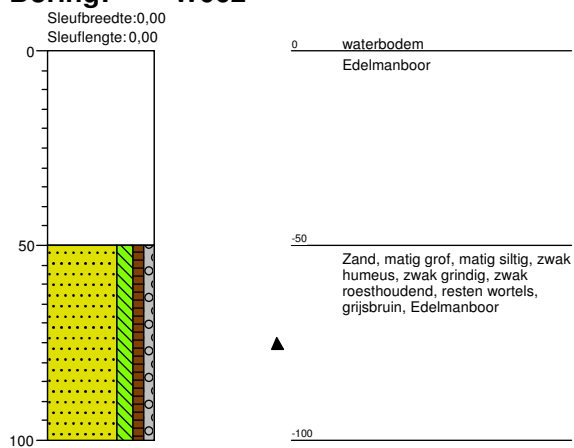
Boring: W060



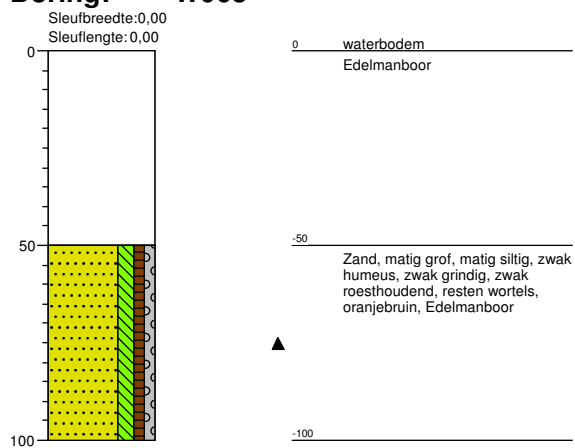
Boring: W061



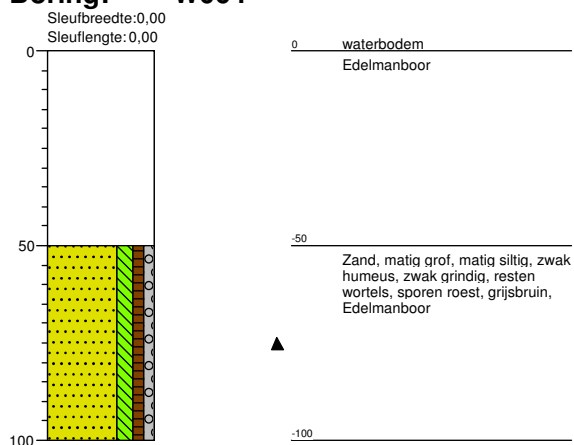
Boring: W062



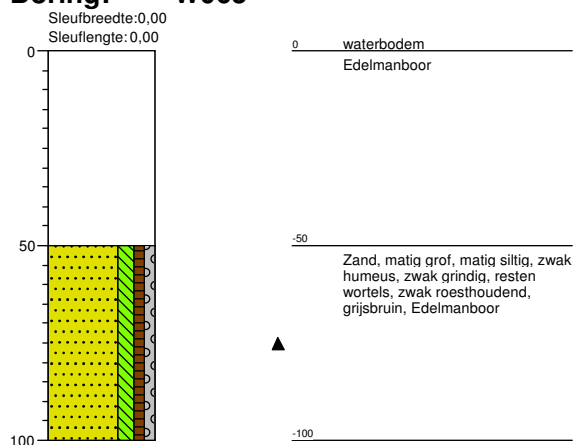
Boring: W063



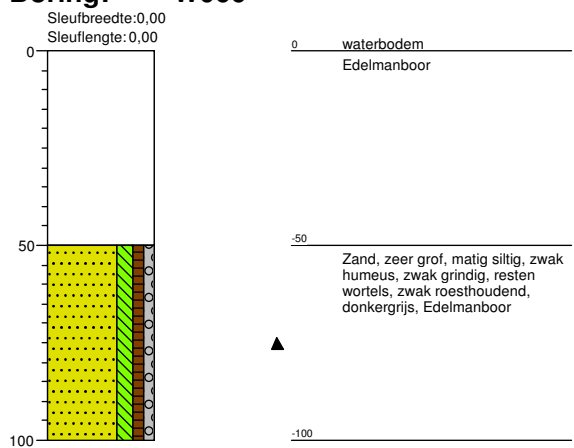
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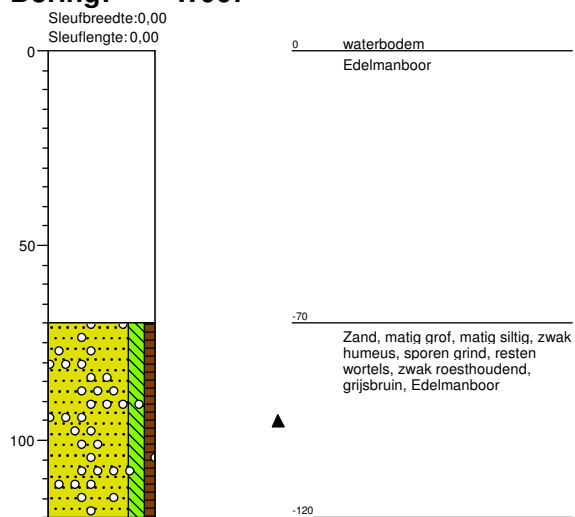
Boring: W065



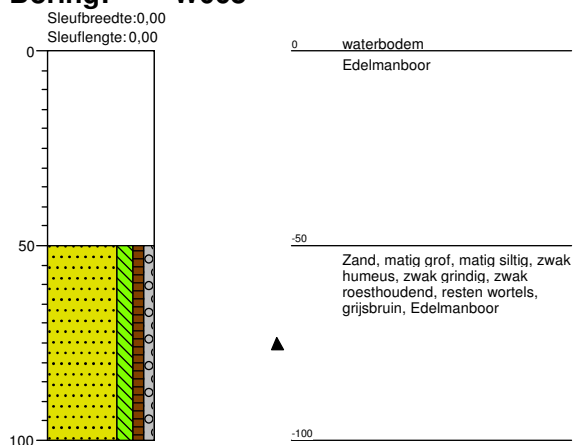
Boring: W066



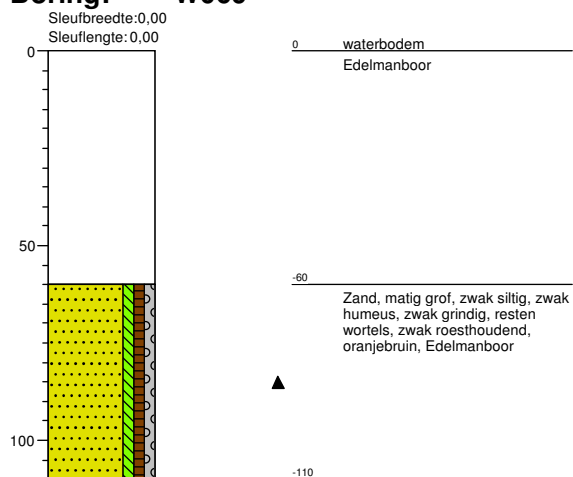
Boring: W067



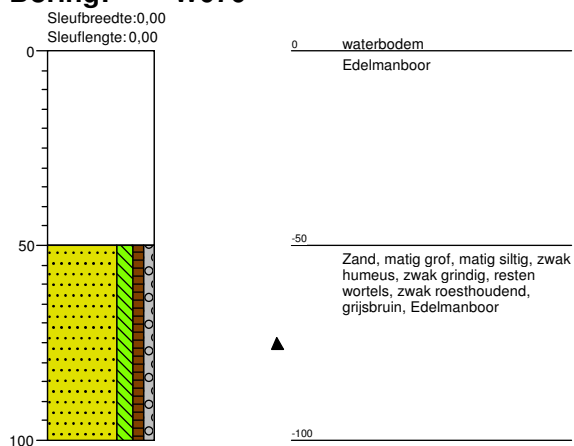
Boring: W068



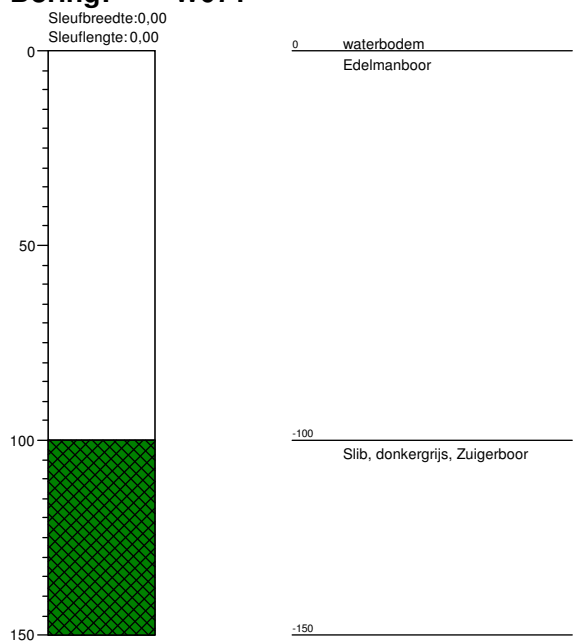
Boring: W069



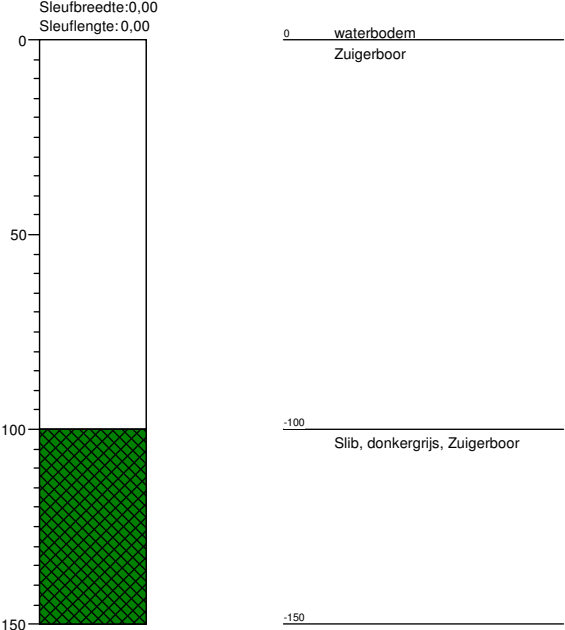
Boring: W070



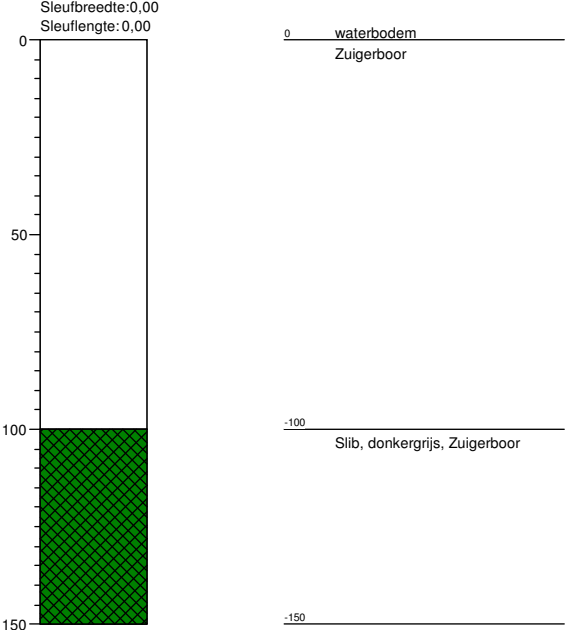
Boring: W071



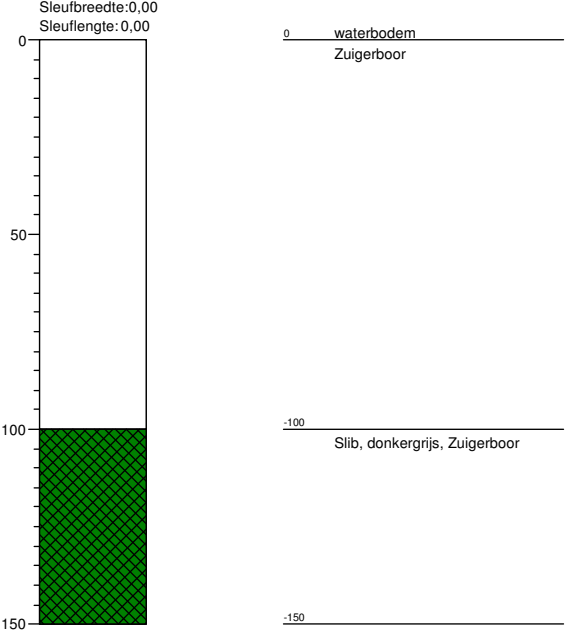
Boring: W072



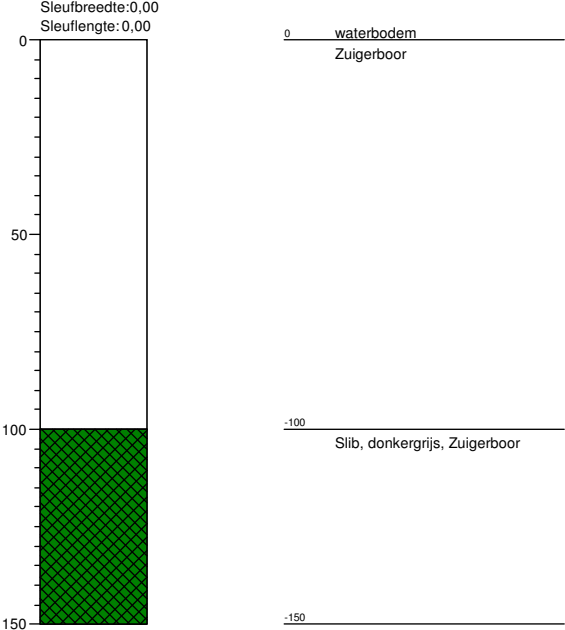
Boring: W073



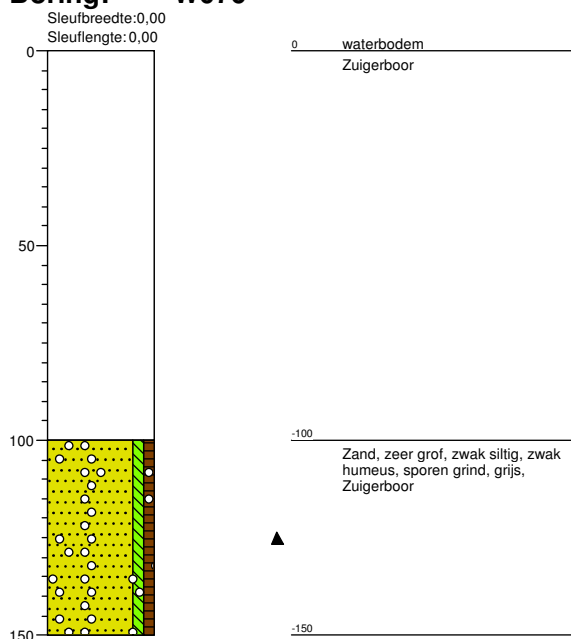
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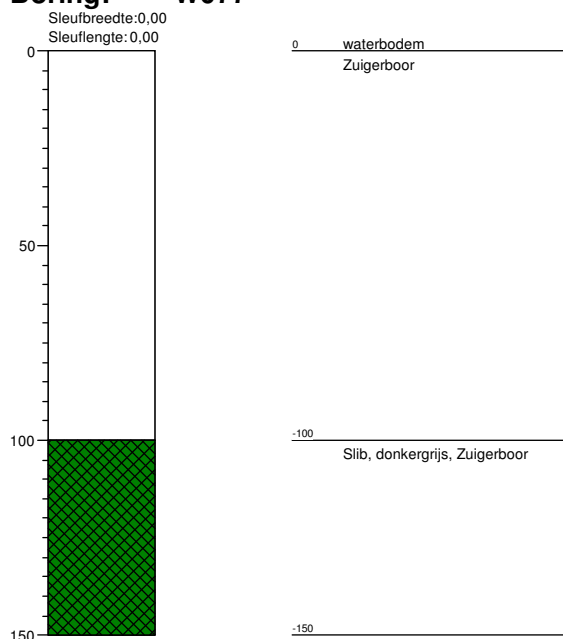
Boring: W075



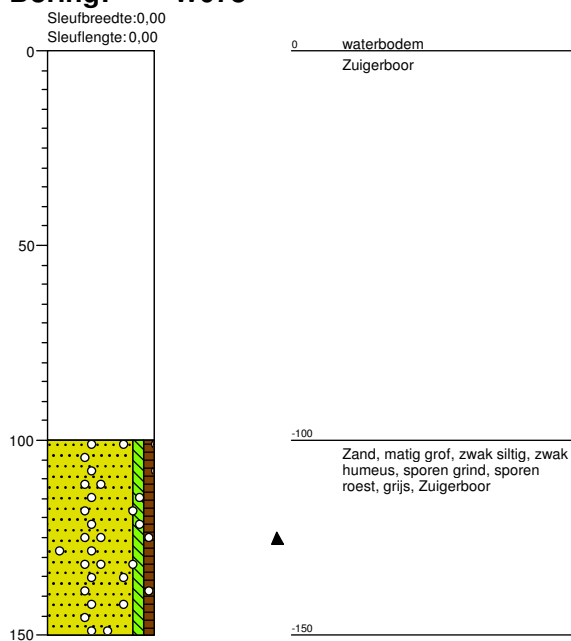
Boring: W076



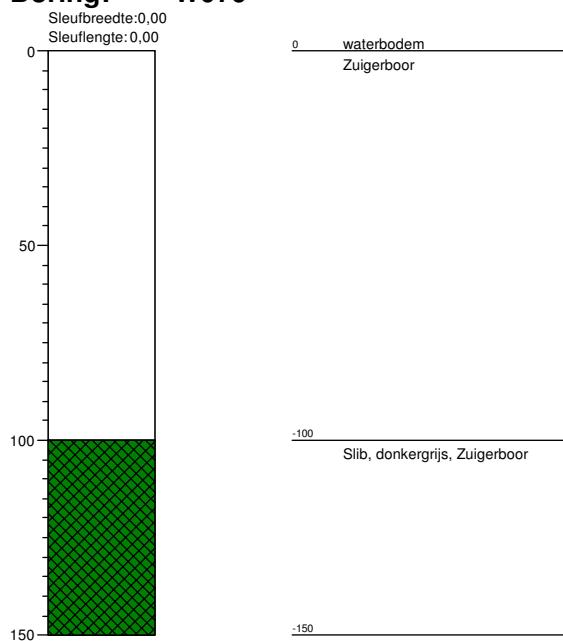
Boring: W077



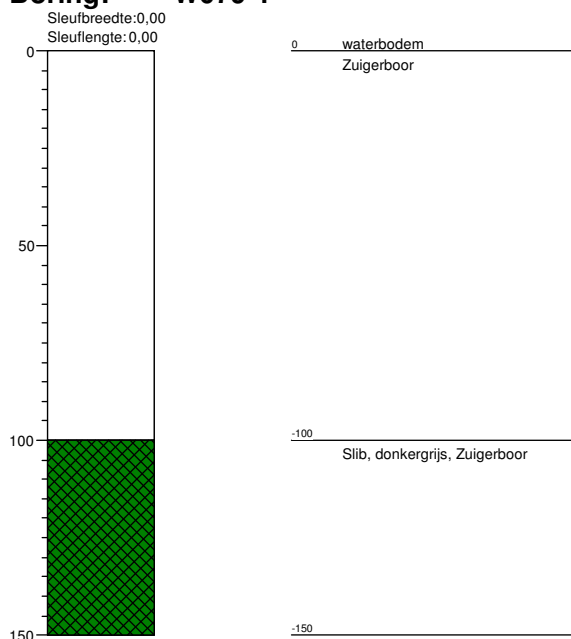
Boring: W078



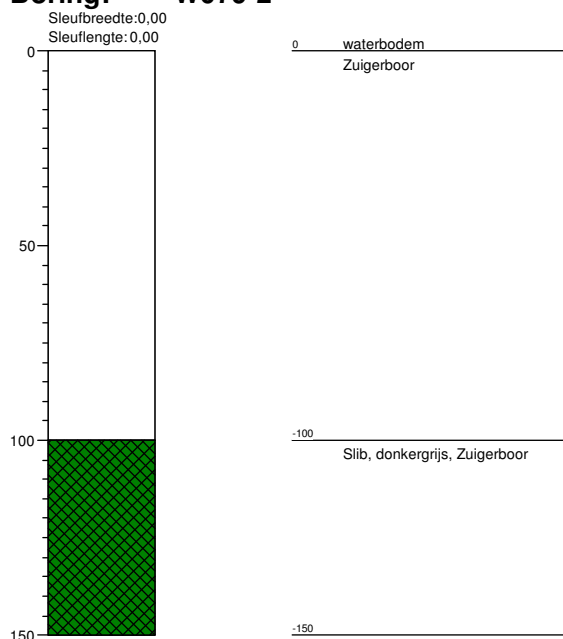
Boring: W079



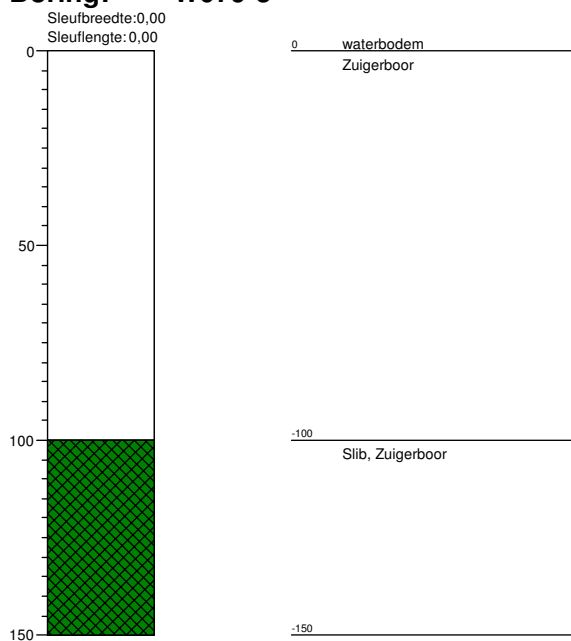
Boring: W079-1



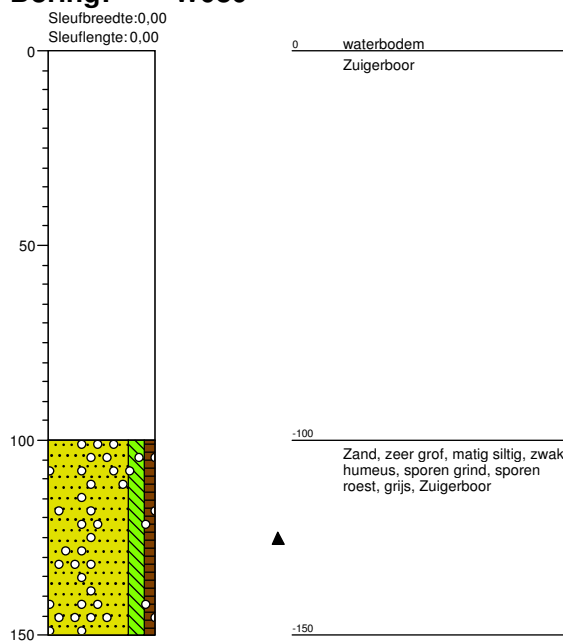
Boring: W079-2



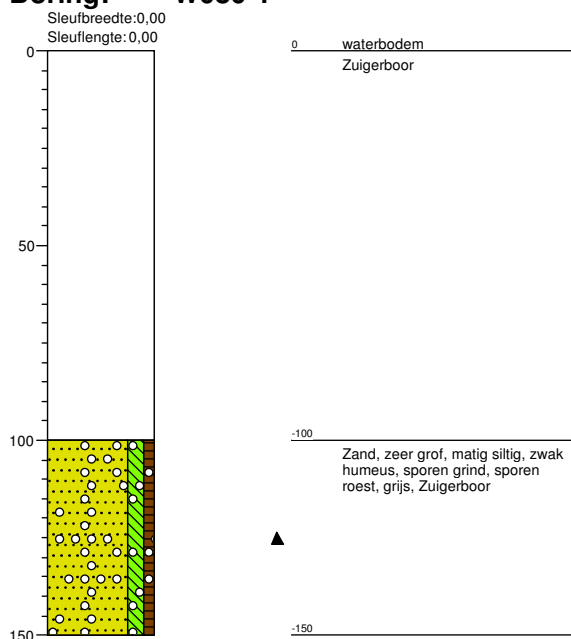
Boring: W079-3



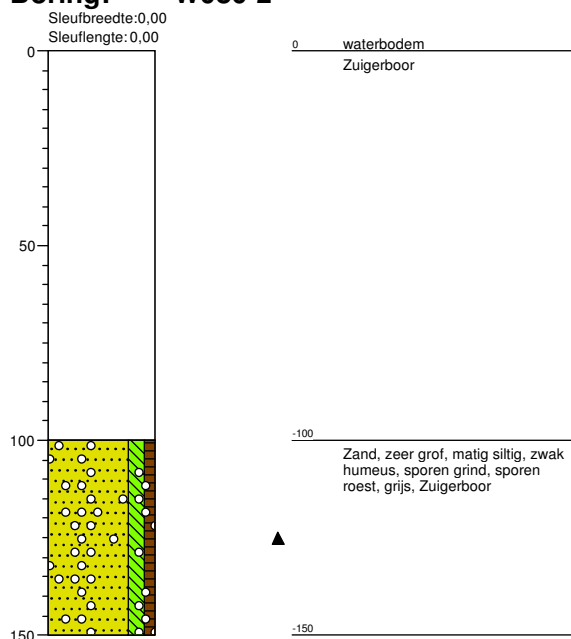
Boring: W080



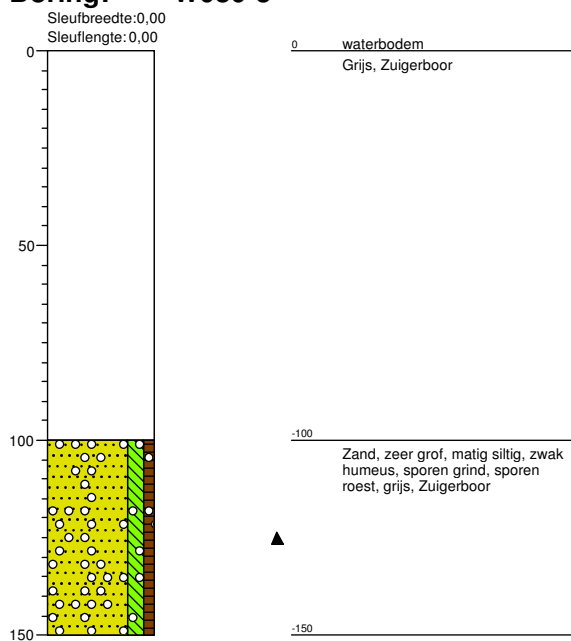
Boring: W080-1



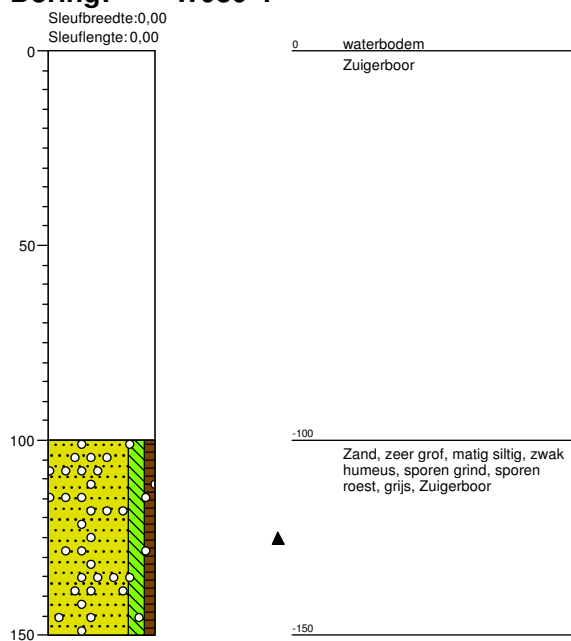
Boring: W080-2



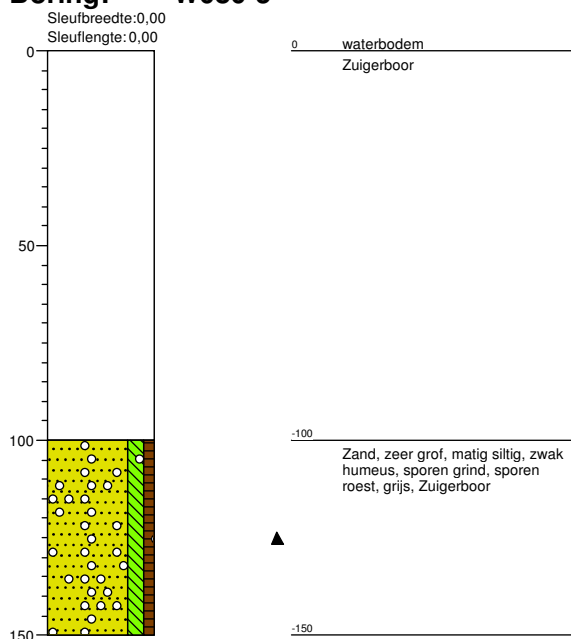
Boring: W080-3



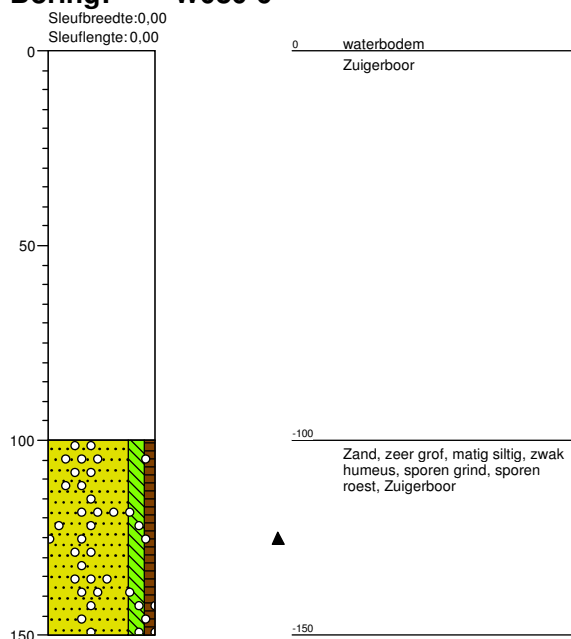
Boring: W080-4



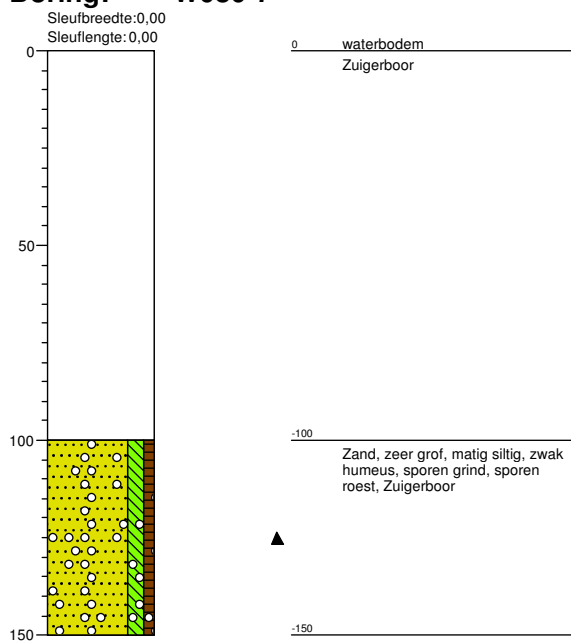
Boring: W080-5



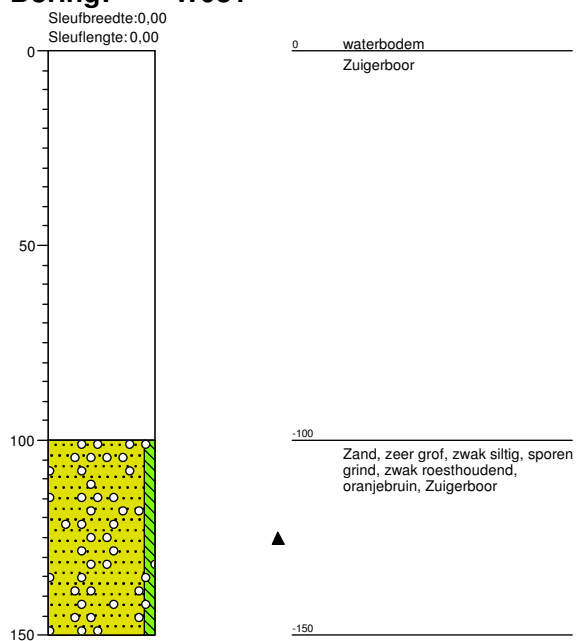
Boring: W080-6



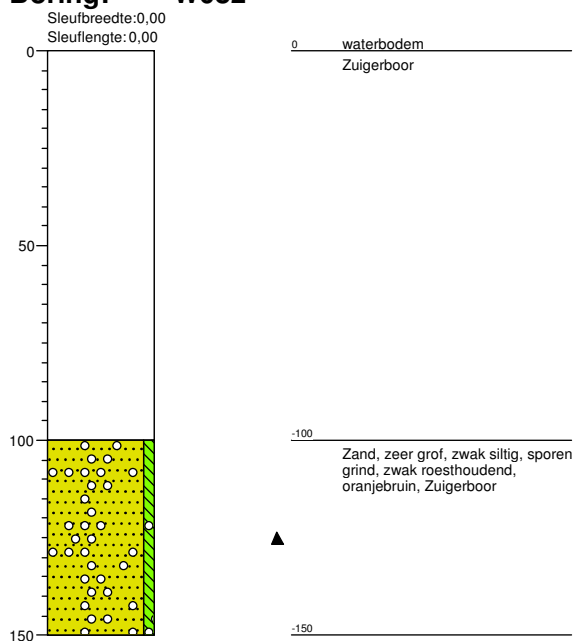
Boring: W080-7



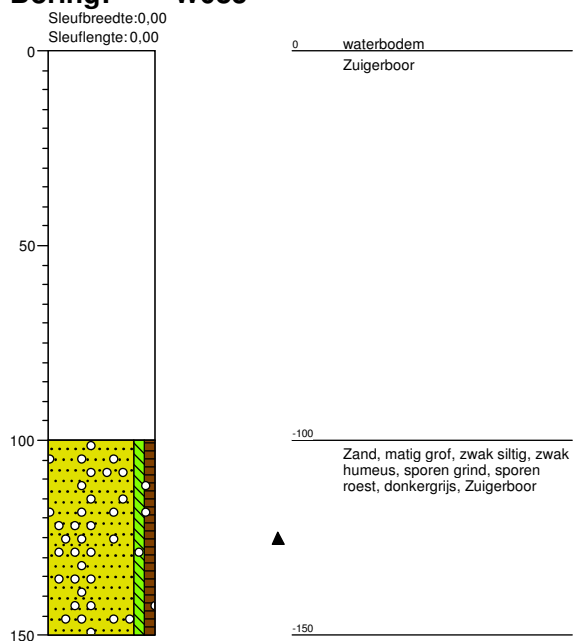
Boring: W081



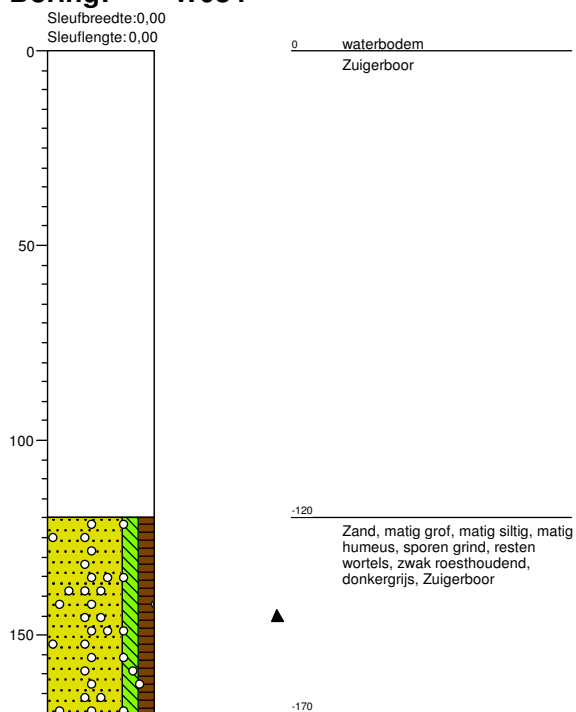
Boring: W082



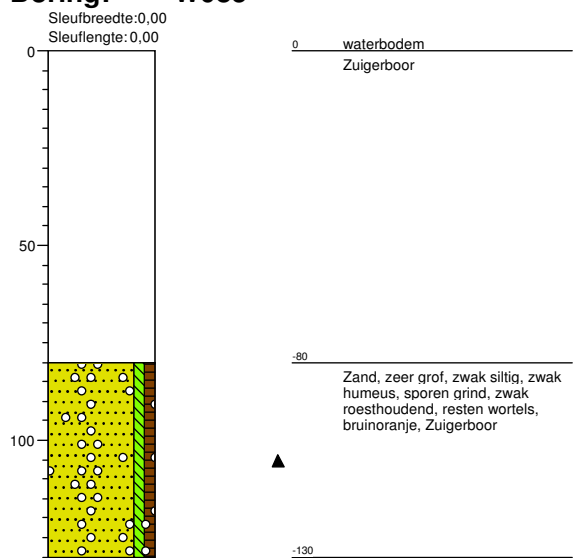
Boring: W083



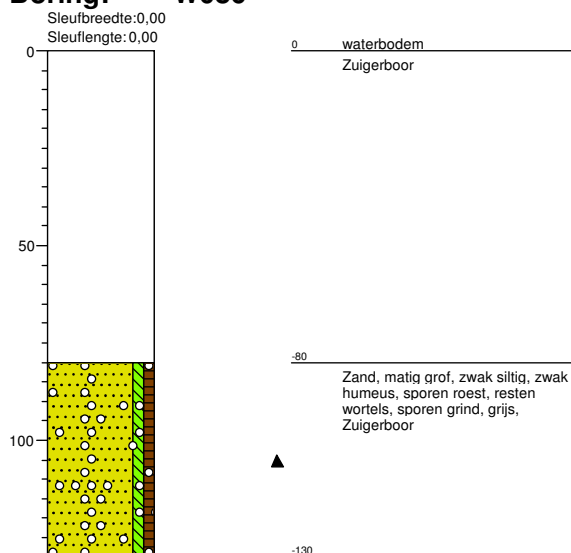
Boring: W084



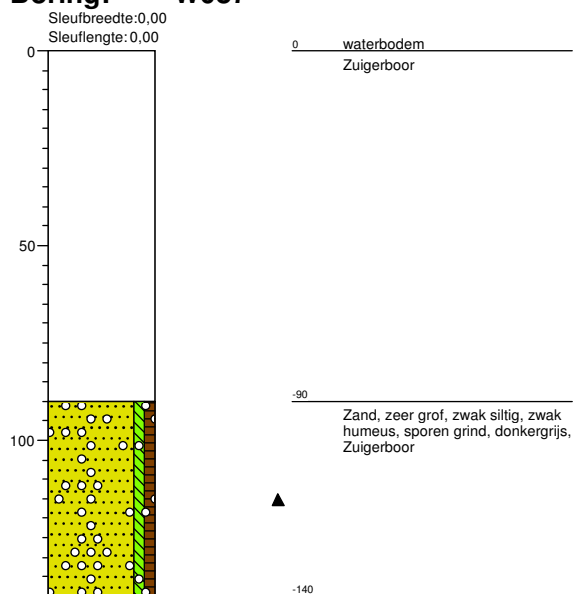
Boring: W085



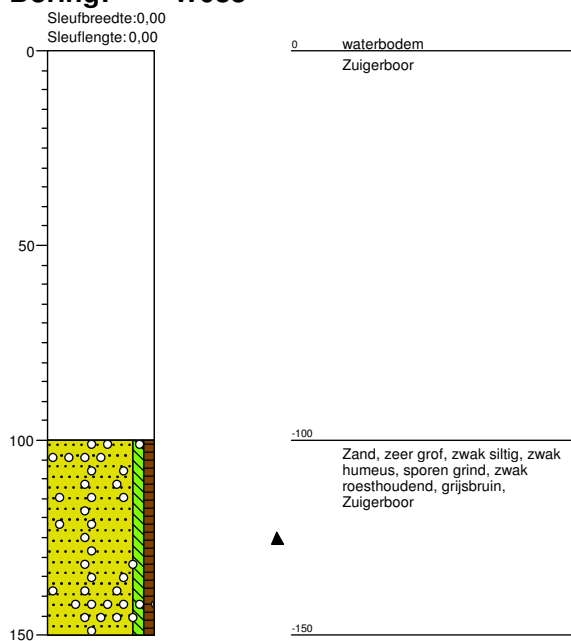
Boring: W086



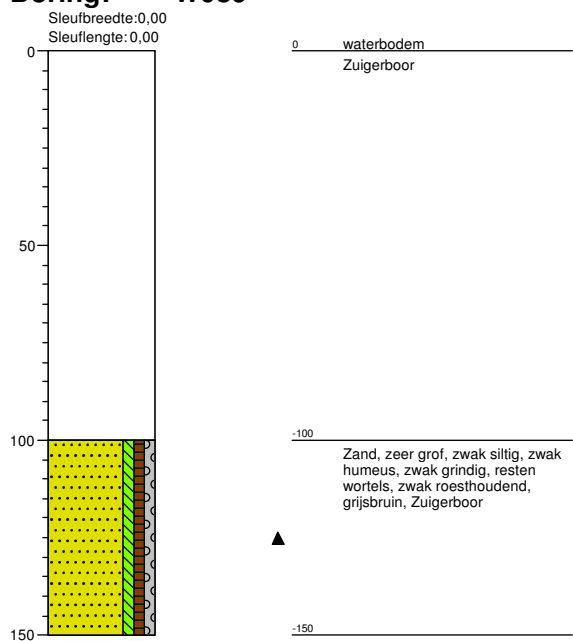
Boring: W087



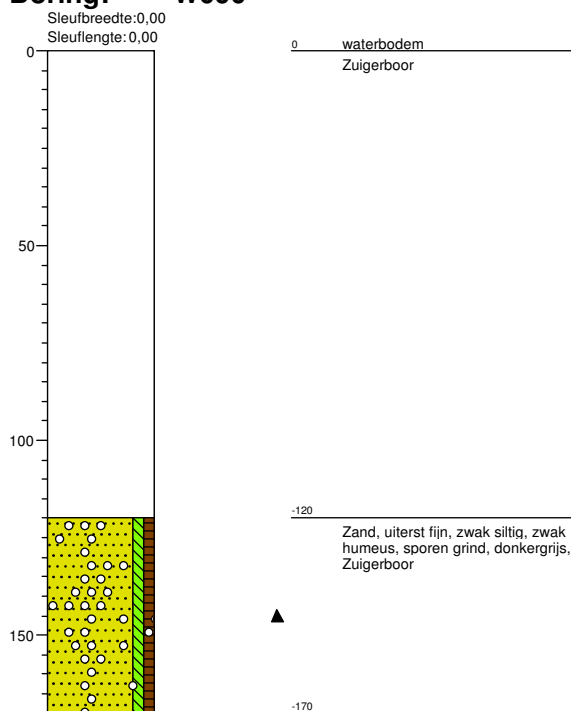
Boring: W088



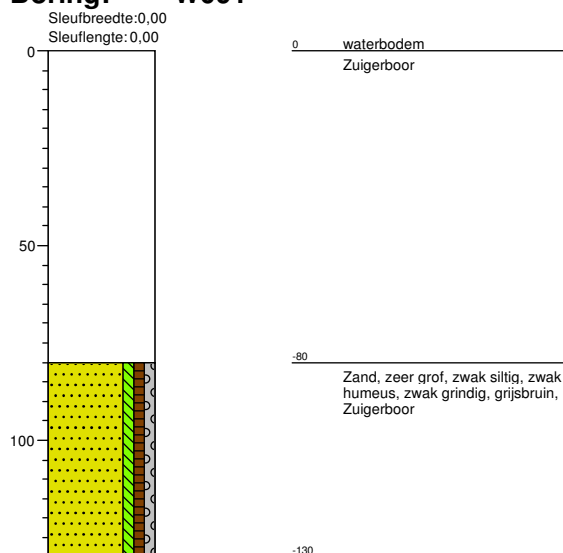
Boring: W089



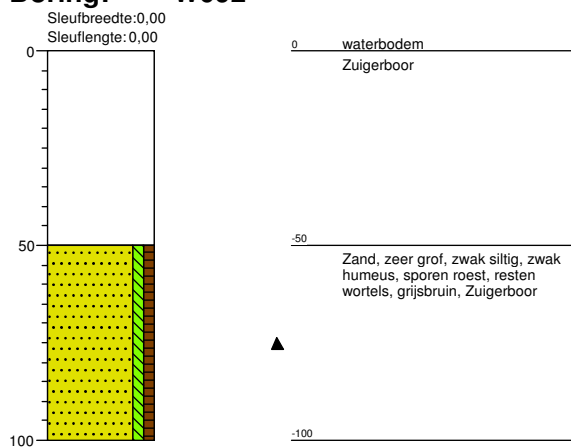
Boring: W090



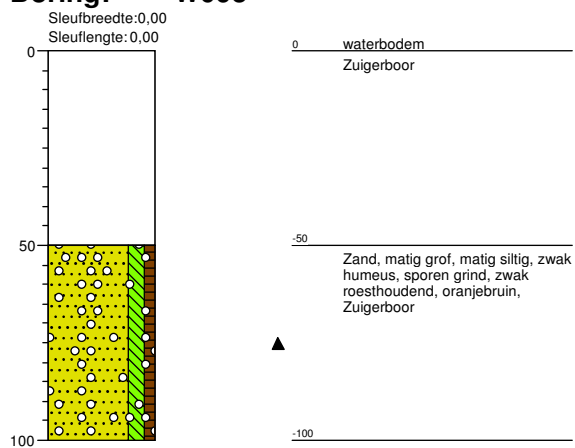
Boring: W091



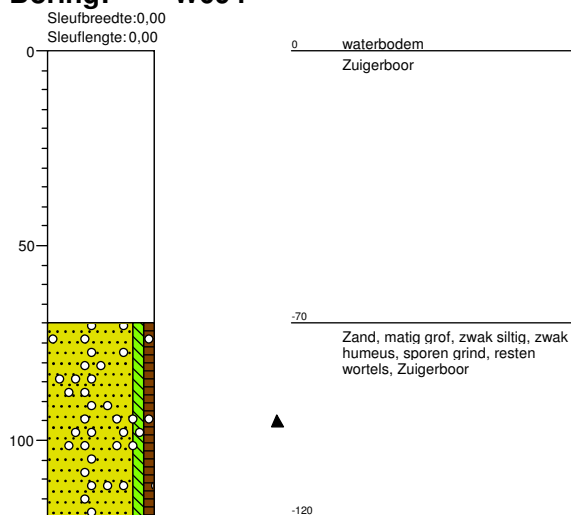
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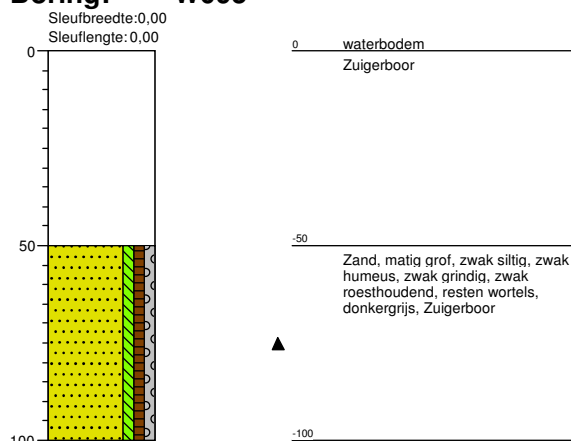
Boring: W093



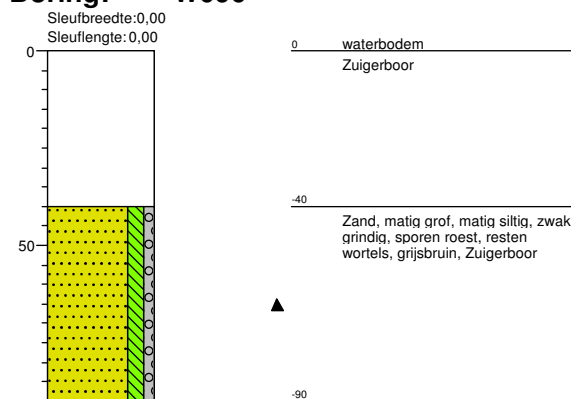
Boring: W094



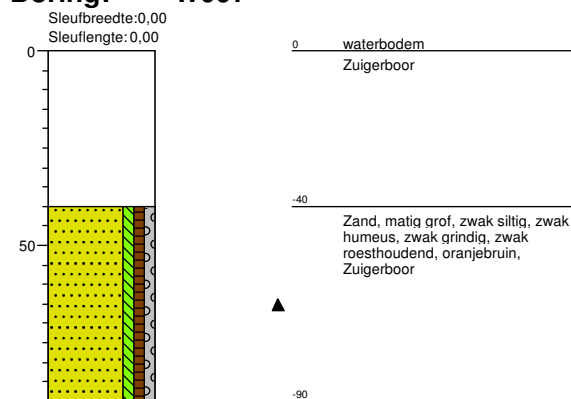
Boring: W095



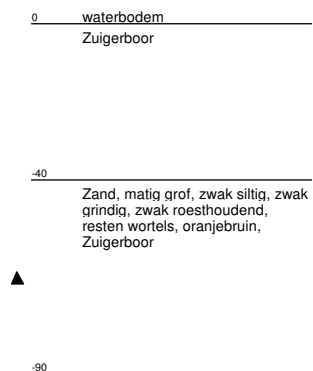
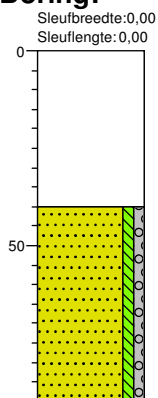
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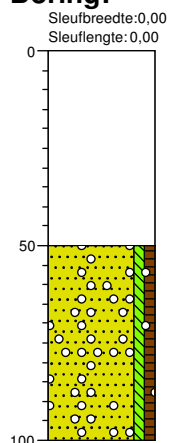
Boring: W097



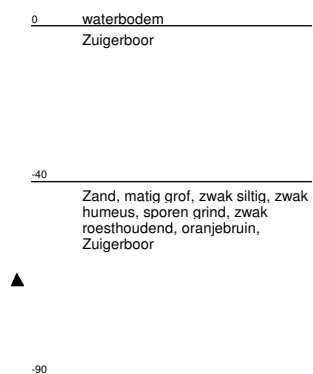
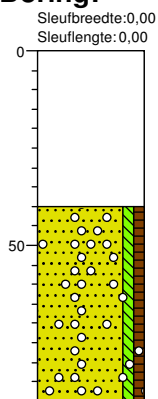
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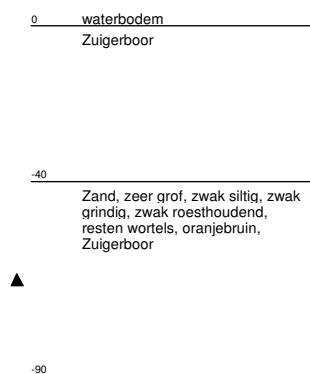
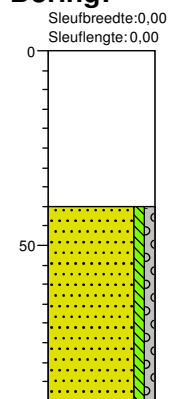
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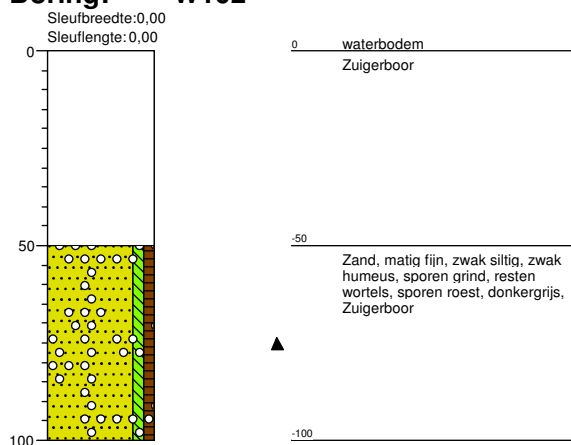
Boring: W100



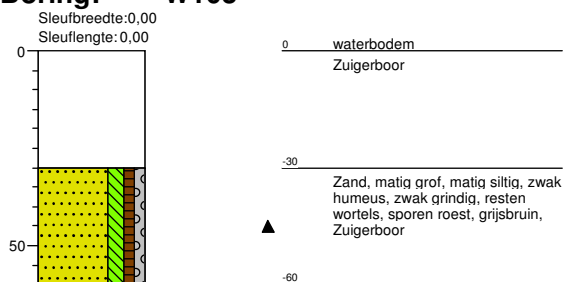
Boring: W101



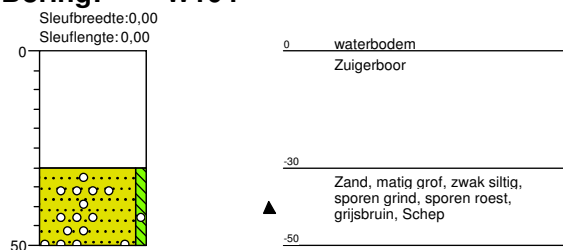
Boring: W102



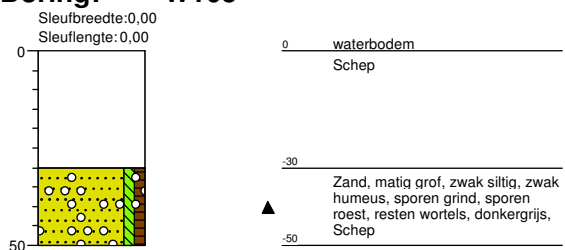
Boring: W103



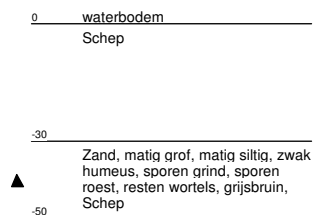
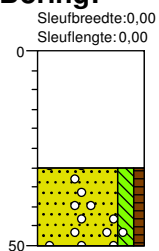
Boring: W104



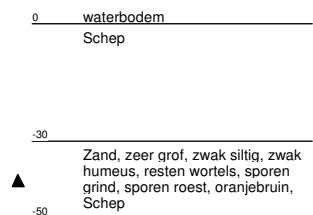
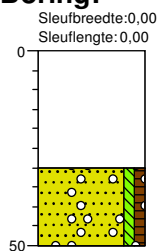
Boring: W105



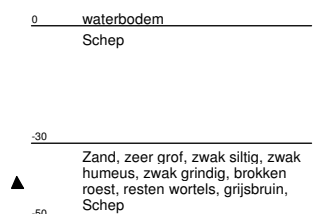
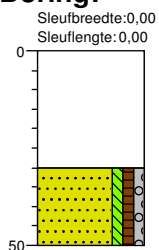
Boring: W106



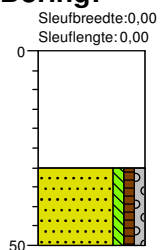
Boring: W107



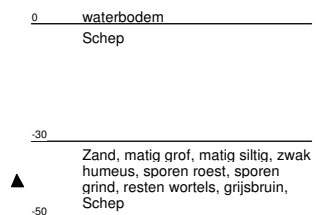
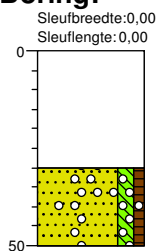
Boring: W108



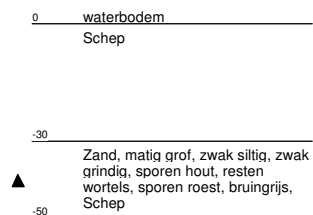
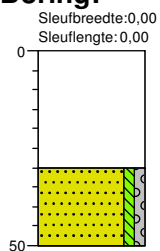
Boring: W109



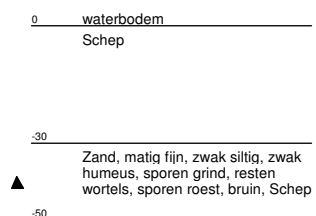
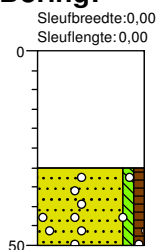
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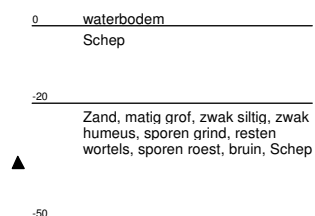
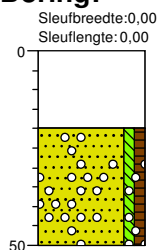
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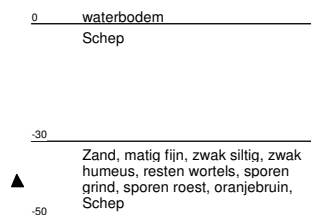
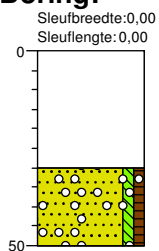
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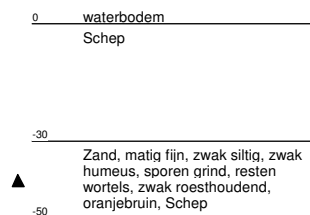
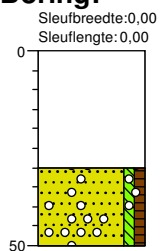
Boring: W113



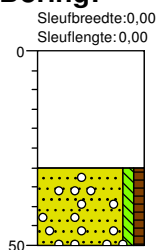
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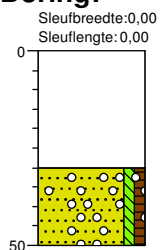
Boring: W115



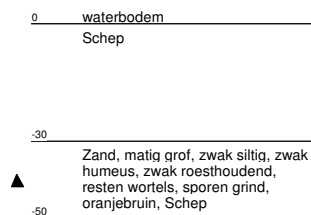
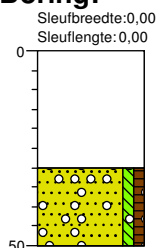
Boring: W116



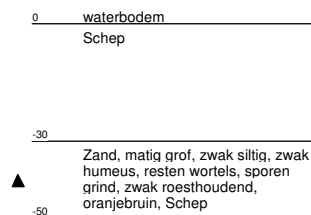
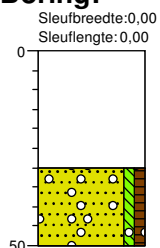
Boring: W117



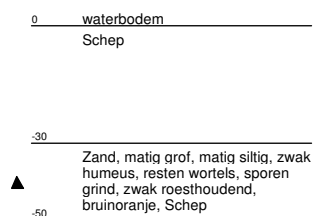
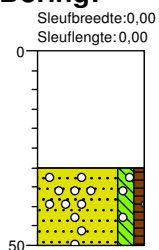
Boring: W118



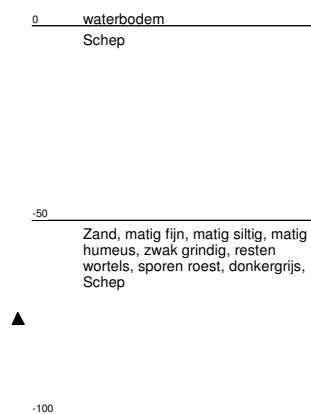
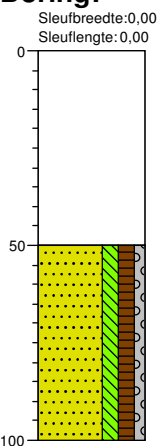
Boring: W119



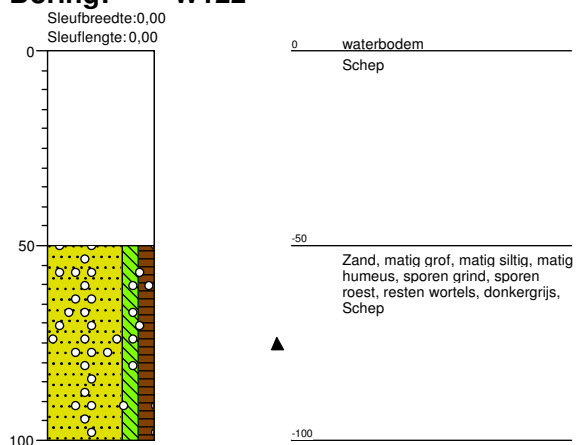
Boring: W120



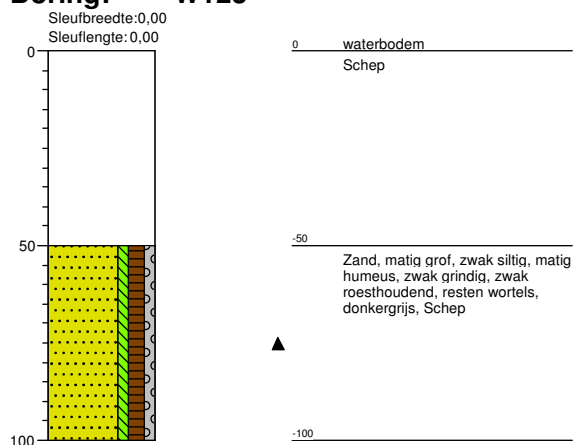
Boring: W121



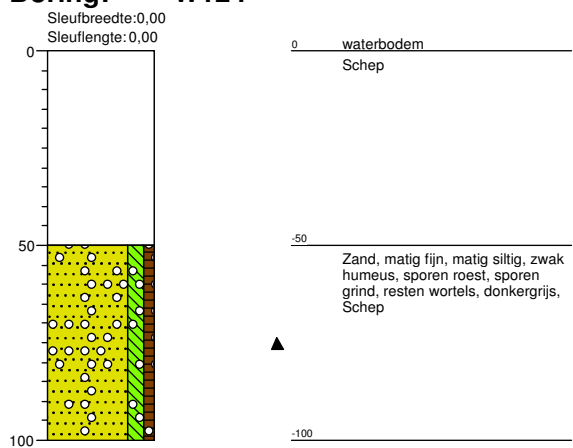
Boring: W122



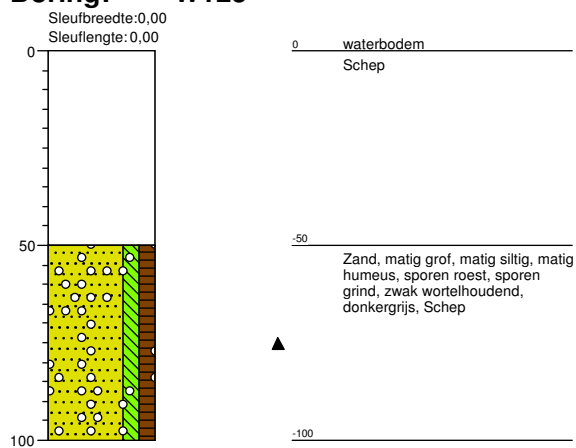
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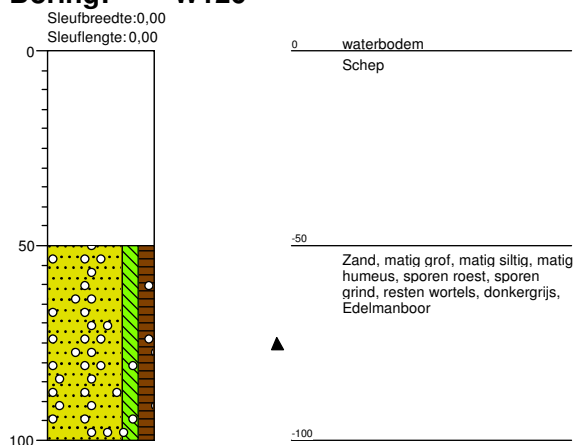
Boring: W124



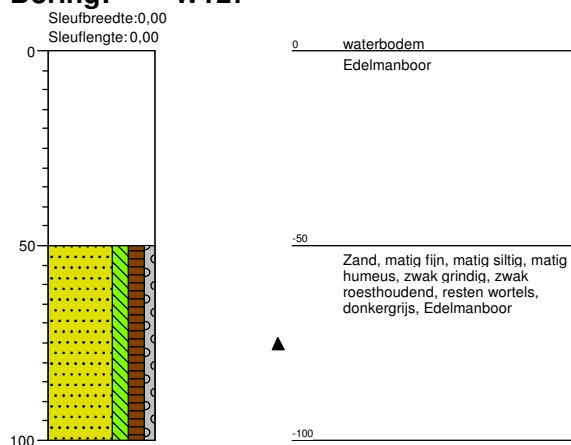
Boring: W125



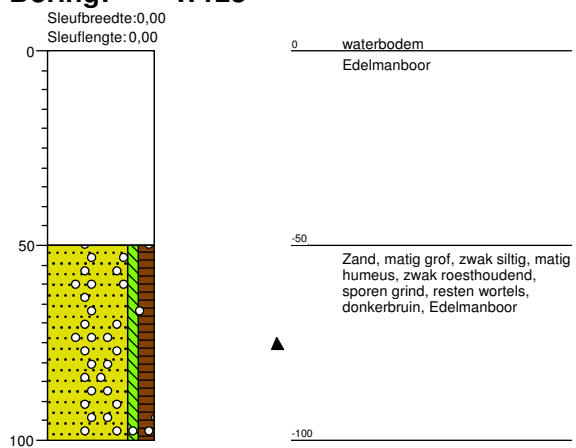
Boring: W126



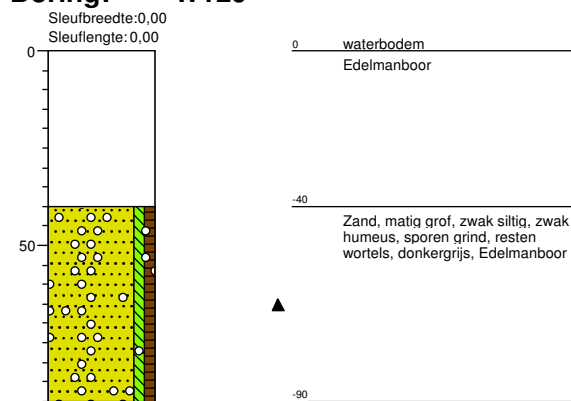
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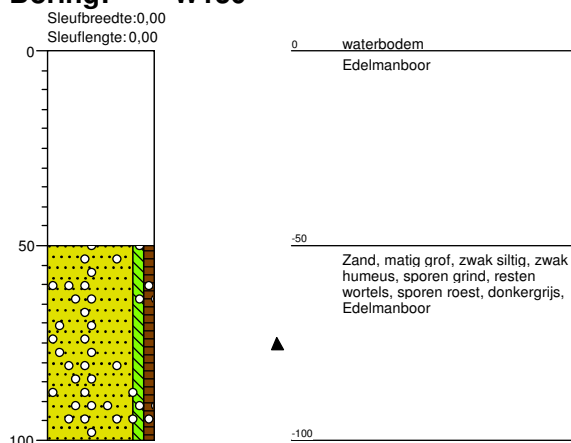
Boring: W128



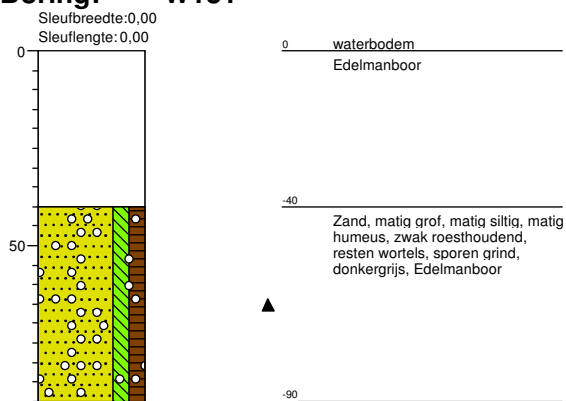
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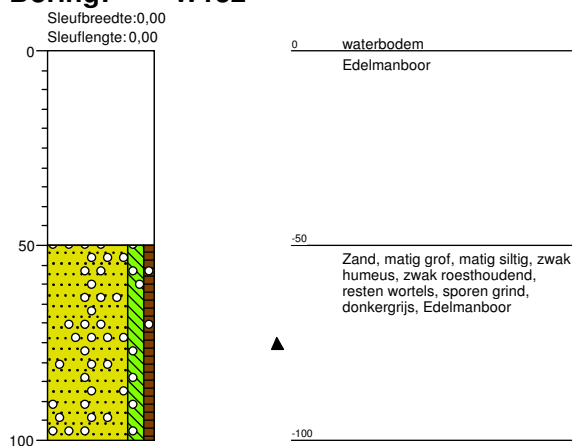
Boring: W130



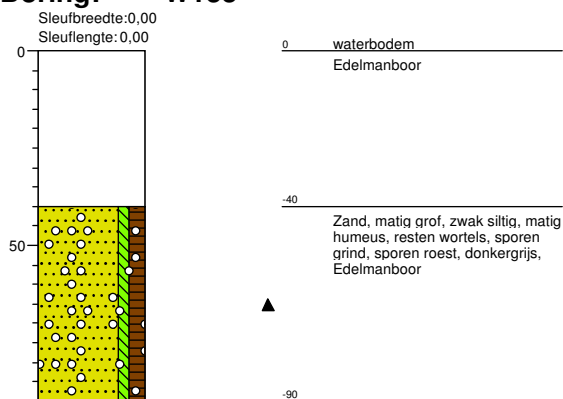
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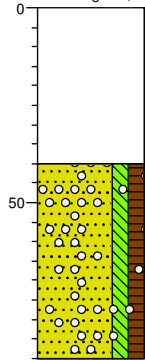
Boring: W132



Boring: W133



Sleufbreedte: 0,00
Sleuflengte: 0,00



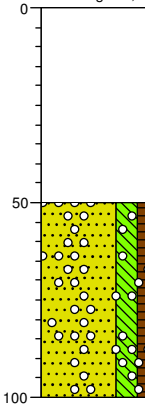
0 waterbodem
Edelmanboor

Zand, matig grof, matig siltig, matig humeus, sporen grind, resten wortels, zwak roesthoudend, donkergrijs, Edelmanboor



-90

Sleufbreedte: 0,00
Sleuflengte: 0,00



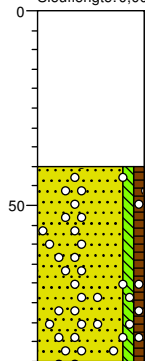
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Edelmanboor

Zand, zeer grof, sterk siltig, zwak humeus, sporen roest, sporen grind, resten wortels, donkergrijs, Edelmanboor



-100

Sleufbreedte:0,00
Sleuflengte: 0,00



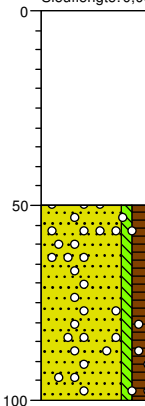
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Edelmanboor

Zand, matig grof, zwak siltig, zwak humeus, sporen roest, sporen grind, resten wortels, donkergrijs, Edelmanboor



-90

Sleufbreedte: 0,00
Sleuflengte: 0,00



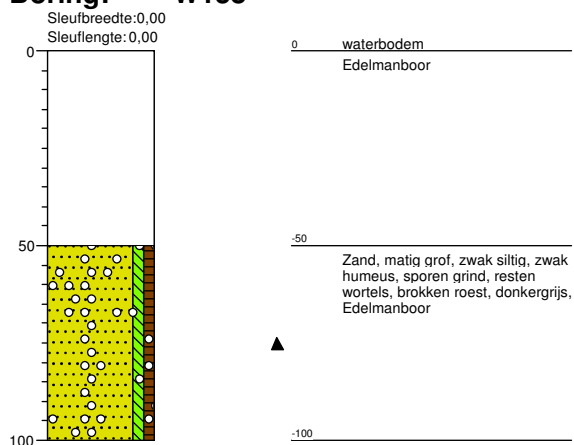
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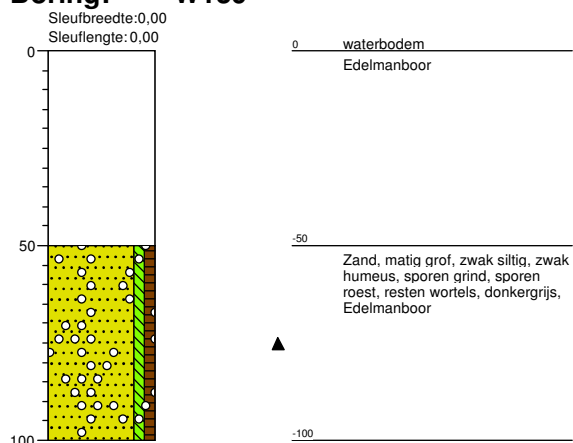


-100

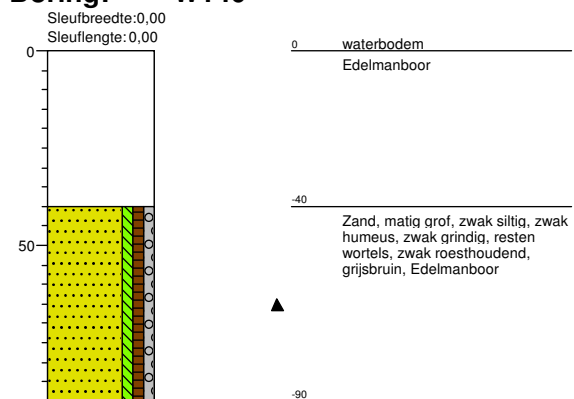
Boring: W138



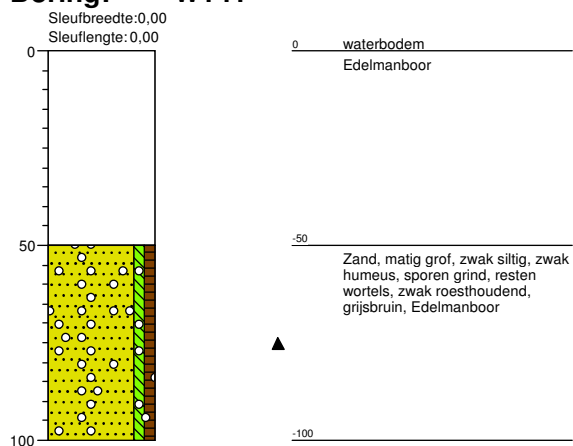
Boring: W139



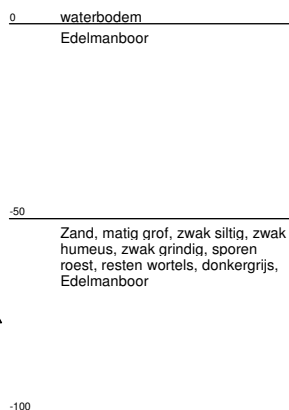
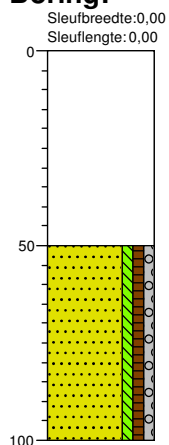
Boring: W140



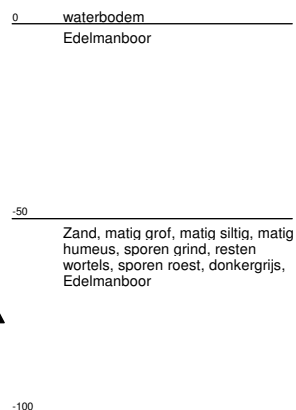
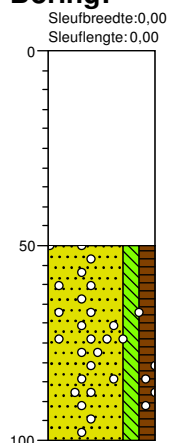
Boring: W141



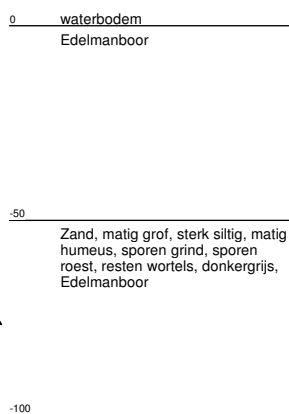
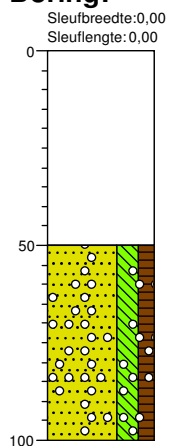
Boring: W142



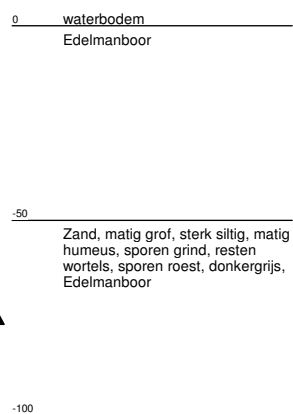
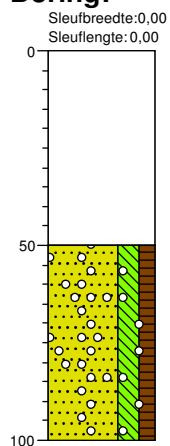
Boring: W143



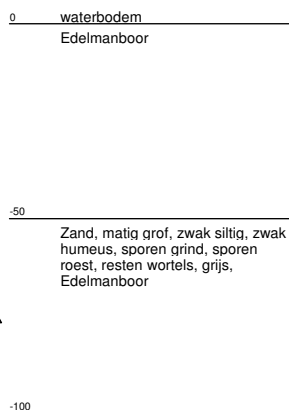
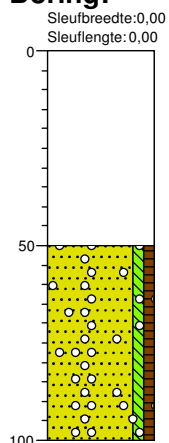
Boring: W144



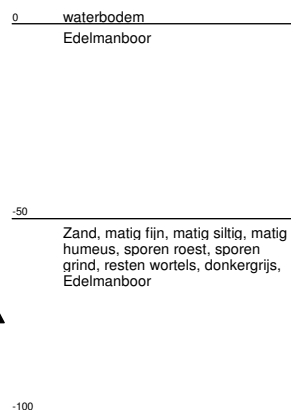
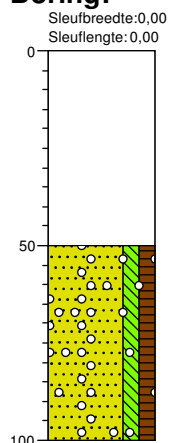
Boring: W145



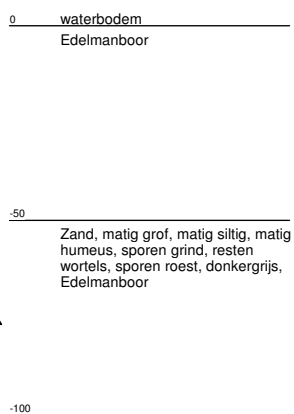
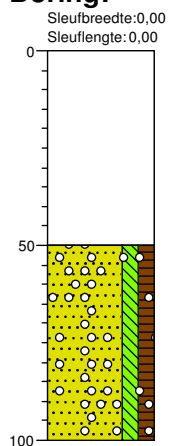
Boring: W146



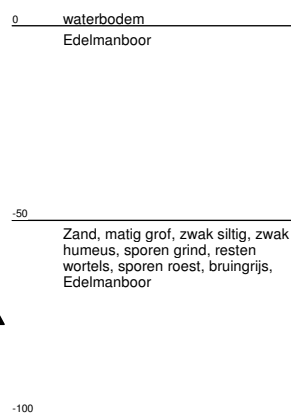
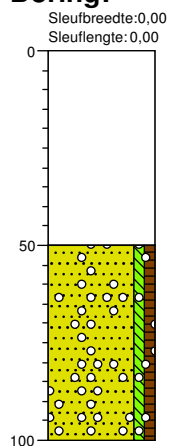
Boring: W147



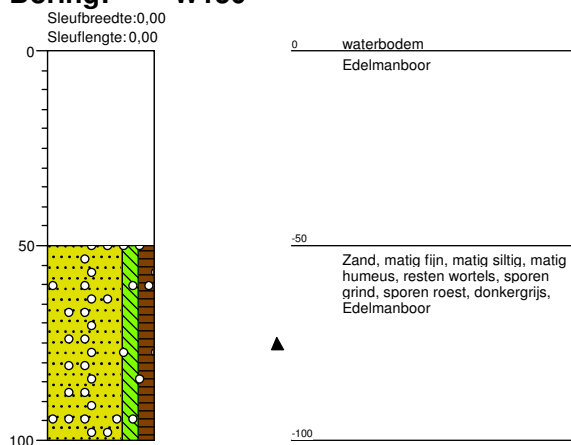
Boring: W148



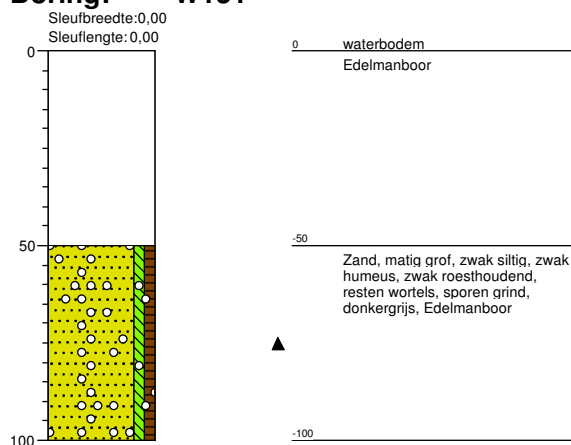
Boring: W149



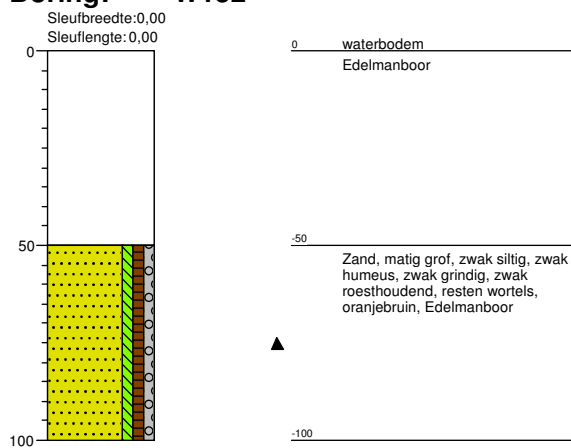
Boring: W150



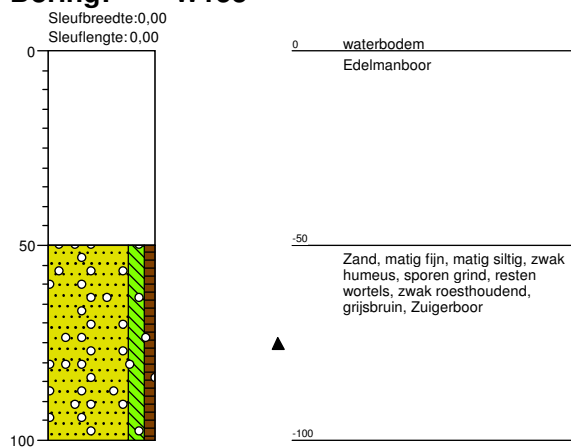
Boring: W151



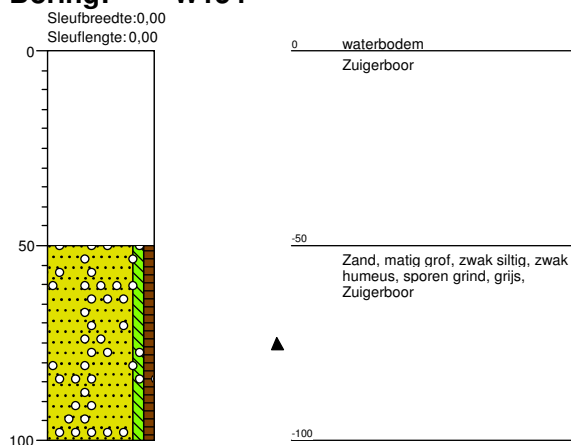
Boring: W152



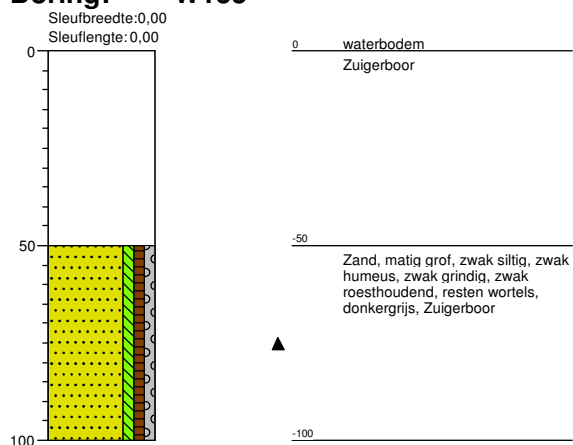
Boring: W153



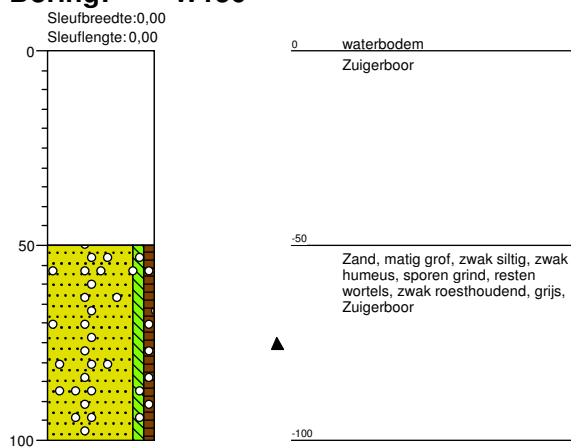
Boring: W154



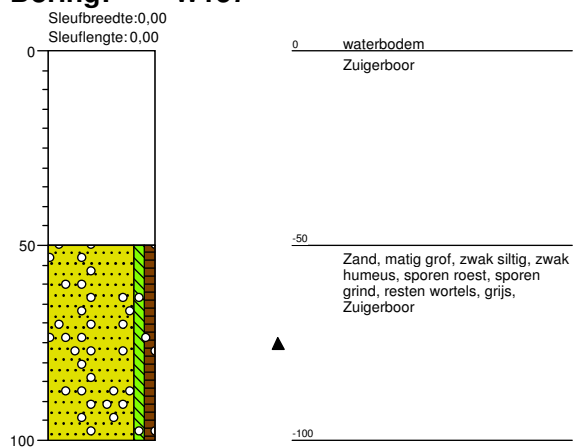
Boring: W155



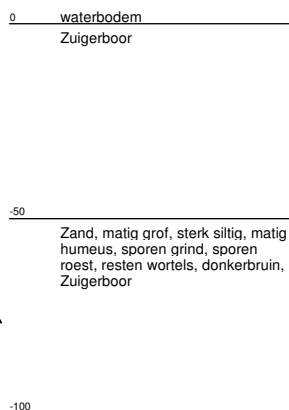
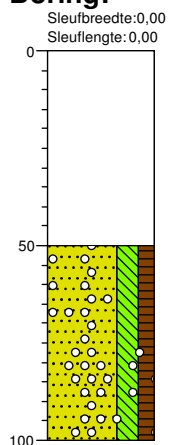
Boring: W156



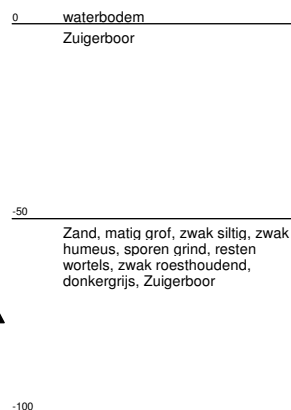
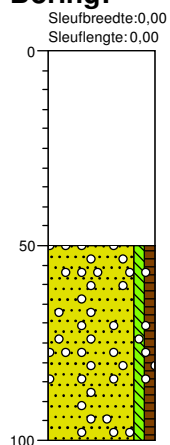
Boring: W157



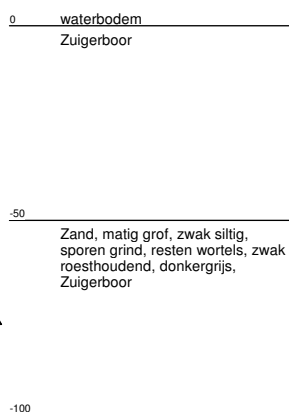
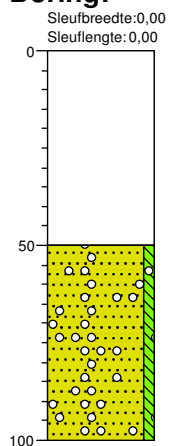
Boring: W158



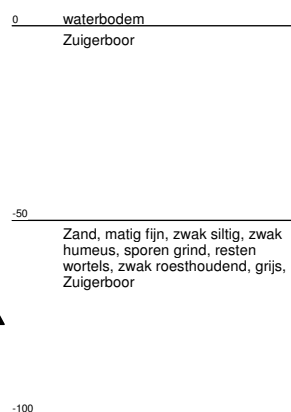
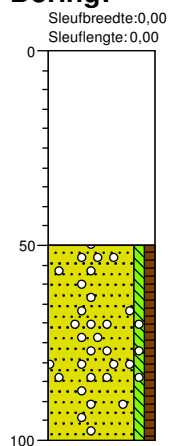
Boring: W159



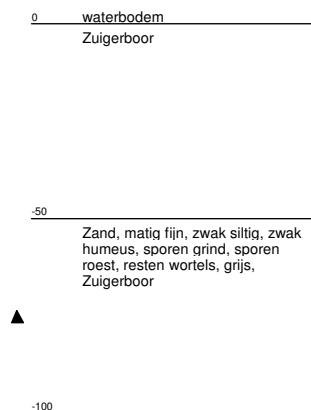
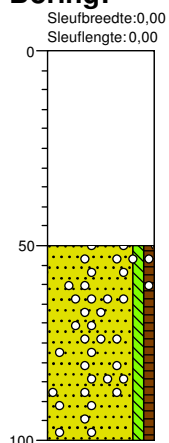
Boring: W160



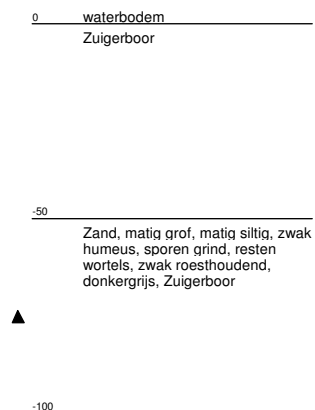
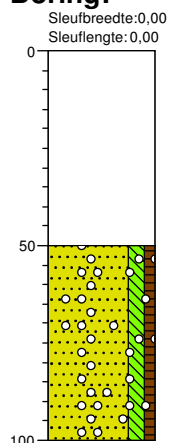
Boring: W161



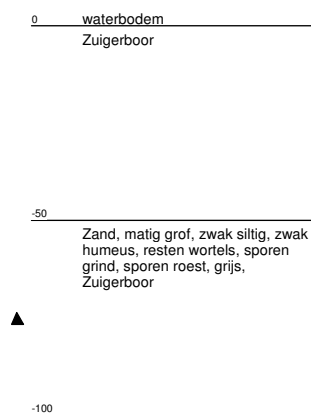
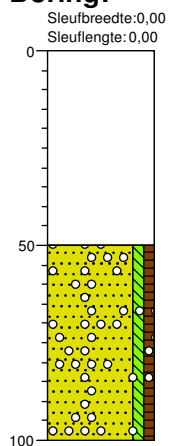
Boring: W162



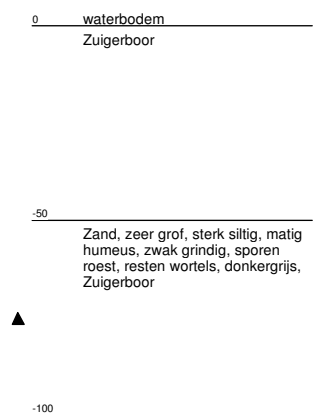
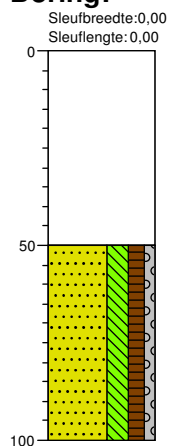
Boring: W163



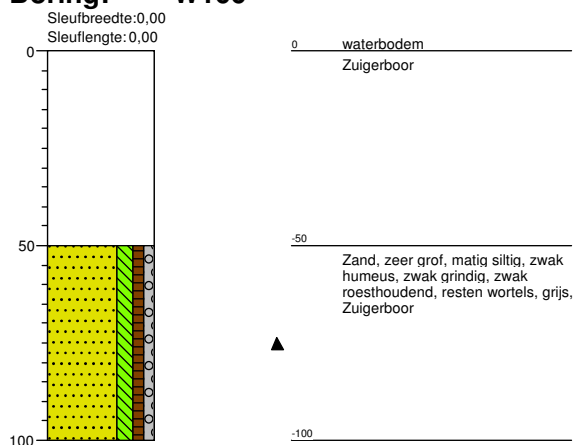
Boring: W164



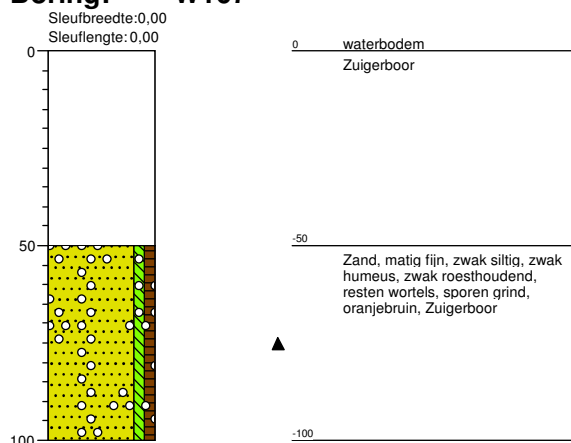
Boring: W165



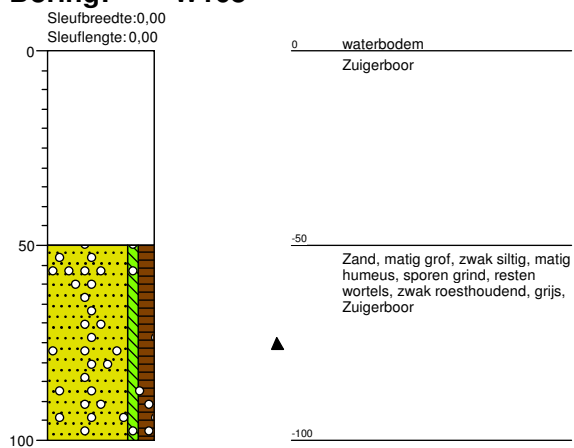
Boring: W166



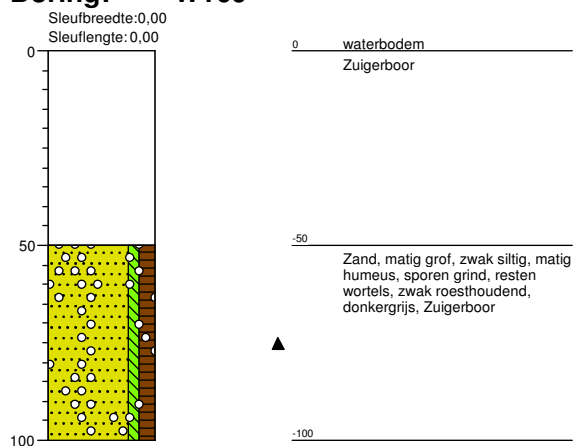
Boring: W167



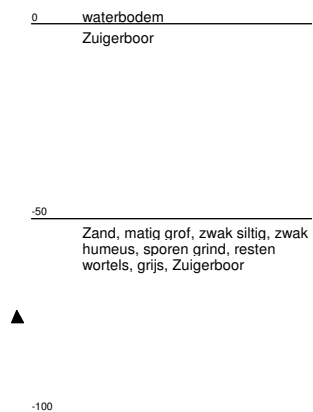
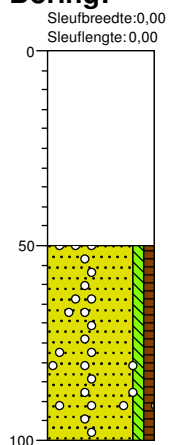
Boring: W168



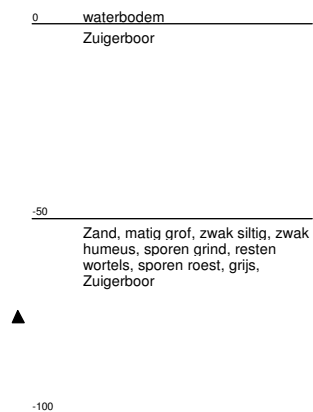
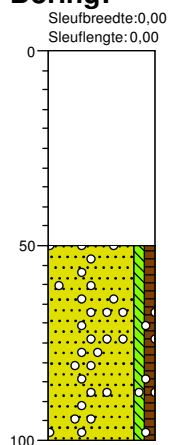
Boring: W169



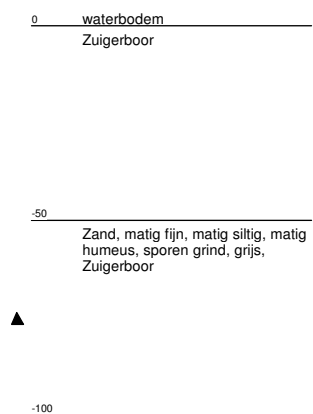
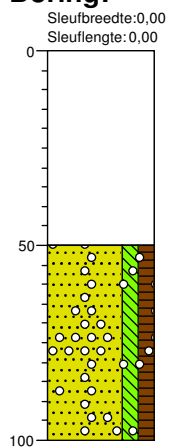
Boring: W170



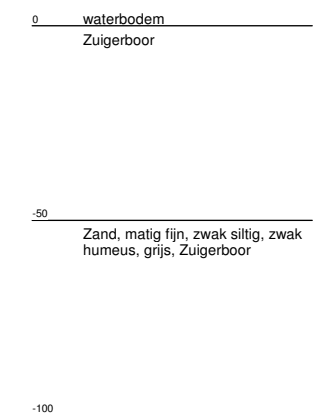
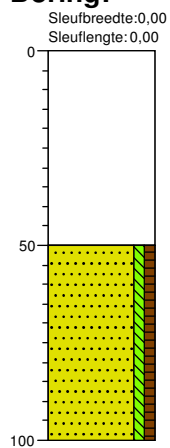
Boring: W171



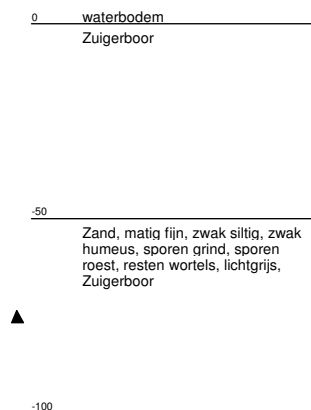
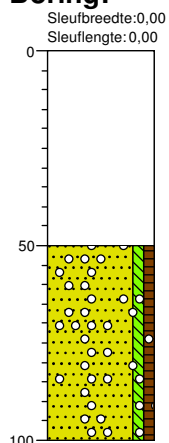
Boring: W172



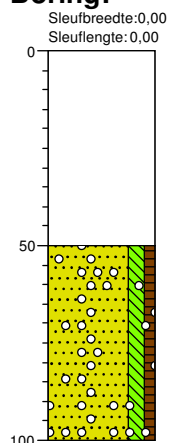
Boring: W173



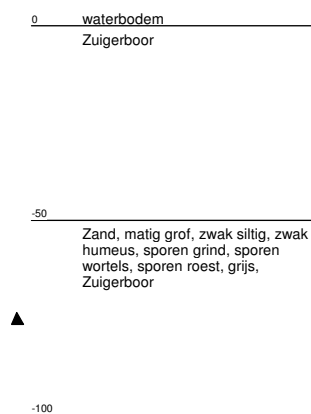
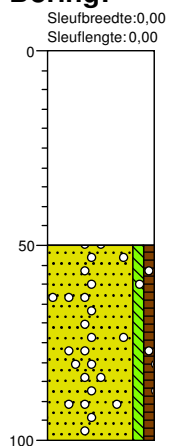
Boring: W174



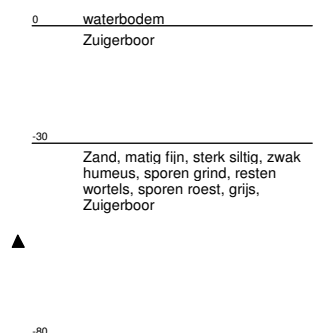
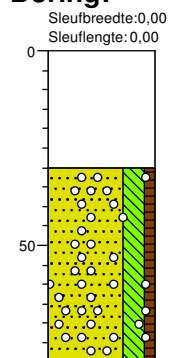
Boring: W175



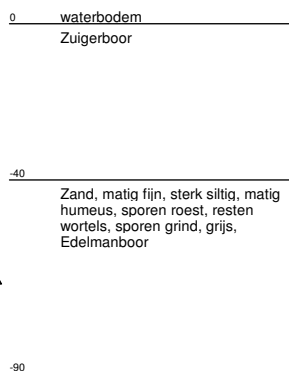
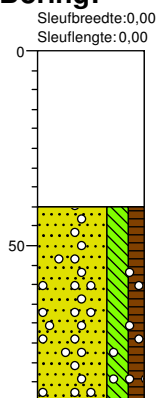
Boring: W176



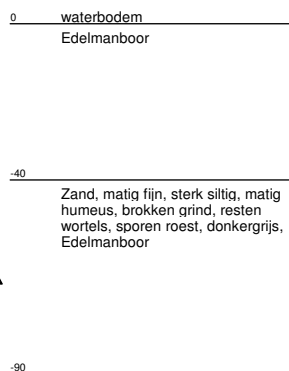
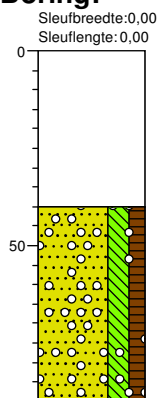
Boring: W177



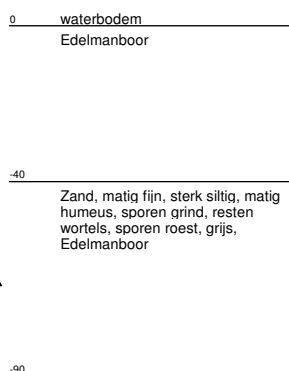
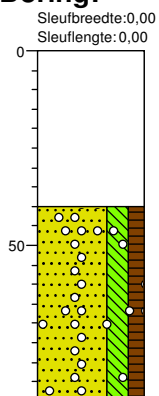
Boring: W178



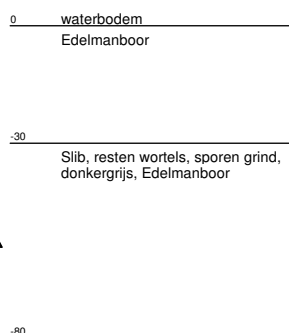
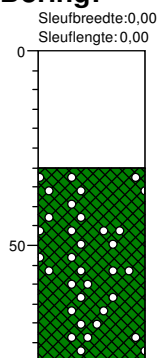
Boring: W179



Boring: W180



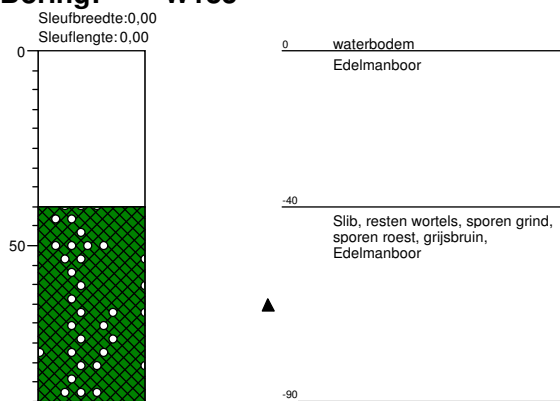
Boring: W181



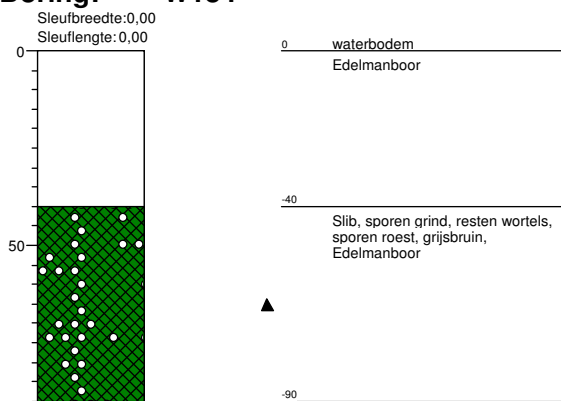
Boring: W182



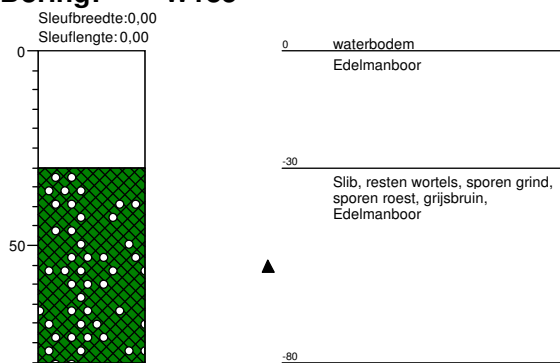
Boring: W183



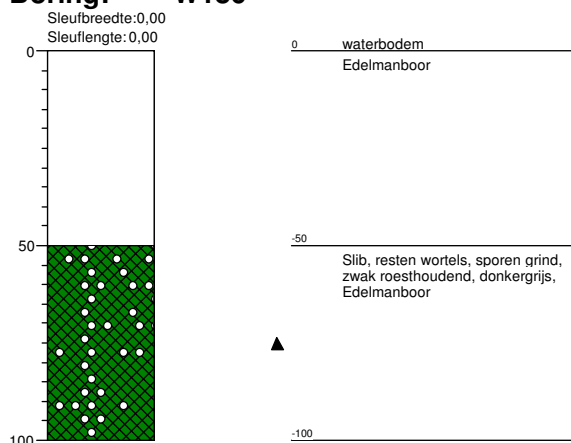
Boring: W184



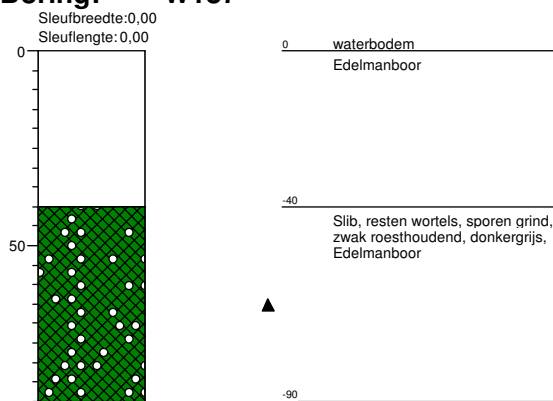
Boring: W185



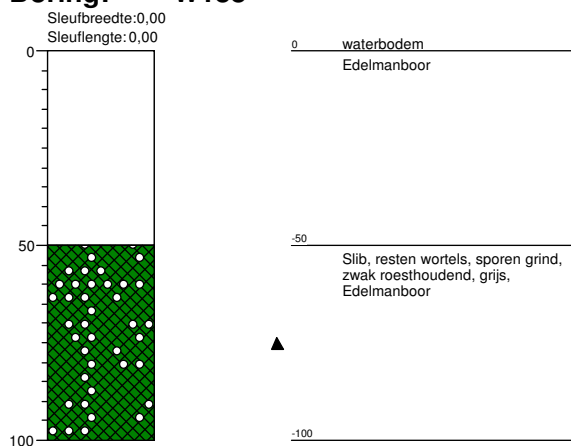
Boring: W186



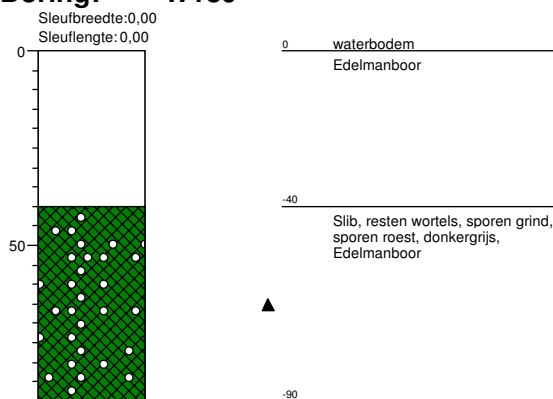
Boring: W187



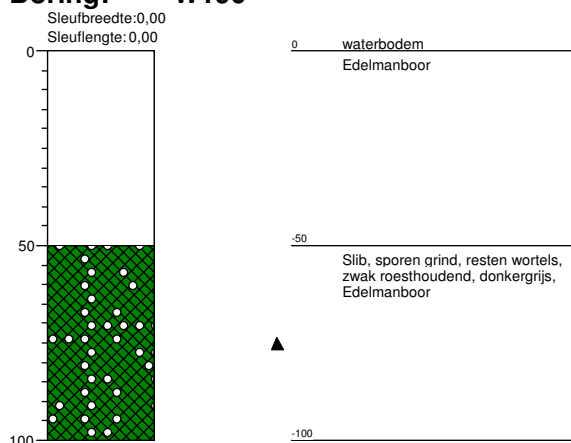
Boring: W188



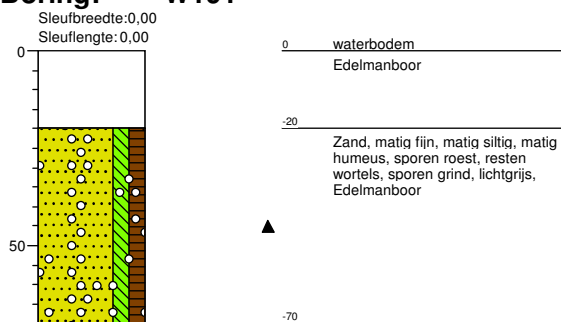
Boring: W189



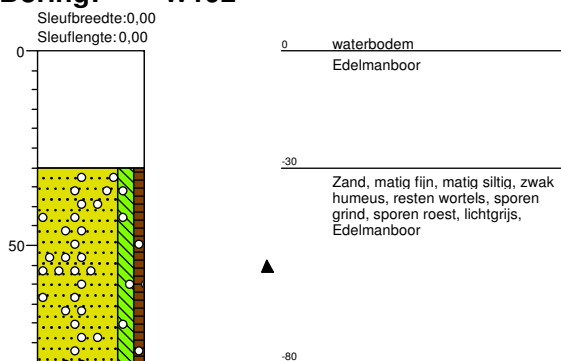
Boring: W190



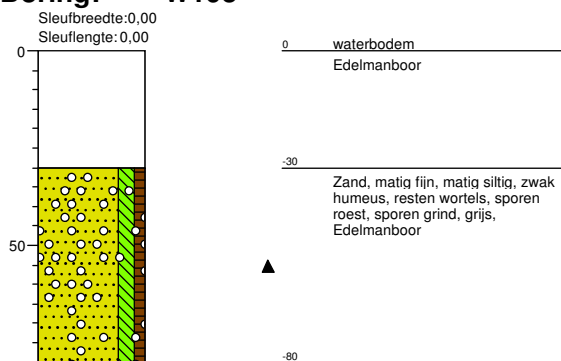
Boring: W191



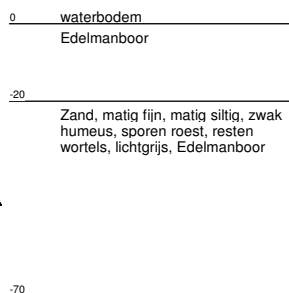
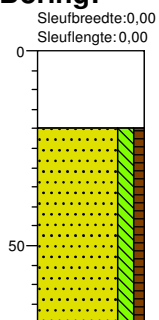
Boring: W192



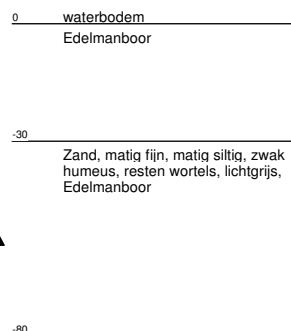
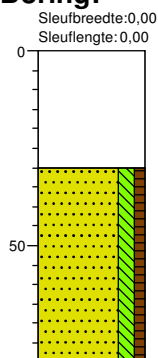
Boring: W193



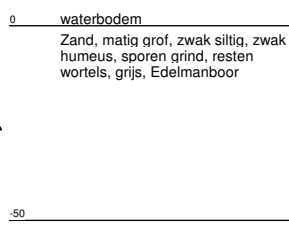
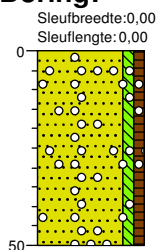
Boring: W194



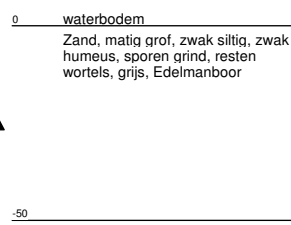
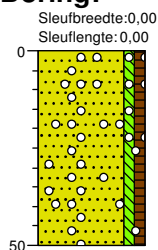
Boring: W195



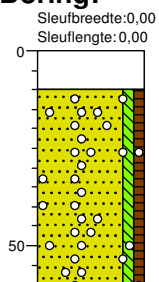
Boring: W196



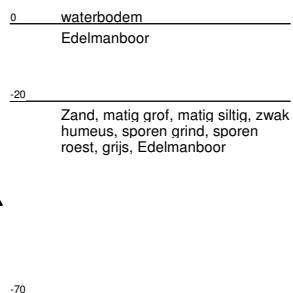
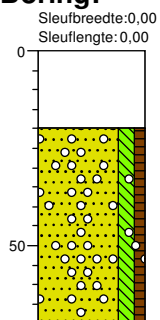
Boring: W197



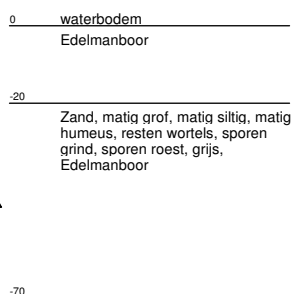
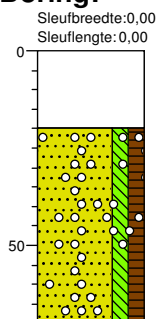
Boring: W198



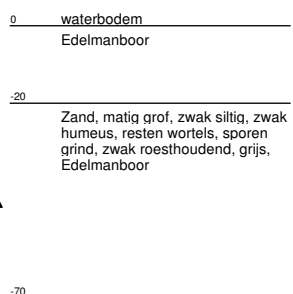
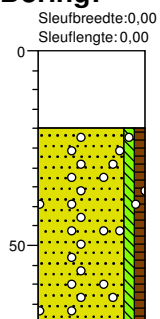
Boring: W199



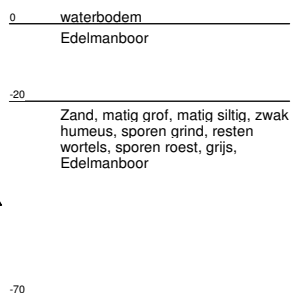
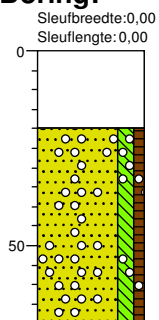
Boring: W200



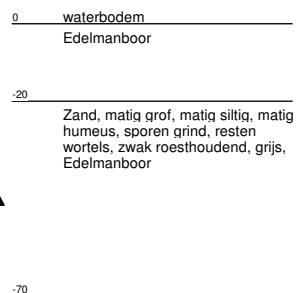
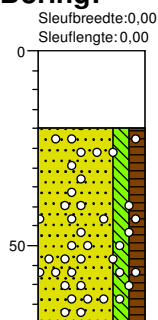
Boring: W201



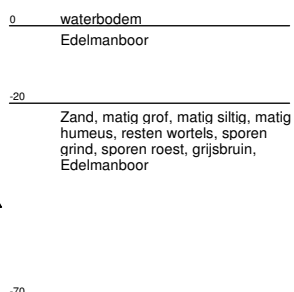
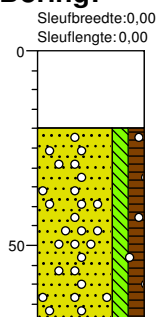
Boring: W202



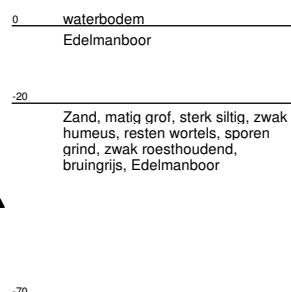
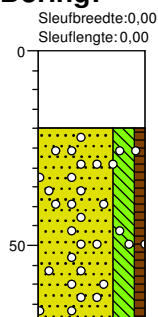
Boring: W203



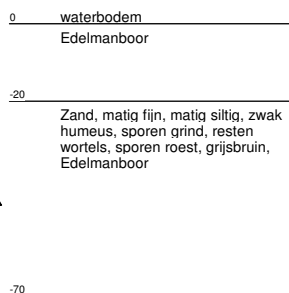
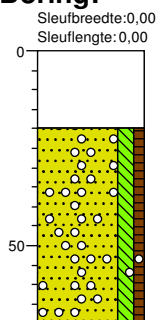
Boring: W204



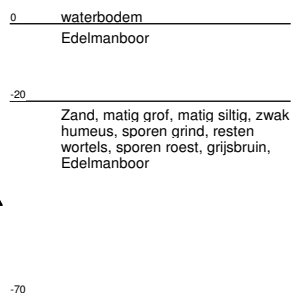
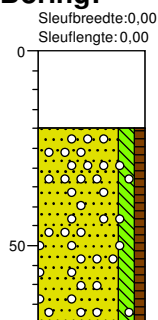
Boring: W205



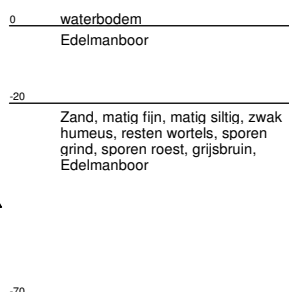
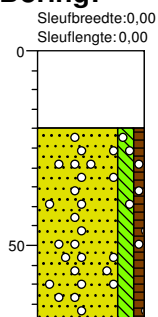
Boring: W206



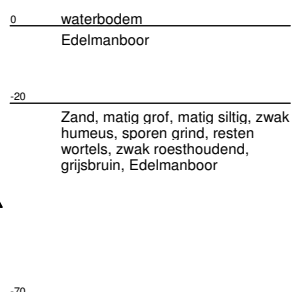
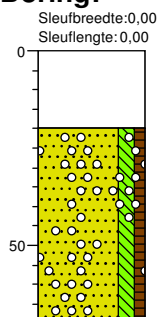
Boring: W207



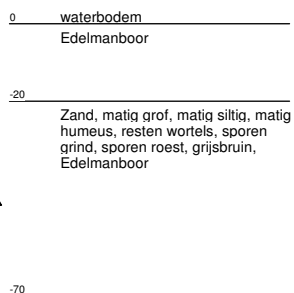
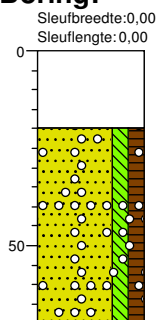
Boring: W208



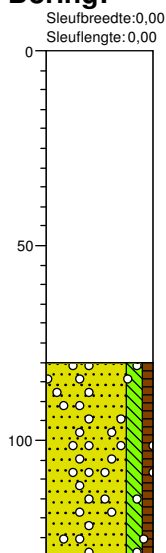
Boring: W209



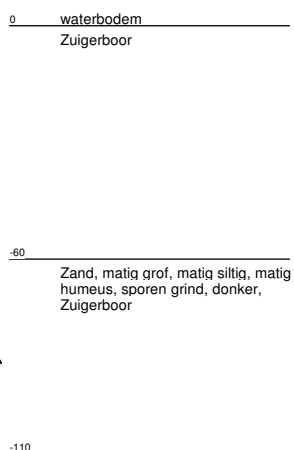
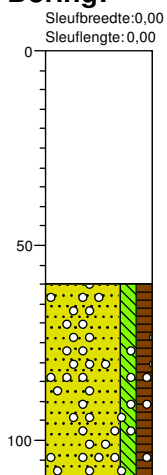
Boring: W210



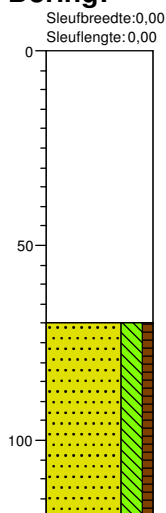
Boring: W211



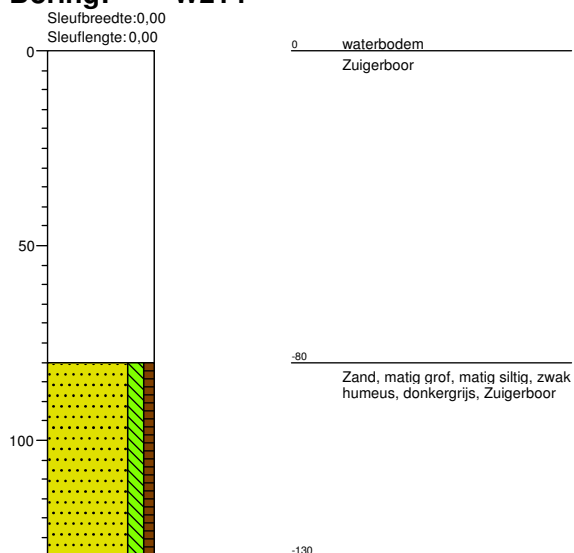
Boring: W212



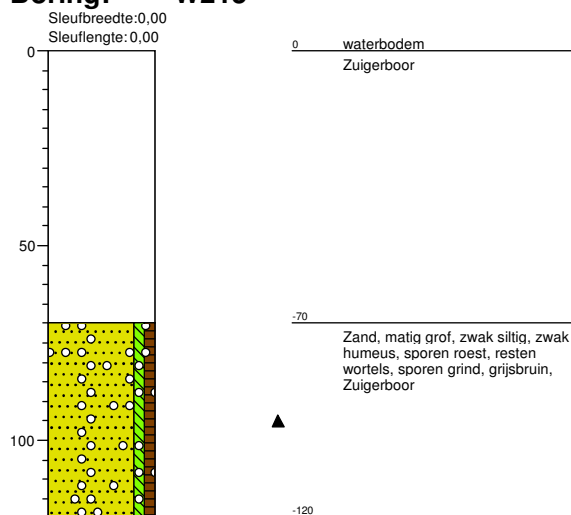
Boring: W213



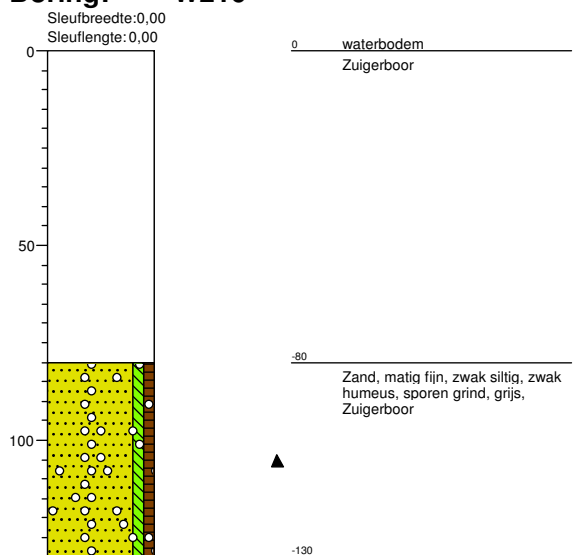
Boring: W214



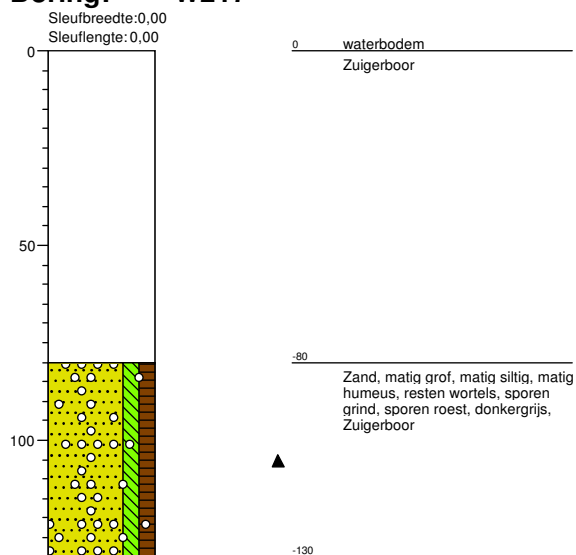
Boring: W215



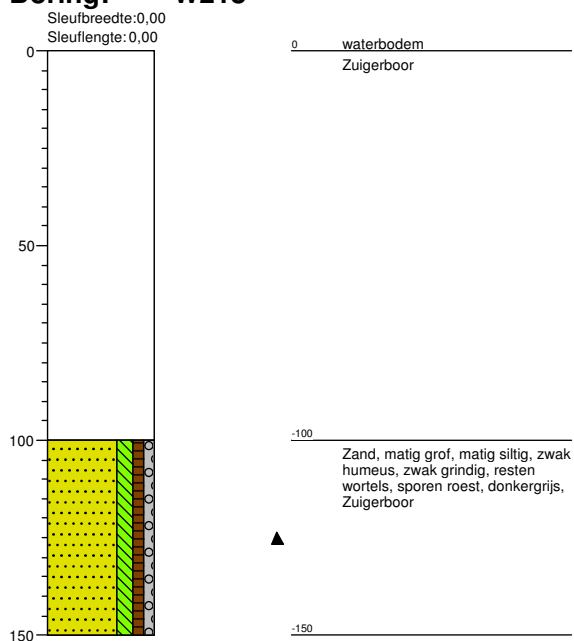
Boring: W216



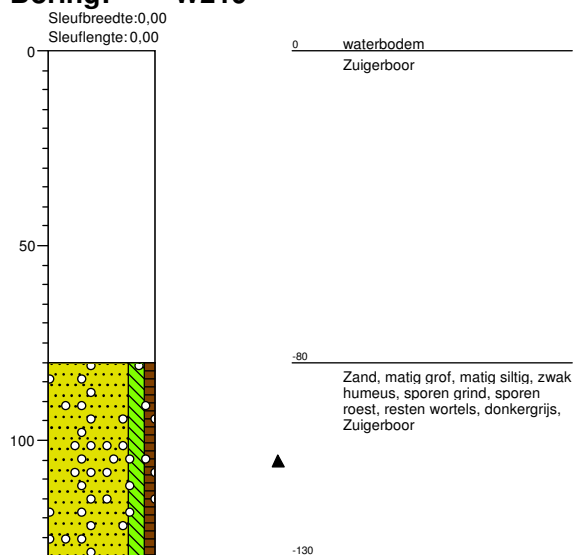
Boring: W217



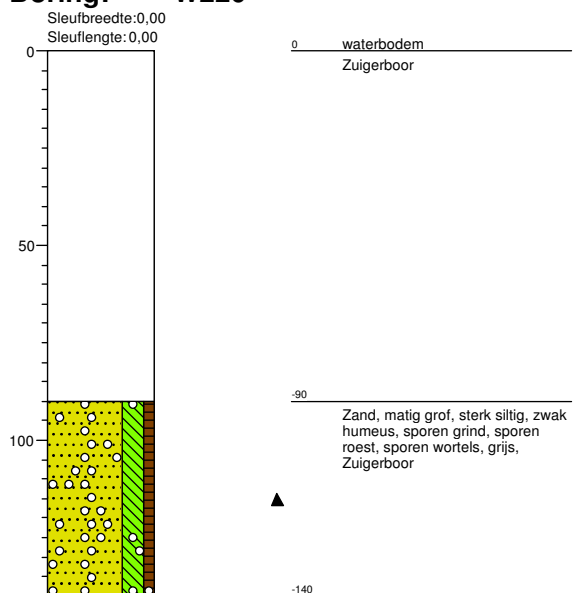
Boring: W218



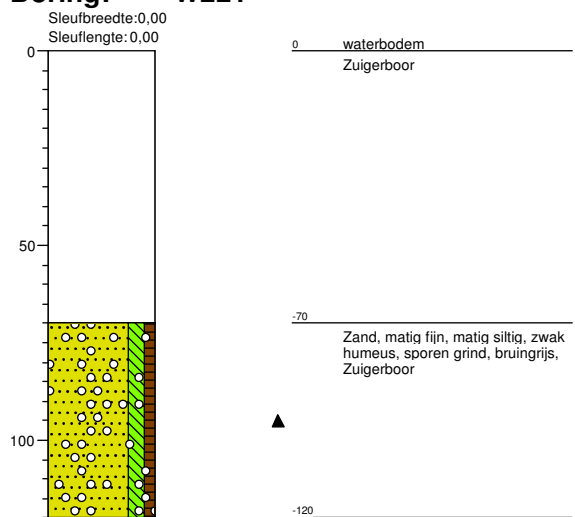
Boring: W219



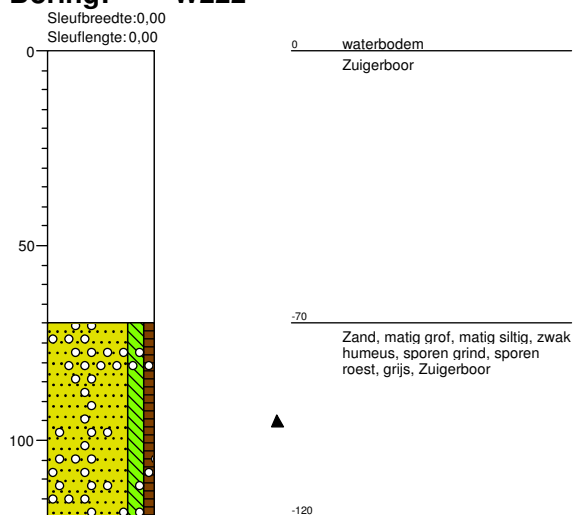
Boring: W220



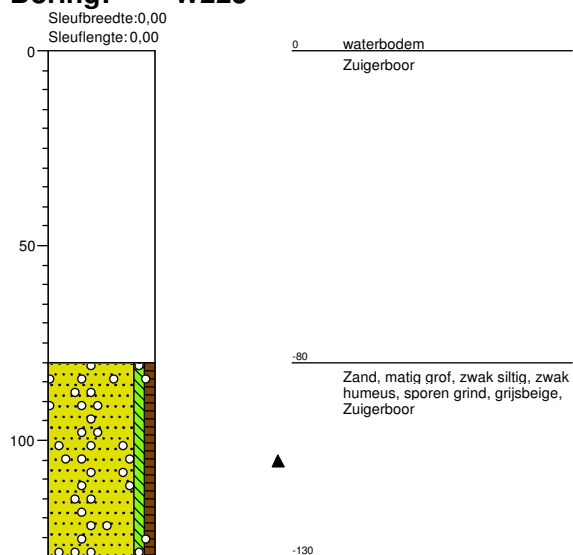
Boring: W221



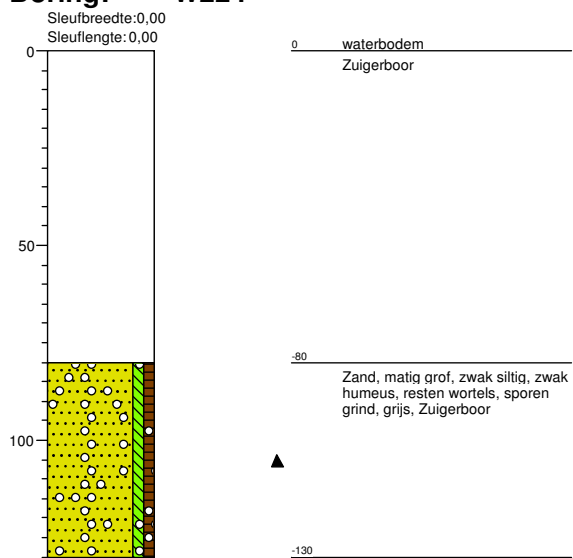
Boring: W222



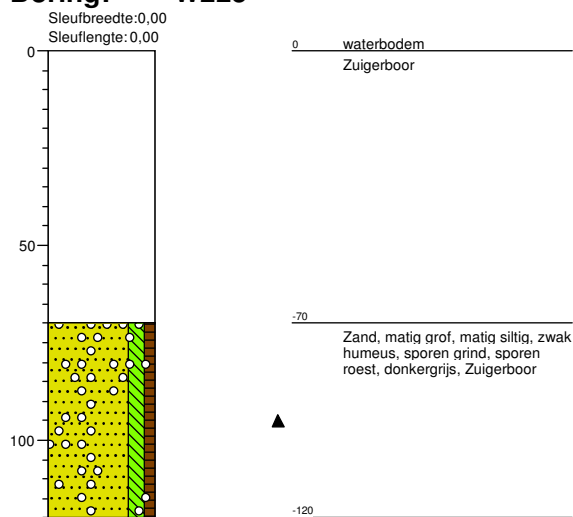
Boring: W223



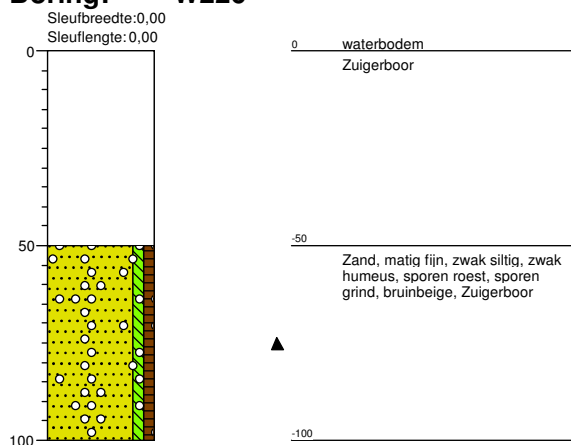
Boring: W224



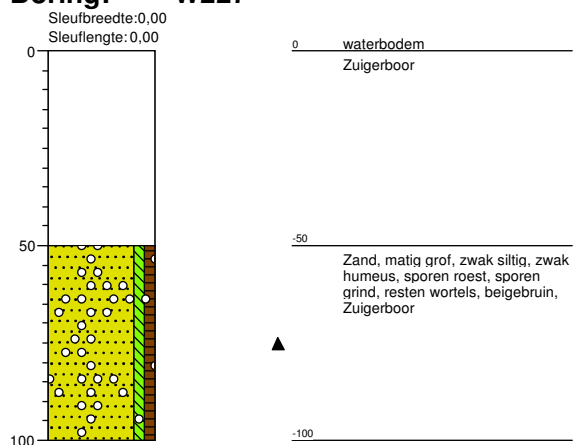
Boring: W225



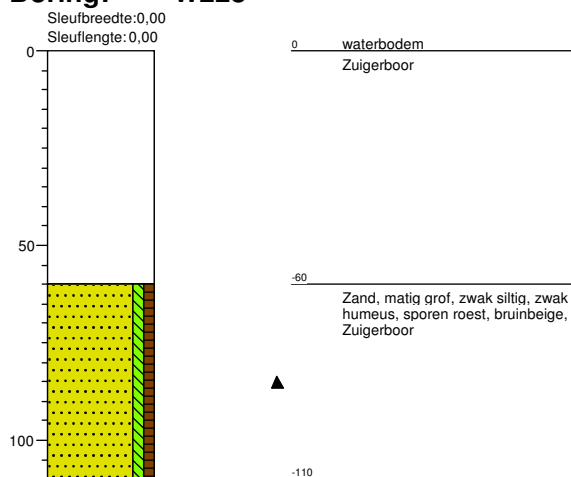
Boring: W226



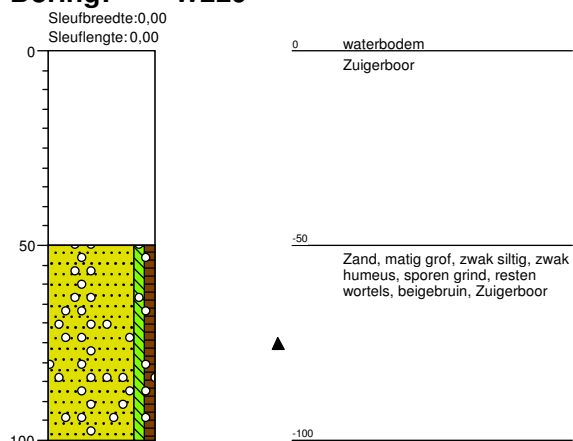
Boring: W227



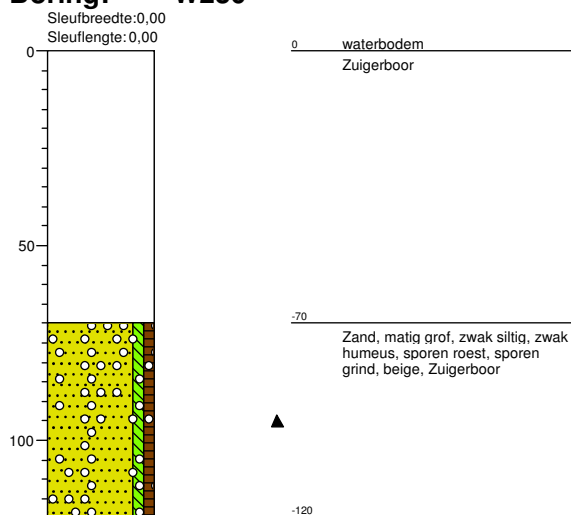
Boring: W228



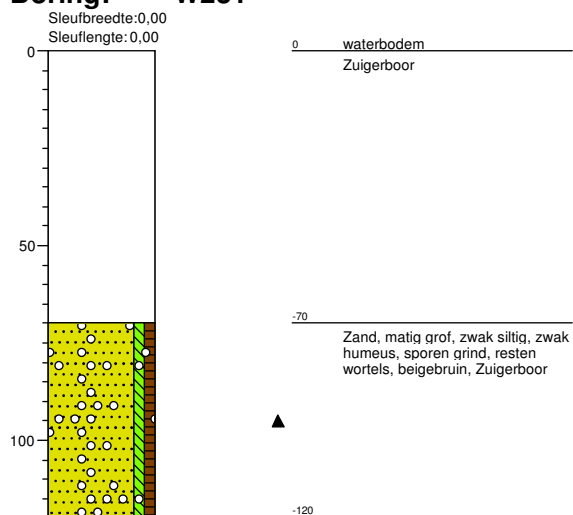
Boring: W229



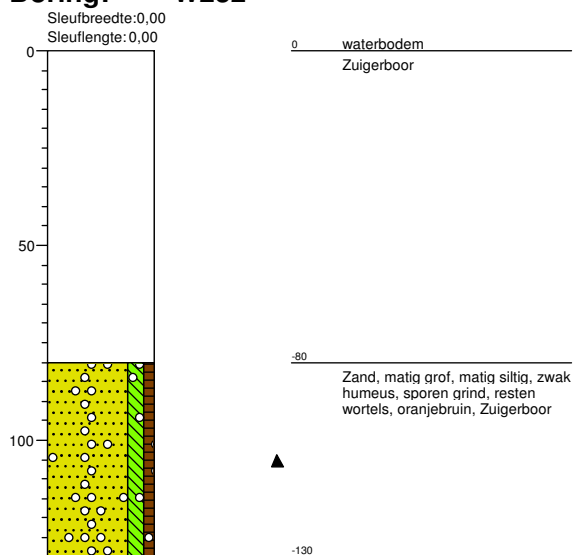
Boring: W230



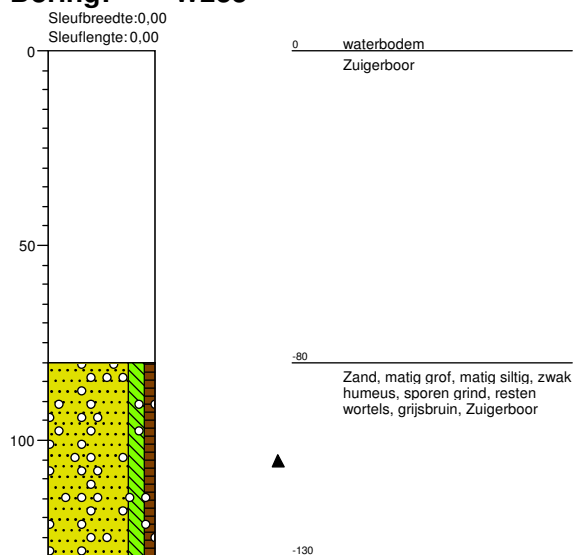
Boring: W231



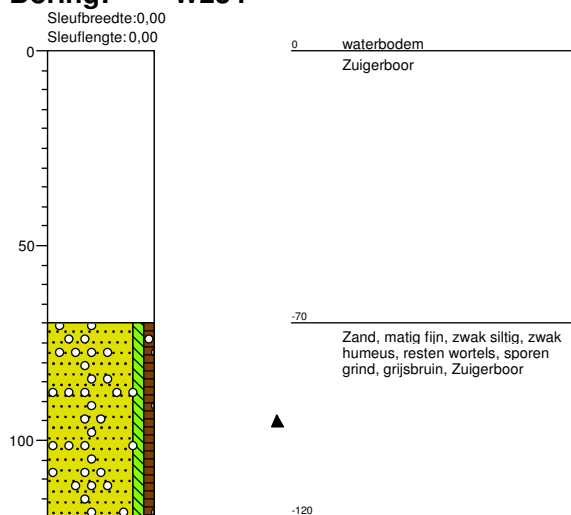
Boring: W232



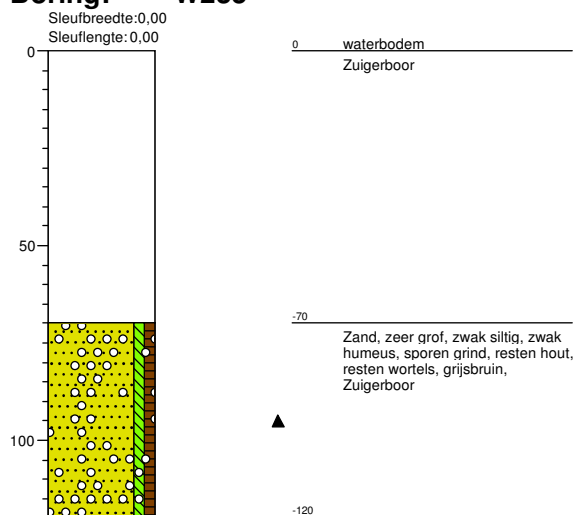
Boring: W233



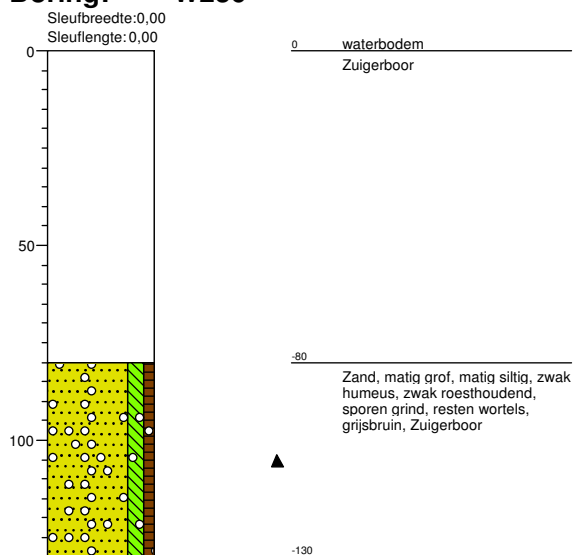
Boring: W234



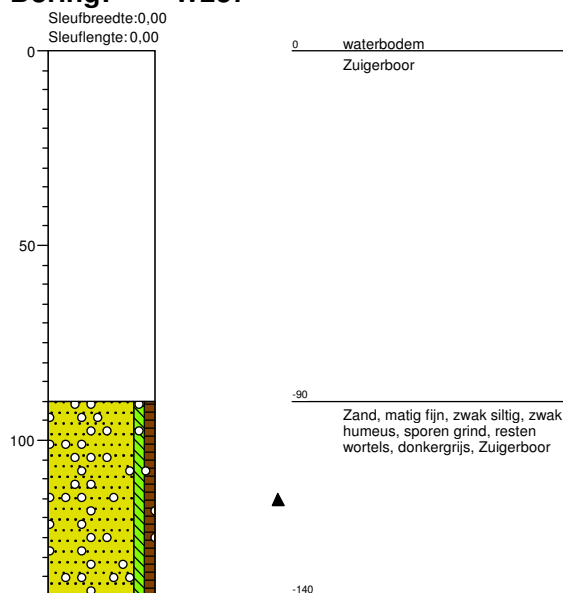
Boring: W235



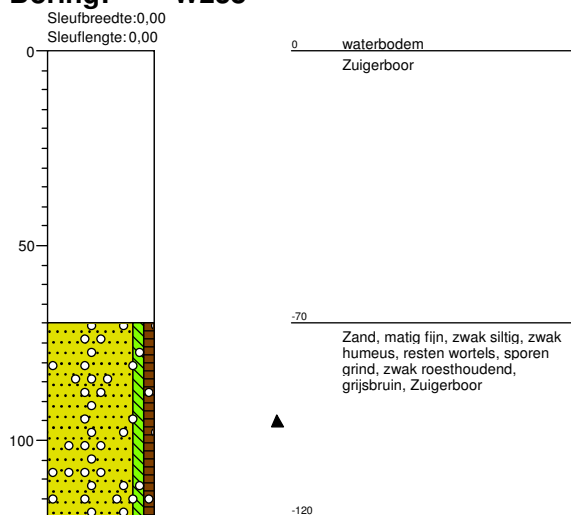
Boring: W236



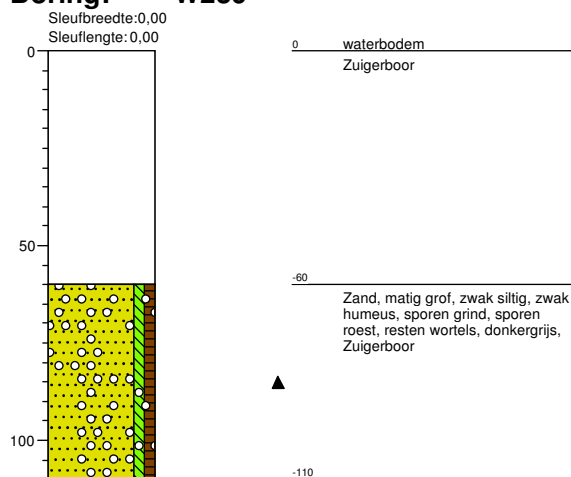
Boring: W237



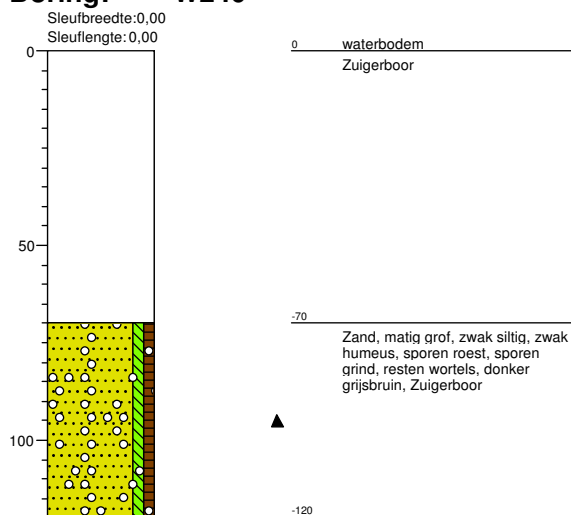
Boring: W238



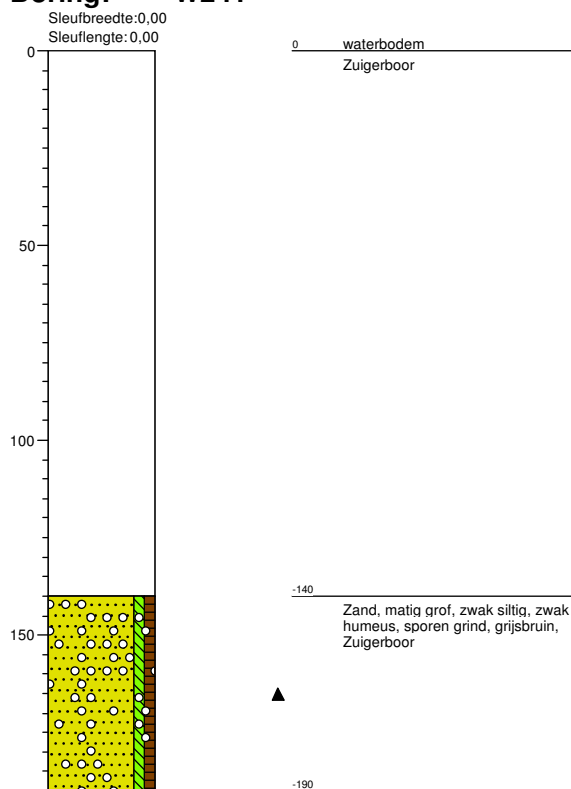
Boring: W239



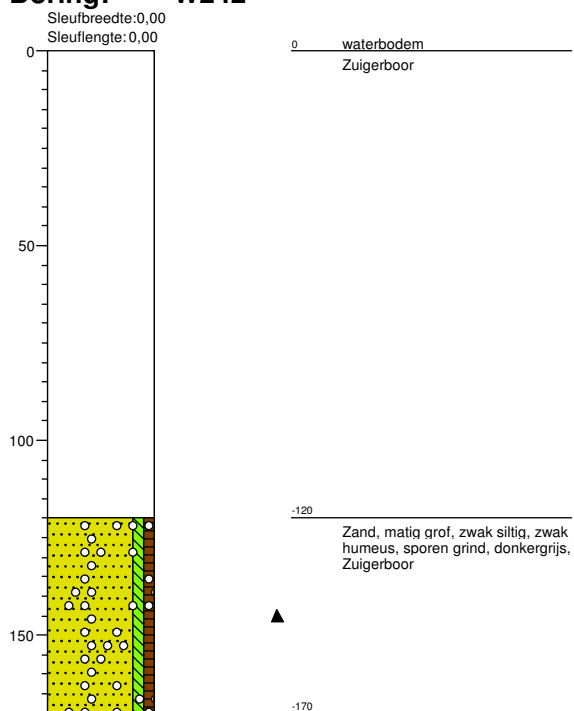
Boring: W240



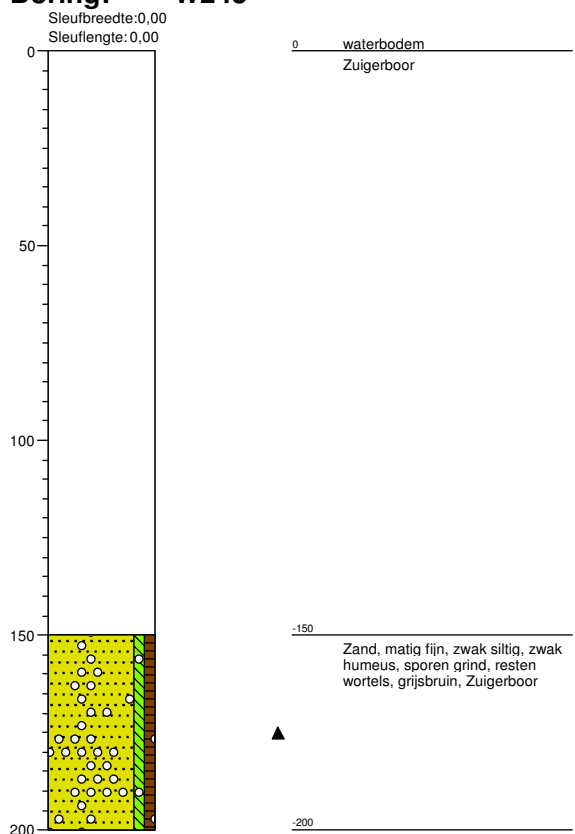
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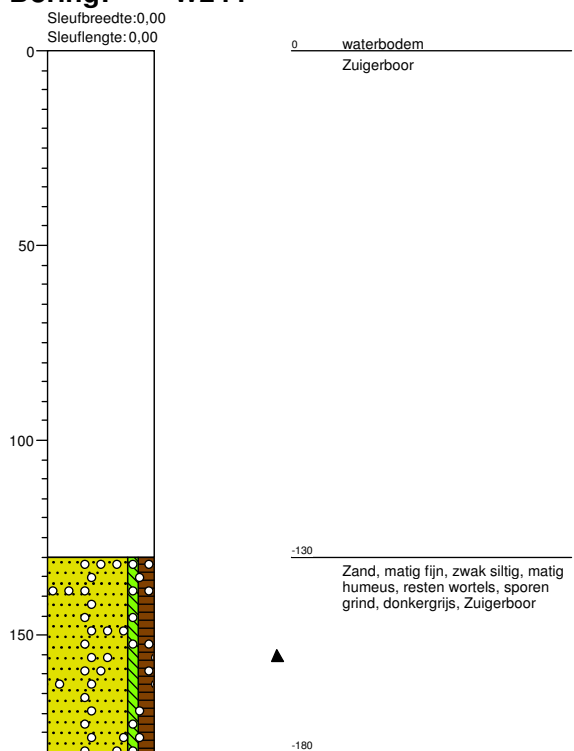
Boring: W242



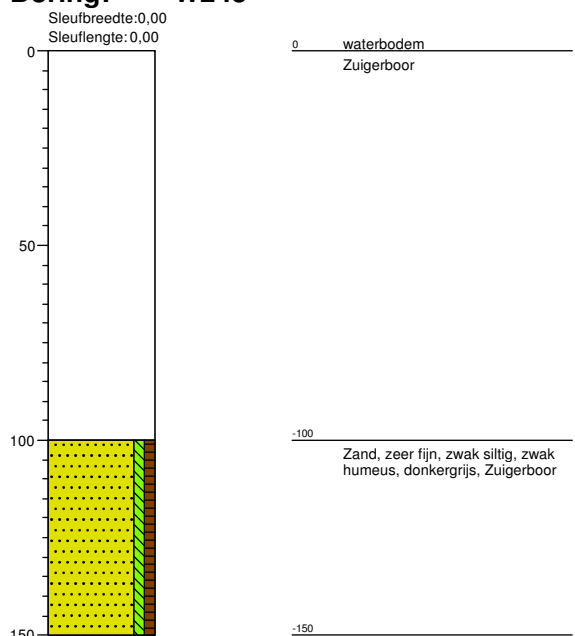
Boring: W243



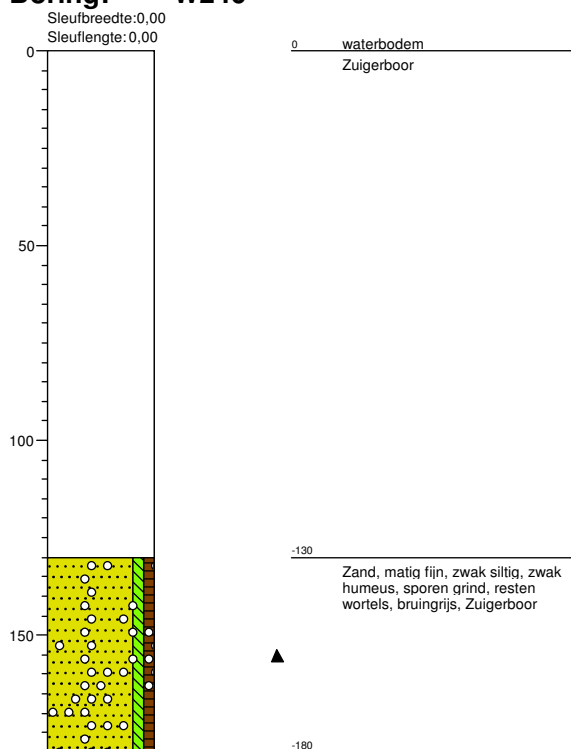
Boring: W244



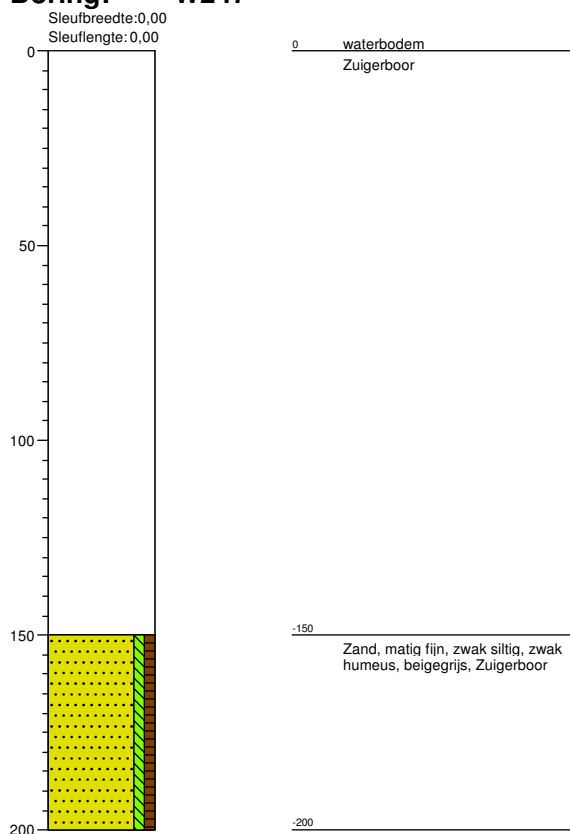
Boring: W245



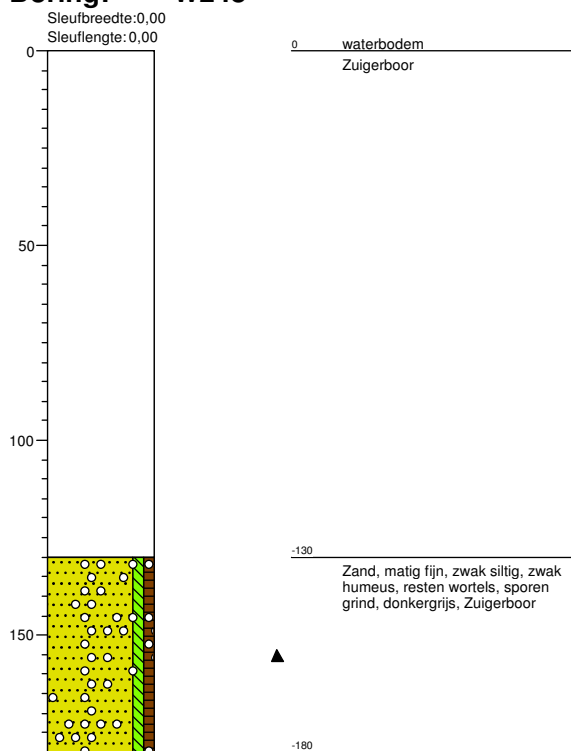
Boring: W246



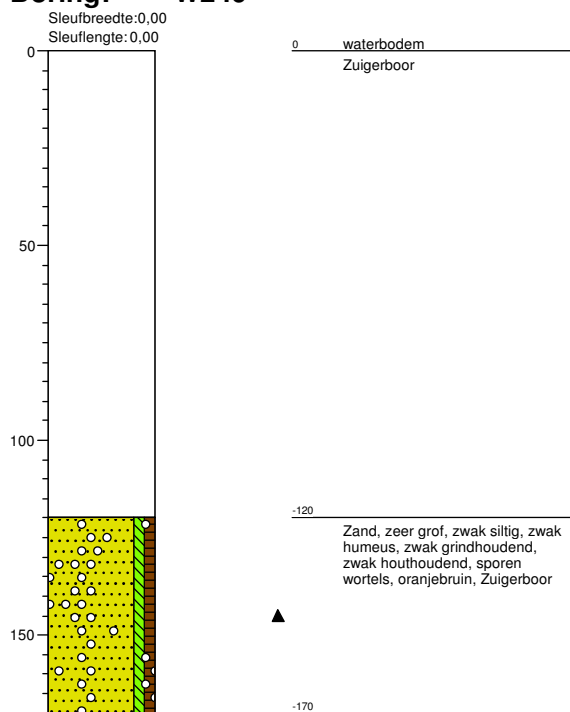
Boring: W247



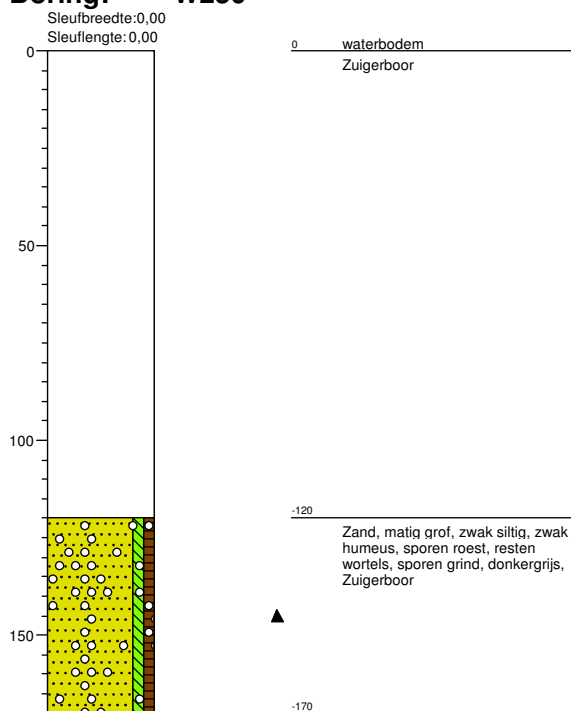
Boring: W248



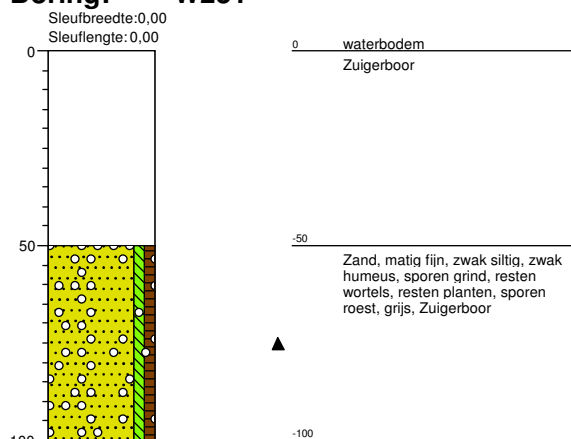
Boring: W249



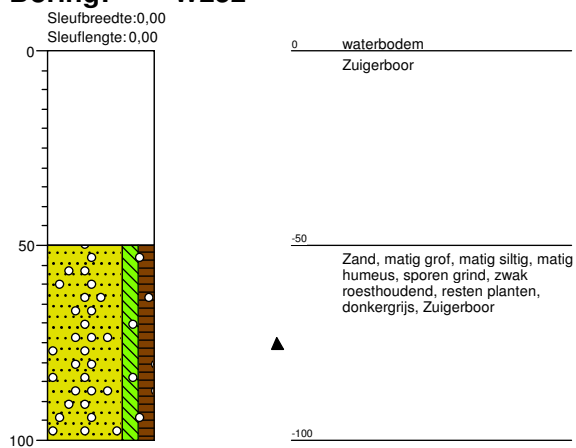
Boring: W250



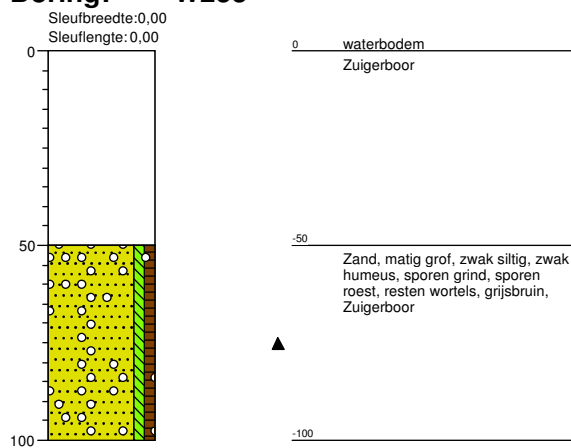
Boring: W251



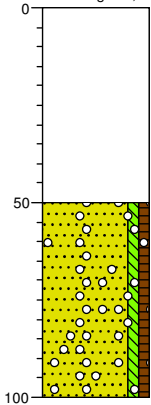
Boring: W252



Boring: W253



Sleufbreedte: 0,00
Sleuflengte: 0,00

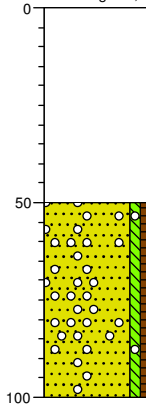


0 waterbodern
Zuigerboor

-50

Zand, matig grof, zwak siltig, zwak humeus, sporen grind, sporen roest, resten wortels, grijs, Zuigerboor

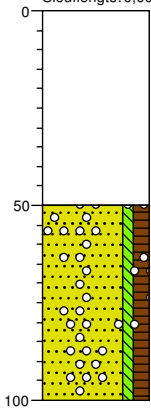
Sleufbreedte: 0,00
Sleuflengte: 0,00



0 waterbodern
Zuigerboor

Zand, matig grof, zwak siltig, zwak humeus, sporen grind, sporen roest, resten wortels, resten planten, donkergrijs, Zuigerboor

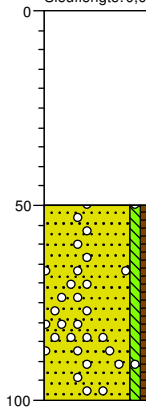
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Sleuflengte: 0,00



0 waterbodem
Zuigerboor

Zand, matig grof, zwak siltig, matig humeus, sporen grind, resten wortels, resten planten, zwak roesthoudend, grijsbruin, Zuigerboor

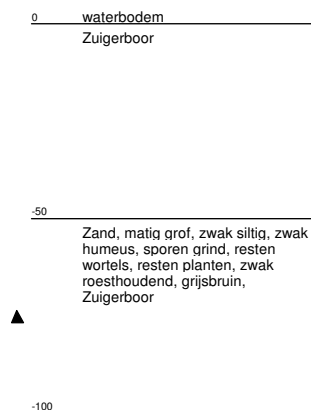
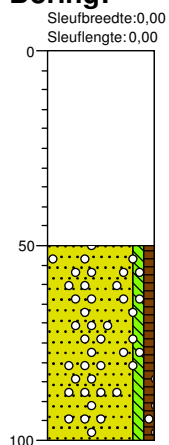
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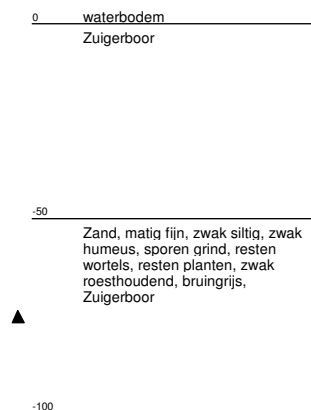
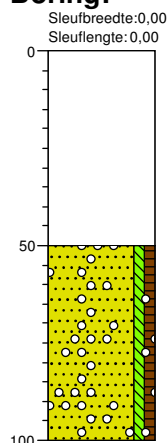
0 waterbodem
Zuigerboor

Zand, matig grof, zwak siltig, zwak humeus, sporen grind, zwak roesthoudend, resten wortels, resten planten, donkergrijs, Zuigerboor

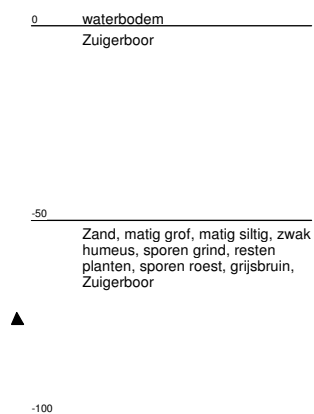
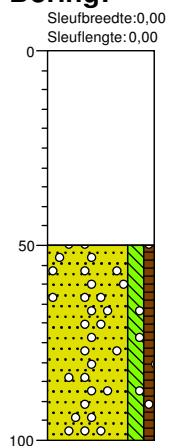
Boring: W258



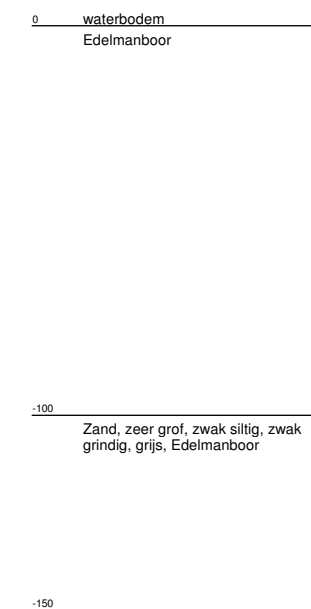
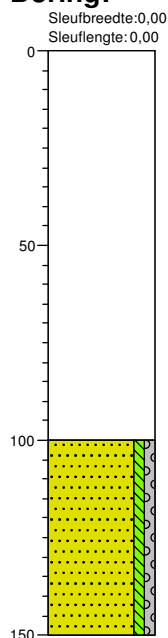
Boring: W259



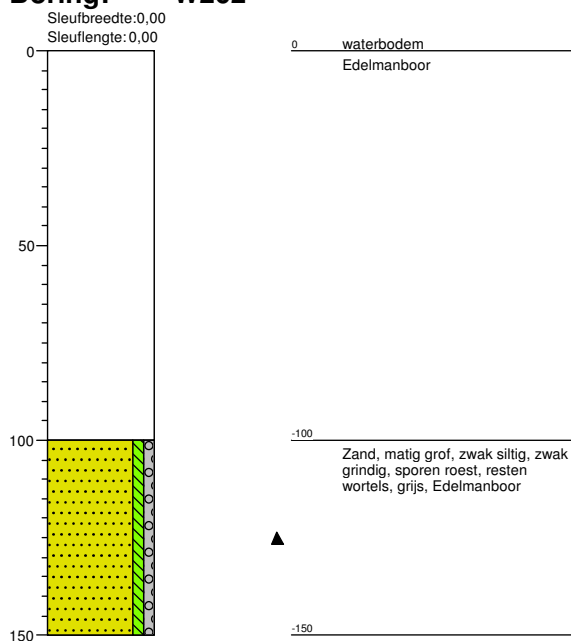
Boring: W260



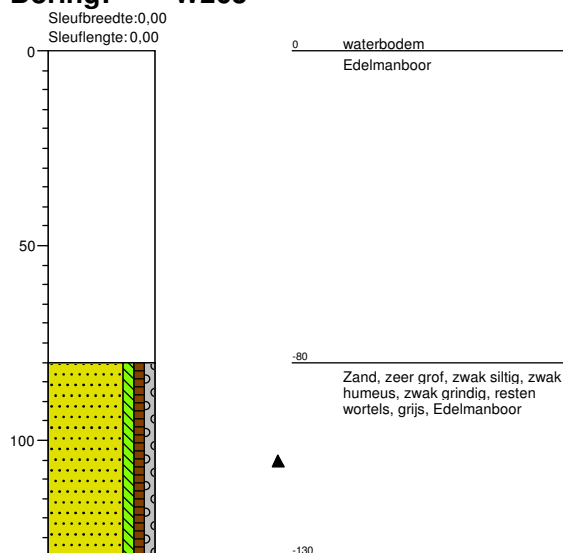
Boring: W261



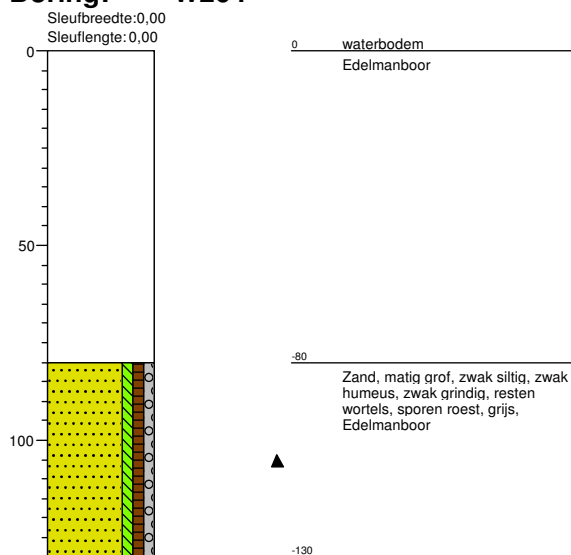
Boring: W262



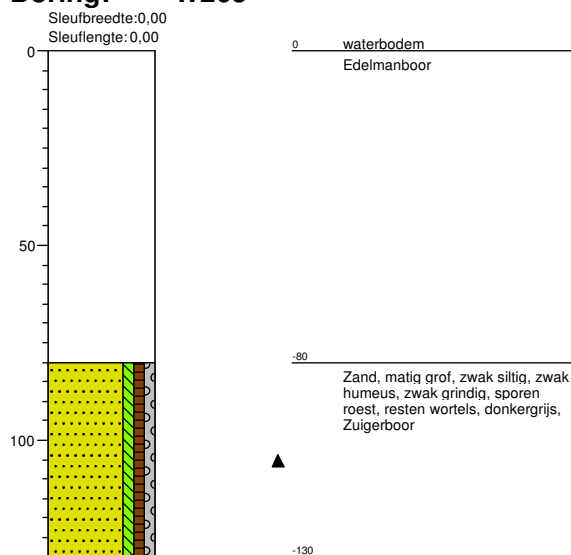
Boring: W263



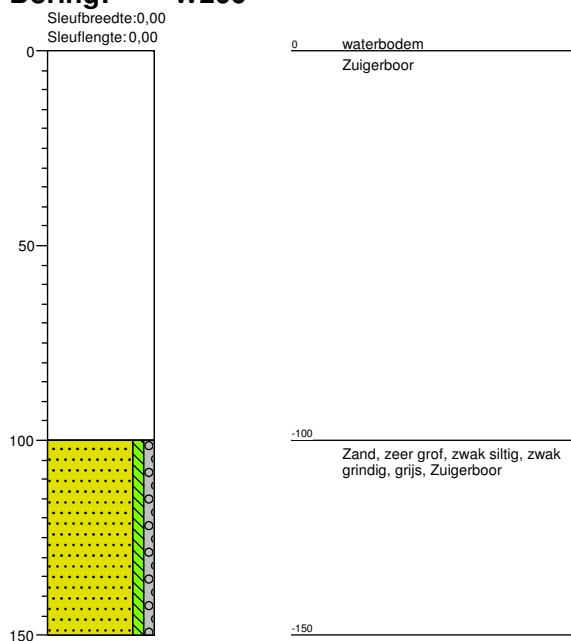
Boring: W264



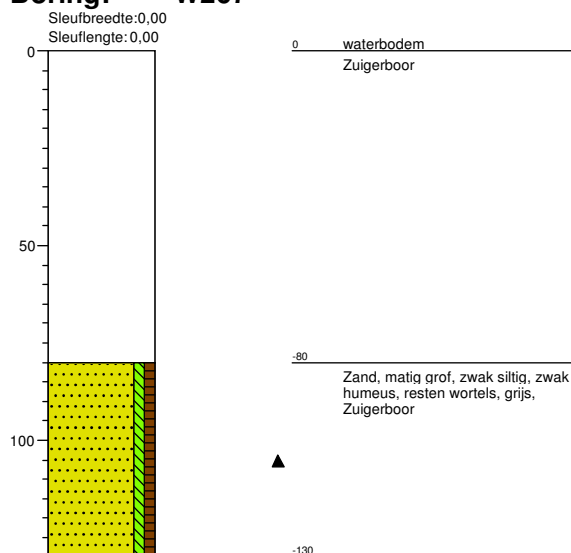
Boring: W265



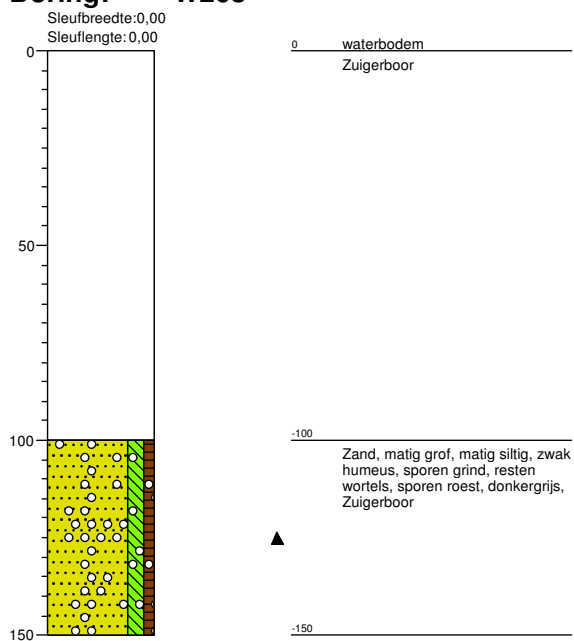
Boring: W266



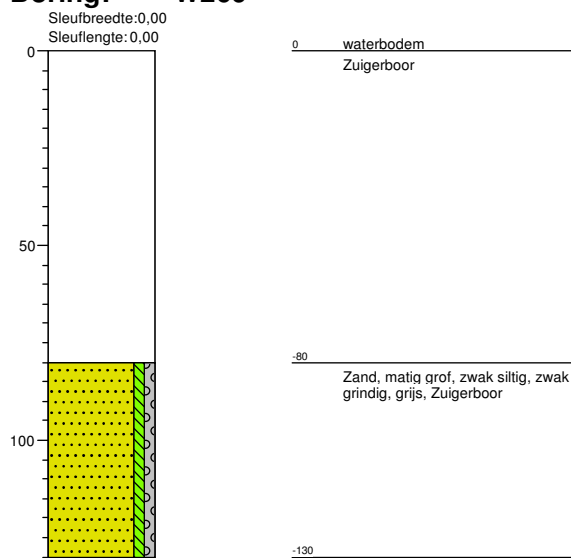
Boring: W267



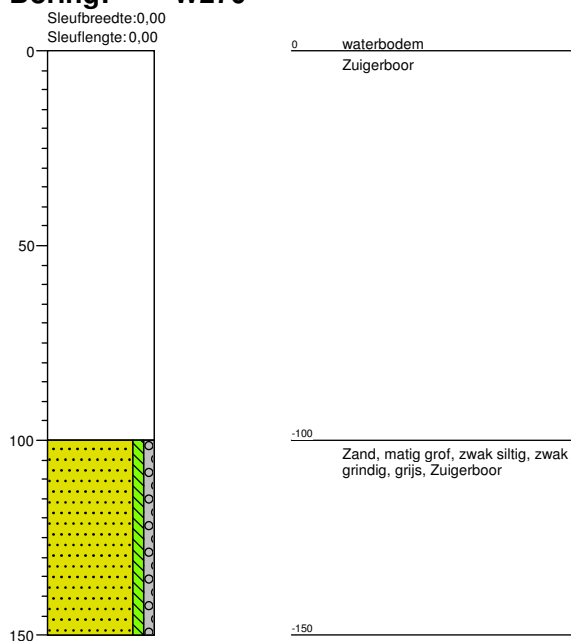
Boring: W268



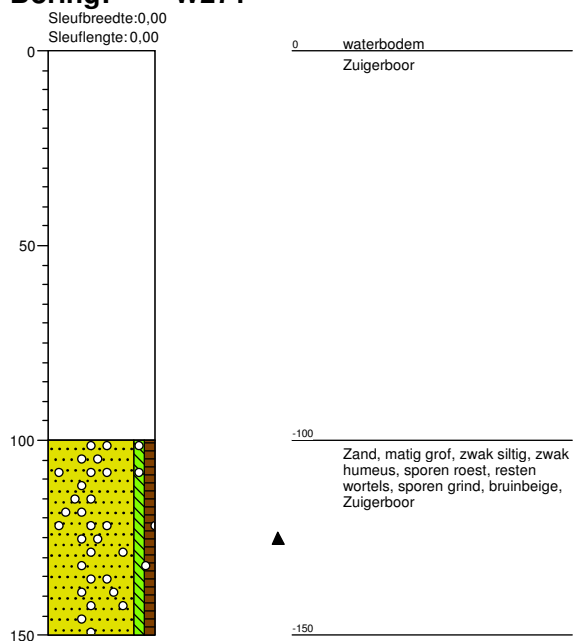
Boring: W269



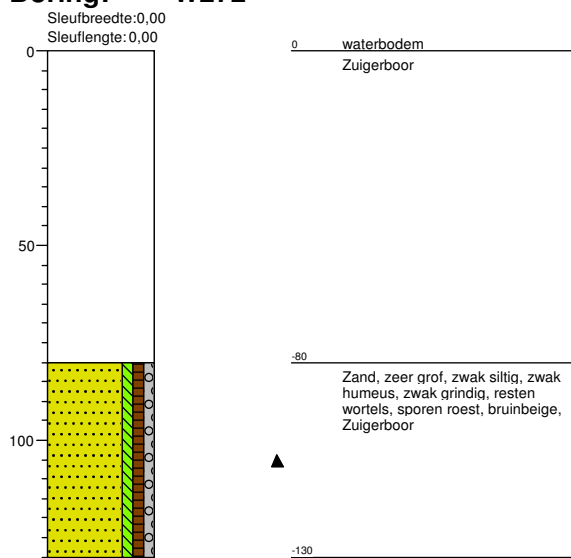
Boring: W270



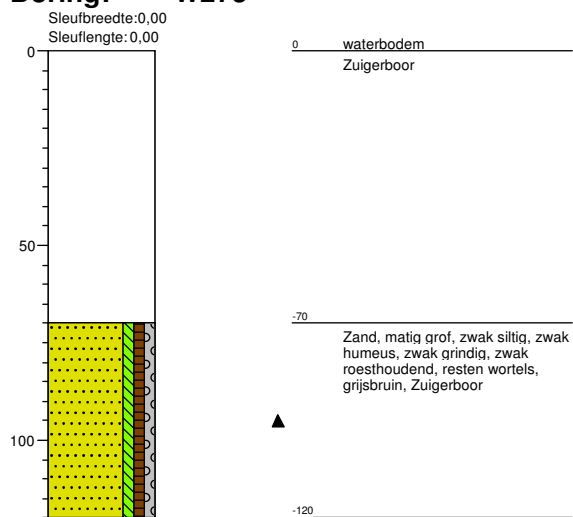
Boring: W271



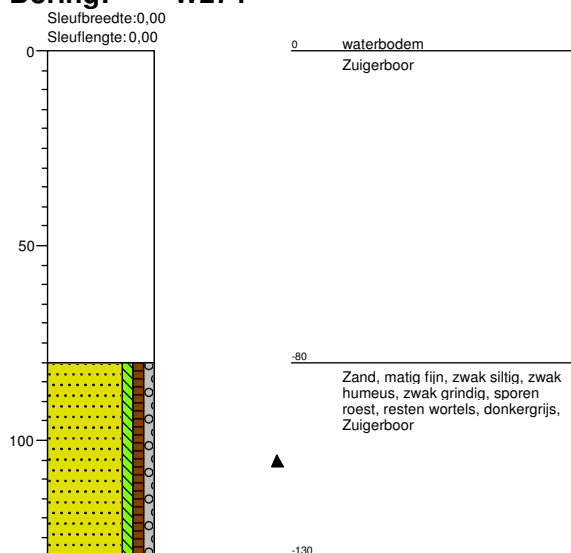
Boring: W272



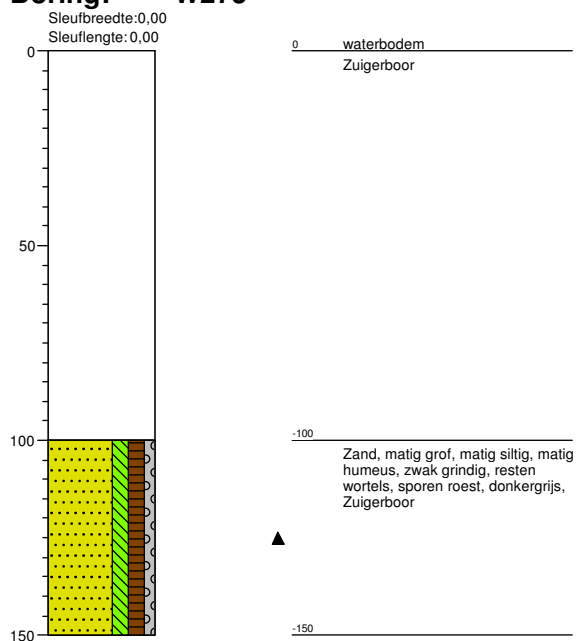
Boring: W273



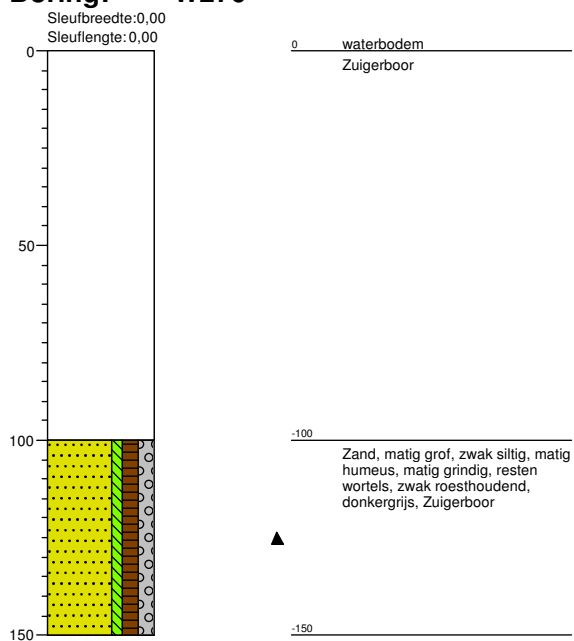
Boring: W274



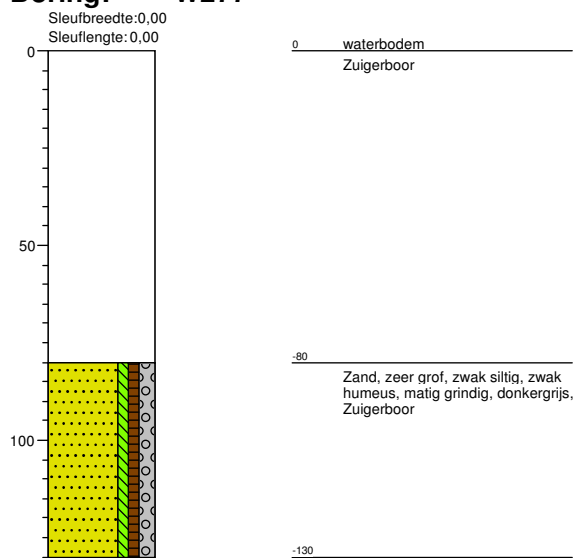
Boring: W275



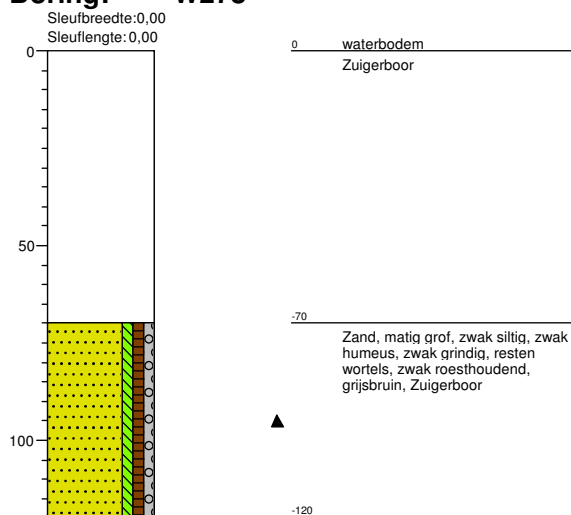
Boring: W276



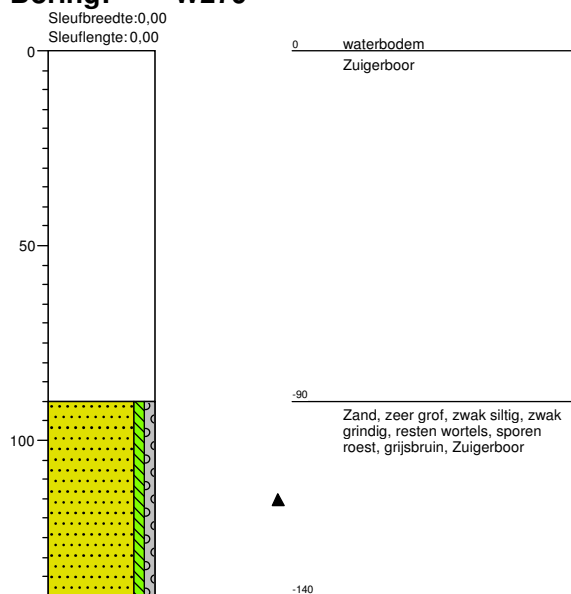
Boring: W277



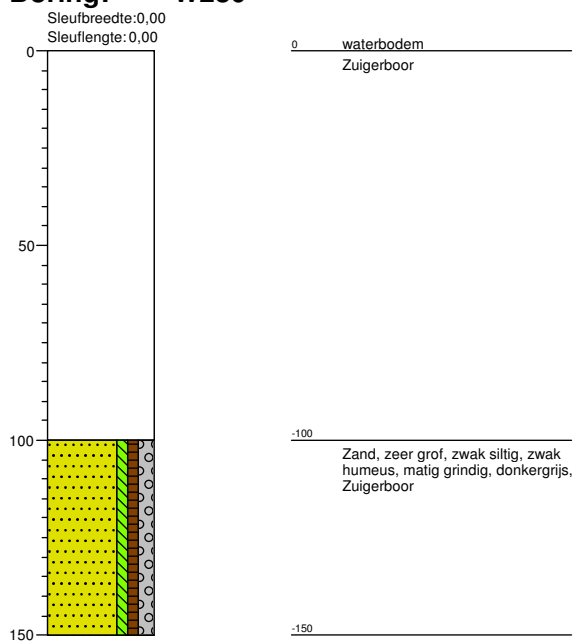
Boring: W278



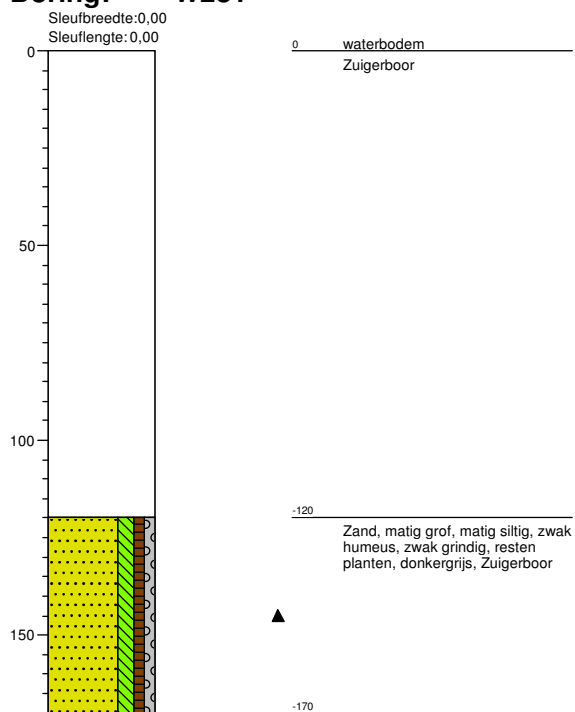
Boring: W279



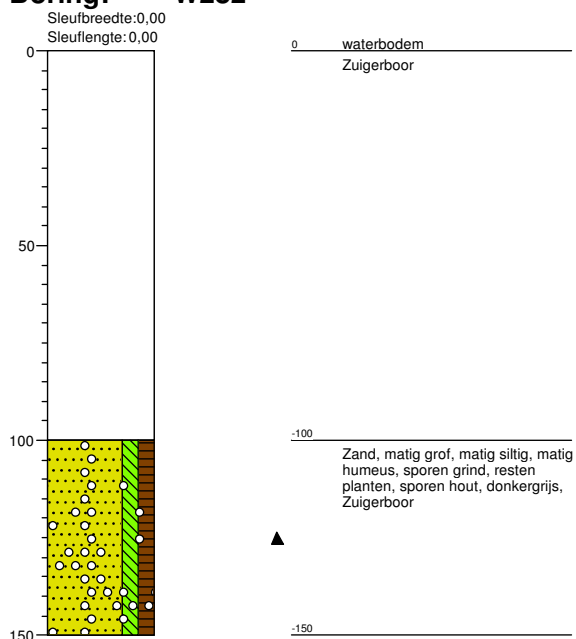
Boring: W280



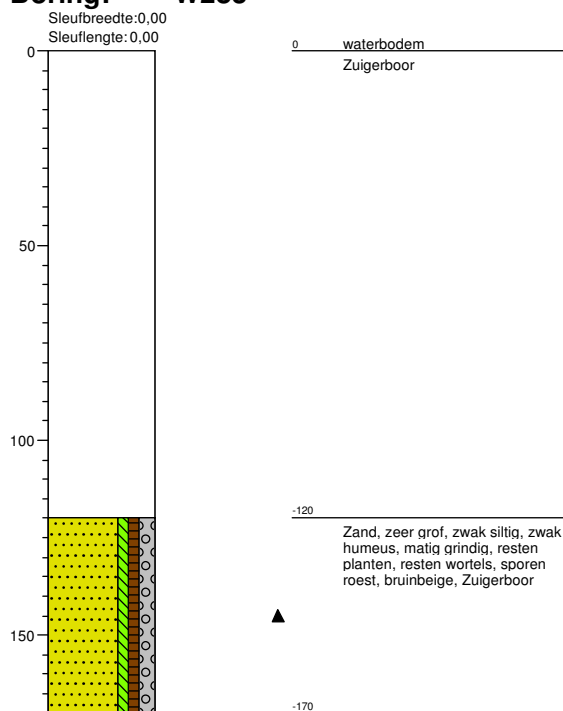
Boring: W281



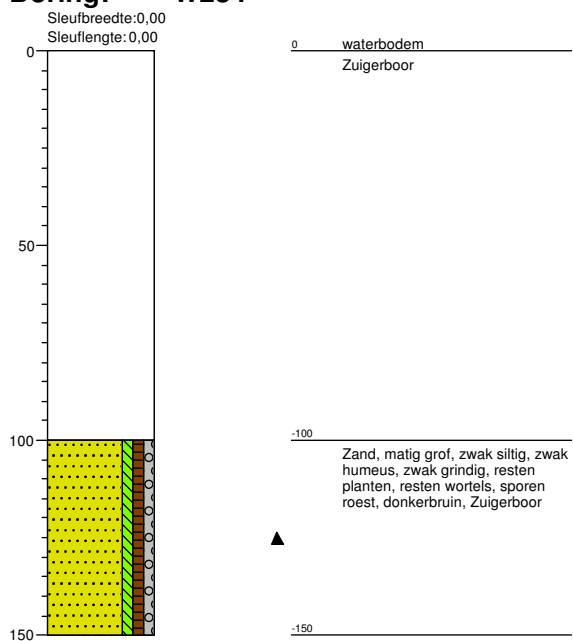
Boring: W282



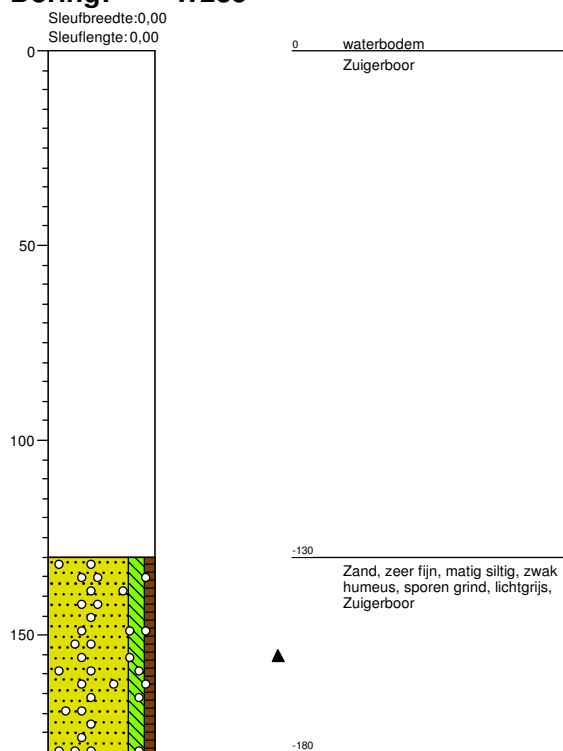
Boring: W283



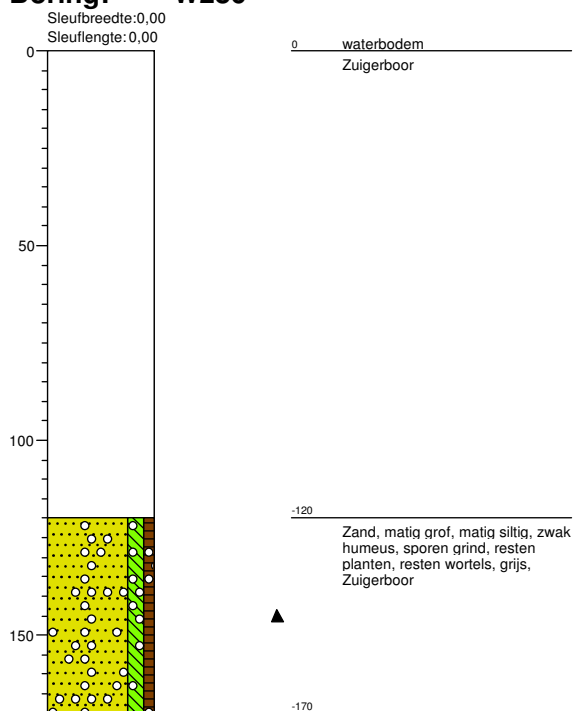
Boring: W284



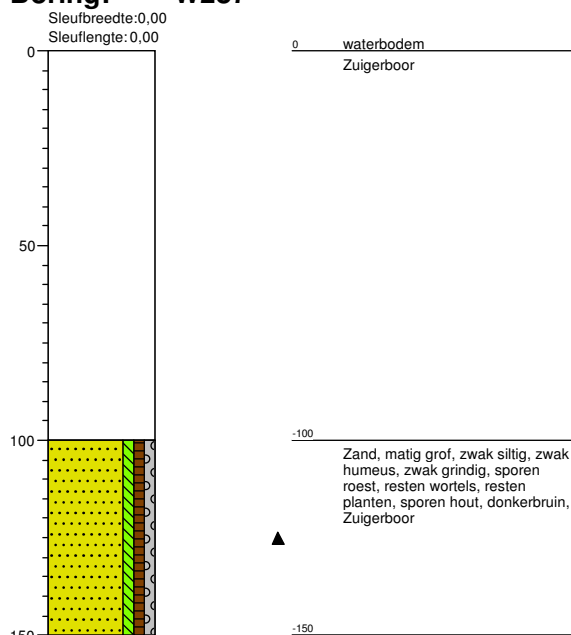
Boring: W285



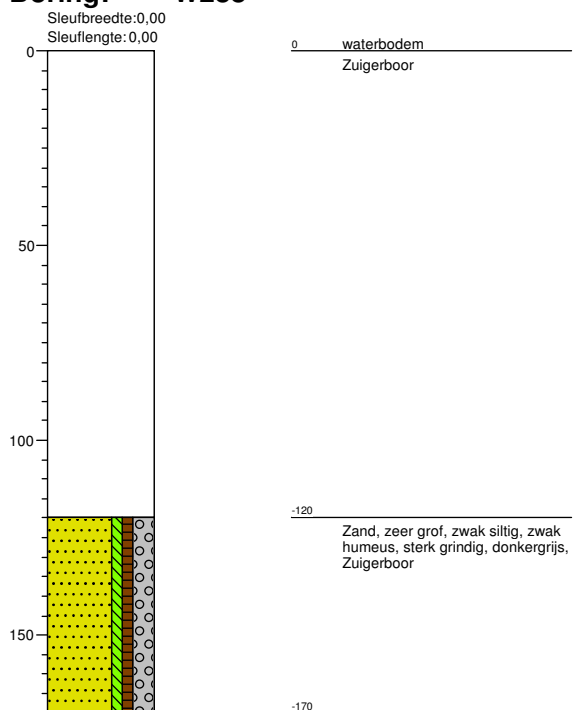
Boring: W286



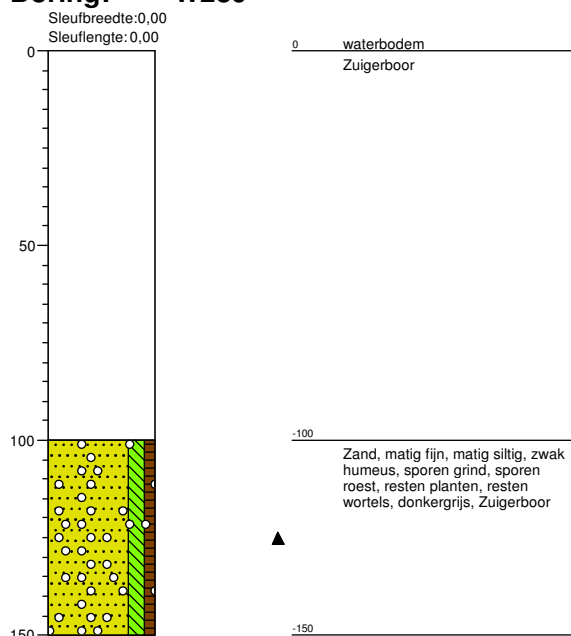
Boring: W287



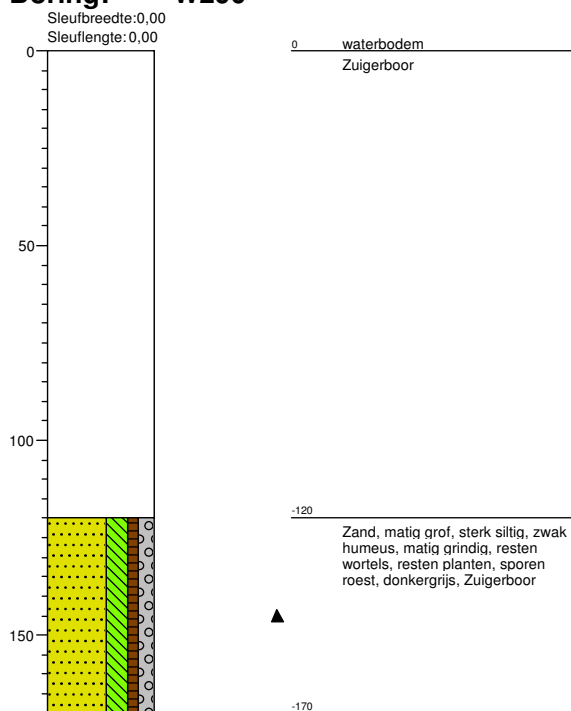
Boring: W288



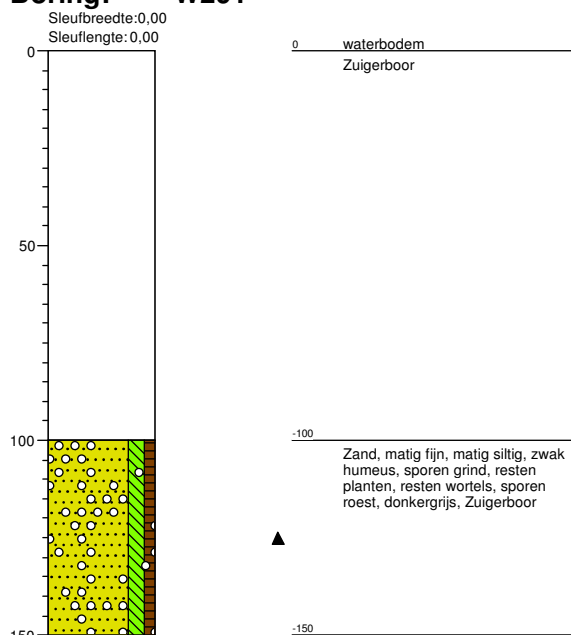
Boring: W289



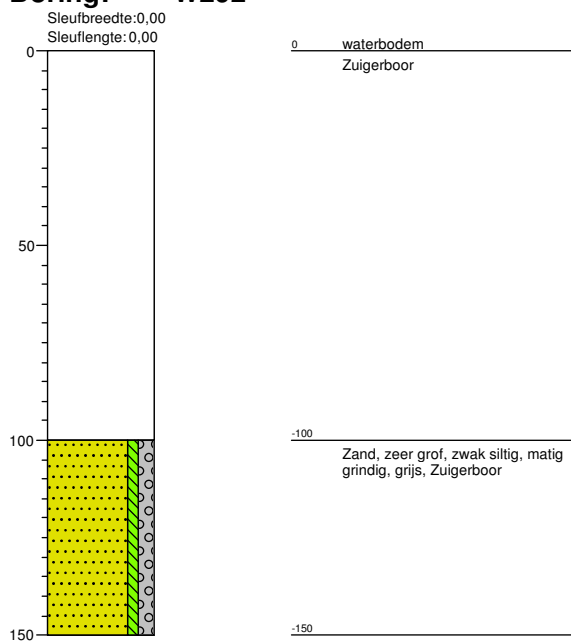
Boring: W290



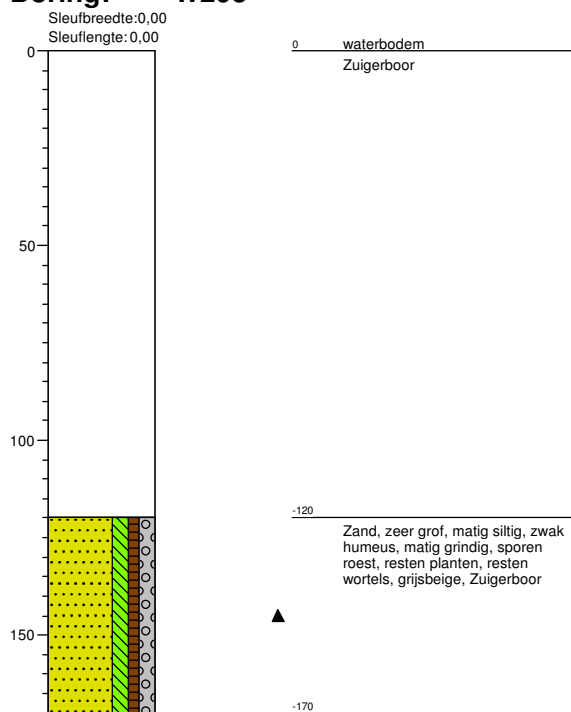
Boring: W291



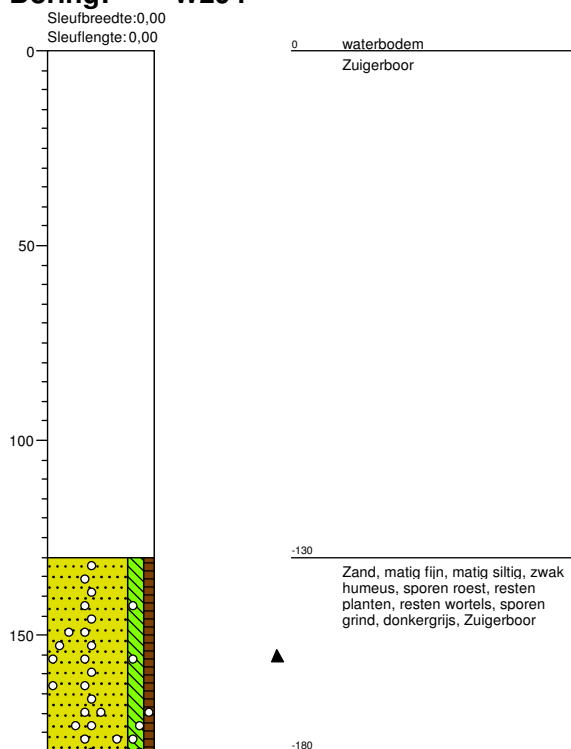
Boring: W292



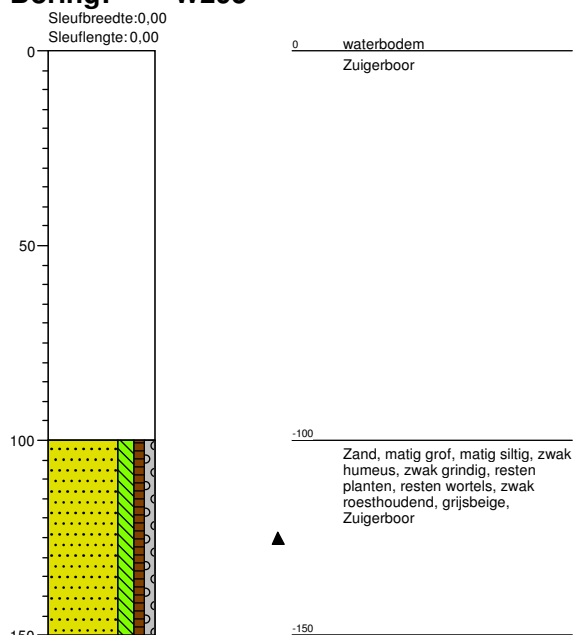
Boring: W293



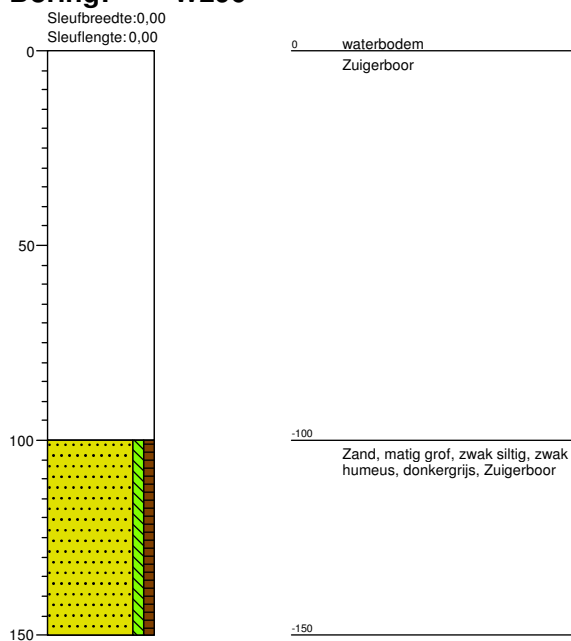
Boring: W294



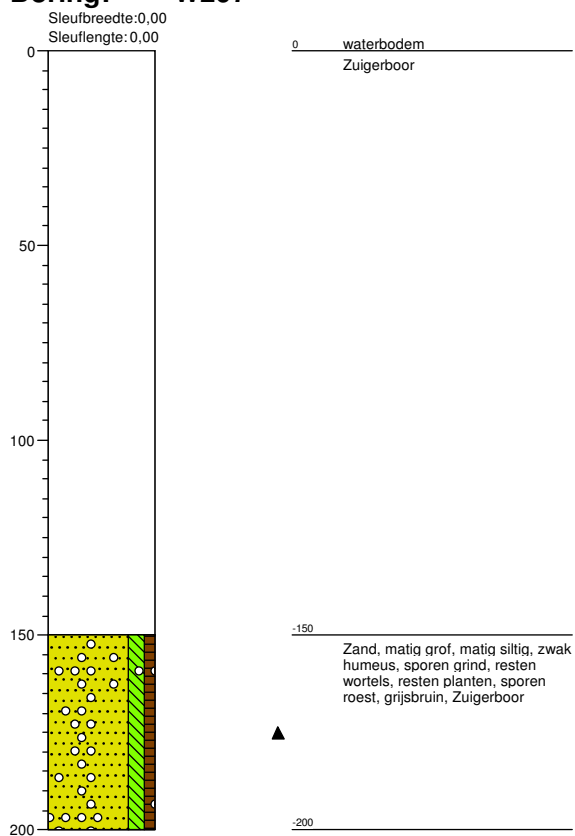
Boring: W295



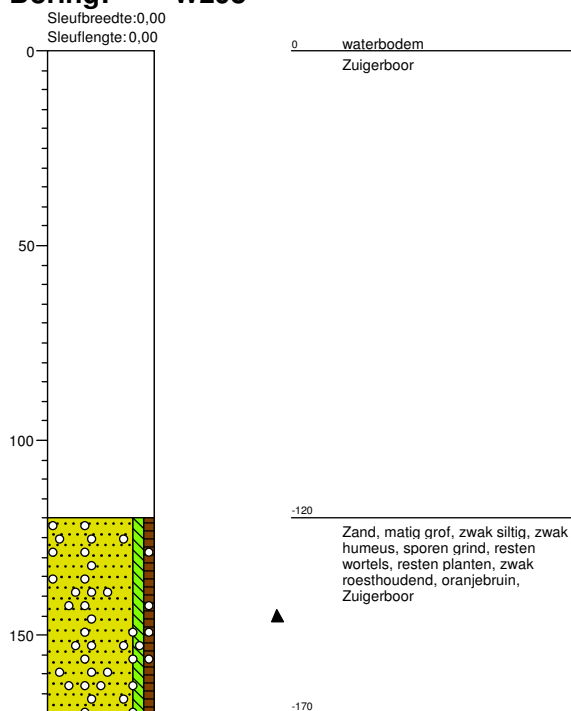
Boring: W296



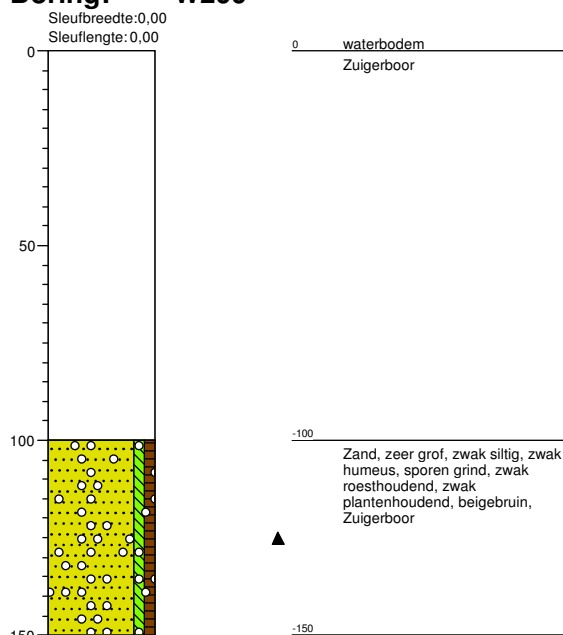
Boring: W297



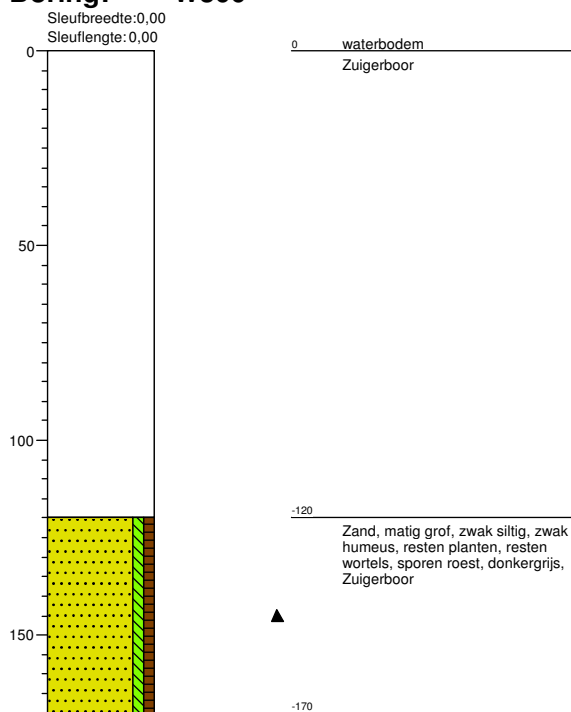
Boring: W298



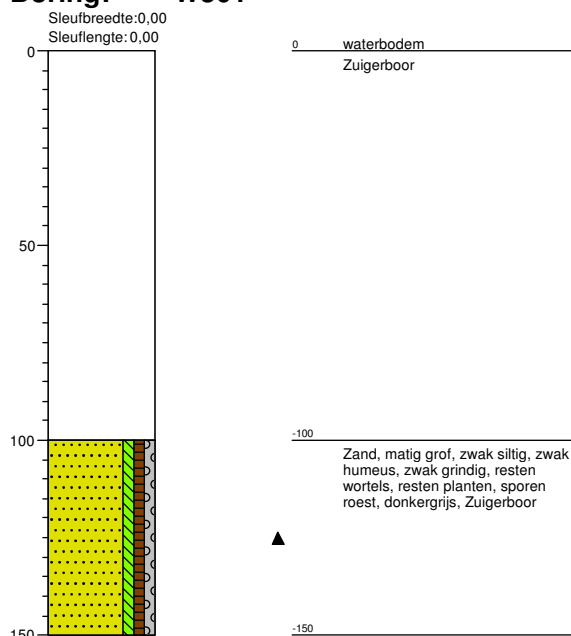
Boring: W299



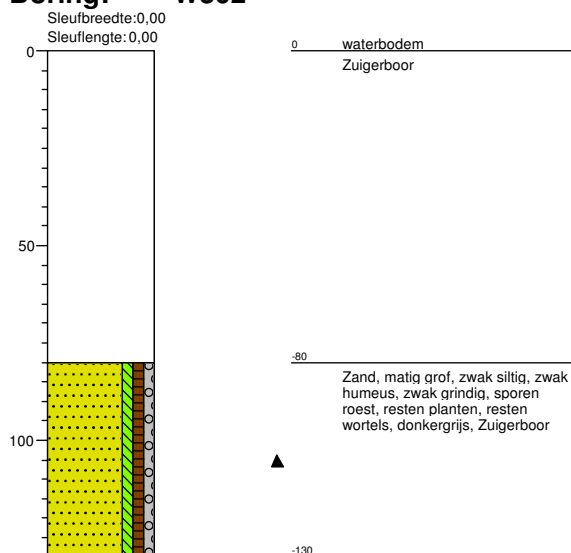
Boring: W300



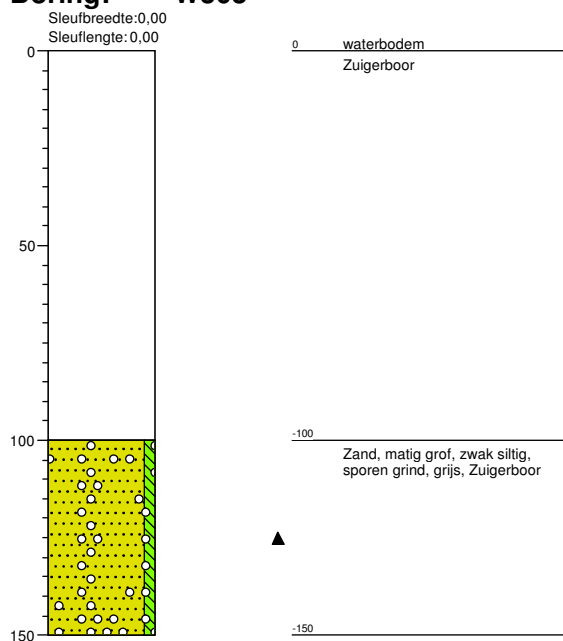
Boring: W301



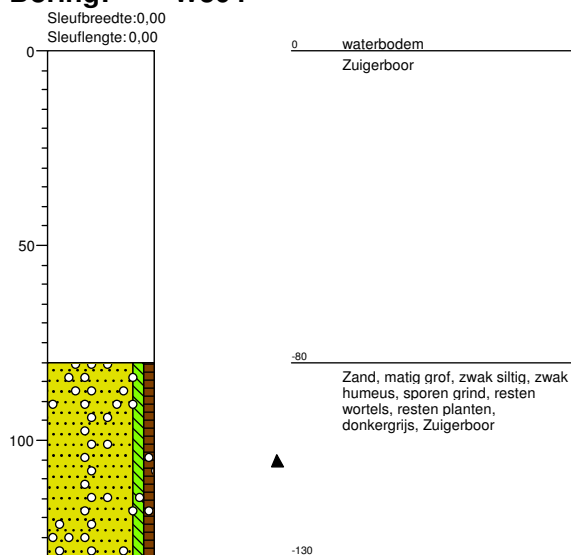
Boring: W302



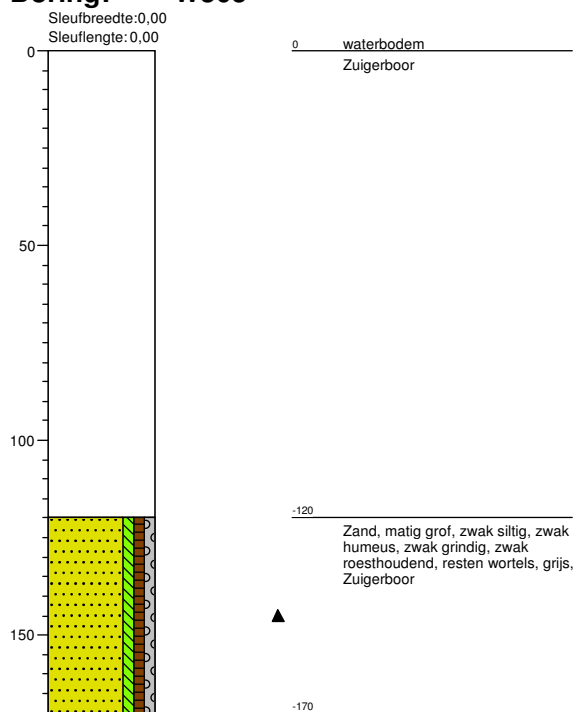
Boring: W303



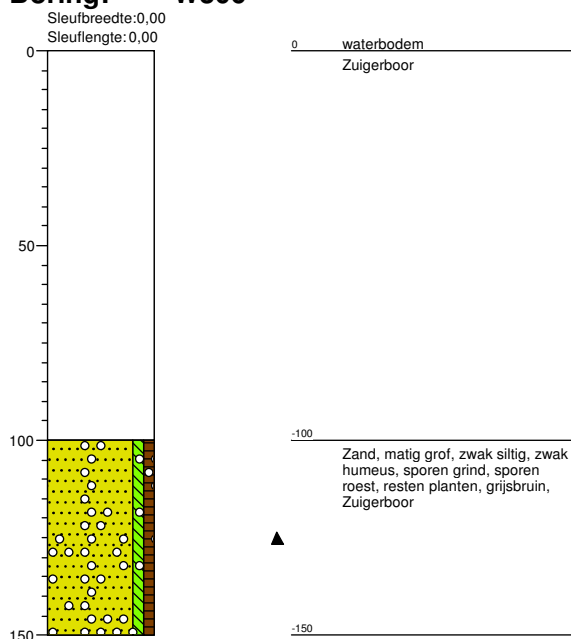
Boring: W304



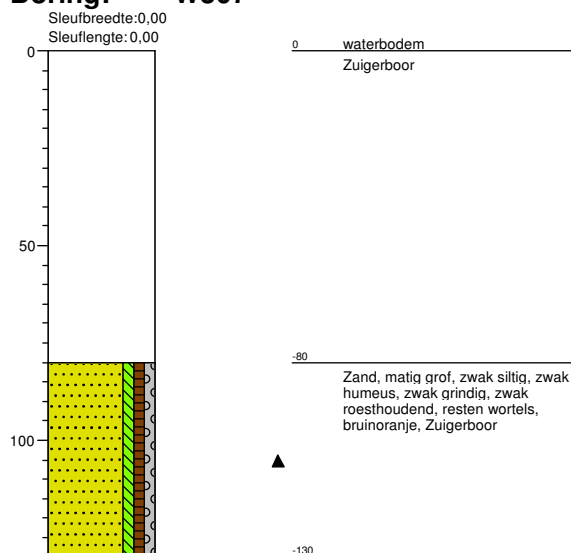
Boring: W305



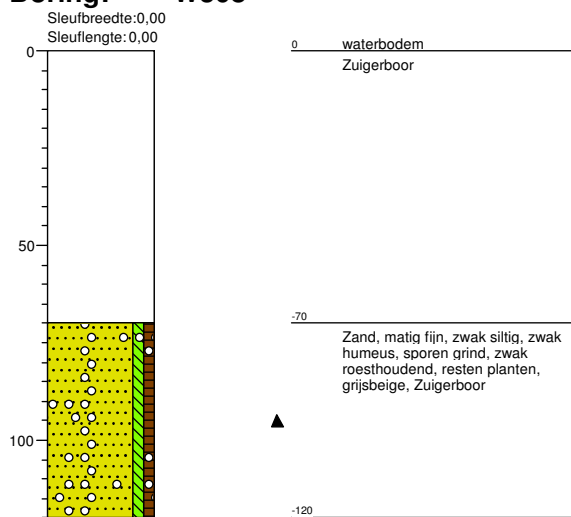
Boring: W306



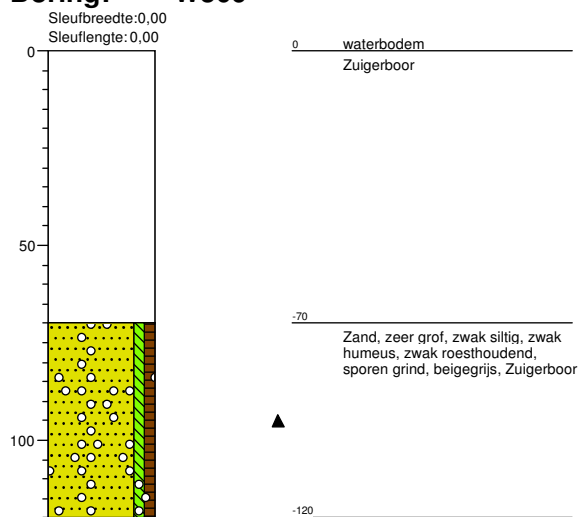
Boring: W307



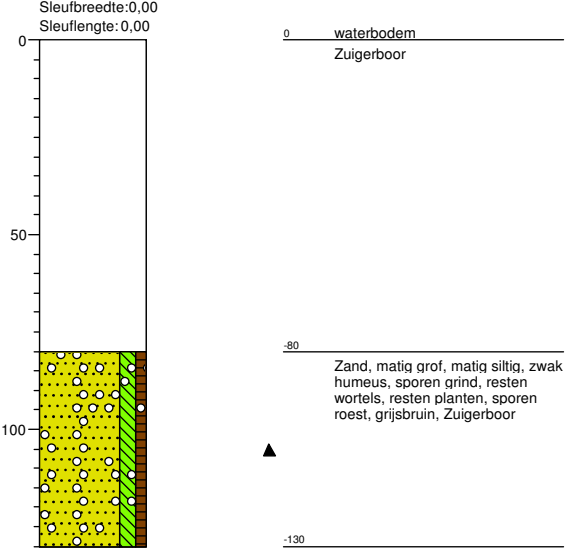
Boring: W308



Boring: W309



Boring: W310





BIJLAGE 4
LABORATORIUMCERTIFICATEN

MIL.TECH.ADV.BUREAU HEEL

Postbus 5049
6097 ZG HEEL

Blad 1 van 42

Uw projectnaam : Eckeltsebeek te Bergen
Uw projectnummer : 0302WAL/19
SYNLAB rapportnummer : 13132266, versienummer: 2
Rapport-verificatienummer : U5Z77638

Rotterdam, 20-11-2019

Geachte heer/mevrouw,

Hierbij ontvangt u de analyse resultaten van het laboratoriumonderzoek ten behoeve van uw project 0302WAL/19. Het onderzoek werd uitgevoerd conform uw opdracht. De gerapporteerde resultaten hebben uitsluitend betrekking op de geteste monsters. De door u aangegeven omschrijvingen voor de monsters, het project en de monsternamedatum (indien aangeleverd) zijn overgenomen in dit analyserapport.

Het onderzoek is uitgevoerd door SYNLAB Analytics & Services B.V., gevestigd aan de Steenhouwerstraat 15 in Rotterdam (NL). Indien het onderzoek is uitgevoerd door derden of het SYNLAB laboratorium in Frankrijk (99-101 Avenue Louis Roche, Gennevilliers) is dit in het rapport aangegeven.

Dit analyserapport bestaat inclusief bijlagen uit 42 pagina's. In geval van een versienummer van '2' of hoger vervallen de voorgaande versies. Alle bijlagen maken onlosmakelijk onderdeel uit van het rapport. Alleen vermenigvuldiging van het hele rapport is toegestaan.

Mocht u vragen en/of opmerkingen hebben naar aanleiding van dit rapport, bijvoorbeeld als u nadere informatie nodig heeft over de meetonzekerheid van de analyseresultaten in dit rapport, dan verzoeken wij u vriendelijk contact op te nemen met de afdeling Customer Support.

Wij vertrouwen er op u met deze informatie van dienst te zijn.

Hoogachtend,

Technical Director

Analyserapport

Projectnaam Eckeltsebeek te Bergen
Projectnummer 0302WAL/19
Rapportnummer 13132266 - 2

Orderdatum 24-10-2019
Startdatum 24-10-2019
Rapportagedatum 20-11-2019

Nummer	Monstersoort	Monsterspecificatie					
001	Grond (AS3000)	MM D01 1-1 (0-50) 1-2 (0-50) 1-3 (0-50)					
002	Grond (AS3000)	MM D02 1-3 (50-100)					
003	Grond (AS3000)	MM D03 2-1 (0-50) 2-2 (0-50) 2-3 (0-50)					
004	Grond (AS3000)	MM D04 2-3 (50-100)					
005	Grond (AS3000)	MM D05 3-1 (0-50) 3-2 (0-50) 3-3 (0-50)					

Analyse	Eenheid	Q	001	002	003	004	005
droge stof	gew.-%	S	90.9	91.3	88.4	92.1	91.2
gewicht artefacten	g	S	<1	<1	<1	<1	<1
aard van de artefacten	-	S	geen	geen	geen	geen	geen
<i>ANALYSES UITGEVOERD DOOR DERDEN</i>							
som PFOA (0.7 factor)	µg/kgds		0.14 ^{1) 2)}	0.14 ^{1) 2)}	0.22 ^{1) 2)}	0.14 ¹⁾	0.14 ^{1) 2)}
som PFOS (0.7 factor)	µg/kgds		0.21 ^{1) 2)}	0.14 ^{1) 2)}	0.28 ^{1) 2)}	0.14 ¹⁾	0.34 ^{1) 2)}
PFAS (30) en GENX			zie bijlage	zie bijlage	zie bijlage	zie bijlage	zie bijlage

De met S gemerkte analyses zijn geaccrediteerd en vallen onder de AS3000-erkenning.

Paraaf :

Analyserapport

Projectnaam Eckeltsebeek te Bergen
Projectnummer 0302WAL/19
Rapportnummer 13132266 - 2

Orderdatum 24-10-2019
Startdatum 24-10-2019
Rapportagedatum 20-11-2019

Monster beschrijvingen

- | | |
|-----|---|
| 001 | <ul style="list-style-type: none"> * Het resultaat is gewijzigd naar aanleiding van nader laboratoriumonderzoek. * De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk. |
| 002 | <ul style="list-style-type: none"> * Het resultaat is gewijzigd naar aanleiding van nader laboratoriumonderzoek. * De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk. |
| 003 | <ul style="list-style-type: none"> * Het resultaat is gewijzigd naar aanleiding van nader laboratoriumonderzoek. * De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk. |
| 004 | <ul style="list-style-type: none"> * De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk. |
| 005 | <ul style="list-style-type: none"> * Het resultaat is gewijzigd naar aanleiding van nader laboratoriumonderzoek. * De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk. |

Voetnoten

- | | |
|---|---|
| 1 | De sommatie na verrekening van de 0.7 factor conform AS3000, berekening uitgevoerd door SYNLAB A&S B.V. (Rotterdam) |
| 2 | De sommatie na verrekening van de 0.7 factor voor <-waarden volgens BoToVa. Deze berekening is uitgevoerd door SYNLAB A&S B.V. (Rotterdam). De analyse is uitbesteed. |

Paraaf :

Analyserapport

Projectnaam Eckeltsebeek te Bergen
 Projectnummer 0302WAL/19
 Rapportnummer 13132266 - 2

Orderdatum 24-10-2019
 Startdatum 24-10-2019
 Rapportagedatum 20-11-2019

Nummer	Monstersoort	Monsterspecificatie					
006	Grond (AS3000)	MM D06 3-3 (50-100)					
007	Grond (AS3000)	MM D07 4-1 (0-50) 4-2 (0-50) 4-3 (0-50)					
008	Grond (AS3000)	MM D08 4-3 (50-100)					
009	Grond (AS3000)	MM D09 5-1 (0-50) 5-2 (0-50) 5-3 (0-50)					
010	Grond (AS3000)	MM D10 5-3 (50-100)					

Analyse	Eenheid	Q	006	007	008	009	010
droge stof	gew.-%	S	93.8	83.9	91.7	88.9	88.5
gewicht artefacten	g	S	<1	<1	<1	<1	<1
aard van de artefacten	-	S	geen	geen	geen	geen	geen
<i>ANALYSES UITGEVOERD DOOR DERDEN</i>							
som PFOA (0.7 factor)	µg/kgds		0.21 ^{1) 2)}	0.14 ^{1) 2)}	0.14 ^{1) 2)}	0.14 ^{1) 2)}	0.51 ^{1) 2)}
som PFOS (0.7 factor)	µg/kgds		0.14 ^{1) 2)}	0.42 ^{1) 2)}	0.27 ^{1) 2)}	0.28 ^{1) 2)}	0.14 ^{1) 2)}
PFAS (30) en GENX			zie bijlage	zie bijlage	zie bijlage	zie bijlage	zie bijlage

De met S gemerkte analyses zijn geaccrediteerd en vallen onder de AS3000-erkenning.

Paraaf :

Analyserapport

Projectnaam Eckeltsebeek te Bergen
Projectnummer 0302WAL/19
Rapportnummer 13132266 - 2

Orderdatum 24-10-2019
Startdatum 24-10-2019
Rapportagedatum 20-11-2019

Monster beschrijvingen

- | | |
|-----|---|
| 006 | <ul style="list-style-type: none"> * Het resultaat is gewijzigd naar aanleiding van nader laboratoriumonderzoek. * De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk. |
| 007 | <ul style="list-style-type: none"> * Het resultaat is gewijzigd naar aanleiding van nader laboratoriumonderzoek. * De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk. |
| 008 | <ul style="list-style-type: none"> * Het resultaat is gewijzigd naar aanleiding van nader laboratoriumonderzoek. * De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk. |
| 009 | <ul style="list-style-type: none"> * Het resultaat is gewijzigd naar aanleiding van nader laboratoriumonderzoek. * De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk. |
| 010 | <ul style="list-style-type: none"> * Het resultaat is gewijzigd naar aanleiding van nader laboratoriumonderzoek. * De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk. |

Voetnoten

- | | |
|---|---|
| 1 | De sommatie na verrekening van de 0.7 factor conform AS3000, berekening uitgevoerd door SYNLAB A&S B.V. (Rotterdam) |
| 2 | De sommatie na verrekening van de 0.7 factor voor <-waarden volgens BoToVa. Deze berekening is uitgevoerd door SYNLAB A&S B.V. (Rotterdam). De analyse is uitbesteed. |

Paraaf :

Analysrapport

Projectnaam Eckeltsebeek te Bergen
Projectnummer 0302WAL/19
Rapportnummer 13132266 - 2

Orderdatum 24-10-2019
Startdatum 24-10-2019
Rapportagedatum 20-11-2019

Nummer	Monstersoort	Monsterspecificatie					
011	Grond (AS3000)	MM D11 6-1 (0-50) 6-2 (0-50) 6-3 (0-50)					
012	Grond (AS3000)	MM D12 6-3 (50-100)					
013	Grond (AS3000)	MM D13 7-1 (0-50) 7-2 (0-50) 7-3 (0-50)					
014	Grond (AS3000)	MM D14 7-3 (50-100)					
015	Grond (AS3000)	MM D15 8-1 (0-50) 8-2 (0-50)					

Analyse	Eenheid	Q	011	012	013	014	015
droge stof	gew.-%	S	84.5	91.9	87.6	85.3	86.3
gewicht artefacten	g	S	<1	<1	<1	<1	<1
aard van de artefacten	-	S	geen	geen	geen	geen	geen
<i>ANALYSES UITGEVOERD DOOR DERDEN</i>							
som PFOA (0.7 factor)	µg/kgds		0.51 ^{1) 2)}	0.49 ^{1) 2)}	0.25 ^{1) 2)}	0.17 ^{1) 2)}	0.14 ^{1) 2)}
som PFOS (0.7 factor)	µg/kgds		1.97 ^{1) 2)}	1.37 ^{1) 2)}	0.43 ^{1) 2)}	0.14 ^{1) 2)}	0.4 ^{1) 2)}
PFAS (30) en GENX			zie bijlage	zie bijlage	zie bijlage	zie bijlage	zie bijlage

De met S gemerkte analyses zijn geaccrediteerd en vallen onder de AS3000-erkenning.

Paraaf :

Analyserapport

Projectnaam Eckeltsebeek te Bergen
 Projectnummer 0302WAL/19
 Rapportnummer 13132266 - 2

Orderdatum 24-10-2019
 Startdatum 24-10-2019
 Rapportagedatum 20-11-2019

Monster beschrijvingen

- | | |
|-----|---|
| 011 | <ul style="list-style-type: none"> * Het resultaat is gewijzigd naar aanleiding van nader laboratoriumonderzoek. * De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk. |
| 012 | <ul style="list-style-type: none"> * Het resultaat is gewijzigd naar aanleiding van nader laboratoriumonderzoek. * De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk. |
| 013 | <ul style="list-style-type: none"> * Het resultaat is gewijzigd naar aanleiding van nader laboratoriumonderzoek. * De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk. |
| 014 | <ul style="list-style-type: none"> * Het resultaat is gewijzigd naar aanleiding van nader laboratoriumonderzoek. * De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk. |
| 015 | <ul style="list-style-type: none"> * Het resultaat is gewijzigd naar aanleiding van nader laboratoriumonderzoek. * De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk. |

Voetnoten

- | | |
|---|---|
| 1 | De sommatie na verrekening van de 0.7 factor conform AS3000, berekening uitgevoerd door SYNLAB A&S B.V. (Rotterdam) |
| 2 | De sommatie na verrekening van de 0.7 factor voor <-waarden volgens BoToVa. Deze berekening is uitgevoerd door SYNLAB A&S B.V. (Rotterdam). De analyse is uitbesteed. |

Paraaf :

Analysrapport

Projectnaam Eckeltsebeek te Bergen
Projectnummer 0302WAL/19
Rapportnummer 13132266 - 2

Orderdatum 24-10-2019
Startdatum 24-10-2019
Rapportagedatum 20-11-2019

Nummer	Monstersoort	Monsterspecificatie
016	Grond (AS3000)	MM D16 8-3 (50-100)

Analyse	Eenheid	Q	016
droge stof	gew.-%	S	85.2
gewicht artefacten	g	S	<1
aard van de artefacten	-	S	geen
<i>ANALYSES UITGEVOERD DOOR DERDEN</i>			
som PFOA (0.7 factor)	µg/kgds		0.14 ^{1) 2)}
som PFOS (0.7 factor)	µg/kgds		0.14 ^{1) 2)}
PFAS (30) en GENX			zie bijlage

De met S gemerkte analyses zijn geaccrediteerd en vallen onder de AS3000-erkenning.

Paraaf :

Analyserapport

Projectnaam Eckeltsebeek te Bergen
Projectnummer 0302WAL/19
Rapportnummer 13132266 - 2

Orderdatum 24-10-2019
Startdatum 24-10-2019
Rapportagedatum 20-11-2019

Monster beschrijvingen

- 016 *
- * Het resultaat is gewijzigd naar aanleiding van nader laboratoriumonderzoek.
- * De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk.

Voetnoten

- 1 De sommatie na verrekening van de 0.7 factor conform AS3000, berekening uitgevoerd door SYNLAB A&S B.V. (Rotterdam)
- 2 De sommatie na verrekening van de 0.7 factor voor <-waarden volgens BoToVa. Deze berekening is uitgevoerd door SYNLAB A&S B.V. (Rotterdam). De analyse is uitbesteed.

Paraaf :

Analyserapport

Projectnaam Eckeltsebeek te Bergen
Projectnummer 0302WAL/19
Rapportnummer 13132266 - 2

Orderdatum 24-10-2019
Startdatum 24-10-2019
Rapportagedatum 20-11-2019

Analyse	Monstersoort	Relatie tot norm
droge stof	Grond (AS3000)	Grond: Gelijkwaardig aan ISO 11465 en gelijkwaardig aan NEN-EN 15934 (monstervoorbehandeling conform NEN-EN 16179). Grond (AS3000): conform AS3010-2 en gelijkwaardig aan NEN-EN 15934
gewicht artefacten	Grond (AS3000)	Conform AS3000 en conform NEN-EN 16179
aard van de artefacten	Grond (AS3000)	Idem
som PFOA (0.7 factor)	Grond (AS3000)	Analyse uitbesteed
som PFOS (0.7 factor)	Grond (AS3000)	Idem
PFAS (30) en GENX	Grond (AS3000)	Idem

Monster	Barcode	Aanlevering	Monstername	Verpakking
001	U9081107	24-10-2019	23-10-2019	ALC382
001	U9081113	24-10-2019	23-10-2019	ALC382
001	U9081112	24-10-2019	23-10-2019	ALC382
002	U9081108	24-10-2019	23-10-2019	ALC382
003	U9081118	24-10-2019	23-10-2019	ALC382
003	U9081114	24-10-2019	23-10-2019	ALC382
003	U9081121	24-10-2019	23-10-2019	ALC382
004	U9081122	24-10-2019	23-10-2019	ALC382
005	U9081120	24-10-2019	23-10-2019	ALC382
005	U9081117	24-10-2019	23-10-2019	ALC382
005	U9081116	24-10-2019	23-10-2019	ALC382
006	U9081124	24-10-2019	23-10-2019	ALC382
007	U9081115	24-10-2019	23-10-2019	ALC382
007	U9081111	24-10-2019	23-10-2019	ALC382
007	U9081198	24-10-2019	23-10-2019	ALC382
008	U9081197	24-10-2019	23-10-2019	ALC382
009	U9081203	24-10-2019	23-10-2019	ALC382
009	U9081199	24-10-2019	23-10-2019	ALC382
009	U9081204	24-10-2019	23-10-2019	ALC382
010	U9081200	24-10-2019	23-10-2019	ALC382
011	U9081187	24-10-2019	23-10-2019	ALC382
011	U9081192	24-10-2019	23-10-2019	ALC382
011	U9081191	24-10-2019	23-10-2019	ALC382
012	U9081188	24-10-2019	23-10-2019	ALC382
013	U9081206	24-10-2019	23-10-2019	ALC382
013	U9081190	24-10-2019	23-10-2019	ALC382
013	U9081194	24-10-2019	23-10-2019	ALC382
014	U9081202	24-10-2019	23-10-2019	ALC382
015	U9081146	24-10-2019	23-10-2019	ALC382
015	U9081142	24-10-2019	23-10-2019	ALC382
016	U9081134	24-10-2019	23-10-2019	ALC382

Paraaf :



SYNLAB Analytics & Services Sweden AB

Box 1083, 581 10 Linköping, Sweden
Tel: + 46 13 254 900 - Fax: + 46 13 121 728
Registered 556152-0916 Registered office: Linköping, Sweden



Akred. nr 1006
Provvning
ISO/IEC 17025



REPORT

Page 1 (2)

issued by an Accredited Laboratory

Report No. 19475188

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Soil

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-10-31
Time of Arrival : 1100
Temperature at arrival :

Sample name : (13132266-001) MM D01 1-1 (0-50) 1-2 (0-50) 1-3 (
Sampling date : 2019-10-23
Sampler : -
Depth of sampling : -
Invoice reference : P91492
Label-id @mis : 87801648

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
SS-ISO 11465	Dry substance	91.6	± 9.16	%
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluoropentanoic acid, PFPeA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, linear	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOA, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorononanoic acid, PFNA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic acid, PFDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorundec. acid, PFUnDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorododec. acid, PFDoDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluortridec. acid, PFTrDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluortetradec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorhexadec. acid, PFHxDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluoroctadec. acid, PFODA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	0.14	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, branched	< 0.1	± 0.10	ug/kg TS

(*) :Method not accredited by Swedac

PFOA = Perfluorooctanoic acid PFOS = Perfluorooctane sulfonate

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

(continued)

Results refer only to the submitted sample. Unless the laboratory has written otherwise, the report may only be reproduced in its entirety.



SYNLAB Analytics & Services Sweden AB
Box 1083, 581 10 Linköping, Sweden
Tel: + 46 13 254 900 - Fax: + 46 13 121 728
Registered 556152-0916 Registered office: Linköping, Sweden



Akred. nr 1006
Provning
ISO/IEC 17025



REPORT

Page 2 (2)

issued by an Accredited Laboratory

Report No. 19475188

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Soil

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-10-31
Time of Arrival : 1100
Temperature at arrival :

Sample name : (13132266-001) MM D01 1-1 (0-50) 1-2 (0-50) 1-3 (
Sampling date : 2019-10-23
Sampler : -
Depth of sampling : -
Invoice reference : P91492
Label-id @mis : 87801648

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
Calculated	PFOS, total	0.14	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic sulpho. PFDS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-EFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorocta.sulp.amid,PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Comment

All results for PFAS, except for PFOS and PFOA, refer to linear isomers.

This report replaces the previously posted with the same report no. Modification of results relating to PFAS.

Linköping 2019-11-07

The report has been reviewed and approved by

Responsible reviewer

Control numbers 1116 8804 5622 4582

Results refer only to the submitted sample. Unless the laboratory has written otherwise, the report may only be reproduced in its entirety.


SYNLAB Analytics & Services Sweden AB

Box 1083, 581 10 Linköping, Sweden
Tel: + 46 13 254 900 - Fax: + 46 13 121 728
Registered 556152-0916 Registered office: Linköping, Sweden



Akred. nr 1006
Provnings
ISO/IEC 17025


REPORT

Page 1 (2)

issued by an Accredited Laboratory
Report No. 19475189
Assigner
**SYNLAB Analytics & Services BV
Rotterdam**
**Steenhouwerstraat 15
3194AG ROTTERDAM, NL**
Applies to
Soil
Level 1 : Rotterdam Nautilus Order
Information about sample and sampling

Date of Arrival : 2019-10-31
Time of Arrival : 1100
Temperature at arrival :

Sample name : (13132266-002) MM D02 1-3 (50-100)
Sampling date : 2019-10-23
Sampler : -
Depth of sampling : -
Invoice reference : P91492
Label-id @mis : 87771911

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
SS-ISO 11465	Dry substance	92.0	± 9.20	%
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluoropentanoic acid, PFPeA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, linear	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOA, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorononanoic acid, PFNA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic acid, PFDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorundec. acid, PFUnDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorododec. acid, PFDoDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluortridec. acid, PFTrDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluortetradec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorhexadec. acid, PFHxDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluoroctadec. acid, PFODA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, branched	< 0.1	± 0.10	ug/kg TS

(*) :Method not accredited by Swedac

PFOA = Perfluorooctane acid PFOS = Perfluorooctane sulfonate

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

(continued)

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SYNLAB Analytics & Services Sweden AB
 Box 1083, 581 10 Linköping, Sweden
 Tel: + 46 13 254 900 - Fax: + 46 13 121 728
 Registered 556152-0916 Registered office: Linköping, Sweden



Akred. nr 1006
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REPORT

Page 2 (2)

issued by an Accredited Laboratory

Report No. 19475189

Assigner

SYNLAB Analytics & Services BV
 Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Soil

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-10-31
 Time of Arrival : 1100
 Temperature at arrival :

Sample name : (13132266-002) MM D02 1-3 (50-100)
 Sampling date : 2019-10-23
 Sampler : -
 Depth of sampling : -
 Invoice reference : P91492
 Label-id @mis : 87771911

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
Calculated	PFOS, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic sulpho. PFDS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-EFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorocta.sulp.amid,PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Comment

All results for PFAS, except for PFOS and PFOA, refer to linear isomers.

This report replaces the previously posted with the same report no. Modification of results relating to PFAS.

Linköping 2019-11-07

The report has been reviewed and approved by

Responsible reviewer

Control numbers 1016 8605 5828 4484

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Box 1083, 581 10 Linköping, Sweden
Tel: + 46 13 254 900 - Fax: + 46 13 121 728
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REPORT

Page 1 (2)

issued by an Accredited Laboratory

Report No. 19475190

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Soil

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-10-31
Time of Arrival : 1100
Temperature at arrival :

Sample name : (13132266-003) MM D03 2-1 (0-50) 2-2 (0-50) 2-3 (
Sampling date : 2019-10-23
Sampler : -
Depth of sampling : -
Invoice reference : P91492
Label-id @mis : 87801699

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
SS-ISO 11465	Dry substance	88.8	± 8.88	%
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluoropentanoic acid, PFPeA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, linear	0.15	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOA, total	0.15	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorononanoic acid, PFNA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic acid, PFDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorundec. acid, PFUnDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordodec. acid, PFDoDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluortridec. acid, PFTrDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluortetradec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorhexadec. acid, PFHxDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluoroctadec. acid, PFODA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	0.21	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, branched	< 0.1	± 0.10	ug/kg TS

(*) :Method not accredited by Swedac

PFOA = Perfluorooctanoic acid PFOS = Perfluorooctane sulfonate

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

(continued)

Results refer only to the submitted sample. Unless the laboratory has written otherwise, the report may only be reproduced in its entirety.



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Tel: + 46 13 254 900 - Fax: + 46 13 121 728
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REPORT

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Report No. 19475190

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Soil

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-10-31
Time of Arrival : 1100
Temperature at arrival :

Sample name : (13132266-003) MM D03 2-1 (0-50) 2-2 (0-50) 2-3 (
Sampling date : 2019-10-23
Sampler : -
Depth of sampling : -
Invoice reference : P91492
Label-id @mis : 87801699

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
Calculated	PFOS, total	0.21	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic sulpho. PFDS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-EFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorocta.sulp.amid,PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Comment

All results for PFAS, except for PFOS and PFOA, refer to linear isomers.

This report replaces the previously posted with the same report no. Modification of results relating to PFAS.

Linköping 2019-11-07

The report has been reviewed and approved by

Responsible reviewer

Control numbers 0169 8902 5220 4588

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SYNLAB Analytics & Services Sweden AB

Box 1083, 581 10 Linköping, Sweden

Tel: + 46 13 254 900 - Fax: + 46 13 121 728

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REPORT

issued by an Accredited Laboratory

Page 1 (2)

Report No. 19475191

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Soil

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-10-31
Time of Arrival : 1100
Temperature at arrival :

Sample name : (13132266-004) MM D04 2-3 (50-100)
Sampling date : 2019-10-23
Sampler : -
Depth of sampling : -
Invoice reference : P91492
Label-id @mis : 87772026

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
SS-ISO 11465	Dry substance	93.0	± 9.30	%
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, linear	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOA, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorononanoic acid, PFNA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic acid, PFDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorundec. acid, PFUnDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordodec. acid, PFDoDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluortridec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluortetradec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorhexadec. acid, PFHxDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluoroctadec. acid, PFODA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, branched	< 0.1	± 0.10	ug/kg TS

(*) : Method not accredited by Swedac

PFOA = Perfluorooctane acid PFOS = Perfluorooctane sulfonate

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

(continued)

Results refer only to the submitted sample. Unless the laboratory has written otherwise, the report may only be reproduced in its entirety.


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Tel: + 46 13 254 900 - Fax: + 46 13 121 728
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REPORT

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Page 2 (2)

Report No. 19475191
Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to
Soil

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-10-31
Time of Arrival : 1100
Temperature at arrival :

Sample name : (13132266-004) MM D04 2-3 (50-100)
Sampling date : 2019-10-23
Sampler : -
Depth of sampling : -
Invoice reference : P91492
Label-id @mis : 87772026

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
Calculated	PFOS, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorodecanoic sulpho. PFDS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-EtFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluoroocta. sulp. amid, PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Comment

All results for PFAS, except for PFOS and PFOA, refer to linear isomers.

Linköping 2019-11-04

The report has been reviewed and approved by

Responsible reviewer

Control numbers 0168 8707 5520 4885

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Box 1083, 581 10 Linköping, Sweden
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REPORT

Page 1 (2)

issued by an Accredited Laboratory

Report No. 19475192

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Soil

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-10-31
Time of Arrival : 1100
Temperature at arrival :

Sample name : (13132266-005) MM D05 3-1 (0-50) 3-2 (0-50) 3-3 (
Sampling date : 2019-10-23
Sampler : -
Depth of sampling : -
Invoice reference : P91492
Label-id @mis : 87801662

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
SS-ISO 11465	Dry substance	90.7	± 9.07	%
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluoropentanoic acid, PFPeA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, linear	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOA, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorononanoic acid, PFNA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic acid, PFDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorundec. acid, PFUnDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorododec. acid, PFDoDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluortridec. acid, PFTrDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluortetradec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorhexadec. acid, PFHxDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluoroctadec. acid, PFODA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	0.27	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, branched	< 0.1	± 0.10	ug/kg TS

(*) :Method not accredited by Swedac

PFOA = Perfluorooctanoic acid PFOS = Perfluorooctane sulfonate

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

(continued)



SYNLAB Analytics & Services Sweden AB
Box 1083, 581 10 Linköping, Sweden
Tel: + 46 13 254 900 - Fax: + 46 13 121 728
Registered 556152-0916 Registered office: Linköping, Sweden



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REPORT

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Page 2 (2)

Report No. 19475192

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Soil

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-10-31
Time of Arrival : 1100
Temperature at arrival :

Sample name : (13132266-005) MM D05 3-1 (0-50) 3-2 (0-50) 3-3 (
Sampling date : 2019-10-23
Sampler : -
Depth of sampling : -
Invoice reference : P91492
Label-id @mis : 87801662

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
Calculated	PFOS, total	0.27	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorodecanoic sulpho. PFDS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-EFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorocta.sulp.amid,PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Comment

All results for PFAS, except for PFOS and PFOA, refer to linear isomers.

This report replaces the previously posted with the same report no. Modification of results relating to PFAS.

Linköping 2019-11-07

The report has been reviewed and approved by

Responsible reviewer

Control numbers 0167 8806 5229 4185

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Box 1083, 581 10 Linköping, Sweden
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REPORT

Page 1 (2)

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Report No. 19475193
Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to
Soil

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-10-31
Time of Arrival : 1100
Temperature at arrival :

Sample name : (13132266-006) MM D06 3-3 (50-100)
Sampling date : 2019-10-23
Sampler : -
Depth of sampling : -
Invoice reference : P91492
Label-id @mis : 87772206

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
SS-ISO 11465	Dry substance	92.8	± 9.28	%
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluoropentanoic acid, PFPeA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, linear	0.14	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOA, total	0.14	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorononanoic acid, PFNA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic acid, PFDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorundec. acid, PFUnDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordodec. acid, PFDoDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluortridec. acid, PFTrDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluortetradec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorhexadec. acid, PFHxDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluoroctadec. acid, PFODA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, branched	< 0.1	± 0.10	ug/kg TS

(*) :Method not accredited by Swedac

PFOA = Perfluorooctanoic acid PFOS = Perfluorooctane sulfonate

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

(continued)

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SYNLAB Analytics & Services Sweden AB
Box 1083, 581 10 Linköping, Sweden
Tel: + 46 13 254 900 - Fax: + 46 13 121 728
Registered 556152-0916 Registered office: Linköping, Sweden



Akred. nr 1006
Provning
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REPORT

Page 2 (2)

issued by an Accredited Laboratory

Report No. 19475193

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Soil

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-10-31
Time of Arrival : 1100
Temperature at arrival :

Sample name : (13132266-006) MM D06 3-3 (50-100)
Sampling date : 2019-10-23
Sampler : -
Depth of sampling : -
Invoice reference : P91492
Label-id @mis : 87772206

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
Calculated	PFOS, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic sulpho. PFDS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-EFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorocta.sulp.amid,PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Comment

All results for PFAS, except for PFOS and PFOA, refer to linear isomers.

This report replaces the previously posted with the same report no. Modification of results relating to PFAS.

Linköping 2019-11-06

The report has been reviewed and approved by

Responsible reviewer

Control numbers 0166 8409 5427 4581

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Tel: + 46 13 254 900 - Fax: + 46 13 121 728
Registered 556152-0916 Registered office: Linköping, Sweden



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REPORT

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Page 2 (2)

Report No. 19475194

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Soil

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-10-31
Time of Arrival : 1100
Temperature at arrival :

Sample name : (13132266-007) MM D07 4-1 (0-50) 4-2 (0-50) 4-3 (
Sampling date : 2019-10-23
Sampler : -
Depth of sampling : -
Invoice reference : P91492
Label-id @mis : 87801720

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
Calculated	PFOS, total	0.35	± 0.11	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic sulpho. PFDS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-EFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorocta.sulp.amid,PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Comment

All results for PFAS, except for PFOS and PFOA, refer to linear isomers.

This report replaces the previously posted with the same report no. Modification of results relating to PFAS.

Linköping 2019-11-07

The report has been reviewed and approved by

Responsible reviewer

Control numbers 0165 8804 5825 4481

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Box 1083, 581 10 Linköping, Sweden
Tel: + 46 13 254 900 - Fax: + 46 13 121 728
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REPORT

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issued by an Accredited Laboratory

Report No. 19475195

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Soil

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-10-31
Time of Arrival : 1100
Temperature at arrival :

Sample name : (13132266-008) MM D08 4-3 (50-100)
Sampling date : 2019-10-23
Sampler : -
Depth of sampling : -
Invoice reference : P91492
Label-id @mis : 87745494

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
SS-ISO 11465	Dry substance	90.2	± 9.02	%
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluoropentanoic acid, PFPeA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, linear	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOA, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorononanoic acid, PFNA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic acid, PFDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorundec. acid, PFUnDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorododec. acid, PFDoDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluortridec. acid, PFTrDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluortetradec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorhexadec. acid, PFHxDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluoroctadec. acid, PFODA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	0.20	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, branched	< 0.1	± 0.10	ug/kg TS

(*) :Method not accredited by Swedac

PFOA = Perfluorooctanoic acid PFOS = Perfluorooctane sulfonate

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

(continued)

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SYNLAB Analytics & Services Sweden AB
Box 1083, 581 10 Linköping, Sweden
Tel: + 46 13 254 900 - Fax: + 46 13 121 728
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REPORT

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Page 2 (2)

Report No. 19475195

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Soil

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-10-31
Time of Arrival : 1100
Temperature at arrival :

Sample name : (13132266-008) MM D08 4-3 (50-100)
Sampling date : 2019-10-23
Sampler : -
Depth of sampling : -
Invoice reference : P91492
Label-id @mis : 87745494

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
Calculated	PFOS, total	0.20	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic sulpho. PFDS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-EFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorocta.sulp.amid,PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Comment

All results for PFAS, except for PFOS and PFOA, refer to linear isomers.

This report replaces the previously posted with the same report no. Modification of results relating to PFAS.

Linköping 2019-11-07

The report has been reviewed and approved by

Responsible reviewer

Control numbers 0164 8906 5825 4987

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SYNLAB Analytics & Services Sweden AB

Box 1083, 581 10 Linköping, Sweden
Tel: + 46 13 254 900 - Fax: + 46 13 121 728
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REPORT

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issued by an Accredited Laboratory

Report No. 19475196

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Soil

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-10-31
Time of Arrival : 1100
Temperature at arrival :

Sample name : (13132266-009) MM D09 5-1 (0-50) 5-2 (0-50) 5-3 (
Sampling date : 2019-10-23
Sampler : -
Depth of sampling : -
Invoice reference : P91492
Label-id @mis : 87801283

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
SS-ISO 11465	Dry substance	90.0	± 9.00	%
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, linear	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOA, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorononanoic acid, PFNA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic acid, PFDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorundec. acid, PFUnDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorododec. acid, PFDoDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluortridec. acid, PFTrDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluortetradec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorhexadec. acid, PFHxDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorheptadec. acid, PFHeDA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	0.21	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, branched	< 0.1	± 0.10	ug/kg TS

(*) :Method not accredited by Swedac

PFOA = Perfluorooctanoic acid PFOS = Perfluorooctane sulfonate

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

(continued)

Results refer only to the submitted sample. Unless the laboratory has written otherwise, the report may only be reproduced in its entirety.



SYNLAB Analytics & Services Sweden AB
Box 1083, 581 10 Linköping, Sweden
Tel: + 46 13 254 900 - Fax: + 46 13 121 728
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REPORT

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Page 2 (2)

Report No. 19475196

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Soil

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-10-31
Time of Arrival : 1100
Temperature at arrival :

Sample name : (13132266-009) MM D09 5-1 (0-50) 5-2 (0-50) 5-3 (
Sampling date : 2019-10-23
Sampler : -
Depth of sampling : -
Invoice reference : P91492
Label-id @mis : 87801283

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
Calculated	PFOS, total	0.21	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic sulpho. PFDS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-EFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorocta.sulp.amid,PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Comment

All results for PFAS, except for PFOS and PFOA, refer to linear isomers.

This report replaces the previously posted with the same report no. Modification of results relating to PFAS.

Linköping 2019-11-07

The report has been reviewed and approved by

Responsible reviewer

Control numbers 0163 8307 5321 4989

Results refer only to the submitted sample. Unless the laboratory has written otherwise, the report may only be reproduced in its entirety.


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Box 1083, 581 10 Linköping, Sweden
Tel: + 46 13 254 900 - Fax: + 46 13 121 728
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REPORT

Page 1 (2)

issued by an Accredited Laboratory

Report No. 19475197
Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to
Soil
Level 1 : Rotterdam Nautilus Order
Information about sample and sampling

Date of Arrival : 2019-10-31
Time of Arrival : 1100
Temperature at arrival :

Sample name : (13132266-010) MM D10 5-3 (50-100)
Sampling date : 2019-10-23
Sampler : -
Depth of sampling : -
Invoice reference : P91492
Label-id @mis : 87772084

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
SS-ISO 11465	Dry substance	87.8	± 8.78	%
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	0.12	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluoropentanoic acid, PFPeA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, linear	0.44	± 0.13	ug/kg TS
DIN 38414-14 mod.	PFOA, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOA, total	0.44	± 0.13	ug/kg TS
DIN 38414-14 mod.	Perfluorononanoic acid, PFNA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic acid, PFDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorundec. acid, PFUnDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordodec. acid, PFDoDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluortridec. acid, PFTrDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluortetradec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorhexadec. acid, PFHxDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluoroctadec. acid, PFODA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, branched	< 0.1	± 0.10	ug/kg TS

(*) :Method not accredited by Swedac

PFOA = Perfluorooctanoic acid PFOS = Perfluorooctane sulfonate

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

(continued)

Results refer only to the submitted sample. Unless the laboratory has written otherwise, the report may only be reproduced in its entirety.



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Tel: + 46 13 254 900 - Fax: + 46 13 121 728
Registered 556152-0916 Registered office: Linköping, Sweden



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REPORT

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Page 2 (2)

Report No. 19475197

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Soil

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-10-31
Time of Arrival : 1100
Temperature at arrival :

Sample name : (13132266-010) MM D10 5-3 (50-100)
Sampling date : 2019-10-23
Sampler : -
Depth of sampling : -
Invoice reference : P91492
Label-id @mis : 87772084

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
Calculated	PFOS, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic sulpho. PFDS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-EFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorocta.sulp.amid,PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Comment

All results for PFAS, except for PFOS and PFOA, refer to linear isomers.

This report replaces the previously posted with the same report no. Modification of results relating to PFAS.

Linköping 2019-11-06

The report has been reviewed and approved by

Responsible reviewer

Control numbers 0162 8304 5325 4687

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SYNLAB Analytics & Services Sweden AB

Box 1083, 581 10 Linköping, Sweden
Tel: + 46 13 254 900 - Fax: + 46 13 121 728
Registered 556152-0916 Registered office: Linköping, Sweden



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Provvning
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REPORT

Page 1 (2)

issued by an Accredited Laboratory

Report No. 19475198
Assigner
**SYNLAB Analytics & Services BV
Rotterdam**
**Steenhouwerstraat 15
3194AG ROTTERDAM, NL**
Applies to
Soil
Level 1 : Rotterdam Nautilus Order
Information about sample and sampling

Date of Arrival : 2019-10-31
Time of Arrival : 1100
Temperature at arrival :

Sample name : (13132266-011) MM D11 6-1 (0-50) 6-2 (0-50) 6-3 (
Sampling date : 2019-10-23
Sampler : -
Depth of sampling : -
Invoice reference : P91492
Label-id @mis : 87738783

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
SS-ISO 11465	Dry substance	90.9	± 9.09	%
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluoropentanoic acid, PFPeA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, linear	0.44	± 0.13	ug/kg TS
DIN 38414-14 mod.	PFOA, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOA, total	0.44	± 0.13	ug/kg TS
DIN 38414-14 mod.	Perfluorononanoic acid, PFNA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic acid, PFDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorundec. acid, PFUnDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorododec. acid, PFDoDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluortridec. acid, PFTrDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluortetradec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorhexadec. acid, PFHxDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorheptadec. acid, PFHeDA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	1.3	± 0.39	ug/kg TS
DIN 38414-14 mod.	PFOS, branched	0.67	± 0.20	ug/kg TS

(*) :Method not accredited by Swedac

PFOA = Perfluorooctanoic acid PFOS = Perfluorooctane sulfonate

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

(continued)



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Box 1083, 581 10 Linköping, Sweden
Tel: + 46 13 254 900 - Fax: + 46 13 121 728
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REPORT

Page 2 (2)

issued by an Accredited Laboratory

Report No. 19475198

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Soil

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-10-31
Time of Arrival : 1100
Temperature at arrival :

Sample name : (13132266-011) MM D11 6-1 (0-50) 6-2 (0-50) 6-3 (
Sampling date : 2019-10-23
Sampler : -
Depth of sampling : -
Invoice reference : P91492
Label-id @mis : 87738783

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
Calculated	PFOS, total	2.0	± 0.60	ug/kg TS
DIN 38414-14 mod.	Perfluorodecanoic sulpho. PFDS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-EFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorocta.sulp.amid,PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Comment

All results for PFAS, except for PFOS and PFOA, refer to linear isomers.

This report replaces the previously posted with the same report no. Modification of results relating to PFAS.

Linköping 2019-11-07

The report has been reviewed and approved by

Responsible reviewer

Control numbers 0161 8307 5821 4483

Results refer only to the submitted sample. Unless the laboratory has written otherwise, the report may only be reproduced in its entirety.



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Box 1083, 581 10 Linköping, Sweden
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Registered 556152-0916 Registered office: Linköping, Sweden



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REPORT

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Page 1 (2)

Report No. 19475199

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Soil

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-10-31
Time of Arrival : 1100
Temperature at arrival :

Sample name : (13132266-012) MM D12 6-3 (50-100)
Sampling date : 2019-10-23
Sampler : -
Depth of sampling : -
Invoice reference : P91492
Label-id @mis : 87772299

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
SS-ISO 11465	Dry substance	91.7	± 9.17	%
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, linear	0.42	± 0.13	ug/kg TS
DIN 38414-14 mod.	PFOA, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOA, total	0.42	± 0.13	ug/kg TS
DIN 38414-14 mod.	Perfluorononanoic acid, PFNA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic acid, PFDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorundec. acid, PFUnDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordodec. acid, PFDoDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluortridec. acid, PFTrDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluortetradec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorhexadec. acid, PFHxDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluoroctadec. acid, PFODA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	0.85	± 0.26	ug/kg TS
DIN 38414-14 mod.	PFOS, branched	0.52	± 0.16	ug/kg TS

(*) :Method not accredited by Swedac

PFOA = Perfluorooctanoic acid PFOS = Perfluorooctane sulfonate

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

(continued)

Results refer only to the submitted sample. Unless the laboratory has written otherwise, the report may only be reproduced in its entirety.



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Tel: + 46 13 254 900 - Fax: + 46 13 121 728
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REPORT

Page 2 (2)

issued by an Accredited Laboratory

Report No. 19475199

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Soil

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-10-31
Time of Arrival : 1100
Temperature at arrival :

Sample name : (13132266-012) MM D12 6-3 (50-100)
Sampling date : 2019-10-23
Sampler : -
Depth of sampling : -
Invoice reference : P91492
Label-id @mis : 87772299

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
Calculated	PFOS, total	1.4	± 0.42	ug/kg TS
DIN 38414-14 mod.	Perfluorodecanoic sulpho. PFDS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-EFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorocta.sulp.amid,PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Comment

All results for PFAS, except for PFOS and PFOA, refer to linear isomers.

This report replaces the previously posted with the same report no. Modification of results relating to PFAS.

Linköping 2019-11-07

The report has been reviewed and approved by

Responsible reviewer

Control numbers 0160 8606 5723 4588

Results refer only to the submitted sample. Unless the laboratory has written otherwise, the report may only be reproduced in its entirety.



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Box 1083, 581 10 Linköping, Sweden
Tel: + 46 13 254 900 - Fax: + 46 13 121 728
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REPORT

Page 2 (2)

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Report No. 19475200

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Soil

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-10-31
Time of Arrival : 1100
Temperature at arrival :

Sample name : (13132266-013) MM D13 7-1 (0-50) 7-2 (0-50) 7-3 (
Sampling date : 2019-10-23
Sampler : -
Depth of sampling : -
Invoice reference : P91492
Label-id @mis : 87801585

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
Calculated	PFOS, total	0.36	± 0.11	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic sulpho. PFDS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-EFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorocta.sulp.amid,PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Comment

All results for PFAS, except for PFOS and PFOA, refer to linear isomers.

This report replaces the previously posted with the same report no. Modification of results relating to PFAS.

Linköping 2019-11-06

The report has been reviewed and approved by

Responsible reviewer

Control numbers 9985 0454 2416 4073

Results refer only to the submitted sample. Unless the laboratory has written otherwise, the report may only be reproduced in its entirety.



SYNLAB Analytics & Services Sweden AB

Box 1083, 581 10 Linköping, Sweden
Tel: + 46 13 254 900 - Fax: + 46 13 121 728
Registered 556152-0916 Registered office: Linköping, Sweden



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REPORT

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issued by an Accredited Laboratory

Report No. 19475201

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Soil

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-10-31
Time of Arrival : 1100
Temperature at arrival :

Sample name : (13132266-014) MM D14 7-3 (50-100)
Sampling date : 2019-10-23
Sampler : -
Depth of sampling : -
Invoice reference : P91492
Label-id @mis : 87772360

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
SS-ISO 11465	Dry substance	87.7	± 8.77	%
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluoropentanoic acid, PFPeA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, linear	0.10	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOA, total	0.10	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorononanoic acid, PFNA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic acid, PFDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorundec. acid, PFUnDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorododec. acid, PFDoDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluortridec. acid, PFTrDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluortetradec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorhexadec. acid, PFHxDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluoroctadec. acid, PFODA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, branched	< 0.1	± 0.10	ug/kg TS

(*) :Method not accredited by Swedac

PFOA = Perfluorooctanoic acid PFOS = Perfluorooctane sulfonate

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

(continued)

Results refer only to the submitted sample. Unless the laboratory has written otherwise, the report may only be reproduced in its entirety.



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Tel: + 46 13 254 900 - Fax: + 46 13 121 728
Registered 556152-0916 Registered office: Linköping, Sweden



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REPORT

issued by an Accredited Laboratory

Page 2 (2)

Report No. 19475201

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Soil

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-10-31
Time of Arrival : 1100
Temperature at arrival :

Sample name : (13132266-014) MM D14 7-3 (50-100)
Sampling date : 2019-10-23
Sampler : -
Depth of sampling : -
Invoice reference : P91492
Label-id @mis : 87772360

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
Calculated	PFOS, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic sulpho. PFDS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-EFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorocta.sulp.amid,PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Comment

All results for PFAS, except for PFOS and PFOA, refer to linear isomers.

This report replaces the previously posted with the same report no. Modification of results relating to PFAS.

Linköping 2019-11-06

The report has been reviewed and approved by

Responsible reviewer

Control numbers 9881 0956 2416 4772

Results refer only to the submitted sample. Unless the laboratory has written otherwise, the report may only be reproduced in its entirety.



SYNLAB Analytics & Services Sweden AB

Box 1083, 581 10 Linköping, Sweden
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REPORT

Page 1 (2)

issued by an Accredited Laboratory

Report No. 19475202

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Soil

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-10-31
Time of Arrival : 1100
Temperature at arrival :

Sample name : (13132266-015) MM D15 8-1 (0-50) 8-2 (0-50)
Sampling date : 2019-10-23
Sampler : -
Depth of sampling : -
Invoice reference : P91492
Label-id @mis : 87772848

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
SS-ISO 11465	Dry substance	86.6	± 8.66	%
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluoropentanoic acid, PFPeA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, linear	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOA, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorononanoic acid, PFNA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic acid, PFDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorundec. acid, PFUnDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordodec. acid, PFDoDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluortridec. acid, PFTrDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluortetradec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorhexadec. acid, PFHxDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluoroctadec. acid, PFODA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	0.33	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, branched	< 0.1	± 0.10	ug/kg TS

(*) :Method not accredited by Swedac

PFOA = Perfluorooctanoic acid PFOS = Perfluorooctane sulfonate

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

(continued)

Results refer only to the submitted sample. Unless the laboratory has written otherwise, the report may only be reproduced in its entirety.



SYNLAB Analytics & Services Sweden AB
Box 1083, 581 10 Linköping, Sweden
Tel: + 46 13 254 900 - Fax: + 46 13 121 728
Registered 556152-0916 Registered office: Linköping, Sweden



Akred. nr 1006
Provning
ISO/IEC 17025



REPORT

Page 2 (2)

issued by an Accredited Laboratory

Report No. 19475202

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Soil

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-10-31
Time of Arrival : 1100
Temperature at arrival :

Sample name : (13132266-015) MM D15 8-1 (0-50) 8-2 (0-50)
Sampling date : 2019-10-23
Sampler : -
Depth of sampling : -
Invoice reference : P91492
Label-id @mis : 87772848

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
Calculated	PFOS, total	0.33	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic sulpho. PFDS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-EFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorocta.sulp.amid,PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Comment

All results for PFAS, except for PFOS and PFOA, refer to linear isomers.

This report replaces the previously posted with the same report no. Modification of results relating to PFAS.

Linköping 2019-11-07

The report has been reviewed and approved by

Responsible reviewer

Control numbers 9785 0056 2316 4177

Results refer only to the submitted sample. Unless the laboratory has written otherwise, the report may only be reproduced in its entirety.


SYNLAB Analytics & Services Sweden AB

Box 1083, 581 10 Linköping, Sweden
Tel: + 46 13 254 900 - Fax: + 46 13 121 728
Registered 556152-0916 Registered office: Linköping, Sweden



Akred. nr 1006
Provvning
ISO/IEC 17025


REPORT

Page 1 (2)

issued by an Accredited Laboratory

Report No. 19475203
Assigner
**SYNLAB Analytics & Services BV
Rotterdam**
**Steenhouwerstraat 15
3194AG ROTTERDAM, NL**
Applies to
Soil
Level 1 : Rotterdam Nautilus Order
Information about sample and sampling

Date of Arrival : 2019-10-31
Time of Arrival : 1100
Temperature at arrival :

Sample name : (13132266-016) MM D16 8-3 (50-100)
Sampling date : 2019-10-23
Sampler : -
Depth of sampling : -
Invoice reference : P91492
Label-id @mis : 87772313

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
SS-ISO 11465	Dry substance	84.9	± 8.49	%
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluoropentanoic acid, PFPeA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, linear	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOA, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorononanoic acid, PFNA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic acid, PFDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorundec. acid, PFUnDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordodec. acid, PFDoDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluortridec. acid, PFTrDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluortetradec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorhexadec. acid, PFHxDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluoroctadec. acid, PFODA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, branched	< 0.1	± 0.10	ug/kg TS

(*) : Method not accredited by Swedac

PFOA = Perfluorooctanoic acid PFOS = Perfluorooctane sulfonate

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

(continued)



SYNLAB Analytics & Services Sweden AB
Box 1083, 581 10 Linköping, Sweden
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REPORT

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Page 2 (2)

Report No. 19475203

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Soil

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-10-31
Time of Arrival : 1100
Temperature at arrival :

Sample name : (13132266-016) MM D16 8-3 (50-100)
Sampling date : 2019-10-23
Sampler : -
Depth of sampling : -
Invoice reference : P91492
Label-id @mis : 87772313

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
Calculated	PFOS, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorodecanoic sulpho. PFDS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-EFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorocta.sulp.amid,PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Comment

All results for PFAS, except for PFOS and PFOA, refer to linear isomers.

This report replaces the previously posted with the same report no. Modification of results relating to PFAS.

Linköping 2019-11-07

The report has been reviewed and approved by

Responsible reviewer

Control numbers 9685 0153 2616 4772

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MIL.TECH.ADV.BUREAU HEEL

Postbus 5049
6097 ZG HEEL

Blad 1 van 22

Uw projectnaam : Eckeltsebeek te Bergen
Uw projectnummer : 0302WAL/19
SYNLAB rapportnummer : 13138111, versienummer: 1
Rapport-verificatienummer : 6X717HVJ

Rotterdam, 12-11-2019

Geachte heer/mevrouw,

Hierbij ontvangt u de analyse resultaten van het laboratoriumonderzoek ten behoeve van uw project 0302WAL/19. Het onderzoek werd uitgevoerd conform uw opdracht. De gerapporteerde resultaten hebben uitsluitend betrekking op de geteste monsters. De door u aangegeven omschrijvingen voor de monsters, het project en de monsternamedatum (indien aangeleverd) zijn overgenomen in dit analyserapport.

Het onderzoek is uitgevoerd door SYNLAB Analytics & Services B.V., gevestigd aan de Steenhouwerstraat 15 in Rotterdam (NL). Indien het onderzoek is uitgevoerd door derden of het SYNLAB laboratorium in Frankrijk (99-101 Avenue Louis Roche, Gennevilliers) is dit in het rapport aangegeven.

Dit analyserapport bestaat inclusief bijlagen uit 22 pagina's. In geval van een versienummer van '2' of hoger vervallen de voorgaande versies. Alle bijlagen maken onlosmakelijk onderdeel uit van het rapport. Alleen vermenigvuldiging van het hele rapport is toegestaan.

Mocht u vragen en/of opmerkingen hebben naar aanleiding van dit rapport, bijvoorbeeld als u nadere informatie nodig heeft over de meetonzekerheid van de analyseresultaten in dit rapport, dan verzoeken wij u vriendelijk contact op te nemen met de afdeling Customer Support.

Wij vertrouwen er op u met deze informatie van dienst te zijn.

Hoogachtend,

Technical Director

Analysrapport

Projectnaam Eckeltsebeek te Bergen
 Projectnummer 0302WAL/19
 Rapportnummer 13138111 - 1

Orderdatum 01-11-2019
 Startdatum 01-11-2019
 Rapportagedatum 12-11-2019

Nummer	Monstersoort	Monsterspecificatie
001	Waterbodem (AS3000)	MM O1 O01 (0-50) O05 (0-50) O06 (0-50)
002	Waterbodem (AS3000)	MM O2 O02 (0-50) O03 (0-50) O04 (0-50)
003	Waterbodem (AS3000)	MM O3 O07 (0-50) O08 (0-50) O09 (0-50)
004	Waterbodem (AS3000)	MM O4 O10 (0-50) O11 (0-50) O16 (0-50)
005	Waterbodem (AS3000)	MM O5 O12 (0-50) O13 (0-50) O14 (0-50)

Analyse	Eenheid	Q	001	002	003	004	005
<i>ANALYSES UITGEVOERD DOOR DERDEN</i>							
PFAS (30) en GENX			zie bijlage	zie bijlage	zie bijlage	zie bijlage	zie bijlage

Paraaf

Analysrapport

Projectnaam Eckeltsebeek te Bergen
 Projectnummer 0302WAL/19
 Rapportnummer 13138111 - 1

Orderdatum 01-11-2019
 Startdatum 01-11-2019
 Rapportagedatum 12-11-2019

Monster beschrijvingen

- | | | |
|-----|---|--|
| 001 | * | De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk. |
| 002 | * | De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk. |
| 003 | * | De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk. |
| 004 | * | De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk. |
| 005 | * | De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk. |

Paraaf :

Analyserapport

Projectnaam Eckeltsebeek te Bergen
Projectnummer 0302WAL/19
Rapportnummer 13138111 - 1

Orderdatum 01-11-2019
Startdatum 01-11-2019
Rapportagedatum 12-11-2019

Nummer	Monstersoort	Monsterspecificatie			
006	Waterbodem (AS3000)	MM O6 O15 (0-50) O17 (0-50) O23 (0-50)			
007	Waterbodem (AS3000)	MM O7 O18 (0-50) O19 (0-50) O20 (0-50)			
008	Waterbodem (AS3000)	MM O8 O21 (0-50) O22 (0-50) O25 (0-50)			
Analyse	Eenheid	Q	006	007	008
<i>ANALYSES UITGEVOERD DOOR DERDEN</i>					
PFAS (30) en GENX			zie bijlage	zie bijlage	zie bijlage

Paraaf :

Analyserapport

Projectnaam Eckeltsebeek te Bergen
Projectnummer 0302WAL/19
Rapportnummer 13138111 - 1

Orderdatum 01-11-2019
Startdatum 01-11-2019
Rapportagedatum 12-11-2019

Monster beschrijvingen

- | | | |
|-----|---|--|
| 006 | * | De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk. |
| 007 | * | De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk. |
| 008 | * | De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk. |

Paraaf :

Analyserapport

Projectnaam Eckeltsebeek te Bergen
Projectnummer 0302WAL/19
Rapportnummer 13138111 - 1

Orderdatum 01-11-2019
Startdatum 01-11-2019
Rapportagedatum 12-11-2019

Analyse		Monstersoort	Relatie tot norm	
PFAS (30) en GENX		Waterbodem (AS3000)	Analyse uitbesteed	
Monster	Barcode	Aanlevering	Monstername	Verpakking
001	Y9901319	30-10-2019	29-10-2019	ALC201
001	Y9901220	30-10-2019	29-10-2019	ALC201
001	Y9901320	30-10-2019	29-10-2019	ALC201
002	Y9901322	30-10-2019	29-10-2019	ALC201
002	Y9901397	30-10-2019	29-10-2019	ALC201
002	Y9901341	30-10-2019	29-10-2019	ALC201
003	Y9901224	30-10-2019	29-10-2019	ALC201
003	Y9901229	30-10-2019	29-10-2019	ALC201
003	Y9901339	30-10-2019	29-10-2019	ALC201
004	Y9901440	30-10-2019	29-10-2019	ALC201
004	Y9901219	30-10-2019	29-10-2019	ALC201
004	Y9901228	30-10-2019	29-10-2019	ALC201
005	Y9901315	30-10-2019	29-10-2019	ALC201
005	Y9901316	30-10-2019	29-10-2019	ALC201
005	Y9901227	30-10-2019	29-10-2019	ALC201
006	Y9901321	30-10-2019	29-10-2019	ALC201
006	Y9901225	30-10-2019	29-10-2019	ALC201
006	Y9901232	30-10-2019	29-10-2019	ALC201
007	Y9901318	30-10-2019	29-10-2019	ALC201
007	Y9901337	30-10-2019	29-10-2019	ALC201
007	Y9901230	30-10-2019	29-10-2019	ALC201
008	Y9901317	30-10-2019	29-10-2019	ALC201
008	Y9901218	30-10-2019	29-10-2019	ALC201
008	Y9901340	30-10-2019	29-10-2019	ALC201

Paraaf :



SYNLAB Analytics & Services Sweden AB

Box 1083, 581 10 Linköping, Sweden

Tel: + 46 13 254 900 - Fax: + 46 13 121 728

Registered 556152-0916 Registered office: Linköping, Sweden


Ackred. nr 1006
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REPORT

issued by an Accredited Laboratory

Page 1 (2)

Report No. 19484695

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-06
Time of Arrival : 1110
Temperature at arrival :

Sample name : (13138111-001) MM O1 O01 (0-50) O05 (0-50) O06 (0
Sampling date : 2019-10-29
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P91860
Label-id @mis : 87907407

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
SS-EN 12880	Dry substance	74.8	± 7.48	%
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	0.17	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeA	0.20	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	0.23	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	0.24	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, linear	0.49	± 0.15	ug/kg TS
DIN 38414-14 mod.	PFOA, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOA, total	0.49	± 0.15	ug/kg TS
DIN 38414-14 mod.	Perfluorononanoic acid, PFNA	0.23	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic acid, PFDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorundec. acid, PFUnDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordodec. acid, PFDoDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluortridec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluortetradec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorhexadec. acid, PFHxDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluoroctadec. acid, PFODA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	0.11	± 0.10	ug/kg TS

(*) : Method not accredited by Swedac

PFOA = Perfluorooctane acid PFOS = Perfluorooctane sulfonate

The stated uncertainty of measurement is calculated using a coverage k = 2. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

(continued)

Results refer only to the submitted sample. Unless the laboratory has written otherwise, the report may only be reproduced in its entirety.


SYNLAB Analytics & Services Sweden AB

Box 1083, 581 10 Linköping, Sweden
Tel: + 46 13 254 900 - Fax: + 46 13 121 728
Registered 556152-0916 Registered office: Linköping, Sweden



Akred. nr 1006
Provning
ISO/IEC 17025



REPORT

issued by an Accredited Laboratory

Page 2 (2)

Report No. 19484695
Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to
Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-06
Time of Arrival : 1110
Temperature at arrival :

Sample name : (13138111-001) MM O1 O01 (0-50) O05 (0-50) O06 (0
Sampling date : 2019-10-29
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P91860
Label-id @mis : 87907407

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
DIN 38414-14 mod.	PFOS, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOS, total	0.11	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluorodecanoic sulpho. PFDS	< 0.1		ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-EtFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorocta.sulp.amid,PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Linköping 2019-11-12

The report has been reviewed and approved by

Responsible reviewer

Control numbers 0164 8503 5514 5932

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SYNLAB Analytics & Services Sweden AB

Box 1083, 581 10 Linköping, Sweden

Tel: + 46 13 254 900 - Fax: + 46 13 121 728

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REPORT

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Page 1 (2)

Report No. 19484696

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-06
Time of Arrival : 1110
Temperature at arrival :

Sample name : (13138111-002) MM O2 O02 (0-50) O03 (0-50) O04 (0
Sampling date : 2019-10-29
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P91860
Label-id @mis : 87907377

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
SS-EN 12880	Dry substance	59.6	± 5.96	%
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	1.6	± 0.48	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeA	3.2	± 0.96	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	2.6	± 0.78	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	3.1	± 0.93	ug/kg TS
DIN 38414-14 mod.	PFOA, linear	7.2	± 2.2	ug/kg TS
DIN 38414-14 mod.	PFOA, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOA, total	7.2	± 2.2	ug/kg TS
DIN 38414-14 mod.	Perfluorononanoic acid, PFNA	3.2	± 0.96	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic acid, PFDA	1.8	± 0.54	ug/kg TS
DIN 38414-14 mod.	Perfluorundec. acid, PFUnDA	0.74	± 0.22	ug/kg TS
DIN 38414-14 mod.	Perfluordodec. acid, PFDoDA	0.86	± 0.26	ug/kg TS
DIN 38414-14 mod. (*)	Perfluortridec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluortetradecacid, PFTeDA	0.12		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorhexadec. acid, PFHxDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluoroctadec. acid, PFODA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	1.8	± 0.54	ug/kg TS

(*) : Method not accredited by Swedac

PFOA = Perfluorooctane acid PFOS = Perfluorooctane sulfonate

The stated uncertainty of measurement is calculated using a coverage k = 2. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

(continued)

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SYNLAB Analytics & Services Sweden AB

Box 1083, 581 10 Linköping, Sweden
Tel: + 46 13 254 900 - Fax: + 46 13 121 728
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Page 2 (2)

Report No. 19484696
Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to
Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-06
Time of Arrival : 1110
Temperature at arrival :

Sample name : (13138111-002) MM O2 O02 (0-50) O03 (0-50) O04 (0
Sampling date : 2019-10-29
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P91860
Label-id @mis : 87907377

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
DIN 38414-14 mod.	PFOS, branched	0.24	± 0.10	ug/kg TS
Calculated	PFOS, total	2.0	± 0.60	ug/kg TS
DIN 38414-14 mod. (*)	Perfluorodecanoic sulpho. PFDS	< 0.1		ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	0.26	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	1.2		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-EtFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorocta.sulp.amid,PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Linköping 2019-11-12

The report has been reviewed and approved by

Responsible reviewer

Control numbers 0163 8107 5916 5838

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Page 1 (2)

Report No. 19484697

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-06
Time of Arrival : 1110
Temperature at arrival :

Sample name : (13138111-003) MM O3 O07 (0-50) O08 (0-50) O09 (0
Sampling date : 2019-10-29
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P91860
Label-id @mis : 87907500

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
SS-EN 12880	Dry substance	54.9	± 5.49	%
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	0.58	± 0.17	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeA	1.6	± 0.48	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	1.1	± 0.33	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	1.2	± 0.36	ug/kg TS
DIN 38414-14 mod.	PFOA, linear	3.1	± 0.93	ug/kg TS
DIN 38414-14 mod.	PFOA, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOA, total	3.1	± 0.93	ug/kg TS
DIN 38414-14 mod.	Perfluorononanoic acid, PFNA	1.9	± 0.57	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic acid, PFDA	0.73	± 0.22	ug/kg TS
DIN 38414-14 mod.	Perfluorundec. acid, PFUnDA	0.23	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordodec. acid, PFDoDA	0.18	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluortridec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluortetradec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorhexadec. acid, PFHxDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluoroctadec. acid, PFODA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	0.89	± 0.27	ug/kg TS

(*) : Method not accredited by Swedac

PFOA = Perfluorooctane acid PFOS = Perfluorooctane sulfonate

The stated uncertainty of measurement is calculated using a coverage k = 2. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

(continued)

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Report No. 19484697
Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to
Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-06
Time of Arrival : 1110
Temperature at arrival :

Sample name : (13138111-003) MM O3 O07 (0-50) O08 (0-50) O09 (0
Sampling date : 2019-10-29
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P91860
Label-id @mis : 87907500

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
DIN 38414-14 mod.	PFOS, branched	0.16	± 0.10	ug/kg TS
Calculated	PFOS, total	1.1	± 0.33	ug/kg TS
DIN 38414-14 mod. (*)	Perfluorodecanoic sulpho. PFDS	< 0.1		ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	0.14		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-EtFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorocta.sulp.amid,PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Linköping 2019-11-12

The report has been reviewed and approved by

Responsible reviewer

Control numbers 0162 8304 5218 5334

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Box 1083, 581 10 Linköping, Sweden

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Page 1 (2)

Report No. 19484698

Assigner

SYNLAB Analytics & Services BV
Rotterdam

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3194AG ROTTERDAM, NL

Applies to

Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-06
Time of Arrival : 1110
Temperature at arrival :

Sample name : (13138111-004) MM O4 O10 (0-50) O11 (0-50) O16 (0
Sampling date : 2019-10-29
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P91860
Label-id @mis : 87907620

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
SS-EN 12880	Dry substance	62.6	± 6.26	%
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	0.70	± 0.21	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeA	1.5	± 0.45	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	1.2	± 0.36	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	1.4	± 0.42	ug/kg TS
DIN 38414-14 mod.	PFOA, linear	3.1	± 0.93	ug/kg TS
DIN 38414-14 mod.	PFOA, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOA, total	3.1	± 0.93	ug/kg TS
DIN 38414-14 mod.	Perfluorononanoic acid, PFNA	1.4	± 0.42	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic acid, PFDA	1.1	± 0.33	ug/kg TS
DIN 38414-14 mod.	Perfluorundec. acid, PFUnDA	0.31	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordodec. acid, PFDoDA	0.30	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluortridec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluortetradec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorhexadec. acid, PFHxDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluoroctadec. acid, PFODA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	0.83	± 0.25	ug/kg TS

(*) : Method not accredited by Swedac

PFOA = Perfluorooctane acid PFOS = Perfluorooctane sulfonate

The stated uncertainty of measurement is calculated using a coverage k = 2. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

(continued)

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Report No. 19484698
Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to
Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-06
Time of Arrival : 1110
Temperature at arrival :

Sample name : (13138111-004) MM O4 O10 (0-50) O11 (0-50) O16 (0
Sampling date : 2019-10-29
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P91860
Label-id @mis : 87907620

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
DIN 38414-14 mod.	PFOS, branched	0.13	± 0.10	ug/kg TS
Calculated	PFOS, total	0.96	± 0.29	ug/kg TS
DIN 38414-14 mod. (*)	Perfluorodecanoic sulpho. PFDS	< 0.1		ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	0.26	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	0.60		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-EtFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorocta.sulp.amid,PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Linköping 2019-11-12

The report has been reviewed and approved by

Responsible reviewer

Control numbers 0161 8400 5316 5235

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Box 1083, 581 10 Linköping, Sweden

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Page 1 (2)

Report No. 19484699

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-06
Time of Arrival : 1110
Temperature at arrival :

Sample name : (13138111-005) MM O5 O12 (0-50) O13 (0-50) O14 (0
Sampling date : 2019-10-29
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P91860
Label-id @mis : 87906085

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
SS-EN 12880	Dry substance	84.5	± 8.45	%
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, linear	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOA, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorononanoic acid, PFNA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic acid, PFDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorundec. acid, PFUnDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordodec. acid, PFDoDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluortridec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluortetradec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorhexadec. acid, PFHxDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluoroctadec. acid, PFODA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	< 0.1	± 0.10	ug/kg TS

(*) : Method not accredited by Swedac

PFOA = Perfluorooctane acid PFOS = Perfluorooctane sulfonate

The stated uncertainty of measurement is calculated using a coverage k = 2. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

(continued)

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Report No. 19484699
Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to
Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-06
Time of Arrival : 1110
Temperature at arrival :

Sample name : (13138111-005) MM O5 O12 (0-50) O13 (0-50) O14 (0
Sampling date : 2019-10-29
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P91860
Label-id @mis : 87906085

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
DIN 38414-14 mod.	PFOS, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOS, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluorodecanoic sulpho. PFDS	< 0.1		ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-EtFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorocta.sulp.amid,PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Linköping 2019-11-12

The report has been reviewed and approved by

Responsible reviewer

Control numbers 0160 8909 5510 5837

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Box 1083, 581 10 Linköping, Sweden

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Report No. 19484700

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-06
Time of Arrival : 1110
Temperature at arrival :

Sample name : (13138111-006) MM O6 O15 (0-50) O17 (0-50) O23 (0
Sampling date : 2019-10-29
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P91860
Label-id @mis : 87905999

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
SS-EN 12880	Dry substance	87.1	± 8.71	%
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	0.18	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeA	0.26	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	0.24	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	0.28	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, linear	0.59	± 0.18	ug/kg TS
DIN 38414-14 mod.	PFOA, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOA, total	0.59	± 0.18	ug/kg TS
DIN 38414-14 mod.	Perfluorononanoic acid, PFNA	0.32	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic acid, PFDA	0.11	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorundec. acid, PFUnDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordodec. acid, PFDoDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluortridec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluortetradec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorhexadec. acid, PFHxDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluoroctadec. acid, PFODA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	0.16	± 0.10	ug/kg TS

(*) : Method not accredited by Swedac

PFOA = Perfluorooctane acid PFOS = Perfluorooctane sulfonate

The stated uncertainty of measurement is calculated using a coverage k = 2. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

(continued)

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SYNLAB Analytics & Services Sweden AB

Box 1083, 581 10 Linköping, Sweden
Tel: + 46 13 254 900 - Fax: + 46 13 121 728
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REPORT

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Page 2 (2)

Report No. 19484700
Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to
Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-06
Time of Arrival : 1110
Temperature at arrival :

Sample name : (13138111-006) MM O6 O15 (0-50) O17 (0-50) O23 (0
Sampling date : 2019-10-29
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P91860
Label-id @mis : 87905999

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
DIN 38414-14 mod.	PFOS, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOS, total	0.16	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluorodecanoic sulpho. PFDS	< 0.1		ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-EtFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluoroocta.sulp.amid,PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Linköping 2019-11-12

The report has been reviewed and approved by

Responsible reviewer

Control numbers 9985 0558 1416 5421

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Page 1 (2)

Report No. 19484701

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-06
Time of Arrival : 1110
Temperature at arrival :

Sample name : (13138111-007) MM O7 O18 (0-50) O19 (0-50) O20 (0
Sampling date : 2019-10-29
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P91860
Label-id @mis : 87905671

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
SS-EN 12880	Dry substance	57.4	± 5.74	%
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	0.12	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeA	0.18	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	0.18	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	0.23	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, linear	0.41	± 0.12	ug/kg TS
DIN 38414-14 mod.	PFOA, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOA, total	0.41	± 0.12	ug/kg TS
DIN 38414-14 mod.	Perfluorononanoic acid, PFNA	0.25	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic acid, PFDA	0.23	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorundec. acid, PFUnDA	0.20	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordodec. acid, PFDoDA	0.17	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluortridec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluortetradec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorhexadec. acid, PFHxDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluoroctadec. acid, PFODA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	0.30	± 0.10	ug/kg TS

(*) : Method not accredited by Swedac

PFOA = Perfluorooctane acid PFOS = Perfluorooctane sulfonate

The stated uncertainty of measurement is calculated using a coverage k = 2. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

(continued)

Results refer only to the submitted sample. Unless the laboratory has written otherwise, the report may only be reproduced in its entirety.


SYNLAB Analytics & Services Sweden AB

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REPORT

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Page 2 (2)

Report No. 19484701
Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to
Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-06
Time of Arrival : 1110
Temperature at arrival :

Sample name : (13138111-007) MM O7 O18 (0-50) O19 (0-50) O20 (0
Sampling date : 2019-10-29
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P91860
Label-id @mis : 87905671

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
DIN 38414-14 mod.	PFOS, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOS, total	0.30	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluorodecanoic sulpho. PFDS	< 0.1		ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	0.19		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-EtFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluoroocta.sulp.amid,PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Linköping 2019-11-12

The report has been reviewed and approved by

Responsible reviewer

Control numbers 9886 0158 1916 5828

Results refer only to the submitted sample. Unless the laboratory has written otherwise, the report may only be reproduced in its entirety.



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Page 1 (2)

Report No. 19484702

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-06
Time of Arrival : 1110
Temperature at arrival :

Sample name : (13138111-008) MM O8 O21 (0-50) O22 (0-50) O25 (0
Sampling date : 2019-10-29
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P91860
Label-id @mis : 87905350

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
SS-EN 12880	Dry substance	75.1	± 7.51	%
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	0.33	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeA	0.45	± 0.14	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	0.40	± 0.12	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	0.46	± 0.14	ug/kg TS
DIN 38414-14 mod.	PFOA, linear	1.4	± 0.42	ug/kg TS
DIN 38414-14 mod.	PFOA, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOA, total	1.4	± 0.42	ug/kg TS
DIN 38414-14 mod.	Perfluorononanoic acid, PFNA	0.87	± 0.26	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic acid, PFDA	0.52	± 0.16	ug/kg TS
DIN 38414-14 mod.	Perfluorundec. acid, PFUnDA	0.38	± 0.11	ug/kg TS
DIN 38414-14 mod.	Perfluordodec. acid, PFDoDA	0.48	± 0.14	ug/kg TS
DIN 38414-14 mod. (*)	Perfluortridec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluortetradec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorhexadec. acid, PFHxDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluoroctadec. acid, PFODA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	0.63	± 0.19	ug/kg TS

(*) : Method not accredited by Swedac

PFOA = Perfluorooctane acid PFOS = Perfluorooctane sulfonate

The stated uncertainty of measurement is calculated using a coverage k = 2. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

(continued)

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REPORT

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Page 2 (2)

Report No. 19484702
Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to
Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-06
Time of Arrival : 1110
Temperature at arrival :

Sample name : (13138111-008) MM O8 O21 (0-50) O22 (0-50) O25 (0
Sampling date : 2019-10-29
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P91860
Label-id @mis : 87905350

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
DIN 38414-14 mod.	PFOS, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOS, total	0.63	± 0.19	ug/kg TS
DIN 38414-14 mod. (*)	Perfluorodecanoic sulpho. PFDS	< 0.1		ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	0.12	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	0.53		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-EtFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorocta.sulp.amid,PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Linköping 2019-11-12

The report has been reviewed and approved by

Responsible reviewer

Control numbers 9787 0552 1416 5722

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MIL.TECH.ADV.BUREAU HEEL

Postbus 5049
6097 ZG HEEL

Blad 1 van 45

Uw projectnaam : Eckeltsebeek te Bergen
Uw projectnummer : 0302WAL/19
SYNLAB rapportnummer : 13138114, versienummer: 1
Rapport-verificatienummer : I584KTIY

Rotterdam, 13-11-2019

Geachte heer/mevrouw,

Hierbij ontvangt u de analyse resultaten van het laboratoriumonderzoek ten behoeve van uw project 0302WAL/19. Het onderzoek werd uitgevoerd conform uw opdracht. De gerapporteerde resultaten hebben uitsluitend betrekking op de geteste monsters. De door u aangegeven omschrijvingen voor de monsters, het project en de monsternamedatum (indien aangeleverd) zijn overgenomen in dit analyserapport.

Het onderzoek is uitgevoerd door SYNLAB Analytics & Services B.V., gevestigd aan de Steenhouwerstraat 15 in Rotterdam (NL). Indien het onderzoek is uitgevoerd door derden of het SYNLAB laboratorium in Frankrijk (99-101 Avenue Louis Roche, Gennevilliers) is dit in het rapport aangegeven.

Dit analyserapport bestaat inclusief bijlagen uit 45 pagina's. In geval van een versienummer van '2' of hoger vervallen de voorgaande versies. Alle bijlagen maken onlosmakelijk onderdeel uit van het rapport. Alleen vermenigvuldiging van het hele rapport is toegestaan.

Mocht u vragen en/of opmerkingen hebben naar aanleiding van dit rapport, bijvoorbeeld als u nadere informatie nodig heeft over de meetonzekerheid van de analyseresultaten in dit rapport, dan verzoeken wij u vriendelijk contact op te nemen met de afdeling Customer Support.

Wij vertrouwen er op u met deze informatie van dienst te zijn.

Hoogachtend,

Technical Director

Analysrapport

Projectnaam Eckeltsebeek te Bergen
Projectnummer 0302WAL/19
Rapportnummer 13138114 - 1

Orderdatum 01-11-2019
Startdatum 01-11-2019
Rapportagedatum 13-11-2019

Nummer	Monstersoort	Monsterspecificatie
001	Waterbodem (AS3000)	MM 1 W001 (60-110) W002 (50-100) W003 (70-120) W004 (60-110) W005 (50-100) W006 (60-110) W007 (70-120) W008 (100-150) W009 (100-150) W010 (80-130)
002	Waterbodem (AS3000)	MM 2 W011 (100-150) W012 (80-130) W013 (80-130) W014 (100-150) W015 (90-140) W016 (100-150) W017 (100-150) W018 (70-120) W019 (100-150) W020 (90-140)
003	Waterbodem (AS3000)	MM 3 W021 (80-130) W022 (70-120) W023 (80-130) W024 (100-150) W025 (100-150) W026 (100-150) W027 (100-150) W028 (80-130) W029 (100-150) W030 (100-150)
004	Waterbodem (AS3000)	MM 4 W031 (100-150) W032 (90-140) W033 (80-130) W034 (100-150) W035 (80-130) W036 (100-150) W037 (80-130) W038 (90-140) W039 (80-130) W040 (100-150)
005	Waterbodem (AS3000)	MM 5 W041 (100-150) W042 (100-150) W043 (100-150) W044 (100-150) W045 (80-130) W046 (100-150) W047 (80-130) W048 (90-140) W049 (80-130) W050 (100-150)

Analyse	Eenheid	Q	001	002	003	004	005
<i>ANALYSES UITGEVOERD DOOR DERDEN</i>							
PFAS (30) en GENX			zie bijlage	zie bijlage	zie bijlage	zie bijlage	zie bijlage

Paraaf :

Analyserapport

Projectnaam Eckeltsebeek te Bergen
Projectnummer 0302WAL/19
Rapportnummer 13138114 - 1

Orderdatum 01-11-2019
Startdatum 01-11-2019
Rapportagedatum 13-11-2019

Monster beschrijvingen

- | | | |
|-----|---|--|
| 001 | * | De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk. |
| 002 | * | De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk. |
| 003 | * | De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk. |
| 004 | * | De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk. |
| 005 | * | De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk. |

Paraaf :

Analysrapport

Projectnaam Eckeltsebeek te Bergen
Projectnummer 0302WAL/19
Rapportnummer 13138114 - 1

Orderdatum 01-11-2019
Startdatum 01-11-2019
Rapportagedatum 13-11-2019

Nummer	Monstersoort	Monsterspecificatie
006	Waterbodem (AS3000)	MM 6 W051 (70-120) W052 (80-130) W053 (80-130) W054 (100-150) W055 (80-130) W056 (70-120) W057 (80-130) W058 (90-140) W059 (80-130) W060 (80-130)
007	Waterbodem (AS3000)	MM 7 W061 (50-100) W062 (50-100) W063 (50-100) W064 (50-100) W065 (50-100) W066 (50-100) W067 (70-120) W068 (50-100) W069 (60-110) W070 (50-100)
008	Waterbodem (AS3000)	MM 8 W231 (70-120) W232 (80-130) W233 (80-130) W234 (70-120) W235 (70-120) W236 (80-130) W237 (90-140) W238 (70-120) W239 (60-110) W240 (70-120)
009	Waterbodem (AS3000)	MM 9 W241 (140-190) W242 (120-170) W243 (150-200) W244 (130-180) W245 (100-150) W246 (130-180) W247 (150-200) W248 (130-180) W249 (120-170) W250 (120-170)
010	Waterbodem (AS3000)	MM 10 W071 (100-150) W072 (100-150) W073 (100-150) W074 (100-150) W075 (100-150) W077 (100-150) W079 (100-150) W079-1 (100-150) W079-2 (100-150) W079-3 (100-150)

Analyse	Eenheid	Q	006	007	008	009	010
<i>ANALYSES UITGEVOERD DOOR DERDEN</i>							
PFAS (30) en GENX			zie bijlage	zie bijlage	zie bijlage	zie bijlage	zie bijlage

Paraaf :

Analysrapport

Projectnaam Eckeltsebeek te Bergen
 Projectnummer 0302WAL/19
 Rapportnummer 13138114 - 1

Orderdatum 01-11-2019
 Startdatum 01-11-2019
 Rapportagedatum 13-11-2019

Monster beschrijvingen

- | | | |
|-----|---|--|
| 006 | * | De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk. |
| 007 | * | De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk. |
| 008 | * | De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk. |
| 009 | * | De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk. |
| 010 | * | De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk. |

Paraaf :

Analyserapport

Projectnaam Eckeltsebeek te Bergen
Projectnummer 0302WAL/19
Rapportnummer 13138114 - 1

Orderdatum 01-11-2019
Startdatum 01-11-2019
Rapportagedatum 13-11-2019

Nummer	Monstersoort	Monsterspecificatie
011	Waterbodem (AS3000)	MM 11 W076 (100-150) W078 (100-150) W080 (100-150) W080-1 (100-150) W080-2 (100-150) W080-3 (100-150) W080-4 (100-150) W080-5 (100-150) W080-6 (100-150) W080-7 (100-150)
012	Waterbodem (AS3000)	MM 12 W081 (100-150) W082 (100-150) W083 (100-150) W084 (120-170) W085 (80-130) W086 (80-130) W087 (90-140) W088 (100-150) W089 (100-150) W090 (120-170)
013	Waterbodem (AS3000)	MM 13 W091 (80-130) W092 (50-100) W093 (50-100) W094 (70-120) W095 (50-100) W096 (40-90) W097 (40-90) W098 (40-90) W099 (50-100) W100 (40-90)
014	Waterbodem (AS3000)	MM 16 W211 (80-130) W212 (60-110) W213 (70-120) W214 (80-130) W215 (70-120) W216 (80-130) W217 (80-130) W218 (100-150) W219 (80-130) W220 (90-140)
015	Waterbodem (AS3000)	MM 17 W221 (70-120) W222 (70-120) W223 (80-130) W224 (80-130) W225 (70-120) W226 (50-100) W227 (50-100) W228 (60-110) W229 (50-100) W230 (70-120)

Analyse	Eenheid	Q	011	012	013	014	015
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ANALYSES UITGEVOERD DOOR DERDEN

PFAS (30) en GENX zie bijlage zie bijlage zie bijlage zie bijlage zie bijlage

Paraaf :

Analysrapport

Projectnaam Eckeltsebeek te Bergen
 Projectnummer 0302WAL/19
 Rapportnummer 13138114 - 1

Orderdatum 01-11-2019
 Startdatum 01-11-2019
 Rapportagedatum 13-11-2019

Monster beschrijvingen

- | | | |
|-----|---|--|
| 011 | * | De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk. |
| 012 | * | De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk. |
| 013 | * | De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk. |
| 014 | * | De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk. |
| 015 | * | De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk. |

Paraaf :

Analysrapport

Projectnaam Eckeltsebeek te Bergen
 Projectnummer 0302WAL/19
 Rapportnummer 13138114 - 1

Orderdatum 01-11-2019
 Startdatum 01-11-2019
 Rapportagedatum 13-11-2019

Nummer	Monstersoort	Monsterspecificatie
016	Waterbodem (AS3000)	MM 28 W251 (50-100) W252 (50-100) W253 (50-100) W254 (50-100) W255 (50-100) W256 (50-100) W257 (50-100) W258 (50-100) W259 (50-100) W260 (50-100)
Analyse	Eenheid	Q
		016

ANALYSES UITGEVOERD DOOR DERDEN

PFAS (30) en GENX

zie bijlage

Paraaf :

Analysrapport

Projectnaam Eckeltsebeek te Bergen
 Projectnummer 0302WAL/19
 Rapportnummer 13138114 - 1

Orderdatum 01-11-2019
 Startdatum 01-11-2019
 Rapportagedatum 13-11-2019

Analyse		Monstersoort	Relatie tot norm	
PFAS (30) en GENX		Waterbodem (AS3000)	Analyse uitbesteed	
Monster	Barcode	Aanlevering	Monstername	Verpakking
001	U9093167	30-10-2019	28-10-2019	ALC382
001	U9093164	30-10-2019	28-10-2019	ALC382
001	U9093169	30-10-2019	28-10-2019	ALC382
001	U9093170	30-10-2019	28-10-2019	ALC382
001	U9093166	30-10-2019	28-10-2019	ALC382
001	U9093165	30-10-2019	28-10-2019	ALC382
001	U9093171	30-10-2019	28-10-2019	ALC382
001	U9093161	30-10-2019	28-10-2019	ALC382
001	U9093160	30-10-2019	28-10-2019	ALC382
001	U9093162	30-10-2019	28-10-2019	ALC382
002	U9093175	30-10-2019	28-10-2019	ALC382
002	U9093173	30-10-2019	28-10-2019	ALC382
002	U9093174	30-10-2019	28-10-2019	ALC382
002	U9093176	30-10-2019	28-10-2019	ALC382
002	U9093178	30-10-2019	28-10-2019	ALC382
002	U9093172	30-10-2019	28-10-2019	ALC382
002	U9093163	30-10-2019	28-10-2019	ALC382
002	U9093177	30-10-2019	28-10-2019	ALC382
002	U9093159	30-10-2019	28-10-2019	ALC382
002	U9093168	30-10-2019	28-10-2019	ALC382
003	U9093283	30-10-2019	28-10-2019	ALC382
003	U9093280	30-10-2019	28-10-2019	ALC382
003	U9093296	30-10-2019	28-10-2019	ALC382
003	U9093285	30-10-2019	28-10-2019	ALC382
003	U9093282	30-10-2019	28-10-2019	ALC382
003	U9093279	30-10-2019	28-10-2019	ALC382
003	U9093284	30-10-2019	28-10-2019	ALC382
003	U9093281	30-10-2019	28-10-2019	ALC382
003	U9093286	30-10-2019	28-10-2019	ALC382
003	U9093297	30-10-2019	28-10-2019	ALC382
004	U9093294	30-10-2019	28-10-2019	ALC382
004	U9093295	30-10-2019	28-10-2019	ALC382
004	U9093293	30-10-2019	28-10-2019	ALC382
004	U9093292	30-10-2019	28-10-2019	ALC382
004	U9093288	30-10-2019	28-10-2019	ALC382
004	U9093298	30-10-2019	28-10-2019	ALC382
004	U9093289	30-10-2019	28-10-2019	ALC382
004	U9093290	30-10-2019	28-10-2019	ALC382
004	U9093291	30-10-2019	28-10-2019	ALC382
004	U9093287	30-10-2019	28-10-2019	ALC382
005	U9090384	30-10-2019	28-10-2019	ALC382
005	U9090386	30-10-2019	28-10-2019	ALC382

Paraaf :

Analysrapport

Projectnaam Eckeltsebeek te Bergen
 Projectnummer 0302WAL/19
 Rapportnummer 13138114 - 1

Orderdatum 01-11-2019
 Startdatum 01-11-2019
 Rapportagedatum 13-11-2019

Monster	Barcode	Aanlevering	Monstername	Verpakking
005	U9090383	30-10-2019	28-10-2019	ALC382
005	U9090380	30-10-2019	28-10-2019	ALC382
005	U9090381	30-10-2019	28-10-2019	ALC382
005	U9090390	30-10-2019	28-10-2019	ALC382
005	U9090387	30-10-2019	28-10-2019	ALC382
005	U9090385	30-10-2019	28-10-2019	ALC382
005	U9090389	30-10-2019	28-10-2019	ALC382
005	U9090382	30-10-2019	28-10-2019	ALC382
006	U9090392	30-10-2019	28-10-2019	ALC382
006	U9090388	30-10-2019	28-10-2019	ALC382
006	U9090394	30-10-2019	28-10-2019	ALC382
006	U9090395	30-10-2019	28-10-2019	ALC382
006	U9090399	30-10-2019	28-10-2019	ALC382
006	U9090396	30-10-2019	28-10-2019	ALC382
006	U9090397	30-10-2019	28-10-2019	ALC382
006	U9090398	30-10-2019	28-10-2019	ALC382
006	U9090393	30-10-2019	28-10-2019	ALC382
006	U9090391	30-10-2019	28-10-2019	ALC382
007	Y9901489	30-10-2019	29-10-2019	ALC201
007	Y9901487	30-10-2019	29-10-2019	ALC201
007	Y9901458	30-10-2019	29-10-2019	ALC201
007	Y9901455	30-10-2019	29-10-2019	ALC201
007	Y9901488	30-10-2019	29-10-2019	ALC201
007	Y9901457	30-10-2019	29-10-2019	ALC201
007	Y9901453	30-10-2019	29-10-2019	ALC201
007	Y9901459	30-10-2019	29-10-2019	ALC201
007	Y9901456	30-10-2019	29-10-2019	ALC201
007	Y9901454	30-10-2019	29-10-2019	ALC201
008	Y9901426	30-10-2019	29-10-2019	ALC201
008	Y9901470	30-10-2019	29-10-2019	ALC201
008	Y9901452	30-10-2019	29-10-2019	ALC201
008	Y9901474	30-10-2019	29-10-2019	ALC201
008	Y9901479	30-10-2019	29-10-2019	ALC201
008	Y9901482	30-10-2019	29-10-2019	ALC201
008	Y9901473	30-10-2019	29-10-2019	ALC201
008	Y9901451	30-10-2019	29-10-2019	ALC201
008	Y9901475	30-10-2019	29-10-2019	ALC201
008	Y9901477	30-10-2019	29-10-2019	ALC201
009	Y9901436	30-10-2019	29-10-2019	ALC201
009	Y9901434	30-10-2019	29-10-2019	ALC201
009	Y9901449	30-10-2019	29-10-2019	ALC201
009	Y9901447	30-10-2019	29-10-2019	ALC201
009	Y9901431	30-10-2019	29-10-2019	ALC201
009	Y9901433	30-10-2019	29-10-2019	ALC201
009	Y9901444	30-10-2019	29-10-2019	ALC201
009	Y9901435	30-10-2019	29-10-2019	ALC201

Paraaf :

Analysrapport

Projectnaam Eckeltsebeek te Bergen
 Projectnummer 0302WAL/19
 Rapportnummer 13138114 - 1

Orderdatum 01-11-2019
 Startdatum 01-11-2019
 Rapportagedatum 13-11-2019

Monster	Barcode	Aanlevering	Monstername	Verpakking
009	Y9901432	30-10-2019	29-10-2019	ALC201
009	Y9901430	30-10-2019	29-10-2019	ALC201
010	Y9901439	30-10-2019	29-10-2019	ALC201
010	Y9901418	30-10-2019	29-10-2019	ALC201
010	Y9901443	30-10-2019	29-10-2019	ALC201
010	Y9901421	30-10-2019	29-10-2019	ALC201
010	Y9901396	30-10-2019	29-10-2019	ALC201
010	Y9901420	30-10-2019	29-10-2019	ALC201
010	Y9901419	30-10-2019	29-10-2019	ALC201
010	Y9901438	30-10-2019	29-10-2019	ALC201
010	Y9901422	30-10-2019	29-10-2019	ALC201
010	Y9901428	30-10-2019	29-10-2019	ALC201
011	Y9901442	30-10-2019	29-10-2019	ALC201
011	Y9901441	30-10-2019	29-10-2019	ALC201
011	Y9901371	30-10-2019	29-10-2019	ALC201
011	Y9901425	30-10-2019	29-10-2019	ALC201
011	Y9901423	30-10-2019	29-10-2019	ALC201
011	Y9901266	30-10-2019	29-10-2019	ALC201
011	Y9901399	30-10-2019	29-10-2019	ALC201
011	Y9901398	30-10-2019	29-10-2019	ALC201
011	Y9901424	30-10-2019	29-10-2019	ALC201
011	Y9901448	30-10-2019	29-10-2019	ALC201
012	Y9901300	30-10-2019	30-10-2019	ALC201
012	Y9901304	30-10-2019	30-10-2019	ALC201
012	Y9901231	30-10-2019	30-10-2019	ALC201
012	Y9901234	30-10-2019	30-10-2019	ALC201
012	Y9901235	30-10-2019	30-10-2019	ALC201
012	Y9901302	30-10-2019	30-10-2019	ALC201
012	Y9901292	30-10-2019	30-10-2019	ALC201
012	Y9901293	30-10-2019	30-10-2019	ALC201
012	Y9901291	30-10-2019	30-10-2019	ALC201
012	Y9901294	30-10-2019	30-10-2019	ALC201
013	Y9901301	30-10-2019	30-10-2019	ALC201
013	Y9901250	30-10-2019	30-10-2019	ALC201
013	Y9901245	30-10-2019	30-10-2019	ALC201
013	Y9901236	30-10-2019	30-10-2019	ALC201
013	Y9901244	30-10-2019	30-10-2019	ALC201
013	Y9901214	30-10-2019	30-10-2019	ALC201
013	Y9901305	30-10-2019	30-10-2019	ALC201
013	Y9901299	30-10-2019	30-10-2019	ALC201
013	Y9901312	30-10-2019	30-10-2019	ALC201
013	Y9901314	30-10-2019	30-10-2019	ALC201
014	Y9901472	30-10-2019	29-10-2019	ALC201
014	Y9901481	30-10-2019	29-10-2019	ALC201
014	Y9901485	30-10-2019	29-10-2019	ALC201
014	Y9901437	30-10-2019	29-10-2019	ALC201

Paraaf :

Analysrapport

Projectnaam Eckeltsebeek te Bergen
Projectnummer 0302WAL/19
Rapportnummer 13138114 - 1

Orderdatum 01-11-2019
Startdatum 01-11-2019
Rapportagedatum 13-11-2019

Monster	Barcode	Aanlevering	Monstername	Verpakking
014	Y9901476	30-10-2019	29-10-2019	ALC201
014	Y9901484	30-10-2019	29-10-2019	ALC201
014	Y9901492	30-10-2019	29-10-2019	ALC201
014	Y9901471	01-11-2019	29-10-2019	ALC201
014	Y9901490	30-10-2019	29-10-2019	ALC201
014	Y9901480	30-10-2019	29-10-2019	ALC201
015	Y9901493	30-10-2019	29-10-2019	ALC201
015	Y9901446	30-10-2019	29-10-2019	ALC201
015	Y9901478	30-10-2019	29-10-2019	ALC201
015	Y9901427	30-10-2019	29-10-2019	ALC201
015	Y9901483	30-10-2019	29-10-2019	ALC201
015	Y9901429	30-10-2019	29-10-2019	ALC201
015	Y9901450	30-10-2019	29-10-2019	ALC201
015	Y9901486	30-10-2019	29-10-2019	ALC201
015	Y9901491	30-10-2019	29-10-2019	ALC201
015	Y9901445	30-10-2019	29-10-2019	ALC201
016	Y9901303	30-10-2019	30-10-2019	ALC201
016	Y9901241	30-10-2019	30-10-2019	ALC201
016	Y9901313	30-10-2019	30-10-2019	ALC201
016	Y9901248	30-10-2019	30-10-2019	ALC201
016	Y9901295	30-10-2019	30-10-2019	ALC201
016	Y9901297	30-10-2019	30-10-2019	ALC201
016	Y9901233	30-10-2019	30-10-2019	ALC201
016	Y9901296	30-10-2019	30-10-2019	ALC201
016	Y9901298	30-10-2019	30-10-2019	ALC201
016	Y9901306	30-10-2019	30-10-2019	ALC201

Paraaf :



SYNLAB Analytics & Services Sweden AB

Box 1083, 581 10 Linköping, Sweden

Tel: + 46 13 254 900 - Fax: + 46 13 121 728

Registered 556152-0916 Registered office: Linköping, Sweden


Ackred. nr 1006
Provning
ISO/IEC 17025


REPORT

issued by an Accredited Laboratory

Page 1 (2)

Report No. 19486142

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-06
Time of Arrival : 1110
Temperature at arrival :

Sample name : (13138114-001) MM 1 W001 (60-110) W002 (50-100) W
Sampling date : 2019-10-28
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P91866
Label-id @mis : 87928542

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
SS-EN 12880	Dry substance	79.3	± 7.93	%
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, linear	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOA, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorononanoic acid, PFNA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic acid, PFDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorundec. acid, PFUnDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordodec. acid, PFDoDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluortridec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluortetradecacid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorhexadec. acid, PFHxDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluoroctadec. acid, PFODA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	< 0.1	± 0.10	ug/kg TS

(*) : Method not accredited by Swedac

PFOA = Perfluorooctane acid PFOS = Perfluorooctane sulfonate

The stated uncertainty of measurement is calculated using a coverage k = 2. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

(continued)

Results refer only to the submitted sample. Unless the laboratory has written otherwise, the report may only be reproduced in its entirety.


SYNLAB Analytics & Services Sweden AB

Box 1083, 581 10 Linköping, Sweden
Tel: + 46 13 254 900 - Fax: + 46 13 121 728
Registered 556152-0916 Registered office: Linköping, Sweden



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REPORT

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Report No. 19486142
Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to
Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-06
Time of Arrival : 1110
Temperature at arrival :

Sample name : (13138114-001) MM 1 W001 (60-110) W002 (50-100) W
Sampling date : 2019-10-28
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P91866
Label-id @mis : 87928542

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
DIN 38414-14 mod.	PFOS, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOS, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluorodecanoic sulpho. PFDS	< 0.1		ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.5		ug/kg TS
DIN 38414-14 mod. (*)	N-EtFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluoroocta.sulp.amid,PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Comment

Increased reporting limit for N-MeFOSAA due to disturbances from other substances in the sample.

Linköping 2019-11-13

The report has been reviewed and approved by

Responsible reviewer

Control numbers 5783 0516 5919 3585

Results refer only to the submitted sample. Unless the laboratory has written otherwise, the report may only be reproduced in its entirety.



SYNLAB Analytics & Services Sweden AB

Box 1083, 581 10 Linköping, Sweden

Tel: + 46 13 254 900 - Fax: + 46 13 121 728

Registered 556152-0916 Registered office: Linköping, Sweden


Ackred. nr 1006
Provning
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REPORT

issued by an Accredited Laboratory

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Report No. 19486143

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-06
Time of Arrival : 1110
Temperature at arrival :

Sample name : (13138114-002) MM 2 W011 (100-150) W012 (80-130)
Sampling date : 2019-10-28
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P91866
Label-id @mis : 87928768

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
SS-EN 12880	Dry substance	73.2	± 7.32	%
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, linear	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOA, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorononanoic acid, PFNA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic acid, PFDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorundec. acid, PFUnDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordodec. acid, PFDoDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluortridec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluortetradecacid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorhexadec. acid, PFHxDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluoroctadec. acid, PFODA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	0.14	± 0.10	ug/kg TS

(*) : Method not accredited by Swedac

PFOA = Perfluorooctane acid PFOS = Perfluorooctane sulfonate

The stated uncertainty of measurement is calculated using a coverage k = 2. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

(continued)

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SYNLAB Analytics & Services Sweden AB

Box 1083, 581 10 Linköping, Sweden
Tel: + 46 13 254 900 - Fax: + 46 13 121 728
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REPORT

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Page 2 (2)

Report No. 19486143
Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to
Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-06
Time of Arrival : 1110
Temperature at arrival :

Sample name : (13138114-002) MM 2 W011 (100-150) W012 (80-130)
Sampling date : 2019-10-28
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P91866
Label-id @mis : 87928768

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
DIN 38414-14 mod.	PFOS, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOS, total	0.14	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluorodecanoic sulpho. PFDS	< 0.1		ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.5		ug/kg TS
DIN 38414-14 mod. (*)	N-EtFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluoroocta.sulp.amid, PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.5		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Comment

Increased reporting limit for some PFAS due to disturbances from other substances in the sample.

Linköping 2019-11-13

The report has been reviewed and approved by

Responsible reviewer

Control numbers 5688 0116 5119 3881

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Report No. 19486144

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-06
Time of Arrival : 1110
Temperature at arrival :

Sample name : (13138114-003) MM 3 W021 (80-130) W022 (70-120) W
Sampling date : 2019-10-28
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P91866
Label-id @mis : 87928166

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
SS-EN 12880	Dry substance	83.5	± 8.35	%
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, linear	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOA, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorononanoic acid, PFNA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic acid, PFDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorundec. acid, PFUnDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordodec. acid, PFDoDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluortridec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluortetradecacid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorhexadec. acid, PFHxDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluoroctadec. acid, PFODA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	0.16	± 0.10	ug/kg TS

(*) : Method not accredited by Swedac

PFOA = Perfluorooctane acid PFOS = Perfluorooctane sulfonate

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

(continued)

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Report No. 19486144
Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to
Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-06
Time of Arrival : 1110
Temperature at arrival :

Sample name : (13138114-003) MM 3 W021 (80-130) W022 (70-120) W
Sampling date : 2019-10-28
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P91866
Label-id @mis : 87928166

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
DIN 38414-14 mod.	PFOS, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOS, total	0.16	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluorodecanoic sulpho. PFDS	< 0.1		ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-EtFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorocta.sulp.amid,PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Linköping 2019-11-12

The report has been reviewed and approved by

Responsible reviewer

Control numbers 5585 0616 5215 3381

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Box 1083, 581 10 Linköping, Sweden

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Report No. 19486145

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-06
Time of Arrival : 1110
Temperature at arrival :

Sample name : (13138114-004) MM 4 W031 (100-150) W032 (90-140)
Sampling date : 2019-10-28
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P91866
Label-id @mis : 87927255

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
SS-EN 12880	Dry substance	73.3	± 7.33	%
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, linear	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOA, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorononanoic acid, PFNA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic acid, PFDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorundec. acid, PFUnDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordodec. acid, PFDoDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluortridec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluortetradec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorhexadec. acid, PFHxDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluoroctadec. acid, PFODA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	< 0.1	± 0.10	ug/kg TS

(*) : Method not accredited by Swedac

PFOA = Perfluorooctane acid PFOS = Perfluorooctane sulfonate

The stated uncertainty of measurement is calculated using a coverage k = 2. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

(continued)

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Page 2 (2)

Report No. 19486145
Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to
Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-06
Time of Arrival : 1110
Temperature at arrival :

Sample name : (13138114-004) MM 4 W031 (100-150) W032 (90-140)
Sampling date : 2019-10-28
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P91866
Label-id @mis : 87927255

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
DIN 38414-14 mod.	PFOS, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOS, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluorodecanoic sulpho. PFDS	< 0.1		ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-EtFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorocta.sulp.amid,PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Linköping 2019-11-12

The report has been reviewed and approved by

Responsible reviewer

Control numbers 5488 0516 5910 3780

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Report No. 19486146

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-06
Time of Arrival : 1110
Temperature at arrival :

Sample name : (13138114-005) MM 5 W041 (100-150) W042 (100-150)
Sampling date : 2019-10-28
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P91866
Label-id @mis : 87926240

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
SS-EN 12880	Dry substance	74.2	± 7.42	%
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, linear	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOA, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorononanoic acid, PFNA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic acid, PFDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorundec. acid, PFUnDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordodec. acid, PFDoDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluortridec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluortetradecacid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorhexadec. acid, PFHxDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluoroctadec. acid, PFODA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	< 0.1	± 0.10	ug/kg TS

(*) : Method not accredited by Swedac

PFOA = Perfluorooctane acid PFOS = Perfluorooctane sulfonate

The stated uncertainty of measurement is calculated using a coverage k = 2. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

(continued)

Results refer only to the submitted sample. Unless the laboratory has written otherwise, the report may only be reproduced in its entirety.


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Report No. 19486146
Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to
Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-06
Time of Arrival : 1110
Temperature at arrival :

Sample name : (13138114-005) MM 5 W041 (100-150) W042 (100-150)
Sampling date : 2019-10-28
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P91866
Label-id @mis : 87926240

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
DIN 38414-14 mod.	PFOS, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOS, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluorodecanoic sulpho. PFDS	< 0.1		ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-EtFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorocta.sulp.amid,PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Linköping 2019-11-12

The report has been reviewed and approved by

Responsible reviewer

Control numbers 5385 0416 5915 3380

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Report No. 19486147

Assigner

SYNLAB Analytics & Services BV
Rotterdam

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3194AG ROTTERDAM, NL

Applies to

Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-06
Time of Arrival : 1110
Temperature at arrival :

Sample name : (13138114-006) MM 6 W051 (70-120) W052 (80-130) W
Sampling date : 2019-10-28
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P91866
Label-id @mis : 87926793

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
SS-EN 12880	Dry substance	63.4	± 6.34	%
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, linear	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOA, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorononanoic acid, PFNA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic acid, PFDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorundec. acid, PFUnDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordodec. acid, PFDoDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluortridec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluortetradec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorhexadec. acid, PFHxDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluoroctadec. acid, PFODA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	0.16	± 0.10	ug/kg TS

(*) : Method not accredited by Swedac

PFOA = Perfluorooctane acid PFOS = Perfluorooctane sulfonate

The stated uncertainty of measurement is calculated using a coverage k = 2. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

(continued)

Results refer only to the submitted sample. Unless the laboratory has written otherwise, the report may only be reproduced in its entirety.


SYNLAB Analytics & Services Sweden AB

Box 1083, 581 10 Linköping, Sweden
Tel: + 46 13 254 900 - Fax: + 46 13 121 728
Registered 556152-0916 Registered office: Linköping, Sweden



Akred. nr 1006
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REPORT

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Page 2 (2)

Report No. 19486147
Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to
Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-06
Time of Arrival : 1110
Temperature at arrival :

Sample name : (13138114-006) MM 6 W051 (70-120) W052 (80-130) W
Sampling date : 2019-10-28
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P91866
Label-id @mis : 87926793

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
DIN 38414-14 mod.	PFOS, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOS, total	0.16	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluorodecanoic sulpho. PFDS	< 0.1		ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-EtFOSAA	0.14		ug/kg TS
DIN 38414-14 mod.	Perfluorocta.sulp.amid,PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Linköping 2019-11-12

The report has been reviewed and approved by

Responsible reviewer

Control numbers 5287 0716 5119 3783

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SYNLAB Analytics & Services Sweden AB

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REPORT

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Page 1 (2)

Report No. 19486148

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-06
Time of Arrival : 1110
Temperature at arrival :

Sample name : (13138114-007) MM 7 W061 (50-100) W062 (50-100) W
Sampling date : 2019-10-29
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P91866
Label-id @mis : 87927093

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
SS-EN 12880	Dry substance	74.2	± 7.42	%
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, linear	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOA, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorononanoic acid, PFNA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic acid, PFDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorundec. acid, PFUnDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordodec. acid, PFDoDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluortridec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluortetradec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorhexadec. acid, PFHxDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluoroctadec. acid, PFODA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	< 0.1	± 0.10	ug/kg TS

(*) : Method not accredited by Swedac

PFOA = Perfluorooctane acid PFOS = Perfluorooctane sulfonate

The stated uncertainty of measurement is calculated using a coverage k = 2. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

(continued)

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Page 2 (2)

Report No. 19486148
Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to
Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-06
Time of Arrival : 1110
Temperature at arrival :

Sample name : (13138114-007) MM 7 W061 (50-100) W062 (50-100) W
Sampling date : 2019-10-29
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P91866
Label-id @mis : 87927093

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
DIN 38414-14 mod.	PFOS, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOS, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluorodecanoic sulpho. PFDS	< 0.1		ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-EtFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluoroocta.sulp.amid,PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Linköping 2019-11-12

The report has been reviewed and approved by

Responsible reviewer

Control numbers 5181 0916 5618 3388

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Page 1 (2)

Report No. 19486149

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-06
Time of Arrival : 1110
Temperature at arrival :

Sample name : (13138114-008) MM 8 W231 (70-120) W232 (80-130) W
Sampling date : 2019-10-29
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P91866
Label-id @mis : 87927451

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
SS-EN 12880	Dry substance	72.0	± 7.20	%
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, linear	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOA, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorononanoic acid, PFNA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic acid, PFDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorundec. acid, PFUnDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordodec. acid, PFDoDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluortridec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluortetradec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorhexadec. acid, PFHxDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluoroctadec. acid, PFODA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	< 0.1	± 0.10	ug/kg TS

(*) : Method not accredited by Swedac

PFOA = Perfluorooctane acid PFOS = Perfluorooctane sulfonate

The stated uncertainty of measurement is calculated using a coverage k = 2. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

(continued)

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Page 2 (2)

Report No. 19486149
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SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to
Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-06
Time of Arrival : 1110
Temperature at arrival :

Sample name : (13138114-008) MM 8 W231 (70-120) W232 (80-130) W
Sampling date : 2019-10-29
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P91866
Label-id @mis : 87927451

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
DIN 38414-14 mod.	PFOS, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOS, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluorodecanoic sulpho. PFDS	< 0.1		ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-EtFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluoroocta.sulp.amid,PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Linköping 2019-11-12

The report has been reviewed and approved by

Responsible reviewer

Control numbers 5089 0216 5718 3286

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Box 1083, 581 10 Linköping, Sweden

Tel: + 46 13 254 900 - Fax: + 46 13 121 728

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Page 1 (2)

Report No. 19486150

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-06
Time of Arrival : 1110
Temperature at arrival :

Sample name : (13138114-009) MM 9 W241 (140-190) W242 (120-170)
Sampling date : 2019-10-29
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P91866
Label-id @mis : 87927676

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
SS-EN 12880	Dry substance	70.0	± 7.00	%
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, linear	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOA, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorononanoic acid, PFNA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic acid, PFDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorundec. acid, PFUnDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordodec. acid, PFDoDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluortridec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluortetradecacid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorhexadec. acid, PFHxDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluoroctadec. acid, PFODA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	< 0.1	± 0.10	ug/kg TS

(*) : Method not accredited by Swedac

PFOA = Perfluorooctane acid PFOS = Perfluorooctane sulfonate

The stated uncertainty of measurement is calculated using a coverage k = 2. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

(continued)

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REPORT

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Page 2 (2)

Report No. 19486150
Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to
Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-06
Time of Arrival : 1110
Temperature at arrival :

Sample name : (13138114-009) MM 9 W241 (140-190) W242 (120-170)
Sampling date : 2019-10-29
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P91866
Label-id @mis : 87927676

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
DIN 38414-14 mod.	PFOS, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOS, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluorodecanoic sulpho. PFDS	< 0.1		ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	< 0.2		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-EtFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluoroocta.sulp.amid, PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Comment

Increased reporting limit for 10:2 FTS due to disturbances from other substances in the sample.

Linköping 2019-11-13

The report has been reviewed and approved by

Responsible reviewer

Control numbers 4983 0165 5711 3187

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Page 1 (2)

Report No. 19486151

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-06
Time of Arrival : 1110
Temperature at arrival :

Sample name : (13138114-010) MM 10 W071 (100-150) W072 (100-150)
Sampling date : 2019-10-29
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P91866
Label-id @mis : 87929412

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
SS-EN 12880	Dry substance	48.8	± 4.88	%
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, linear	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOA, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorononanoic acid, PFNA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic acid, PFDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorundec. acid, PFUnDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordodec. acid, PFDoDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluortridec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluortetradec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorhexadec. acid, PFHxDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluoroctadec. acid, PFODA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	< 0.1	± 0.10	ug/kg TS

(*) : Method not accredited by Swedac

PFOA = Perfluorooctane acid PFOS = Perfluorooctane sulfonate

The stated uncertainty of measurement is calculated using a coverage k = 2. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

(continued)

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Page 2 (2)

Report No. 19486151
Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to
Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-06
Time of Arrival : 1110
Temperature at arrival :

Sample name : (13138114-010) MM 10 W071 (100-150) W072 (100-150)
Sampling date : 2019-10-29
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P91866
Label-id @mis : 87929412

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
DIN 38414-14 mod.	PFOS, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOS, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluorodecanoic sulpho. PFDS	< 0.1		ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	< 0.4		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-EtFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluoroocta.sulp.amid, PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Comment

Increased reporting limit for 10:2 FTS due to disturbances from other substances in the sample.

Linköping 2019-11-13

The report has been reviewed and approved by

Responsible reviewer

Control numbers 4884 0164 5313 3980

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Box 1083, 581 10 Linköping, Sweden

Tel: + 46 13 254 900 - Fax: + 46 13 121 728

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REPORT

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Page 1 (2)

Report No. 19486152

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-06
Time of Arrival : 1110
Temperature at arrival :

Sample name : (13138114-011) MM 11 W076 (100-150) W078 (100-150)
Sampling date : 2019-10-29
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P91866
Label-id @mis : 87929544

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
SS-EN 12880	Dry substance	73.9	± 7.39	%
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, linear	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOA, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorononanoic acid, PFNA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic acid, PFDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorundec. acid, PFUnDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordodec. acid, PFDoDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluortridec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluortetradecacid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorhexadec. acid, PFHxDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluoroctadec. acid, PFODA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	< 0.1	± 0.10	ug/kg TS

(*) : Method not accredited by Swedac

PFOA = Perfluorooctane acid PFOS = Perfluorooctane sulfonate

The stated uncertainty of measurement is calculated using a coverage k = 2. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

(continued)

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Report No. 19486152
Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to
Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-06
Time of Arrival : 1110
Temperature at arrival :

Sample name : (13138114-011) MM 11 W076 (100-150) W078 (100-150)
Sampling date : 2019-10-29
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P91866
Label-id @mis : 87929544

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
DIN 38414-14 mod.	PFOS, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOS, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluorodecanoic sulpho. PFDS	< 0.1		ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-EtFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorocta.sulp.amid,PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Linköping 2019-11-12

The report has been reviewed and approved by

Responsible reviewer

Control numbers 4784 0161 5017 3687

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Box 1083, 581 10 Linköping, Sweden

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Page 1 (2)

Report No. 19486153

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-06
Time of Arrival : 1110
Temperature at arrival :

Sample name : (13138114-012) MM 12 W081 (100-150) W082 (100-150)
Sampling date : 2019-10-30
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P91866
Label-id @mis : 87928447

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
SS-EN 12880	Dry substance	56.6	± 5.66	%
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, linear	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOA, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorononanoic acid, PFNA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic acid, PFDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorundec. acid, PFUnDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordodec. acid, PFDoDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluortridec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluortetradec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorhexadec. acid, PFHxDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluoroctadec. acid, PFODA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	< 0.1	± 0.10	ug/kg TS

(*) : Method not accredited by Swedac

PFOA = Perfluorooctane acid PFOS = Perfluorooctane sulfonate

The stated uncertainty of measurement is calculated using a coverage k = 2. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

(continued)

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Page 2 (2)

Report No. 19486153
Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to
Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-06
Time of Arrival : 1110
Temperature at arrival :

Sample name : (13138114-012) MM 12 W081 (100-150) W082 (100-150)
Sampling date : 2019-10-30
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P91866
Label-id @mis : 87928447

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
DIN 38414-14 mod.	PFOS, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOS, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluorodecanoic sulpho. PFDS	< 0.1		ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-EtFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorocta.sulp.amid,PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Linköping 2019-11-12

The report has been reviewed and approved by

Responsible reviewer

Control numbers 4687 0160 5717 3083

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Box 1083, 581 10 Linköping, Sweden

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Page 1 (2)

Report No. 19486154

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-06
Time of Arrival : 1110
Temperature at arrival :

Sample name : (13138114-013) MM 13 W091 (80-130) W092 (50-100)
Sampling date : 2019-10-30
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P91866
Label-id @mis : 87926238

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
SS-EN 12880	Dry substance	65.7	± 6.57	%
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, linear	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOA, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorononanoic acid, PFNA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic acid, PFDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorundec. acid, PFUnDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordodec. acid, PFDoDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluortridec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluortetradecacid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorhexadec. acid, PFHxDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluoroctadec. acid, PFODA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	< 0.1	± 0.10	ug/kg TS

(*) : Method not accredited by Swedac

PFOA = Perfluorooctane acid PFOS = Perfluorooctane sulfonate

The stated uncertainty of measurement is calculated using a coverage k = 2. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

(continued)

Results refer only to the submitted sample. Unless the laboratory has written otherwise, the report may only be reproduced in its entirety.


SYNLAB Analytics & Services Sweden AB

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Page 2 (2)

Report No. 19486154
Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to
Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-06
Time of Arrival : 1110
Temperature at arrival :

Sample name : (13138114-013) MM 13 W091 (80-130) W092 (50-100)
Sampling date : 2019-10-30
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P91866
Label-id @mis : 87926238

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
DIN 38414-14 mod.	PFOS, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOS, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluorodecanoic sulpho. PFDS	< 0.1		ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-EtFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluoroccta.sulp.amid,PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Linköping 2019-11-12

The report has been reviewed and approved by

Responsible reviewer

Control numbers 4589 0163 5113 3686

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SYNLAB Analytics & Services Sweden AB

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Page 1 (2)

Report No. 19486155

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-06
Time of Arrival : 1110
Temperature at arrival :

Sample name : (13138114-014) MM 16 W211 (80-130) W212 (60-110)
Sampling date : 2019-10-29
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P91866
Label-id @mis : 87926740

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
SS-EN 12880	Dry substance	72.1	± 7.21	%
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, linear	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOA, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorononanoic acid, PFNA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic acid, PFDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorundec. acid, PFUnDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordodec. acid, PFDoDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluortridec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluortetradecacid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorhexadec. acid, PFHxDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluoroctadec. acid, PFODA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	< 0.1	± 0.10	ug/kg TS

(*) : Method not accredited by Swedac

PFOA = Perfluorooctane acid PFOS = Perfluorooctane sulfonate

The stated uncertainty of measurement is calculated using a coverage k = 2. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

(continued)

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Report No. 19486155
Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to
Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-06
Time of Arrival : 1110
Temperature at arrival :

Sample name : (13138114-014) MM 16 W211 (80-130) W212 (60-110)
Sampling date : 2019-10-29
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P91866
Label-id @mis : 87926740

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
DIN 38414-14 mod.	PFOS, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOS, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluorodecanoic sulpho. PFDS	< 0.1		ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-EtFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorocta.sulp.amid,PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Linköping 2019-11-12

The report has been reviewed and approved by

Responsible reviewer

Control numbers 4482 0168 5719 3684

Results refer only to the submitted sample. Unless the laboratory has written otherwise, the report may only be reproduced in its entirety.



SYNLAB Analytics & Services Sweden AB

Box 1083, 581 10 Linköping, Sweden

Tel: + 46 13 254 900 - Fax: + 46 13 121 728

Registered 556152-0916 Registered office: Linköping, Sweden


Ackred. nr 1006
Provning
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REPORT

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Page 1 (2)

Report No. 19486156

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-06
Time of Arrival : 1110
Temperature at arrival :

Sample name : (13138114-015) MM 17 W221 (70-120) W222 (70-120)
Sampling date : 2019-10-29
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P91866
Label-id @mis : 87927436

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
SS-EN 12880	Dry substance	75.1	± 7.51	%
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, linear	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOA, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorononanoic acid, PFNA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic acid, PFDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorundec. acid, PFUnDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordodec. acid, PFDoDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluortridec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluortetradecacid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorhexadec. acid, PFHxDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluoroctadec. acid, PFODA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	< 0.1	± 0.10	ug/kg TS

(*) : Method not accredited by Swedac

PFOA = Perfluorooctane acid PFOS = Perfluorooctane sulfonate

The stated uncertainty of measurement is calculated using a coverage k = 2. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

(continued)

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REPORT

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Page 2 (2)

Report No. 19486156
Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to
Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-06
Time of Arrival : 1110
Temperature at arrival :

Sample name : (13138114-015) MM 17 W221 (70-120) W222 (70-120)
Sampling date : 2019-10-29
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P91866
Label-id @mis : 87927436

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
DIN 38414-14 mod.	PFOS, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOS, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluorodecanoic sulpho. PFDS	< 0.1		ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-EtFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorocta.sulp.amid,PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Linköping 2019-11-12

The report has been reviewed and approved by

Responsible reviewer

Control numbers 4386 0168 5417 3583

Results refer only to the submitted sample. Unless the laboratory has written otherwise, the report may only be reproduced in its entirety.



SYNLAB Analytics & Services Sweden AB

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Provning
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REPORT

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Page 1 (2)

Report No. 19486157

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-06
Time of Arrival : 1110
Temperature at arrival :

Sample name : (13138114-016) MM 28 W251 (50-100) W252 (50-100)
Sampling date : 2019-10-30
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P91866
Label-id @mis : 87927603

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
SS-EN 12880	Dry substance	76.9	± 7.69	%
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, linear	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOA, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorononanoic acid, PFNA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic acid, PFDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorundec. acid, PFUnDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordodec. acid, PFDoDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluortridec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluortetradec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorhexadec. acid, PFHxDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluoroctadec. acid, PFODA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	< 0.1	± 0.10	ug/kg TS

(*) : Method not accredited by Swedac

PFOA = Perfluorooctane acid PFOS = Perfluorooctane sulfonate

The stated uncertainty of measurement is calculated using a coverage k = 2. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

(continued)

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SYNLAB Analytics & Services Sweden AB

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Tel: + 46 13 254 900 - Fax: + 46 13 121 728
Registered 556152-0916 Registered office: Linköping, Sweden



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REPORT

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Page 2 (2)

Report No. 19486157
Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to
Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-06
Time of Arrival : 1110
Temperature at arrival :

Sample name : (13138114-016) MM 28 W251 (50-100) W252 (50-100)
Sampling date : 2019-10-30
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P91866
Label-id @mis : 87927603

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
DIN 38414-14 mod.	PFOS, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOS, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluorodecanoic sulpho. PFDS	< 0.1		ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-EtFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorocta.sulp.amid,PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Linköping 2019-11-12

The report has been reviewed and approved by

Responsible reviewer

Control numbers 4285 0160 5815 3485

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MIL.TECH.ADV.BUREAU HEEL

Postbus 5049
6097 ZG HEEL

Blad 1 van 90

Uw projectnaam : Eckeltsebeek te Bergen
Uw projectnummer : 0302WAL/19
SYNLAB rapportnummer : 13139734, versienummer: 1
Rapport-verificatienummer : 97QD1TCZ

Rotterdam, 19-11-2019

Geachte heer/mevrouw,

Hierbij ontvangt u de analyse resultaten van het laboratoriumonderzoek ten behoeve van uw project 0302WAL/19. Het onderzoek werd uitgevoerd conform uw opdracht. De gerapporteerde resultaten hebben uitsluitend betrekking op de geteste monsters. De door u aangegeven omschrijvingen voor de monsters, het project en de monsternamedatum (indien aangeleverd) zijn overgenomen in dit analyserapport.

Het onderzoek is uitgevoerd door SYNLAB Analytics & Services B.V., gevestigd aan de Steenhouwerstraat 15 in Rotterdam (NL). Indien het onderzoek is uitgevoerd door derden of het SYNLAB laboratorium in Frankrijk (99-101 Avenue Louis Roche, Gennevilliers) is dit in het rapport aangegeven.

Dit analyserapport bestaat inclusief bijlagen uit 90 pagina's. In geval van een versienummer van '2' of hoger vervallen de voorgaande versies. Alle bijlagen maken onlosmakelijk onderdeel uit van het rapport. Alleen vermenigvuldiging van het hele rapport is toegestaan.

Mocht u vragen en/of opmerkingen hebben naar aanleiding van dit rapport, bijvoorbeeld als u nadere informatie nodig heeft over de meetonzekerheid van de analyseresultaten in dit rapport, dan verzoeken wij u vriendelijk contact op te nemen met de afdeling Customer Support.

Wij vertrouwen er op u met deze informatie van dienst te zijn.

Hoogachtend,

Technical Director

Analyserapport

Projectnaam Eckeltsebeek te Bergen
Projectnummer 0302WAL/19
Rapportnummer 13139734 - 1

Orderdatum 05-11-2019
Startdatum 05-11-2019
Rapportagedatum 19-11-2019

Nummer	Monstersoort	Monsterspecificatie
001	Waterbodem (AS3000)	MM 14 W101 (40-90) W102 (50-100) W103 (30-60) W104 (30-50) W105 (30-50) W106 (30-50) W107 (30-50) W108 (30-50) W109 (30-50) W110 (30-50)
002	Waterbodem (AS3000)	MM 15 W111 (30-50) W112 (30-50) W113 (20-50) W114 (30-50) W115 (30-50) W116 (30-50) W117 (30-50) W118 (30-50) W119 (30-50) W120 (30-50)
003	Waterbodem (AS3000)	MM 18 W121 (50-100) W122 (50-100) W123 (50-100) W124 (50-100) W125 (50-100) W126 (50-100) W127 (50-100) W128 (50-100) W129 (40-90) W130 (50-100)
004	Waterbodem (AS3000)	MM 19 W131 (40-90) W132 (50-100) W133 (40-90) W134 (40-90) W135 (50-100) W136 (40-90) W137 (50-100) W138 (50-100) W139 (50-100) W140 (40-90)
005	Waterbodem (AS3000)	MM 20 W141 (50-100) W142 (50-100) W143 (50-100) W144 (50-100) W145 (50-100) W146 (50-100) W147 (50-100) W148 (50-100) W149 (50-100) W150 (50-100)

Analyse	Eenheid	Q	001	002	003	004	005
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ANALYSES UITGEVOERD DOOR DERDEN

PFAS (30) en GENX			zie bijlage	zie bijlage	zie bijlage	zie bijlage	zie bijlage
-------------------	--	--	-------------	-------------	-------------	-------------	-------------

Paraaf :

Analysrapport

Projectnaam Eckeltsebeek te Bergen
 Projectnummer 0302WAL/19
 Rapportnummer 13139734 - 1

Orderdatum 05-11-2019
 Startdatum 05-11-2019
 Rapportagedatum 19-11-2019

Monster beschrijvingen

- | | | |
|-----|---|--|
| 001 | * | De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk. |
| 002 | * | De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk. |
| 003 | * | De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk. |
| 004 | * | De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk. |
| 005 | * | De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk. |

Paraaf :

Analysrapport

Projectnaam Eckeltsebeek te Bergen
 Projectnummer 0302WAL/19
 Rapportnummer 13139734 - 1

Orderdatum 05-11-2019
 Startdatum 05-11-2019
 Rapportagedatum 19-11-2019

Monster beschrijvingen

- | | | |
|-----|---|--|
| 006 | * | De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk. |
| 007 | * | De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk. |
| 008 | * | De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk. |
| 009 | * | De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk. |
| 010 | * | De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk. |

Paraaf :

Analyserapport

Projectnaam Eckeltsebeek te Bergen
 Projectnummer 0302WAL/19
 Rapportnummer 13139734 - 1

Orderdatum 05-11-2019
 Startdatum 05-11-2019
 Rapportagedatum 19-11-2019

Nummer	Monstersoort	Monsterspecificatie
011	Waterbodem (AS3000)	MM 26 W201 (20-70) W202 (20-70) W203 (20-70) W204 (20-70) W205 (20-70) W206 (20-70) W207 (20-70) W208 (20-70) W209 (20-70) W210 (20-70)
012	Waterbodem (AS3000)	MM 27 W261 (100-150) W262 (100-150) W263 (80-130) W264 (80-130) W265 (80-130) W266 (100-150) W267 (80-130) W268 (100-150) W269 (80-130) W270 (100-150)
013	Waterbodem (AS3000)	MM 29 W271 (100-150) W272 (80-130) W273 (70-120) W274 (80-130) W275 (100-150) W276 (100-150) W277 (80-130) W278 (70-120) W279 (90-140) W280 (100-150)
014	Waterbodem (AS3000)	MM 30 W281 (120-170) W282 (100-150) W283 (120-170) W284 (100-150) W285 (130-180) W286 (120-170) W287 (100-150) W288 (120-170) W289 (100-150) W290 (120-170)
015	Waterbodem (AS3000)	MM 31 W291 (100-150) W292 (100-150) W293 (120-170) W294 (130-180) W295 (100-150) W296 (100-150) W297 (150-200) W298 (120-170) W299 (100-150) W300 (120-170)

Analyse	Eenheid	Q	011	012	013	014	015
<i>ANALYSES UITGEVOERD DOOR DERDEN</i>							
PFAS (30) en GENX			zie bijlage	zie bijlage	zie bijlage	zie bijlage	zie bijlage

Paraaf :

Analysrapport

Projectnaam Eckeltsebeek te Bergen
 Projectnummer 0302WAL/19
 Rapportnummer 13139734 - 1

Orderdatum 05-11-2019
 Startdatum 05-11-2019
 Rapportagedatum 19-11-2019

Monster beschrijvingen

- | | | |
|-----|---|--|
| 011 | * | De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk. |
| 012 | * | De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk. |
| 013 | * | De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk. |
| 014 | * | De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk. |
| 015 | * | De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk. |

Paraaf :

Analysrapport

Projectnaam Eckeltsebeek te Bergen
 Projectnummer 0302WAL/19
 Rapportnummer 13139734 - 1

Orderdatum 05-11-2019
 Startdatum 05-11-2019
 Rapportagedatum 19-11-2019

Nummer	Monstersoort	Monsterspecificatie
016	Waterbodem (AS3000)	MM 32 W301 (100-150) W302 (80-130) W303 (100-150) W304 (80-130) W305 (120-170) W306 (100-150) W307 (80-130) W308 (70-120) W309 (70-120) W310 (80-130)
017	Waterbodem (AS3000)	MM 09 O24 (0-50) O27 (0-50) O28 (0-50)
018	Waterbodem (AS3000)	MM 010 O26 (0-50) O68 (0-50)
019	Waterbodem (AS3000)	MM 011 O29 (0-50) O30 (0-50) O31 (0-50)
020	Waterbodem (AS3000)	MM 012 O32 (0-50) O33 (0-50) O34 (0-50)

Analyse	Eenheid	Q	016	017	018	019	020
<i>ANALYSES UITGEVOERD DOOR DERDEN</i>							
PFAS (30) en GENX			zie bijlage	zie bijlage	zie bijlage	zie bijlage	zie bijlage

Paraaf :

Analyserapport

Projectnaam Eckeltsebeek te Bergen
 Projectnummer 0302WAL/19
 Rapportnummer 13139734 - 1

Orderdatum 05-11-2019
 Startdatum 05-11-2019
 Rapportagedatum 19-11-2019

Monster beschrijvingen

- | | | |
|-----|---|--|
| 016 | * | De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk. |
| 017 | * | De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk. |
| 018 | * | De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk. |
| 019 | * | De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk. |
| 020 | * | De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk. |

Paraaf :

Analyserapport

Projectnaam Eckeltsebeek te Bergen
Projectnummer 0302WAL/19
Rapportnummer 13139734 - 1

Orderdatum 05-11-2019
Startdatum 05-11-2019
Rapportagedatum 19-11-2019

Nummer	Monstersoort	Monsterspecificatie
021	Waterbodem (AS3000)	MM O13 O66 (0-50) O67 (0-50) O69 (0-50)
022	Waterbodem (AS3000)	MM O14 O70 (0-50) O71 (0-50) O72 (0-50)
023	Waterbodem (AS3000)	MM O15 O35 (0-50) O43 (0-50)
024	Waterbodem (AS3000)	MM O16 O36 (0-50) O37 (0-50) O38 (0-50)
025	Waterbodem (AS3000)	MM O17 O39 (0-50) O40 (0-50) O41 (0-50)

Analyse	Eenheid	Q	021	022	023	024	025
ANALYSES UITGEVOERD DOOR DERDEN							
PFAS (30) en GENX			zie bijlage	zie bijlage	zie bijlage	zie bijlage	zie bijlage

Paraaf :

Analyserapport

Projectnaam Eckeltsebeek te Bergen
 Projectnummer 0302WAL/19
 Rapportnummer 13139734 - 1

Orderdatum 05-11-2019
 Startdatum 05-11-2019
 Rapportagedatum 19-11-2019

Monster beschrijvingen

- | | | |
|-----|---|--|
| 021 | * | De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk. |
| 022 | * | De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk. |
| 023 | * | De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk. |
| 024 | * | De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk. |
| 025 | * | De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk. |

Paraaf :

Analyserapport

Projectnaam Eckeltsebeek te Bergen
 Projectnummer 0302WAL/19
 Rapportnummer 13139734 - 1

Orderdatum 05-11-2019
 Startdatum 05-11-2019
 Rapportagedatum 19-11-2019

Nummer	Monstersoort	Monsterspecificatie
026	Waterbodem (AS3000)	MM O18 O42 (0-50)
027	Waterbodem (AS3000)	MM O19 O44 (0-50) O45 (0-50)
028	Waterbodem (AS3000)	MM O20 O46 (0-50) O47 (0-50) O48 (0-50)
029	Waterbodem (AS3000)	MM O21 O49 (0-50) O50 (0-50)
030	Waterbodem (AS3000)	MM O22 O51 (0-50) O53 (0-50) O54 (0-50)

Analyse	Eenheid	Q	026	027	028	029	030
<i>ANALYSES UITGEVOERD DOOR DERDEN</i>							
PFAS (30) en GENX			zie bijlage	zie bijlage	zie bijlage	zie bijlage	zie bijlage

Paraaf :

Analysrapport

Projectnaam Eckeltsebeek te Bergen
 Projectnummer 0302WAL/19
 Rapportnummer 13139734 - 1

Orderdatum 05-11-2019
 Startdatum 05-11-2019
 Rapportagedatum 19-11-2019

Monster beschrijvingen

- | | | |
|-----|---|--|
| 026 | * | De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk. |
| 027 | * | De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk. |
| 028 | * | De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk. |
| 029 | * | De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk. |
| 030 | * | De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk. |

Paraaf :

Analyserapport

Projectnaam Eckeltsebeek te Bergen
 Projectnummer 0302WAL/19
 Rapportnummer 13139734 - 1

Orderdatum 05-11-2019
 Startdatum 05-11-2019
 Rapportagedatum 19-11-2019

Nummer	Monstersoort	Monsterspecificatie
031	Waterbodem (AS3000)	MM O23 O52 (0-50) O65 (0-50)
032	Waterbodem (AS3000)	MM O24 O55 (0-50) O59 (0-50)
033	Waterbodem (AS3000)	MM O25 O56 (0-50) O57 (0-50) O58 (0-50)
034	Waterbodem (AS3000)	MM O26 O60 (0-50) O61 (0-50) O62 (0-50)
035	Waterbodem (AS3000)	MM O27 O63 (0-50) O64 (0-50)

Analyse	Eenheid	Q	031	032	033	034	035
<i>ANALYSES UITGEVOERD DOOR DERDEN</i>							
PFAS (30) en GENX			zie bijlage	zie bijlage	zie bijlage	zie bijlage	zie bijlage

Paraaf :

Analyserapport

Projectnaam Eckeltsebeek te Bergen
 Projectnummer 0302WAL/19
 Rapportnummer 13139734 - 1

Orderdatum 05-11-2019
 Startdatum 05-11-2019
 Rapportagedatum 19-11-2019

Monster beschrijvingen

- | | | |
|-----|---|--|
| 031 | * | De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk. |
| 032 | * | De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk. |
| 033 | * | De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk. |
| 034 | * | De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk. |
| 035 | * | De monstervoorbehandeling en analyses zijn uitgevoerd conform Accreditatieschema AS3000, dit geldt alleen voor de analyses die worden gerapporteerd met het "S" kenmerk. |

Paraaf :

Analyserapport

Projectnaam Eckeltsebeek te Bergen
Projectnummer 0302WAL/19
Rapportnummer 13139734 - 1

Orderdatum 05-11-2019
Startdatum 05-11-2019
Rapportagedatum 19-11-2019

Analyse		Monstersoort	Relatie tot norm	
PFAS (30) en GENX		Waterbodem (AS3000)	Analyse uitbesteed	
Monster	Barcode	Aanlevering	Monstername	Verpakking
001	Y9901522	01-11-2019	31-10-2019	ALC201
001	Y9901464	01-11-2019	31-10-2019	ALC201
001	Y9901521	01-11-2019	31-10-2019	ALC201
001	Y9901520	01-11-2019	31-10-2019	ALC201
001	Y9901466	01-11-2019	31-10-2019	ALC201
001	Y9901525	01-11-2019	31-10-2019	ALC201
001	Y9901523	01-11-2019	31-10-2019	ALC201
001	Y9901353	01-11-2019	31-10-2019	ALC201
001	Y9901524	01-11-2019	31-10-2019	ALC201
001	Y9901494	01-11-2019	31-10-2019	ALC201
002	Y9901465	01-11-2019	31-10-2019	ALC201
002	Y9901531	01-11-2019	31-10-2019	ALC201
002	Y9901529	01-11-2019	31-10-2019	ALC201
002	Y9901468	01-11-2019	31-10-2019	ALC201
002	Y9901526	01-11-2019	31-10-2019	ALC201
002	Y9901527	01-11-2019	31-10-2019	ALC201
002	Y9901534	01-11-2019	31-10-2019	ALC201
002	Y9901530	01-11-2019	31-10-2019	ALC201
002	Y9901535	01-11-2019	31-10-2019	ALC201
002	Y9901532	01-11-2019	31-10-2019	ALC201
003	Y9901510	01-11-2019	01-11-2019	ALC201
003	Y9901544	01-11-2019	01-11-2019	ALC201
003	Y9901502	01-11-2019	01-11-2019	ALC201
003	Y9901496	01-11-2019	01-11-2019	ALC201
003	Y9901539	01-11-2019	01-11-2019	ALC201
003	Y9901542	01-11-2019	01-11-2019	ALC201
003	Y9901499	01-11-2019	01-11-2019	ALC201
003	Y9901536	01-11-2019	01-11-2019	ALC201
003	Y9901495	01-11-2019	01-11-2019	ALC201
003	Y9901538	01-11-2019	01-11-2019	ALC201
004	Y9901537	01-11-2019	01-11-2019	ALC201
004	Y9901528	01-11-2019	01-11-2019	ALC201
004	Y9901461	01-11-2019	01-11-2019	ALC201
004	Y9901500	01-11-2019	01-11-2019	ALC201
004	Y9901463	01-11-2019	01-11-2019	ALC201
004	Y9901498	01-11-2019	01-11-2019	ALC201
004	Y9901533	01-11-2019	01-11-2019	ALC201
004	Y9901507	01-11-2019	01-11-2019	ALC201
004	Y9901509	01-11-2019	01-11-2019	ALC201
004	Y9901506	01-11-2019	01-11-2019	ALC201
005	Y9901560	01-11-2019	01-11-2019	ALC201
005	Y9901550	01-11-2019	01-11-2019	ALC201

Paraaf :

Analysereport

Projectnaam Eckeltsebeek te Bergen
Projectnummer 0302WAL/19
Rapportnummer 13139734 - 1

Orderdatum 05-11-2019
Startdatum 05-11-2019
Rapportagedatum 19-11-2019

Monster	Barcode	Aanlevering	Monstername	Verpakking
005	Y9901555	01-11-2019	01-11-2019	ALC201
005	Y9901563	01-11-2019	01-11-2019	ALC201
005	Y9901556	01-11-2019	01-11-2019	ALC201
005	Y9901541	01-11-2019	01-11-2019	ALC201
005	Y9901552	01-11-2019	01-11-2019	ALC201
005	Y9901554	01-11-2019	01-11-2019	ALC201
005	Y9901564	01-11-2019	01-11-2019	ALC201
005	Y9901558	01-11-2019	01-11-2019	ALC201
006	Y9901508	01-11-2019	01-11-2019	ALC201
006	Y9901497	01-11-2019	01-11-2019	ALC201
006	Y9901549	01-11-2019	01-11-2019	ALC201
006	Y9901559	01-11-2019	01-11-2019	ALC201
006	Y9901548	01-11-2019	01-11-2019	ALC201
006	Y9901562	01-11-2019	01-11-2019	ALC201
006	Y9901503	01-11-2019	01-11-2019	ALC201
006	Y9901557	01-11-2019	01-11-2019	ALC201
006	Y9901551	01-11-2019	01-11-2019	ALC201
006	Y9901546	01-11-2019	01-11-2019	ALC201
007	Y9901543	01-11-2019	01-11-2019	ALC201
007	Y9901545	01-11-2019	01-11-2019	ALC201
007	Y9901547	01-11-2019	01-11-2019	ALC201
007	Y9901553	01-11-2019	01-11-2019	ALC201
007	Y9901501	01-11-2019	01-11-2019	ALC201
007	Y9901512	01-11-2019	01-11-2019	ALC201
007	Y9901505	01-11-2019	01-11-2019	ALC201
007	Y9901511	01-11-2019	01-11-2019	ALC201
007	Y9901540	01-11-2019	01-11-2019	ALC201
007	Y9901504	01-11-2019	01-11-2019	ALC201
008	Y7786552	06-11-2019	04-11-2019	ALC201
008	Y7786562	06-11-2019	04-11-2019	ALC201
008	Y9903968	06-11-2019	04-11-2019	ALC201
008	Y7786551	06-11-2019	04-11-2019	ALC201
008	Y7786553	06-11-2019	04-11-2019	ALC201
008	Y9903991	06-11-2019	04-11-2019	ALC201
008	Y9903990	06-11-2019	04-11-2019	ALC201
008	Y9903961	06-11-2019	04-11-2019	ALC201
008	Y9903964	06-11-2019	04-11-2019	ALC201
008	Y9903995	06-11-2019	04-11-2019	ALC201
009	Y9903973	06-11-2019	04-11-2019	ALC201
009	Y9903971	06-11-2019	04-11-2019	ALC201
009	Y7786555	06-11-2019	04-11-2019	ALC201
009	Y7786554	06-11-2019	04-11-2019	ALC201
009	Y9903975	06-11-2019	04-11-2019	ALC201
009	Y7786560	06-11-2019	04-11-2019	ALC201
009	Y7786564	06-11-2019	04-11-2019	ALC201
009	Y9903963	06-11-2019	04-11-2019	ALC201

Paraaf

Analysrapport

Projectnaam Eckeltsebeek te Bergen
 Projectnummer 0302WAL/19
 Rapportnummer 13139734 - 1

Orderdatum 05-11-2019
 Startdatum 05-11-2019
 Rapportagedatum 19-11-2019

Monster	Barcode	Aanlevering	Monstername	Verpakking
009	Y9903962	06-11-2019	04-11-2019	ALC201
009	Y7786563	06-11-2019	04-11-2019	ALC201
010	Y9903970	06-11-2019	04-11-2019	ALC201
010	Y9903998	06-11-2019	04-11-2019	ALC201
010	Y9903976	06-11-2019	04-11-2019	ALC201
010	Y7786557	06-11-2019	04-11-2019	ALC201
010	Y9903967	06-11-2019	04-11-2019	ALC201
010	Y7402745	06-11-2019	04-11-2019	ALC201
010	Y9903988	06-11-2019	04-11-2019	ALC201
010	Y9903972	06-11-2019	04-11-2019	ALC201
010	Y9903969	06-11-2019	04-11-2019	ALC201
010	Y9903978	06-11-2019	04-11-2019	ALC201
011	Y9903966	06-11-2019	04-11-2019	ALC201
011	Y9903977	06-11-2019	04-11-2019	ALC201
011	Y7786561	06-11-2019	04-11-2019	ALC201
011	Y9903994	06-11-2019	04-11-2019	ALC201
011	Y9903980	06-11-2019	04-11-2019	ALC201
011	Y7402747	06-11-2019	04-11-2019	ALC201
011	Y9903965	06-11-2019	04-11-2019	ALC201
011	Y9903992	06-11-2019	04-11-2019	ALC201
011	Y9903979	06-11-2019	04-11-2019	ALC201
011	Y9903993	06-11-2019	04-11-2019	ALC201
012	Y9901249	30-10-2019	30-10-2019	ALC201
012	Y9901307	30-10-2019	30-10-2019	ALC201
012	Y9901239	30-10-2019	30-10-2019	ALC201
012	Y9901308	30-10-2019	30-10-2019	ALC201
012	Y7402701	30-10-2019	30-10-2019	ALC201
012	Y9901246	30-10-2019	30-10-2019	ALC201
012	Y9901309	30-10-2019	30-10-2019	ALC201
012	Y9901243	30-10-2019	30-10-2019	ALC201
012	Y9901310	30-10-2019	30-10-2019	ALC201
012	Y9901290	30-10-2019	30-10-2019	ALC201
013	Y9901360	01-11-2019	31-10-2019	ALC201
013	Y9901365	01-11-2019	31-10-2019	ALC201
013	Y9901369	01-11-2019	31-10-2019	ALC201
013	Y9901281	01-11-2019	31-10-2019	ALC201
013	Y9901269	01-11-2019	31-10-2019	ALC201
013	Y9901280	01-11-2019	31-10-2019	ALC201
013	Y9901352	01-11-2019	31-10-2019	ALC201
013	Y9901372	01-11-2019	31-10-2019	ALC201
013	Y9901359	01-11-2019	31-10-2019	ALC201
013	Y9901268	01-11-2019	31-10-2019	ALC201
014	Y9901361	01-11-2019	31-10-2019	ALC201
014	Y9901267	01-11-2019	31-10-2019	ALC201
014	Y9901277	01-11-2019	31-10-2019	ALC201
014	Y9901380	01-11-2019	31-10-2019	ALC201

Paraaf :

Analysrapport

Projectnaam Eckeltsebeek te Bergen
 Projectnummer 0302WAL/19
 Rapportnummer 13139734 - 1

Orderdatum 05-11-2019
 Startdatum 05-11-2019
 Rapportagedatum 19-11-2019

Monster	Barcode	Aanlevering	Monstername	Verpakking
014	Y9901276	01-11-2019	31-10-2019	ALC201
014	Y9901370	01-11-2019	31-10-2019	ALC201
014	Y9901279	01-11-2019	31-10-2019	ALC201
014	Y9901378	01-11-2019	31-10-2019	ALC201
014	Y9901379	01-11-2019	31-10-2019	ALC201
014	Y9901377	01-11-2019	31-10-2019	ALC201
015	Y9901364	01-11-2019	31-10-2019	ALC201
015	Y9901362	01-11-2019	31-10-2019	ALC201
015	Y9901351	01-11-2019	31-10-2019	ALC201
015	Y9901368	01-11-2019	31-10-2019	ALC201
015	Y9901354	01-11-2019	31-10-2019	ALC201
015	Y9901367	01-11-2019	31-10-2019	ALC201
015	Y9901358	01-11-2019	31-10-2019	ALC201
015	Y9901282	01-11-2019	31-10-2019	ALC201
015	Y9901275	01-11-2019	31-10-2019	ALC201
015	Y9901366	01-11-2019	31-10-2019	ALC201
016	Y9901363	01-11-2019	31-10-2019	ALC201
016	Y9901356	01-11-2019	31-10-2019	ALC201
016	Y9901519	01-11-2019	31-10-2019	ALC201
016	Y9901265	01-11-2019	31-10-2019	ALC201
016	Y9901467	01-11-2019	31-10-2019	ALC201
016	Y9901469	01-11-2019	31-10-2019	ALC201
016	Y9901460	01-11-2019	31-10-2019	ALC201
016	Y9901355	01-11-2019	31-10-2019	ALC201
016	Y9901357	01-11-2019	31-10-2019	ALC201
016	Y9901462	01-11-2019	31-10-2019	ALC201
017	Y9901336	30-10-2019	29-10-2019	ALC201
017	Y9901238	30-10-2019	30-10-2019	ALC201
017	Y9901223	30-10-2019	29-10-2019	ALC201
018	Y9901311	30-10-2019	30-10-2019	ALC201
018	Y9901338	30-10-2019	29-10-2019	ALC201
019	Y9901242	30-10-2019	30-10-2019	ALC201
019	Y9901417	30-10-2019	30-10-2019	ALC201
019	Y9901247	30-10-2019	30-10-2019	ALC201
020	Y9901393	30-10-2019	30-10-2019	ALC201
020	Y9901395	30-10-2019	30-10-2019	ALC201
020	Y9901389	30-10-2019	30-10-2019	ALC201
021	Y9901240	30-10-2019	30-10-2019	ALC201
021	Y9901384	30-10-2019	30-10-2019	ALC201
021	Y9901414	30-10-2019	30-10-2019	ALC201
022	Y9901392	30-10-2019	30-10-2019	ALC201
022	Y9901289	30-10-2019	30-10-2019	ALC201
022	Y9901237	30-10-2019	30-10-2019	ALC201
023	Y9901375	30-10-2019	30-10-2019	ALC201
023	Y9901407	30-10-2019	30-10-2019	ALC201
024	Y9901400	30-10-2019	30-10-2019	ALC201

Paraaf :

Analysrapport

Projectnaam Eckeltsebeek te Bergen
Projectnummer 0302WAL/19
Rapportnummer 13139734 - 1

Orderdatum 05-11-2019
Startdatum 05-11-2019
Rapportagedatum 19-11-2019

Monster	Barcode	Aanlevering	Monstername	Verpakking
024	Y9901413	30-10-2019	30-10-2019	ALC201
024	Y9901388	30-10-2019	30-10-2019	ALC201
025	Y9901386	30-10-2019	30-10-2019	ALC201
025	Y9901391	30-10-2019	30-10-2019	ALC201
025	Y9901415	30-10-2019	30-10-2019	ALC201
026	Y9901403	30-10-2019	30-10-2019	ALC201
027	Y9901376	30-10-2019	30-10-2019	ALC201
027	Y9901382	30-10-2019	30-10-2019	ALC201
028	Y9901401	30-10-2019	30-10-2019	ALC201
028	Y9901405	30-10-2019	30-10-2019	ALC201
028	Y9901381	30-10-2019	30-10-2019	ALC201
029	Y9901373	30-10-2019	30-10-2019	ALC201
029	Y9901383	30-10-2019	30-10-2019	ALC201
030	Y9901374	30-10-2019	30-10-2019	ALC201
030	Y9901387	30-10-2019	30-10-2019	ALC201
030	Y9901278	30-10-2019	30-10-2019	ALC201
031	Y9901390	30-10-2019	30-10-2019	ALC201
031	Y9901411	30-10-2019	30-10-2019	ALC201
032	Y9901385	30-10-2019	30-10-2019	ALC201
032	Y9901410	30-10-2019	30-10-2019	ALC201
033	Y9901409	30-10-2019	30-10-2019	ALC201
033	Y9901404	30-10-2019	30-10-2019	ALC201
033	Y9901402	30-10-2019	30-10-2019	ALC201
034	Y9901408	30-10-2019	30-10-2019	ALC201
034	Y9901416	30-10-2019	30-10-2019	ALC201
035	Y9901406	30-10-2019	30-10-2019	ALC201
035	Y9901394	30-10-2019	30-10-2019	ALC201

Paraaf :



SYNLAB Analytics & Services Sweden AB

Box 1083, 581 10 Linköping, Sweden

Tel: + 46 13 254 900 - Fax: + 46 13 121 728

Registered 556152-0916 Registered office: Linköping, Sweden


Ackred. nr 1006
Provning
ISO/IEC 17025


REPORT

issued by an Accredited Laboratory

Page 1 (2)

Report No. 19497788

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-12
Time of Arrival : 0900
Temperature at arrival :

Sample name : (13139734-001) MM 14 W101 (40-90) W102 (50-100) W
Sampling date : 2019-10-31
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P92147
Label-id @mis : 87967176

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
SS-EN 12880	Dry substance	73.7	± 7.37	%
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, linear	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOA, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorononanoic acid, PFNA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic acid, PFDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorundec. acid, PFUnDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordodec. acid, PFDoDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluortridec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluortetradec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorhexadec. acid, PFHxDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluoroctadec. acid, PFODA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	< 0.1	± 0.10	ug/kg TS

(*) : Method not accredited by Swedac

PFOA = Perfluorooctane acid PFOS = Perfluorooctane sulfonate

The stated uncertainty of measurement is calculated using a coverage k = 2. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

(continued)

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SYNLAB Analytics & Services Sweden AB

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Tel: + 46 13 254 900 - Fax: + 46 13 121 728
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Report No. 19497788
Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to
Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-12
Time of Arrival : 0900
Temperature at arrival :

Sample name : (13139734-001) MM 14 W101 (40-90) W102 (50-100) W
Sampling date : 2019-10-31
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P92147
Label-id @mis : 87967176

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
DIN 38414-14 mod.	PFOS, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOS, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluorodecanoic sulpho. PFDS	< 0.1		ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-EtFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorocta.sulp.amid,PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Linköping 2019-11-19

The report has been reviewed and approved by

Responsible reviewer

Control numbers 1116 8602 5903 2023

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SYNLAB Analytics & Services Sweden AB

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Page 1 (2)

Report No. 19497789

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-12
Time of Arrival : 0900
Temperature at arrival :

Sample name : (13139734-002) MM 15 W111 (30-50) W112 (30-50) W1
Sampling date : 2019-10-31
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P92147
Label-id @mis : 87967190

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
SS-EN 12880	Dry substance	72.4	± 7.24	%
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, linear	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOA, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorononanoic acid, PFNA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic acid, PFDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorundec. acid, PFUnDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordodec. acid, PFDoDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluortridec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluortetradecacid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorhexadec. acid, PFHxDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluoroctadec. acid, PFODA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	< 0.1	± 0.10	ug/kg TS

(*) : Method not accredited by Swedac

PFOA = Perfluorooctane acid PFOS = Perfluorooctane sulfonate

The stated uncertainty of measurement is calculated using a coverage k = 2. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

(continued)

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Report No. 19497789
Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to
Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-12
Time of Arrival : 0900
Temperature at arrival :

Sample name : (13139734-002) MM 15 W111 (30-50) W112 (30-50) W1
Sampling date : 2019-10-31
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P92147
Label-id @mis : 87967190

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
DIN 38414-14 mod.	PFOS, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOS, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluorodecanoic sulpho. PFDS	< 0.1		ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-EtFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorocta.sulp.amid,PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Linköping 2019-11-19

The report has been reviewed and approved by

Responsible reviewer

Control numbers 1016 8901 5809 2125

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Box 1083, 581 10 Linköping, Sweden

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Report No. 19497790

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-12
Time of Arrival : 0900
Temperature at arrival :

Sample name : (13139734-003) MM 18 W121 (50-100) W122 (50-100)
Sampling date : 2019-11-01
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P92147
Label-id @mis : 87967258

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
SS-EN 12880	Dry substance	76.2	± 7.62	%
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, linear	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOA, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorononanoic acid, PFNA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic acid, PFDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorundec. acid, PFUnDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordodec. acid, PFDoDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluortridec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluortetradecacid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorhexadec. acid, PFHxDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluoroctadec. acid, PFODA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	< 0.1	± 0.10	ug/kg TS

(*) : Method not accredited by Swedac

PFOA = Perfluorooctane acid PFOS = Perfluorooctane sulfonate

The stated uncertainty of measurement is calculated using a coverage k = 2. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

(continued)

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Report No. 19497790
Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to
Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-12
Time of Arrival : 0900
Temperature at arrival :

Sample name : (13139734-003) MM 18 W121 (50-100) W122 (50-100)
Sampling date : 2019-11-01
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P92147
Label-id @mis : 87967258

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
DIN 38414-14 mod.	PFOS, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOS, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluorodecanoic sulpho. PFDS	< 0.1		ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-EtFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorocta.sulp.amid,PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Linköping 2019-11-18

The report has been reviewed and approved by

Responsible reviewer

Control numbers 0169 8403 5204 2925

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Box 1083, 581 10 Linköping, Sweden

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REPORT

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Page 1 (2)

Report No. 19497791

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-12
Time of Arrival : 0900
Temperature at arrival :

Sample name : (13139734-004) MM 19 W131 (40-90) W132 (50-100) W
Sampling date : 2019-11-01
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P92147
Label-id @mis : 87967222

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
SS-EN 12880	Dry substance	76.1	± 7.61	%
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, linear	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOA, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorononanoic acid, PFNA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic acid, PFDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorundec. acid, PFUnDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordodec. acid, PFDoDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluortridec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluortetradec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorhexadec. acid, PFHxDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluoroctadec. acid, PFODA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	< 0.1	± 0.10	ug/kg TS

(*) : Method not accredited by Swedac

PFOA = Perfluorooctane acid PFOS = Perfluorooctane sulfonate

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

(continued)

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Report No. 19497791
Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to
Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-12
Time of Arrival : 0900
Temperature at arrival :

Sample name : (13139734-004) MM 19 W131 (40-90) W132 (50-100) W
Sampling date : 2019-11-01
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P92147
Label-id @mis : 87967222

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
DIN 38414-14 mod.	PFOS, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOS, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluorodecanoic sulpho. PFDS	< 0.1		ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-EtFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorocta.sulp.amid,PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Linköping 2019-11-19

The report has been reviewed and approved by

Responsible reviewer

Control numbers 0168 8800 5001 2721

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Box 1083, 581 10 Linköping, Sweden

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Report No. 19497792

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-12
Time of Arrival : 0900
Temperature at arrival :

Sample name : (13139734-005) MM 20 W141 (50-100) W142 (50-100)
Sampling date : 2019-11-01
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P92147
Label-id @mis : 87967251

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
SS-EN 12880	Dry substance	70.3	± 7.03	%
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, linear	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOA, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorononanoic acid, PFNA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic acid, PFDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorundec. acid, PFUnDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordodec. acid, PFDoDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluortridec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluortetradecacid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorhexadec. acid, PFHxDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluoroctadec. acid, PFODA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	< 0.1	± 0.10	ug/kg TS

(*) : Method not accredited by Swedac

PFOA = Perfluorooctane acid PFOS = Perfluorooctane sulfonate

The stated uncertainty of measurement is calculated using a coverage k = 2. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

(continued)

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SYNLAB Analytics & Services Sweden AB

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Report No. 19497792

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-12
Time of Arrival : 0900
Temperature at arrival :

Sample name : (13139734-005) MM 20 W141 (50-100) W142 (50-100)
Sampling date : 2019-11-01
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P92147
Label-id @mis : 87967251

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
DIN 38414-14 mod.	PFOS, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOS, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluorodecanoic sulpho. PFDS	< 0.1		ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-EtFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorocta.sulp.amid,PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Linköping 2019-11-19

The report has been reviewed and approved by

Responsible reviewer

Control numbers 0167 8209 5602 2024

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Report No. 19497793

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-12
Time of Arrival : 0900
Temperature at arrival :

Sample name : (13139734-006) MM 21 W151 (50-100) W152 (50-100)
Sampling date : 2019-11-01
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P92147
Label-id @mis : 87967256

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
SS-EN 12880	Dry substance	67.8	± 6.78	%
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, linear	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOA, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorononanoic acid, PFNA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic acid, PFDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorundec. acid, PFUnDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordodec. acid, PFDoDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluortridec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluortetradecacid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorhexadec. acid, PFHxDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluoroctadec. acid, PFODA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	< 0.1	± 0.10	ug/kg TS

(*) : Method not accredited by Swedac

PFOA = Perfluorooctane acid PFOS = Perfluorooctane sulfonate

The stated uncertainty of measurement is calculated using a coverage k = 2. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

(continued)

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Report No. 19497793
Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to
Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-12
Time of Arrival : 0900
Temperature at arrival :

Sample name : (13139734-006) MM 21 W151 (50-100) W152 (50-100)
Sampling date : 2019-11-01
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P92147
Label-id @mis : 87967256

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
DIN 38414-14 mod.	PFOS, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOS, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluorodecanoic sulpho. PFDS	< 0.1		ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-EtFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorocta.sulp.amid,PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Linköping 2019-11-18

The report has been reviewed and approved by

Responsible reviewer

Control numbers 0166 8805 5001 2228

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Box 1083, 581 10 Linköping, Sweden

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Report No. 19497794

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-12
Time of Arrival : 0900
Temperature at arrival :

Sample name : (13139734-007) MM 22 W161 (50-100) W162 (50-100)
Sampling date : 2019-11-01
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P92147
Label-id @mis : 87967262

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
SS-EN 12880	Dry substance	71.6	± 7.16	%
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, linear	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOA, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorononanoic acid, PFNA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic acid, PFDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorundec. acid, PFUnDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordodec. acid, PFDoDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluortridec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluortetradecacid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorhexadec. acid, PFHxDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluoroctadec. acid, PFODA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	0.19	± 0.10	ug/kg TS

(*) : Method not accredited by Swedac

PFOA = Perfluorooctane acid PFOS = Perfluorooctane sulfonate

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

(continued)

Results refer only to the submitted sample. Unless the laboratory has written otherwise, the report may only be reproduced in its entirety.


SYNLAB Analytics & Services Sweden AB

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Page 2 (2)

Report No. 19497794
Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to
Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-12
Time of Arrival : 0900
Temperature at arrival :

Sample name : (13139734-007) MM 22 W161 (50-100) W162 (50-100)
Sampling date : 2019-11-01
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P92147
Label-id @mis : 87967262

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
DIN 38414-14 mod.	PFOS, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOS, total	0.19	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluorodecanoic sulpho. PFDS	< 0.1		ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-EtFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorocta.sulp.amid,PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Linköping 2019-11-19

The report has been reviewed and approved by

Responsible reviewer

Control numbers 0165 8701 5802 2622

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SYNLAB Analytics & Services Sweden AB

Box 1083, 581 10 Linköping, Sweden

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Page 1 (2)

Report No. 19497795

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-12
Time of Arrival : 0900
Temperature at arrival :

Sample name : (13139734-008) MM 23 W171 (50-100) W172 (50-100)
Sampling date : 2019-11-04
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P92147
Label-id @mis : 88002261

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
SS-EN 12880	Dry substance	72.5	± 7.25	%
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, linear	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOA, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorononanoic acid, PFNA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic acid, PFDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorundec. acid, PFUnDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordodec. acid, PFDoDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluortridec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluortetradecacid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorhexadec. acid, PFHxDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluoroctadec. acid, PFODA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	< 0.1	± 0.10	ug/kg TS

(*) : Method not accredited by Swedac

PFOA = Perfluorooctane acid PFOS = Perfluorooctane sulfonate

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

(continued)

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REPORT

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Page 2 (2)

Report No. 19497795
Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to
Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-12
Time of Arrival : 0900
Temperature at arrival :

Sample name : (13139734-008) MM 23 W171 (50-100) W172 (50-100)
Sampling date : 2019-11-04
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P92147
Label-id @mis : 88002261

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
DIN 38414-14 mod.	PFOS, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOS, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluorodecanoic sulpho. PFDS	< 0.1		ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-EtFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorocta.sulp.amid,PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Linköping 2019-11-18

The report has been reviewed and approved by

Responsible reviewer

Control numbers 0164 8808 5208 2423

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Report No. 19497796

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-12
Time of Arrival : 0900
Temperature at arrival :

Sample name : (13139734-009) MM 24 W181 (30-80) W182 (40-90) W1
Sampling date : 2019-11-04
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P92147
Label-id @mis : 88001952

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
SS-EN 12880	Dry substance	78.0	± 7.80	%
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, linear	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOA, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorononanoic acid, PFNA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic acid, PFDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorundec. acid, PFUnDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordodec. acid, PFDoDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluortridec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluortetradecacid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorhexadec. acid, PFHxDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluoroctadec. acid, PFODA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	< 0.1	± 0.10	ug/kg TS

(*) : Method not accredited by Swedac

PFOA = Perfluorooctane acid PFOS = Perfluorooctane sulfonate

The stated uncertainty of measurement is calculated using a coverage k = 2. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

(continued)

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SYNLAB Analytics & Services Sweden AB

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Tel: + 46 13 254 900 - Fax: + 46 13 121 728
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Report No. 19497796
Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to
Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-12
Time of Arrival : 0900
Temperature at arrival :

Sample name : (13139734-009) MM 24 W181 (30-80) W182 (40-90) W1
Sampling date : 2019-11-04
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P92147
Label-id @mis : 88001952

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
DIN 38414-14 mod.	PFOS, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOS, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluorodecanoic sulpho. PFDS	< 0.1		ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-EtFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorocta.sulp.amid,PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Linköping 2019-11-18

The report has been reviewed and approved by

Responsible reviewer

Control numbers 0163 8202 5204 2122

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Page 1 (2)

Report No. 19497797

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-12
Time of Arrival : 0900
Temperature at arrival :

Sample name : (13139734-010) MM 25 W191 (20-70) W192 (30-80) W1
Sampling date : 2019-11-04
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P92147
Label-id @mis : 88001896

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
SS-EN 12880	Dry substance	75.7	± 7.57	%
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, linear	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOA, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorononanoic acid, PFNA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic acid, PFDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorundec. acid, PFUnDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordodec. acid, PFDoDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluortridec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluortetradec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorhexadec. acid, PFHxDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluoroctadec. acid, PFODA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	< 0.1	± 0.10	ug/kg TS

(*) : Method not accredited by Swedac

PFOA = Perfluorooctane acid PFOS = Perfluorooctane sulfonate

The stated uncertainty of measurement is calculated using a coverage k = 2. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

(continued)

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Report No. 19497797
Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to
Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-12
Time of Arrival : 0900
Temperature at arrival :

Sample name : (13139734-010) MM 25 W191 (20-70) W192 (30-80) W1
Sampling date : 2019-11-04
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P92147
Label-id @mis : 88001896

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
DIN 38414-14 mod.	PFOS, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOS, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluorodecanoic sulpho. PFDS	< 0.1		ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-EtFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorocta.sulp.amid,PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Linköping 2019-11-18

The report has been reviewed and approved by

Responsible reviewer

Control numbers 0162 8500 5702 2623

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Box 1083, 581 10 Linköping, Sweden

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Report No. 19497798

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-12
Time of Arrival : 0900
Temperature at arrival :

Sample name : (13139734-011) MM 26 W201 (20-70) W202 (20-70) W2
Sampling date : 2019-11-04
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P92147
Label-id @mis : 88000915

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
SS-EN 12880	Dry substance	79.7	± 7.97	%
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, linear	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOA, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorononanoic acid, PFNA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic acid, PFDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorundec. acid, PFUnDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordodec. acid, PFDoDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluortridec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluortetradec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorhexadec. acid, PFHxDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluoroctadec. acid, PFODA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	< 0.1	± 0.10	ug/kg TS

(*) : Method not accredited by Swedac

PFOA = Perfluorooctane acid PFOS = Perfluorooctane sulfonate

The stated uncertainty of measurement is calculated using a coverage k = 2. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

(continued)

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Report No. 19497798
Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to
Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-12
Time of Arrival : 0900
Temperature at arrival :

Sample name : (13139734-011) MM 26 W201 (20-70) W202 (20-70) W2
Sampling date : 2019-11-04
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P92147
Label-id @mis : 88000915

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
DIN 38414-14 mod.	PFOS, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOS, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluorodecanoic sulpho. PFDS	< 0.1		ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-EtFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluoroocta.sulp.amid,PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Linköping 2019-11-19

The report has been reviewed and approved by

Responsible reviewer

Control numbers 0161 8203 5207 2227

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Box 1083, 581 10 Linköping, Sweden

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Page 1 (2)

Report No. 19497799

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-12
Time of Arrival : 0900
Temperature at arrival :

Sample name : (13139734-012) MM 27 W261 (100-150) W262 (100-150)
Sampling date : 2019-10-30
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P92147
Label-id @mis : 87967249

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
SS-EN 12880	Dry substance	76.7	± 7.67	%
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, linear	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOA, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorononanoic acid, PFNA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic acid, PFDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorundec. acid, PFUnDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordodec. acid, PFDoDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluortridec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluortetradec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorhexadec. acid, PFHxDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluoroctadec. acid, PFODA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	< 0.1	± 0.10	ug/kg TS

(*) : Method not accredited by Swedac

PFOA = Perfluorooctane acid PFOS = Perfluorooctane sulfonate

The stated uncertainty of measurement is calculated using a coverage k = 2. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

(continued)

Results refer only to the submitted sample. Unless the laboratory has written otherwise, the report may only be reproduced in its entirety.


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Report No. 19497799
Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to
Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-12
Time of Arrival : 0900
Temperature at arrival :

Sample name : (13139734-012) MM 27 W261 (100-150) W262 (100-150)
Sampling date : 2019-10-30
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P92147
Label-id @mis : 87967249

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
DIN 38414-14 mod.	PFOS, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOS, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluorodecanoic sulpho. PFDS	< 0.1		ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-EtFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluoroccta.sulp.amid,PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Linköping 2019-11-19

The report has been reviewed and approved by

Responsible reviewer

Control numbers 0160 8301 5308 2122

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Report No. 19497800

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-12
Time of Arrival : 0900
Temperature at arrival :

Sample name : (13139734-013) MM 29 W271 (100-150) W272 (80-130)
Sampling date : 2019-10-31
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P92147
Label-id @mis : 87967214

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
SS-EN 12880	Dry substance	76.4	± 7.64	%
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, linear	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOA, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorononanoic acid, PFNA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic acid, PFDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorundec. acid, PFUnDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordodec. acid, PFDoDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluortridec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluortetradec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorhexadec. acid, PFHxDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluoroctadec. acid, PFODA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	< 0.1	± 0.10	ug/kg TS

(*) : Method not accredited by Swedac

PFOA = Perfluorooctane acid PFOS = Perfluorooctane sulfonate

The stated uncertainty of measurement is calculated using a coverage k = 2. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

(continued)

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SYNLAB Analytics & Services Sweden AB

Box 1083, 581 10 Linköping, Sweden
Tel: + 46 13 254 900 - Fax: + 46 13 121 728
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REPORT

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Page 2 (2)

Report No. 19497800
Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to
Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-12
Time of Arrival : 0900
Temperature at arrival :

Sample name : (13139734-013) MM 29 W271 (100-150) W272 (80-130)
Sampling date : 2019-10-31
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P92147
Label-id @mis : 87967214

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
DIN 38414-14 mod.	PFOS, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOS, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluorodecanoic sulpho. PFDS	< 0.1		ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-EtFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluoroceta.sulp.amid,PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Linköping 2019-11-19

The report has been reviewed and approved by

Responsible reviewer

Control numbers 9987 0958 0216 2118

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REPORT

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Page 1 (2)

Report No. 19497801

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-12
Time of Arrival : 0900
Temperature at arrival :

Sample name : (13139734-014) MM 30 W281 (120-170) W282 (100-150)
Sampling date : 2019-10-31
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P92147
Label-id @mis : 87967188

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
SS-EN 12880	Dry substance	79.2	± 7.92	%
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, linear	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOA, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorononanoic acid, PFNA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic acid, PFDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorundec. acid, PFUnDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordodec. acid, PFDoDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluortridec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluortetradec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorhexadec. acid, PFHxDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluoroctadec. acid, PFODA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	< 0.1	± 0.10	ug/kg TS

(*) : Method not accredited by Swedac

PFOA = Perfluorooctane acid PFOS = Perfluorooctane sulfonate

The stated uncertainty of measurement is calculated using a coverage k = 2. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

(continued)

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REPORT

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Page 2 (2)

Report No. 19497801

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-12
Time of Arrival : 0900
Temperature at arrival :

Sample name : (13139734-014) MM 30 W281 (120-170) W282 (100-150)
Sampling date : 2019-10-31
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P92147
Label-id @mis : 87967188

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
DIN 38414-14 mod.	PFOS, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOS, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluorodecanoic sulpho. PFDS	< 0.1		ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-EtFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorocta.sulp.amid,PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Linköping 2019-11-19

The report has been reviewed and approved by

Responsible reviewer

Control numbers 9888 0558 0716 2014

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Box 1083, 581 10 Linköping, Sweden

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REPORT

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Page 1 (2)

Report No. 19497802

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-12
Time of Arrival : 0900
Temperature at arrival :

Sample name : (13139734-015) MM 31 W291 (100-150) W292 (100-150)
Sampling date : 2019-10-31
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P92147
Label-id @mis : 87967191

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
SS-EN 12880	Dry substance	68.0	± 6.80	%
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, linear	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOA, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorononanoic acid, PFNA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic acid, PFDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorundec. acid, PFUnDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordodec. acid, PFDoDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluortridec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluortetradec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorhexadec. acid, PFHxDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluoroctadec. acid, PFODA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	< 0.1	± 0.10	ug/kg TS

(*) : Method not accredited by Swedac

PFOA = Perfluorooctane acid PFOS = Perfluorooctane sulfonate

The stated uncertainty of measurement is calculated using a coverage k = 2. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

(continued)

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Page 2 (2)

Report No. 19497802
Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to
Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-12
Time of Arrival : 0900
Temperature at arrival :

Sample name : (13139734-015) MM 31 W291 (100-150) W292 (100-150)
Sampling date : 2019-10-31
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P92147
Label-id @mis : 87967191

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
DIN 38414-14 mod.	PFOS, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOS, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluorodecanoic sulpho. PFDS	< 0.1		ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-EtFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorocta.sulp.amid,PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Linköping 2019-11-18

The report has been reviewed and approved by

Responsible reviewer

Control numbers 9783 0951 0916 2317

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Box 1083, 581 10 Linköping, Sweden

Tel: + 46 13 254 900 - Fax: + 46 13 121 728

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REPORT

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Page 1 (2)

Report No. 19497803

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-12
Time of Arrival : 0900
Temperature at arrival :

Sample name : (13139734-016) MM 32 W301 (100-150) W302 (80-130)
Sampling date : 2019-10-31
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P92147
Label-id @mis : 87967264

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
SS-EN 12880	Dry substance	72.8	± 7.28	%
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, linear	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOA, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorononanoic acid, PFNA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic acid, PFDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorundec. acid, PFUnDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordodec. acid, PFDoDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluortridec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluortetradec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorhexadec. acid, PFHxDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluoroctadec. acid, PFODA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	< 0.1	± 0.10	ug/kg TS

(*) : Method not accredited by Swedac

PFOA = Perfluorooctane acid PFOS = Perfluorooctane sulfonate

The stated uncertainty of measurement is calculated using a coverage k = 2. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

(continued)

Results refer only to the submitted sample. Unless the laboratory has written otherwise, the report may only be reproduced in its entirety.


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REPORT

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Page 2 (2)

Report No. 19497803
Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to
Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-12
Time of Arrival : 0900
Temperature at arrival :

Sample name : (13139734-016) MM 32 W301 (100-150) W302 (80-130)
Sampling date : 2019-10-31
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P92147
Label-id @mis : 87967264

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
DIN 38414-14 mod.	PFOS, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOS, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluorodecanoic sulpho. PFDS	< 0.1		ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-EtFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorocta.sulp.amid,PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Linköping 2019-11-18

The report has been reviewed and approved by

Responsible reviewer

Control numbers 9680 0750 0516 2517

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Page 1 (2)

Report No. 19497804

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-12
Time of Arrival : 0900
Temperature at arrival :

Sample name : (13139734-017) MM O9 O24 (0-50) O27 (0-50) O28 (0
Sampling date : 2019-10-30
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P92147
Label-id @mis : 87967272

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
SS-EN 12880	Dry substance	69.3	± 6.93	%
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	0.11	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeA	0.10	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	0.13	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	0.16	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, linear	0.42	± 0.13	ug/kg TS
DIN 38414-14 mod.	PFOA, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOA, total	0.42	± 0.13	ug/kg TS
DIN 38414-14 mod.	Perfluorononanoic acid, PFNA	0.11	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic acid, PFDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorundec. acid, PFUnDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordodec. acid, PFDoDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluortridec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluortetradec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorhexadec. acid, PFHxDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluoroctadec. acid, PFODA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	0.10	± 0.10	ug/kg TS

(*) : Method not accredited by Swedac

PFOA = Perfluorooctane acid PFOS = Perfluorooctane sulfonate

The stated uncertainty of measurement is calculated using a coverage k = 2. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

(continued)

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Page 2 (2)

Report No. 19497804
Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to
Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-12
Time of Arrival : 0900
Temperature at arrival :

Sample name : (13139734-017) MM 09 024 (0-50) 027 (0-50) 028 (0
Sampling date : 2019-10-30
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P92147
Label-id @mis : 87967272

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
DIN 38414-14 mod.	PFOS, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOS, total	0.10	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluorodecanoic sulpho. PFDS	< 0.1		ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-EtFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorocta.sulp.amid,PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Linköping 2019-11-19

The report has been reviewed and approved by

Responsible reviewer

Control numbers 9585 0455 0616 2815

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SYNLAB Analytics & Services Sweden AB

Box 1083, 581 10 Linköping, Sweden

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REPORT

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Page 1 (2)

Report No. 19497805

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-12
Time of Arrival : 0900
Temperature at arrival :

Sample name : (13139734-018) MM O10 O26 (0-50) O68 (0-50)
Sampling date : 2019-10-30
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P92147
Label-id @mis : 87968146

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
SS-EN 12880	Dry substance	86.0	± 8.60	%
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	0.18	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeA	0.26	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	0.18	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	0.22	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, linear	0.86	± 0.26	ug/kg TS
DIN 38414-14 mod.	PFOA, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOA, total	0.86	± 0.26	ug/kg TS
DIN 38414-14 mod.	Perfluorononanoic acid, PFNA	0.74	± 0.22	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic acid, PFDA	0.33	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorundec. acid, PFUnDA	0.22	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordodec. acid, PFDoDA	0.15	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluortridec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluortetradec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorhexadec. acid, PFHxDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluoroctadec. acid, PFODA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	0.49	± 0.15	ug/kg TS

(*) : Method not accredited by Swedac

PFOA = Perfluorooctane acid PFOS = Perfluorooctane sulfonate

The stated uncertainty of measurement is calculated using a coverage k = 2. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

(continued)

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Page 2 (2)

Report No. 19497805
Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to
Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-12
Time of Arrival : 0900
Temperature at arrival :

Sample name : (13139734-018) MM O10 O26 (0-50) O68 (0-50)
Sampling date : 2019-10-30
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P92147
Label-id @mis : 87968146

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
DIN 38414-14 mod.	PFOS, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOS, total	0.49	± 0.15	ug/kg TS
DIN 38414-14 mod. (*)	Perfluorodecanoic sulpho. PFDS	< 0.1		ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	0.12		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-EtFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorocta.sulp.amid,PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Linköping 2019-11-19

The report has been reviewed and approved by

Responsible reviewer

Control numbers 9481 0550 0416 2512

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Box 1083, 581 10 Linköping, Sweden

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Page 1 (2)

Report No. 19497806

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-12
Time of Arrival : 0900
Temperature at arrival :

Sample name : (13139734-019) MM O11 O29 (0-50) O30 (0-50) O31 (
Sampling date : 2019-10-30
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P92147
Label-id @mis : 87967284

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
SS-EN 12880	Dry substance	93.2	± 9.32	%
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, linear	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOA, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorononanoic acid, PFNA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic acid, PFDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorundec. acid, PFUnDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordodec. acid, PFDoDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluortridec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluortetradecacid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorhexadec. acid, PFHxDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluoroctadec. acid, PFODA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	< 0.1	± 0.10	ug/kg TS

(*) : Method not accredited by Swedac

PFOA = Perfluorooctane acid PFOS = Perfluorooctane sulfonate

The stated uncertainty of measurement is calculated using a coverage k = 2. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

(continued)

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Page 2 (2)

Report No. 19497806
Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to
Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-12
Time of Arrival : 0900
Temperature at arrival :

Sample name : (13139734-019) MM O11 O29 (0-50) O30 (0-50) O31 (
Sampling date : 2019-10-30
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P92147
Label-id @mis : 87967284

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
DIN 38414-14 mod.	PFOS, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOS, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluorodecanoic sulpho. PFDS	< 0.1		ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-EtFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorocta.sulp.amid,PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Linköping 2019-11-19

The report has been reviewed and approved by

Responsible reviewer

Control numbers 9380 0256 0116 2514

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Box 1083, 581 10 Linköping, Sweden

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Page 1 (2)

Report No. 19497807

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-12
Time of Arrival : 0900
Temperature at arrival :

Sample name : (13139734-020) MM O12 O32 (0-50) O33 (0-50) O34 (
Sampling date : 2019-10-30
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P92147
Label-id @mis : 87967292

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
SS-EN 12880	Dry substance	94.7	± 9.47	%
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, linear	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOA, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorononanoic acid, PFNA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic acid, PFDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorundec. acid, PFUnDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordodec. acid, PFDoDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluortridec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluortetradecacid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorhexadec. acid, PFHxDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluoroctadec. acid, PFODA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	< 0.1	± 0.10	ug/kg TS

(*) : Method not accredited by Swedac

PFOA = Perfluorooctane acid PFOS = Perfluorooctane sulfonate

The stated uncertainty of measurement is calculated using a coverage k = 2. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

(continued)

Results refer only to the submitted sample. Unless the laboratory has written otherwise, the report may only be reproduced in its entirety.



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Page 2 (2)

Report No. 19497807

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-12
Time of Arrival : 0900
Temperature at arrival :

Sample name : (13139734-020) MM O12 O32 (0-50) O33 (0-50) O34 (
Sampling date : 2019-10-30
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P92147
Label-id @mis : 87967292

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
DIN 38414-14 mod.	PFOS, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOS, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluorodecanoic sulpho. PFDS	< 0.1		ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-EtFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorocta.sulp.amid, PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Linköping 2019-11-19

The report has been reviewed and approved by

Responsible reviewer

Control numbers 9287 0658 0116 2217

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SYNLAB Analytics & Services Sweden AB

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REPORT

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Page 1 (2)

Report No. 19497808

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-12
Time of Arrival : 0900
Temperature at arrival :

Sample name : (13139734-021) MM O13 O66 (0-50) O67 (0-50) O69 (
Sampling date : 2019-10-30
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P92147
Label-id @mis : 87967296

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
SS-EN 12880	Dry substance	90.3	± 9.03	%
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, linear	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOA, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorononanoic acid, PFNA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic acid, PFDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorundec. acid, PFUnDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordodec. acid, PFDoDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluortridec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluortetradecacid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorhexadec. acid, PFHxDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluoroctadec. acid, PFODA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	< 0.1	± 0.10	ug/kg TS

(*) : Method not accredited by Swedac

PFOA = Perfluorooctane acid PFOS = Perfluorooctane sulfonate

The stated uncertainty of measurement is calculated using a coverage k = 2. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

(continued)

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Page 2 (2)

Report No. 19497808
Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to
Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-12
Time of Arrival : 0900
Temperature at arrival :

Sample name : (13139734-021) MM O13 O66 (0-50) O67 (0-50) O69 (
Sampling date : 2019-10-30
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P92147
Label-id @mis : 87967296

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
DIN 38414-14 mod.	PFOS, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOS, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluorodecanoic sulpho. PFDS	< 0.1		ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-EtFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorocta.sulp.amid,PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Linköping 2019-11-19

The report has been reviewed and approved by

Responsible reviewer

Control numbers 9186 0157 0916 2210

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SYNLAB Analytics & Services Sweden AB

Box 1083, 581 10 Linköping, Sweden

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REPORT

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Page 1 (2)

Report No. 19497809

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-12
Time of Arrival : 0900
Temperature at arrival :

Sample name : (13139734-022) MM O14 O70 (0-50) O71 (0-50) O72 (
Sampling date : 2019-10-30
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P92147
Label-id @mis : 87967307

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
SS-EN 12880	Dry substance	90.3	± 9.03	%
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, linear	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOA, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorononanoic acid, PFNA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic acid, PFDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorundec. acid, PFUnDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordodec. acid, PFDoDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluortridec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluortetradecacid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorhexadec. acid, PFHxDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluoroctadec. acid, PFODA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	< 0.1	± 0.10	ug/kg TS

(*) : Method not accredited by Swedac

PFOA = Perfluorooctane acid PFOS = Perfluorooctane sulfonate

The stated uncertainty of measurement is calculated using a coverage k = 2. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

(continued)

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Page 2 (2)

Report No. 19497809
Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to
Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-12
Time of Arrival : 0900
Temperature at arrival :

Sample name : (13139734-022) MM O14 O70 (0-50) O71 (0-50) O72 (
Sampling date : 2019-10-30
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P92147
Label-id @mis : 87967307

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
DIN 38414-14 mod.	PFOS, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOS, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluorodecanoic sulpho. PFDS	< 0.1		ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-EtFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorocta.sulp.amid,PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Linköping 2019-11-19

The report has been reviewed and approved by

Responsible reviewer

Control numbers 9087 0951 0916 2612

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Box 1083, 581 10 Linköping, Sweden

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Page 1 (2)

Report No. 19497810

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-12
Time of Arrival : 0900
Temperature at arrival :

Sample name : (13139734-023) MM O15 O35 (0-50) O43 (0-50)
Sampling date : 2019-10-30
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P92147
Label-id @mis : 87968149

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
SS-EN 12880	Dry substance	58.7	± 5.87	%
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, linear	0.50	± 0.15	ug/kg TS
DIN 38414-14 mod.	PFOA, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOA, total	0.50	± 0.15	ug/kg TS
DIN 38414-14 mod.	Perfluorononanoic acid, PFNA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic acid, PFDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorundec. acid, PFUnDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordodec. acid, PFDoDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluortridec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluortetradecacid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorhexadec. acid, PFHxDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluoroctadec. acid, PFODA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	0.26	± 0.10	ug/kg TS

(*) : Method not accredited by Swedac

PFOA = Perfluorooctane acid PFOS = Perfluorooctane sulfonate

The stated uncertainty of measurement is calculated using a coverage k = 2. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

(continued)

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Report No. 19497810
Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to
Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-12
Time of Arrival : 0900
Temperature at arrival :

Sample name : (13139734-023) MM O15 O35 (0-50) O43 (0-50)
Sampling date : 2019-10-30
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P92147
Label-id @mis : 87968149

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
DIN 38414-14 mod.	PFOS, branched	0.11	± 0.10	ug/kg TS
Calculated	PFOS, total	0.37	± 0.11	ug/kg TS
DIN 38414-14 mod. (*)	Perfluorodecanoic sulpho. PFDS	< 0.1		ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-EtFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorocta.sulp.amid,PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Linköping 2019-11-19

The report has been reviewed and approved by

Responsible reviewer

Control numbers 8987 0457 0166 2811

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Box 1083, 581 10 Linköping, Sweden

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Page 1 (2)

Report No. 19497811

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-12
Time of Arrival : 0900
Temperature at arrival :

Sample name : (13139734-024) MM O16 O36 (0-50) O37 (0-50) O38 (
Sampling date : 2019-10-30
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P92147
Label-id @mis : 87967733

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
SS-EN 12880	Dry substance	43.4	± 4.34	%
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	0.17	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, linear	0.34	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOA, total	0.34	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorononanoic acid, PFNA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic acid, PFDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorundec. acid, PFUnDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordodec. acid, PFDoDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluortridec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluortetradec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorhexadec. acid, PFHxDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluoroctadec. acid, PFODA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	0.27	± 0.10	ug/kg TS

(*) : Method not accredited by Swedac

PFOA = Perfluorooctane acid PFOS = Perfluorooctane sulfonate

The stated uncertainty of measurement is calculated using a coverage k = 2. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

(continued)

Results refer only to the submitted sample. Unless the laboratory has written otherwise, the report may only be reproduced in its entirety.


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REPORT

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Page 2 (2)

Report No. 19497811
Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to
Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-12
Time of Arrival : 0900
Temperature at arrival :

Sample name : (13139734-024) MM O16 O36 (0-50) O37 (0-50) O38 (
Sampling date : 2019-10-30
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P92147
Label-id @mis : 87967733

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
DIN 38414-14 mod.	PFOS, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOS, total	0.27	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluorodecanoic sulpho. PFDS	< 0.1		ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-EtFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorocta.sulp.amid,PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Linköping 2019-11-19

The report has been reviewed and approved by

Responsible reviewer

Control numbers 8880 0053 0162 2916

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SYNLAB Analytics & Services Sweden AB

Box 1083, 581 10 Linköping, Sweden

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REPORT

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Page 1 (2)

Report No. 19497812

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-12
Time of Arrival : 0900
Temperature at arrival :

Sample name : (13139734-025) MM O17 O39 (0-50) O40 (0-50) O41 (
Sampling date : 2019-10-30
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P92147
Label-id @mis : 87967961

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
SS-EN 12880	Dry substance	48.8	± 4.88	%
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	0.14	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, linear	0.35	± 0.11	ug/kg TS
DIN 38414-14 mod.	PFOA, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOA, total	0.35	± 0.11	ug/kg TS
DIN 38414-14 mod.	Perfluorononanoic acid, PFNA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic acid, PFDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorundec. acid, PFUnDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordodec. acid, PFDoDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluortridec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluortetradec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorhexadec. acid, PFHxDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluoroctadec. acid, PFODA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBS	0.12	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	0.12	± 0.10	ug/kg TS

(*) : Method not accredited by Swedac

PFOA = Perfluorooctane acid PFOS = Perfluorooctane sulfonate

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

(continued)

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Report No. 19497812
Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to
Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-12
Time of Arrival : 0900
Temperature at arrival :

Sample name : (13139734-025) MM O17 O39 (0-50) O40 (0-50) O41 (
Sampling date : 2019-10-30
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P92147
Label-id @mis : 87967961

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
DIN 38414-14 mod.	PFOS, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOS, total	0.12	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluorodecanoic sulpho. PFDS	< 0.1		ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-EtFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorocta.sulp.amid,PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Linköping 2019-11-19

The report has been reviewed and approved by

Responsible reviewer

Control numbers 8786 0959 0166 2115

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Box 1083, 581 10 Linköping, Sweden

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REPORT

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Page 1 (2)

Report No. 19497813

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-12
Time of Arrival : 0900
Temperature at arrival :

Sample name : (13139734-026) MM O18 O42 (0-50)
Sampling date : 2019-10-30
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P92147
Label-id @mis : 87967078

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
SS-EN 12880	Dry substance	87.8	± 8.78	%
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, linear	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOA, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorononanoic acid, PFNA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic acid, PFDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorundec. acid, PFUnDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordodec. acid, PFDoDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluortridec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluortetradec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorhexadec. acid, PFHxDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluoroctadec. acid, PFODA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	0.28	± 0.10	ug/kg TS

(*) : Method not accredited by Swedac

PFOA = Perfluorooctane acid PFOS = Perfluorooctane sulfonate

The stated uncertainty of measurement is calculated using a coverage k = 2. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

(continued)

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Report No. 19497813
Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to
Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-12
Time of Arrival : 0900
Temperature at arrival :

Sample name : (13139734-026) MM O18 O42 (0-50)
Sampling date : 2019-10-30
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P92147
Label-id @mis : 87967078

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
DIN 38414-14 mod.	PFOS, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOS, total	0.28	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluorodecanoic sulpho. PFDS	< 0.1		ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-EtFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorocta.sulp.amid,PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Linköping 2019-11-19

The report has been reviewed and approved by

Responsible reviewer

Control numbers 8682 0256 0165 2011

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Page 1 (2)

Report No. 19497814

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-12
Time of Arrival : 0900
Temperature at arrival :

Sample name : (13139734-027) MM O19 O44 (0-50) O45 (0-50)
Sampling date : 2019-10-30
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P92147
Label-id @mis : 87968184

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
SS-EN 12880	Dry substance	83.9	± 8.39	%
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, linear	0.27	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOA, total	0.27	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorononanoic acid, PFNA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic acid, PFDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorundec. acid, PFUnDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordodec. acid, PFDoDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluortridec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluortetradecacid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorhexadec. acid, PFHxDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluoroctadec. acid, PFODA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	0.14	± 0.10	ug/kg TS

(*) : Method not accredited by Swedac

PFOA = Perfluorooctane acid PFOS = Perfluorooctane sulfonate

The stated uncertainty of measurement is calculated using a coverage k = 2. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

(continued)

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Report No. 19497814
Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to
Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-12
Time of Arrival : 0900
Temperature at arrival :

Sample name : (13139734-027) MM O19 O44 (0-50) O45 (0-50)
Sampling date : 2019-10-30
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P92147
Label-id @mis : 87968184

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
DIN 38414-14 mod.	PFOS, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOS, total	0.14	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluorodecanoic sulpho. PFDS	< 0.1		ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-EtFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorocta.sulp.amid,PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Linköping 2019-11-19

The report has been reviewed and approved by

Responsible reviewer

Control numbers 8582 0851 0169 2512

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Box 1083, 581 10 Linköping, Sweden

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Page 1 (2)

Report No. 19497815

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-12
Time of Arrival : 0900
Temperature at arrival :

Sample name : (13139734-028) MM O20 O46 (0-50) O47 (0-50) O48 (
Sampling date : 2019-10-30
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P92147
Label-id @mis : 87968047

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
SS-EN 12880	Dry substance	87.9	± 8.79	%
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, linear	0.12	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOA, total	0.12	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorononanoic acid, PFNA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic acid, PFDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorundec. acid, PFUnDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordodec. acid, PFDoDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluortridec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluortetradecacid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorhexadec. acid, PFHxDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluoroctadec. acid, PFODA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	< 0.1	± 0.10	ug/kg TS

(*) : Method not accredited by Swedac

PFOA = Perfluorooctane acid PFOS = Perfluorooctane sulfonate

The stated uncertainty of measurement is calculated using a coverage k = 2. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

(continued)

Results refer only to the submitted sample. Unless the laboratory has written otherwise, the report may only be reproduced in its entirety.


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Page 2 (2)

Report No. 19497815
Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to
Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-12
Time of Arrival : 0900
Temperature at arrival :

Sample name : (13139734-028) MM O20 O46 (0-50) O47 (0-50) O48 ()
Sampling date : 2019-10-30
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P92147
Label-id @mis : 87968047

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
DIN 38414-14 mod.	PFOS, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOS, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluorodecanoic sulpho. PFDS	< 0.1		ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-EtFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorocta.sulp.amid,PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Linköping 2019-11-19

The report has been reviewed and approved by

Responsible reviewer

Control numbers 8482 0555 0166 2416

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SYNLAB Analytics & Services Sweden AB

Box 1083, 581 10 Linköping, Sweden

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REPORT

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Page 1 (2)

Report No. 19497816

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-12
Time of Arrival : 0900
Temperature at arrival :

Sample name : (13139734-029) MM O21 O49 (0-50) O50 (0-50)
Sampling date : 2019-10-30
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P92147
Label-id @mis : 87968171

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
SS-EN 12880	Dry substance	89.7	± 8.97	%
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, linear	0.11	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOA, total	0.11	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorononanoic acid, PFNA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic acid, PFDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorundec. acid, PFUnDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordodec. acid, PFDoDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluortridec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluortetradec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorhexadec. acid, PFHxDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluoroctadec. acid, PFODA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	< 0.1	± 0.10	ug/kg TS

(*) : Method not accredited by Swedac

PFOA = Perfluorooctane acid PFOS = Perfluorooctane sulfonate

The stated uncertainty of measurement is calculated using a coverage k = 2. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

(continued)

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Report No. 19497816

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-12
Time of Arrival : 0900
Temperature at arrival :

Sample name : (13139734-029) MM O21 O49 (0-50) O50 (0-50)
Sampling date : 2019-10-30
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P92147
Label-id @mis : 87968171

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
DIN 38414-14 mod.	PFOS, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOS, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluorodecanoic sulpho. PFDS	< 0.1		ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-EtFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluoroocta.sulp.amid,PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Linköping 2019-11-19

The report has been reviewed and approved by

Responsible reviewer

Control numbers 8382 0659 0164 2710

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Box 1083, 581 10 Linköping, Sweden

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Provning
ISO/IEC 17025


REPORT

issued by an Accredited Laboratory

Page 1 (2)

Report No. 19497817

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-12
Time of Arrival : 0900
Temperature at arrival :

Sample name : (13139734-030) MM O22 O51 (0-50) O53 (0-50) O54 (
Sampling date : 2019-10-30
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P92147
Label-id @mis : 87968064

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
SS-EN 12880	Dry substance	81.0	± 8.10	%
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, linear	0.15	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOA, total	0.15	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorononanoic acid, PFNA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic acid, PFDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorundec. acid, PFUnDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordodec. acid, PFDoDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluortridec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluortetradecacid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorhexadec. acid, PFHxDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluoroctadec. acid, PFODA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	0.12	± 0.10	ug/kg TS

(*) :Method not accredited by Swedac

PFOA = Perfluorooctane acid PFOS = Perfluorooctane sulfonate

The stated uncertainty of measurement is calculated using a coverage k = 2. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

(continued)

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SYNLAB Analytics & Services Sweden AB

Box 1083, 581 10 Linköping, Sweden
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Page 2 (2)

Report No. 19497817
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SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to
Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-12
Time of Arrival : 0900
Temperature at arrival :

Sample name : (13139734-030) MM O22 O51 (0-50) O53 (0-50) O54 (
Sampling date : 2019-10-30
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P92147
Label-id @mis : 87968064

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
DIN 38414-14 mod.	PFOS, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOS, total	0.12	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluorodecanoic sulpho. PFDS	< 0.1		ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-EtFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorocta.sulp.amid,PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Linköping 2019-11-18

The report has been reviewed and approved by

Responsible reviewer

Control numbers 8288 0855 0169 2516

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SYNLAB Analytics & Services Sweden AB

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REPORT

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Page 1 (2)

Report No. 19497818

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-12
Time of Arrival : 0900
Temperature at arrival :

Sample name : (13139734-031) MM O23 O52 (0-50) O65 (0-50)
Sampling date : 2019-10-30
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P92147
Label-id @mis : 87968278

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
SS-EN 12880	Dry substance	84.1	± 8.41	%
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, linear	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOA, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorononanoic acid, PFNA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic acid, PFDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorundec. acid, PFUnDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordodec. acid, PFDoDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluortridec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluortetradecacid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorhexadec. acid, PFHxDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluoroctadec. acid, PFODA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	< 0.1	± 0.10	ug/kg TS

(*) : Method not accredited by Swedac

PFOA = Perfluorooctane acid PFOS = Perfluorooctane sulfonate

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

(continued)

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Page 2 (2)

Report No. 19497818
Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to
Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-12
Time of Arrival : 0900
Temperature at arrival :

Sample name : (13139734-031) MM O23 O52 (0-50) O65 (0-50)
Sampling date : 2019-10-30
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P92147
Label-id @mis : 87968278

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
DIN 38414-14 mod.	PFOS, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOS, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluorodecanoic sulpho. PFDS	< 0.1		ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-EtFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorocta.sulp.amid,PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Linköping 2019-11-19

The report has been reviewed and approved by

Responsible reviewer

Control numbers 8188 0558 0163 2918

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REPORT

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Page 1 (2)

Report No. 19497819

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-12
Time of Arrival : 0900
Temperature at arrival :

Sample name : (13139734-032) MM O24 O55 (0-50) O59 (0-50)
Sampling date : 2019-10-30
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P92147
Label-id @mis : 87968289

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
SS-EN 12880	Dry substance	73.9	± 7.39	%
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, linear	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOA, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorononanoic acid, PFNA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic acid, PFDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorundec. acid, PFUnDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordodec. acid, PFDoDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluortridec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluortetradec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorhexadec. acid, PFHxDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluoroctadec. acid, PFODA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	< 0.1	± 0.10	ug/kg TS

(*) : Method not accredited by Swedac

PFOA = Perfluorooctane acid PFOS = Perfluorooctane sulfonate

The stated uncertainty of measurement is calculated using a coverage k = 2. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

(continued)

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SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to
Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-12
Time of Arrival : 0900
Temperature at arrival :

Sample name : (13139734-032) MM O24 O55 (0-50) O59 (0-50)
Sampling date : 2019-10-30
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P92147
Label-id @mis : 87968289

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
DIN 38414-14 mod.	PFOS, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOS, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluorodecanoic sulpho. PFDS	< 0.1		ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-EtFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorocta.sulp.amid,PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Linköping 2019-11-18

The report has been reviewed and approved by

Responsible reviewer

Control numbers 8088 0358 0166 2514

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SYNLAB Analytics & Services Sweden AB

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REPORT

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Page 1 (2)

Report No. 19497820

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-12
Time of Arrival : 0900
Temperature at arrival :

Sample name : (13139734-033) MM O25 O56 (0-50) O57 (0-50) O58 (
Sampling date : 2019-10-30
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P92147
Label-id @mis : 87968104

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
SS-EN 12880	Dry substance	83.8	± 8.38	%
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, linear	0.18	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOA, total	0.18	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorononanoic acid, PFNA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic acid, PFDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorundec. acid, PFUnDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordodec. acid, PFDoDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluortridec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluortetradecacid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorhexadec. acid, PFHxDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluoroctadec. acid, PFODA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	0.13	± 0.10	ug/kg TS

(*) : Method not accredited by Swedac

PFOA = Perfluorooctane acid PFOS = Perfluorooctane sulfonate

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

(continued)

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SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to
Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-12
Time of Arrival : 0900
Temperature at arrival :

Sample name : (13139734-033) MM O25 O56 (0-50) O57 (0-50) O58 (
Sampling date : 2019-10-30
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P92147
Label-id @mis : 87968104

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
DIN 38414-14 mod.	PFOS, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOS, total	0.13	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluorodecanoic sulpho. PFDS	< 0.1		ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-EtFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorocta.sulp.amid,PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Linköping 2019-11-19

The report has been reviewed and approved by

Responsible reviewer

Control numbers 7983 0955 1602 2013

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Page 1 (2)

Report No. 19497821

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-12
Time of Arrival : 0900
Temperature at arrival :

Sample name : (13139734-034) MM O26 O60 (0-50) O61 (0-50) O62 (
Sampling date : 2019-10-30
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P92147
Label-id @mis : 87968302

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
SS-EN 12880	Dry substance	55.7	± 5.57	%
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	0.40	± 0.12	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	0.15	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	0.15	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, linear	1.4	± 0.42	ug/kg TS
DIN 38414-14 mod.	PFOA, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOA, total	1.4	± 0.42	ug/kg TS
DIN 38414-14 mod.	Perfluorononanoic acid, PFNA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic acid, PFDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorundec. acid, PFUnDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordodec. acid, PFDoDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluortridec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluortetradecacid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorhexadec. acid, PFHxDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluoroctadec. acid, PFODA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBS	0.19	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	0.52	± 0.16	ug/kg TS

(*) : Method not accredited by Swedac

PFOA = Perfluorooctane acid PFOS = Perfluorooctane sulfonate

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

(continued)

Results refer only to the submitted sample. Unless the laboratory has written otherwise, the report may only be reproduced in its entirety.


SYNLAB Analytics & Services Sweden AB

Box 1083, 581 10 Linköping, Sweden
Tel: + 46 13 254 900 - Fax: + 46 13 121 728
Registered 556152-0916 Registered office: Linköping, Sweden



Akred. nr 1006
Provning
ISO/IEC 17025



REPORT

issued by an Accredited Laboratory

Page 2 (2)

Report No. 19497821
Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to
Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-12
Time of Arrival : 0900
Temperature at arrival :

Sample name : (13139734-034) MM O26 O60 (0-50) O61 (0-50) O62 (
Sampling date : 2019-10-30
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P92147
Label-id @mis : 87968302

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
DIN 38414-14 mod.	PFOS, branched	0.25	± 0.10	ug/kg TS
Calculated	PFOS, total	0.77	± 0.23	ug/kg TS
DIN 38414-14 mod. (*)	Perfluorodecanoic sulpho. PFDS	< 0.1		ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-EtFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorocta.sulp.amid,PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Linköping 2019-11-19

The report has been reviewed and approved by

Responsible reviewer

Control numbers 7887 0859 1606 2412

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SYNLAB Analytics & Services Sweden AB

Box 1083, 581 10 Linköping, Sweden

Tel: + 46 13 254 900 - Fax: + 46 13 121 728

Registered 556152-0916 Registered office: Linköping, Sweden



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REPORT

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Page 1 (2)

Report No. 19497822

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to

Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-12
Time of Arrival : 0900
Temperature at arrival :

Sample name : (13139734-035) MM O27 O63 (0-50) O64 (0-50)
Sampling date : 2019-10-30
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P92147
Label-id @mis : 87968319

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
SS-EN 12880	Dry substance	34.6	± 3.46	%
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBA	0.18	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOA, linear	0.48	± 0.14	ug/kg TS
DIN 38414-14 mod.	PFOA, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOA, total	0.48	± 0.14	ug/kg TS
DIN 38414-14 mod.	Perfluorononanoic acid, PFNA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoic acid, PFDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorundec. acid, PFUnDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordodec. acid, PFDoDA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluortridec. acid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluortetradecacid, PFTeDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluorhexadec. acid, PFHxDA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	Perfluoroctadec. acid, PFODA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorbutanoic acid, PFBS	< 0.3	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoic acid, PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoic acid, PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoic acid, PFHpS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	< 0.1	± 0.10	ug/kg TS

(*) : Method not accredited by Swedac

PFOA = Perfluorooctane acid PFOS = Perfluorooctane sulfonate

The stated uncertainty of measurement is calculated using a coverage k = 2. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

(continued)

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Registered 556152-0916 Registered office: Linköping, Sweden



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REPORT

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Page 2 (2)

Report No. 19497822
Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
3194AG ROTTERDAM, NL

Applies to
Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival : 2019-11-12
Time of Arrival : 0900
Temperature at arrival :

Sample name : (13139734-035) MM O27 O63 (0-50) O64 (0-50)
Sampling date : 2019-10-30
Sampling time :
Sampler : -
Depth of sampling : -
Invoice reference : P92147
Label-id @mis : 87968319

Results

Test method	Analysis / Investigation of	Result	Uncertainty	Unit
DIN 38414-14 mod.	PFOS, branched	< 0.1	± 0.10	ug/kg TS
Calculated	PFOS, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Perfluorodecanoic sulpho. PFDS	< 0.1		ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (4:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (6:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Fluortelomersulfo. (8:2 FTS)	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	Fluortelomersulf. (10:2 FTS)	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	N-EtFOSAA	< 0.1		ug/kg TS
DIN 38414-14 mod.	Perfluorocta.sulp.amid, PFOSA	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod. (*)	N-MeFOSA	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	8:2 diPAP	< 0.1		ug/kg TS
DIN 38414-14 mod. (*)	GenX (HFPO-DA/FRD-903)	< 0.1		ug/kg TS

(*) :Method not accredited by Swedac

The stated uncertainty of measurement is calculated using a coverage $k = 2$. Measurement uncertainty for accredited microbiological analyses are available from the laboratory upon request.

Comment

Increased reporting limit for PFBS due to disturbances from other substances in the sample.
This also implies that uncertainty is higher than indicated above.

Linköping 2019-11-19

The report has been reviewed and approved by

Responsible reviewer

Control numbers 7780 0759 1605 2219

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BIJLAGE 5
FOTO'S LOCATIE



Omgeving boring W205



Omgeving boring W195



Omgeving boring W185



Omgeving boring W175



Omgeving boring W165



Omgeving boring W135



Omgeving boring W145



Omgeving boring W135



Omgeving boring W125



Omgeving boring W120



Omgeving boring W105



Omgeving boring W95



Omgeving boring W85



Omgeving boring W75



Omgeving boring W215



Omgeving boring W227



Omgeving boring W235



Omgeving boring W245



Omgeving boring W68



Omgeving boring W55



Omgeving boring W255



Omgeving boring W266



Omgeving boring W275



Omgeving boring W285



Omgeving boring W296



Omgeving boring W305