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uw ref: - onze ref: 0302WAL/19/R Panheel, 26 november 2019

Betreft : Aanvullend (water)bodemonderzoek Eckeltsebeek te Bergen
Behandeld door : Dhr. drs. M.A.J. de Vaan

Geachte heer van Dijck,

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.
- Monstername 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 m^2 en 61.108 m^2 , diepte max. 0,5 m.
- 27 boringen tot 0,5 m-mv respectievelijk 45 boringen tot 0,5 m-mv.
- Monstername 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 dhr. M. Linssen, gecertificeerd veldwerker van MAH BV en door dhr. R. Rietman en B. Snepvangers 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 bodemfunctieklasse, zie tabel 4 Behoudens voor bodemfunctieklasse 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 grondwaterniveau': tot ten hoogste 1 meter onder het maaiveld.
(2) Voor gebieden met een hoge grondwaterstand geldt in plaats van 'onder grondwaterniveau': 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. PFAShoudende 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 grondwaterniveau(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 achtergrond-waarde, ten hoogste 3,0	de gemeten achtergrond-waarde, ten hoogste 7,0	de gemeten achtergrondwaar-de, ten hoogste 3,0	de gemeten achtergrondwaar-de, 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 grondwaterniveau':
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 samen-stelling
	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

d detectielimiet

Vervolg Tabel 3: Samenvatting analyseresultaten

Meng-monster	Samenstelling analyse(meng)monster Boornummer(s) en bodemtraject in cm-wbo	Toetsing Tijdelijk handelingskader	Globale samen-stelling
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 Boornummer(s) en bodemtraject in cm-wbo	Toetsing Tijdelijk handelingskader	Globale samen-stelling
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

d detectielimiet

Vervolg Tabel 3: Samenvatting analyseresultaten

Meng-monster	Samenstelling analyse(meng)monster Boornummer(s) en bodemtraject in cm-wbo	Toetsing Tijdelijk handelingskader	Globale samen-stelling
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

d detectielimiet

Vervolg Tabel 3: Samenvatting analyseresultaten

Meng-monster	Samenstelling analyse(meng)monster Boornummer(s) en bodemtraject in cm-wbo	Toetsing Tijdelijk handelingskader	Globale samen-stelling
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 Boornummer(s) en bodemtraject (m-mv)	Toetsing Tijdelijk handelingskader (µg/kg ds)
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

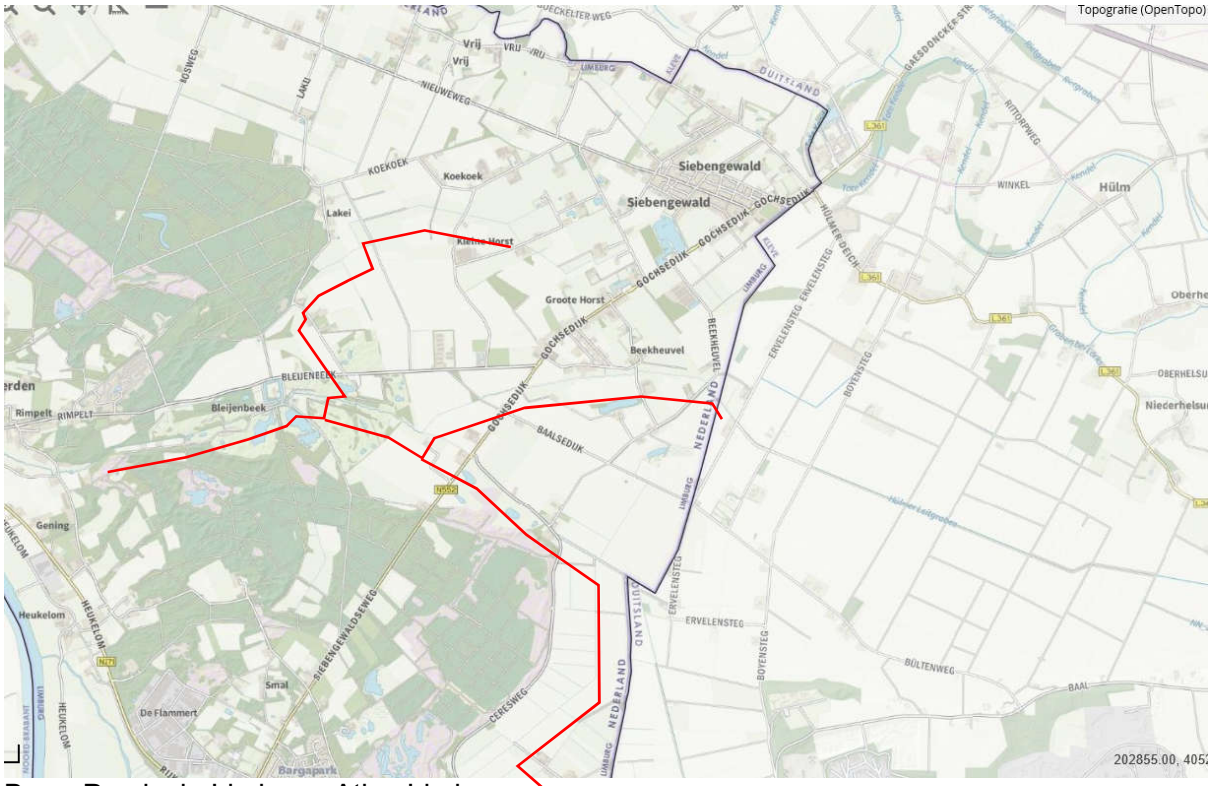
drs. M.A.J. de Vaan
Senior Projectleider

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

BIJLAGEN

BIJLAGE 1

TOPOGRAFISCHE KAART

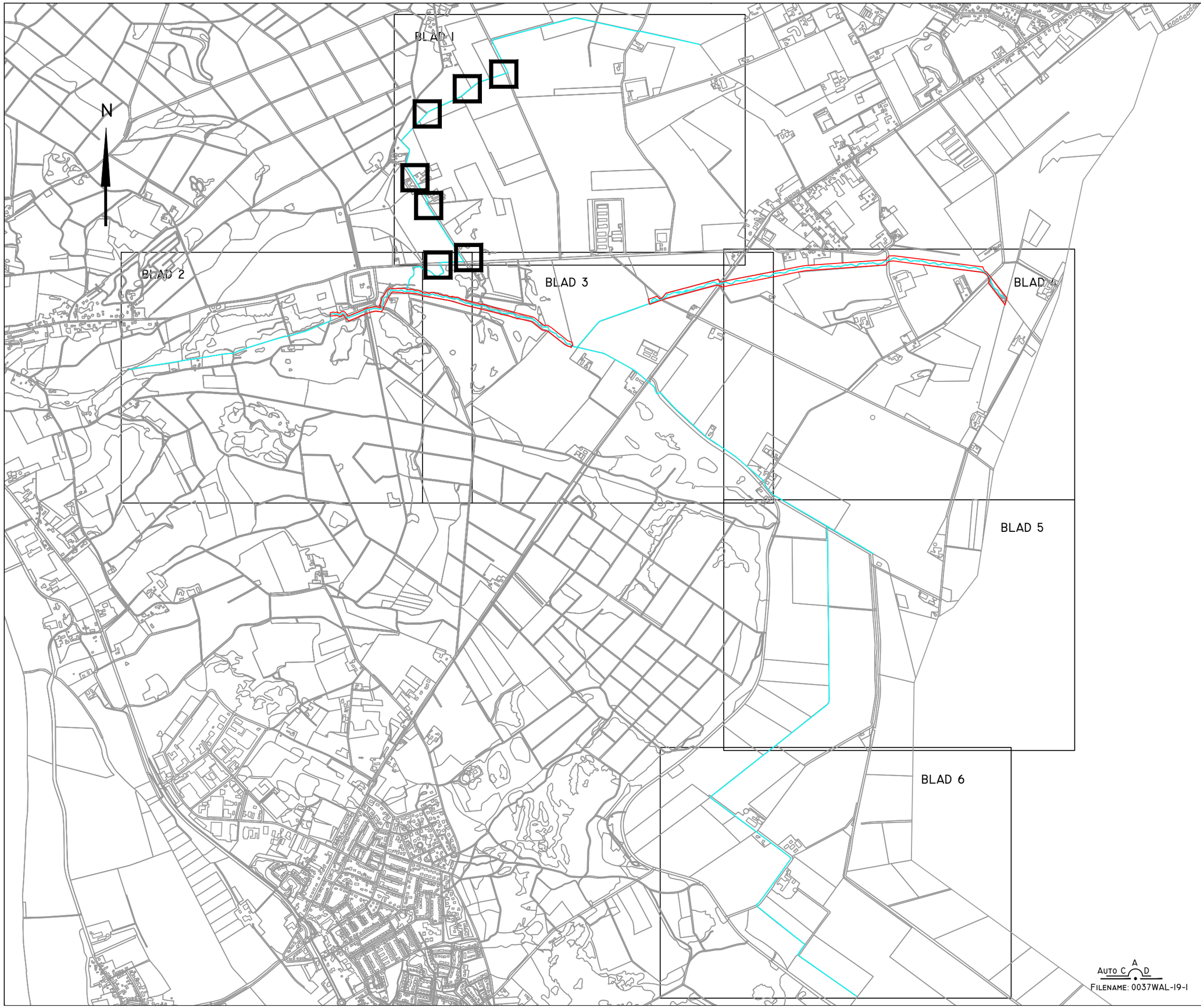


Bron: Provincie Limburg, Atlas Limburg

= globale ligging onderzoekslocatie

BIJLAGE 2

TEKENING MET BOORPUNTEN



BIJLAGE 2-1

SITUATIETEKENING WATERBODEM-ONDERZOEK

LEGENDA

- WATERGANG
- OEVERGEBIED
- LOCATIE DUIKER

PROJECT:
ECKELTSEBEEK TE BERGEN

OPDRACHTGEVER:
WATERSCHAP LIMBURG

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

MILIEUTECHNISCH ADVIESBUREAU HEEL BV

TEL. : 0475-573231
FAX : 0475-571509

SCHAAL 1:NVT /A3

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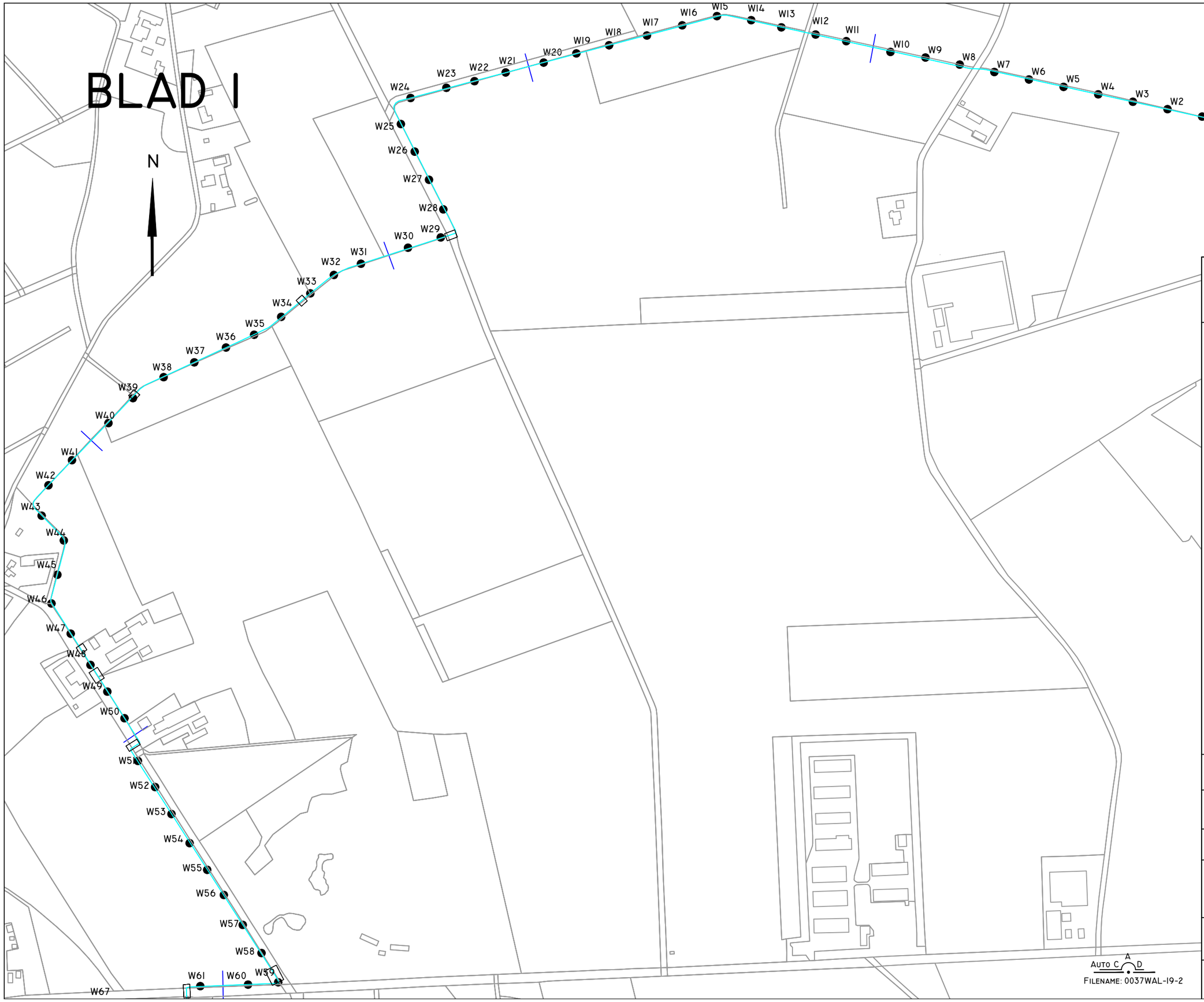


BIJLAGE 2-2

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

0 50 100 150 200 250

AAN DEZE TEKENING KUNNEN GEEN RECHTEN WORDEN ONTLEEND

PROJECT:
ECKELTSEBEEK TE BERGEN

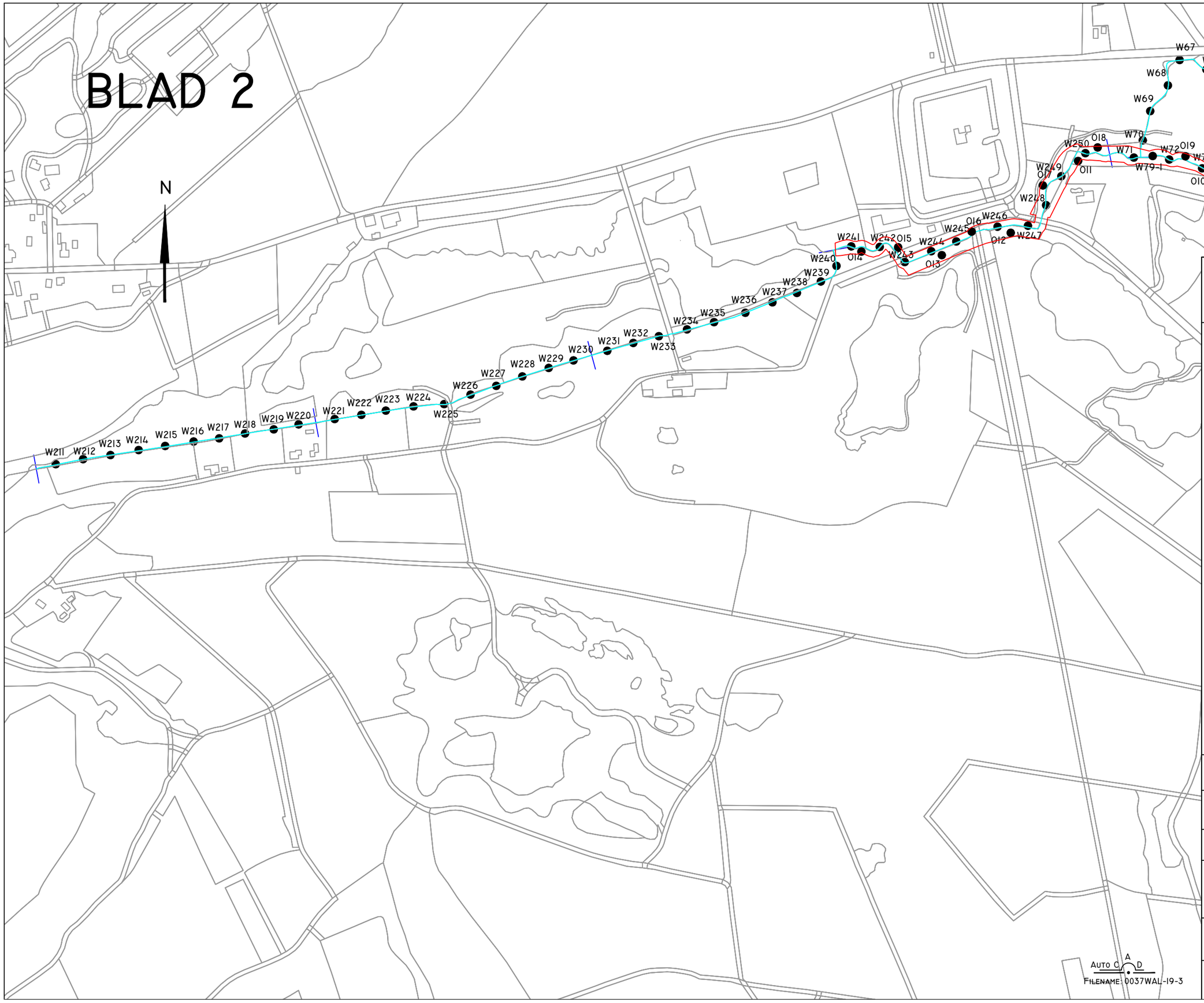
OPDRACHTGEVER:
WATERSCHAP LIMBURG

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

MILIEUTECHNISCH ADVIESBUREAU HEEL BV

TEL. : 0475-573231
FAX : 0475-571509

SCHAAL 1:5000/A3



BIJLAGE 2-3

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:

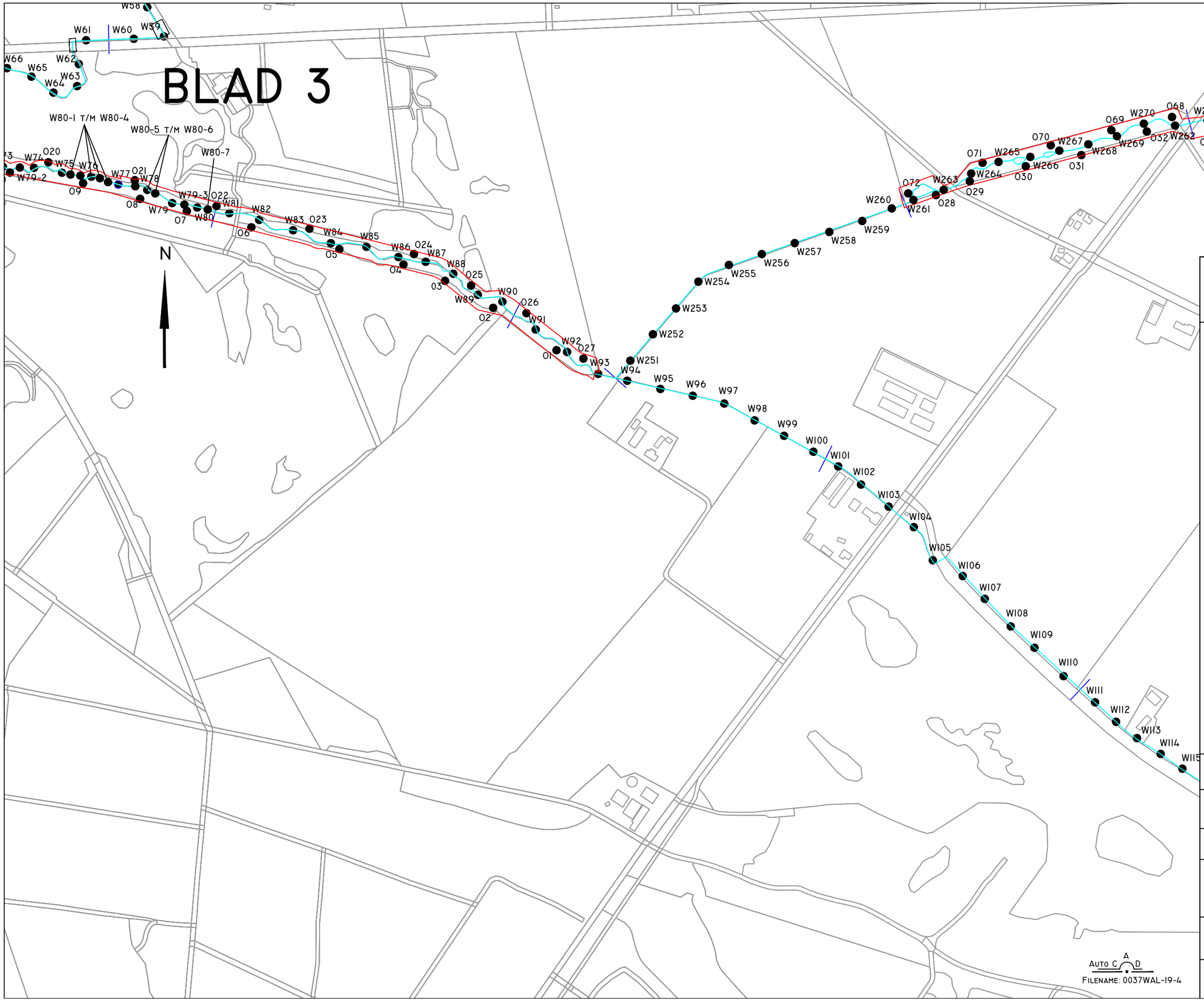
WATERSCHAP LIMBURG

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

MILIEUTECHNISCH ADVIESBUREAU HEEL BV

TEL. : 0475-573231
FAX : 0475-571509

SCHAAL 1:5000/A3



BIJLAGE 2-4

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

MILIEUTECHNISCH ADVIESBUREAU HEEL BV

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FAX : 0475-571509

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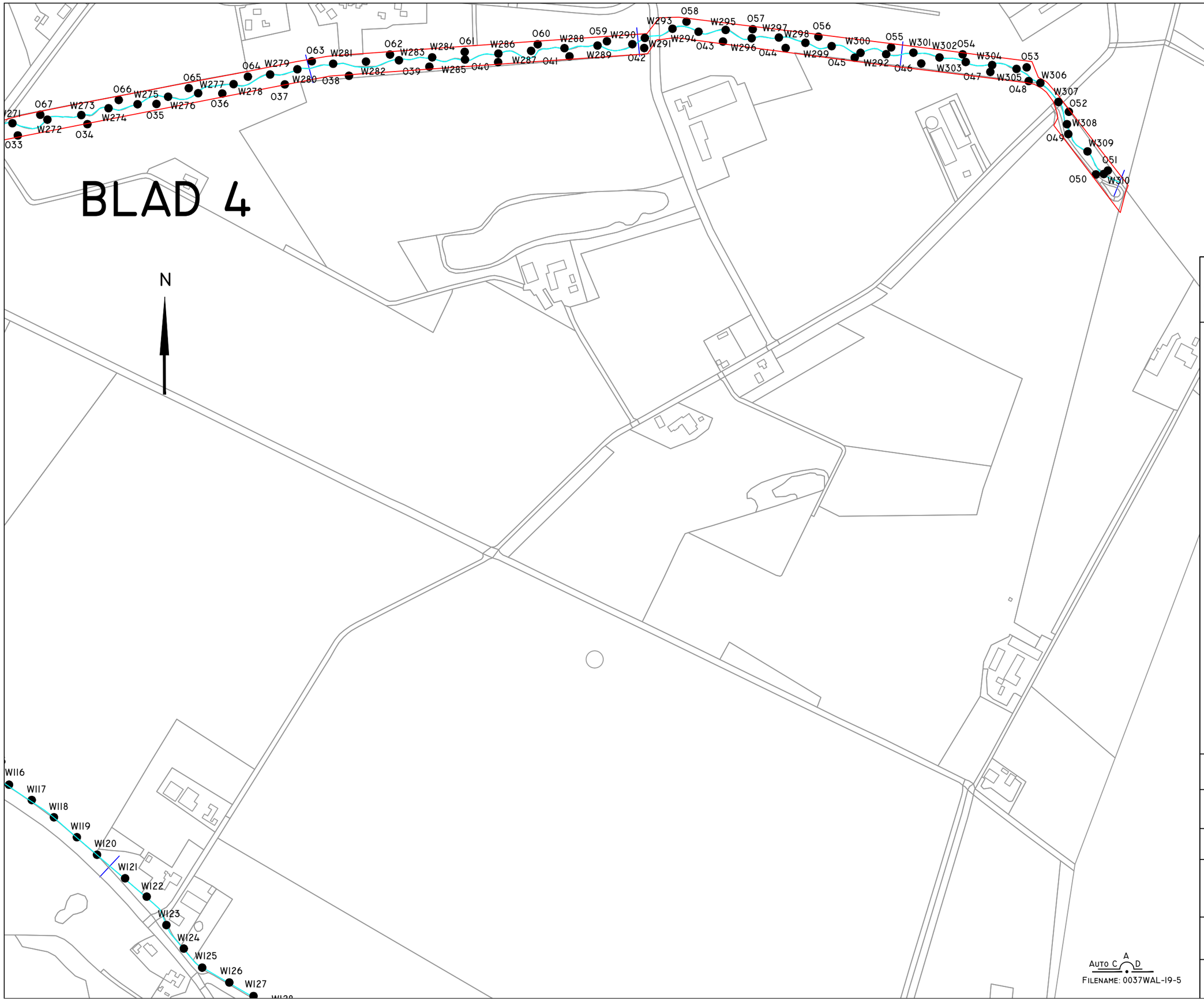

BIJLAGE 2-5

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

0 50 100 150 200 250

AAN DEZE TEKENING KUNNEN GEEN RECHTEN WORDEN ONTLEEND

PROJECT:

ECKELTSEBEEK TE BERGEN

OPDRACHTGEVER:

WATERSCHAP LIMBURG

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

MILIEUTECHNISCH ADVIESBUREAU HEEL BV

TEL. : 0475-573231
FAX : 0475-571509

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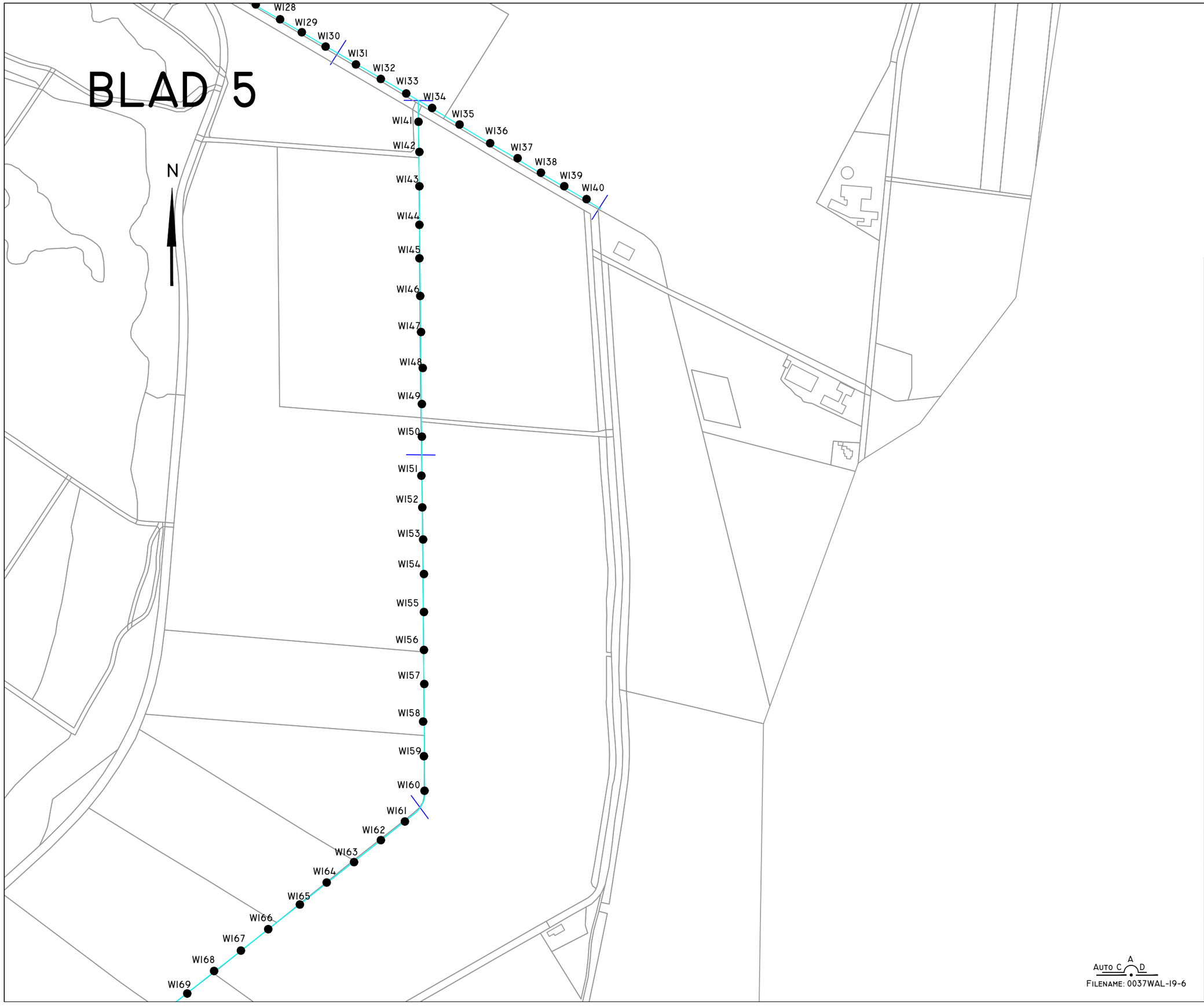

BIJLAGE 2-6

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

0 50 100 150 200 250

AAN DEZE TEKENING KUNNEN GEEN RECHTEN WORDEN ONTLEEND

PROJECT:
ECKELTSEBEEK TE BERGEN

OPDRACHTGEVER:
WATERSCHAP LIMBURG

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

MILIEUTECHNISCH ADVIESBUREAU HEEL BV

TEL. : 0475-573231
FAX : 0475-571509

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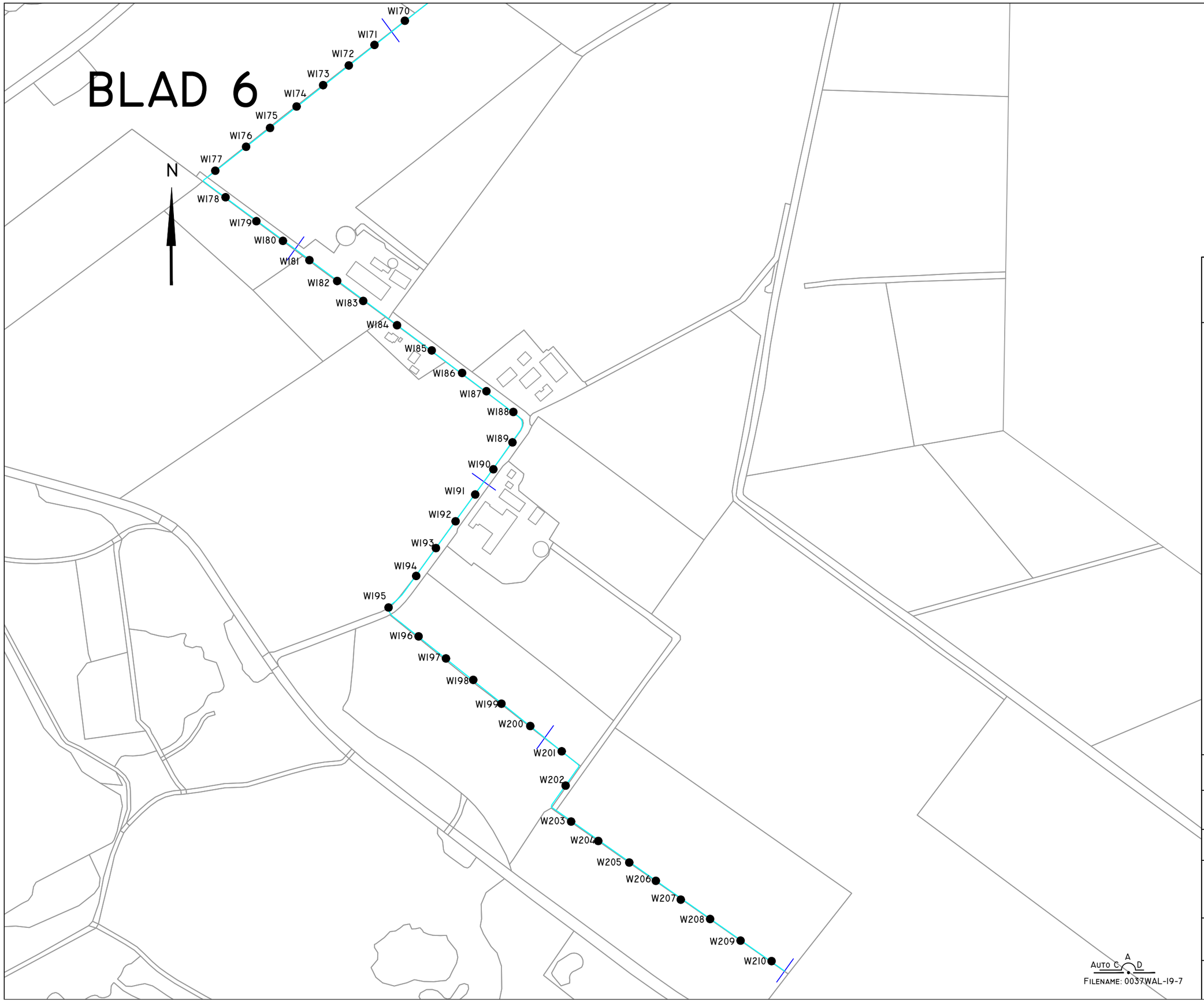

BIJLAGE 2-7

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

MILIEUTECHNISCH ADVIESBUREAU HEEL BV

TEL. : 0475-573231
FAX : 0475-571509

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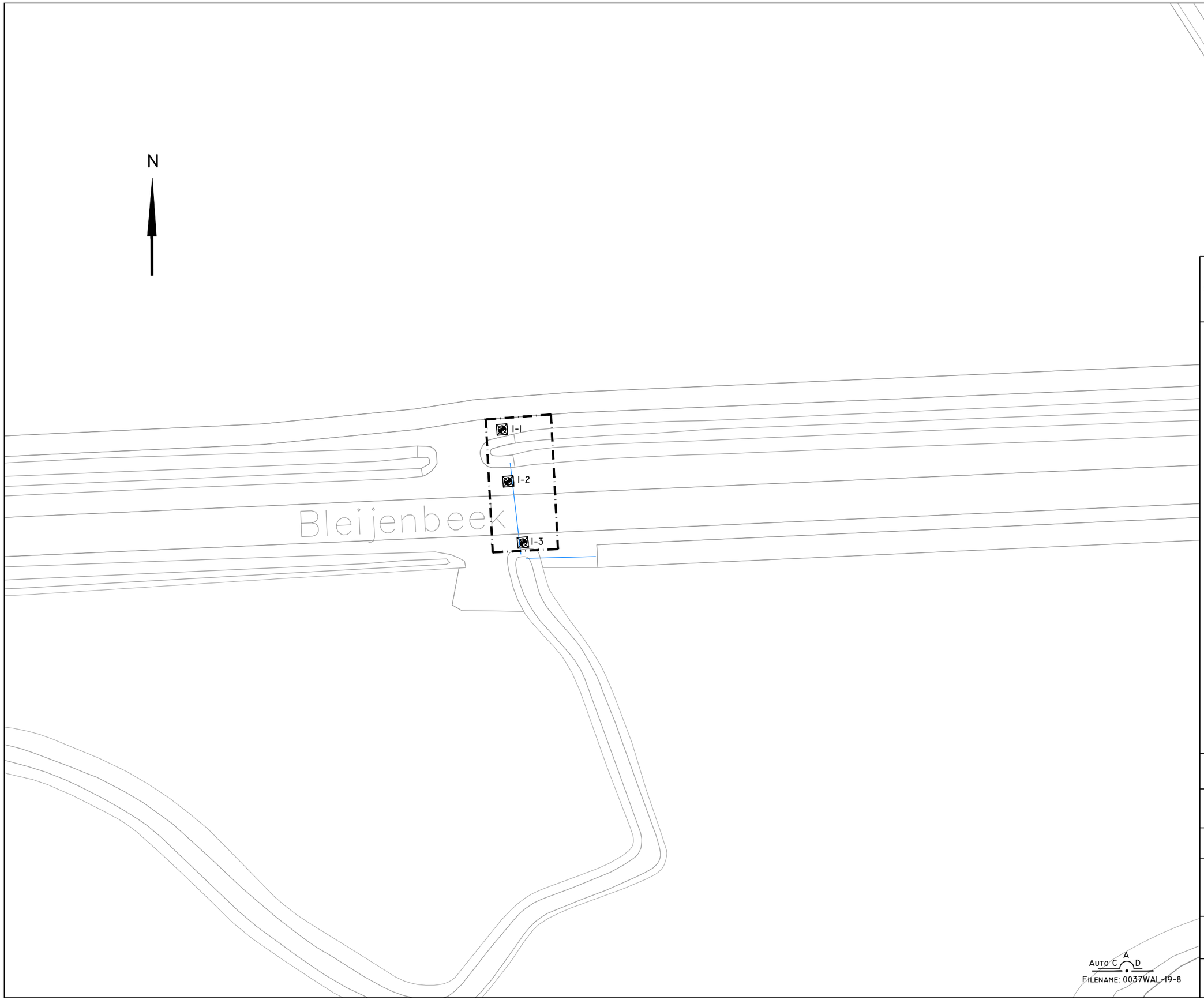

BIJLAGE 2-8

SITUATIETEKENING DUIKER I

LEGENDA

DUIKER

ONDERZOEKSLOCATIE

BORING

PROEFGAT

0 5 10 15 20 25

AAN DEZE TEKENING KUNNEN GEEN RECHTEN WORDEN ONTLEEND

PROJECT:

ECKELTSEBEEK TE BERGEN

OPDRACHTGEVER:

WATERSCHAP LIMBURG

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

MILIEUTECHNISCH ADVIESBUREAU HEEL BV

TEL. : 0475-573231
FAX : 0475-571509

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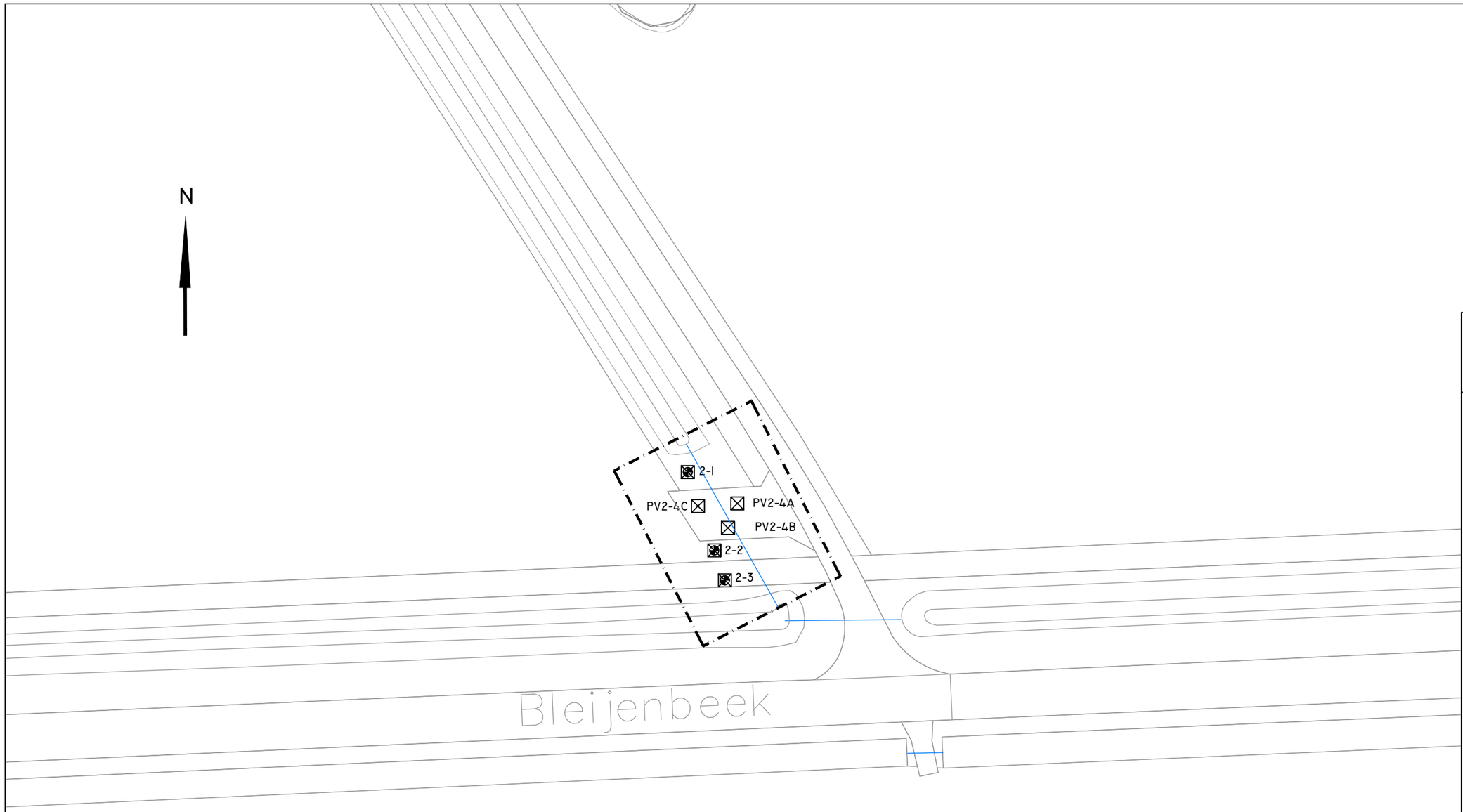

BIJLAGE 2-9

SITUATIETEKENING DUIKER 2

LEGENDA

DUIKER

ONDERZOEKSLOCATIE

BORING

PROEFGAT

0 5 10 15 20 25

AAN DEZE TEKENING KUNNEN GEEN RECHTEN WORDEN ONTLEEND

PROJECT:

ECKELTSEBEEK TE BERGEN

OPDRACHTGEVER:

WATERSCHAP LIMBURG

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

MILIEUTECHNISCH
ADVIESBUREAU HEEL BV

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FAX : 0475-571509

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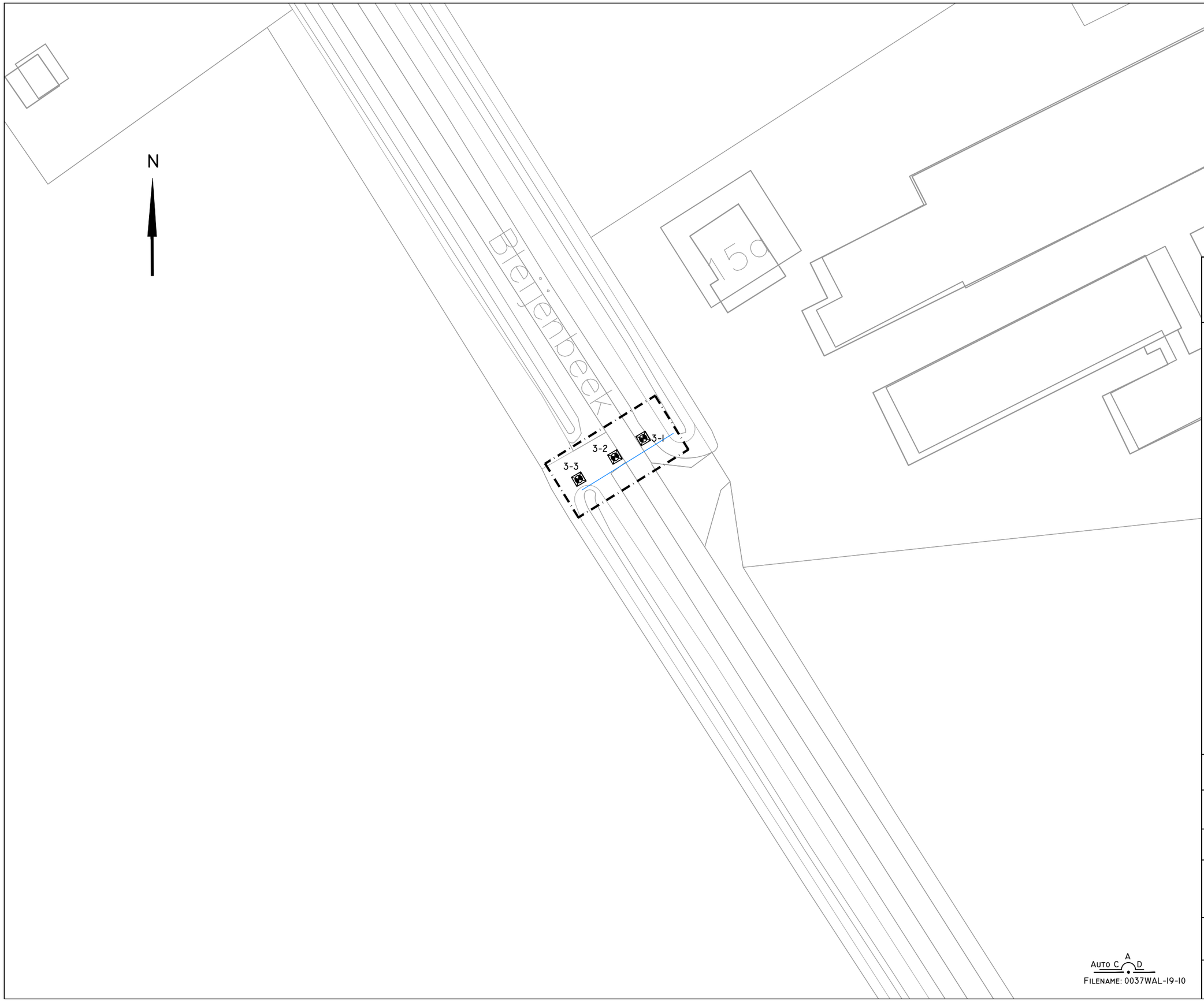

BIJLAGE 2-10
SITUATIETEKENING DUIKER 3

LEGENDA

- DUIKER
- ONDERZOEKSLOCATIE
- BORING
- PROEFGAT

0 5 10 15 20 25

PROJECT:
ECKELTSEBEEK TE BERGEN

OPDRACHTGEVER:
WATERSCHAP LIMBURG

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

MILIEUTECHNISCH
ADVIESBUREAU HEEL BV

TEL. : 0475-573231
FAX : 0475-571509

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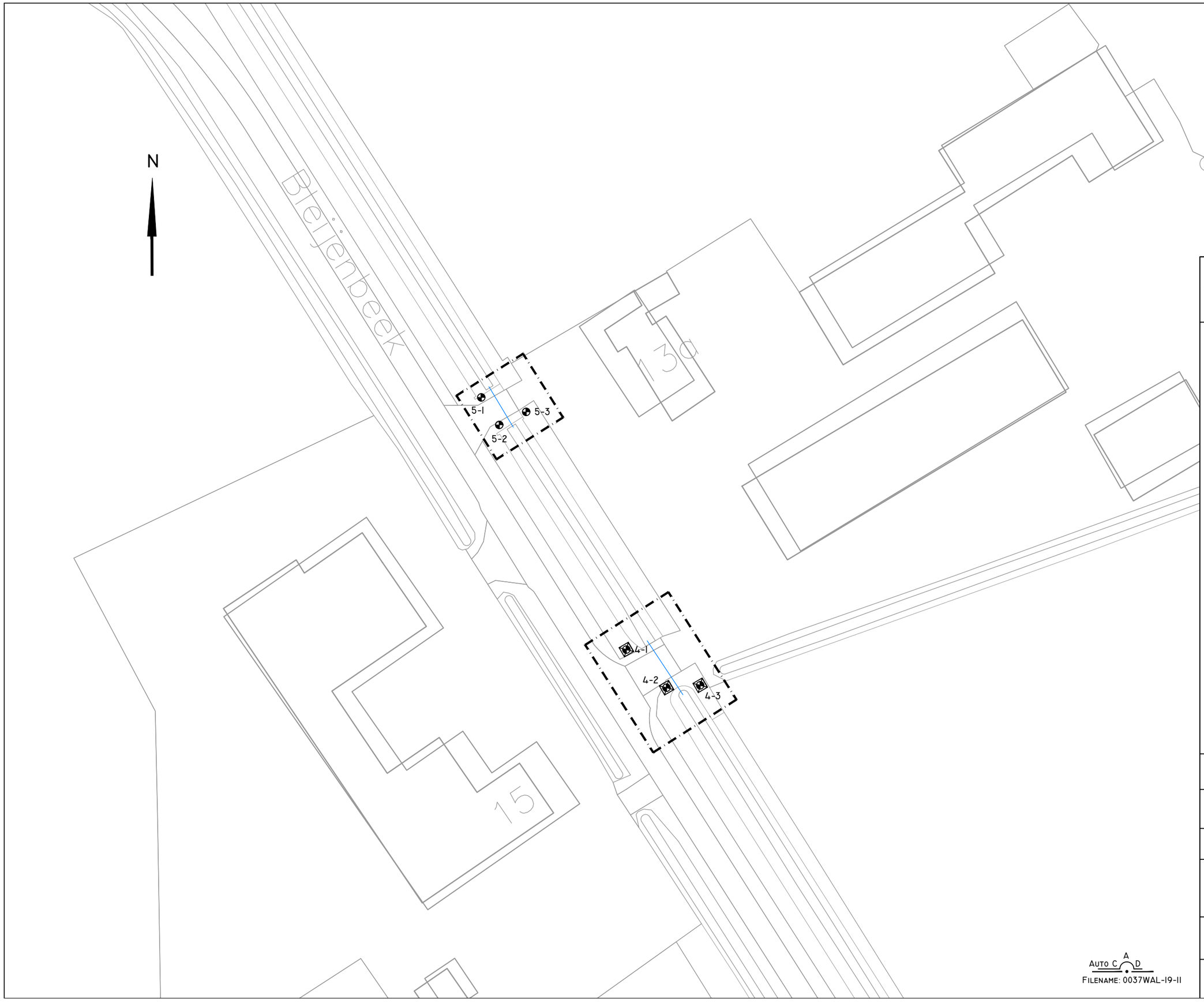

BIJLAGE 2-II

SITUATIETEKENING DUIKER 4 EN 5

LEGENDA

- DUIKER
- ONDERZOEKSLOCATIE
- BORING
- PROEFGAT

0 5 10 15 20 25

AAN DEZE TEKENING KUNNEN GEEN RECHTEN WORDEN ONTLEEND

PROJECT:

ECKELTSEBEEK TE BERGEN

OPDRACHTGEVER:

WATERSCHAP LIMBURG

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

MILIEUTECHNISCH
ADVIESBUREAU HEEL BV

TEL. : 0475-573231
FAX : 0475-571509

SCHAAL 1:500 /A3

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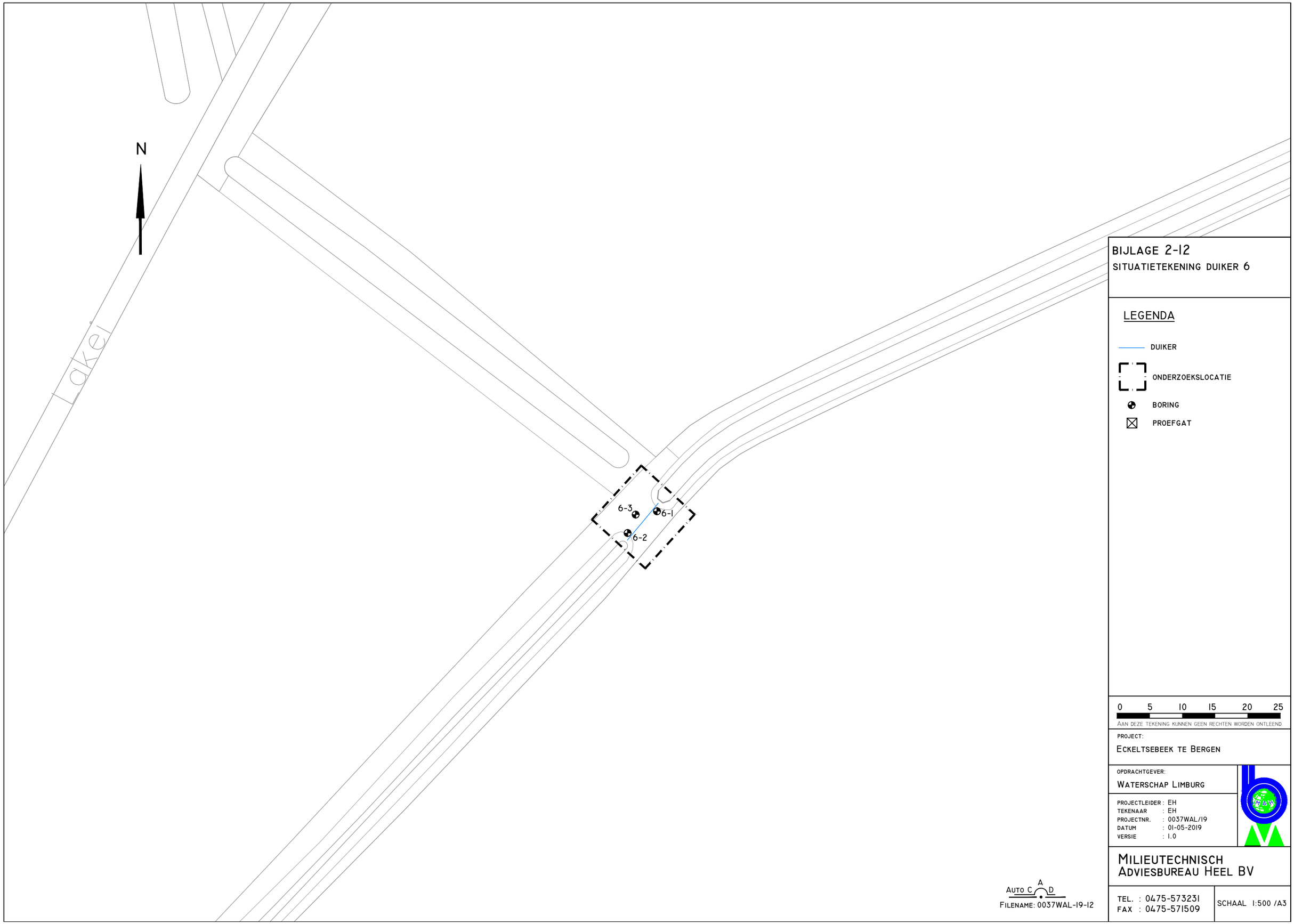

BIJLAGE 2-12

SITUATIETEKENING DUIKER 6

LEGENDA

DUIKER

ONDERZOEKSLOCATIE

BORING

PROEFGAT

0 5 10 15 20 25

PROJECT:

ECKELTSEBEEK TE BERGEN

OPDRACHTGEVER:

WATERSCHAP LIMBURG

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

MILIEUTECHNISCH
ADVIESBUREAU HEEL BV

TEL. : 0475-573231
FAX : 0475-571509

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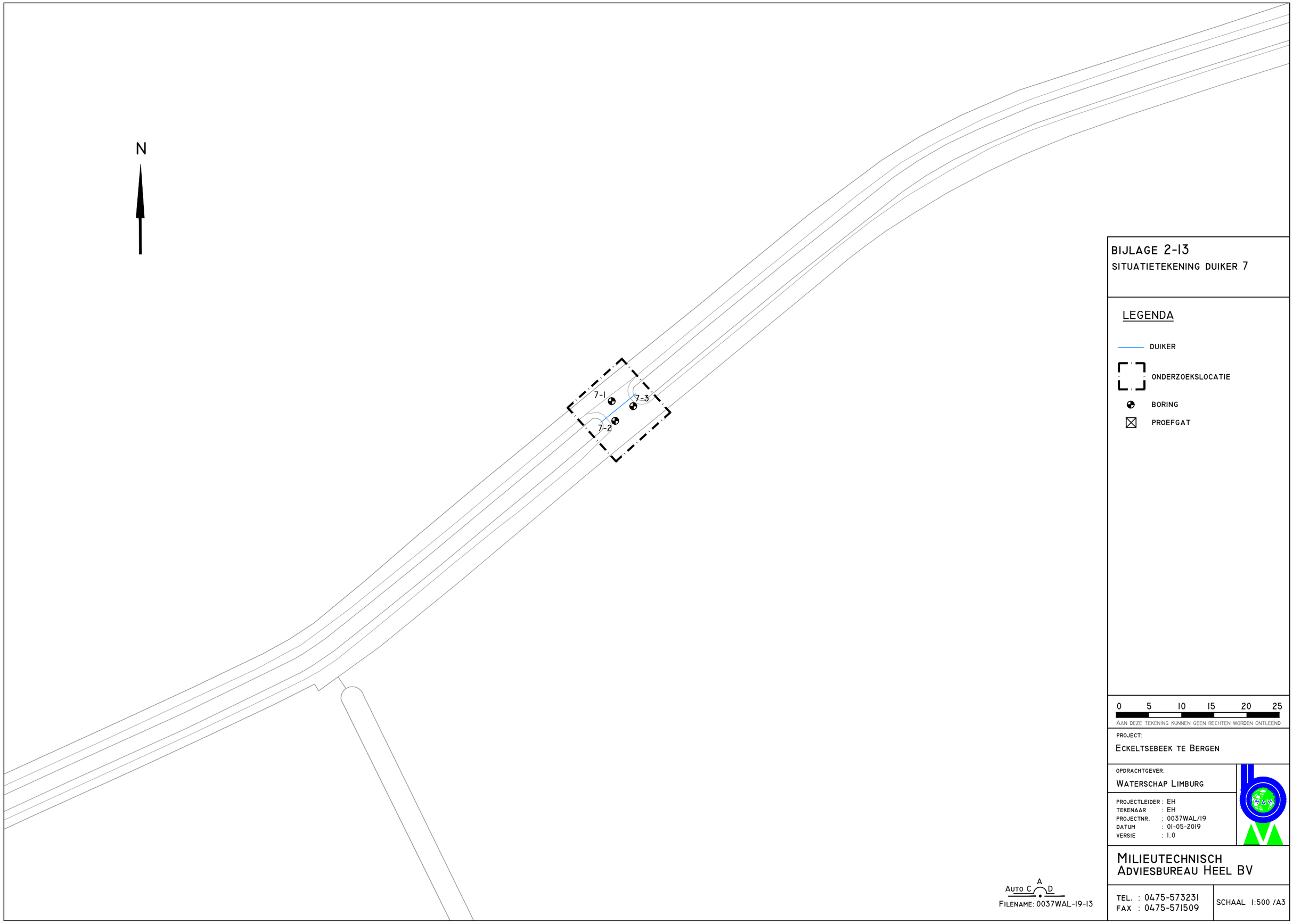

BIJLAGE 2-13

SITUATIETEKENING DUIKER 7

LEGENDA

DUIKER

ONDERZOEKSLOCATIE

BORING

PROEFGAT

0 5 10 15 20 25

Aan deze tekening kunnen geen rechten worden ontleend

PROJECT:

Eckeltsebeek te Bergen

OPDRACHTGEVER:

Waterschap Limburg

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

Milieutechnisch Adviesbureau Heel BV

TEL. : 0475-573231
FAX : 0475-571509

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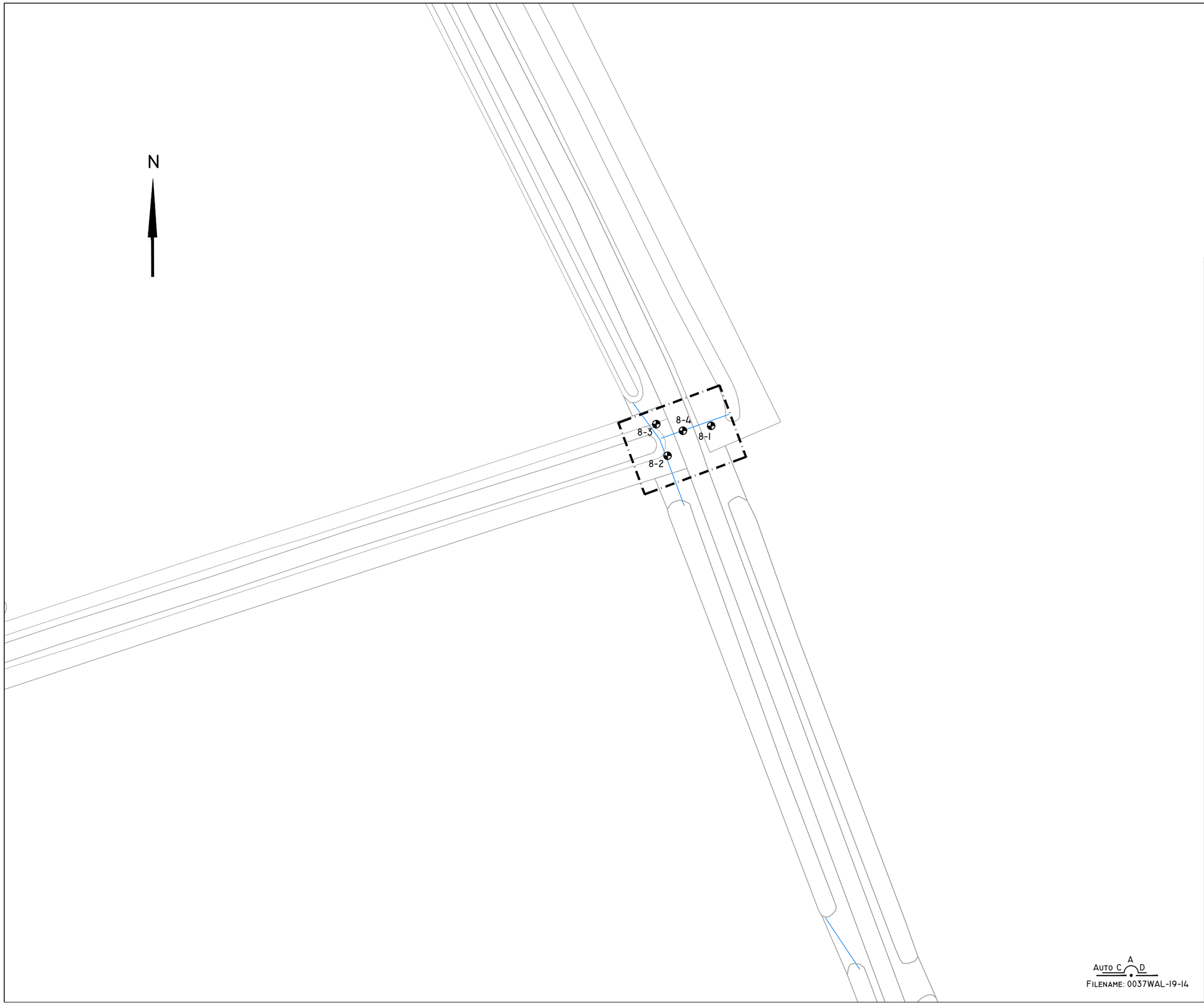


BIJLAGE 2-14

SITUATIETEKENING DUIKER 8

LEGENDA

DUIKER

ONDERZOEKSLOCATIE

BORING

PROEFGAT

0 5 10 15 20 25

AAN DEZE TEKENING KUNNEN GEEN RECHTEN WORDEN ONTLEEND

PROJECT:

ECKELTSEBEEK TE BERGEN

OPDRACHTGEVER:

WATERSCHAP LIMBURG

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

MILIEUTECHNISCH
ADVIESBUREAU HEEL BV

TEL. : 0475-573231
FAX : 0475-571509

SCHAAL 1:500 /A3

AUTO CAD

FILENAME: 0037WAL-19-14

BIJLAGE 3

BOORPROFIELEN

Legenda (conform NEN 5104)

grind
- Grind, siltig
- Grind, zwak zandig
- Grind, matig zandig
- Grind, sterk zandig
- Grind, uiterst zandig

zand
- Zand, kleïig
- Zand, zwak siltig
- Zand, matig siltig
- Zand, sterk siltig
- Zand, uiterst siltig

veen
- Veen, mineraalarm
- Veen, zwak kleïig
- Veen, sterk kleïig
- 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

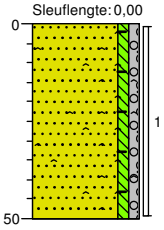
monsters
- geroerd monster
- ongeroerd monster
- volumering

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

Sleufbreedte:0,00
Sleuflengte:0,00



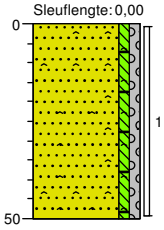
0 verharding

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

-50

Boring: 1-2

Sleufbreedte:0,00
Sleuflengte:0,00



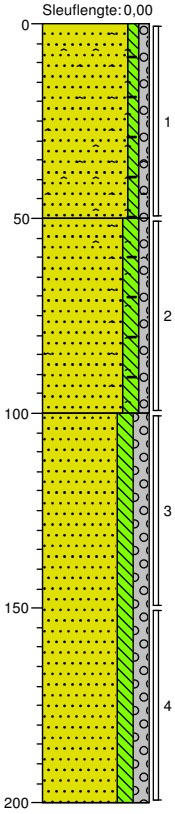
0 verharding

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

-50

Boring: 1-3

Sleufbreedte:0,00
Sleuflengte:0,00



0 verharding

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

-50

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

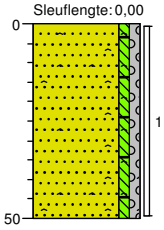
-100

Zand, matig grof, matig siltig, matig grindig, sporen roest, beigebruin, Edelmanboor

-200

Boring: 2-1

Sleufbreedte:0,00
Sleuflengte:0,00



0 braak

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

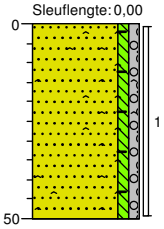
-50

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: 2-2

Sleufbreedte:0,00
Sleuflengte:0,00



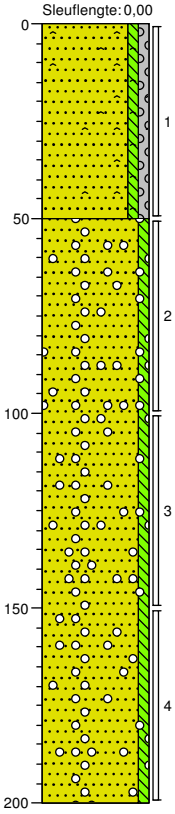
0 braak

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

-50

Boring: 2-3

Sleufbreedte:0,00
Sleuflengte:0,00



0 braak

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

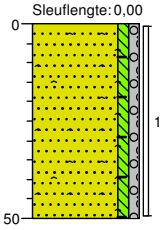
-50

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

-200

Boring: 3-1

Sleufbreedte:0,00
Sleuflengte:0,00



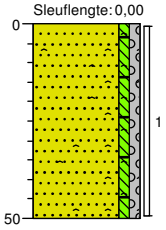
0 braak

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

-50

Boring: 3-2

Sleufbreedte:0,00
Sleuflengte:0,00



0 braak

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

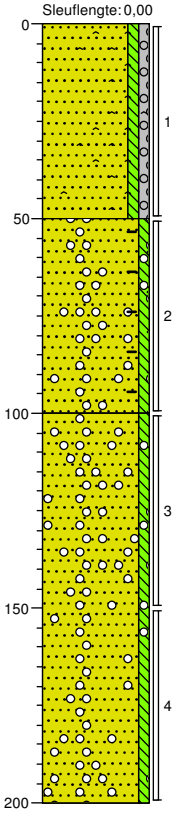
-50

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: 3-3

Sleufbreedte:0,00
Sleuflengte:0,00



0 braak

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

-50

Zand, matig grof, zwak siltig, zwak roesthoudend, sporen grind, sporen baksteen, bruinbeige, Edelmanboor

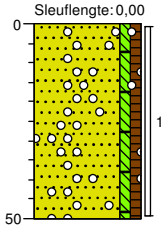
-100

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

-200

Boring: 4-1

Sleufbreedte:0,00
Sleuflengte:0,00



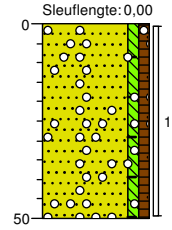
0 braak

Zand, matig grof, zwak siltig, zwak humeus, sporen kolengruis, sporen grind, sporen baksteen, donkerbruin, Edelmanboor

-50

Boring: 4-2

Sleufbreedte:0,00
Sleuflengte:0,00



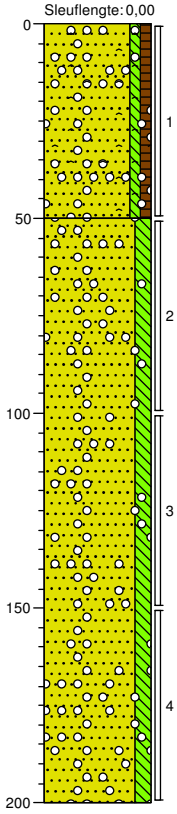
0 braak

Zand, matig grof, zwak siltig, zwak humeus, sporen baksteen, sporen roest, sporen grind, sporen kolengruis, donkerbruin, Edelmanboor

-50

Boring: 4-3

Sleufbreedte:0,00
Sleuflengte:0,00



0 braak

Zand, matig grof, zwak siltig, zwak humeus, sporen roest, sporen grind, sporen kolengruis, sporen asfalt, donkerbruin, Edelmanboor

-50

Zand, matig grof, matig siltig, sporen grind, sporen roest, grijsbeige, Edelmanboor

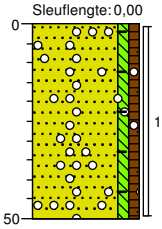
-200

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: 5-1

Sleufbreedte:0,00
Sleuflengte:0,00



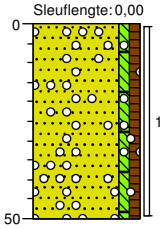
0 braak

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

-50

Boring: 5-2

Sleufbreedte:0,00
Sleuflengte:0,00



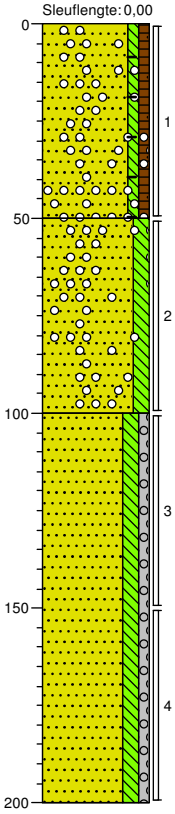
0 braak

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

-50

Boring: 5-3

Sleufbreedte:0,00
Sleuflengte:0,00



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

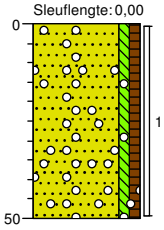
-100

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

-200

Boring: 6-1

Sleufbreedte:0,00
Sleuflengte:0,00



0 braak

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

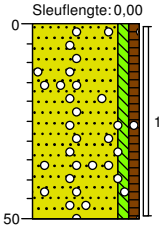
-50

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: 6-2

Sleufbreedte:0,00
Sleuflengte:0,00



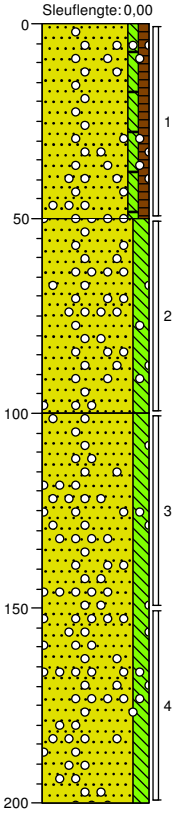
0 braak

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

-50

Boring: 6-3

Sleufbreedte:0,00
Sleuflengte:0,00



0 braak

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

-50

Zand, matig grof, matig siltig, sporen grind, zwak roesthoudend, beigebruin, Edelmanboor

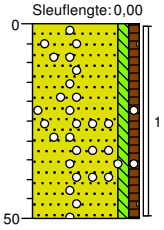
-100

Zand, zeer grof, matig siltig, sporen grind, zwak roesthoudend, laagjes leem, grijs, Edelmanboor

-200

Boring: 7-1

Sleufbreedte:0,00
Sleuflengte:0,00



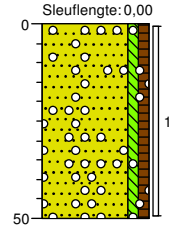
0 braak

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

-50

Boring: 7-2

Sleufbreedte:0,00
Sleuflengte:0,00



0 braak

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

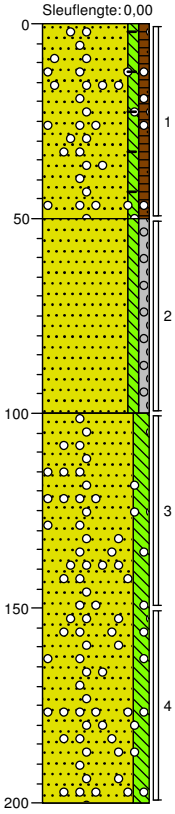
-50

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: 7-3

Sleufbreedte:0,00
Sleuflengte:0,00



0 braak

Zand, matig grof, zwak siltig, zwak humeus, sporen roest, sporen grind, sporen baksteen, beigebruin, Edelmanboor

-50

Zand, matig grof, zwak siltig, zwak grindig, zwak roesthoudend, beigebruin, Edelmanboor

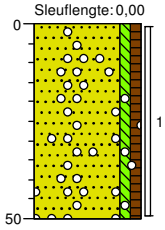
-100

Zand, matig grof, matig siltig, sporen grind, sporen roest, laagjes leem, beigegrijs, Edelmanboor

-200

Boring: 8-1

Sleufbreedte:0,00
Sleuflengte:0,00



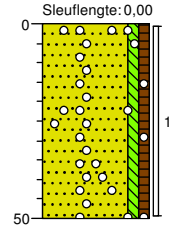
0 braak

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

-50

Boring: 8-2

Sleufbreedte:0,00
Sleuflengte:0,00



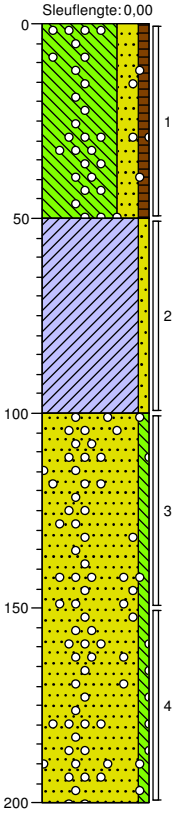
0 braak

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

-50

Boring: 8-3

Sleufbreedte:0,00
Sleuflengte:0,00



0 braak

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

-50

Klei, zwak zandig, zwak roesthoudend, beigegrijs, Edelmanboor

-100

Zand, zeer grof, zwak siltig, sporen grind, grijs, Edelmanboor

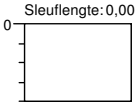
-200

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: 8-4

Sleufbreedte:0,00
Sleuflengte:0,00



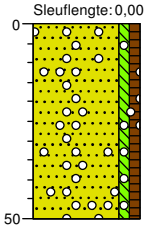
0 verharding

Volledig stol, oranjebruin, Edelmanboor

-20

Boring: O01

Sleufbreedte:0,00
Sleuflengte:0,00



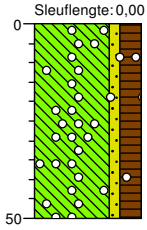
0 braak

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

-50

Boring: O02

Sleufbreedte:0,00
Sleuflengte:0,00



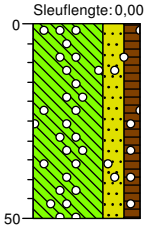
0 braak

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

-50

Boring: O03

Sleufbreedte:0,00
Sleuflengte:0,00



0 braak

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

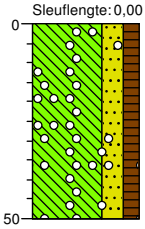
-50

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: O04

Sleufbreedte:0,00
Sleuflengte:0,00



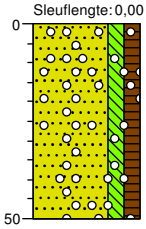
0 braak

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

-50

Boring: O05

Sleufbreedte:0,00
Sleuflengte:0,00



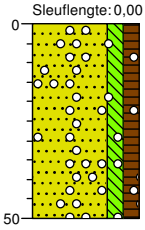
0 braak

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

-50

Boring: O06

Sleufbreedte:0,00
Sleuflengte:0,00



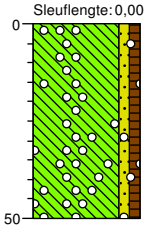
0 braak

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

-50

Boring: O07

Sleufbreedte:0,00
Sleuflengte:0,00



0 braak

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

-50

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: O08

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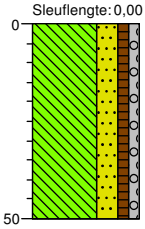
Sleuflengte:0,00



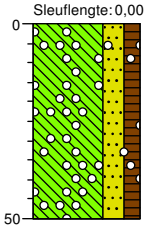
0 braak

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

-50

Boring: O09

Sleufbreedte:0,00
Sleuflengte:0,00



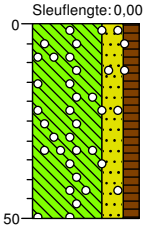
0 braak

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

-50

Boring: O10

Sleufbreedte:0,00
Sleuflengte:0,00



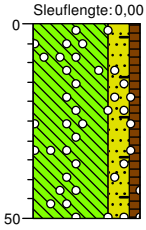
0 braak

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

-50

Boring: O11

Sleufbreedte:0,00
Sleuflengte:0,00



0 braak

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

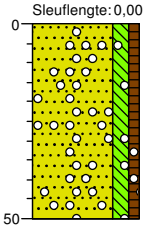
-50

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: O12

Sleufbreedte:0,00
Sleuflengte:0,00



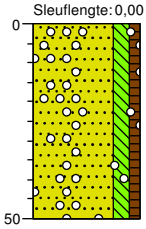
0 braak

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

-50

Boring: O13

Sleufbreedte:0,00
Sleuflengte:0,00



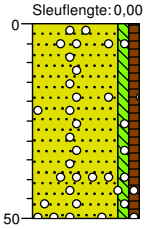
0 braak

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

-50

Boring: O14

Sleufbreedte:0,00
Sleuflengte:0,00



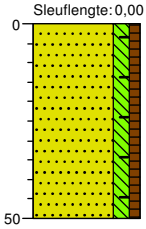
0 braak

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

-50

Boring: O15

Sleufbreedte:0,00
Sleuflengte:0,00



0 braak

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

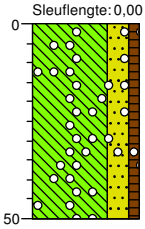
-50

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: O16

Sleufbreedte:0,00
Sleuflengte:0,00



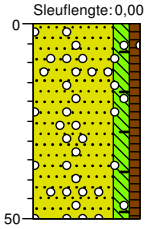
0 braak

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

-50

Boring: O17

Sleufbreedte:0,00
Sleuflengte:0,00



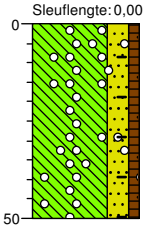
0 braak

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

-50

Boring: O18

Sleufbreedte:0,00
Sleuflengte:0,00



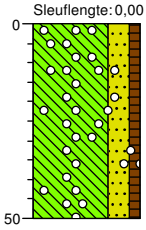
0 braak

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

-50

Boring: O19

Sleufbreedte:0,00
Sleuflengte:0,00



0 braak

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

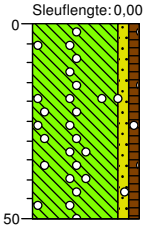
-50

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: O20

Sleufbreedte:0,00
Sleuflengte:0,00



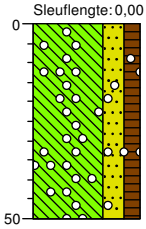
0 braak

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

-50

Boring: O21

Sleufbreedte:0,00
Sleuflengte:0,00



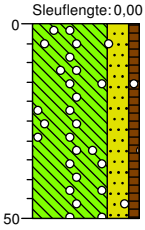
0 braak

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

-50

Boring: O22

Sleufbreedte:0,00
Sleuflengte:0,00



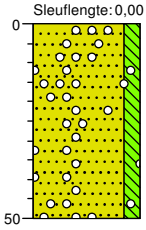
0 braak

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

-50

Boring: O23

Sleufbreedte:0,00
Sleuflengte:0,00



0 braak

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

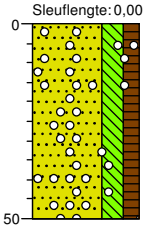
-50

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: O24

Sleufbreedte:0,00
Sleuflengte:0,00



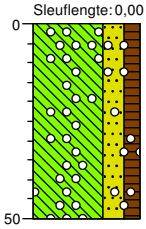
0 braak

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

-50

Boring: O25

Sleufbreedte:0,00
Sleuflengte:0,00



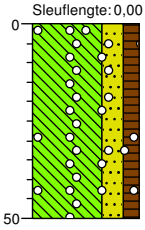
0 braak

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

-50

Boring: O26

Sleufbreedte:0,00
Sleuflengte:0,00



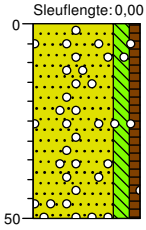
0 braak

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

-50

Boring: O27

Sleufbreedte:0,00
Sleuflengte:0,00



0 braak

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

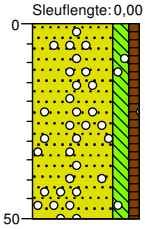
-50

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: O28

Sleufbreedte:0,00
Sleuflengte:0,00



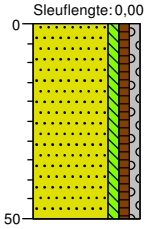
0 braak

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

-50

Boring: O29

Sleufbreedte:0,00
Sleuflengte:0,00



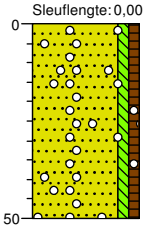
0 braak

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

-50

Boring: O30

Sleufbreedte:0,00
Sleuflengte:0,00



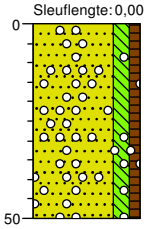
0 braak

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

-50

Boring: O31

Sleufbreedte:0,00
Sleuflengte:0,00



0 braak

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

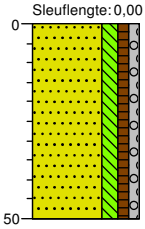
-50

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: O32

Sleufbreedte:0,00
Sleuflengte:0,00



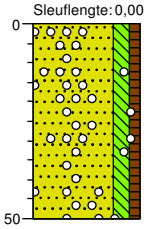
0 braak

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

-50

Boring: O33

Sleufbreedte:0,00
Sleuflengte:0,00



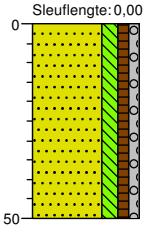
0 braak

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

-50

Boring: O34

Sleufbreedte:0,00
Sleuflengte:0,00



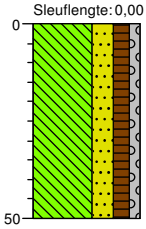
0 braak

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

-50

Boring: O35

Sleufbreedte:0,00
Sleuflengte:0,00



0 braak

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

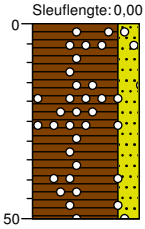
-50

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: O36

Sleufbreedte:0,00
Sleuflengte:0,00



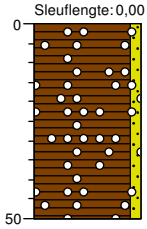
0 braak

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

-50

Boring: O37

Sleufbreedte:0,00
Sleuflengte:0,00



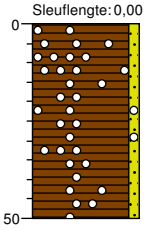
0 braak

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

-50

Boring: O38

Sleufbreedte:0,00
Sleuflengte:0,00



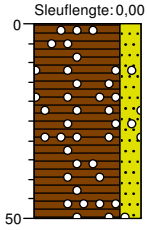
0 braak

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

-50

Boring: O39

Sleufbreedte:0,00
Sleuflengte:0,00



0 braak

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

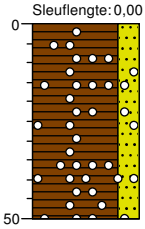
-50

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: O40

Sleufbreedte:0,00
Sleuflengte:0,00



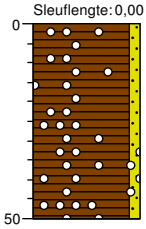
0 braak

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

-50

Boring: O41

Sleufbreedte:0,00
Sleuflengte:0,00



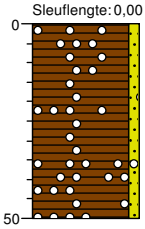
0 braak

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

-50

Boring: O42

Sleufbreedte:0,00
Sleuflengte:0,00



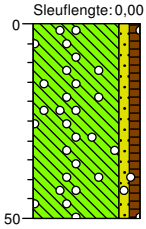
0 braak

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

-50

Boring: O43

Sleufbreedte:0,00
Sleuflengte:0,00



0 braak

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

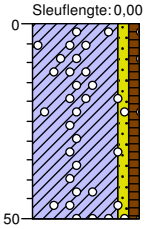
-50

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: O44

Sleufbreedte:0,00
Sleuflengte:0,00



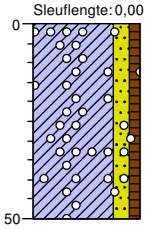
0 braak

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

-50

Boring: O45

Sleufbreedte:0,00
Sleuflengte:0,00



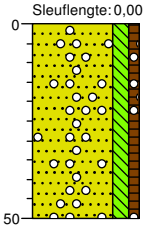
0 braak

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

-50

Boring: O46

Sleufbreedte:0,00
Sleuflengte:0,00



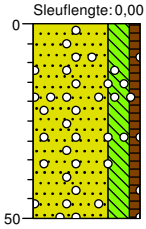
0 braak

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

-50

Boring: O47

Sleufbreedte:0,00
Sleuflengte:0,00



0 braak

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

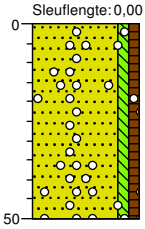
-50

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: O48

Sleufbreedte:0,00
Sleuflengte:0,00



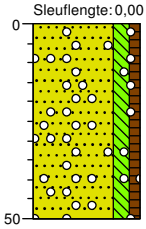
0 braak

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

-50

Boring: O49

Sleufbreedte:0,00
Sleuflengte:0,00



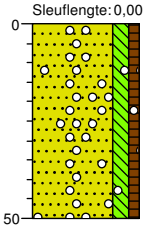
0 braak

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

-50

Boring: O50

Sleufbreedte:0,00
Sleuflengte:0,00



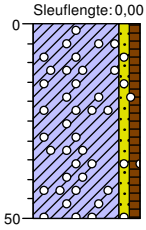
0 braak

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

-50

Boring: O51

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem

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

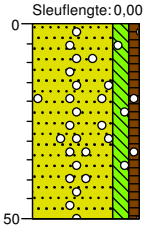
-50

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: O52

Sleufbreedte:0,00
Sleuflengte:0,00



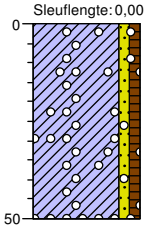
0 braak

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

-50

Boring: O53

Sleufbreedte:0,00
Sleuflengte:0,00



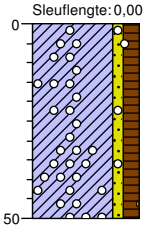
0 braak

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

-50

Boring: O54

Sleufbreedte:0,00
Sleuflengte:0,00



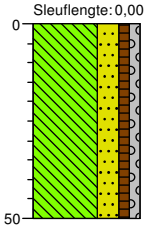
0 braak

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

-50

Boring: O55

Sleufbreedte:0,00
Sleuflengte:0,00



0 braak

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

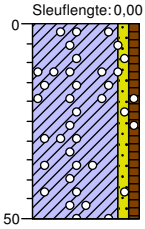
-50

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: O56

Sleufbreedte:0,00
Sleuflengte:0,00



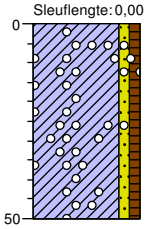
0 braak

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

-50

Boring: O57

Sleufbreedte:0,00
Sleuflengte:0,00



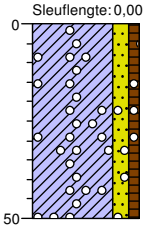
0 braak

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

-50

Boring: O58

Sleufbreedte:0,00
Sleuflengte:0,00



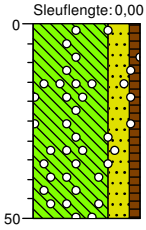
0 braak

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

-50

Boring: O59

Sleufbreedte:0,00
Sleuflengte:0,00



0 braak

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

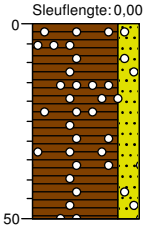
-50

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: O60

Sleufbreedte:0,00
Sleuflengte:0,00



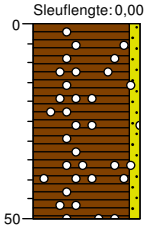
0 braak

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

-50

Boring: O61

Sleufbreedte:0,00
Sleuflengte:0,00



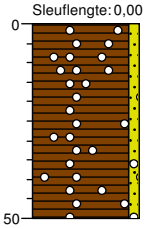
0 braak

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

-50

Boring: O62

Sleufbreedte:0,00
Sleuflengte:0,00



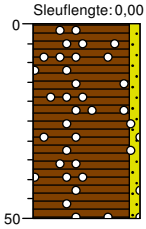
0 braak

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

-50

Boring: O63

Sleufbreedte:0,00
Sleuflengte:0,00



0 braak

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

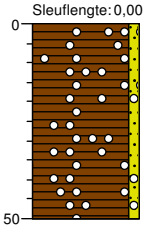
-50

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: O64

Sleufbreedte:0,00
Sleuflengte:0,00



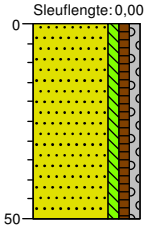
0 braak

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

-50

Boring: O65

Sleufbreedte:0,00
Sleuflengte:0,00



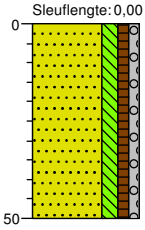
0 braak

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

-50

Boring: O66

Sleufbreedte:0,00
Sleuflengte:0,00



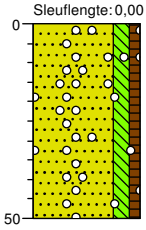
0 braak

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

-50

Boring: O67

Sleufbreedte:0,00
Sleuflengte:0,00



0 braak

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

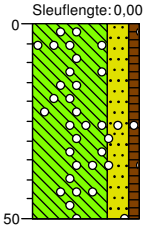
-50

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: O68

Sleufbreedte:0,00
Sleuflengte:0,00



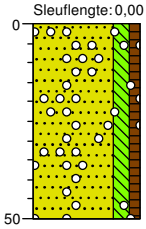
0 braak

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

-50

Boring: O69

Sleufbreedte:0,00
Sleuflengte:0,00



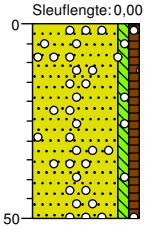
0 braak

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

-50

Boring: O70

Sleufbreedte:0,00
Sleuflengte:0,00



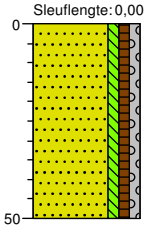
0 braak

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

-50

Boring: O71

Sleufbreedte:0,00
Sleuflengte:0,00



0 braak

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

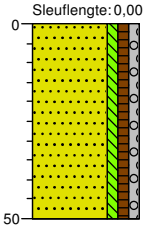
-50

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: O72

Sleufbreedte:0,00
Sleuflengte:0,00



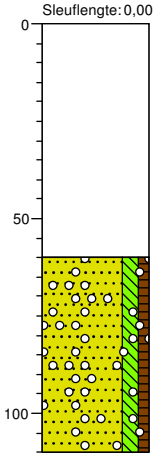
0 braak

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

-50

Boring: W001

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem

Edelmanboor

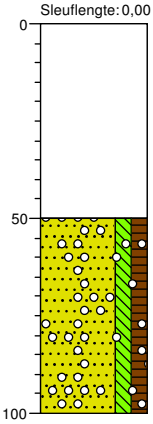
-60

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

-110

Boring: W002

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem

Edelmanboor

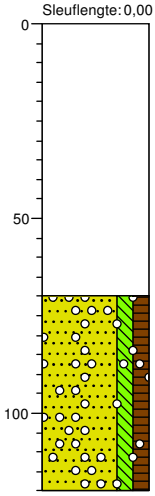
-50

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

-100

Boring: W003

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem

Edelmanboor

-70

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

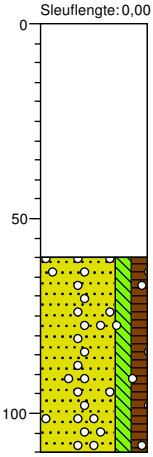
-120

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W004

Sleufbreedte:0,00
Sleuflengte:0,00



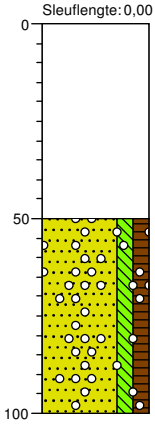
0 waterbodem
Edelmanboor

-60
Zand, zeer grof, matig siltig, matig humeus, sporen grind, resten wortels, zwak roesthoudend, oranjebruin, Edelmanboor

-110

Boring: W005

Sleufbreedte:0,00
Sleuflengte:0,00



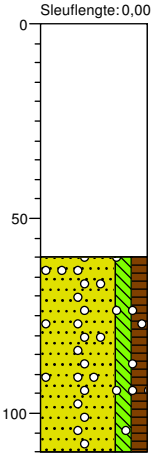
0 waterbodem
Edelmanboor

-50
Zand, zeer grof, matig siltig, matig humeus, sporen grind, resten wortels, sporen roest, oranjegrijs, Edelmanboor

-100

Boring: W006

Sleufbreedte:0,00
Sleuflengte:0,00



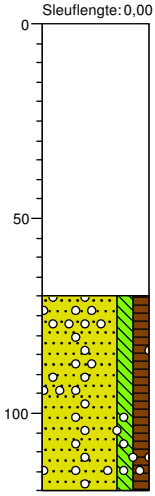
0 waterbodem
Edelmanboor

-60
Zand, zeer grof, matig siltig, matig humeus, sporen grind, resten wortels, zwak roesthoudend, oranjegrijs, Edelmanboor

-110

Boring: W007

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem
Edelmanboor

-70
Zand, zeer grof, matig siltig, matig humeus, sporen grind, resten wortels, zwak roesthoudend, oranjebruin, Edelmanboor

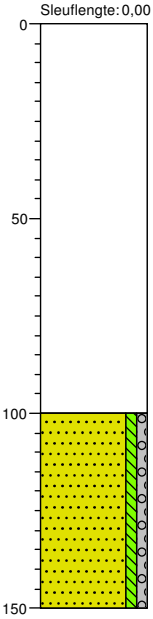
-120

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W008

Sleufbreedte:0,00
Sleuflengte:0,00



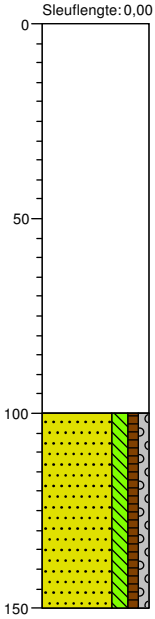
0 waterbodem
Edelmanboor

-100 Zand, zeer grof, zwak siltig, zwak grindig, resten wortels, zwak roesthoudend, oranjebruin, Edelmanboor

-150

Boring: W009

Sleufbreedte:0,00
Sleuflengte:0,00



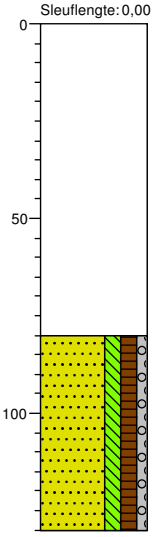
0 waterbodem
Edelmanboor

-100 Zand, matig grof, matig siltig, zwak humeus, zwak grindig, resten wortels, zwak roesthoudend, oranjegrijs, Edelmanboor

-150

Boring: W010

Sleufbreedte:0,00
Sleuflengte:0,00



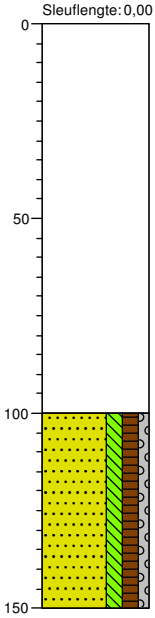
0 waterbodem
Edelmanboor

-80 Zand, zeer grof, matig siltig, matig humeus, zwak grindig, resten roest, oranjegrijs, Edelmanboor

-130

Boring: W011

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem
Edelmanboor

-100 Zand, zeer grof, matig siltig, matig humeus, zwak grindig, resten wortels, zwak roesthoudend, oranjebruin, Edelmanboor

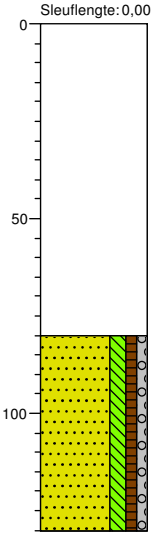
-150

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W012

Sleufbreedte:0,00
Sleuflengte:0,00



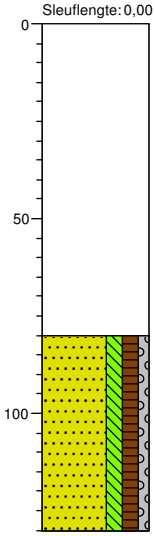
0 waterbodem
Edelmanboor

-80
Zand, zeer grof, matig siltig, zwak humeus, zwak grindig, resten wortels, zwak roesthoudend, oranjebruin, Edelmanboor

-130

Boring: W013

Sleufbreedte:0,00
Sleuflengte:0,00



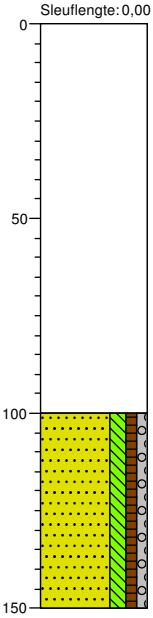
0 waterbodem
Edelmanboor

-80
Zand, matig grof, matig siltig, matig humeus, zwak grindig, resten wortels, zwak roesthoudend, oranjebruin, Edelmanboor

-130

Boring: W014

Sleufbreedte:0,00
Sleuflengte:0,00



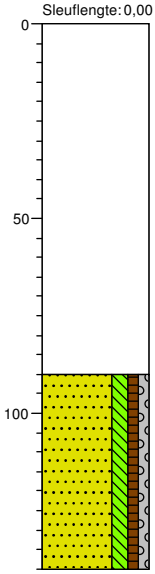
0 waterbodem
Edelmanboor

-100
Zand, zeer grof, matig siltig, zwak humeus, zwak grindig, resten wortels, zwak roesthoudend, oranjegrijs, Edelmanboor

-150

Boring: W015

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem
Edelmanboor

-90
Zand, matig grof, matig siltig, zwak humeus, zwak grindig, resten wortels, zwak roesthoudend, oranjebruin, Edelmanboor

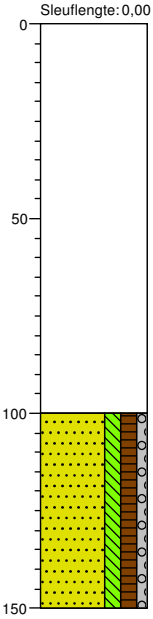
-140

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W016

Sleufbreedte:0,00
Sleuflengte:0,00



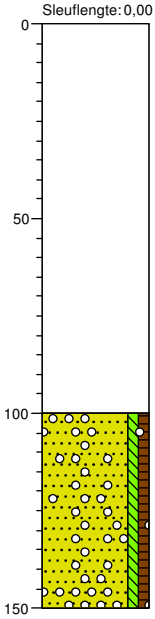
0 waterbodem
Edelmanboor

-100
Zand, zeer grof, matig siltig, matig humeus, zwak grindig, resten wortels, zwak roesthoudend, oranjegrijs, Edelmanboor

-150

Boring: W017

Sleufbreedte:0,00
Sleuflengte:0,00



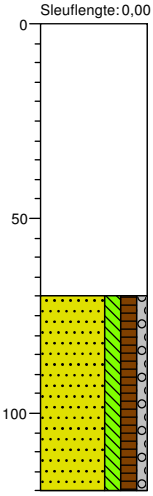
0 waterbodem
Edelmanboor

-100
Zand, matig grof, zwak siltig, zwak humeus, sporen grind, resten wortels, sporen roest, oranjebruin, Edelmanboor

-150

Boring: W018

Sleufbreedte:0,00
Sleuflengte:0,00



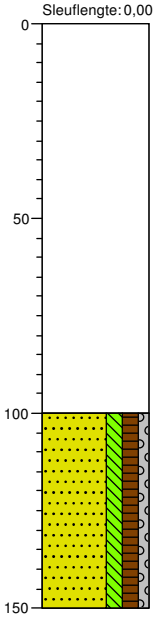
0 waterbodem
Edelmanboor

-70
Zand, matig grof, matig siltig, matig humeus, zwak grindig, resten wortels, zwak roesthoudend, oranjebruin, Edelmanboor

-120

Boring: W019

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem
Edelmanboor

-100
Zand, zeer grof, matig siltig, matig humeus, zwak grindig, zwak roesthoudend, resten wortels, oranjegrijs, Edelmanboor

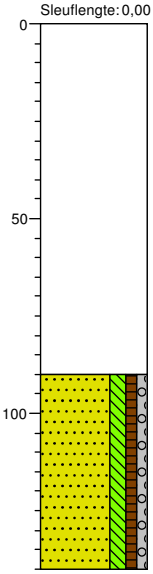
-150

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W020

Sleufbreedte:0,00
Sleuflengte:0,00



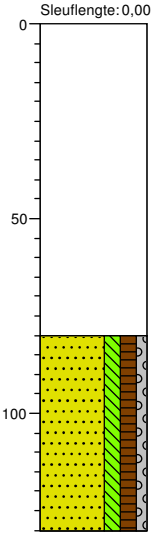
0 waterbodem
Edelmanboor

-90
Zand, matig grof, matig siltig, zwak humeus, zwak grindig, resten wortels, zwak roesthoudend, oranjegrijs, Edelmanboor

-140

Boring: W021

Sleufbreedte:0,00
Sleuflengte:0,00



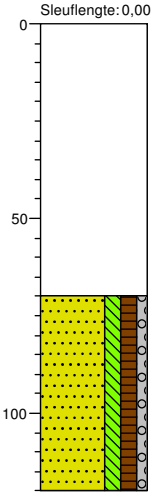
0 waterbodem
Edelmanboor

-80
Zand, zeer grof, matig siltig, matig humeus, zwak grindig, resten wortels, zwak roesthoudend, grijsbruin, Edelmanboor

-130

Boring: W022

Sleufbreedte:0,00
Sleuflengte:0,00



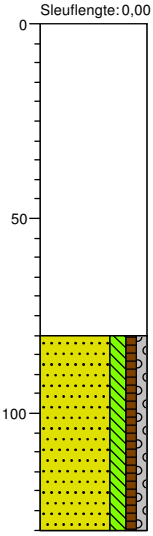
0 waterbodem
Edelmanboor

-70
Zand, zeer grof, matig siltig, matig humeus, zwak grindig, oranjebruin, Edelmanboor

-120

Boring: W023

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem
Edelmanboor

-80
Zand, matig grof, matig siltig, zwak humeus, zwak grindig, resten wortels, zwak roesthoudend, oranjebruin, Edelmanboor

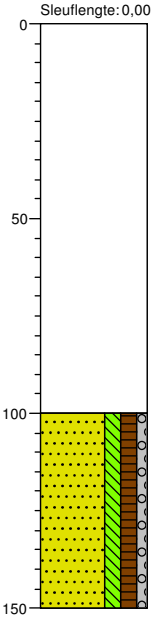
-130

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W024

Sleufbreedte:0,00
Sleuflengte:0,00



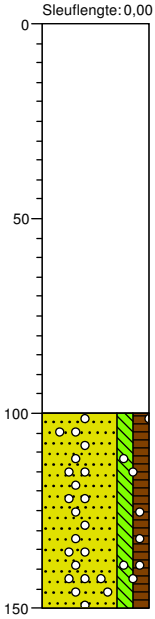
0 waterbodem
Edelmanboor

-100 Zand, zeer grof, matig siltig, matig humeus, zwak grindig, resten wortels, zwak roesthoudend, grijsbruin, Edelmanboor

-150

Boring: W025

Sleufbreedte:0,00
Sleuflengte:0,00



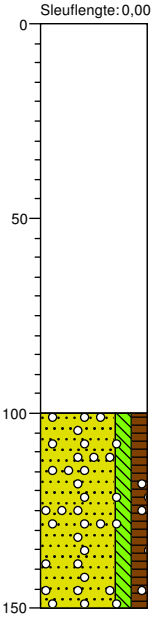
0 waterbodem
Edelmanboor

-100 Zand, matig grof, matig siltig, matig humeus, sporen grind, resten wortels, zwak roesthoudend, oranjegrijs, Edelmanboor

-150

Boring: W026

Sleufbreedte:0,00
Sleuflengte:0,00



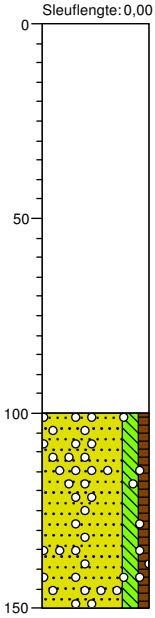
0 waterbodem
Edelmanboor

-100 Zand, matig grof, matig siltig, matig humeus, sporen grind, resten wortels, zwak roesthoudend, oranjegrijs, Edelmanboor

-150

Boring: W027

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem
Edelmanboor

-100 Zand, matig grof, matig siltig, zwak humeus, sporen grind, resten wortels, sporen roest, grijsbruin, Edelmanboor

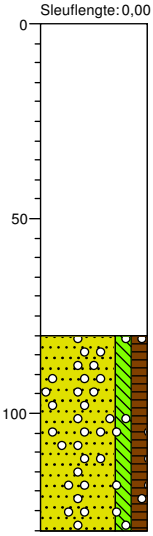
-150

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W028

Sleufbreedte:0,00
Sleuflengte:0,00



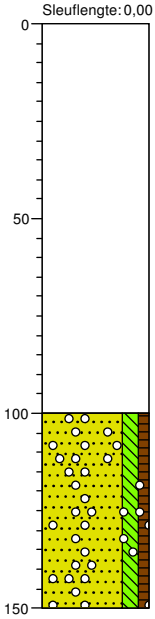
0 waterbodem
Edelmanboor

-80
Zand, matig grof, matig siltig, matig humeus, sporen grind, resten wortels, zwak roesthoudend, grijs, Edelmanboor

-130

Boring: W029

Sleufbreedte:0,00
Sleuflengte:0,00



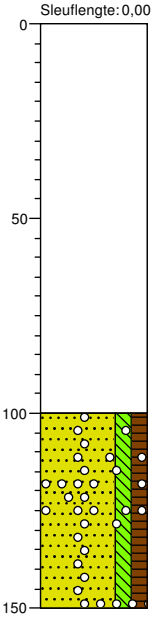
0 waterbodem
Edelmanboor

-100
Zand, matig fijn, matig siltig, zwak humeus, sporen grind, resten wortels, sporen roest, donkergrijs, Edelmanboor

-150

Boring: W030

Sleufbreedte:0,00
Sleuflengte:0,00



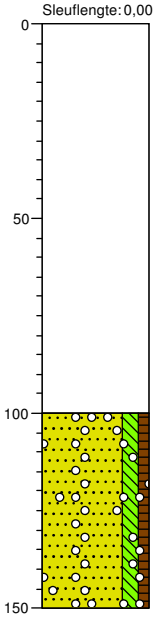
0 waterbodem
Edelmanboor

-100
Zand, matig grof, matig siltig, matig humeus, sporen grind, resten wortels, sporen roest, grijsbruin, Edelmanboor

-150

Boring: W031

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem
Edelmanboor

-100
Zand, matig grof, matig siltig, zwak humeus, sporen grind, resten wortels, zwak roesthoudend, grijsbruin, Edelmanboor

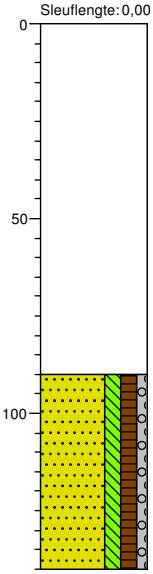
-150

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W032

Sleufbreedte:0,00
Sleuflengte:0,00



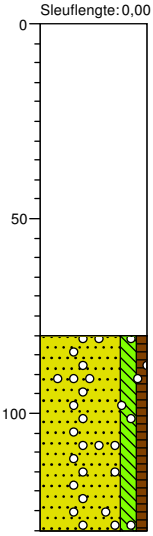
0 waterbodem
Edelmanboor

-90
Zand, matig grof, matig siltig, matig humeus, zwak grindig, resten wortels, zwak roesthoudend, donkergrijs, Edelmanboor

-140

Boring: W033

Sleufbreedte:0,00
Sleuflengte:0,00



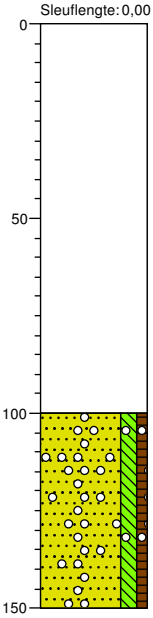
0 waterbodem
Edelmanboor

-80
Zand, matig grof, matig siltig, zwak humeus, sporen grind, resten wortels, zwak roesthoudend, oranjebruin, Edelmanboor

-130

Boring: W034

Sleufbreedte:0,00
Sleuflengte:0,00



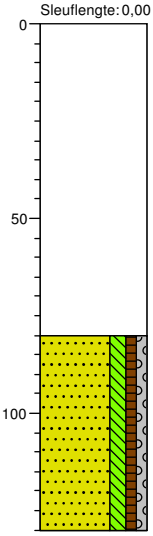
0 waterbodem
Edelmanboor

-100
Zand, matig grof, matig siltig, zwak humeus, sporen grind, resten wortels, zwak roesthoudend, grijsbruin, Edelmanboor

-150

Boring: W035

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem
Edelmanboor

-80
Zand, matig grof, matig siltig, zwak humeus, zwak grindig, resten wortels, zwak roesthoudend, oranjebruin, Edelmanboor

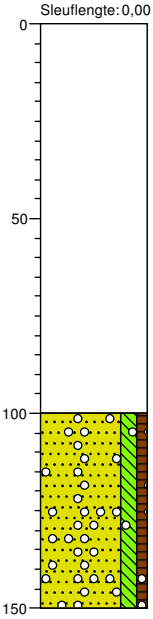
-130

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W036

Sleufbreedte:0,00
Sleuflengte:0,00



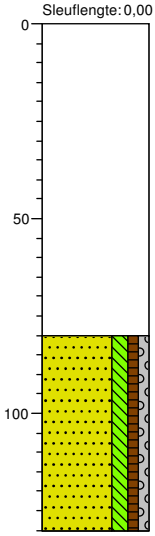
0 waterbodem
Edelmanboor

-100
Zand, matig grof, matig siltig, zwak humeus, sporen grind, resten wortels, zwak roesthoudend, grijsbruin, Edelmanboor

-150

Boring: W037

Sleufbreedte:0,00
Sleuflengte:0,00



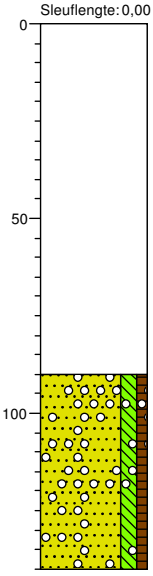
0 waterbodem
Edelmanboor

-80
Zand, matig grof, matig siltig, zwak humeus, zwak grindig, resten wortels, sporen roest, oranjegrijs, Edelmanboor

-130

Boring: W038

Sleufbreedte:0,00
Sleuflengte:0,00



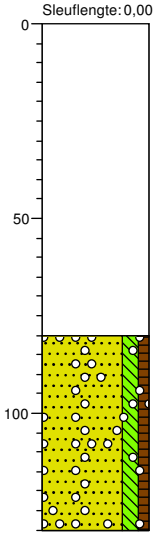
0 waterbodem
Edelmanboor

-90
Zand, matig grof, matig siltig, zwak humeus, sporen grind, resten wortels, sporen roest, grijsbruin, Edelmanboor

-140

Boring: W039

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem
Edelmanboor

-80
Zand, matig grof, matig siltig, zwak humeus, sporen grind, resten wortels, zwak roesthoudend, oranjebruin, Edelmanboor

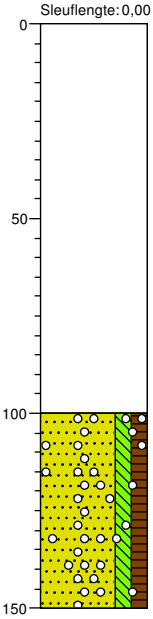
-130

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W040

Sleufbreedte:0,00
Sleuflengte:0,00



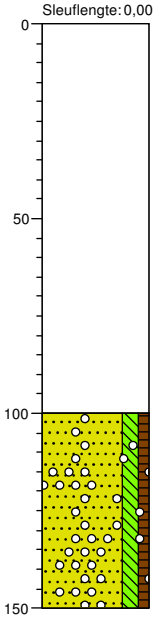
0 waterbodem
Edelmanboor

-100 Zand, matig grof, matig siltig, matig humeus, sporen grind, resten wortels, zwak roesthoudend, oranjegrijs, Edelmanboor

-150

Boring: W041

Sleufbreedte:0,00
Sleuflengte:0,00



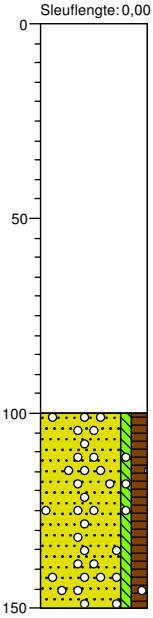
0 waterbodem
Edelmanboor

-100 Zand, matig grof, matig siltig, zwak humeus, sporen grind, resten wortels, sporen roest, donkergrijs, Edelmanboor

-150

Boring: W042

Sleufbreedte:0,00
Sleuflengte:0,00



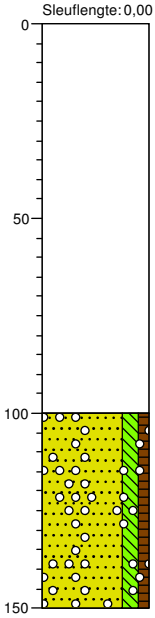
0 waterbodem
Edelmanboor

-100 Zand, matig grof, zwak siltig, matig humeus, sporen grind, resten wortels, sporen roest, donkergrijs, Edelmanboor

-150

Boring: W043

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem
Edelmanboor

-100 Zand, matig grof, matig siltig, zwak humeus, sporen grind, resten wortels, sporen roest, donkergrijs, Edelmanboor

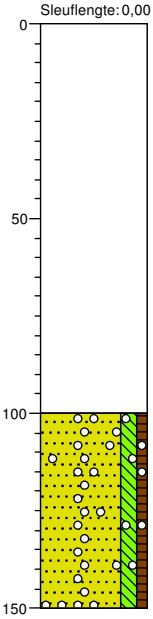
-150

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W044

Sleufbreedte:0,00
Sleuflengte:0,00



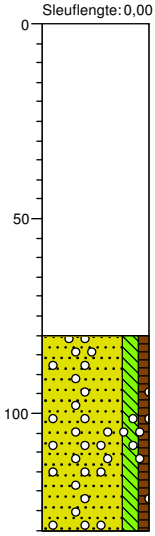
0 waterbodem
Edelmanboor

-100
Zand, matig grof, matig siltig, zwak humeus, sporen grind, resten wortels, sporen roest, grijs, Edelmanboor

-150

Boring: W045

Sleufbreedte:0,00
Sleuflengte:0,00



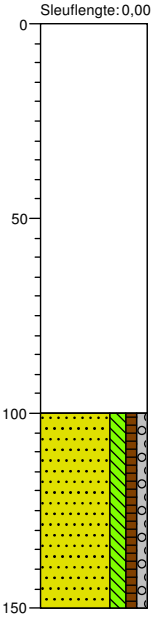
0 waterbodem
Edelmanboor

-80
Zand, matig grof, matig siltig, zwak humeus, sporen grind, resten wortels, zwak roesthoudend, donkergrijs, Edelmanboor

-130

Boring: W046

Sleufbreedte:0,00
Sleuflengte:0,00



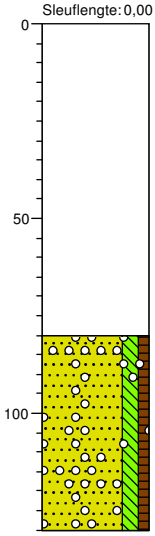
0 waterbodem
Edelmanboor

-100
Zand, matig grof, matig siltig, zwak humeus, zwak grindig, resten wortels, zwak roesthoudend, donkergrijs, Edelmanboor

-150

Boring: W047

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem
Edelmanboor

-80
Zand, matig grof, matig siltig, zwak humeus, sporen grind, resten wortels, zwak roesthoudend, donkergrijs, Edelmanboor

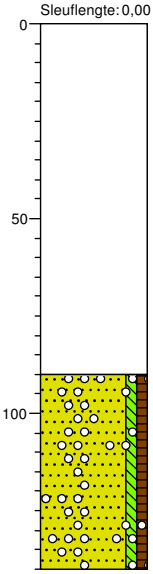
-130

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W048

Sleufbreedte:0,00
Sleuflengte:0,00



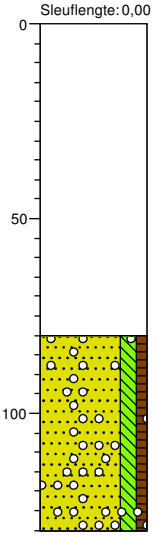
0 waterbodem
Edelmanboor

-90
Zand, matig grof, zwak siltig, zwak humeus, sporen grind, resten wortels, sporen roest, donkergrijs, Edelmanboor

-140

Boring: W049

Sleufbreedte:0,00
Sleuflengte:0,00



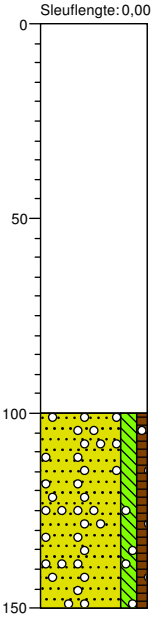
0 waterbodem
Edelmanboor

-80
Zand, matig grof, matig siltig, zwak humeus, sporen grind, resten wortels, zwak roesthoudend, grijs, Edelmanboor

-130

Boring: W050

Sleufbreedte:0,00
Sleuflengte:0,00



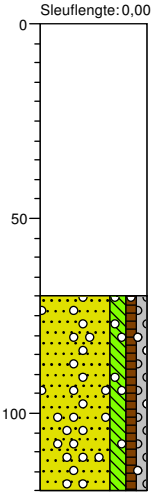
0 waterbodem
Edelmanboor

-100
Zand, matig grof, matig siltig, zwak humeus, sporen grind, resten wortels, sporen roest, donkergrijs, Edelmanboor

-150

Boring: W051

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem
Edelmanboor

-70
Zand, zeer grof, matig siltig, zwak humeus, zwak grindig, resten wortels, sporen grind, grijs, Edelmanboor

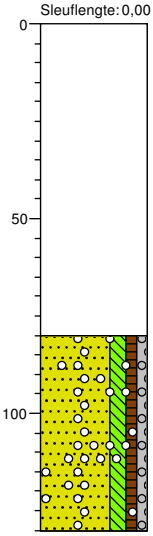
-120

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W052

Sleufbreedte:0,00
Sleuflengte:0,00



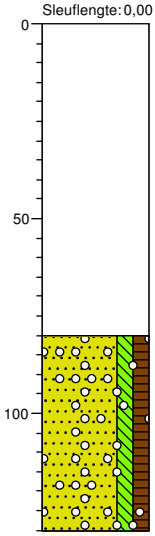
0 waterbodem
Edelmanboor

-80
Zand, zeer grof, matig siltig, zwak humeus, zwak grindig, sporen grind, resten wortels, grijsbruin, Edelmanboor

-130

Boring: W053

Sleufbreedte:0,00
Sleuflengte:0,00



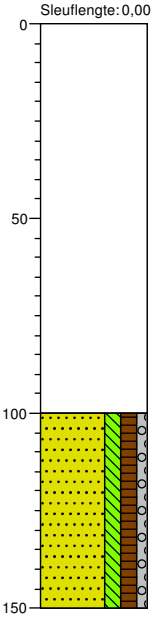
0 waterbodem
Edelmanboor

-80
Zand, zeer grof, matig siltig, matig humeus, sporen grind, resten wortels, grijsbruin, Edelmanboor

-130

Boring: W054

Sleufbreedte:0,00
Sleuflengte:0,00



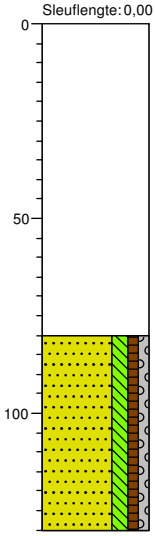
0 waterbodem
Edelmanboor

-100
Zand, matig grof, matig siltig, matig humeus, zwak grindig, resten wortels, grijsbruin, Edelmanboor

-150

Boring: W055

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem
Edelmanboor

-80
Zand, zeer grof, matig siltig, zwak humeus, zwak grindig, sporen roest, resten wortels, donkergrijs, Edelmanboor

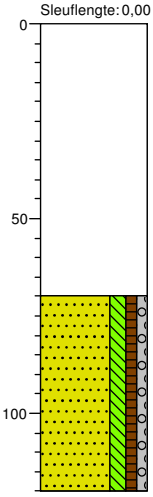
-130

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W056

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem

Edelmanboor

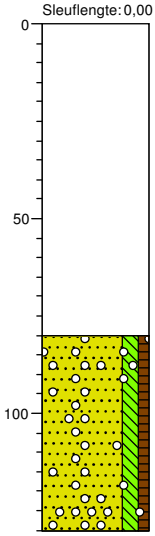
-70

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

-120

Boring: W057

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem

Edelmanboor

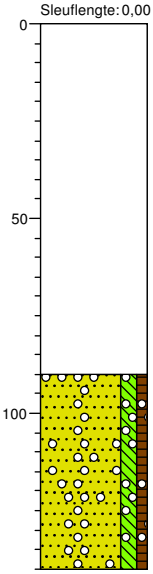
-80

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

-130

Boring: W058

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem

Edelmanboor

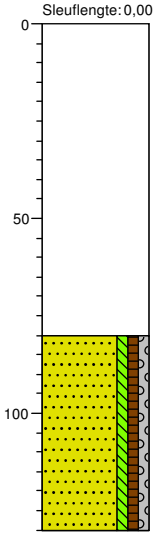
-90

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

-140

Boring: W059

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem

Edelmanboor

-80

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

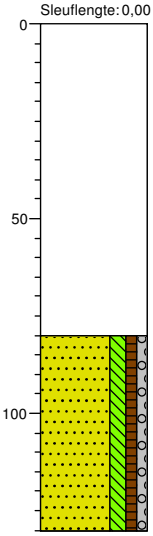
-130

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W060

Sleufbreedte:0,00
Sleuflengte:0,00



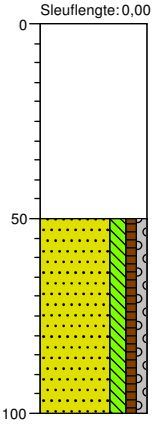
0 waterbodem
Edelmanboor

-80
Zand, zeer grof, matig siltig, zwak humeus, zwak grindig, resten wortels, sporen roest, donkergrijs, Edelmanboor

-130

Boring: W061

Sleufbreedte:0,00
Sleuflengte:0,00



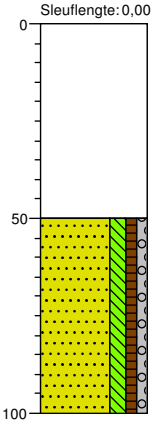
0 waterbodem
Edelmanboor

-50
Zand, matig grof, matig siltig, zwak humeus, zwak grindig, zwak roesthoudend, resten wortels, Edelmanboor

-100

Boring: W062

Sleufbreedte:0,00
Sleuflengte:0,00



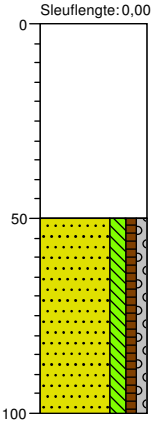
0 waterbodem
Edelmanboor

-50
Zand, matig grof, matig siltig, zwak humeus, zwak grindig, zwak roesthoudend, resten wortels, grijsbruin, Edelmanboor

-100

Boring: W063

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem
Edelmanboor

-50
Zand, matig grof, matig siltig, zwak humeus, zwak grindig, zwak roesthoudend, resten wortels, oranjebruin, Edelmanboor

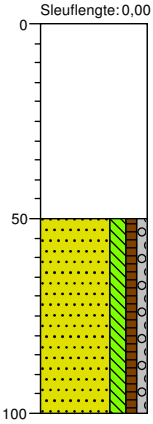
-100

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W064

Sleufbreedte:0,00
Sleuflengte:0,00



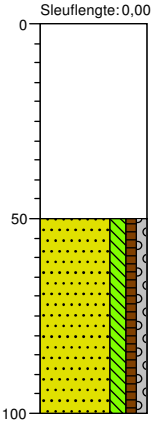
0 waterbodem
Edelmanboor

-50
Zand, matig grof, matig siltig, zwak humeus, zwak grindig, resten wortels, sporen roest, grijsbruin, Edelmanboor

-100

Boring: W065

Sleufbreedte:0,00
Sleuflengte:0,00



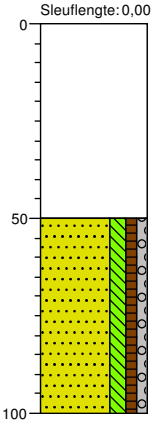
0 waterbodem
Edelmanboor

-50
Zand, matig grof, matig siltig, zwak humeus, zwak grindig, resten wortels, zwak roesthoudend, grijsbruin, Edelmanboor

-100

Boring: W066

Sleufbreedte:0,00
Sleuflengte:0,00



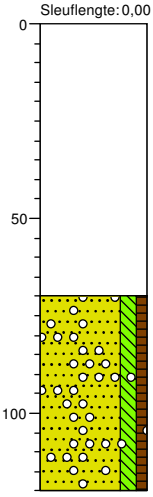
0 waterbodem
Edelmanboor

-50
Zand, zeer grof, matig siltig, zwak humeus, zwak grindig, resten wortels, zwak roesthoudend, donkergrijs, Edelmanboor

-100

Boring: W067

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem
Edelmanboor

-70
Zand, matig grof, matig siltig, zwak humeus, sporen grind, resten wortels, zwak roesthoudend, grijsbruin, Edelmanboor

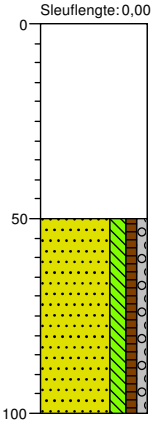
-120

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W068

Sleufbreedte:0,00
Sleuflengte:0,00



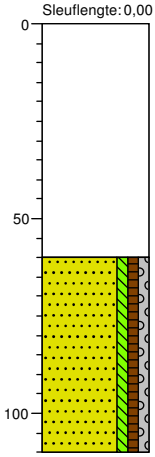
0 waterbodem
Edelmanboor

-50
Zand, matig grof, matig siltig, zwak humeus, zwak grindig, zwak roesthoudend, resten wortels, grijsbruin, Edelmanboor

-100

Boring: W069

Sleufbreedte:0,00
Sleuflengte:0,00



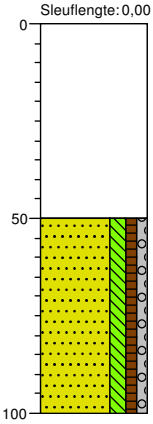
0 waterbodem
Edelmanboor

-60
Zand, matig grof, zwak siltig, zwak humeus, zwak grindig, resten wortels, zwak roesthoudend, oranjebruin, Edelmanboor

-110

Boring: W070

Sleufbreedte:0,00
Sleuflengte:0,00



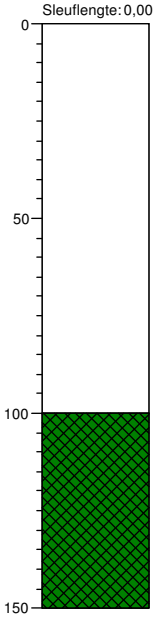
0 waterbodem
Edelmanboor

-50
Zand, matig grof, matig siltig, zwak humeus, zwak grindig, resten wortels, zwak roesthoudend, grijsbruin, Edelmanboor

-100

Boring: W071

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem
Edelmanboor

-100
Slib, donkergrijs, Zuigerboor

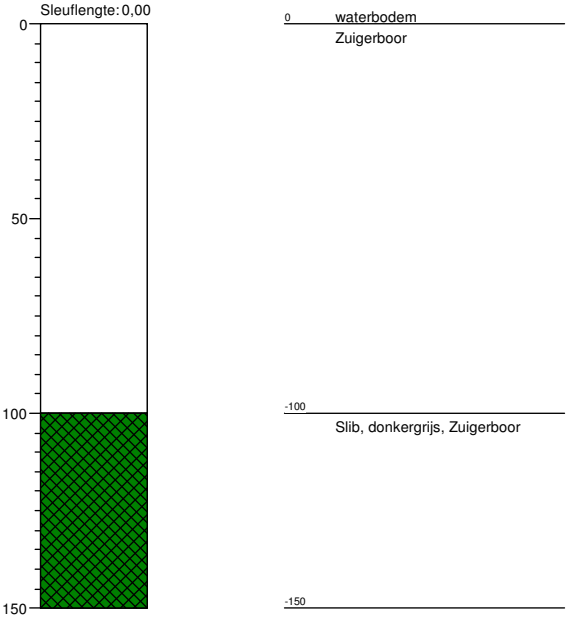
-150

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

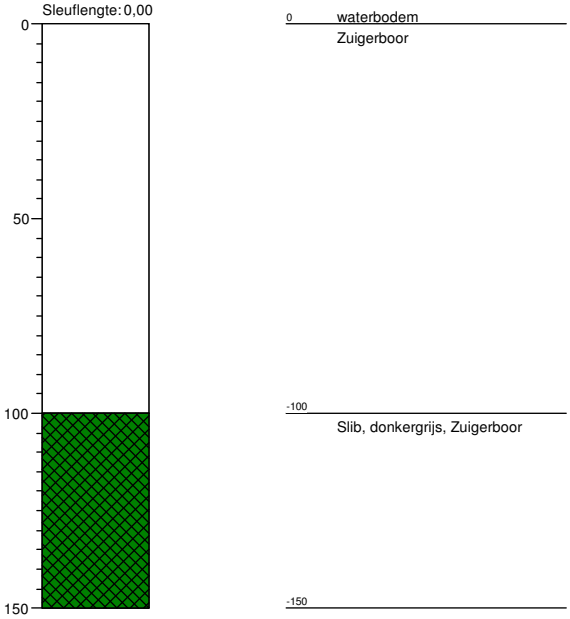
Boring: W072

Sleufbreedte:0,00
Sleuflengte:0,00



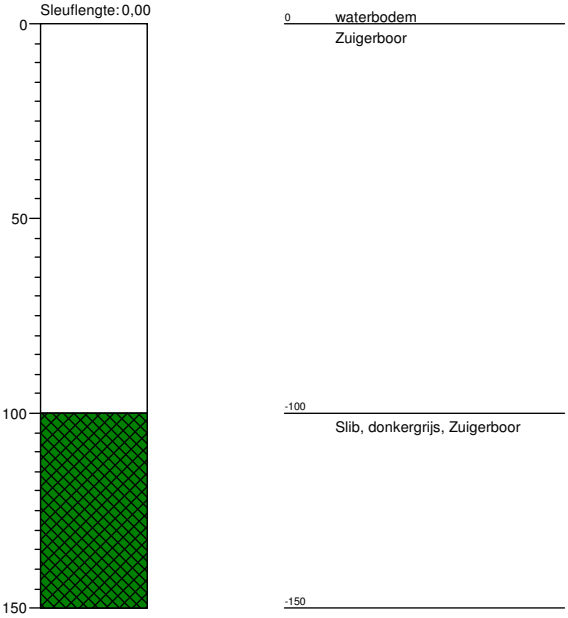
Boring: W073

Sleufbreedte:0,00
Sleuflengte:0,00



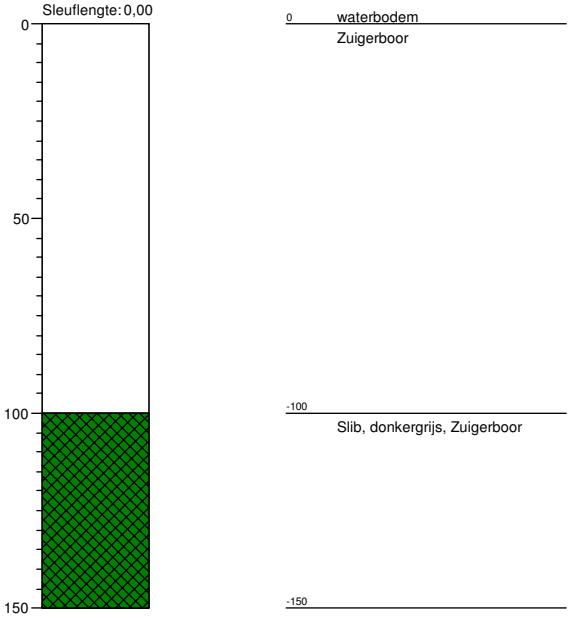
Boring: W074

Sleufbreedte:0,00
Sleuflengte:0,00



Boring: W075

Sleufbreedte:0,00
Sleuflengte:0,00

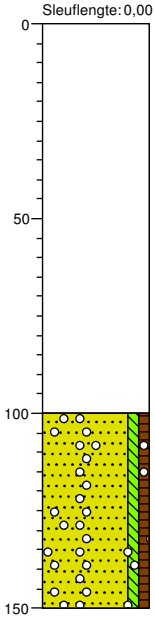


Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W076

Sleufbreedte:0,00
Sleuflengte:0,00



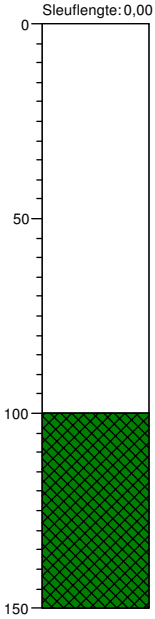
0 waterbodem
Zuigerboor

-100 Zand, zeer grof, zwak siltig, zwak humeus, sporen grind, grijs, Zuigerboor

-150

Boring: W077

Sleufbreedte:0,00
Sleuflengte:0,00



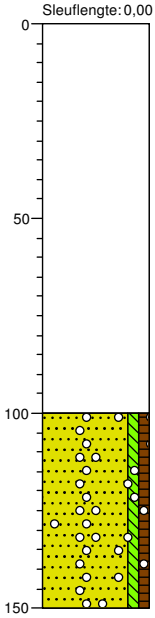
0 waterbodem
Zuigerboor

-100 Slib, donkergrijs, Zuigerboor

-150

Boring: W078

Sleufbreedte:0,00
Sleuflengte:0,00



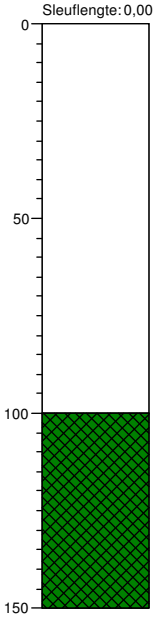
0 waterbodem
Zuigerboor

-100 Zand, matig grof, zwak siltig, zwak humeus, sporen grind, sporen roest, grijs, Zuigerboor

-150

Boring: W079

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem
Zuigerboor

-100 Slib, donkergrijs, Zuigerboor

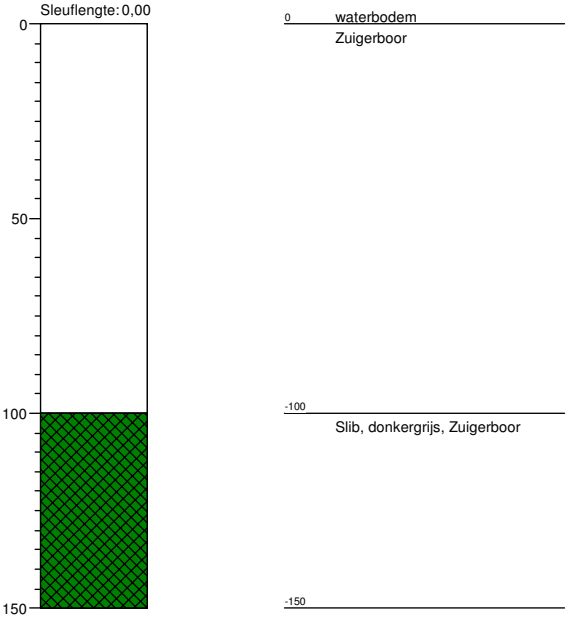
-150

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

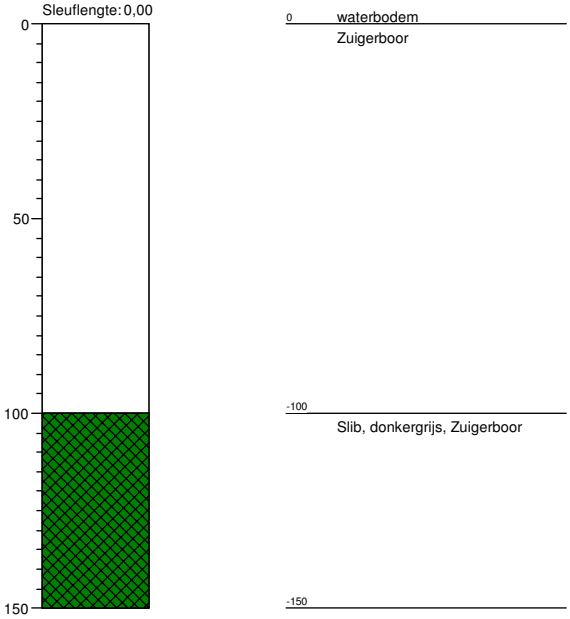
Boring: W079-1

Sleufbreedte:0,00
Sleuflengte:0,00



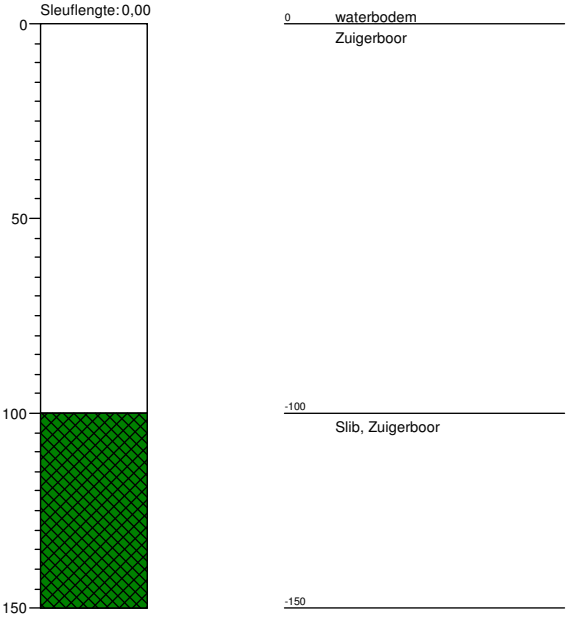
Boring: W079-2

Sleufbreedte:0,00
Sleuflengte:0,00



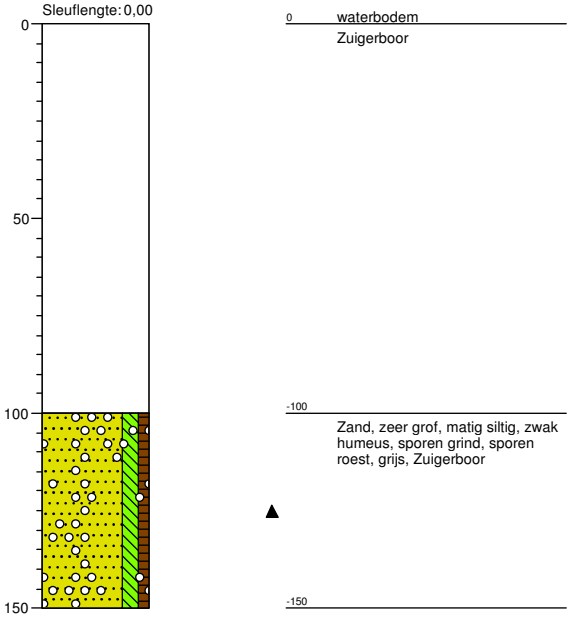
Boring: W079-3

Sleufbreedte:0,00
Sleuflengte:0,00



Boring: W080

Sleufbreedte:0,00
Sleuflengte:0,00

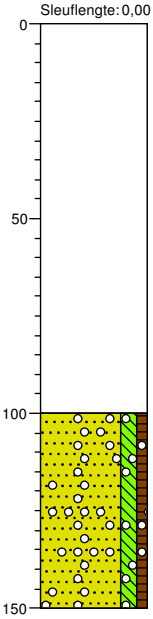


Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W080-1

Sleufbreedte:0,00
Sleuflengte:0,00



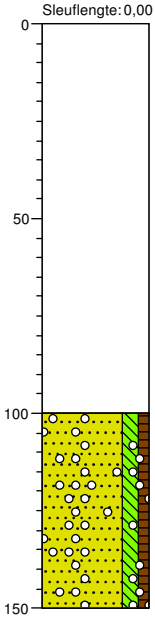
0 waterbodem
Zuigerboor

-100
Zand, zeer grof, matig siltig, zwak humeus, sporen grind, sporen roest, grijs, Zuigerboor

-150

Boring: W080-2

Sleufbreedte:0,00
Sleuflengte:0,00



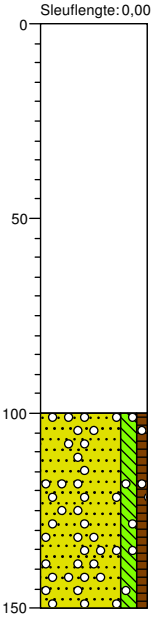
0 waterbodem
Zuigerboor

-100
Zand, zeer grof, matig siltig, zwak humeus, sporen grind, sporen roest, grijs, Zuigerboor

-150

Boring: W080-3

Sleufbreedte:0,00
Sleuflengte:0,00



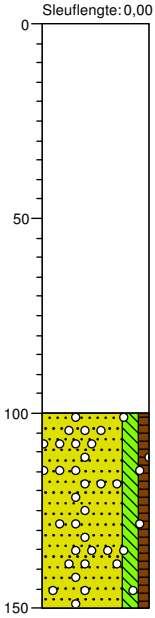
0 waterbodem
Grijs, Zuigerboor

-100
Zand, zeer grof, matig siltig, zwak humeus, sporen grind, sporen roest, grijs, Zuigerboor

-150

Boring: W080-4

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem
Zuigerboor

-100
Zand, zeer grof, matig siltig, zwak humeus, sporen grind, sporen roest, grijs, Zuigerboor

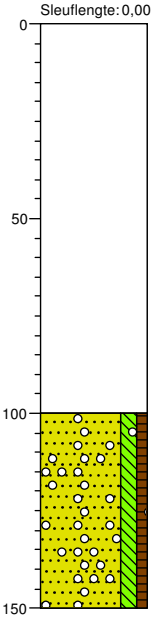
-150

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W080-5

Sleufbreedte:0,00
Sleuflengte:0,00



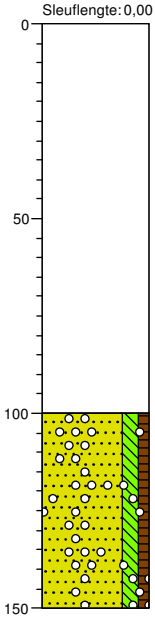
0 waterbodem
Zuigerboor

-100
Zand, zeer grof, matig siltig, zwak humeus, sporen grind, sporen roest, grijs, Zuigerboor

-150

Boring: W080-6

Sleufbreedte:0,00
Sleuflengte:0,00



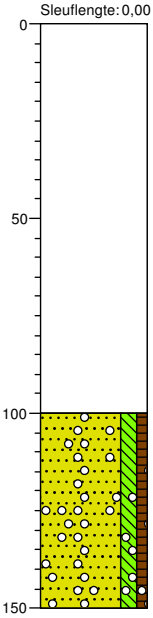
0 waterbodem
Zuigerboor

-100
Zand, zeer grof, matig siltig, zwak humeus, sporen grind, sporen roest, Zuigerboor

-150

Boring: W080-7

Sleufbreedte:0,00
Sleuflengte:0,00



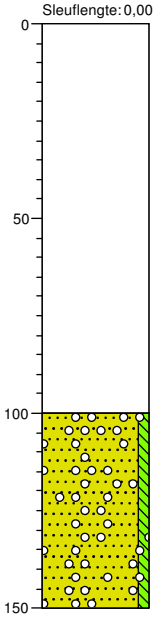
0 waterbodem
Zuigerboor

-100
Zand, zeer grof, matig siltig, zwak humeus, sporen grind, sporen roest, Zuigerboor

-150

Boring: W081

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem
Zuigerboor

-100
Zand, zeer grof, zwak siltig, sporen grind, zwak roesthoudend, oranjebruin, Zuigerboor

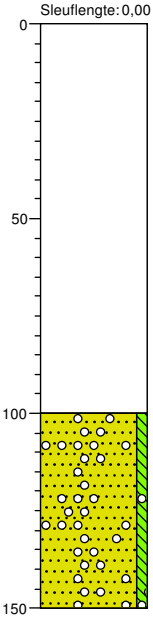
-150

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W082

Sleufbreedte:0,00
Sleuflengte:0,00



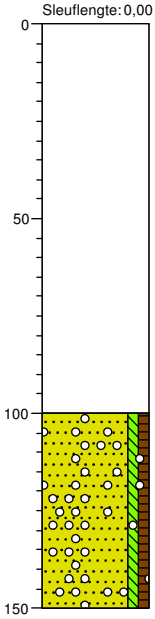
0 waterbodem
Zuigerboor

-100 Zand, zeer grof, zwak siltig, sporen grind, zwak roesthoudend, oranjebruin, Zuigerboor

-150

Boring: W083

Sleufbreedte:0,00
Sleuflengte:0,00



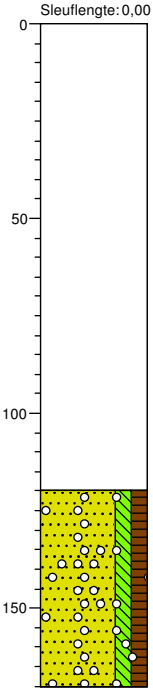
0 waterbodem
Zuigerboor

-100 Zand, matig grof, zwak siltig, zwak humeus, sporen grind, sporen roest, donkergrijs, Zuigerboor

-150

Boring: W084

Sleufbreedte:0,00
Sleuflengte:0,00



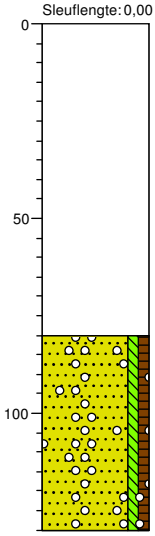
0 waterbodem
Zuigerboor

-120 Zand, matig grof, matig siltig, matig humeus, sporen grind, resten wortels, zwak roesthoudend, donkergrijs, Zuigerboor

-170

Boring: W085

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem
Zuigerboor

-80 Zand, zeer grof, zwak siltig, zwak humeus, sporen grind, zwak roesthoudend, resten wortels, bruinoranje, Zuigerboor

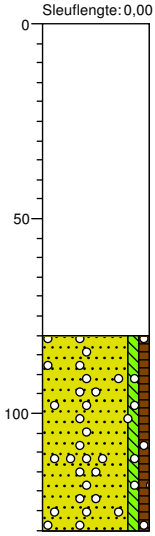
-130

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W086

Sleufbreedte:0,00
Sleuflengte:0,00



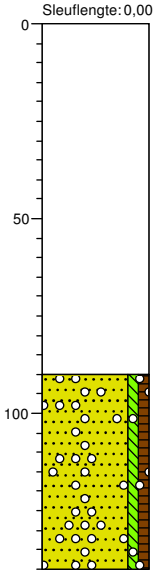
0 waterbodem
Zuigerboor

-80
Zand, matig grof, zwak siltig, zwak humeus, sporen roest, resten wortels, sporen grind, grijs, Zuigerboor

-130

Boring: W087

Sleufbreedte:0,00
Sleuflengte:0,00



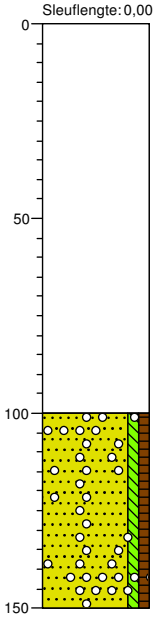
0 waterbodem
Zuigerboor

-90
Zand, zeer grof, zwak siltig, zwak humeus, sporen grind, donkergrijs, Zuigerboor

-140

Boring: W088

Sleufbreedte:0,00
Sleuflengte:0,00



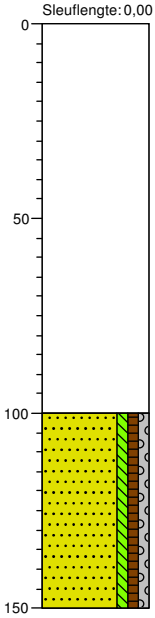
0 waterbodem
Zuigerboor

-100
Zand, zeer grof, zwak siltig, zwak humeus, sporen grind, zwak roesthoudend, grijsbruin, Zuigerboor

-150

Boring: W089

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem
Zuigerboor

-100
Zand, zeer grof, zwak siltig, zwak humeus, zwak grindig, resten wortels, zwak roesthoudend, grijsbruin, Zuigerboor

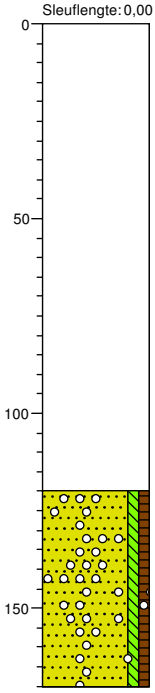
-150

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W090

Sleufbreedte:0,00
Sleuflengte:0,00



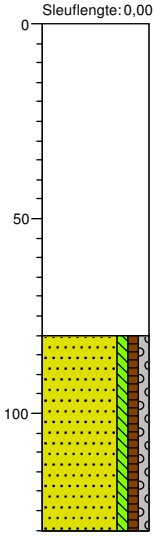
0 waterbodem
Zuigerboor

-120
Zand, uiterst fijn, zwak siltig, zwak humeus, sporen grind, donkergrijs, Zuigerboor

-170

Boring: W091

Sleufbreedte:0,00
Sleuflengte:0,00



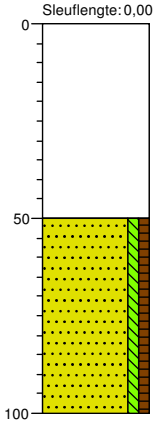
0 waterbodem
Zuigerboor

-80
Zand, zeer grof, zwak siltig, zwak humeus, zwak grindig, grijsbruin, Zuigerboor

-130

Boring: W092

Sleufbreedte:0,00
Sleuflengte:0,00



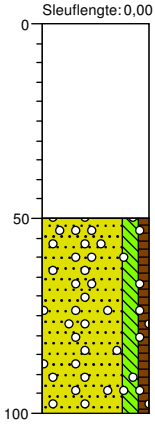
0 waterbodem
Zuigerboor

-50
Zand, zeer grof, zwak siltig, zwak humeus, sporen roest, resten wortels, grijsbruin, Zuigerboor

-100

Boring: W093

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem
Zuigerboor

-50
Zand, matig grof, matig siltig, zwak humeus, sporen grind, zwak roesthoudend, oranjebruin, Zuigerboor

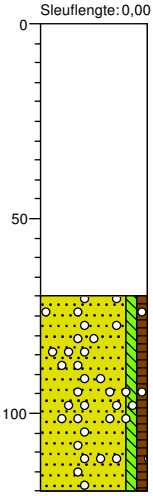
-100

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W094

Sleufbreedte:0,00
Sleuflengte:0,00



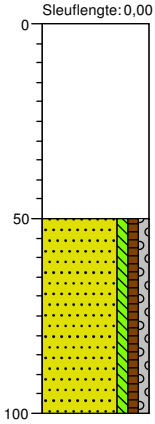
0 waterbodem
Zuigerboor

-70
Zand, matig grof, zwak siltig, zwak humeus, sporen grind, resten wortels, Zuigerboor

-120

Boring: W095

Sleufbreedte:0,00
Sleuflengte:0,00



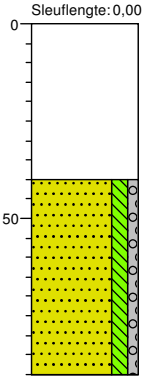
0 waterbodem
Zuigerboor

-50
Zand, matig grof, zwak siltig, zwak humeus, zwak grindig, zwak roesthoudend, resten wortels, donkergrijs, Zuigerboor

-100

Boring: W096

Sleufbreedte:0,00
Sleuflengte:0,00



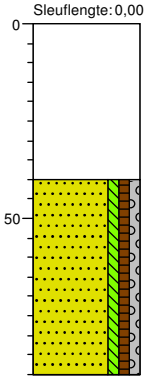
0 waterbodem
Zuigerboor

-40
Zand, matig grof, matig siltig, zwak grindig, sporen roest, resten wortels, grijsbruin, Zuigerboor

-90

Boring: W097

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem
Zuigerboor

-40
Zand, matig grof, zwak siltig, zwak humeus, zwak grindig, zwak roesthoudend, oranjebruin, Zuigerboor

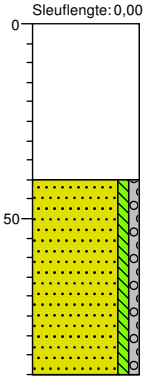
-90

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W098

Sleufbreedte:0,00
Sleuflengte:0,00



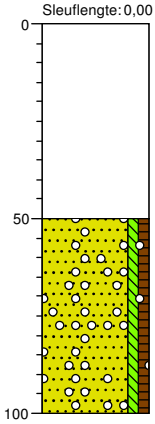
0 waterbodem
Zuigerboor

-40
Zand, matig grof, zwak siltig, zwak grindig, zwak roesthoudend, resten wortels, oranjebruin, Zuigerboor

-90

Boring: W099

Sleufbreedte:0,00
Sleuflengte:0,00



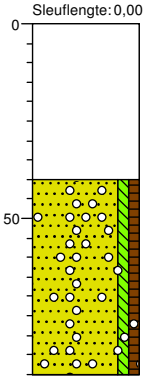
0 waterbodem
Zuigerboor

-50
Zand, matig fijn, zwak siltig, zwak humeus, sporen grind, zwak roesthoudend, oranjebruin, Zuigerboor

-100

Boring: W100

Sleufbreedte:0,00
Sleuflengte:0,00



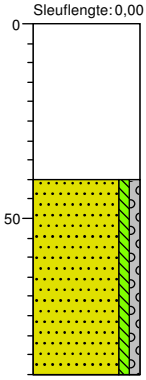
0 waterbodem
Zuigerboor

-40
Zand, matig grof, zwak siltig, zwak humeus, sporen grind, zwak roesthoudend, oranjebruin, Zuigerboor

-90

Boring: W101

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem
Zuigerboor

-40
Zand, zeer grof, zwak siltig, zwak grindig, zwak roesthoudend, resten wortels, oranjebruin, Zuigerboor

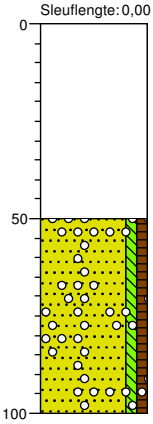
-90

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W102

Sleufbreedte:0,00
Sleuflengte:0,00



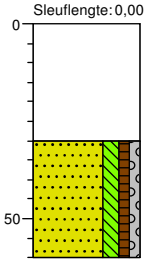
0 waterbodem
Zuigerboor

-50
Zand, matig fijn, zwak siltig, zwak humeus, sporen grind, resten wortels, sporen roest, donkergrijs, Zuigerboor

-100

Boring: W103

Sleufbreedte:0,00
Sleuflengte:0,00



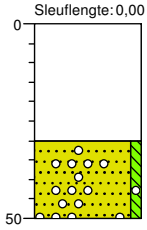
0 waterbodem
Zuigerboor

-30
Zand, matig grof, matig siltig, zwak humeus, zwak grindig, resten wortels, sporen roest, grijsbruin, Zuigerboor

-60

Boring: W104

Sleufbreedte:0,00
Sleuflengte:0,00



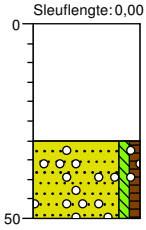
0 waterbodem
Zuigerboor

-30
Zand, matig grof, zwak siltig, sporen grind, sporen roest, grijsbruin, Schep

-50

Boring: W105

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem
Schep

-30
Zand, matig grof, zwak siltig, zwak humeus, sporen grind, sporen roest, resten wortels, donkergrijs, Schep

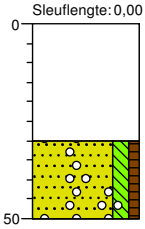
-50

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W106

Sleufbreedte:0,00
Sleuflengte:0,00

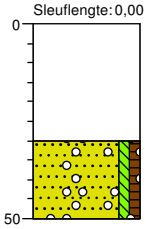


0 waterbodem
Schep

-30
Zand, matig grof, matig siltig, zwak humeus, sporen grind, sporen roest, resten wortels, grijsbruin, Schep
-50

Boring: W107

Sleufbreedte:0,00
Sleuflengte:0,00

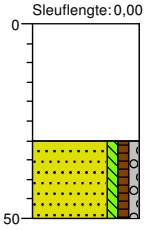


0 waterbodem
Schep

-30
Zand, zeer grof, zwak siltig, zwak humeus, resten wortels, sporen grind, sporen roest, oranjebruin, Schep
-50

Boring: W108

Sleufbreedte:0,00
Sleuflengte:0,00

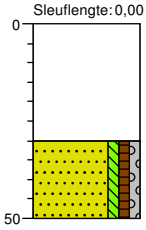


0 waterbodem
Schep

-30
Zand, zeer grof, zwak siltig, zwak humeus, zwak grindig, brokken roest, resten wortels, grijsbruin, Schep
-50

Boring: W109

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem
Schep

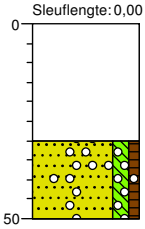
-30
Zand, zeer grof, zwak siltig, zwak humeus, zwak grindig, resten wortels, sporen roest, bruingrijs, Schep
-50

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W110

Sleufbreedte:0,00
Sleuflengte:0,00

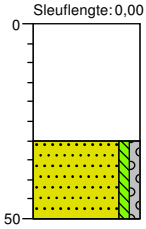


0 waterbodem
Schep

-30
Zand, matig grof, matig siltig, zwak humeus, sporen roest, sporen grind, resten wortels, grijsbruin, Schep
-50

Boring: W111

Sleufbreedte:0,00
Sleuflengte:0,00

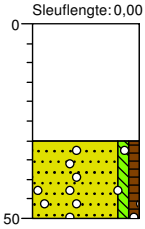


0 waterbodem
Schep

-30
Zand, matig grof, zwak siltig, zwak grindig, sporen hout, resten wortels, sporen roest, bruingrijs, Schep
-50

Boring: W112

Sleufbreedte:0,00
Sleuflengte:0,00

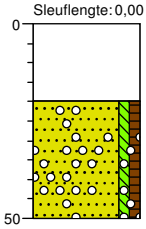


0 waterbodem
Schep

-30
Zand, matig fijn, zwak siltig, zwak humeus, sporen grind, resten wortels, sporen roest, bruin, Schep
-50

Boring: W113

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem
Schep

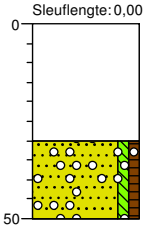
-20
Zand, matig grof, zwak siltig, zwak humeus, sporen grind, resten wortels, sporen roest, bruin, Schep
-50

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W114

Sleufbreedte:0,00
Sleuflengte:0,00

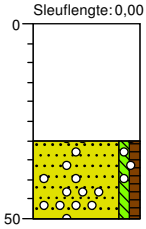


0 waterbodem
Schep

-30
Zand, matig fijn, zwak siltig, zwak humeus, resten wortels, sporen grind, sporen roest, oranjebruin, Schep
-50

Boring: W115

Sleufbreedte:0,00
Sleuflengte:0,00

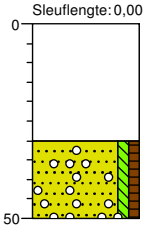


0 waterbodem
Schep

-30
Zand, matig fijn, zwak siltig, zwak humeus, sporen grind, resten wortels, zwak roesthoudend, oranjebruin, Schep
-50

Boring: W116

Sleufbreedte:0,00
Sleuflengte:0,00

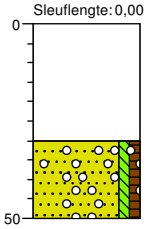


0 waterbodem
Schep

-30
Zand, matig grof, zwak siltig, zwak humeus, sporen roest, sporen grind, resten wortels, oranjebruin, Schep
-50

Boring: W117

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem
Schep

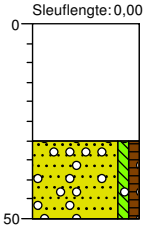
-30
Zand, matig grof, zwak siltig, zwak humeus, zwak roesthoudend, sporen grind, resten wortels, oranjebruin, Schep
-50

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W118

Sleufbreedte:0,00
Sleuflengte:0,00

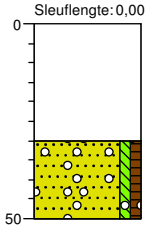


0 waterbodem
Schep

-30
Zand, matig grof, zwak siltig, zwak humeus, zwak roesthoudend, resten wortels, sporen grind, oranjebruin, Schep
-50

Boring: W119

Sleufbreedte:0,00
Sleuflengte:0,00

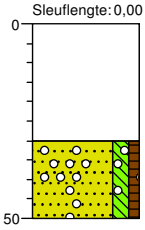


0 waterbodem
Schep

-30
Zand, matig grof, zwak siltig, zwak humeus, resten wortels, sporen grind, zwak roesthoudend, oranjebruin, Schep
-50

Boring: W120

Sleufbreedte:0,00
Sleuflengte:0,00

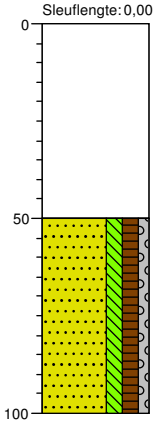


0 waterbodem
Schep

-30
Zand, matig grof, matig siltig, zwak humeus, resten wortels, sporen grind, zwak roesthoudend, bruinoranje, Schep
-50

Boring: W121

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem
Schep

-50
Zand, matig fijn, matig siltig, matig humeus, zwak grindig, resten wortels, sporen roest, donkergrijs, Schep

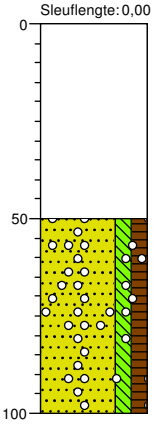
-100

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W122

Sleufbreedte:0,00
Sleuflengte:0,00



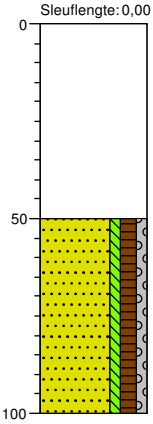
0 waterbodem
Schep

-50
Zand, matig grof, matig siltig, matig humeus, sporen grind, sporen roest, resten wortels, donkergrijs, Schep

-100

Boring: W123

Sleufbreedte:0,00
Sleuflengte:0,00



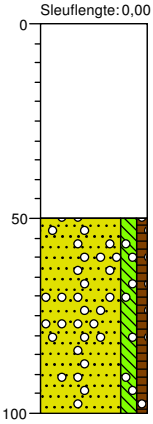
0 waterbodem
Schep

-50
Zand, matig grof, zwak siltig, matig humeus, zwak grindig, zwak roesthoudend, resten wortels, donkergrijs, Schep

-100

Boring: W124

Sleufbreedte:0,00
Sleuflengte:0,00



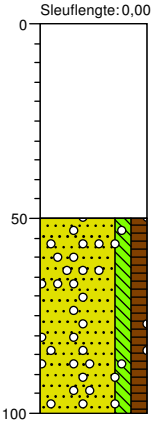
0 waterbodem
Schep

-50
Zand, matig fijn, matig siltig, zwak humeus, sporen roest, sporen grind, resten wortels, donkergrijs, Schep

-100

Boring: W125

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem
Schep

-50
Zand, matig grof, matig siltig, matig humeus, sporen roest, sporen grind, zwak wortelhoudend, donkergrijs, Schep

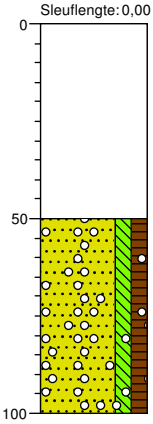
-100

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W126

Sleufbreedte:0,00
Sleuflengte:0,00



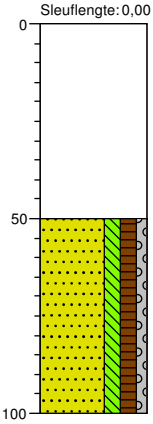
0 waterbodem
Schep

-50
Zand, matig grof, matig siltig, matig humeus, sporen roest, sporen grind, resten wortels, donkergrijs, Edelmanboor

-100

Boring: W127

Sleufbreedte:0,00
Sleuflengte:0,00



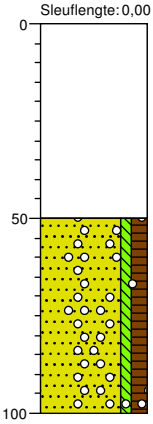
0 waterbodem
Edelmanboor

-50
Zand, matig fijn, matig siltig, matig humeus, zwak grindig, zwak roesthoudend, resten wortels, donkergrijs, Edelmanboor

-100

Boring: W128

Sleufbreedte:0,00
Sleuflengte:0,00



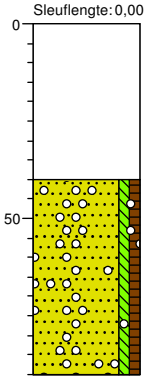
0 waterbodem
Edelmanboor

-50
Zand, matig grof, zwak siltig, matig humeus, zwak roesthoudend, sporen grind, resten wortels, donkerbruin, Edelmanboor

-100

Boring: W129

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem
Edelmanboor

-40
Zand, matig grof, zwak siltig, zwak humeus, sporen grind, resten wortels, donkergrijs, Edelmanboor

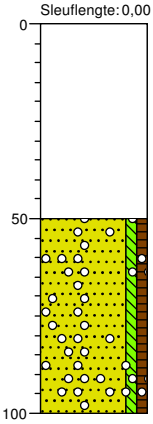
-90

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W130

Sleufbreedte:0,00
Sleuflengte:0,00



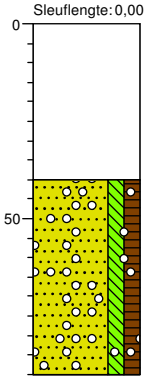
0 waterbodem
Edelmanboor

-50
Zand, matig grof, zwak siltig, zwak humeus, sporen grind, resten wortels, sporen roest, donkergrijs, Edelmanboor

-100

Boring: W131

Sleufbreedte:0,00
Sleuflengte:0,00



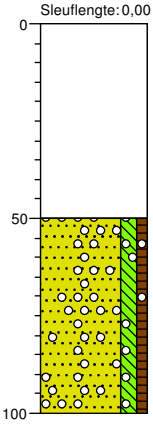
0 waterbodem
Edelmanboor

-40
Zand, matig grof, matig siltig, matig humeus, zwak roesthoudend, resten wortels, sporen grind, donkergrijs, Edelmanboor

-90

Boring: W132

Sleufbreedte:0,00
Sleuflengte:0,00



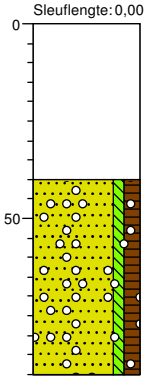
0 waterbodem
Edelmanboor

-50
Zand, matig grof, matig siltig, zwak humeus, zwak roesthoudend, resten wortels, sporen grind, donkergrijs, Edelmanboor

-100

Boring: W133

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem
Edelmanboor

-40
Zand, matig grof, zwak siltig, matig humeus, resten wortels, sporen grind, sporen roest, donkergrijs, Edelmanboor

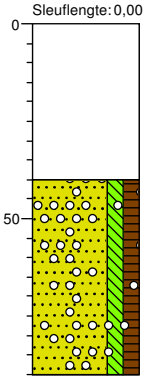
-90

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W134

Sleufbreedte:0,00
Sleuflengte:0,00



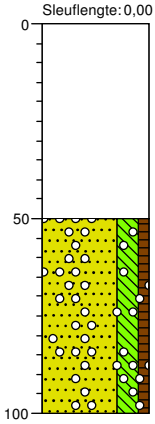
0 waterbodem
Edelmanboor

-40
Zand, matig grof, matig siltig, matig humeus, sporen grind, resten wortels, zwak roesthoudend, donkergrijs, Edelmanboor

-90

Boring: W135

Sleufbreedte:0,00
Sleuflengte:0,00



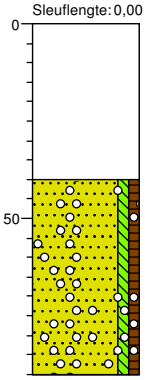
0 waterbodem
Edelmanboor

-50
Zand, zeer grof, sterk siltig, zwak humeus, sporen roest, sporen grind, resten wortels, donkergrijs, Edelmanboor

-100

Boring: W136

Sleufbreedte:0,00
Sleuflengte:0,00



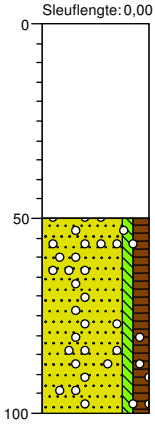
0 waterbodem
Edelmanboor

-40
Zand, matig grof, zwak siltig, zwak humeus, sporen roest, sporen grind, resten wortels, donkergrijs, Edelmanboor

-90

Boring: W137

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem
Edelmanboor

-50
Zand, matig grof, zwak siltig, matig humeus, resten wortels, sporen grind, sporen roest, donkergrijs, Edelmanboor

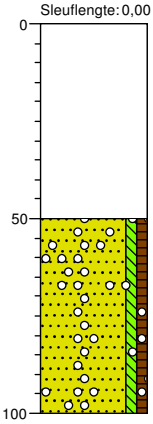
-100

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W138

Sleufbreedte:0,00
Sleuflengte:0,00



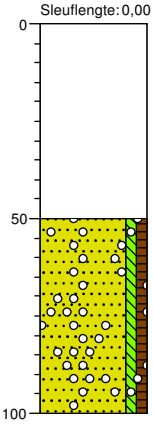
0 waterbodem
Edelmanboor

-50
Zand, matig grof, zwak siltig, zwak humeus, sporen grind, resten wortels, brokken roest, donkergrijs, Edelmanboor

-100

Boring: W139

Sleufbreedte:0,00
Sleuflengte:0,00



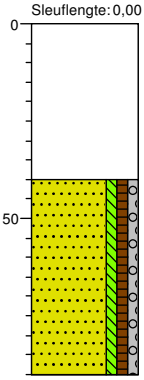
0 waterbodem
Edelmanboor

-50
Zand, matig grof, zwak siltig, zwak humeus, sporen grind, sporen roest, resten wortels, donkergrijs, Edelmanboor

-100

Boring: W140

Sleufbreedte:0,00
Sleuflengte:0,00



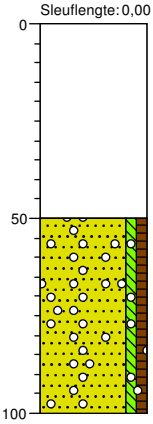
0 waterbodem
Edelmanboor

-40
Zand, matig grof, zwak siltig, zwak humeus, zwak grindig, resten wortels, zwak roesthoudend, grijsbruin, Edelmanboor

-90

Boring: W141

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem
Edelmanboor

-50
Zand, matig grof, zwak siltig, zwak humeus, sporen grind, resten wortels, zwak roesthoudend, grijsbruin, Edelmanboor

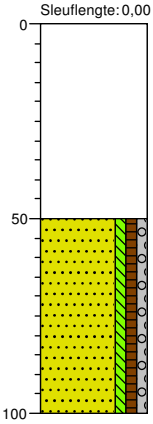
-100

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W142

Sleufbreedte:0,00
Sleuflengte:0,00



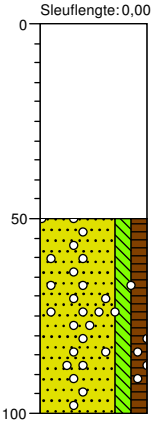
0 waterbodem
Edelmanboor

-50
Zand, matig grof, zwak siltig, zwak humeus, zwak grindig, sporen roest, resten wortels, donkergrijs, Edelmanboor

-100

Boring: W143

Sleufbreedte:0,00
Sleuflengte:0,00



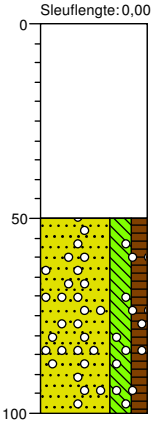
0 waterbodem
Edelmanboor

-50
Zand, matig grof, matig siltig, matig humeus, sporen grind, resten wortels, sporen roest, donkergrijs, Edelmanboor

-100

Boring: W144

Sleufbreedte:0,00
Sleuflengte:0,00



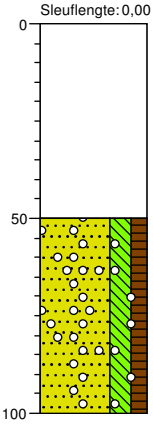
0 waterbodem
Edelmanboor

-50
Zand, matig grof, sterk siltig, matig humeus, sporen grind, sporen roest, resten wortels, donkergrijs, Edelmanboor

-100

Boring: W145

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem
Edelmanboor

-50
Zand, matig grof, sterk siltig, matig humeus, sporen grind, resten wortels, sporen roest, donkergrijs, Edelmanboor

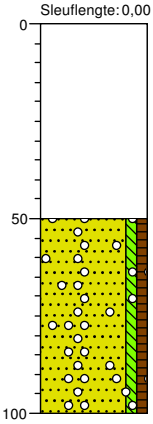
-100

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W146

Sleufbreedte:0,00
Sleuflengte:0,00



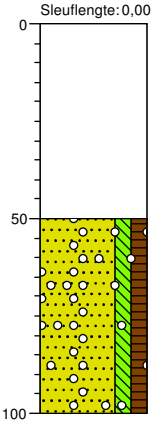
0 waterbodem
Edelmanboor

-50
Zand, matig grof, zwak siltig, zwak humeus, sporen grind, sporen roest, resten wortels, grijs, Edelmanboor

-100

Boring: W147

Sleufbreedte:0,00
Sleuflengte:0,00



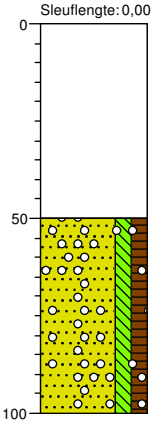
0 waterbodem
Edelmanboor

-50
Zand, matig fijn, matig siltig, matig humeus, sporen roest, sporen grind, resten wortels, donkergrijs, Edelmanboor

-100

Boring: W148

Sleufbreedte:0,00
Sleuflengte:0,00



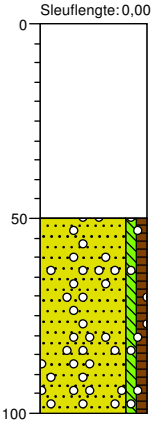
0 waterbodem
Edelmanboor

-50
Zand, matig grof, matig siltig, matig humeus, sporen grind, resten wortels, sporen roest, donkergrijs, Edelmanboor

-100

Boring: W149

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem
Edelmanboor

-50
Zand, matig grof, zwak siltig, zwak humeus, sporen grind, resten wortels, sporen roest, bruingrijs, Edelmanboor

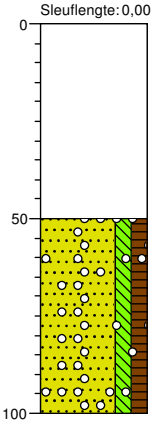
-100

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W150

Sleufbreedte:0,00
Sleuflengte:0,00



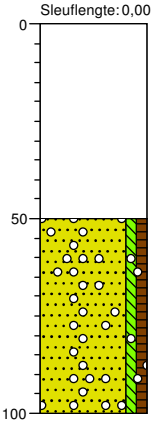
0 waterbodem
Edelmanboor

-50
Zand, matig fijn, matig siltig, matig humeus, resten wortels, sporen grind, sporen roest, donkergrijs, Edelmanboor

-100

Boring: W151

Sleufbreedte:0,00
Sleuflengte:0,00



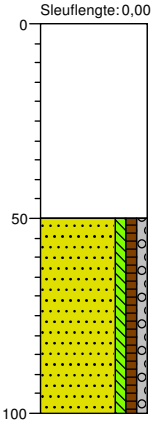
0 waterbodem
Edelmanboor

-50
Zand, matig grof, zwak siltig, zwak humeus, zwak roesthoudend, resten wortels, sporen grind, donkergrijs, Edelmanboor

-100

Boring: W152

Sleufbreedte:0,00
Sleuflengte:0,00



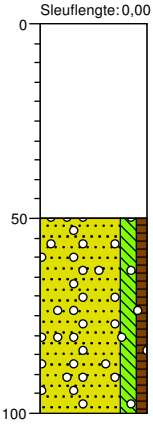
0 waterbodem
Edelmanboor

-50
Zand, matig grof, zwak siltig, zwak humeus, zwak grindig, zwak roesthoudend, resten wortels, oranjebruin, Edelmanboor

-100

Boring: W153

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem
Edelmanboor

-50
Zand, matig fijn, matig siltig, zwak humeus, sporen grind, resten wortels, zwak roesthoudend, grijsbruin, Zuigerboor

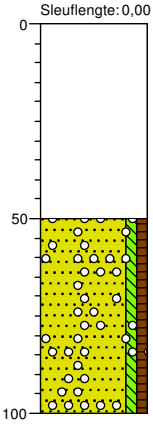
-100

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W154

Sleufbreedte:0,00
Sleuflengte:0,00



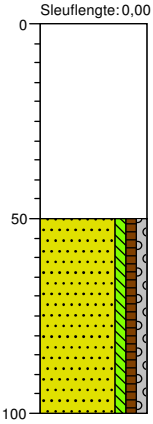
0 waterbodem
Zuigerboor

-50
Zand, matig grof, zwak siltig, zwak humeus, sporen grind, grijs, Zuigerboor

-100

Boring: W155

Sleufbreedte:0,00
Sleuflengte:0,00



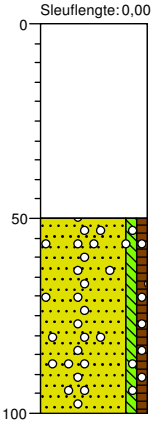
0 waterbodem
Zuigerboor

-50
Zand, matig grof, zwak siltig, zwak humeus, zwak grindig, zwak roesthoudend, resten wortels, donkergrijs, Zuigerboor

-100

Boring: W156

Sleufbreedte:0,00
Sleuflengte:0,00



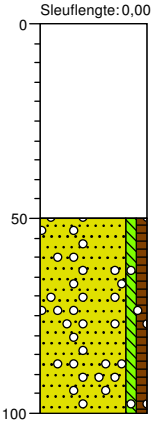
0 waterbodem
Zuigerboor

-50
Zand, matig grof, zwak siltig, zwak humeus, sporen grind, resten wortels, zwak roesthoudend, grijs, Zuigerboor

-100

Boring: W157

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem
Zuigerboor

-50
Zand, matig grof, zwak siltig, zwak humeus, sporen roest, sporen grind, resten wortels, grijs, Zuigerboor

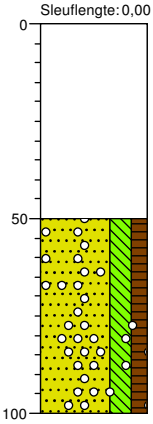
-100

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W158

Sleufbreedte:0,00
Sleuflengte:0,00



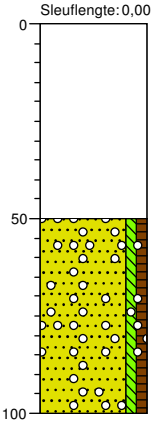
0 waterbodem
Zuigerboor

-50
Zand, matig grof, sterk siltig, matig humeus, sporen grind, sporen roest, resten wortels, donkerbruin, Zuigerboor

-100

Boring: W159

Sleufbreedte:0,00
Sleuflengte:0,00



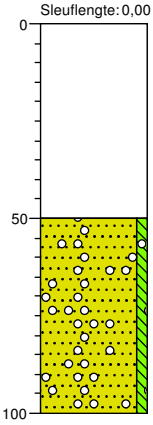
0 waterbodem
Zuigerboor

-50
Zand, matig grof, zwak siltig, zwak humeus, sporen grind, resten wortels, zwak roesthoudend, donkergrijs, Zuigerboor

-100

Boring: W160

Sleufbreedte:0,00
Sleuflengte:0,00



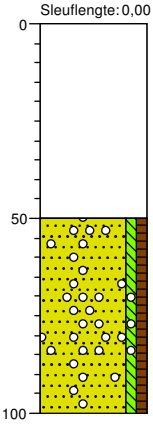
0 waterbodem
Zuigerboor

-50
Zand, matig grof, zwak siltig, sporen grind, resten wortels, zwak roesthoudend, donkergrijs, Zuigerboor

-100

Boring: W161

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem
Zuigerboor

-50
Zand, matig fijn, zwak siltig, zwak humeus, sporen grind, resten wortels, zwak roesthoudend, grijs, Zuigerboor

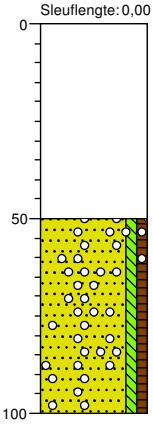
-100

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W162

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem

Zuigerboor

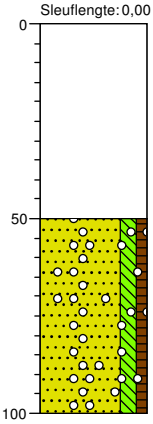
-50

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

-100

Boring: W163

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem

Zuigerboor

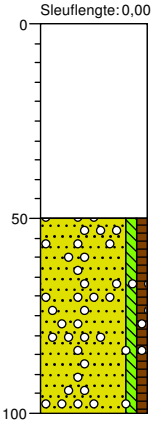
-50

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

-100

Boring: W164

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem

Zuigerboor

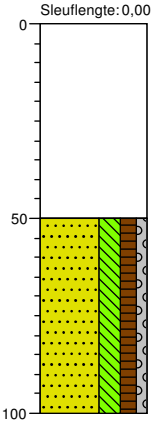
-50

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

-100

Boring: W165

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem

Zuigerboor

-50

Zand, zeer grof, sterk siltig, matig humeus, zwak grindig, sporen roest, resten wortels, donkergrijs, Zuigerboor

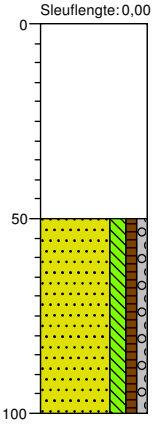
-100

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W166

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem

Zuigerboor

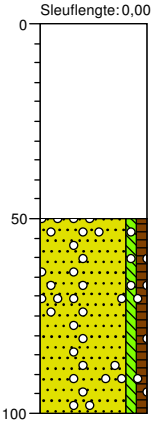
-50

Zand, zeer grof, matig siltig, zwak humeus, zwak grindig, zwak roesthoudend, resten wortels, grijs, Zuigerboor

-100

Boring: W167

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem

Zuigerboor

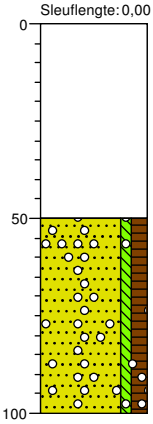
-50

Zand, matig fijn, zwak siltig, zwak humeus, zwak roesthoudend, resten wortels, sporen grind, oranjebruin, Zuigerboor

-100

Boring: W168

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem

Zuigerboor

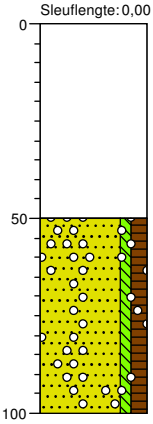
-50

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

-100

Boring: W169

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem

Zuigerboor

-50

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

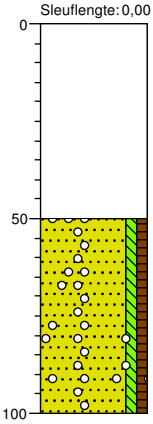
-100

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W170

Sleufbreedte:0,00
Sleuflengte:0,00



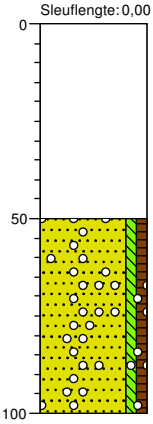
0 waterbodem
Zuigerboor

-50
Zand, matig grof, zwak siltig, zwak humeus, sporen grind, resten wortels, grijs, Zuigerboor

-100

Boring: W171

Sleufbreedte:0,00
Sleuflengte:0,00



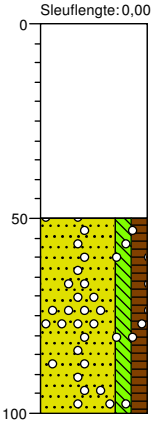
0 waterbodem
Zuigerboor

-50
Zand, matig grof, zwak siltig, zwak humeus, sporen grind, resten wortels, sporen roest, grijs, Zuigerboor

-100

Boring: W172

Sleufbreedte:0,00
Sleuflengte:0,00



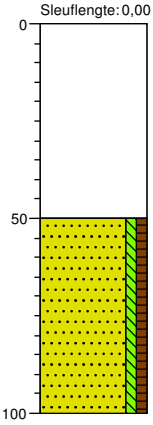
0 waterbodem
Zuigerboor

-50
Zand, matig fijn, matig siltig, matig humeus, sporen grind, grijs, Zuigerboor

-100

Boring: W173

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem
Zuigerboor

-50
Zand, matig fijn, zwak siltig, zwak humeus, grijs, Zuigerboor

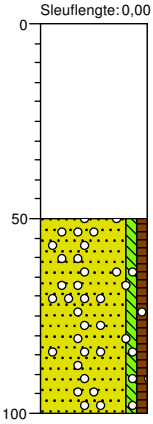
-100

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W174

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem

Zuigerboor

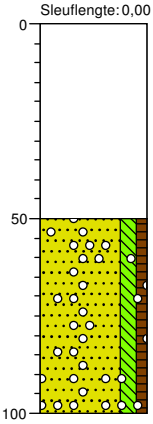
-50

Zand, matig fijn, zwak siltig, zwak humeus, sporen grind, sporen roest, resten wortels, lichtgrijs, Zuigerboor

-100

Boring: W175

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem

Zuigerboor

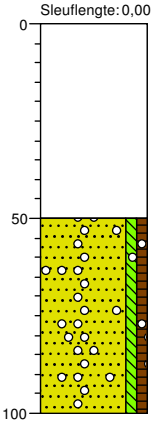
-50

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

-100

Boring: W176

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem

Zuigerboor

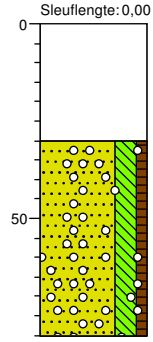
-50

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

-100

Boring: W177

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem

Zuigerboor

-30

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

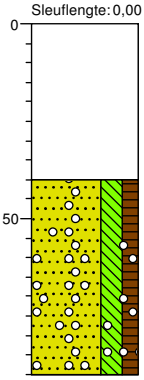
-80

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W178

Sleufbreedte:0,00
Sleuflengte:0,00



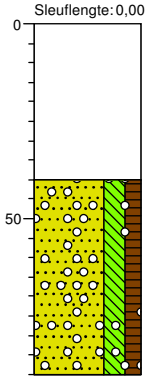
0 waterbodem
Zuigerboor

-40
Zand, matig fijn, sterk siltig, matig humeus, sporen roest, resten wortels, sporen grind, grijs, Edelmanboor

-90

Boring: W179

Sleufbreedte:0,00
Sleuflengte:0,00



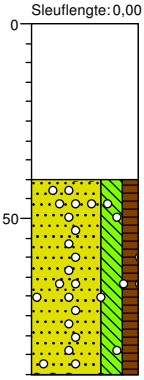
0 waterbodem
Edelmanboor

-40
Zand, matig fijn, sterk siltig, matig humeus, brokken grind, resten wortels, sporen roest, donkergrijs, Edelmanboor

-90

Boring: W180

Sleufbreedte:0,00
Sleuflengte:0,00



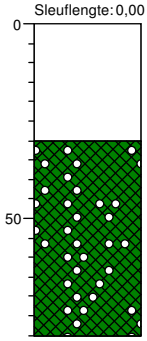
0 waterbodem
Edelmanboor

-40
Zand, matig fijn, sterk siltig, matig humeus, sporen grind, resten wortels, sporen roest, grijs, Edelmanboor

-90

Boring: W181

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem
Edelmanboor

-30
Slib, resten wortels, sporen grind, donkergrijs, Edelmanboor

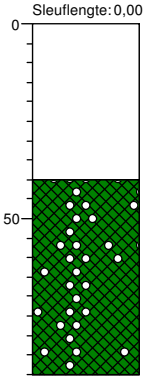
-80

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W182

Sleufbreedte:0,00
Sleuflengte:0,00



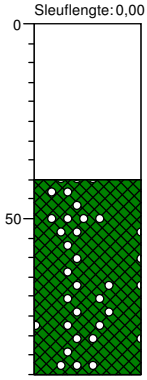
0 waterbodem
Edelmanboor

-40
Slib, resten wortels, sporen grind, zwak roesthoudend, donkergrijs, Edelmanboor

-90

Boring: W183

Sleufbreedte:0,00
Sleuflengte:0,00



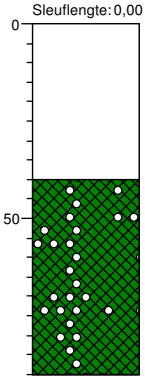
0 waterbodem
Edelmanboor

-40
Slib, resten wortels, sporen grind, sporen roest, grijsbruin, Edelmanboor

-90

Boring: W184

Sleufbreedte:0,00
Sleuflengte:0,00



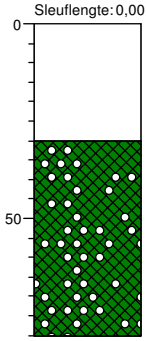
0 waterbodem
Edelmanboor

-40
Slib, sporen grind, resten wortels, sporen roest, grijsbruin, Edelmanboor

-90

Boring: W185

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem
Edelmanboor

-30
Slib, resten wortels, sporen grind, sporen roest, grijsbruin, Edelmanboor

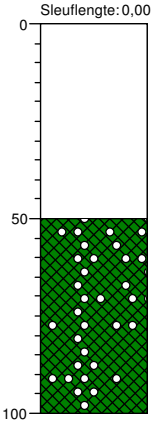
-80

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W186

Sleufbreedte:0,00
Sleuflengte:0,00



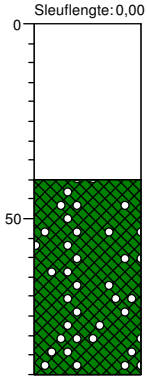
0 waterbodem
Edelmanboor

-50
Slib, resten wortels, sporen grind, zwak roesthoudend, donkergrijs, Edelmanboor

-100

Boring: W187

Sleufbreedte:0,00
Sleuflengte:0,00



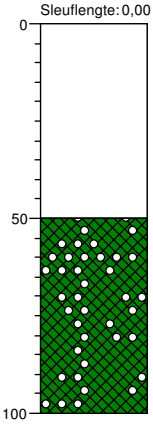
0 waterbodem
Edelmanboor

-40
Slib, resten wortels, sporen grind, zwak roesthoudend, donkergrijs, Edelmanboor

-90

Boring: W188

Sleufbreedte:0,00
Sleuflengte:0,00



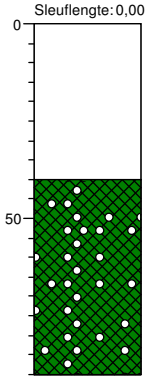
0 waterbodem
Edelmanboor

-50
Slib, resten wortels, sporen grind, zwak roesthoudend, grijs, Edelmanboor

-100

Boring: W189

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem
Edelmanboor

-40
Slib, resten wortels, sporen grind, sporen roest, donkergrijs, Edelmanboor

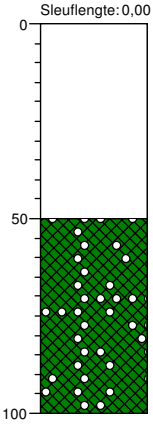
-90

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W190

Sleufbreedte:0,00
Sleuflengte:0,00



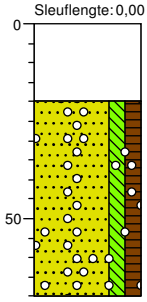
0 waterbodem
Edelmanboor

-50
Slib, sporen grind, resten wortels, zwak roesthoudend, donkergrijs, Edelmanboor

-100

Boring: W191

Sleufbreedte:0,00
Sleuflengte:0,00



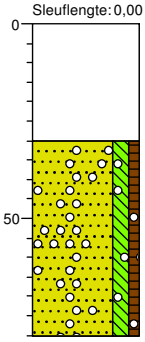
0 waterbodem
Edelmanboor

-20
Zand, matig fijn, matig siltig, matig humeus, sporen roest, resten wortels, sporen grind, lichtgrijs, Edelmanboor

-70

Boring: W192

Sleufbreedte:0,00
Sleuflengte:0,00



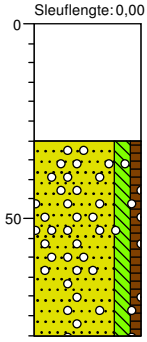
0 waterbodem
Edelmanboor

-30
Zand, matig fijn, matig siltig, zwak humeus, resten wortels, sporen grind, sporen roest, lichtgrijs, Edelmanboor

-80

Boring: W193

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem
Edelmanboor

-30
Zand, matig fijn, matig siltig, zwak humeus, resten wortels, sporen roest, sporen grind, grijs, Edelmanboor

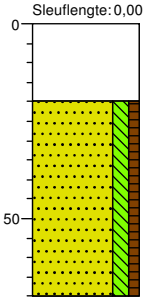
-80

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W194

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem

Edelmanboor

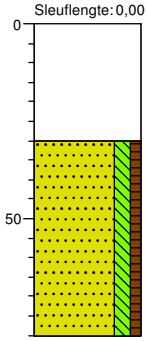
-20

Zand, matig fijn, matig siltig, zwak humeus, sporen roest, resten wortels, lichtgrijs, Edelmanboor

-70

Boring: W195

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem

Edelmanboor

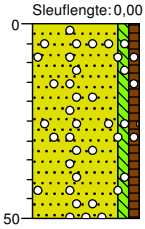
-30

Zand, matig fijn, matig siltig, zwak humeus, resten wortels, lichtgrijs, Edelmanboor

-80

Boring: W196

Sleufbreedte:0,00
Sleuflengte:0,00



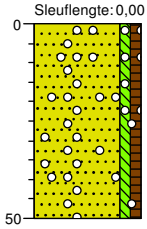
0 waterbodem

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

-50

Boring: W197

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem

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

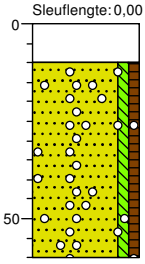
-50

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W198

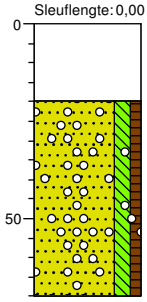
Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem
Edelmanboor
-10
Zand, zeer grof, zwak siltig, zwak humeus, sporen grind, resten wortels, grijs, Edelmanboor
-60

Boring: W199

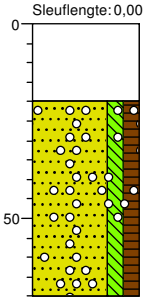
Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem
Edelmanboor
-20
Zand, matig grof, matig siltig, zwak humeus, sporen grind, sporen roest, grijs, Edelmanboor
-70

Boring: W200

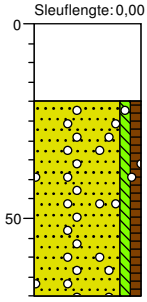
Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem
Edelmanboor
-20
Zand, matig grof, matig siltig, matig humeus, resten wortels, sporen grind, sporen roest, grijs, Edelmanboor
-70

Boring: W201

Sleufbreedte:0,00
Sleuflengte:0,00



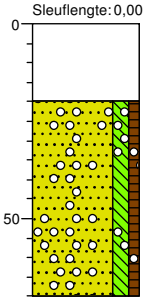
0 waterbodem
Edelmanboor
-20
Zand, matig grof, zwak siltig, zwak humeus, resten wortels, sporen grind, zwak roesthoudend, grijs, Edelmanboor
-70

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W202

Sleufbreedte:0,00
Sleuflengte:0,00



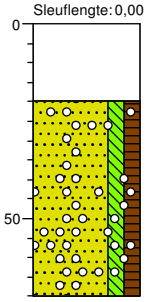
0 waterbodem
Edelmanboor

-20
Zand, matig grof, matig siltig, zwak humeus, sporen grind, resten wortels, sporen roest, grijs, Edelmanboor

-70

Boring: W203

Sleufbreedte:0,00
Sleuflengte:0,00



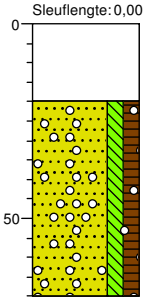
0 waterbodem
Edelmanboor

-20
Zand, matig grof, matig siltig, matig humeus, sporen grind, resten wortels, zwak roesthoudend, grijs, Edelmanboor

-70

Boring: W204

Sleufbreedte:0,00
Sleuflengte:0,00



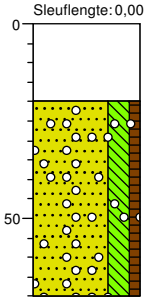
0 waterbodem
Edelmanboor

-20
Zand, matig grof, matig siltig, matig humeus, resten wortels, sporen grind, sporen roest, grijsbruin, Edelmanboor

-70

Boring: W205

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem
Edelmanboor

-20
Zand, matig grof, sterk siltig, zwak humeus, resten wortels, sporen grind, zwak roesthoudend, bruingrijs, Edelmanboor

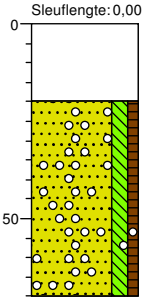
-70

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W206

Sleufbreedte:0,00
Sleuflengte:0,00



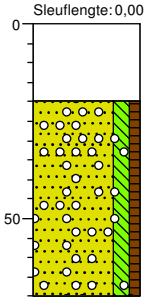
0 waterbodem
Edelmanboor

-20
Zand, matig fijn, matig siltig, zwak humeus, sporen grind, resten wortels, sporen roest, grijsbruin, Edelmanboor

-70

Boring: W207

Sleufbreedte:0,00
Sleuflengte:0,00



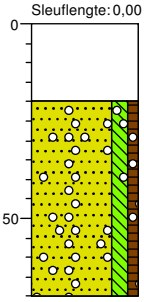
0 waterbodem
Edelmanboor

-20
Zand, matig grof, matig siltig, zwak humeus, sporen grind, resten wortels, sporen roest, grijsbruin, Edelmanboor

-70

Boring: W208

Sleufbreedte:0,00
Sleuflengte:0,00



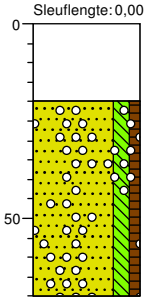
0 waterbodem
Edelmanboor

-20
Zand, matig fijn, matig siltig, zwak humeus, resten wortels, sporen grind, sporen roest, grijsbruin, Edelmanboor

-70

Boring: W209

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem
Edelmanboor

-20
Zand, matig grof, matig siltig, zwak humeus, sporen grind, resten wortels, zwak roesthoudend, grijsbruin, Edelmanboor

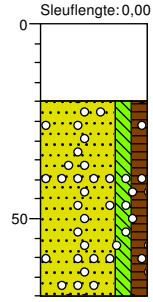
-70

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W210

Sleufbreedte:0,00
Sleuflengte:0,00



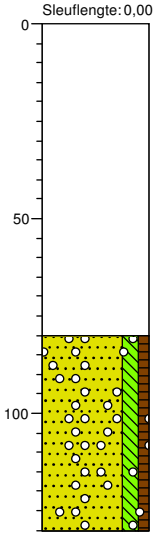
0 waterbodem
Edelmanboor

-20
Zand, matig grof, matig siltig, matig humeus, resten wortels, sporen grind, sporen roest, grijsbruin, Edelmanboor

-70

Boring: W211

Sleufbreedte:0,00
Sleuflengte:0,00



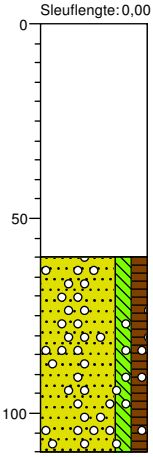
0 waterbodem
Zuigerboor

-80
Zand, matig grof, matig siltig, zwak humeus, resten wortels, sporen grind, sporen roest, donkergrijs, Zuigerboor

-130

Boring: W212

Sleufbreedte:0,00
Sleuflengte:0,00



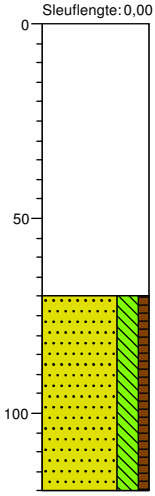
0 waterbodem
Zuigerboor

-60
Zand, matig grof, matig siltig, matig humeus, sporen grind, donker, Zuigerboor

-110

Boring: W213

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem
Zuigerboor

-70
Zand, matig grof, sterk siltig, zwak humeus, donkergrijs, Zuigerboor

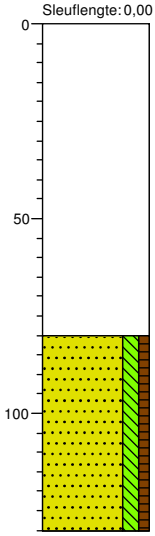
-120

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W214

Sleufbreedte:0,00
Sleuflengte:0,00



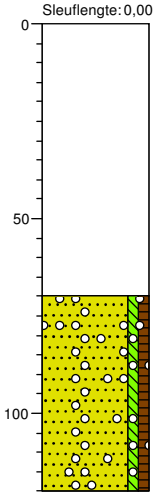
0 waterbodem
Zuigerboor

-80
Zand, matig grof, matig siltig, zwak humeus, donkergrijs, Zuigerboor

-130

Boring: W215

Sleufbreedte:0,00
Sleuflengte:0,00



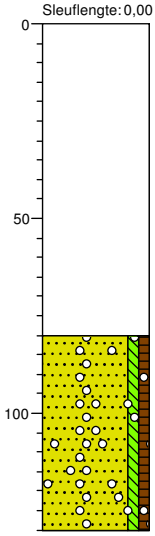
0 waterbodem
Zuigerboor

-70
Zand, matig grof, zwak siltig, zwak humeus, sporen roest, resten wortels, sporen grind, grijsbruin, Zuigerboor

-120

Boring: W216

Sleufbreedte:0,00
Sleuflengte:0,00



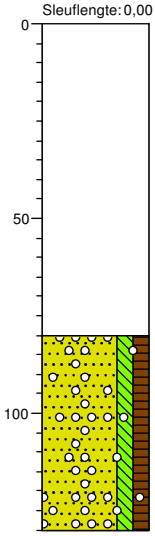
0 waterbodem
Zuigerboor

-80
Zand, matig fijn, zwak siltig, zwak humeus, sporen grind, grijs, Zuigerboor

-130

Boring: W217

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem
Zuigerboor

-80
Zand, matig grof, matig siltig, matig humeus, resten wortels, sporen grind, sporen roest, donkergrijs, Zuigerboor

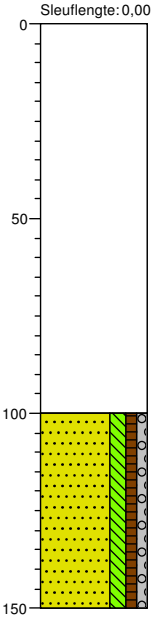
-130

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W218

Sleufbreedte:0,00
Sleuflengte:0,00



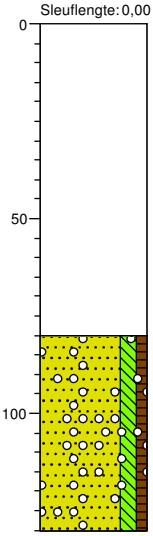
0 waterbodem
Zuigerboor

-100
Zand, matig grof, matig siltig, zwak humeus, zwak grindig, resten wortels, sporen roest, donkergrijs, Zuigerboor

-150

Boring: W219

Sleufbreedte:0,00
Sleuflengte:0,00



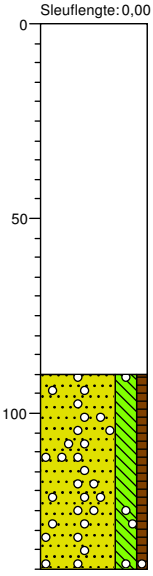
0 waterbodem
Zuigerboor

-80
Zand, matig grof, matig siltig, zwak humeus, sporen grind, sporen roest, resten wortels, donkergrijs, Zuigerboor

-130

Boring: W220

Sleufbreedte:0,00
Sleuflengte:0,00



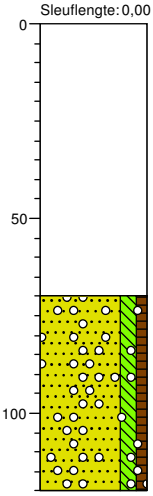
0 waterbodem
Zuigerboor

-90
Zand, matig grof, sterk siltig, zwak humeus, sporen grind, sporen roest, sporen wortels, grijs, Zuigerboor

-140

Boring: W221

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem
Zuigerboor

-70
Zand, matig fijn, matig siltig, zwak humeus, sporen grind, bruingrijs, Zuigerboor

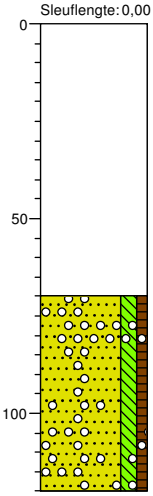
-120

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W222

Sleufbreedte:0,00
Sleuflengte:0,00



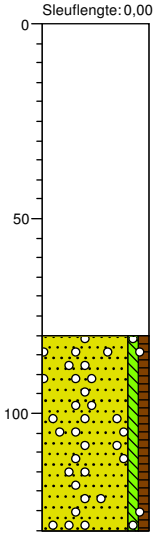
0 waterbodem
Zuigerboor

-70
Zand, matig grof, matig siltig, zwak humeus, sporen grind, sporen roest, grijs, Zuigerboor

-120

Boring: W223

Sleufbreedte:0,00
Sleuflengte:0,00



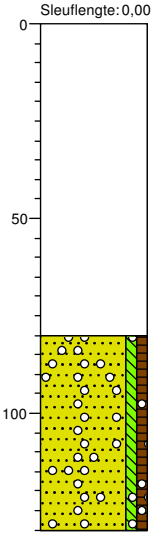
0 waterbodem
Zuigerboor

-80
Zand, matig grof, zwak siltig, zwak humeus, sporen grind, grijsbeige, Zuigerboor

-130

Boring: W224

Sleufbreedte:0,00
Sleuflengte:0,00



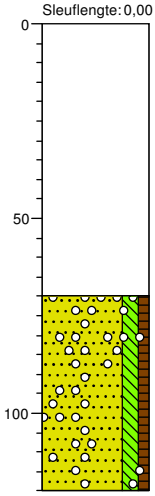
0 waterbodem
Zuigerboor

-80
Zand, matig grof, zwak siltig, zwak humeus, resten wortels, sporen grind, grijs, Zuigerboor

-130

Boring: W225

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem
Zuigerboor

-70
Zand, matig grof, matig siltig, zwak humeus, sporen grind, sporen roest, donkergrijs, Zuigerboor

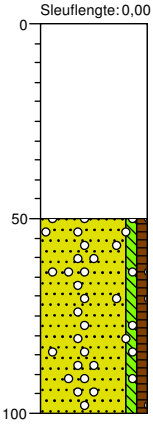
-120

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W226

Sleufbreedte:0,00
Sleuflengte:0,00



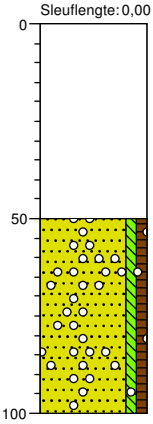
0 waterbodem
Zuigerboor

-50 Zand, matig fijn, zwak siltig, zwak humeus, sporen roest, sporen grind, bruinbeige, Zuigerboor

-100

Boring: W227

Sleufbreedte:0,00
Sleuflengte:0,00



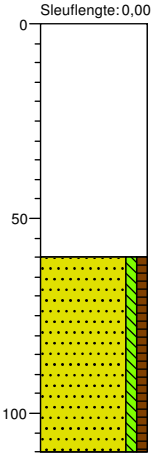
0 waterbodem
Zuigerboor

-50 Zand, matig grof, zwak siltig, zwak humeus, sporen roest, sporen grind, resten wortels, beigebruin, Zuigerboor

-100

Boring: W228

Sleufbreedte:0,00
Sleuflengte:0,00



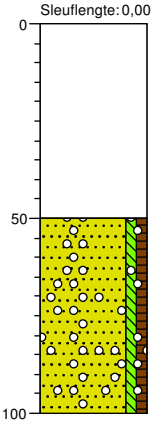
0 waterbodem
Zuigerboor

-60 Zand, matig grof, zwak siltig, zwak humeus, sporen roest, bruinbeige, Zuigerboor

-110

Boring: W229

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem
Zuigerboor

-50 Zand, matig grof, zwak siltig, zwak humeus, sporen grind, resten wortels, beigebruin, Zuigerboor

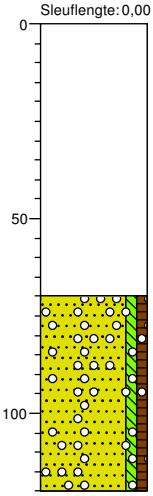
-100

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W230

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem

Zuigerboor

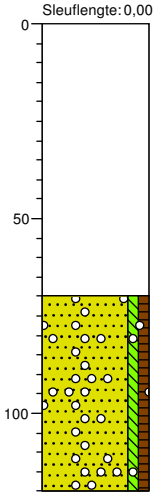
-70

Zand, matig grof, zwak siltig, zwak humeus, sporen roest, sporen grind, beige, Zuigerboor

-120

Boring: W231

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem

Zuigerboor

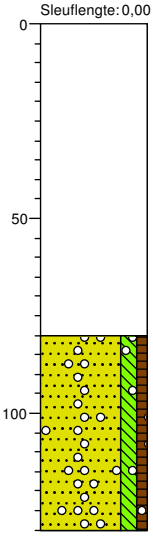
-70

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

-120

Boring: W232

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem

Zuigerboor

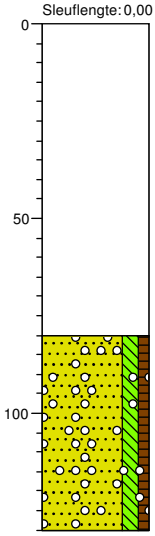
-80

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

-130

Boring: W233

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem

Zuigerboor

-80

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

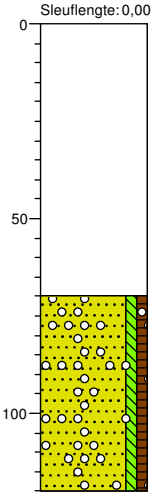
-130

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W234

Sleufbreedte:0,00
Sleuflengte:0,00



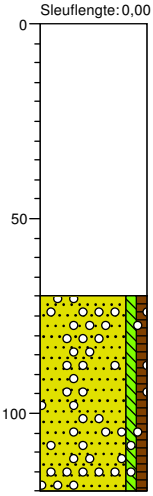
0 waterbodem
Zuigerboor

-70
Zand, matig fijn, zwak siltig, zwak humeus, resten wortels, sporen grind, grijsbruin, Zuigerboor

-120

Boring: W235

Sleufbreedte:0,00
Sleuflengte:0,00



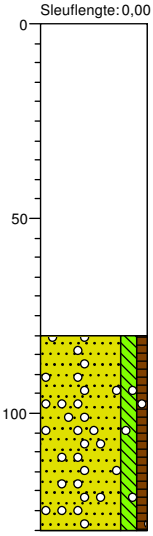
0 waterbodem
Zuigerboor

-70
Zand, zeer grof, zwak siltig, zwak humeus, sporen grind, resten hout, resten wortels, grijsbruin, Zuigerboor

-120

Boring: W236

Sleufbreedte:0,00
Sleuflengte:0,00



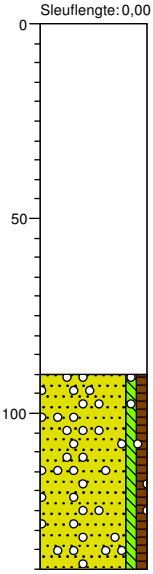
0 waterbodem
Zuigerboor

-80
Zand, matig grof, matig siltig, zwak humeus, zwak roesthoudend, sporen grind, resten wortels, grijsbruin, Zuigerboor

-130

Boring: W237

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem
Zuigerboor

-90
Zand, matig fijn, zwak siltig, zwak humeus, sporen grind, resten wortels, donkergrijs, Zuigerboor

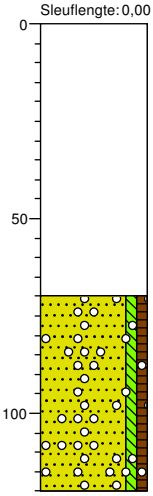
-140

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W238

Sleufbreedte:0,00
Sleuflengte:0,00



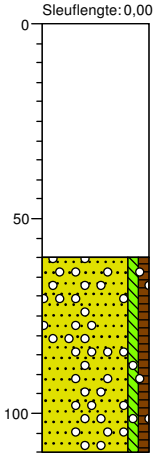
0 waterbodem
Zuigerboor

-70
Zand, matig fijn, zwak siltig, zwak humeus, resten wortels, sporen grind, zwak roesthoudend, grijsbruin, Zuigerboor

-120

Boring: W239

Sleufbreedte:0,00
Sleuflengte:0,00



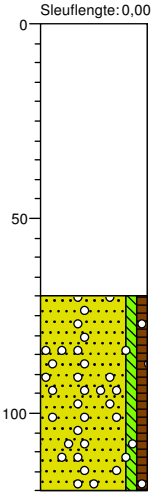
0 waterbodem
Zuigerboor

-60
Zand, matig grof, zwak siltig, zwak humeus, sporen grind, sporen roest, resten wortels, donkergrijs, Zuigerboor

-110

Boring: W240

Sleufbreedte:0,00
Sleuflengte:0,00



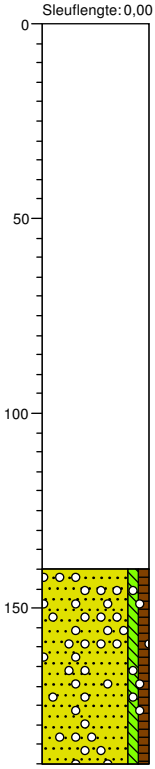
0 waterbodem
Zuigerboor

-70
Zand, matig grof, zwak siltig, zwak humeus, sporen roest, sporen grind, resten wortels, donker grijsbruin, Zuigerboor

-120

Boring: W241

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem
Zuigerboor

-140
Zand, matig grof, zwak siltig, zwak humeus, sporen grind, grijsbruin, Zuigerboor

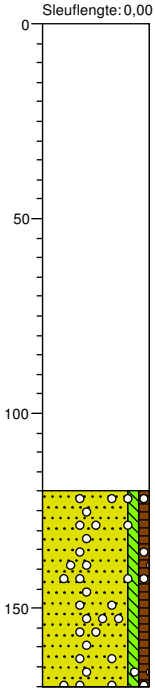
-190

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W242

Sleufbreedte:0,00
Sleuflengte:0,00



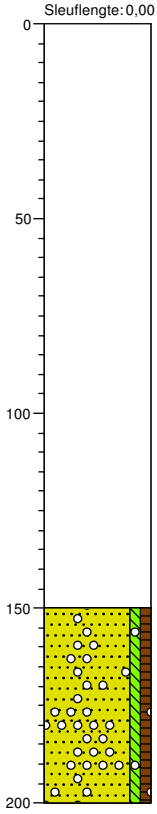
0 waterbodem
Zuigerboor

-120
Zand, matig grof, zwak siltig, zwak humeus, sporen grind, donkergrijs, Zuigerboor

-170

Boring: W243

Sleufbreedte:0,00
Sleuflengte:0,00



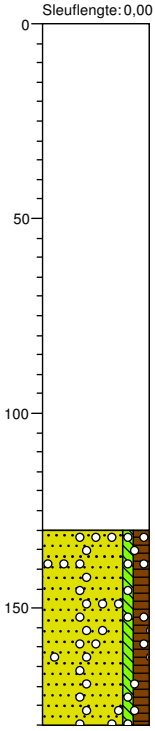
0 waterbodem
Zuigerboor

-150
Zand, matig fijn, zwak siltig, zwak humeus, sporen grind, resten wortels, grijsbruin, Zuigerboor

-200

Boring: W244

Sleufbreedte:0,00
Sleuflengte:0,00



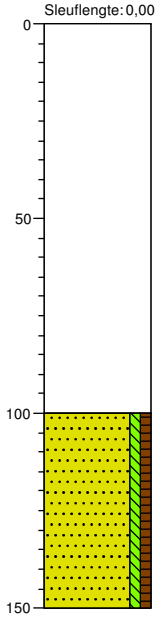
0 waterbodem
Zuigerboor

-130
Zand, matig fijn, zwak siltig, matig humeus, resten wortels, sporen grind, donkergrijs, Zuigerboor

-180

Boring: W245

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem
Zuigerboor

-100
Zand, zeer fijn, zwak siltig, zwak humeus, donkergrijs, Zuigerboor

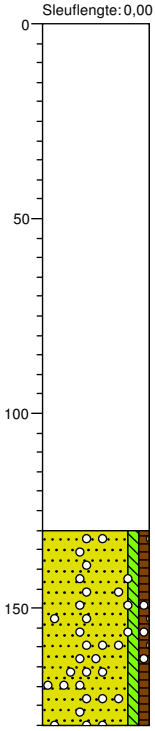
-150

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W246

Sleufbreedte:0,00
Sleuflengte:0,00



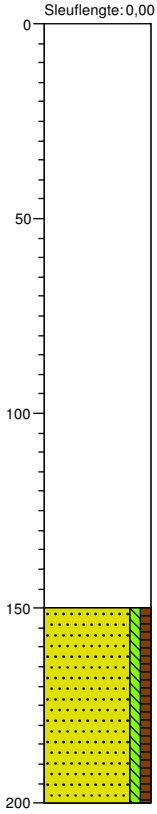
0 waterbodem
Zuigerboor

-130
Zand, matig fijn, zwak siltig, zwak humeus, sporen grind, resten wortels, bruingrijs, Zuigerboor

-180

Boring: W247

Sleufbreedte:0,00
Sleuflengte:0,00



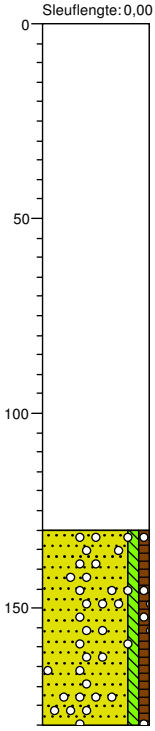
0 waterbodem
Zuigerboor

-150
Zand, matig fijn, zwak siltig, zwak humeus, beigegrijs, Zuigerboor

-200

Boring: W248

Sleufbreedte:0,00
Sleuflengte:0,00



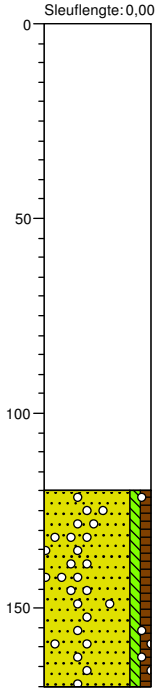
0 waterbodem
Zuigerboor

-130
Zand, matig fijn, zwak siltig, zwak humeus, resten wortels, sporen grind, donkergrijs, Zuigerboor

-180

Boring: W249

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem
Zuigerboor

-120
Zand, zeer grof, zwak siltig, zwak humeus, zwak grindhoudend, zwak houthoudend, sporen wortels, oranjebruin, Zuigerboor

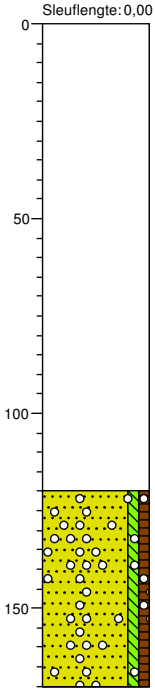
-170

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W250

Sleufbreedte:0,00
Sleuflengte:0,00



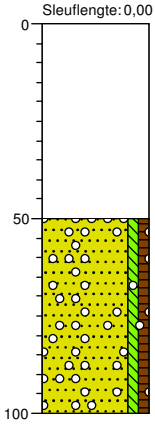
0 waterbodem
Zuigerboor

-120
Zand, matig grof, zwak siltig, zwak humeus, sporen roest, resten wortels, sporen grind, donkergrijs, Zuigerboor

-170

Boring: W251

Sleufbreedte:0,00
Sleuflengte:0,00



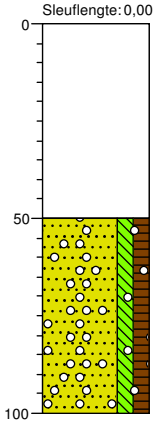
0 waterbodem
Zuigerboor

-50
Zand, matig fijn, zwak siltig, zwak humeus, sporen grind, resten wortels, resten planten, sporen roest, grijs, Zuigerboor

-100

Boring: W252

Sleufbreedte:0,00
Sleuflengte:0,00



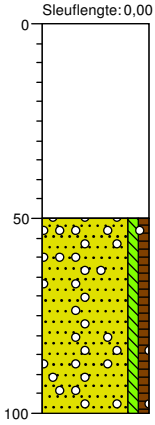
0 waterbodem
Zuigerboor

-50
Zand, matig grof, matig siltig, matig humeus, sporen grind, zwak roesthoudend, resten planten, donkergrijs, Zuigerboor

-100

Boring: W253

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem
Zuigerboor

-50
Zand, matig grof, zwak siltig, zwak humeus, sporen grind, sporen roest, resten wortels, grijsbruin, Zuigerboor

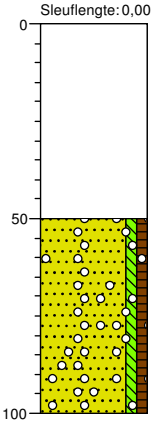
-100

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W254

Sleufbreedte:0,00
Sleuflengte:0,00



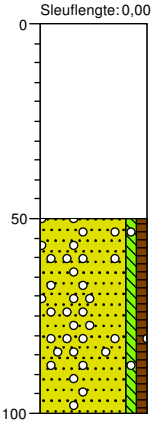
0 waterbodem
Zuigerboor

-50
Zand, matig grof, zwak siltig, zwak humeus, sporen grind, sporen roest, resten wortels, grijs, Zuigerboor

-100

Boring: W255

Sleufbreedte:0,00
Sleuflengte:0,00



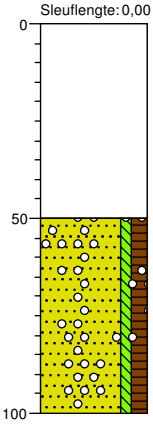
0 waterbodem
Zuigerboor

-50
Zand, matig grof, zwak siltig, zwak humeus, sporen grind, sporen roest, resten wortels, resten planten, donkergrijs, Zuigerboor

-100

Boring: W256

Sleufbreedte:0,00
Sleuflengte:0,00



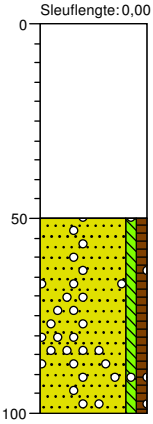
0 waterbodem
Zuigerboor

-50
Zand, matig grof, zwak siltig, matig humeus, sporen grind, resten wortels, resten planten, zwak roesthoudend, grijsbruin, Zuigerboor

-100

Boring: W257

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem
Zuigerboor

-50
Zand, matig grof, zwak siltig, zwak humeus, sporen grind, zwak roesthoudend, resten wortels, resten planten, donkergrijs, Zuigerboor

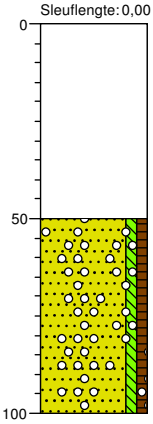
-100

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W258

Sleufbreedte:0,00
Sleuflengte:0,00



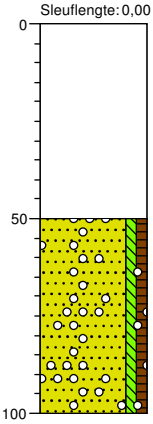
0 waterbodem
Zuigerboor

-50
Zand, matig grof, zwak siltig, zwak humeus, sporen grind, resten wortels, resten planten, zwak roesthoudend, grijsbruin, Zuigerboor

-100

Boring: W259

Sleufbreedte:0,00
Sleuflengte:0,00



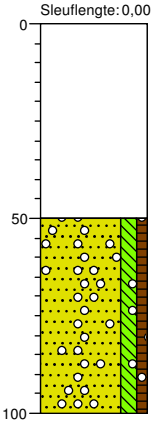
0 waterbodem
Zuigerboor

-50
Zand, matig fijn, zwak siltig, zwak humeus, sporen grind, resten wortels, resten planten, zwak roesthoudend, bruingrijs, Zuigerboor

-100

Boring: W260

Sleufbreedte:0,00
Sleuflengte:0,00



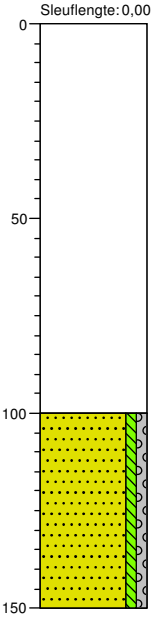
0 waterbodem
Zuigerboor

-50
Zand, matig grof, matig siltig, zwak humeus, sporen grind, resten planten, sporen roest, grijsbruin, Zuigerboor

-100

Boring: W261

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem
Edelmanboor

-100
Zand, zeer grof, zwak siltig, zwak grindig, grijs, Edelmanboor

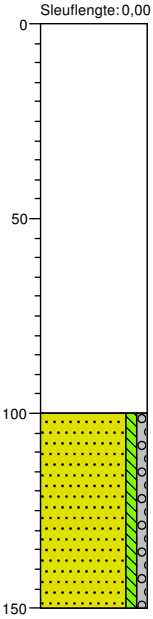
-150

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W262

Sleufbreedte:0,00
Sleuflengte:0,00



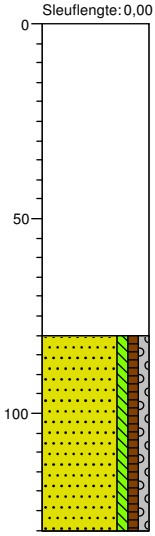
0 waterbodem
Edelmanboor

-100
Zand, matig grof, zwak siltig, zwak grindig, sporen roest, resten wortels, grijs, Edelmanboor

-150

Boring: W263

Sleufbreedte:0,00
Sleuflengte:0,00



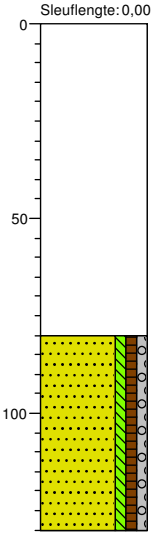
0 waterbodem
Edelmanboor

-80
Zand, zeer grof, zwak siltig, zwak humeus, zwak grindig, resten wortels, grijs, Edelmanboor

-130

Boring: W264

Sleufbreedte:0,00
Sleuflengte:0,00



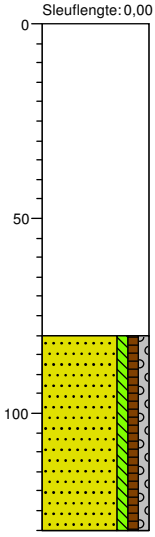
0 waterbodem
Edelmanboor

-80
Zand, matig grof, zwak siltig, zwak humeus, zwak grindig, resten wortels, sporen roest, grijs, Edelmanboor

-130

Boring: W265

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem
Edelmanboor

-80
Zand, matig grof, zwak siltig, zwak humeus, zwak grindig, sporen roest, resten wortels, donkergrijs, Zuigerboor

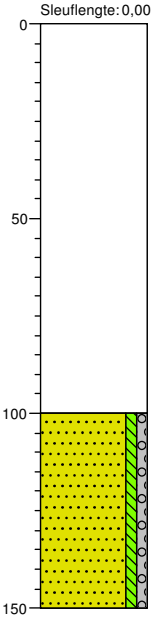
-130

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W266

Sleufbreedte:0,00
Sleuflengte:0,00



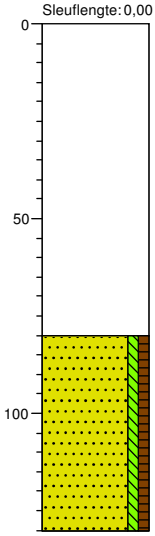
0 waterbodem
Zuigerboor

-100
Zand, zeer grof, zwak siltig, zwak grindig, grijs, Zuigerboor

-150

Boring: W267

Sleufbreedte:0,00
Sleuflengte:0,00



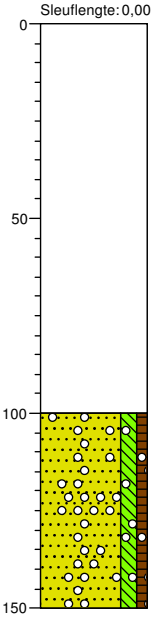
0 waterbodem
Zuigerboor

-80
Zand, matig grof, zwak siltig, zwak humeus, resten wortels, grijs, Zuigerboor

-130

Boring: W268

Sleufbreedte:0,00
Sleuflengte:0,00



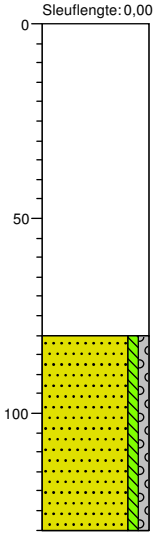
0 waterbodem
Zuigerboor

-100
Zand, matig grof, matig siltig, zwak humeus, sporen grind, resten wortels, sporen roest, donkergrijs, Zuigerboor

-150

Boring: W269

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem
Zuigerboor

-80
Zand, matig grof, zwak siltig, zwak grindig, grijs, Zuigerboor

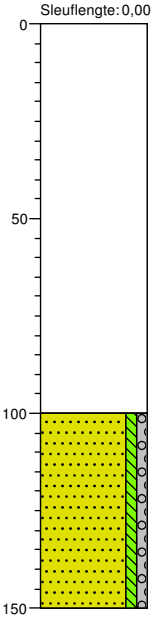
-130

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W270

Sleufbreedte:0,00
Sleuflengte:0,00



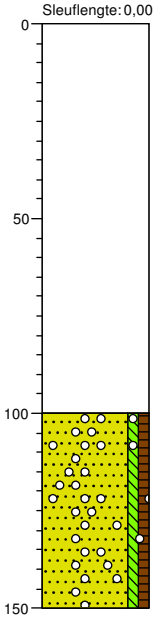
0 waterbodem
Zuigerboor

-100
Zand, matig grof, zwak siltig, zwak grindig, grijs, Zuigerboor

-150

Boring: W271

Sleufbreedte:0,00
Sleuflengte:0,00



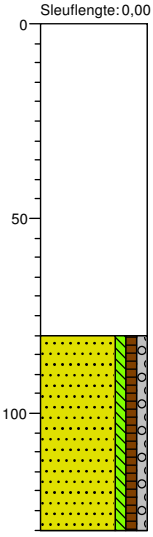
0 waterbodem
Zuigerboor

-100
Zand, matig grof, zwak siltig, zwak humeus, sporen roest, resten wortels, sporen grind, bruinbeige, Zuigerboor

-150

Boring: W272

Sleufbreedte:0,00
Sleuflengte:0,00



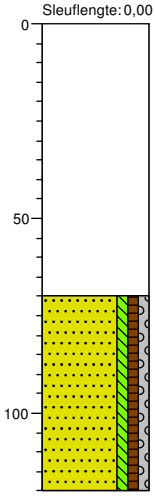
0 waterbodem
Zuigerboor

-80
Zand, zeer grof, zwak siltig, zwak humeus, zwak grindig, resten wortels, sporen roest, bruinbeige, Zuigerboor

-130

Boring: W273

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem
Zuigerboor

-70
Zand, matig grof, zwak siltig, zwak humeus, zwak grindig, zwak roesthoudend, resten wortels, grijsbruin, Zuigerboor

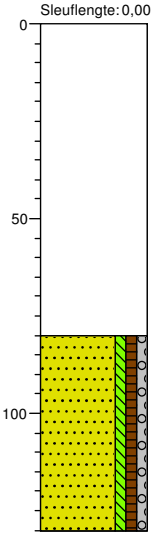
-120

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W274

Sleufbreedte:0,00
Sleuflengte:0,00



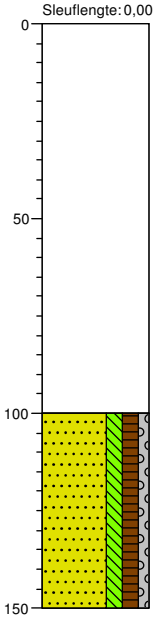
0 waterbodem
Zuigerboor

-80
Zand, matig fijn, zwak siltig, zwak humeus, zwak grindig, sporen roest, resten wortels, donkergrijs, Zuigerboor

-130

Boring: W275

Sleufbreedte:0,00
Sleuflengte:0,00



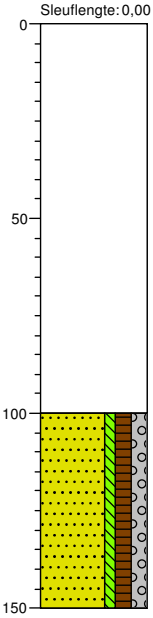
0 waterbodem
Zuigerboor

-100
Zand, matig grof, matig siltig, matig humeus, zwak grindig, resten wortels, sporen roest, donkergrijs, Zuigerboor

-150

Boring: W276

Sleufbreedte:0,00
Sleuflengte:0,00



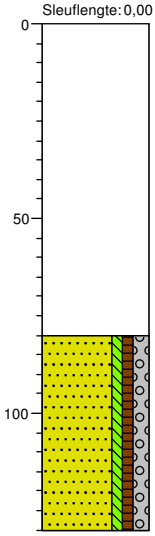
0 waterbodem
Zuigerboor

-100
Zand, matig grof, zwak siltig, matig humeus, matig grindig, resten wortels, zwak roesthoudend, donkergrijs, Zuigerboor

-150

Boring: W277

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem
Zuigerboor

-80
Zand, zeer grof, zwak siltig, zwak humeus, matig grindig, donkergrijs, Zuigerboor

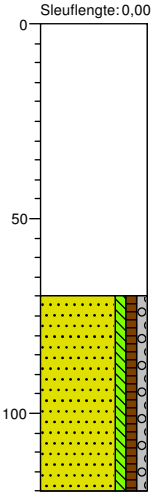
-130

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W278

Sleufbreedte:0,00
Sleuflengte:0,00



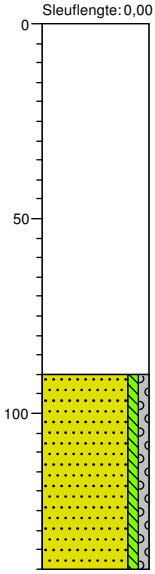
0 waterbodem
Zuigerboor

-70
Zand, matig grof, zwak siltig, zwak humeus, zwak grindig, resten wortels, zwak roesthoudend, grijsbruin, Zuigerboor

-120

Boring: W279

Sleufbreedte:0,00
Sleuflengte:0,00



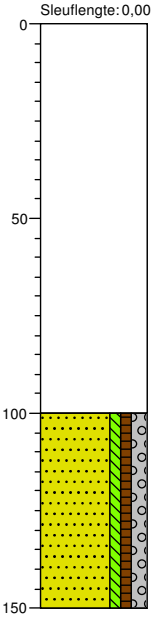
0 waterbodem
Zuigerboor

-90
Zand, zeer grof, zwak siltig, zwak grindig, resten wortels, sporen roest, grijsbruin, Zuigerboor

-140

Boring: W280

Sleufbreedte:0,00
Sleuflengte:0,00



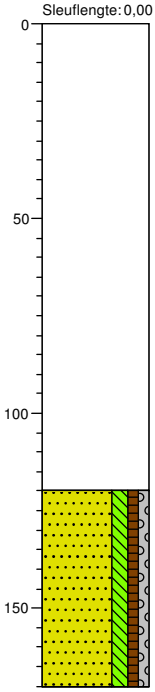
0 waterbodem
Zuigerboor

-100
Zand, zeer grof, zwak siltig, zwak humeus, matig grindig, donkergrijs, Zuigerboor

-150

Boring: W281

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem
Zuigerboor

-120
Zand, matig grof, matig siltig, zwak humeus, zwak grindig, resten planten, donkergrijs, Zuigerboor

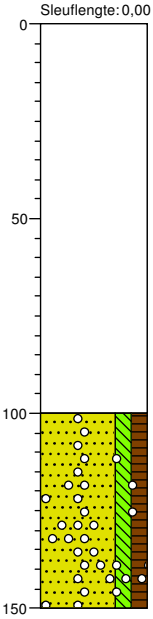
-170

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W282

Sleufbreedte:0,00
Sleuflengte:0,00



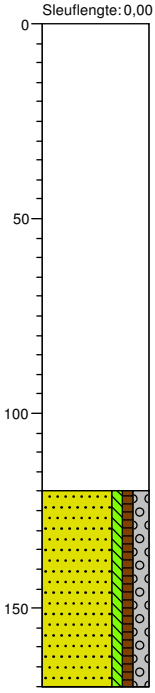
0 waterbodem
Zuigerboor

-100
Zand, matig grof, matig siltig, matig humeus, sporen grind, resten planten, sporen hout, donkergrijs, Zuigerboor

-150

Boring: W283

Sleufbreedte:0,00
Sleuflengte:0,00



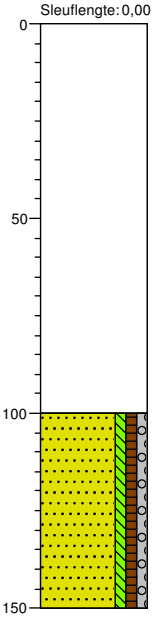
0 waterbodem
Zuigerboor

-120
Zand, zeer grof, zwak siltig, zwak humeus, matig grindig, resten planten, resten wortels, sporen roest, bruinbeige, Zuigerboor

-170

Boring: W284

Sleufbreedte:0,00
Sleuflengte:0,00



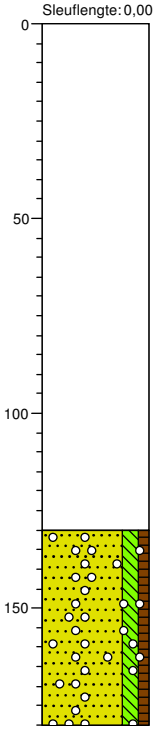
0 waterbodem
Zuigerboor

-100
Zand, matig grof, zwak siltig, zwak humeus, zwak grindig, resten planten, resten wortels, sporen roest, donkerbruin, Zuigerboor

-150

Boring: W285

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem
Zuigerboor

-130
Zand, zeer fijn, matig siltig, zwak humeus, sporen grind, lichtgrijs, Zuigerboor

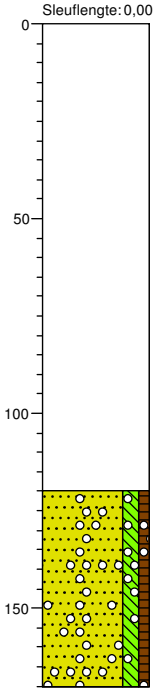
-180

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W286

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem

Zuigerboor

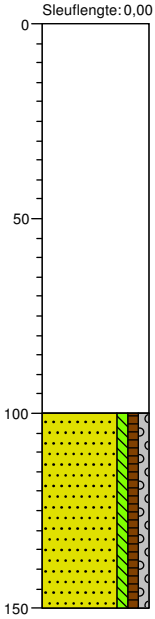
-120

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

-170

Boring: W287

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem

Zuigerboor

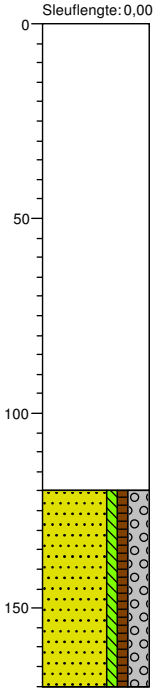
-100

Zand, matig grof, zwak siltig, zwak humeus, zwak grindig, sporen roest, resten wortels, resten planten, sporen hout, donkerbruin, Zuigerboor

-150

Boring: W288

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem

Zuigerboor

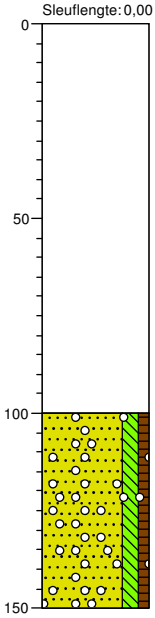
-120

Zand, zeer grof, zwak siltig, zwak humeus, sterk grindig, donkergrijs, Zuigerboor

-170

Boring: W289

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem

Zuigerboor

-100

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

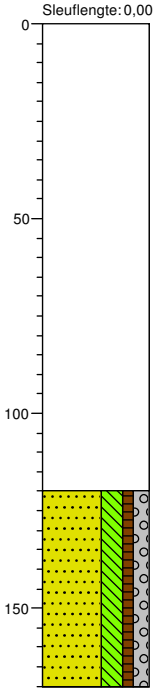
-150

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W290

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem

Zuigerboor

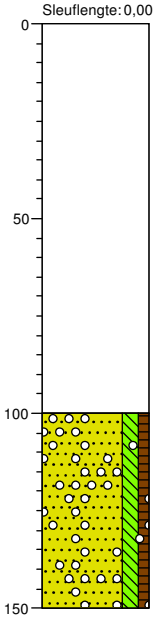
-120

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

-170

Boring: W291

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem

Zuigerboor

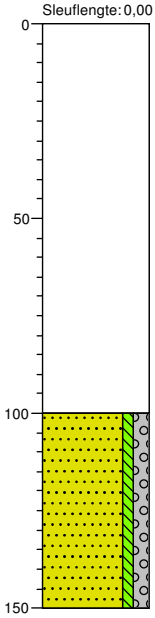
-100

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

-150

Boring: W292

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem

Zuigerboor

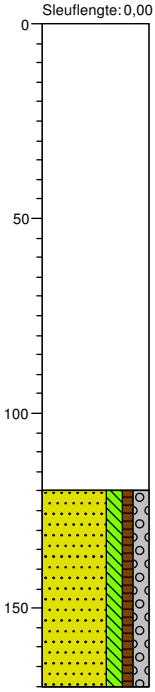
-100

Zand, zeer grof, zwak siltig, matig grindig, grijs, Zuigerboor

-150

Boring: W293

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem

Zuigerboor

-120

Zand, zeer grof, matig siltig, zwak humeus, matig grindig, sporen roest, resten planten, resten wortels, grijsbeige, Zuigerboor

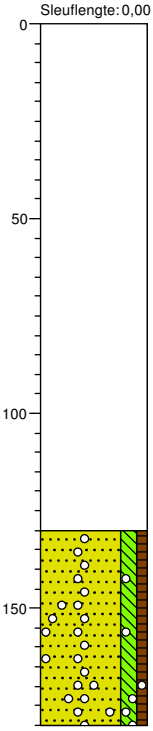
-170

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W294

Sleufbreedte:0,00
Sleuflengte:0,00



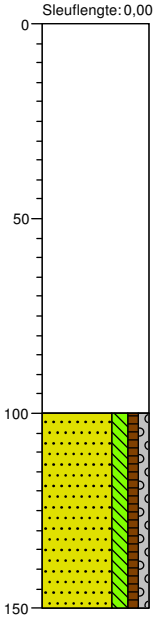
0 waterbodem
Zuigerboor

-130
Zand, matig fijn, matig siltig, zwak humeus, sporen roest, resten planten, resten wortels, sporen grind, donkergrijs, Zuigerboor

-180

Boring: W295

Sleufbreedte:0,00
Sleuflengte:0,00



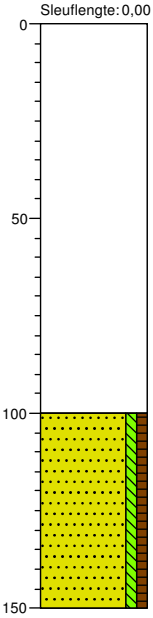
0 waterbodem
Zuigerboor

-100
Zand, matig grof, matig siltig, zwak humeus, zwak grindig, resten planten, resten wortels, zwak roesthoudend, grijsbeige, Zuigerboor

-150

Boring: W296

Sleufbreedte:0,00
Sleuflengte:0,00



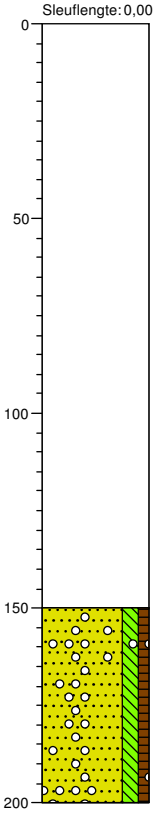
0 waterbodem
Zuigerboor

-100
Zand, matig grof, zwak siltig, zwak humeus, donkergrijs, Zuigerboor

-150

Boring: W297

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem
Zuigerboor

-150
Zand, matig grof, matig siltig, zwak humeus, sporen grind, resten wortels, resten planten, sporen roest, grijsbruin, Zuigerboor

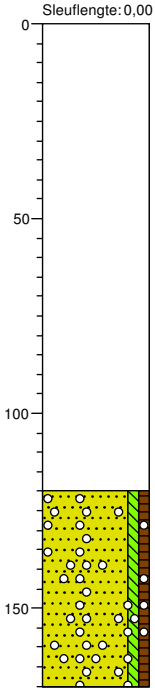
-200

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W298

Sleufbreedte:0,00
Sleuflengte:0,00



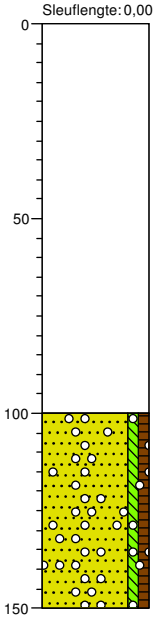
0 waterbodem
Zuigerboor

-120
Zand, matig grof, zwak siltig, zwak humeus, sporen grind, resten wortels, resten planten, zwak roesthoudend, oranjebruin, Zuigerboor

-170

Boring: W299

Sleufbreedte:0,00
Sleuflengte:0,00



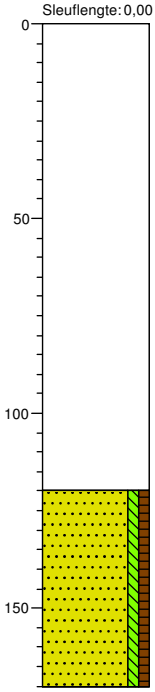
0 waterbodem
Zuigerboor

-100
Zand, zeer grof, zwak siltig, zwak humeus, sporen grind, zwak roesthoudend, zwak plantenhoudend, beigebruin, Zuigerboor

-150

Boring: W300

Sleufbreedte:0,00
Sleuflengte:0,00



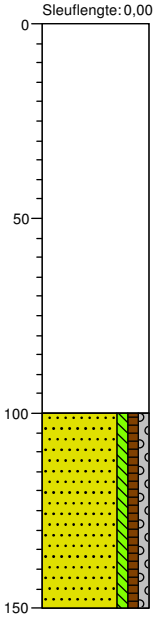
0 waterbodem
Zuigerboor

-120
Zand, matig grof, zwak siltig, zwak humeus, resten planten, resten wortels, sporen roest, donkergrijs, Zuigerboor

-170

Boring: W301

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem
Zuigerboor

-100
Zand, matig grof, zwak siltig, zwak humeus, zwak grindig, resten wortels, resten planten, sporen roest, donkergrijs, Zuigerboor

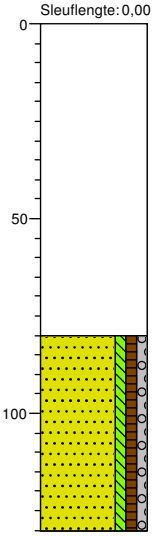
-150

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W302

Sleufbreedte:0,00
Sleuflengte:0,00



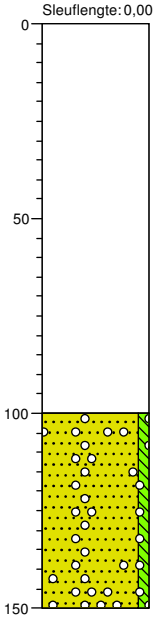
0 waterbodem
Zuigerboor

-80
Zand, matig grof, zwak siltig, zwak humeus, zwak grindig, sporen roest, resten planten, resten wortels, donkergrijs, Zuigerboor

-130

Boring: W303

Sleufbreedte:0,00
Sleuflengte:0,00



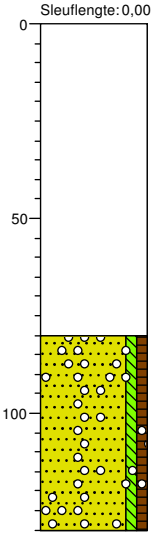
0 waterbodem
Zuigerboor

-100
Zand, matig grof, zwak siltig, sporen grind, grijs, Zuigerboor

-150

Boring: W304

Sleufbreedte:0,00
Sleuflengte:0,00



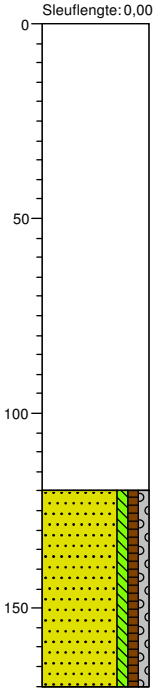
0 waterbodem
Zuigerboor

-80
Zand, matig grof, zwak siltig, zwak humeus, sporen grind, resten wortels, resten planten, donkergrijs, Zuigerboor

-130

Boring: W305

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem
Zuigerboor

-120
Zand, matig grof, zwak siltig, zwak humeus, zwak grindig, zwak roesthoudend, resten wortels, grijs, Zuigerboor

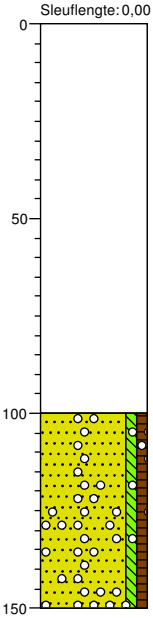
-170

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W306

Sleufbreedte:0,00
Sleuflengte:0,00



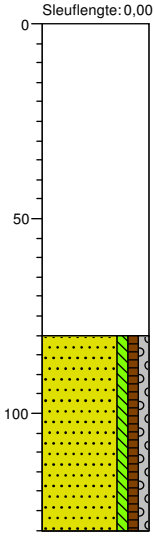
0 waterbodem
Zuigerboor

-100
Zand, matig grof, zwak siltig, zwak humeus, sporen grind, sporen roest, resten planten, grijsbruin, Zuigerboor

-150

Boring: W307

Sleufbreedte:0,00
Sleuflengte:0,00



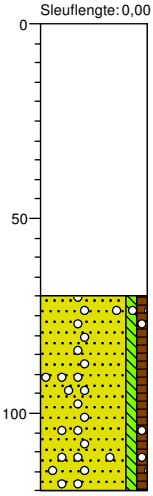
0 waterbodem
Zuigerboor

-80
Zand, matig grof, zwak siltig, zwak humeus, zwak grindig, zwak roesthoudend, resten wortels, bruinoranje, Zuigerboor

-130

Boring: W308

Sleufbreedte:0,00
Sleuflengte:0,00



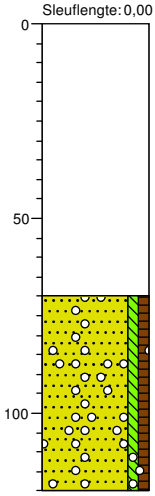
0 waterbodem
Zuigerboor

-70
Zand, matig fijn, zwak siltig, zwak humeus, sporen grind, zwak roesthoudend, resten planten, grijsbeige, Zuigerboor

-120

Boring: W309

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem
Zuigerboor

-70
Zand, zeer grof, zwak siltig, zwak humeus, zwak roesthoudend, sporen grind, beigegrijs, Zuigerboor

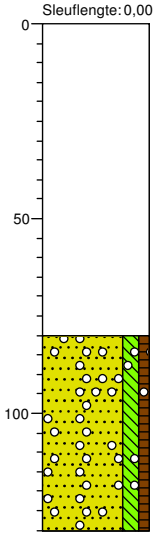
-120

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

Boring: W310

Sleufbreedte:0,00
Sleuflengte:0,00



0 waterbodem

Zuigerboor

-80

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

-130

Eckeltsebeek te Bergen

Projectcode: 0302WAL/19_-_PFAS

BIJLAGE 4

LABORATORIUMCERTIFICATEN

SYNLAB Analytics & Services B.V.
Correspondentieadres
Steenhouwerstraat 15 · 3194 AG Rotterdam
Tel.: +31 (0)10 231 47 00 · Fax: +31 (0)10 416 30 34
www.synlab.nl

Analyserapport

MIL.TECH.ADV.BUREAU HEEL
Mike de Vaan
Postbus 5049
6097 ZG HEEL

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,

Jaap-Willem Hutter
Technical Director

MIL.TECH.ADV.BUREAU HEEL
Mike de Vaan

Analyserapport

Projectnaam	Eckeltsebeek te Bergen	Orderdatum	24-10-2019
Projectnummer	0302WAL/19	Startdatum	24-10-2019
Rapportnummer	13132266 - 2	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
ANALYSES UITGEVOERD DOOR DERDEN							
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 :

Projectnaam	Eckeltsebeek te Bergen	Orderdatum	24-10-2019
Projectnummer	0302WAL/19	Startdatum	24-10-2019
Rapportnummer	13132266 - 2	Rapportagedatum	20-11-2019

Monster beschrijvingen

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

005
* 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	Orderdatum	24-10-2019
Projectnummer	0302WAL/19	Startdatum	24-10-2019
Rapportnummer	13132266 - 2	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
ANALYSES UITGEVOERD DOOR DERDEN							
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 :

Projectnaam	Eckeltsebeek te Bergen	Orderdatum	24-10-2019
Projectnummer	0302WAL/19	Startdatum	24-10-2019
Rapportnummer	13132266 - 2	Rapportagedatum	20-11-2019

Monster beschrijvingen

006
* 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
* 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
* 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
* 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
* 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	Orderdatum	24-10-2019
Projectnummer	0302WAL/19	Startdatum	24-10-2019
Rapportnummer	13132266 - 2	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
ANALYSES UITGEVOERD DOOR DERDEN							
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 :

Projectnaam	Eckeltsebeek te Bergen	Orderdatum	24-10-2019
Projectnummer	0302WAL/19	Startdatum	24-10-2019
Rapportnummer	13132266 - 2	Rapportagedatum	20-11-2019

Monster beschrijvingen

011
* 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
* 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
* 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
* 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
* 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	Orderdatum	24-10-2019
Projectnummer	0302WAL/19	Startdatum	24-10-2019
Rapportnummer	13132266 - 2	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
ANALYSES UITGEVOERD DOOR DERDEN			
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	Orderdatum	24-10-2019
Projectnummer	0302WAL/19	Startdatum	24-10-2019
Rapportnummer	13132266 - 2	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	Orderdatum	24-10-2019
Projectnummer	0302WAL/19	Startdatum	24-10-2019
Rapportnummer	13132266 - 2	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 :

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Provning
ISO/IEC 17025

REPORT

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.	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.	Perfluornonanoic 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. (*)	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.	Perfluorbutanoicsulphon.PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.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 = Perfluoroctane acid PFOS = Perfluoroctane 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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Assigner

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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.	Perfluordecanoicsulpho. 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.	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

Magnus Casselgren
Responsible reviewer
Control numbers 1116 8804 5622 4582

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Rotterdam

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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.	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.	Perfluornonanoic 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. (*)	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.	Perfluorbutanoicsulphon.PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.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 = Perfluoroctane acid PFOS = Perfluoroctane 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. 19475189

Assigner

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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.	Perfluordecanoicsulpho. 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.	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

Magnus Casselgren
Responsible reviewer
Control numbers 1016 8605 5828 4484

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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.	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.	Perfluornonanoic 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. (*)	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.	Perfluorbutanoicsulphon.PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.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 = Perfluoroctane acid PFOS = Perfluoroctane 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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Ackred. nr 1006
Provning
ISO/IEC 17025

REPORT

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*
Calculated	PFOS, total	0.21	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoicsulpho. 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.	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

Magnus Casselgren
Responsible reviewer
Control numbers 0169 8902 5220 4588

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Ackred. nr 1006
Provning
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REPORT

issued by an Accredited Laboratory

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.	Perfluornonanoic 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. (*)	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.	Perfluorbutanoicsulphon.PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.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 = Perfluoroctane acid PFOS = Perfluoroctane 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

issued by an Accredited Laboratory

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.	Perfluordecanoicsulpho. 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.	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.

Linköping 2019-11-04

The report has been reviewed and approved by

Patric Eklundh
Responsible reviewer

Control numbers 0168 8707 5520 4885

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Ackred. nr 1006
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REPORT

issued by an Accredited Laboratory

Report No. 19475192

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
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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.	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.	Perfluornonanoic 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. (*)	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.	Perfluorbutanoicsulphon.PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.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 = Perfluoroctane acid PFOS = Perfluoroctane 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

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*
Calculated	PFOS, total	0.27	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoicsulpho. 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.	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

Magnus Casselgren
Responsible reviewer
Control numbers 0167 8806 5229 4185

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Ackred. nr 1006
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REPORT

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*
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.	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	0.14	± 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.	Perfluornonanoic 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. (*)	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.	Perfluorbutanoicsulphon.PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.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 = Perfluoroctane acid PFOS = Perfluoroctane 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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Ackred. nr 1006
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REPORT

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.	Perfluordecanoicsulpho. 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.	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

Sofi Jonsson
Responsible reviewer
Control numbers 0166 8409 5427 4581

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Ackred. nr 1006
Provning
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REPORT

issued by an Accredited Laboratory

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*
SS-ISO 11465	Dry substance	85.4	± 8.54	%
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.	Perfluornonanoic 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. (*)	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.	Perfluorbutanoicsulphon.PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.PFHpS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	0.35	± 0.11	ug/kg TS
DIN 38414-14 mod.	PFOS, branched	< 0.1	± 0.10	ug/kg TS

(*) :Method not accredited by Swedac

PFOA = Perfluoroctane acid PFOS = Perfluoroctane 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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Ackred. nr 1006
Provning
ISO/IEC 17025

REPORT

issued by an Accredited Laboratory

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.	Perfluordecanoicsulpho. 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.	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

Magnus Casselgren
Responsible reviewer
Control numbers 0165 8804 5825 4481

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Ackred. nr 1006
Provning
ISO/IEC 17025

REPORT

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.	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.	Perfluornonanoic 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. (*)	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.	Perfluorbutanoicsulphon.PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.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 = Perfluoroctane acid PFOS = Perfluoroctane 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

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*
Calculated	PFOS, total	0.20	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoicsulpho. 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.	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

Magnus Casselgren
Responsible reviewer
Control numbers 0164 8906 5825 4987

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Ackred. nr 1006
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REPORT

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.	Perfluornonanoic 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. (*)	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.	Perfluorbutanoicsulphon.PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.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 = Perfluoroctane acid PFOS = Perfluoroctane 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

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*
Calculated	PFOS, total	0.21	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoicsulpho. 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.	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

Magnus Casselgren
Responsible reviewer
Control numbers 0163 8307 5321 4989

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REPORT

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.	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	0.44	± 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.	Perfluornonanoic 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. (*)	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.	Perfluorbutanoicsulphon.PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.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 = Perfluoroctane acid PFOS = Perfluoroctane 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

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*
Calculated	PFOS, total	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluordecanoicsulpho. 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.	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

Sofi Jonsson
Responsible reviewer
Control numbers 0162 8304 5325 4687

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Ackred. nr 1006
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REPORT

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.	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	0.44	± 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.	Perfluornonanoic 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. (*)	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.	Perfluorbutanoicsulphon.PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.PFHpS	< 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 = Perfluoroctane acid PFOS = Perfluoroctane 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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Ackred. nr 1006
Provning
ISO/IEC 17025

REPORT

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.	Perfluordecanoicsulpho. 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.	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

Magnus Casselgren
Responsible reviewer
Control numbers 0161 8307 5821 4483

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Ackred. nr 1006
Provning
ISO/IEC 17025

REPORT

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*
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.	Perfluornonanoic 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. (*)	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.	Perfluorbutanoicsulphon.PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.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 = Perfluoroctane acid PFOS = Perfluoroctane 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

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.	Perfluordecanoicsulpho. 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.	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

Magnus Casselgren
Responsible reviewer
Control numbers 0160 8606 5723 4588

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REPORT

issued by an Accredited Laboratory

Report No. 19475200

Assigner

SYNLAB Analytics & Services BV
Rotterdam

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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*
SS-ISO 11465	Dry substance	88.7	± 8.87	%
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	0.18	± 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.	Perfluornonanoic 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. (*)	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.	Perfluorbutanoicsulphon.PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.PFHpS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	PFOS, linear	0.36	± 0.11	ug/kg TS
DIN 38414-14 mod.	PFOS, branched	< 0.1	± 0.10	ug/kg TS

(*) :Method not accredited by Swedac

PFOA = Perfluoroctane acid PFOS = Perfluoroctane 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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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.	Perfluordecanoicsulpho. 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.	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

Sofi Jonsson
Responsible reviewer
Control numbers 9985 0454 2416 4073

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REPORT

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Report No. 19475201

Assigner

SYNLAB Analytics & Services BV
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Steenhouwerstraat 15
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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.	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	0.10	± 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.	Perfluornonanoic 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. (*)	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.	Perfluorbutanoicsulphon.PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.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 = Perfluoroctane acid PFOS = Perfluoroctane 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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Ackred. nr 1006
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REPORT

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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.	Perfluordecanoicsulpho. 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.	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

Sofi Jonsson
Responsible reviewer
Control numbers 9881 0956 2416 4772

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Ackred. nr 1006
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REPORT

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.	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.	Perfluornonanoic 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. (*)	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.	Perfluorbutanoicsulphon.PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.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 = Perfluoroctane acid PFOS = Perfluoroctane 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
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Ackred. nr 1006
Provning
ISO/IEC 17025

REPORT

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.	Perfluordecanoicsulpho. 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.	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

Magnus Casselgren
Responsible reviewer
Control numbers 9785 0056 2316 4177

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Ackred. nr 1006
Provning
ISO/IEC 17025

REPORT

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.	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.	Perfluornonanoic 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. (*)	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.	Perfluorbutanoicsulphon.PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.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 = Perfluoroctane acid PFOS = Perfluoroctane 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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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.	Perfluordecanoicsulpho. 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.	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

Magnus Casselgren
Responsible reviewer
Control numbers 9685 0153 2616 4772

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Analyserapport

MIL.TECH.ADV.BUREAU HEEL
Mike de Vaan
Postbus 5049
6097 ZG HEEL

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,

Jaap-Willem Hutter
Technical Director

MIL.TECH.ADV.BUREAU HEEL
Mike de Vaan

Analyserapport

Projectnaam	Eckeltsebeek te Bergen	Orderdatum	01-11-2019
Projectnummer	0302WAL/19	Startdatum	01-11-2019
Rapportnummer	13138111 - 1	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
ANALYSES UITGEVOERD DOOR DERDEN							
PFAS (30) en GENX			zie bijlage	zie bijlage	zie bijlage	zie bijlage	zie bijlage

Paraaf :

Projectnaam	Eckeltsebeek te Bergen	Orderdatum	01-11-2019
Projectnummer	0302WAL/19	Startdatum	01-11-2019
Rapportnummer	13138111 - 1	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 :

MIL.TECH.ADV.BUREAU HEEL
Mike de Vaan

Analyserapport

Projectnaam	Eckeltsebeek te Bergen	Orderdatum	01-11-2019
Projectnummer	0302WAL/19	Startdatum	01-11-2019
Rapportnummer	13138111 - 1	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
ANALYSES UITGEVOERD DOOR DERDEN					
PFAS (30) en GENX			zie bijlage	zie bijlage	zie bijlage

Paraaf :

Projectnaam	Eckeltsebeek te Bergen	Orderdatum	01-11-2019
Projectnummer	0302WAL/19	Startdatum	01-11-2019
Rapportnummer	13138111 - 1	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 :

MIL.TECH.ADV.BUREAU HEEL
Mike de Vaan

Analyserapport

Projectnaam	Eckeltsebeek te Bergen	Orderdatum	01-11-2019
Projectnummer	0302WAL/19	Startdatum	01-11-2019
Rapportnummer	13138111 - 1	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 :

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Ackred. nr 1006
Provning
ISO/IEC 17025

REPORT

issued by an Accredited Laboratory

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.	Perfluornonanoic 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, PFTrDA	< 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.	Perfluorbutanoicsulphon.PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.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 = Perfluoroctane acid PFOS = Perfluoroctane 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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Ackred. nr 1006
Provning
ISO/IEC 17025

REPORT

issued by an Accredited Laboratory

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. (*)	Perfluordecanoicsulpho. 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

Patric Eklundh
Responsible reviewer
Control numbers 0164 8503 5514 5932

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REPORT

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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.	Perfluornonanoic 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, PFTrDA	< 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.	Perfluorbutanoicsulphon.PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.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 = Perfluoroctane acid PFOS = Perfluoroctane 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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Ackred. nr 1006
Provning
ISO/IEC 17025

REPORT

issued by an Accredited Laboratory

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. (*)	Perfluordecanoicsulpho. 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

Patric Eklundh
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REPORT

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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.	Perfluornonanoic 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, PFTrDA	< 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.	Perfluorbutanoicsulphon.PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.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 = Perfluoroctane acid PFOS = Perfluoroctane 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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Report No. 19484697

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
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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. (*)	Perfluordecanoicsulpho. 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

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REPORT

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Report No. 19484698

Assigner

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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.	Perfluornonanoic 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, PFTrDA	< 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.	Perfluorbutanoicsulphon.PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.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 = Perfluoroctane acid PFOS = Perfluoroctane 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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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. (*)	Perfluordecanoicsulpho. 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

Patric Eklundh
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REPORT

issued by an Accredited Laboratory

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.	Perfluornonanoic 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. (*)	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.	Perfluorbutanoicsulphon.PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.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 = Perfluoroctane acid PFOS = Perfluoroctane 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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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. (*)	Perfluordecanoicsulpho. 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

Patric Eklundh
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REPORT

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Report No. 19484700

Assigner

SYNLAB Analytics & Services BV
Rotterdam

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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.	Perfluornonanoic 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, PFTrDA	< 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.	Perfluorbutanoicsulphon.PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.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 = Perfluoroctane acid PFOS = Perfluoroctane 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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Ackred. nr 1006
Provning
ISO/IEC 17025

REPORT

issued by an Accredited Laboratory

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. (*)	Perfluordecanoicsulpho. 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

Patric Eklundh
Responsible reviewer
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Ackred. nr 1006
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REPORT

issued by an Accredited Laboratory

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.	Perfluornonanoic 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, PFTrDA	< 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.	Perfluorbutanoicsulphon.PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.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 = Perfluoroctane acid PFOS = Perfluoroctane 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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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. (*)	Perfluordecanoicsulpho. 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.	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

Patric Eklundh
Responsible reviewer
Control numbers 9886 0158 1916 5828

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Ackred. nr 1006
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REPORT

issued by an Accredited Laboratory

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.	Perfluornonanoic 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, PFTrDA	< 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.	Perfluorbutanoicsulphon.PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.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 = Perfluoroctane acid PFOS = Perfluoroctane 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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Ackred. nr 1006
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REPORT

issued by an Accredited Laboratory

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. (*)	Perfluordecanoicsulpho. 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

Patric Eklundh
Responsible reviewer
Control numbers 9787 0552 1416 5722

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Analyserapport

MIL.TECH.ADV.BUREAU HEEL
Mike de Vaan
Postbus 5049
6097 ZG HEEL

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,

Jaap-Willem Hutter
Technical Director

MIL.TECH.ADV.BUREAU HEEL
Mike de Vaan

Analyserapport

Projectnaam	Eckeltsebeek te Bergen	Orderdatum	01-11-2019
Projectnummer	0302WAL/19	Startdatum	01-11-2019
Rapportnummer	13138114 - 1	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
ANALYSES UITGEVOERD DOOR DERDEN							
PFAS (30) en GENX			zie bijlage	zie bijlage	zie bijlage	zie bijlage	zie bijlage

Paraaf :

Projectnaam	Eckeltsebeek te Bergen	Orderdatum	01-11-2019
Projectnummer	0302WAL/19	Startdatum	01-11-2019
Rapportnummer	13138114 - 1	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 :

Analyserapport

Projectnaam	Eckeltsebeek te Bergen	Orderdatum	01-11-2019
Projectnummer	0302WAL/19	Startdatum	01-11-2019
Rapportnummer	13138114 - 1	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
ANALYSES UITGEVOERD DOOR DERDEN							
PFAS (30) en GENX			zie bijlage	zie bijlage	zie bijlage	zie bijlage	zie bijlage

Paraaf :

Projectnaam	Eckeltsebeek te Bergen	Orderdatum	01-11-2019
Projectnummer	0302WAL/19	Startdatum	01-11-2019
Rapportnummer	13138114 - 1	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	Orderdatum	01-11-2019
Projectnummer	0302WAL/19	Startdatum	01-11-2019
Rapportnummer	13138114 - 1	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
ANALYSES UITGEVOERD DOOR DERDEN							
PFAS (30) en GENX			zie bijlage	zie bijlage	zie bijlage	zie bijlage	zie bijlage

Paraaf :

Projectnaam	Eckeltsebeek te Bergen	Orderdatum	01-11-2019
Projectnummer	0302WAL/19	Startdatum	01-11-2019
Rapportnummer	13138114 - 1	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 :

Analyserapport

Projectnaam	Eckeltsebeek te Bergen	Orderdatum	01-11-2019
Projectnummer	0302WAL/19	Startdatum	01-11-2019
Rapportnummer	13138114 - 1	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 :

Projectnaam	Eckeltsebeek te Bergen	Orderdatum	01-11-2019
Projectnummer	0302WAL/19	Startdatum	01-11-2019
Rapportnummer	13138114 - 1	Rapportagedatum	13-11-2019

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.

Paraaf :

MIL.TECH.ADV.BUREAU HEEL
Mike de Vaan

Analyserapport

Projectnaam	Eckeltsebeek te Bergen	Orderdatum	01-11-2019
Projectnummer	0302WAL/19	Startdatum	01-11-2019
Rapportnummer	13138114 - 1	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 :

MIL.TECH.ADV.BUREAU HEEL
Mike de Vaan

Analyserapport

Projectnaam	Eckeltsebeek te Bergen	Orderdatum	01-11-2019
Projectnummer	0302WAL/19	Startdatum	01-11-2019
Rapportnummer	13138114 - 1	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 :

MIL.TECH.ADV.BUREAU HEEL
Mike de Vaan

Analyserapport

Projectnaam	Eckeltsebeek te Bergen	Orderdatum	01-11-2019
Projectnummer	0302WAL/19	Startdatum	01-11-2019
Rapportnummer	13138114 - 1	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 :

Analyserapport

Projectnaam	Eckeltsebeek te Bergen	Orderdatum	01-11-2019
Projectnummer	0302WAL/19	Startdatum	01-11-2019
Rapportnummer	13138114 - 1	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

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.	Perfluornonanoic 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. (*)	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.	Perfluorbutanoicsulphon.PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.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 = Perfluoroctane acid PFOS = Perfluoroctane 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

Ackred. nr 1006
Provning
ISO/IEC 17025

REPORT

issued by an Accredited Laboratory

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. (*)	Perfluordecanoicsulpho. 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.	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 N-MeFOSAA due to disturbances from other substances in the sample.

Linköping 2019-11-13
The report has been reviewed and approved by

Emil Johansson
Responsible reviewer
Control numbers 5783 0516 5919 3585

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

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.	Perfluornonanoic 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. (*)	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.	Perfluorbutanoicsulphon.PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.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 = Perfluoroctane acid PFOS = Perfluoroctane 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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Ackred. nr 1006
Provning
ISO/IEC 17025

REPORT

issued by an Accredited Laboratory

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. (*)	Perfluordecanoicsulpho. 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.	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	< 0.5		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

Emil Johansson
Responsible reviewer
Control numbers 5688 0116 5119 3881

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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.	Perfluornonanoic 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. (*)	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.	Perfluorbutanoicsulphon.PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.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 = Perfluoroctane acid PFOS = Perfluoroctane 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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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. (*)	Perfluordecanoicsulpho. 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

Patric Eklundh
Responsible reviewer
Control numbers 5585 0616 5215 3381

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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.	Perfluornonanoic 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. (*)	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.	Perfluorbutanoicsulphon.PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.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 = Perfluoroctane acid PFOS = Perfluoroctane 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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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. (*)	Perfluordecanoicsulpho. 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

Patric Eklundh
Responsible reviewer
Control numbers 5488 0516 5910 3780

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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.	Perfluornonanoic 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. (*)	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.	Perfluorbutanoicsulphon.PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.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 = Perfluoroctane acid PFOS = Perfluoroctane 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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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. (*)	Perfluordecanoicsulpho. 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

Patric Eklundh
Responsible reviewer
Control numbers 5385 0416 5915 3380

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Assigner

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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*
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.	Perfluornonanoic 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. (*)	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.	Perfluorbutanoicsulphon.PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.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 = Perfluoroctane acid PFOS = Perfluoroctane 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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Ackred. nr 1006
Provning
ISO/IEC 17025

REPORT

issued by an Accredited Laboratory

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. (*)	Perfluordecanoicsulpho. 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

Patric Eklundh
Responsible reviewer
Control numbers 5287 0716 5119 3783

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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.	Perfluornonanoic 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. (*)	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.	Perfluorbutanoicsulphon.PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.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 = Perfluoroctane acid PFOS = Perfluoroctane 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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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. (*)	Perfluordecanoicsulpho. 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

Patric Eklundh
Responsible reviewer
Control numbers 5181 0916 5618 3388

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Assigner

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Rotterdam

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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.	Perfluornonanoic 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. (*)	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.	Perfluorbutanoicsulphon.PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.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 = Perfluoroctane acid PFOS = Perfluoroctane 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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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*
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. (*)	Perfluordecanoicsulpho. 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

Patric Eklundh
Responsible reviewer
Control numbers 5089 0216 5718 3286

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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.	Perfluornonanoic 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. (*)	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.	Perfluorbutanoicsulphon.PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.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 = Perfluoroctane acid PFOS = Perfluoroctane 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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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. (*)	Perfluordecanoicsulpho. 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.	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 10:2 FTS due to disturbances from other substances in the sample.

Linköping 2019-11-13

The report has been reviewed and approved by

Emil Johansson
Responsible reviewer

Control numbers 4983 0165 5711 3187

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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.	Perfluornonanoic 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. (*)	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.	Perfluorbutanoicsulphon.PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.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 = Perfluoroctane acid PFOS = Perfluoroctane 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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Assigner

SYNLAB Analytics & Services BV
Rotterdam

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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. (*)	Perfluordecanoicsulpho. 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.	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 10:2 FTS due to disturbances from other substances in the sample.

Linköping 2019-11-13

The report has been reviewed and approved by

Emil Johansson
Responsible reviewer

Control numbers 4884 0164 5313 3980

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Ackred. nr 1006
Provning
ISO/IEC 17025

REPORT

issued by an Accredited Laboratory

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.	Perfluornonanoic 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. (*)	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.	Perfluorbutanoicsulphon.PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.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 = Perfluoroctane acid PFOS = Perfluoroctane 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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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. (*)	Perfluordecanoicsulpho. 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

Patric Eklundh
Responsible reviewer
Control numbers 4784 0161 5017 3687

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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.	Perfluornonanoic 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. (*)	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.	Perfluorbutanoicsulphon.PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.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 = Perfluoroctane acid PFOS = Perfluoroctane 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

issued by an Accredited Laboratory

Report No. 19486153

Assigner

SYNLAB Analytics & Services BV
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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. (*)	Perfluordecanoicsulpho. 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

Patric Eklundh
Responsible reviewer
Control numbers 4687 0160 5717 3083

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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.	Perfluornonanoic 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. (*)	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.	Perfluorbutanoicsulphon.PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.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 = Perfluoroctane acid PFOS = Perfluoroctane 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

issued by an Accredited Laboratory

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. (*)	Perfluordecanoicsulpho. 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

Patric Eklundh
Responsible reviewer
Control numbers 4589 0163 5113 3686

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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	: (13138114-014) 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.	Perfluornonanoic 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. (*)	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.	Perfluorbutanoicsulphon.PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.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 = Perfluoroctane acid PFOS = Perfluoroctane 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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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. (*)	Perfluordecanoicsulpho. 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

Patric Eklundh
Responsible reviewer
Control numbers 4482 0168 5719 3684

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Ackred. nr 1006
Provning
ISO/IEC 17025

REPORT

issued by an Accredited Laboratory

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.	Perfluornonanoic 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. (*)	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.	Perfluorbutanoicsulphon.PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.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 = Perfluoroctane acid PFOS = Perfluoroctane 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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Assigner

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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. (*)	Perfluordecanoicsulpho. 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

Patric Eklundh
Responsible reviewer
Control numbers 4386 0168 5417 3583

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Assigner

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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.	Perfluornonanoic 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. (*)	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.	Perfluorbutanoicsulphon.PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.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 = Perfluoroctane acid PFOS = Perfluoroctane 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. 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. (*)	Perfluordecanoicsulpho. 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

Patric Eklundh
Responsible reviewer
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Analyserapport

MIL.TECH.ADV.BUREAU HEEL
Mike de Vaan
Postbus 5049
6097 ZG HEEL

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,

Jaap-Willem Hutter
Technical Director

MIL.TECH.ADV.BUREAU HEEL
Mike de Vaan

Analyserapport

Projectnaam	Eckeltsebeek te Bergen	Orderdatum	05-11-2019
Projectnummer	0302WAL/19	Startdatum	05-11-2019
Rapportnummer	13139734 - 1	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
ANALYSES UITGEVOERD DOOR DERDEN							
PFAS (30) en GENX			zie bijlage	zie bijlage	zie bijlage	zie bijlage	zie bijlage

Paraaf :

Projectnaam	Eckeltsebeek te Bergen	Orderdatum	05-11-2019
Projectnummer	0302WAL/19	Startdatum	05-11-2019
Rapportnummer	13139734 - 1	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 :

Analyserapport

Projectnaam	Eckeltsebeek te Bergen	Orderdatum	05-11-2019
Projectnummer	0302WAL/19	Startdatum	05-11-2019
Rapportnummer	13139734 - 1	Rapportagedatum	19-11-2019

Nummer	Monstersoort	Monsterspecificatie
006	Waterbodem (AS3000)	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)
007	Waterbodem (AS3000)	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)
008	Waterbodem (AS3000)	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)
009	Waterbodem (AS3000)	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)
010	Waterbodem (AS3000)	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)

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

Paraaf :

Projectnaam	Eckeltsebeek te Bergen	Orderdatum	05-11-2019
Projectnummer	0302WAL/19	Startdatum	05-11-2019
Rapportnummer	13139734 - 1	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	Orderdatum	05-11-2019
Projectnummer	0302WAL/19	Startdatum	05-11-2019
Rapportnummer	13139734 - 1	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
ANALYSES UITGEVOERD DOOR DERDEN							
PFAS (30) en GENX			zie bijlage	zie bijlage	zie bijlage	zie bijlage	zie bijlage

Paraaf :

Projectnaam	Eckeltsebeek te Bergen	Orderdatum	05-11-2019
Projectnummer	0302WAL/19	Startdatum	05-11-2019
Rapportnummer	13139734 - 1	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 :

Analyserapport

Projectnaam	Eckeltsebeek te Bergen	Orderdatum	05-11-2019
Projectnummer	0302WAL/19	Startdatum	05-11-2019
Rapportnummer	13139734 - 1	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 O9 O24 (0-50) O27 (0-50) O28 (0-50)
018	Waterbodem (AS3000)	MM O10 O26 (0-50) O68 (0-50)
019	Waterbodem (AS3000)	MM O11 O29 (0-50) O30 (0-50) O31 (0-50)
020	Waterbodem (AS3000)	MM O12 O32 (0-50) O33 (0-50) O34 (0-50)

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

Paraaf :

Projectnaam	Eckeltsebeek te Bergen	Orderdatum	05-11-2019
Projectnummer	0302WAL/19	Startdatum	05-11-2019
Rapportnummer	13139734 - 1	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	Orderdatum	05-11-2019
Projectnummer	0302WAL/19	Startdatum	05-11-2019
Rapportnummer	13139734 - 1	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 :

Projectnaam	Eckeltsebeek te Bergen	Orderdatum	05-11-2019
Projectnummer	0302WAL/19	Startdatum	05-11-2019
Rapportnummer	13139734 - 1	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	Orderdatum	05-11-2019
Projectnummer	0302WAL/19	Startdatum	05-11-2019
Rapportnummer	13139734 - 1	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
ANALYSES UITGEVOERD DOOR DERDEN							
PFAS (30) en GENX			zie bijlage	zie bijlage	zie bijlage	zie bijlage	zie bijlage

Paraaf :

Projectnaam	Eckeltsebeek te Bergen	Orderdatum	05-11-2019
Projectnummer	0302WAL/19	Startdatum	05-11-2019
Rapportnummer	13139734 - 1	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	Orderdatum	05-11-2019
Projectnummer	0302WAL/19	Startdatum	05-11-2019
Rapportnummer	13139734 - 1	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
ANALYSES UITGEVOERD DOOR DERDEN							
PFAS (30) en GENX			zie bijlage	zie bijlage	zie bijlage	zie bijlage	zie bijlage

Paraaf :

Projectnaam	Eckeltsebeek te Bergen	Orderdatum	05-11-2019
Projectnummer	0302WAL/19	Startdatum	05-11-2019
Rapportnummer	13139734 - 1	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 :

MIL.TECH.ADV.BUREAU HEEL
Mike de Vaan

Analyserapport

Projectnaam	Eckeltsebeek te Bergen	Orderdatum	05-11-2019
Projectnummer	0302WAL/19	Startdatum	05-11-2019
Rapportnummer	13139734 - 1	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 :

MIL.TECH.ADV.BUREAU HEEL
Mike de Vaan

Analyserapport

Projectnaam	Eckeltsebeek te Bergen	Orderdatum	05-11-2019
Projectnummer	0302WAL/19	Startdatum	05-11-2019
Rapportnummer	13139734 - 1	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 :

Analyserapport

Projectnaam	Eckeltsebeek te Bergen	Orderdatum	05-11-2019
Projectnummer	0302WAL/19	Startdatum	05-11-2019
Rapportnummer	13139734 - 1	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 :

Analyserapport

Projectnaam	Eckeltsebeek te Bergen	Orderdatum	05-11-2019
Projectnummer	0302WAL/19	Startdatum	05-11-2019
Rapportnummer	13139734 - 1	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 :

Analyserapport

Projectnaam	Eckeltsebeek te Bergen	Orderdatum	05-11-2019
Projectnummer	0302WAL/19	Startdatum	05-11-2019
Rapportnummer	13139734 - 1	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

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.	Perfluornonanoic 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. (*)	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.	Perfluorbutanoicsulphon.PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.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 = Perfluoroctane acid PFOS = Perfluoroctane 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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Assigner

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3194AG ROTTERDAM, NL

Applies to

Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival	: 2019-11-12
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. (*)	Perfluordecanoicsulpho. 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

Patric Eklundh
Responsible reviewer
Control numbers 1116 8602 5903 2023

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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.	Perfluornonanoic 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. (*)	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.	Perfluorbutanoicsulphon.PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.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 = Perfluoroctane acid PFOS = Perfluoroctane 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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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. (*)	Perfluordecanoicsulpho. 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

Patric Eklundh
Responsible reviewer

Control numbers 1016 8901 5809 2125

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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.	Perfluornonanoic 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. (*)	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.	Perfluorbutanoicsulphon.PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.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 = Perfluoroctane acid PFOS = Perfluoroctane 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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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. (*)	Perfluordecanoicsulpho. 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

Patric Eklundh
Responsible reviewer
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REPORT

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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.	Perfluornonanoic 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. (*)	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.	Perfluorbutanoicsulphon.PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.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 = Perfluoroctane acid PFOS = Perfluoroctane 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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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. (*)	Perfluordecanoicsulpho. 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

Patric Eklundh
Responsible reviewer
Control numbers 0168 8800 5001 2721

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REPORT

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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.	Perfluornonanoic 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. (*)	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.	Perfluorbutanoicsulphon.PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.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 = Perfluoroctane acid PFOS = Perfluoroctane 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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Ackred. nr 1006
Provning
ISO/IEC 17025

REPORT

issued by an Accredited Laboratory

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. (*)	Perfluordecanoicsulpho. 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

Patric Eklundh
Responsible reviewer
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Ackred. nr 1006
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REPORT

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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.	Perfluornonanoic 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. (*)	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.	Perfluorbutanoicsulphon.PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.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 = Perfluoroctane acid PFOS = Perfluoroctane 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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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. (*)	Perfluordecanoicsulpho. 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

Patric Eklundh
Responsible reviewer
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Assigner

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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.	Perfluornonanoic 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. (*)	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.	Perfluorbutanoicsulphon.PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.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 = Perfluoroctane acid PFOS = Perfluoroctane 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

issued by an Accredited Laboratory

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. (*)	Perfluordecanoicsulpho. 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

Patric Eklundh
Responsible reviewer
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REPORT

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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.	Perfluornonanoic 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. (*)	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.	Perfluorbutanoicsulphon.PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.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 = Perfluoroctane acid PFOS = Perfluoroctane 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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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. (*)	Perfluordecanoicsulpho. 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

Patric Eklundh
Responsible reviewer

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REPORT

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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.	Perfluornonanoic 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. (*)	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.	Perfluorbutanoicsulphon.PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.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 = Perfluoroctane acid PFOS = Perfluoroctane 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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Ackred. nr 1006
Provning
ISO/IEC 17025

REPORT

issued by an Accredited Laboratory

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. (*)	Perfluordecanoicsulpho. 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

Patric Eklundh
Responsible reviewer

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Ackred. nr 1006
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REPORT

issued by an Accredited Laboratory

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.	Perfluornonanoic 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. (*)	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.	Perfluorbutanoicsulphon.PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.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 = Perfluoroctane acid PFOS = Perfluoroctane 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

issued by an Accredited Laboratory

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. (*)	Perfluordecanoicsulpho. 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

Patric Eklundh
Responsible reviewer

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REPORT

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Report No. 19497798

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
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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.	Perfluornonanoic 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. (*)	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.	Perfluorbutanoicsulphon.PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.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 = Perfluoroctane acid PFOS = Perfluoroctane 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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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. (*)	Perfluordecanoicsulpho. 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

Patric Eklundh
Responsible reviewer
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Ackred. nr 1006
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ISO/IEC 17025

REPORT

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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*
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.	Perfluornonanoic 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. (*)	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.	Perfluorbutanoicsulphon.PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.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 = Perfluoroctane acid PFOS = Perfluoroctane 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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Ackred. nr 1006
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REPORT

issued by an Accredited Laboratory

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. (*)	Perfluordecanoicsulpho. 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

Patric Eklundh
Responsible reviewer

Control numbers 0160 8301 5308 2122

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Ackred. nr 1006
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REPORT

issued by an Accredited Laboratory

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.	Perfluornonanoic 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. (*)	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.	Perfluorbutanoicsulphon.PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.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 = Perfluoroctane acid PFOS = Perfluoroctane 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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Ackred. nr 1006
Provning
ISO/IEC 17025

REPORT

issued by an Accredited Laboratory

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. (*)	Perfluordecanoicsulpho. 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

Patric Eklundh
Responsible reviewer
Control numbers 9987 0958 0216 2118

SYNLAB Analytics & Services Sweden AB
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Ackred. nr 1006
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REPORT

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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.	Perfluornonanoic 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. (*)	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.	Perfluorbutanoicsulphon.PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.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 = Perfluoroctane acid PFOS = Perfluoroctane 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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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. (*)	Perfluordecanoicsulpho. 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

Patric Eklundh
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REPORT

issued by an Accredited Laboratory

Report No. 19497802

Assigner

SYNLAB Analytics & Services BV
Rotterdam

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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.	Perfluornonanoic 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. (*)	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.	Perfluorbutanoicsulphon.PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.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 = Perfluoroctane acid PFOS = Perfluoroctane 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

issued by an Accredited Laboratory

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. (*)	Perfluordecanoicsulpho. 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

Patric Eklundh
Responsible reviewer
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Ackred. nr 1006
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ISO/IEC 17025

REPORT

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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.	Perfluornonanoic 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. (*)	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.	Perfluorbutanoicsulphon.PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.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 = Perfluoroctane acid PFOS = Perfluoroctane 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. 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. (*)	Perfluordecanoicsulpho. 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

Patric Eklundh
Responsible reviewer
Control numbers 9680 0750 0516 2517

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Assigner

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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.	Perfluornonanoic 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, PFTrDA	< 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.	Perfluorbutanoicsulphon.PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.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 = Perfluoroctane acid PFOS = Perfluoroctane 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. 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*
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. (*)	Perfluordecanoicsulpho. 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

Patric Eklundh
Responsible reviewer
Control numbers 9585 0455 0616 2815

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Registered 556152-0916 Registered office: Linköping, Sweden

Ackred. nr 1006
Provning
ISO/IEC 17025

REPORT

issued by an Accredited Laboratory

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.	Perfluornonanoic 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, PFTrDA	< 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.	Perfluorbutanoicsulphon.PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.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 = Perfluoroctane acid PFOS = Perfluoroctane 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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Ackred. nr 1006
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REPORT

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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. (*)	Perfluordecanoicsulpho. 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

Patric Eklundh
Responsible reviewer
Control numbers 9481 0550 0416 2512

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Ackred. nr 1006
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REPORT

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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.	Perfluornonanoic 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. (*)	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.	Perfluorbutanoicsulphon.PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.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 = Perfluoroctane acid PFOS = Perfluoroctane 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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Ackred. nr 1006
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REPORT

issued by an Accredited Laboratory

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. (*)	Perfluordecanoicsulpho. 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

Patric Eklundh
Responsible reviewer
Control numbers 9380 0256 0116 2514

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REPORT

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Assigner

SYNLAB Analytics & Services BV
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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.	Perfluornonanoic 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. (*)	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.	Perfluorbutanoicsulphon.PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.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 = Perfluoroctane acid PFOS = Perfluoroctane 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

issued by an Accredited Laboratory

Report No. 19497807

Assigner

SYNLAB Analytics & Services BV
Rotterdam

Steenhouwerstraat 15
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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. (*)	Perfluordecanoicsulpho. 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

Patric Eklundh
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Assigner

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Rotterdam

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3194AG ROTTERDAM, NL

Applies to

Sediment

Level 1 : Rotterdam Nautilus Order

Information about sample and sampling

Date of Arrival	: 2019-11-12
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.	Perfluornonanoic 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. (*)	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.	Perfluorbutanoicsulphon.PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.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 = Perfluoroctane acid PFOS = Perfluoroctane 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. 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. (*)	Perfluordecanoicsulpho. 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

Patric Eklundh
Responsible reviewer
Control numbers 9186 0157 0916 2210

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Ackred. nr 1006
Provning
ISO/IEC 17025

REPORT

issued by an Accredited Laboratory

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.	Perfluornonanoic 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. (*)	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.	Perfluorbutanoicsulphon.PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.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 = Perfluoroctane acid PFOS = Perfluoroctane 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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Ackred. nr 1006
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REPORT

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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. (*)	Perfluordecanoicsulpho. 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

Patric Eklundh
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Ackred. nr 1006
Provning
ISO/IEC 17025

REPORT

issued by an Accredited Laboratory

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.	Perfluornonanoic 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. (*)	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.	Perfluorbutanoicsulphon.PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.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 = Perfluoroctane acid PFOS = Perfluoroctane 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

issued by an Accredited Laboratory

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. (*)	Perfluordecanoicsulpho. 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

Patric Eklundh
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Ackred. nr 1006
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REPORT

issued by an Accredited Laboratory

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.	Perfluornonanoic 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. (*)	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.	Perfluorbutanoicsulphon.PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.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 = Perfluoroctane acid PFOS = Perfluoroctane 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

issued by an Accredited Laboratory

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. (*)	Perfluordecanoicsulpho. 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

Patric Eklundh
Responsible reviewer
Control numbers 8880 0053 0162 2916

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Ackred. nr 1006
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ISO/IEC 17025

REPORT

issued by an Accredited Laboratory

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.	Perfluornonanoic 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. (*)	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.	Perfluorbutanoicsulphon.PFBS	0.12	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.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 = Perfluoroctane acid PFOS = Perfluoroctane 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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Ackred. nr 1006
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REPORT

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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. (*)	Perfluordecanoicsulpho. 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

Patric Eklundh
Responsible reviewer

Control numbers 8786 0959 0166 2115

SYNLAB Analytics & Services Sweden AB
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Registered 556152-0916 Registered office: Linköping, Sweden

Ackred. nr 1006
Provning
ISO/IEC 17025

REPORT

issued by an Accredited Laboratory

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.	Perfluornonanoic 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. (*)	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.	Perfluorbutanoicsulphon.PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.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 = Perfluoroctane acid PFOS = Perfluoroctane 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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Assigner

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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. (*)	Perfluordecanoicsulpho. 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
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Patric Eklundh
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REPORT

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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*
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.	Perfluornonanoic 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. (*)	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.	Perfluorbutanoicsulphon.PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.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 = Perfluoroctane acid PFOS = Perfluoroctane 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. (*)	Perfluordecanoicsulpho. 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

Patric Eklundh
Responsible reviewer
Control numbers 8582 0851 0169 2512

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REPORT

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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.	Perfluornonanoic 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. (*)	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.	Perfluorbutanoicsulphon.PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.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 = Perfluoroctane acid PFOS = Perfluoroctane 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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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. (*)	Perfluordecanoicsulpho. 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

Patric Eklundh
Responsible reviewer
Control numbers 8482 0555 0166 2416

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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	: (13139734-029) 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.	Perfluornonanoic 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. (*)	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.	Perfluorbutanoicsulphon.PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.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 = Perfluoroctane acid PFOS = Perfluoroctane 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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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. (*)	Perfluordecanoicsulpho. 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

Patric Eklundh
Responsible reviewer
Control numbers 8382 0659 0164 2710

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REPORT

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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.	Perfluornonanoic 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. (*)	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.	Perfluorbutanoicsulphon.PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.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 = Perfluoroctane acid PFOS = Perfluoroctane 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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Ackred. nr 1006
Provning
ISO/IEC 17025

REPORT

issued by an Accredited Laboratory

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*
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. (*)	Perfluordecanoicsulpho. 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

Patric Eklundh
Responsible reviewer
Control numbers 8288 0855 0169 2516

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Ackred. nr 1006
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REPORT

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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.	Perfluornonanoic 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. (*)	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.	Perfluorbutanoicsulphon.PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.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 = Perfluoroctane acid PFOS = Perfluoroctane 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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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. (*)	Perfluordecanoicsulpho. 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

Patric Eklundh
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Report No. 19497819

Assigner

SYNLAB Analytics & Services BV
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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.	Perfluornonanoic 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. (*)	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.	Perfluorbutanoicsulphon.PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.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 = Perfluoroctane acid PFOS = Perfluoroctane 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

issued by an Accredited Laboratory

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*
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. (*)	Perfluordecanoicsulpho. 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

Patric Eklundh
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Ackred. nr 1006
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ISO/IEC 17025

REPORT

issued by an Accredited Laboratory

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.	Perfluornonanoic 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. (*)	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.	Perfluorbutanoicsulphon.PFBS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.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 = Perfluoroctane acid PFOS = Perfluoroctane 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

issued by an Accredited Laboratory

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*
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. (*)	Perfluordecanoicsulpho. 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

Patric Eklundh
Responsible reviewer
Control numbers 7983 0955 1602 2013

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Ackred. nr 1006
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ISO/IEC 17025

REPORT

issued by an Accredited Laboratory

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.	Perfluornonanoic 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. (*)	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.	Perfluorbutanoicsulphon.PFBS	0.19	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.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 = Perfluoroctane acid PFOS = Perfluoroctane 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
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Registered 556152-0916 Registered office: Linköping, Sweden

Ackred. nr 1006
Provning
ISO/IEC 17025

REPORT

issued by an Accredited Laboratory

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. (*)	Perfluordecanoicsulpho. 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

Patric Eklundh
Responsible reviewer
Control numbers 7887 0859 1606 2412

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Ackred. nr 1006
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REPORT

issued by an Accredited Laboratory

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.	Perfluornonanoic 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. (*)	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.	Perfluorbutanoicsulphon.PFBS	< 0.3	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorpentanoicsulph.PFPeS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorhexanoicsulpho.PFHxS	< 0.1	± 0.10	ug/kg TS
DIN 38414-14 mod.	Perfluorheptanoicsulph.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 = Perfluoroctane acid PFOS = Perfluoroctane 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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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. (*)	Perfluordecanoicsulpho. 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

Emil Johansson
Responsible reviewer
Control numbers 7780 0759 1605 2219

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