



Date 19.10.2021

Sample arrived 12.10.2021

Our reference: EUAA55-00007746

Client Code: EP0000006

Maves OÜ

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Sample number	337-2021-00024214	337-2021-00024215	337-2021-00024216	337-2021-00024217	337-2021-00024218
Client sample code	K-1	K-2	K-3	K-4	K-5
Sample reference	K-1 kesendatud proov Soil	K-2 kesendatud proov Soil	K-3 kesendatud proov Soil	K-4 kesendatud proov Soil	K-5 kesendatud proov Soil
Sample description					
Sampling date and time	12.10.2021.00:00	12.10.2021.00:00	12.10.2021.00:00	12.10.2021.00:00	12.10.2021.00:00

Physico-chemical test

Dry matter	EPDRY	%	90	90	89	89	89
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HYDROCARBONS

Nonpolar TPH C10-C21	EPTPH	mg/kg dw	4200	2000	2900	1700	1900
Nonpolar TPH C21-C40	EPTPH	mg/kg dw	580	280	320	180	250
Nonpolar TPH C10-C40	EPTPH	mg/kg dw	4800	2200	3200	1900	2200

PAH

Pyrene	EP05H	mg/kg dw	29	16	19	14	14
Anthracene	EP05E	mg/kg dw	26	20	21	12	15
Phenanthrene	EP05F	mg/kg dw	130	64	56	76	48
Benzo(a)pyrene	EP05C	mg/kg dw	4,3	2,6	2,9	2,2	2,3
Acenaphthene	EP05R	mg/kg dw	40	12	13	22	12
Chrysene	EP05N	mg/kg dw	12	6,9	8,0	5,7	6,2
Naphthalene	EP05P	mg/kg dw	640	120	120	390	330

Methyl- and dimethylnaphthalenes

1-Methylnaphthalene	EPP02	mg/kg dw	310	130	140	150	140
2-Methylnaphthalene	EPP02	mg/kg dw	450	180	190	220	200
1,2-dimethylnaphthalene	EPP02	mg/kg dw	38	17	20	16	18
1,3-, 1,7- and 1,6-dimethylnaphthalene	EPP02	mg/kg dw	190	86	100	81	88
1,4-, 1,5- and 2,3-dimethylnaphthalene	EPP02	mg/kg dw	75	34	41	31	35
1,8-dimethylnaphthalene	EPP02	mg/kg dw	6,4	2,8	3,4	2,6	3,0
2,6-Dimethylnaphthalene / 2,7-Dimethylnaphthalene	EPP02	mg/kg dw	76	33	43	36	37



Date 19.10.2021

Sample number	337-2021-00024214	337-2021-00024215	337-2021-00024216	337-2021-00024217	337-2021-00024218
Client sample code	K-1	K-2	K-3	K-4	K-5

Sample reference	K-1 kesendatud proov Soil	K-2 kesendatud proov Soil	K-3 kesendatud proov Soil	K-4 kesendatud proov Soil	K-5 kesendatud proov Soil
Sample description					
Sampling date and time	12.10.2021.00:00	12.10.2021.00:00	12.10.2021.00:00	12.10.2021.00:00	12.10.2021.00:00

2,6-Dimethylnaphthalen e / 2,7-Dimethylnaphthalen e	EPP02	mg/kg dw	76	33	43	36	37
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SumPAH(14) Estonian regulation no 26

Sum PAH	EPP26	mg/kg dw	2000	720	790	1100	950
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ICP-MS related test

Aqua regia digestion	EPE05	Done	Done	Done	Done	Done
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Elements

Iron (Fe)	EP0G3	mg/kg dw	8100	8400	9700	11000	9400
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Sample number	337-2021-00024219	337-2021-00024220	337-2021-00024221	337-2021-00024222	337-2021-00024223
Client sample code	K-6	K-7	K-8	K-9	K-10

Sample reference	K-6 kesendatud proov Soil	K-7 kesendatud proov Soil	K-8 kesendatud proov Soil	K-9 kesendatud proov Soil	K-10 kesendatud proov Soil
Sample description					
Sampling date and time	12.10.2021.00:00	12.10.2021.00:00	12.10.2021.00:00	12.10.2021.00:00	12.10.2021.00:00

Physico-chemical test

Dry matter	EPDRY	%	89	90	90	87	87
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HYDROCARBONS

Nonpolar TPH C10-C21	EPTPH	mg/kg dw	2200	1900	2100	2500	2000
Nonpolar TPH C21-C40	EPTPH	mg/kg dw	380	270	280	410	280
Nonpolar TPH C10-C40	EPTPH	mg/kg dw	2600	2200	2400	2900	2300

PAH

Pyrene	EP05H	mg/kg dw	25	22	23	17	15
Anthracene	EP05E	mg/kg dw	68	31	23	20	15
Phenanthrene	EP05F	mg/kg dw	71	69	110	60	64
Benzo(a)pyrene	EP05C	mg/kg dw	3,4	3,3	3,5	3,1	2,4
Acenaphthene	EP05R	mg/kg dw	17	19	33	11	11
Chrysene	EP05N	mg/kg dw	9,6	8,7	11	7,2	6,1
Naphthalene	EP05P	mg/kg dw	86	150	480	150	340

Methyl- and dimethylnaphthalenes

1-Methylnaphthalene	EPP02	mg/kg dw	110	110	210	150	150
2-Methylnaphthalene	EPP02	mg/kg dw	120	120	280	220	210
1,2-dimethylnaphthalen e	EPP02	mg/kg dw	26	27	26	20	19
1,3-, 1,7- and 1,6-dimethylnaphthalen e	EPP02	mg/kg dw	120	130	120	98	93
1,4-, 1,5- and 2,3-dimethylnaphthalen e	EPP02	mg/kg dw	53	53	47	38	37
1,8-dimethylnaphthalen e	EPP02	mg/kg dw	4,8	4,8	4,4	3,0	3,2



Sample number	337-2021-00024219	337-2021-00024220	337-2021-00024221	337-2021-00024222	337-2021-00024223
Client sample code	K-6	K-7	K-8	K-9	K-10

Sample reference	K-6 kesendatud proov Soil	K-7 kesendatud proov Soil	K-8 kesendatud proov Soil	K-9 kesendatud proov Soil	K-10 kesendatud proov Soil
Sample description					
Sampling date and time	12.10.2021.00:00	12.10.2021.00:00	12.10.2021.00:00	12.10.2021.00:00	12.10.2021.00:00

1,8-dimethylnaphthalen e	EPP02	mg/kg dw	4,8	4,8	4,4	3,0	3,2
2,6-Dimethylnaphthalen e /	EPP02	mg/kg dw	48	57	53	40	37
2,7-Dimethylnaphthalen e							

SumPAH(14) Estonian regulation no 26

Sum PAH	EPP26	mg/kg dw	770	800	1400	840	1000
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ICP-MS related test

Aqua regia digestion	EPE05		Done	Done	Done	Done	Done
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Elements

Iron (Fe)	EP0G3	mg/kg dw	8400	9200	8800	8500	11000
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Sample number	337-2021-00024224	337-2021-00024225
Client sample code	K-11	K-12

Sample reference	K-11 kesendatud proov Soil	K-12 kesendatud proov Soil
Sample description		
Sampling date and time	12.10.2021.00:00	12.10.2021.00:00

Physico-chemical test

Dry matter	EPDRY	%	89	89
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HYDROCARBONS

Nonpolar TPH C10-C21	EPTPH	mg/kg dw	2200	2700
Nonpolar TPH C21-C40	EPTPH	mg/kg dw	340	540
Nonpolar TPH C10-C40	EPTPH	mg/kg dw	2600	3200

PAH

Pyrene	EP05H	mg/kg dw	18	22
Anthracene	EP05E	mg/kg dw	17	24
Phenanthrene	EP05F	mg/kg dw	52	110
Benzo(a)pyrene	EP05C	mg/kg dw	2,8	3,5
Acenaphthene	EP05R	mg/kg dw	12	44
Chrysene	EP05N	mg/kg dw	6,5	11
Naphthalene	EP05P	mg/kg dw	130	670

Methyl- and dimethylnaphthalenes

1-Methylnaphthalene	EPP02	mg/kg dw	140	220
2-Methylnaphthalene	EPP02	mg/kg dw	200	310
1,2-dimethylnaphthalen e	EPP02	mg/kg dw	21	21
1,3-, 1,7- and 1,6-dimethylnaphthalen e	EPP02	mg/kg dw	92	110
1,4-, 1,5- and 2,3-dimethylnaphthalen e	EPP02	mg/kg dw	39	41



Sample number	337-2021-00024224	337-2021-00024225
Client sample code	K-11	K-12

Sample reference	K-11 kesendatud proov Soil	K-12 kesendatud proov Soil
Sample description		
Sampling date and time	12.10.2021.00:00	12.10.2021.00:00

1,4-, 1,5- and 2,3-dimethylnaphthalen e	EPP02	mg/kg dw	39	41
1,8-dimethylnaphthalen e	EPP02	mg/kg dw	3,6	3,2
2,6-Dimethylnaphthalen e / 2,7-Dimethylnaphthalen e	EPP02	mg/kg dw	35	45

SumPAH(14) Estonian regulation no 26

Sum PAH	EPP26	mg/kg dw	770	1600
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ICP-MS related test

Aqua regia digestion	EPE05	Done	Done
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Elements

Iron (Fe)	EP0G3	mg/kg dw	8800	9000
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Method information

Testcode	Parameter name	Default MU	Default LOQ	Accredited	Method	Laboratory
Physico-chemical test						
EPDRY	Dry matter	10% $\times$ <70% 3% $\times$ ≥70%	3	Yes	Internal method RA9000 based on ISO 11465:1993, Gravimetry	EP L272
HYDROCARBONS						
EPTPH	Nonpolar TPH C10-C21	40%	20	Yes	Internal Method RA9002A based on SFS-EN ISO 16703:2011, GC-FID	EP L272
EPTPH	Nonpolar TPH C21-C40	40%	20	Yes	Internal Method RA9002A based on SFS-EN ISO 16703:2011, GC-FID	EP L272
EPTPH	Nonpolar TPH C10-C40	40%	20	Yes	Internal Method RA9002A based on SFS-EN ISO 16703:2011, GC-FID	EP L272
PAH						
EP05H	Pyrene	40%	0.003	Yes	Reflab metode 4:2008; SPIMFAB (SPI MILJÖSANERINGSFOND AB – method of the Association of Swedish Oil Companies); ISO 18287:2005; CEN/TS 16181:2013	EP L272
EP05E	Anthracene	40%	0.003	Yes	Reflab metode 4:2008; SPIMFAB (SPI MILJÖSANERINGSFOND AB – method of the Association of Swedish Oil Companies); ISO 18287:2005; CEN/TS 16181:2013	EP L272
EP05F	Phenanthrene	40%	0.003	Yes	Reflab metode 4:2008; SPIMFAB (SPI MILJÖSANERINGSFOND AB – method of the Association of Swedish Oil Companies); ISO 18287:2005; CEN/TS 16181:2013	EP L272
EP05C	Benzo(a)pyrene	40%	0.003	Yes	Reflab metode 4:2008; SPIMFAB (SPI MILJÖSANERINGSFOND AB – method of the Association of Swedish Oil Companies); ISO 18287:2005; CEN/TS 16181:2013	EP L272
EP05R	Acenaphthene	40%	0.003	Yes	Reflab metode 4:2008; SPIMFAB (SPI MILJÖSANERINGSFOND AB – method of the Association of Swedish Oil Companies); ISO 18287:2005; CEN/TS 16181:2013	EP L272
EP05N	Chrysene	40%	0.003	Yes	Reflab metode 4:2008; SPIMFAB (SPI MILJÖSANERINGSFOND AB – method of the Association of Swedish Oil Companies); ISO 18287:2005; CEN/TS 16181:2013	EP L272
EP05P	Naphthalene	40%	0.003	Yes	Reflab metode 4:2008; SPIMFAB (SPI MILJÖSANERINGSFOND AB – method of the Association of Swedish Oil Companies); ISO 18287:2005; CEN/TS 16181:2013	EP L272
Methyl- and dimethylnaphthalenes						



Methyl- and dimethylnaphthalenes						
EPP02	1-Methylnaphthalene	40%	0.003	Yes	ISO 18287:2005; CEN/TS 16181:2013; Reflab metode 4:2008; SPIMFAB (SPI MILJÖSANERINGSFOND AB – method of the Association of Swedish Oil Companies)	EP L272
EPP02	2-Methylnaphthalene	40%	0.003	Yes	ISO 18287:2005; CEN/TS 16181:2013; Reflab metode 4:2008; SPIMFAB (SPI MILJÖSANERINGSFOND AB – method of the Association of Swedish Oil Companies)	EP L272
EPP02	1,2-dimethylnaphthalene	40%	0.003	Yes	ISO 18287:2005; CEN/TS 16181:2013; Reflab metode 4:2008; SPIMFAB (SPI MILJÖSANERINGSFOND AB – method of the Association of Swedish Oil Companies)	EP L272
EPP02	1,3-, 1,7- and 1,6-dimethylnaphthalene	40%	0.009	Yes	ISO 18287:2005; CEN/TS 16181:2013; Reflab metode 4:2008; SPIMFAB (SPI MILJÖSANERINGSFOND AB – method of the Association of Swedish Oil Companies)	EP L272
EPP02	1,4-, 1,5- and 2,3-dimethylnaphthalene	40%	0.009	Yes	ISO 18287:2005; CEN/TS 16181:2013; Reflab metode 4:2008; SPIMFAB (SPI MILJÖSANERINGSFOND AB – method of the Association of Swedish Oil Companies)	EP L272
EPP02	1,8-dimethylnaphthalene	40%	0.003	Yes	ISO 18287:2005; CEN/TS 16181:2013; Reflab metode 4:2008; SPIMFAB (SPI MILJÖSANERINGSFOND AB – method of the Association of Swedish Oil Companies)	EP L272
EPP02	2,6-Dimethylnaphthalene / 2,7-Dimethylnaphthalene	40%	0.006	Yes	ISO 18287:2005; CEN/TS 16181:2013; Reflab metode 4:2008; SPIMFAB (SPI MILJÖSANERINGSFOND AB – method of the Association of Swedish Oil Companies)	EP L272
SumPAH(14) Estonian regulation no 26						
EPP26	Sum PAH			Yes		EP L272
ICP-MS related test						
EPE05	Aqua regia digestion			Yes	EN 16174:2012; EPA Method 3051A:2007	EP L272
Elements						
EP0G3	Iron (Fe)	25%	30	Yes	CEN/TS 16171:2012; SFS-EN 13657:2002; SFS-EN ISO 17294-2:2016; EN ISO 17294-1:2006; EN 16173:2012	EP L272

Laboratory		
EP L272	Eurofins Environment Testing Estonia (Tallinn)	EAK acc num. EVS-EN ISO/IEC 17025:2017 EAK L272

**Method**

CEN/TS 16171:2012

EN 16174:2012

Internal method RA9000 based on Please ask the laboratory

ISO 11465:1993

Internal Method RA9002A based on

SFS-EN ISO 16703:

ISO 18287:2005

Reflab metode 4:2008

SIGNATURE

Gerda Alekand

Müügijuht

GerdaAlekand@eurofins.com

Report electronically validated by

Additional information

Sampling person: Artto Pello

Sampling location: Jüri, kesk tee

Additional information: Pahnimäe ABT territooriumi pinnas

Analysis was performed between sample arrival date and Analytical Report date.

EXPLANATORY NOTE

This certificate may only be copied as whole. The results apply solely to the samples received and analyzed. Conclusion and other comments are not accredited.



Date 25.11.2021

Sample arrived 19.11.2021

Our reference: EUAA55-00008373

Client Code: EP0000006

Maves OÜ

Technical contact for your orders Maarja-Liis Paap

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ESTONIA

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Sample number	337-2021-00029592	337-2021-00029593	337-2021-00029594	337-2021-00029595	337-2021-00029596
Client sample code	K-1	K-2	K-3	K-4	K-5
Sample reference	K-1	K-2	K-3	K-4	K-5
Sample description	Soil	Soil	Soil	Soil	Soil
Sampling date and time	19.11.2021.00:00	19.11.2021.00:00	19.11.2021.00:00	19.11.2021.00:00	19.11.2021.00:00

Physico-chemical test

Dry matter	EPDRY	%	92	91	90	88	88
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HYDROCARBONS

Nonpolar TPH C10-C21	EPTPH	mg/kg dw	2300	1800	4200	1900	2000
Nonpolar TPH C21-C40	EPTPH	mg/kg dw	350	250	490	220	350
Nonpolar TPH C10-C40	EPTPH	mg/kg dw	2600	2100	4700	2100	2300

PAH

Pyrene	EP05H	mg/kg dw	24	15	23	18	18
Anthracene	EP05E	mg/kg dw	17	14	15	16	16
Phenanthrene	EP05F	mg/kg dw	170	91	130	98	98
Benzo(a)pyrene	EP05C	mg/kg dw	3,7	2,6	3,5	2,9	2,9
Acenaphthene	EP05R	mg/kg dw	38	26	29	28	28
Chrysene	EP05N	mg/kg dw	9,5	6,9	8,6	6,5	7,3
Naphthalene	EP05P	mg/kg dw	280	200	230	58	130

Methyl- and dimethylnaphthalenes

1-Methylnaphthalene	EPP02	mg/kg dw	210	140	160	160	160
2-Methylnaphthalene	EPP02	mg/kg dw	270	180	210	130	140
1,2-dimethylnaphthalene	EPP02	mg/kg dw	17	14	14	16	16
1,3-, 1,7- and 1,6-dimethylnaphthalene	EPP02	mg/kg dw	94	72	78	86	83
1,4-, 1,5- and 2,3-dimethylnaphthalene	EPP02	mg/kg dw	33	27	27	31	30
1,8-dimethylnaphthalene	EPP02	mg/kg dw	3,1	2,5	2,5	2,9	2,8
2,6-Dimethylnaphthalene / 2,7-Dimethylnaphthalene	EPP02	mg/kg dw	48	27	25	32	31



Date 25.11.2021

Sample number	337-2021-00029592	337-2021-00029593	337-2021-00029594	337-2021-00029595	337-2021-00029596
Client sample code	K-1	K-2	K-3	K-4	K-5

Sample reference	K-1	K-2	K-3	K-4	K-5
Sample description	Soil	Soil	Soil	Soil	Soil
Sampling date and time	19.11.2021.00:00	19.11.2021.00:00	19.11.2021.00:00	19.11.2021.00:00	19.11.2021.00:00

2,6-Dimethylnaphthalene / 2,7-Dimethylnaphthalene	EPP02	mg/kg dw	48	27	25	32	31
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SumPAH(14) Estonian regulation no 26

Sum PAH	EPP26	mg/kg dw	1200	820	950	680	770
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Sample number	337-2021-00029597	337-2021-00029598	337-2021-00029599	337-2021-00029600	337-2021-00029601
Client sample code	K-6	K-7	K-8	K-9	K-10

Sample reference	K-6	K-7	K-8	K-9	K-10
Sample description	Soil	Soil	Soil	Soil	Soil
Sampling date and time	19.11.2021.00:00	19.11.2021.00:00	19.11.2021.00:00	19.11.2021.00:00	19.11.2021.00:00

Physico-chemical test

Dry matter	EPDRY	%	92	87	87	87	86
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HYDROCARBONS

Nonpolar TPH C10-C21	EPTPH	mg/kg dw	1700	1900	1300	2100	1700
Nonpolar TPH C21-C40	EPTPH	mg/kg dw	280	460	250	350	330
Nonpolar TPH C10-C40	EPTPH	mg/kg dw	1900	2300	1600	2400	2000

PAH

Pyrene	EP05H	mg/kg dw	28	23	24	23	14
Anthracene	EP05E	mg/kg dw	23	19	20	19	12
Phenanthrene	EP05F	mg/kg dw	180	150	160	140	87
Benzo(a)pyrene	EP05C	mg/kg dw	4,2	3,6	3,6	3,6	2,4
Acenaphthene	EP05R	mg/kg dw	47	39	42	34	21
Chrysene	EP05N	mg/kg dw	12	9,6	10	9,6	6,0
Naphthalene	EP05P	mg/kg dw	130	130	96	380	98

Methyl- and dimethylnaphthalenes

1-Methylnaphthalene	EPP02	mg/kg dw	240	210	240	200	120
2-Methylnaphthalene	EPP02	mg/kg dw	170	240	290	270	120
1,2-dimethylnaphthalene	EPP02	mg/kg dw	25	21	23	18	12
1,3-, 1,7- and 1,6-dimethylnaphthalene	EPP02	mg/kg dw	130	110	120	92	64
1,4-, 1,5- and 2,3-dimethylnaphthalene	EPP02	mg/kg dw	47	40	44	34	23
1,8-dimethylnaphthalene	EPP02	mg/kg dw	4,7	3,6	3,6	2,7	2,2
2,6-Dimethylnaphthalene / 2,7-Dimethylnaphthalene	EPP02	mg/kg dw	50	41	38	29	22

SumPAH(14) Estonian regulation no 26

Sum PAH	EPP26	mg/kg dw	1100	1000	1100	1300	600
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Sample number	337-2021-00029597	337-2021-00029598	337-2021-00029599	337-2021-00029600	337-2021-00029601
Client sample code	K-6	K-7	K-8	K-9	K-10

Sample reference	K-6	K-7	K-8	K-9	K-10
Sample description	Soil	Soil	Soil	Soil	Soil
Sampling date and time	19.11.2021.00:00	19.11.2021.00:00	19.11.2021.00:00	19.11.2021.00:00	19.11.2021.00:00

Sum PAH	EPP26	mg/kg dw	1100	1000	1100	1300	600
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Sample number	337-2021-00029602	337-2021-00029603
Client sample code	K-11	K-12

Sample reference	K-11	K-12
Sample description	Soil	Soil
Sampling date and time	19.11.2021.00:00	19.11.2021.00:00

Physico-chemical test

Dry matter	EPDRY	%	90	89
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HYDROCARBONS

Nonpolar TPH C10-C21	EPTPH	mg/kg dw	2100	2300
Nonpolar TPH C21-C40	EPTPH	mg/kg dw	360	360
Nonpolar TPH C10-C40	EPTPH	mg/kg dw	2400	2700

PAH

Pyrene	EP05H	mg/kg dw	20	18
Anthracene	EP05E	mg/kg dw	17	16
Phenanthrene	EP05F	mg/kg dw	130	100
Benzo(a)pyrene	EP05C	mg/kg dw	3,2	2,9
Acenaphthene	EP05R	mg/kg dw	34	29
Chrysene	EP05N	mg/kg dw	8,1	7,3
Naphthalene	EP05P	mg/kg dw	160	83

Methyl- and dimethylnaphthalenes

1-Methylnaphthalene	EPP02	mg/kg dw	200	170
2-Methylnaphthalene	EPP02	mg/kg dw	170	170
1,2-dimethylnaphthalene	EPP02	mg/kg dw	18	16
1,3-, 1,7- and 1,6-dimethylnaphthalene	EPP02	mg/kg dw	96	88
1,4-, 1,5- and 2,3-dimethylnaphthalene	EPP02	mg/kg dw	35	32
1,8-dimethylnaphthalene	EPP02	mg/kg dw	3,2	2,5
2,6-Dimethylnaphthalene / 2,7-Dimethylnaphthalene	EPP02	mg/kg dw	30	28

SumPAH(14) Estonian regulation no 26

Sum PAH	EPP26	mg/kg dw	920	760
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Method information

Testcode	Parameter name	Default MU	Default LOQ	Accredited	Method	Laboratory
Physico-chemical test						
EPDRY	Dry matter	10% $\times$ <70% 3% $\times$ ≥70%	3	Yes	Internal method RA9000 based on ISO 11465:1993, Gravimetry	EP L272
HYDROCARBONS						
EPTPH	Nonpolar TPH C10-C21	40%	20	Yes	Internal Method RA9002A based on SFS-EN ISO 16703:2011, GC-FID	EP L272
EPTPH	Nonpolar TPH C21-C40	40%	20	Yes	Internal Method RA9002A based on SFS-EN ISO 16703:2011, GC-FID	EP L272
EPTPH	Nonpolar TPH C10-C40	40%	20	Yes	Internal Method RA9002A based on SFS-EN ISO 16703:2011, GC-FID	EP L272
PAH						
EP05H	Pyrene	40%	0.003	Yes	Reflab metode 4:2008; SPIMFAB (SPI MILJÖSANERINGSFOND AB – method of the Association of Swedish Oil Companies); EVS-EN 16181:2018; ISO 18287:2006	EP L272
EP05E	Anthracene	40%	0.003	Yes	Reflab metode 4:2008; SPIMFAB (SPI MILJÖSANERINGSFOND AB – method of the Association of Swedish Oil Companies); EVS-EN 16181:2018; ISO 18287:2006	EP L272
EP05F	Phenanthrene	40%	0.003	Yes	Reflab metode 4:2008; SPIMFAB (SPI MILJÖSANERINGSFOND AB – method of the Association of Swedish Oil Companies); EVS-EN 16181:2018; ISO 18287:2006	EP L272
EP05C	Benzo(a)pyrene	40%	0.003	Yes	Reflab metode 4:2008; SPIMFAB (SPI MILJÖSANERINGSFOND AB – method of the Association of Swedish Oil Companies); EVS-EN 16181:2018; ISO 18287:2006	EP L272
EP05R	Acenaphthene	40%	0.003	Yes	Reflab metode 4:2008; SPIMFAB (SPI MILJÖSANERINGSFOND AB – method of the Association of Swedish Oil Companies); EVS-EN 16181:2018; ISO 18287:2006	EP L272
EP05N	Chrysene	40%	0.003	Yes	Reflab metode 4:2008; SPIMFAB (SPI MILJÖSANERINGSFOND AB – method of the Association of Swedish Oil Companies); EVS-EN 16181:2018; ISO 18287:2006	EP L272
EP05P	Naphthalene	40%	0.003	Yes	Reflab metode 4:2008; SPIMFAB (SPI MILJÖSANERINGSFOND AB – method of the Association of Swedish Oil Companies); EVS-EN 16181:2018; ISO 18287:2006	EP L272
Methyl- and dimethylnaphthalenes						



Date 25.11.2021

Methyl- and dimethylnaphthalenes						
EPP02	1-Methylnaphthalene	40%	0.003	Yes	ISO 18287:2006; EVS-EN 16181:2018; Reflab metode 4:2008; SPIMFAB (SPI MILJÖSANERINGSFOND AB – method of the Association of Swedish Oil Companies)	EP L272
EPP02	2-Methylnaphthalene	40%	0.003	Yes	ISO 18287:2006; EVS-EN 16181:2018; Reflab metode 4:2008; SPIMFAB (SPI MILJÖSANERINGSFOND AB – method of the Association of Swedish Oil Companies)	EP L272
EPP02	1,2-dimethylnaphthalene	40%	0.003	Yes	ISO 18287:2006; EVS-EN 16181:2018; Reflab metode 4:2008; SPIMFAB (SPI MILJÖSANERINGSFOND AB – method of the Association of Swedish Oil Companies)	EP L272
EPP02	1,3-, 1,7- and 1,6-dimethylnaphthalene	40%	0.009	Yes	ISO 18287:2006; EVS-EN 16181:2018; Reflab metode 4:2008; SPIMFAB (SPI MILJÖSANERINGSFOND AB – method of the Association of Swedish Oil Companies)	EP L272
EPP02	1,4-, 1,5- and 2,3-dimethylnaphthalene	40%	0.009	Yes	ISO 18287:2006; EVS-EN 16181:2018; Reflab metode 4:2008; SPIMFAB (SPI MILJÖSANERINGSFOND AB – method of the Association of Swedish Oil Companies)	EP L272
EPP02	1,8-dimethylnaphthalene	40%	0.003	Yes	ISO 18287:2006; EVS-EN 16181:2018; Reflab metode 4:2008; SPIMFAB (SPI MILJÖSANERINGSFOND AB – method of the Association of Swedish Oil Companies)	EP L272
EPP02	2,6-Dimethylnaphthalene / 2,7-Dimethylnaphthalene	40%	0.006	Yes	ISO 18287:2006; EVS-EN 16181:2018; Reflab metode 4:2008; SPIMFAB (SPI MILJÖSANERINGSFOND AB – method of the Association of Swedish Oil Companies)	EP L272
SumPAH(14) Estonian regulation no 26						
EPP26	Sum PAH			Yes		EP L272

Laboratory		
EP L272	Eurofins Environment Testing Estonia (Tallinn)	EAK acc num. EVS-EN ISO/IEC 17025:2017 EAK L272

Method
Internal method RA9000 based on ISO 11465:1993 Please ask the laboratory Internal Method RA9002A based on SFS-EN ISO 16703: ISO 18287:2006 Reflab metode 4:2008



SIGNATURE



Gerda Alekand

Müügijuht

GerdaAlekand@eurofins.com

Report electronically validated by

Additional information

Sampling person: Artto Pello

Sampling location: Jüri, Kesk tee

Additional information: Pahnimäe ABT territooriumi pinnas

Analysis was performed between sample arrival date and Analytical Report date.

EXPLANATORY NOTE

This certificate may only be copied as whole. The results apply solely to the samples received and analyzed. Conclusion and other comments are not accredited.



Date 28.12.2021

Sample(s) reception date 22.12.2021

Our reference: EUAA55-00008879

Client Code: EP0000006

Maves OÜ

Technical contact for your orders Maarja-Liis Paap

Artto Pello

Marja tn 4d

10617 Tallinn

ESTONIA

Email: artto@maves.ee

Sample number	337-2021-00034055	337-2021-00034056	337-2021-00034057	337-2021-00034058	337-2021-00034059
Client sample code	K-1	K-2	K-3	K-4	K-5
Sample description	Soil	Soil	Soil	Soil	Soil
Sampling date and time	21.12.2021.00:00	21.12.2021.00:00	21.12.2021.00:00	21.12.2021.00:00	21.12.2021.00:00

Physico-chemical test

Dry matter	EPDRY	%	95	94	90	91	92
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HYDROCARBONS

Nonpolar TPH C10-C21	EPTPH	mg/kg dw	2000	2700	2700	1800	2000
Nonpolar TPH C21-C40	EPTPH	mg/kg dw	320	390	410	290	280
Nonpolar TPH C10-C40	EPTPH	mg/kg dw	2300	3100	3100	2100	2200

PAH

Pyrene	EP05H	mg/kg dw	38	21	21	23	14
Anthracene	EP05E	mg/kg dw	36	18	17	19	13
Phenanthrene	EP05F	mg/kg dw	220	130	110	99	82
Benzo(a)pyrene	EP05C	mg/kg dw	6,1	3,7	3,7	3,8	2,5
Acenaphthene	EP05R	mg/kg dw	75	38	37	38	26
Chrysene	EP05N	mg/kg dw	18	8,2	9,1	9,7	6,3
Naphthalene	EP05P	mg/kg dw	300	140	96	13	160

Methyl- and dimethylnaphthalenes

1-Methylnaphthalene	EPP02	mg/kg dw	350	200	180	140	140
2-Methylnaphthalene	EPP02	mg/kg dw	420	250	200	74	180
1,2-dimethylnaphthalene	EPP02	mg/kg dw	37	21	18	17	14
1,3-, 1,7- and 1,6-dimethylnaphthalene	EPP02	mg/kg dw	190	100	99	99	73
1,4-, 1,5- and 2,3-dimethylnaphthalene	EPP02	mg/kg dw	74	40	37	36	28
1,8-dimethylnaphthalene	EPP02	mg/kg dw	6,6	3,4	3,3	3,2	2,3
2,6-Dimethylnaphthalene / 2,7-Dimethylnaphthalene	EPP02	mg/kg dw	76	44	41	39	30

SumPAH(14) Estonian regulation no 26

Eurofins Environment Testing Estonia OÜ

Paavli 5/3
10412 Tallinn
ESTONIA

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Business Registry Code: 12893983
VAT number: EE101823296



Sample number	337-2021-00034055	337-2021-00034056	337-2021-00034057	337-2021-00034058	337-2021-00034059
Client sample code	K-1	K-2	K-3	K-4	K-5

Sample description	Soil	Soil	Soil	Soil	Soil
Sampling date and time	21.12.2021.00:00	21.12.2021.00:00	21.12.2021.00:00	21.12.2021.00:00	21.12.2021.00:00

SumPAH(14) Estonian regulation no 26

Sum PAH	EPP26	mg/kg dw	1800	1000	870	610	780
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Sample number	337-2021-00034060	337-2021-00034061	337-2021-00034062	337-2021-00034063	337-2021-00034064
Client sample code	K-6	K-7	K-8	K-9	K-10

Sample description	Soil	Soil	Soil	Soil	Soil
Sampling date and time	21.12.2021.00:00	21.12.2021.00:00	21.12.2021.00:00	21.12.2021.00:00	21.12.2021.00:00

Physico-chemical test

Dry matter	EPDRY	%	92	90	93	91	90
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HYDROCARBONS

Nonpolar TPH C10-C21	EPTPH	mg/kg dw	2600	1900	2300	1500	1000
Nonpolar TPH C21-C40	EPTPH	mg/kg dw	430	270	370	210	510
Nonpolar TPH C10-C40	EPTPH	mg/kg dw	3100	2100	2700	1800	1500

PAH

Pyrene	EP05H	mg/kg dw	40	29	43	18	17
Anthracene	EP05E	mg/kg dw	37	28	39	15	15
Phenanthrene	EP05F	mg/kg dw	220	150	240	91	80
Benzo(a)pyrene	EP05C	mg/kg dw	6,4	4,6	6,9	3,0	3,0
Acenaphthene	EP05R	mg/kg dw	79	60	81	34	26
Chrysene	EP05N	mg/kg dw	18	13	19	7,9	7,3
Naphthalene	EP05P	mg/kg dw	360	65	180	35	7,6

Methyl- and dimethylnaphthalenes

1-Methylnaphthalene	EPP02	mg/kg dw	370	260	370	160	66
2-Methylnaphthalene	EPP02	mg/kg dw	420	190	360	140	8,4
1,2-dimethylnaphthalene	EPP02	mg/kg dw	38	28	40	17	13
1,3-, 1,7- and 1,6-dimethylnaphthalene	EPP02	mg/kg dw	200	150	210	88	71
1,4-, 1,5- and 2,3-dimethylnaphthalene	EPP02	mg/kg dw	75	57	78	33	27
1,8-dimethylnaphthalene	EPP02	mg/kg dw	6,6	4,4	6,3	2,5	2,4
2,6-Dimethylnaphthalene / 2,7-Dimethylnaphthalene	EPP02	mg/kg dw	87	62	86	36	28

SumPAH(14) Estonian regulation no 26

Sum PAH	EPP26	mg/kg dw	2000	1100	1800	680	370
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Sample number	337-2021-00034065	337-2021-00034066
Client sample code	K-11	K-12



Sample number 337-2021-00034065 337-2021-00034066
Client sample code K-11 K-12

Sample description Soil Soil
Sampling date and time 21.12.2021.00:00 21.12.2021.00:00

Physico-chemical test

Dry matter	EPDRY	%	93	92
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HYDROCARBONS

Nonpolar TPH C10-C21	EPTPH	mg/kg dw	2100	2200
Nonpolar TPH C21-C40	EPTPH	mg/kg dw	340	450
Nonpolar TPH C10-C40	EPTPH	mg/kg dw	2500	2700

PAH

Pyrene	EP05H	mg/kg dw	28	25
Anthracene	EP05E	mg/kg dw	27	26
Phenanthrene	EP05F	mg/kg dw	140	130
Benzo(a)pyrene	EP05C	mg/kg dw	4,8	4,3
Acenaphthene	EP05R	mg/kg dw	52	49
Chrysene	EP05N	mg/kg dw	12	11
Naphthalene	EP05P	mg/kg dw	23	3,7

Methyl- and dimethylnaphthalenes

1-Methylnaphthalene	EPP02	mg/kg dw	240	240
2-Methylnaphthalene	EPP02	mg/kg dw	67	96
1,2-dimethylnaphthalene	EPP02	mg/kg dw	27	25
1,3-, 1,7- and 1,6-dimethylnaphthalene	EPP02	mg/kg dw	140	130
1,4-, 1,5- and 2,3-dimethylnaphthalene	EPP02	mg/kg dw	52	47
1,8-dimethylnaphthalene	EPP02	mg/kg dw	4,2	4,1
2,6-Dimethylnaphthalene / 2,7-Dimethylnaphthalene	EPP02	mg/kg dw	61	52

SumPAH(14) Estonian regulation no 26

Sum PAH	EPP26	mg/kg dw	890	840
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Method information

Testcode	Parameter name	Default MU	Default LOQ	Accredited	Method	Laboratory
Physico-chemical test						
EPDRY	Dry matter	10% $\times$ <70% 3% $\times$ ≥70%	3	Yes	RA9000A (ISO 11465:1993)	EP L272
HYDROCARBONS						
EPTPH	Nonpolar TPH C10-C21	40%	20	Yes	RA9002A (SFS-EN ISO 16703:2011)	EP L272
EPTPH	Nonpolar TPH C21-C40	40%	20	Yes	RA9002A (SFS-EN ISO 16703:2011)	EP L272
EPTPH	Nonpolar TPH C10-C40	40%	20	Yes	RA9002A (SFS-EN ISO 16703:2011)	EP L272
PAH						
EP05H	Pyrene	40%	0.003	Yes	RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP L272
EP05E	Anthracene	40%	0.003	Yes	RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP L272
EP05F	Phenanthrene	40%	0.003	Yes	RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP L272
EP05C	Benzo(a)pyrene	40%	0.003	Yes	RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP L272
EP05R	Acenaphthene	40%	0.003	Yes	RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP L272
EP05N	Chrysene	40%	0.003	Yes	RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP L272
EP05P	Naphthalene	40%	0.003	Yes	RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP L272
Methyl- and dimethylnaphthalenes						
EPP02	1-Methylnaphthalene	40%	0.003	Yes	RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EP L272
EPP02	2-Methylnaphthalene	40%	0.003	Yes	RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EP L272
EPP02	1,2-dimethylnaphthalene	40%	0.003	Yes	RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EP L272
EPP02	1,3-, 1,7- and 1,6-dimethylnaphthalene	40%	0.009	Yes	RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EP L272
EPP02	1,4-, 1,5- and 2,3-dimethylnaphthalene	40%	0.009	Yes	RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EP L272
EPP02	1,8-dimethylnaphthalene	40%	0.003	Yes	RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EP L272
EPP02	2,6-Dimethylnaphthalene / 2,7-Dimethylnaphthalene	40%	0.006	Yes	RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EP L272
SumPAH(14) Estonian regulation no 26						
EPP26	Sum PAH			Yes		EP L272



Date 28.12.2021

Laboratory

EP L272	Eurofins Environment Testing Estonia (Tallinn)	EAK accredited testing laboratory L272 in accordance with the standard EVS-EN ISO/IEC 17025:2017 EAK L272
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Method

RA9000A (ISO 11465:1993)	Please ask the laboratory
RA9002A (SFS-EN ISO 16703:2011)	
RA9002B (EVS-EN 16181:2018)	
RA9002B (ISO 18287:2006)	

SIGNATURE

Gerda Alekand

Müügijuht

GerdaAlekand@eurofins.com

This test report has been created electronically and has been verified and authorised.

Additional information

Sampling person: Artto Pello

Sampling location: Jüri, Kesk Tee 36

Additional information: Pannimäe ABT pinnas

Analysis was performed between sample arrival date and Analytical Report date.

EXPLANATORY NOTE

This certificate may only be copied as whole. The results apply solely to the samples received and analyzed. Conclusion and other comments are not accredited.


Analytical Report AR-22-EP-003048-01
Page 1/4
Date 07.02.2022
Sample(s) reception date 01.02.2022
Our reference: EUAA55-00009465
Client Code: EP0000006
Maves OÜ
Technical contact for your orders Maarja-Liis Paap
Artto Pello

Marja tn 4d

10617 Tallinn

ESTONIA

Email: artto@maves.ee

Sample number	337-2022-00002892	337-2022-00002893	337-2022-00002894
Client sample code	K-1	K-2	K-3

Sample reference	Pahnimäe ABT	Pahnimäe ABT	Pahnimäe ABT
Sample description	Soil	Soil	Soil
Sampling date and time	31.01.2022.00:00	31.01.2022.00:00	31.01.2022.00:00

Physico-chemical test

Dry matter	EPDRY	%	94	93	90
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HYDROCARBONS

Nonpolar TPH C10-C21	EPTPH	mg/kg dw	1700	1800	2600
Nonpolar TPH C21-C40	EPTPH	mg/kg dw	330	480	400
Nonpolar TPH C10-C40	EPTPH	mg/kg dw	2000	2300	3000

Methyl- and dimethylnaphthalenes

1-Methylnaphthalene	EPP02	mg/kg dw	120	130	120
2-Methylnaphthalene	EPP02	mg/kg dw	140	150	130
1,2-dimethylnaphthalene	EPP02	mg/kg dw	13	14	13
1,3-, 1,7- and 1,6-dimethylnaphthalene	EPP02	mg/kg dw	67	70	72
1,4-, 1,5- and 2,3-dimethylnaphthalene	EPP02	mg/kg dw	25	26	27
1,8-dimethylnaphthalene	EPP02	mg/kg dw	2,1	2,2	2,7
2,6-Dimethylnaphthalene / 2,7-Dimethylnaphthalene	EPP02	mg/kg dw	50	55	53

PAH

Pyrene	EP05H	mg/kg dw	15	16	15
Anthracene	EP05E	mg/kg dw	12	12	11
Phenanthrene	EP05F	mg/kg dw	84	84	79
Benzo(a)pyrene	EP05C	mg/kg dw	2,2	2,5	2,5
Acenaphthene	EP05R	mg/kg dw	26	29	34
Chrysene	EP05N	mg/kg dw	5,2	5,9	5,6
Naphthalene	EP05P	mg/kg dw	87	56	33



Sample number	337-2022-00002892	337-2022-00002893	337-2022-00002894
Client sample code	K-1	K-2	K-3

Sample reference	Pahnimäe ABT	Pahnimäe ABT	Pahnimäe ABT
Sample description	Soil	Soil	Soil
Sampling date and time	31.01.2022.00:00	31.01.2022.00:00	31.01.2022.00:00

SumPAH(14) Estonian regulation no 26

Sum PAH	EPP26	mg/kg dw	660	650	600
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Method information

Testcode	Parameter name	Default MU	Default LOQ	Accredited	Method	Laboratory
Physico-chemical test						
EPDRY	Dry matter	10% $x < 70\%$ 3% $x \geq 70\%$	3	Yes	RA9000A (ISO 11465:1993)	EP L272
HYDROCARBONS						
EPTPH	Nonpolar TPH C10-C21	40%	20	Yes	RA9002A (SFS-EN ISO 16703:2011)	EP L272
EPTPH	Nonpolar TPH C21-C40	40%	20	Yes	RA9002A (SFS-EN ISO 16703:2011)	EP L272
EPTPH	Nonpolar TPH C10-C40	40%	20	Yes	RA9002A (SFS-EN ISO 16703:2011)	EP L272
Methyl- and dimethylnaphthalenes						
EPP02	1-Methylnaphthalene	40%	0.003	Yes	RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EP L272
EPP02	2-Methylnaphthalene	40%	0.003	Yes	RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EP L272
EPP02	1,2-dimethylnaphthalene	40%	0.003	Yes	RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EP L272
EPP02	1,3-, 1,7- and 1,6-dimethylnaphthalene	40%	0.009	Yes	RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EP L272
EPP02	1,4-, 1,5- and 2,3-dimethylnaphthalene	40%	0.009	Yes	RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EP L272
EPP02	1,8-dimethylnaphthalene	40%	0.003	Yes	RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EP L272
EPP02	2,6-Dimethylnaphthalene / 2,7-Dimethylnaphthalene	40%	0.006	Yes	RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EP L272
PAH						
EP05H	Pyrene	40%	0.003	Yes	RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP L272
EP05E	Anthracene	40%	0.003	Yes	RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP L272
EP05F	Phenanthrene	40%	0.003	Yes	RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP L272
EP05C	Benzo(a)pyrene	40%	0.003	Yes	RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP L272
EP05R	Acenaphthene	40%	0.003	Yes	RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP L272
EP05N	Chrysene	40%	0.003	Yes	RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP L272
EP05P	Naphthalene	40%	0.003	Yes	RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP L272
SumPAH(14) Estonian regulation no 26						
EPP26	Sum PAH			Yes		EP L272

Laboratory

EP L272	Eurofins Environment Testing Estonia (Tallinn)	EAK accredited testing laboratory L272 in accordance with the standard EVS-EN ISO/IEC 17025:2017 EAK L272
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Date 07.02.2022

**Laboratory**

EP L272

Eurofins Environment Testing Estonia (Tallinn)

EAK accredited testing laboratory L272 in accordance with the standard EVS-EN ISO/IEC 17025:2017 EAK L272

Method

RA9000A (ISO 11465:1993)

Please ask the laboratory

RA9002A (SFS-EN ISO
16703:2011)

RA9002B (EVS-EN 16181:2018)

RA9002B (ISO 18287:2006)

SIGNATURE

Eva Kristel Kail

Analytical Service Manager

EvaKristelKail@eurofins.com

This test report has been created electronically and has been verified and authorised.

Additional information

Sampling person: Artto Pello

Sampling location: Pahnimäe ABT; Kesk tee 36, Jüri

Analysis was performed between sample arrival date and Analytical Report date

EXPLANATORY NOTE

This certificate may only be copied as whole. The results apply solely to the samples received and analyzed. Conclusion and other comments are not accredited.


Analytical Report AR-22-EP-006960-01
Page 1/5
Date 07.03.2022
Sample(s) reception date 01.03.2022
Our reference: EUAA55-00010035
Client Code: EP0000006
Technical contact for your orders Maarja-Liis Paap
Maves OÜ
Artto Pello

Marja tn 4d

10617 Tallinn

ESTONIA

Email: artto@maves.ee

Sample number	337-2022-00006328	337-2022-00006329	337-2022-00006330	337-2022-00006331	337-2022-00006332
Client sample code	K-1	K-2	K-3	K-4	K-5
Sample description	Soil	Soil	Soil	Soil	Soil
Sampling date and time	28.02.2022.00:00	28.02.2022.00:00	28.02.2022.00:00	28.02.2022.00:00	28.02.2022.00:00

Physical-Chemical test

Dry matter	EPDRY	%	94	96	93	87	93
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Total hydrocarbons

Nonpolar TPH C10-C21	EPTPH	mg/kg dw	2200	1900	2600	1800	1400
Nonpolar TPH C21-C40	EPTPH	mg/kg dw	360	300	400	310	270
Nonpolar TPH C10-C40	EPTPH	mg/kg dw	2600	2200	3000	2100	1700

PAH

Anthracene	EP05E	mg/kg dw	22	20	22	15	13
Acenaphthene	EP05R	mg/kg dw	39	35	39	28	22
Benzo(a)pyrene	EP05C	mg/kg dw	3,5	3,3	3,7	2,9	2,4
Phenanthrene	EP05F	mg/kg dw	110	110	120	88	71
Chrysene	EP05N	mg/kg dw	8,9	8,9	10	7,6	5,8
Naphthalene	EP05P	mg/kg dw	64	63	65	3,5	33
Pyrene	EP05H	mg/kg dw	22	20	22	18	13

Methyl- and dimethylnaphthalenes

1-Methylnaphthalene	EPP02	mg/kg dw	180	170	180	97	110
2-Methylnaphthalene	EPP02	mg/kg dw	200	190	200	61	110
1,2-dimethylnaphthalene	EPP02	mg/kg dw	20	18	21	14	14
1,3-, 1,7- and 1,6-dimethylnaphthalene	EPP02	mg/kg dw	110	98	110	75	70
1,4-, 1,5- and 2,3-dimethylnaphthalene	EPP02	mg/kg dw	43	37	42	29	28
1,8-dimethylnaphthalene	EPP02	mg/kg dw	3,3	3,0	3,7	2,8	2,5
2,6-Dimethylnaphthalene / 2,7-Dimethylnaphthalene	EPP02	mg/kg dw	42	37	39	31	27

SumPAH(14) Estonian regulation no 26
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Business Registry Code: 12893983
VAT number: EE101823296



Sample number	337-2022-00006328	337-2022-00006329	337-2022-00006330	337-2022-00006331	337-2022-00006332
Client sample code	K-1	K-2	K-3	K-4	K-5

Sample description	Soil	Soil	Soil	Soil	Soil
Sampling date and time	28.02.2022.00:00	28.02.2022.00:00	28.02.2022.00:00	28.02.2022.00:00	28.02.2022.00:00

SumPAH(14) Estonian regulation no 26

Sum PAH	EPP26	mg/kg dw	880	810	870	470	530
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Sample number	337-2022-00006333	337-2022-00006334	337-2022-00006335	337-2022-00006336	337-2022-00006337
Client sample code	K-6	K-7	K-8	K-9	K-10

Sample description	Soil	Soil	Soil	Soil	Soil
Sampling date and time	28.02.2022.00:00	28.02.2022.00:00	28.02.2022.00:00	28.02.2022.00:00	28.02.2022.00:00

Physical-Chemical test

Dry matter	EPDRY	%	93	89	88	82	86
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Total hydrocarbons

Nonpolar TPH C10-C21	EPTPH	mg/kg dw	1800	1300	1500	1700	840
Nonpolar TPH C21-C40	EPTPH	mg/kg dw	380	260	340	510	1000
Nonpolar TPH C10-C40	EPTPH	mg/kg dw	2200	1500	1900	2200	1900

PAH

Anthracene	EP05E	mg/kg dw	23	19	19	11	12
Acenaphthene	EP05R	mg/kg dw	43	37	39	22	18
Benzo(a)pyrene	EP05C	mg/kg dw	4,1	3,3	3,1	2,4	2,6
Phenanthrene	EP05F	mg/kg dw	120	120	120	77	56
Chrysene	EP05N	mg/kg dw	11	9,0	9,0	6,1	5,9
Naphthalene	EP05P	mg/kg dw	27	23	8,1	1,2	30
Pyrene	EP05H	mg/kg dw	27	23	21	15	15

Methyl- and dimethylnaphthalenes

1-Methylnaphthalene	EPP02	mg/kg dw	130	140	140	55	38
2-Methylnaphthalene	EPP02	mg/kg dw	92	80	54	16	19
1,2-dimethylnaphthalene	EPP02	mg/kg dw	19	18	18	10	8,9
1,3-, 1,7- and 1,6-dimethylnaphthalene	EPP02	mg/kg dw	110	98	100	55	48
1,4-, 1,5- and 2,3-dimethylnaphthalene	EPP02	mg/kg dw	42	38	40	20	19
1,8-dimethylnaphthalene	EPP02	mg/kg dw	4,7	3,4	3,8	2,2	2,1
2,6-Dimethylnaphthalene / 2,7-Dimethylnaphthalene	EPP02	mg/kg dw	43	39	41	21	18

SumPAH(14) Estonian regulation no 26

Sum PAH	EPP26	mg/kg dw	700	650	620	320	290
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Sample number	337-2022-00006338	337-2022-00006339
Client sample code	K-11	K-12

Sample description	Soil	Soil
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Sample number 337-2022-00006338 337-2022-00006339
Client sample code K-11 K-12

Sample description Soil Soil
Sampling date and time 28.02.2022.00:00 28.02.2022.00:00

Physical-Chemical test

Dry matter	EPDRY	%	90	89
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Total hydrocarbons

Nonpolar TPH C10-C21	EPTPH	mg/kg dw	1300	1000
Nonpolar TPH C21-C40	EPTPH	mg/kg dw	540	520
Nonpolar TPH C10-C40	EPTPH	mg/kg dw	1800	1600

PAH

Anthracene	EP05E	mg/kg dw	17	16
Acenaphthene	EP05R	mg/kg dw	29	29
Benzo(a)pyrene	EP05C	mg/kg dw	3,0	2,9
Phenanthrene	EP05F	mg/kg dw	91	73
Chrysene	EP05N	mg/kg dw	7,3	7,0
Naphthalene	EP05P	mg/kg dw	5,7	2,0
Pyrene	EP05H	mg/kg dw	18	17

Methyl- and dimethylnaphthalenes

1-Methylnaphthalene	EPP02	mg/kg dw	110	83
2-Methylnaphthalene	EPP02	mg/kg dw	14	13
1,2-dimethylnaphthalene	EPP02	mg/kg dw	15	13
1,3-, 1,7- and 1,6-dimethylnaphthalene	EPP02	mg/kg dw	82	72
1,4-, 1,5- and 2,3-dimethylnaphthalene	EPP02	mg/kg dw	33	28
1,8-dimethylnaphthalene	EPP02	mg/kg dw	3,1	2,7
2,6-Dimethylnaphthalene / 2,7-Dimethylnaphthalene	EPP02	mg/kg dw	31	24

SumPAH(14) Estonian regulation no 26

Sum PAH	EPP26	mg/kg dw	460	380
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Method information

Testcode	Parameter name	Default MU	Default LOQ	Accredited	Method	Laboratory
Physical-Chemical test						
EPDRY	Dry matter	10% $\times$ <70% 3% $\times$ ≥70%	3	Yes	RA9000A (ISO 11465:1993)	EP L272
Total hydrocarbons						
EPTPH	Nonpolar TPH C10-C21	40%	20	Yes	RA9002A (SFS-EN ISO 16703:2011)	EP L272
EPTPH	Nonpolar TPH C21-C40	40%	20	Yes	RA9002A (SFS-EN ISO 16703:2011)	EP L272
EPTPH	Nonpolar TPH C10-C40	40%	20	Yes	RA9002A (SFS-EN ISO 16703:2011)	EP L272
PAH						
EP05E	Anthracene	40%	0.003	Yes	RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP L272
EP05R	Acenaphthene	40%	0.003	Yes	RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP L272
EP05C	Benzo(a)pyrene	40%	0.003	Yes	RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP L272
EP05F	Phenanthrene	40%	0.003	Yes	RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP L272
EP05N	Chrysene	40%	0.003	Yes	RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP L272
EP05P	Naphthalene	40%	0.003	Yes	RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP L272
EP05H	Pyrene	40%	0.003	Yes	RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP L272
Methyl- and dimethylnaphthalenes						
EPP02	1-Methylnaphthalene	40%	0.003	Yes	RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EP L272
EPP02	2-Methylnaphthalene	40%	0.003	Yes	RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EP L272
EPP02	1,2-dimethylnaphthalene	40%	0.003	Yes	RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EP L272
EPP02	1,3-, 1,7- and 1,6-dimethylnaphthalene	40%	0.009	Yes	RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EP L272
EPP02	1,4-, 1,5- and 2,3-dimethylnaphthalene	40%	0.009	Yes	RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EP L272
EPP02	1,8-dimethylnaphthalene	40%	0.003	Yes	RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EP L272
EPP02	2,6-Dimethylnaphthalene / 2,7-Dimethylnaphthalene	40%	0.006	Yes	RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EP L272
SumPAH(14) Estonian regulation no 26						
EPP26	Sum PAH			Yes		EP L272

**Laboratory**

EP L272	Eurofins Environment Testing Estonia (Tallinn)	EAK accredited testing laboratory L272 in accordance with the standard EVS-EN ISO/IEC 17025:2017 EAK L272
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Method

RA9000A (ISO 11465:1993)	Please ask the laboratory
RA9002A (SFS-EN ISO 16703:2011)	
RA9002B (EVS-EN 16181:2018)	
RA9002B (ISO 18287:2006)	

SIGNATURE

Eva Kristel Kail

Analytical Service Manager EvaKristelKail@eurofins.com

This test report has been created electronically and has been verified and authorised.

Additional information

Sampling person: Artto Pello

Sampling location: Jüri Kesk Tee 3G Pahnimäe ABT Pinnas

Analysis was performed between sample arrival date and Analytical Report date.

EXPLANATORY NOTE

This certificate may only be copied as whole. The results apply solely to the samples received and analyzed. Conclusion and other comments are not accredited.


Analytical Report AR-22-EP-005509-01
Page 1/4
Date 23.02.2022
Sample(s) reception date 17.02.2022
Our reference: EUAA55-00009825
Client Code: EP0000006
Technical contact for your orders Maarja-Liis Paap
Maves OÜ
Artto Pello

Marja tn 4d

10617 Tallinn

ESTONIA

Email: artto@maves.ee

Sample number
337-2022-00005016 337-2022-00005017 337-2022-00005018
Client sample code

T-1

T-2

T-3

Sample description

Soil

Soil

Soil

Sampling date and time

17.02.2022.00:00

17.02.2022.00:00

17.02.2022.00:00

Physico-chemical test

Dry matter	EPDRY	%	90	93	93
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HYDROCARBONS

Nonpolar TPH C10-C21	EPTPH	mg/kg dw	2800	4400	4300
Nonpolar TPH C21-C40	EPTPH	mg/kg dw	380	550	590
Nonpolar TPH C10-C40	EPTPH	mg/kg dw	3200	4900	4900

PAH

Anthracene	EP05E	mg/kg dw	16	20	20
Acenaphthene	EP05R	mg/kg dw	28	37	37
Benzo(a)pyrene	EP05C	mg/kg dw	3,5	3,5	3,6
Phenanthrene	EP05F	mg/kg dw	82	120	110
Chrysene	EP05N	mg/kg dw	7,0	8,8	9,3
Naphthalene	EP05P	mg/kg dw	70	58	76
Pyrene	EP05H	mg/kg dw	18	21	22

Methyl- and dimethylnaphthalenes

1-Methylnaphthalene	EPP02	mg/kg dw	140	170	170
2-Methylnaphthalene	EPP02	mg/kg dw	150	170	190
1,2-dimethylnaphthalene	EPP02	mg/kg dw	16	20	19
1,3-, 1,7- and 1,6-dimethylnaphthalene	EPP02	mg/kg dw	79	100	100
1,4-, 1,5- and 2,3-dimethylnaphthalene	EPP02	mg/kg dw	30	39	39
1,8-dimethylnaphthalene	EPP02	mg/kg dw	2,3	3,1	3,2
2,6-Dimethylnaphthalene / 2,7-Dimethylnaphthalene	EPP02	mg/kg dw	28	40	38

SumPAH(14) Estonian regulation no 26
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VAT number: EE101823296



Sample number	337-2022-00005016	337-2022-00005017	337-2022-00005018
Client sample code	T-1	T-2	T-3

Sample description	Soil	Soil	Soil
Sampling date and time	17.02.2022.00:00	17.02.2022.00:00	17.02.2022.00:00

SumPAH(14) Estonian regulation no 26

Sum PAH	EPP26	mg/kg dw	670	800	840
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Method information

Testcode	Parameter name	Default MU	Default LOQ	Accredited	Method	Laboratory
Physico-chemical test						
EPDRY	Dry matter	10% $\times$ <70% 3% $\times$ ≥70%	3	Yes	RA9000A (ISO 11465:1993)	EP L272
HYDROCARBONS						
EPTPH	Nonpolar TPH C10-C21	40%	20	Yes	RA9002A (SFS-EN ISO 16703:2011)	EP L272
EPTPH	Nonpolar TPH C21-C40	40%	20	Yes	RA9002A (SFS-EN ISO 16703:2011)	EP L272
EPTPH	Nonpolar TPH C10-C40	40%	20	Yes	RA9002A (SFS-EN ISO 16703:2011)	EP L272
PAH						
EP05E	Anthracene	40%	0.003	Yes	RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP L272
EP05R	Acenaphthene	40%	0.003	Yes	RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP L272
EP05C	Benzo(a)pyrene	40%	0.003	Yes	RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP L272
EP05F	Phenanthrene	40%	0.003	Yes	RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP L272
EP05N	Chrysene	40%	0.003	Yes	RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP L272
EP05P	Naphthalene	40%	0.003	Yes	RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP L272
EP05H	Pyrene	40%	0.003	Yes	RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP L272
Methyl- and dimethylnaphthalenes						
EPP02	1-Methylnaphthalene	40%	0.003	Yes	RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EP L272
EPP02	2-Methylnaphthalene	40%	0.003	Yes	RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EP L272
EPP02	1,2-dimethylnaphthalene	40%	0.003	Yes	RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EP L272
EPP02	1,3-, 1,7- and 1,6-dimethylnaphthalene	40%	0.009	Yes	RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EP L272
EPP02	1,4-, 1,5- and 2,3-dimethylnaphthalene	40%	0.009	Yes	RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EP L272
EPP02	1,8-dimethylnaphthalene	40%	0.003	Yes	RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EP L272
EPP02	2,6-Dimethylnaphthalene / 2,7-Dimethylnaphthalene	40%	0.006	Yes	RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EP L272
SumPAH(14) Estonian regulation no 26						
EPP26	Sum PAH			Yes		EP L272

**Laboratory**

EP L272	Eurofins Environment Testing Estonia (Tallinn)	EAK accredited testing laboratory L272 in accordance with the standard EVS-EN ISO/IEC 17025:2017 EAK L272
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Method

RA9000A (ISO 11465:1993)	Please ask the laboratory
RA9002A (SFS-EN ISO 16703:2011)	
RA9002B (EVS-EN 16181:2018)	
RA9002B (ISO 18287:2006)	

SIGNATURE

Gerda Alekand

Müügijuht

GerdaAlekand@eurofins.com

This test report has been created electronically and has been verified and authorised.

Additional information

Sampling person: Artto Pello

Sampling location: Jüri Kesk Tee 36, Pahnimäe pinnas

Analysis was performed between sample arrival date and Analytical Report date.

EXPLANATORY NOTE

This certificate may only be copied as whole. The results apply solely to the samples received and analyzed. Conclusion and other comments are not accredited.

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Analytical Report **AR-22-EP-011804-01**

Date **11.04.2022**

Sample(s) reception date **29.03.2022**

Our reference **EUA55-00010601**

Client Code **EP0000006**

Technical contact for your orders **Eva Kristel Kail**

Maves OÜ

Artto Pello

Marja tn 4d

10617 Tallinn

ESTONIA

Email: artto@maves.ee

Analysis was performed between sample reception date and Analytical Report date.

Sample code	337-2022-00010375	337-2022-00010376	337-2022-00010377
Client sample code	K-1	K-2	K-3
Client sample description	Soil	Soil	Soil
Client sample reference	K-1	K-2	K-3
Sampling date and time	29.03.2022.00:00	29.03.2022.00:00	29.03.2022.00:00

Unit LOQ Laboratory

Physical-Chemical test

Dry matter	EPDRY	95	95	96	%	3	EP L272
RA9000A (ISO 11465:1993)							

Total hydrocarbons

Nonpolar TPH C10-C21	EPTPH	3100	2200	1600	mg/kg dw	20	EP L272
RA9002A (SFS-EN ISO 16703:2011)							
Nonpolar TPH C21-C40	EPTPH	440	370	290	mg/kg dw	20	EP L272
RA9002A (SFS-EN ISO 16703:2011)							
Nonpolar TPH C10-C40	EPTPH	3500	2600	1900	mg/kg dw	20	EP L272
RA9002A (SFS-EN ISO 16703:2011)							

PAH

Anthracene	EP05E	26	20	17	mg/kg dw	0,003	EP L272
RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)							
Acenaphthene	EP05R	45	35	28	mg/kg dw	0,003	EP L272
RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)							
Benzo(a)pyrene	EP05C	3,8	3,2	2,9	mg/kg dw	0,003	EP L272
RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)							
Phenanthrene	EP05F	120	92	76	mg/kg dw	0,003	EP L272
RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)							
Chrysene	EP05N	10	8,9	8,0	mg/kg dw	0,003	EP L272
RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)							

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Analytical Report **AR-22-EP-011804-01**

Date **11.04.2022**

Sample code	337-2022-00010375	337-2022-00010376	337-2022-00010377
Client sample code	K-1	K-2	K-3
Client sample description	Soil	Soil	Soil
Client sample reference	K-1	K-2	K-3
Sampling date and time	29.03.2022.00:00	29.03.2022.00:00	29.03.2022.00:00

Unit LOQ Laboratory

PAH

Naphthalene RA9002B (ISO 18287:2006); RA9002B (ISO 18287:2006)	EP05P	120	37	23	mg/kg dw	0,003	EP L272
Pyrene RA9002B (ISO 18287:2006); RA9002B (ISO 18287:2006)	EP05H	27	21	19	mg/kg dw	0,003	EP L272

Methyl- and dimethylnaphthalenes

1-Methylnaphthalene RA9002B (ISO 18287:2006); RA9002B (ISO 18287:2006)	EPP02	230	190	140	mg/kg dw	0,003	EP L272
2-Methylnaphthalene RA9002B (ISO 18287:2006); RA9002B (ISO 18287:2006)	EPP02	250	190	130	mg/kg dw	0,003	EP L272
1,2-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (ISO 18287:2006)	EPP02	26	23	18	mg/kg dw	0,003	EP L272
1,3-, 1,7- and 1,6-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (ISO 18287:2006)	EPP02	140	110	88	mg/kg dw	0,009	EP L272
1,4-, 1,5- and 2,3-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (ISO 18287:2006)	EPP02	53	45	35	mg/kg dw	0,009	EP L272
1,8-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (ISO 18287:2006)	EPP02	4,5	3,8	2,9	mg/kg dw	0,003	EP L272
2,6-Dimethylnaphthalene / 2,7-Dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (ISO 18287:2006)	EPP02	68	58	43	mg/kg dw	0,006	EP L272

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Sum PAH	EPP26	1100	840	630	mg/kg dw		EP L272
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Sample code	337-2022-00010378	337-2022-00010379	337-2022-00010380
Client sample code	K-4	K-5	K-6
Client sample description	Soil	Soil	Soil

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Analytical Report **AR-22-EP-011804-01**

Date **11.04.2022**

Sample code	337-2022-00010378	337-2022-00010379	337-2022-00010380
Client sample code	K-4	K-5	K-6
Client sample description	Soil	Soil	Soil
Client sample reference	K-4	K-5	K-6
Sampling date and time	29.03.2022.00:00	29.03.2022.00:00	29.03.2022.00:00

Unit LOQ Laboratory

Physical-Chemical test

Dry matter	EPDRY	90	93	93	%	3	EP L272
RA9000A (ISO 11465:1993)							

Total hydrocarbons

Nonpolar TPH C10-C21	EPTPH	770	920	2100	mg/kg dw	20	EP L272
RA9002A (SFS-EN ISO 16703:2011)							
Nonpolar TPH C21-C40	EPTPH	270	360	360	mg/kg dw	20	EP L272
RA9002A (SFS-EN ISO 16703:2011)							
Nonpolar TPH C10-C40	EPTPH	1000	1300	2500	mg/kg dw	20	EP L272
RA9002A (SFS-EN ISO 16703:2011)							

PAH

Anthracene	EP05E	6,0	5,4	19	mg/kg dw	0,003	EP L272
RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)							
Acenaphthene	EP05R	10	8,0	34	mg/kg dw	0,003	EP L272
RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)							
Benzo(a)pyrene	EP05C	2,1	2,2	3,1	mg/kg dw	0,003	EP L272
RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)							
Phenanthrene	EP05F	7,6	18	82	mg/kg dw	0,003	EP L272
RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)							
Chrysene	EP05N	4,5	3,9	8,8	mg/kg dw	0,003	EP L272
RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)							
Naphthalene	EP05P	0,53	1,3	29	mg/kg dw	0,003	EP L272
RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)							
Pyrene	EP05H	13	15	21	mg/kg dw	0,003	EP L272
RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)							

Methyl- and dimethylnaphthalenes

1-Methylnaphthalene	EPP02	15	9,8	150	mg/kg dw	0,003	EP L272
RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)							
2-Methylnaphthalene	EPP02	5,6	5,4	140	mg/kg dw	0,003	EP L272
RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)							

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Analytical Report **AR-22-EP-011804-01**

Date **11.04.2022**

Sample code	337-2022-00010378	337-2022-00010379	337-2022-00010380
Client sample code	K-4	K-5	K-6
Client sample description	Soil	Soil	Soil
Client sample reference	K-4	K-5	K-6
Sampling date and time	29.03.2022.00:00	29.03.2022.00:00	29.03.2022.00:00

Unit LOQ Laboratory

Methyl- and dimethylnaphthalenes

1,2-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	3,0	2,1	18	mg/kg dw	0,003	EP L272
1,3-, 1,7- and 1,6-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	18	15	97	mg/kg dw	0,009	EP L272
1,4-, 1,5- and 2,3-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	7,5	6,3	37	mg/kg dw	0,009	EP L272
1,8-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	1,0	0,96	3,3	mg/kg dw	0,003	EP L272
2,6-Dimethylnaphthalene / 2,7-Dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	7,8	6,4	49	mg/kg dw	0,006	EP L272

SumPAH(14) Estonian regulation no 26

Sum PAH	EPP26	100	99	680	mg/kg dw		EP L272
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Sample code	337-2022-00010381	337-2022-00010382	337-2022-00010383
Client sample code	K-7	K-8	K-9
Client sample description	Soil	Soil	Soil
Client sample reference	K-7	K-8	K-9
Sampling date and time	29.03.2022.00:00	29.03.2022.00:00	29.03.2022.00:00

Unit LOQ Laboratory

Physical-Chemical test

Dry matter RA9000A (ISO 11465:1993)	EPDRY	92	93	87	%	3	EP L272
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Total hydrocarbons

Nonpolar TPH C10-C21 RA9002A (SFS-EN ISO 16703:2011)	EPTPH	1600	2700	2100	mg/kg dw	20	EP L272
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Analytical Report **AR-22-EP-011804-01**

Date **11.04.2022**

Sample code	337-2022-00010381	337-2022-00010382	337-2022-00010383
Client sample code	K-7	K-8	K-9
Client sample description	Soil	Soil	Soil
Client sample reference	K-7	K-8	K-9
Sampling date and time	29.03.2022.00:00	29.03.2022.00:00	29.03.2022.00:00

Unit LOQ Laboratory

Total hydrocarbons

Nonpolar TPH C21-C40 RA9002A (SFS-EN ISO 16703:2011)	EPTPH	280	850	480	mg/kg dw	20	EP L272
Nonpolar TPH C10-C40 RA9002A (SFS-EN ISO 16703:2011)	EPTPH	1900	3600	2500	mg/kg dw	20	EP L272

PAH

Anthracene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05E	21	18	13	mg/kg dw	0,003	EP L272
Acenaphthene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05R	38	32	23	mg/kg dw	0,003	EP L272
Benzo(a)pyrene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05C	3,4	3,0	2,8	mg/kg dw	0,003	EP L272
Phenanthrene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05F	95	77	58	mg/kg dw	0,003	EP L272
Chrysene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05N	9,8	8,9	7,0	mg/kg dw	0,003	EP L272
Naphthalene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05P	28	1,3	3,8	mg/kg dw	0,003	EP L272
Pyrene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05H	23	22	17	mg/kg dw	0,003	EP L272

Methyl- and dimethylnaphthalenes

1-Methylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	150	85	75	mg/kg dw	0,003	EP L272
2-Methylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	110	20	39	mg/kg dw	0,003	EP L272
1,2-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	19	16	11	mg/kg dw	0,003	EP L272
1,3-, 1,7- and 1,6-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	110	91	67	mg/kg dw	0,009	EP L272

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Analytical Report **AR-22-EP-011804-01**

Date **11.04.2022**

Sample code	337-2022-00010381	337-2022-00010382	337-2022-00010383
Client sample code	K-7	K-8	K-9
Client sample description	Soil	Soil	Soil
Client sample reference	K-7	K-8	K-9
Sampling date and time	29.03.2022.00:00	29.03.2022.00:00	29.03.2022.00:00

Unit LOQ Laboratory

Methyl- and dimethylnaphthalenes

1,4-, 1,5- and 2,3-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	44	36	27	mg/kg dw	0,009	EP L272
1,8-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	4,6	3,5	2,4	mg/kg dw	0,003	EP L272
2,6-Dimethylnaphthalene / 2,7-Dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	58	44	35	mg/kg dw	0,006	EP L272

SumPAH(14) Estonian regulation no 26

Sum PAH	EPP26	720	460	380	mg/kg dw		EP L272
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Sample code	337-2022-00010384	337-2022-00010385	337-2022-00010386
Client sample code	K-10	K-11	K-12
Client sample description	Soil	Soil	Soil
Client sample reference	K-10	K-11	K-12
Sampling date and time	29.03.2022.00:00	29.03.2022.00:00	29.03.2022.00:00

Unit LOQ Laboratory

Physical-Chemical test

Dry matter RA9000A (ISO 11465:1993)	EPDRY	87	93	90	%	3	EP L272
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Total hydrocarbons

Nonpolar TPH C10-C21 RA9002A (SFS-EN ISO 16703:2011)	EPTPH	490	1400	1200	mg/kg dw	20	EP L272
Nonpolar TPH C21-C40 RA9002A (SFS-EN ISO 16703:2011)	EPTPH	430	480	460	mg/kg dw	20	EP L272
Nonpolar TPH C10-C40 RA9002A (SFS-EN ISO 16703:2011)	EPTPH	920	1900	1700	mg/kg dw	20	EP L272

PAH

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Analytical Report **AR-22-EP-011804-01**

Date **11.04.2022**

Sample code	337-2022-00010384	337-2022-00010385	337-2022-00010386
Client sample code	K-10	K-11	K-12
Client sample description	Soil	Soil	Soil
Client sample reference	K-10	K-11	K-12
Sampling date and time	29.03.2022.00:00	29.03.2022.00:00	29.03.2022.00:00

Unit LOQ Laboratory

PAH

Anthracene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05E	4,0	15	11	mg/kg dw	0,003	EP L272
Acenaphthene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05R	4,9	24	17	mg/kg dw	0,003	EP L272
Benzo(a)pyrene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05C	1,8	3,0	2,6	mg/kg dw	0,003	EP L272
Phenanthrene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05F	4,9	76	35	mg/kg dw	0,003	EP L272
Chrysene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05N	3,3	7,8	6,5	mg/kg dw	0,003	EP L272
Naphthalene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05P	0,60	1,4	3,0	mg/kg dw	0,003	EP L272
Pyrene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05H	10	18	16	mg/kg dw	0,003	EP L272

Methyl- and dimethylnaphthalenes

1-Methylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	3,1	47	26	mg/kg dw	0,003	EP L272
2-Methylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	1,4	2,7	5,4	mg/kg dw	0,003	EP L272
1,2-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	2,0	11	6,3	mg/kg dw	0,003	EP L272
1,3-, 1,7- and 1,6-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	15	66	45	mg/kg dw	0,009	EP L272
1,4-, 1,5- and 2,3-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	6,3	26	19	mg/kg dw	0,009	EP L272
1,8-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	0,94	2,7	2,2	mg/kg dw	0,003	EP L272

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Analytical Report **AR-22-EP-011804-01**

Date **11.04.2022**

Sample code	337-2022-00010384	337-2022-00010385	337-2022-00010386
Client sample code	K-10	K-11	K-12
Client sample description	Soil	Soil	Soil
Client sample reference	K-10	K-11	K-12
Sampling date and time	29.03.2022.00:00	29.03.2022.00:00	29.03.2022.00:00

Unit LOQ Laboratory

Methyl- and dimethylnaphthalenes

2,6-Dimethylnaphthalene / 2,7-Dimethylnaphthalene	EPP02	4,3	31	19	mg/kg dw	0,006	EP L272
RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)							

SumPAH(14) Estonian regulation no 26

Sum PAH	EPP26	63	330	210	mg/kg dw		EP L272
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Sample code	337-2022-00010387	337-2022-00010388	337-2022-00010389
Client sample code	T-1	T-2	T-3
Client sample description	Soil	Soil	Soil
Client sample reference	T-1	T-2	T-3
Sampling date and time	29.03.2022.00:00	29.03.2022.00:00	29.03.2022.00:00

Unit LOQ Laboratory

Physical-Chemical test

Dry matter	EPDRY	91	91	88	%	3	EP L272
RA9000A (ISO 11465:1993)							

Total hydrocarbons

Nonpolar TPH C10-C21	EPTPH	2900	2100	2400	mg/kg dw	20	EP L272
RA9002A (SFS-EN ISO 16703:2011)							
Nonpolar TPH C21-C40	EPTPH	610	420	360	mg/kg dw	20	EP L272
RA9002A (SFS-EN ISO 16703:2011)							
Nonpolar TPH C10-C40	EPTPH	3500	2500	2700	mg/kg dw	20	EP L272
RA9002A (SFS-EN ISO 16703:2011)							

PAH

Anthracene	EP05E	16	13	16	mg/kg dw	0,003	EP L272
RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)							
Acenaphthene	EP05R	26	24	30	mg/kg dw	0,003	EP L272
RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)							

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Analytical Report **AR-22-EP-011804-01**

Date **11.04.2022**

Sample code	337-2022-00010387	337-2022-00010388	337-2022-00010389
Client sample code	T-1	T-2	T-3
Client sample description	Soil	Soil	Soil
Client sample reference	T-1	T-2	T-3
Sampling date and time	29.03.2022.00:00	29.03.2022.00:00	29.03.2022.00:00

Unit LOQ Laboratory

PAH

Benzo(a)pyrene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05C	3,7	2,7	2,5	mg/kg dw	0,003	EP L272
Phenanthrene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05F	73	64	71	mg/kg dw	0,003	EP L272
Chrysene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05N	7,5	7,3	7,2	mg/kg dw	0,003	EP L272
Naphthalene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05P	45	0,88	37	mg/kg dw	0,003	EP L272
Pyrene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05H	19	17	17	mg/kg dw	0,003	EP L272

Methyl- and dimethylnaphthalenes

1-Methylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	150	78	140	mg/kg dw	0,003	EP L272
2-Methylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	160	42	140	mg/kg dw	0,003	EP L272
1,2-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	17	11	17	mg/kg dw	0,003	EP L272
1,3-, 1,7- and 1,6-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	95	62	85	mg/kg dw	0,009	EP L272
1,4-, 1,5- and 2,3-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	36	25	33	mg/kg dw	0,009	EP L272
1,8-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	3,1	2,6	3,0	mg/kg dw	0,003	EP L272
2,6-Dimethylnaphthalene / 2,7-Dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	46	29	43	mg/kg dw	0,006	EP L272

SumPAH(14) Estonian regulation no 26

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Analytical Report **AR-22-EP-011804-01**

Date **11.04.2022**

Sample code	337-2022-00010387	337-2022-00010388	337-2022-00010389
Client sample code	T-1	T-2	T-3
Client sample description	Soil	Soil	Soil
Client sample reference	T-1	T-2	T-3
Sampling date and time	29.03.2022.00:00	29.03.2022.00:00	29.03.2022.00:00

Unit	LOQ	Laboratory
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SumPAH(14) Estonian regulation no 26

Sum PAH	EPP26	690	380	630	mg/kg dw	EP L272
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Analytical Report **AR-22-EP-011804-01**Date **11.04.2022****Laboratory**

EP L272	Eurofins Environment Testing Estonia (Tallinn)	EAK accredited testing laboratory L272 in accordance with the standard EVS-EN ISO/IEC 17025:2017 EAK L272
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SIGNATURE

Eva Kristel Kail
Analytical Service Manager
EvaKristelKail@eurofins.com

This test report has been created electronically and has been verified and authorised.

Additional information

Sampling person: Artto Pello
Sampling location: Jüri, Kesk tee 36

EXPLANATORY NOTE

1. This certificate may only be copied as whole.
2. Any publication of this report requires written permission. An excerpt publication is not allowed.
3. The results described apply only to the samples received.
4. All information regarding the sample (except those recorded on site or at sample registration by Eurofins) have been provided by the client. This information can have impact on the validity of the analytical results. Laboratory is not responsible for the accuracy of the information provided by the client.

< result is below LOQ
LOQ limit of quantification

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Analytical Report **AR-22-EP-016443-0**
1

Date **09.05.2022**

Sample(s) reception date **03.05.2022**

Our reference **EUAA55-00011334**

Client Code **EP0000006**

Technical contact for your orders **Eva Kristel Kail**

Maves OÜ

Artto Pello

Marja tn 4d

10617 Tallinn

ESTONIA

Email: artto@maves.ee

Analysis was performed between sample reception date and Analytical Report date.

Sample code	337-2022-00015888	337-2022-00015889	337-2022-00015890
Client sample code	K-1	K-2	K-3
Client sample description	Soil	Soil	Soil
Sampling date and time	02.05.2022.00:00	02.05.2022.00:00	02.05.2022.00:00

Unit LOQ Laboratory

Physical-Chemical test

Dry matter	EPDRY	95	95	94	%	3	EP L272
RA9000A (ISO 11465:1993)							

Total hydrocarbons

Nonpolar TPH C10-C21	EPTPH	1800	1300	1800	mg/kg dw	20	EP L272
RA9002A (SFS-EN ISO 16703:2011; SFS-EN ISO 9377-2:2001)							

Nonpolar TPH C21-C40	EPTPH	360	260	290	mg/kg dw	20	EP L272
RA9002A (SFS-EN ISO 16703:2011; SFS-EN ISO 9377-2:2001)							

Nonpolar TPH C10-C40	EPTPH	2200	1600	2100	mg/kg dw	20	EP L272
RA9002A (SFS-EN ISO 16703:2011; SFS-EN ISO 9377-2:2001)							

PAH

Anthracene	EP05E	29	14	18	mg/kg dw	0,003	EP L272
RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)							

Acenaphthene	EP05R	58	25	32	mg/kg dw	0,003	EP L272
RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)							

Benzo(a)pyrene	EP05C	4,4	2,6	3,3	mg/kg dw	0,003	EP L272
RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)							

Phenanthrene	EP05F	150	84	97	mg/kg dw	0,003	EP L272
RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)							

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Analytical Report **AR-22-EP-016443-0**

1

Date **09.05.2022**

Sample code	337-2022-00015888	337-2022-00015889	337-2022-00015890
Client sample code	K-1	K-2	K-3
Client sample description	Soil	Soil	Soil
Sampling date and time	02.05.2022.00:00	02.05.2022.00:00	02.05.2022.00:00

Unit	LOQ	Laboratory
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PAH

Chrysene

RA9002B (EVS-EN 16181:2018);
RA9002B (ISO 18287:2006)

EP05N	16	7,1	8,7	mg/kg dw	0,003	EP L272
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Naphthalene

RA9002B (EVS-EN 16181:2018);
RA9002B (ISO 18287:2006)

EP05P	68	7,4	7,7	mg/kg dw	0,003	EP L272
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Pyrene

RA9002B (EVS-EN 16181:2018);
RA9002B (ISO 18287:2006)

EP05H	30	16	20	mg/kg dw	0,003	EP L272
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Analytical Report **AR-22-EP-016443-0**

1

Date **09.05.2022**

Sample code	337-2022-00015888	337-2022-00015889	337-2022-00015890
Client sample code	K-1	K-2	K-3
Client sample description	Soil	Soil	Soil
Sampling date and time	02.05.2022.00:00	02.05.2022.00:00	02.05.2022.00:00

Unit LOQ Laboratory

Methyl- and dimethylnaphthalenes

1-Methylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	230	110	120	mg/kg dw	0,003	EP L272
2-Methylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	230	84	84	mg/kg dw	0,003	EP L272
1,2-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	29	14	18	mg/kg dw	0,003	EP L272
1,3-, 1,7- and 1,6-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	150	72	90	mg/kg dw	0,003	EP L272
1,4-, 1,5- and 2,3-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	57	29	35	mg/kg dw	0,003	EP L272
1,8-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	4,6	2,4	3,0	mg/kg dw	0,003	EP L272
2,6-Dimethylnaphthalene / 2,7-Dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	79	38	46	mg/kg dw	0,003	EP L272

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Analytical Report **AR-22-EP-016443-0**

1

Date **09.05.2022**

Sample code	337-2022-00015888	337-2022-00015889	337-2022-00015890
Client sample code	K-1	K-2	K-3
Client sample description	Soil	Soil	Soil
Sampling date and time	02.05.2022.00:00	02.05.2022.00:00	02.05.2022.00:00

Unit LOQ Laboratory

SumPAH(14) Estonian regulation no 26

Sum PAH	EPP26	1100	510	590	mg/kg dw	EP L272
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Sample code	337-2022-00015891	337-2022-00015892	337-2022-00015893
Client sample code	K-4	K-5	K-6
Client sample description	Soil	Soil	Soil
Sampling date and time	02.05.2022.00:00	02.05.2022.00:00	02.05.2022.00:00

Unit LOQ Laboratory

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Analytical Report **AR-22-EP-016443-0**

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Date **09.05.2022**

Sample code	337-2022-00015891	337-2022-00015892	337-2022-00015893
Client sample code	K-4	K-5	K-6
Client sample description	Soil	Soil	Soil
Sampling date and time	02.05.2022.00:00	02.05.2022.00:00	02.05.2022.00:00

Unit	LOQ	Laboratory
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Physical-Chemical test

Dry matter	EPDRY	91	96	94	%	3	EP L272
RA9000A (ISO 11465:1993)							

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Date **09.05.2022**

Sample code	337-2022-00015891	337-2022-00015892	337-2022-00015893
Client sample code	K-4	K-5	K-6
Client sample description	Soil	Soil	Soil
Sampling date and time	02.05.2022.00:00	02.05.2022.00:00	02.05.2022.00:00

Unit	LOQ	Laboratory
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Total hydrocarbons

Nonpolar TPH C10-C21

RA9002A (SFS-EN ISO 16703:2011;
SFS-EN ISO 9377-2:2001)

EPTPH	1800	1400	1700	mg/kg dw	20	EP L272
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Nonpolar TPH C21-C40

RA9002A (SFS-EN ISO 16703:2011;
SFS-EN ISO 9377-2:2001)

EPTPH	930	300	400	mg/kg dw	20	EP L272
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Nonpolar TPH C10-C40

RA9002A (SFS-EN ISO 16703:2011;
SFS-EN ISO 9377-2:2001)

EPTPH	2800	1700	2100	mg/kg dw	20	EP L272
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Analytical Report **AR-22-EP-016443-0**

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Date **09.05.2022**

Sample code	337-2022-00015891	337-2022-00015892	337-2022-00015893
Client sample code	K-4	K-5	K-6
Client sample description	Soil	Soil	Soil
Sampling date and time	02.05.2022.00:00	02.05.2022.00:00	02.05.2022.00:00

Unit LOQ Laboratory

PAH

Anthracene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05E	4,1	11	21	mg/kg dw	0,003	EP L272
Acenaphthene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05R	8,6	20	40	mg/kg dw	0,003	EP L272
Benzo(a)pyrene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05C	2,1	2,4	4,4	mg/kg dw	0,003	EP L272
Phenanthrene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05F	15	58	100	mg/kg dw	0,003	EP L272
Chrysene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05N	4,2	6,2	12	mg/kg dw	0,003	EP L272
Naphthalene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05P	6,8	4,4	6,0	mg/kg dw	0,003	EP L272
Pyrene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05H	11	14	29	mg/kg dw	0,003	EP L272

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Analytical Report **AR-22-EP-016443-0**

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Date **09.05.2022**

Sample code	337-2022-00015891	337-2022-00015892	337-2022-00015893
Client sample code	K-4	K-5	K-6
Client sample description	Soil	Soil	Soil
Sampling date and time	02.05.2022.00:00	02.05.2022.00:00	02.05.2022.00:00

Unit LOQ Laboratory

Methyl- and dimethylnaphthalenes

1-Methylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	12	74	87	mg/kg dw	0,003	EP L272
2-Methylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	6,4	54	59	mg/kg dw	0,003	EP L272
1,2-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	2,7	11	16	mg/kg dw	0,003	EP L272
1,3-, 1,7- and 1,6-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	16	54	87	mg/kg dw	0,003	EP L272
1,4-, 1,5- and 2,3-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	8,1	21	36	mg/kg dw	0,003	EP L272
1,8-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	1,4	2,0	4,1	mg/kg dw	0,003	EP L272
2,6-Dimethylnaphthalene /	EPP02	7,0	27	43	mg/kg dw	0,003	EP L272
2,7-Dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)							

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Analytical Report **AR-22-EP-016443-0**

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Date **09.05.2022**

Sample code	337-2022-00015891	337-2022-00015892	337-2022-00015893
Client sample code	K-4	K-5	K-6
Client sample description	Soil	Soil	Soil
Sampling date and time	02.05.2022.00:00	02.05.2022.00:00	02.05.2022.00:00

Unit LOQ Laboratory

SumPAH(14) Estonian regulation no 26

Sum PAH	EPP26	100	360	550	mg/kg dw	EP L272
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Sample code	337-2022-00015894	337-2022-00015895	337-2022-00015896
Client sample code	K-7	K-8	K-9
Client sample description	Soil	Soil	Soil
Sampling date and time	02.05.2022.00:00	02.05.2022.00:00	02.05.2022.00:00

Unit LOQ Laboratory

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Analytical Report **AR-22-EP-016443-0**

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Date **09.05.2022**

Sample code	337-2022-00015894	337-2022-00015895	337-2022-00015896
Client sample code	K-7	K-8	K-9
Client sample description	Soil	Soil	Soil
Sampling date and time	02.05.2022.00:00	02.05.2022.00:00	02.05.2022.00:00

Unit	LOQ	Laboratory
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Physical-Chemical test

Dry matter	EPDRY	93	89	87	%	3	EP L272
RA9000A (ISO 11465:1993)							

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Analytical Report **AR-22-EP-016443-0**

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Date **09.05.2022**

Sample code	337-2022-00015894	337-2022-00015895	337-2022-00015896
Client sample code	K-7	K-8	K-9
Client sample description	Soil	Soil	Soil
Sampling date and time	02.05.2022.00:00	02.05.2022.00:00	02.05.2022.00:00

Unit LOQ Laboratory

Total hydrocarbons

Nonpolar TPH C10-C21

RA9002A (SFS-EN ISO 16703:2011;
SFS-EN ISO 9377-2:2001)

EPTPH	1400	850	2900	mg/kg dw	20	EP L272
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Nonpolar TPH C21-C40

RA9002A (SFS-EN ISO 16703:2011;
SFS-EN ISO 9377-2:2001)

EPTPH	260	320	630	mg/kg dw	20	EP L272
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Nonpolar TPH C10-C40

RA9002A (SFS-EN ISO 16703:2011;
SFS-EN ISO 9377-2:2001)

EPTPH	1700	1200	3500	mg/kg dw	20	EP L272
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Date **09.05.2022**

Sample code	337-2022-00015894	337-2022-00015895	337-2022-00015896
Client sample code	K-7	K-8	K-9
Client sample description	Soil	Soil	Soil
Sampling date and time	02.05.2022.00:00	02.05.2022.00:00	02.05.2022.00:00

Unit	LOQ	Laboratory
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PAH

Anthracene

RA9002B (EVS-EN 16181:2018);
RA9002B (ISO 18287:2006)

EP05E

32

9,0

19

mg/kg dw

0,003

EP L272

Acenaphthene

RA9002B (EVS-EN 16181:2018);
RA9002B (ISO 18287:2006)

EP05R

68

18

40

mg/kg dw

0,003

EP L272

Benzo(a)pyrene

RA9002B (EVS-EN 16181:2018);
RA9002B (ISO 18287:2006)

EP05C

4,6

2,4

4,5

mg/kg dw

0,003

EP L272

Phenanthrene

RA9002B (EVS-EN 16181:2018);
RA9002B (ISO 18287:2006)

EP05F

170

40

83

mg/kg dw

0,003

EP L272

Chrysene

RA9002B (EVS-EN 16181:2018);
RA9002B (ISO 18287:2006)

EP05N

14

6,0

10

mg/kg dw

0,003

EP L272

Naphthalene

RA9002B (EVS-EN 16181:2018);
RA9002B (ISO 18287:2006)

EP05P

2,1

1,6

84

mg/kg dw

0,003

EP L272

Pyrene

RA9002B (EVS-EN 16181:2018);
RA9002B (ISO 18287:2006)

EP05H

33

17

23

mg/kg dw

0,003

EP L272

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Date **09.05.2022**

Sample code	337-2022-00015894	337-2022-00015895	337-2022-00015896
Client sample code	K-7	K-8	K-9
Client sample description	Soil	Soil	Soil
Sampling date and time	02.05.2022.00:00	02.05.2022.00:00	02.05.2022.00:00

Unit LOQ Laboratory

Methyl- and dimethylnaphthalenes

1-Methylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	190	10	120	mg/kg dw	0,003	EP L272
2-Methylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	44	4,8	95	mg/kg dw	0,003	EP L272
1,2-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	31	4,7	17	mg/kg dw	0,003	EP L272
1,3-, 1,7- and 1,6-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	160	35	100	mg/kg dw	0,003	EP L272
1,4-, 1,5- and 2,3-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	61	15	39	mg/kg dw	0,003	EP L272
1,8-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	5,0	2,1	3,9	mg/kg dw	0,003	EP L272
2,6-Dimethylnaphthalene / 2,7-Dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	84	14	50	mg/kg dw	0,003	EP L272

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Analytical Report **AR-22-EP-016443-0**

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Date **09.05.2022**

Sample code	337-2022-00015894	337-2022-00015895	337-2022-00015896
Client sample code	K-7	K-8	K-9
Client sample description	Soil	Soil	Soil
Sampling date and time	02.05.2022.00:00	02.05.2022.00:00	02.05.2022.00:00

Unit LOQ Laboratory

SumPAH(14) Estonian regulation no 26

Sum PAH	EPP26	900	180	690	mg/kg dw	EP L272
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Sample code	337-2022-00015897	337-2022-00015898	337-2022-00015899
Client sample code	K-10	K-11	K-12
Client sample description	Soil	Soil	Soil
Sampling date and time	02.05.2022.00:00	02.05.2022.00:00	02.05.2022.00:00

Unit LOQ Laboratory

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Analytical Report **AR-22-EP-016443-0**

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Date **09.05.2022**

Sample code	337-2022-00015897	337-2022-00015898	337-2022-00015899
Client sample code	K-10	K-11	K-12
Client sample description	Soil	Soil	Soil
Sampling date and time	02.05.2022.00:00	02.05.2022.00:00	02.05.2022.00:00

Unit	LOQ	Laboratory
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Physical-Chemical test

Dry matter	EPDRY	84	92	92	%	3	EP L272
RA9000A (ISO 11465:1993)							

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Analytical Report **AR-22-EP-016443-0**

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Date **09.05.2022**

Sample code	337-2022-00015897	337-2022-00015898	337-2022-00015899
Client sample code	K-10	K-11	K-12
Client sample description	Soil	Soil	Soil
Sampling date and time	02.05.2022.00:00	02.05.2022.00:00	02.05.2022.00:00

Unit	LOQ	Laboratory
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Total hydrocarbons

Nonpolar TPH C10-C21

RA9002A (SFS-EN ISO 16703:2011;
SFS-EN ISO 9377-2:2001)

EPTPH	510	1600	350	mg/kg dw	20	EP L272
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Nonpolar TPH C21-C40

RA9002A (SFS-EN ISO 16703:2011;
SFS-EN ISO 9377-2:2001)

EPTPH	170	280	260	mg/kg dw	20	EP L272
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Nonpolar TPH C10-C40

RA9002A (SFS-EN ISO 16703:2011;
SFS-EN ISO 9377-2:2001)

EPTPH	680	1900	620	mg/kg dw	20	EP L272
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Analytical Report **AR-22-EP-016443-0**

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Date **09.05.2022**

Sample code	337-2022-00015897	337-2022-00015898	337-2022-00015899
Client sample code	K-10	K-11	K-12
Client sample description	Soil	Soil	Soil
Sampling date and time	02.05.2022.00:00	02.05.2022.00:00	02.05.2022.00:00

Unit	LOQ	Laboratory
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PAH

Anthracene

RA9002B (EVS-EN 16181:2018);
RA9002B (ISO 18287:2006)

EP05E

11

12

3,0

mg/kg dw

0,003

EP L272

Acenaphthene

RA9002B (EVS-EN 16181:2018);
RA9002B (ISO 18287:2006)

EP05R

18

24

3,8

mg/kg dw

0,003

EP L272

Benzo(a)pyrene

RA9002B (EVS-EN 16181:2018);
RA9002B (ISO 18287:2006)

EP05C

2,3

2,6

2,0

mg/kg dw

0,003

EP L272

Phenanthrene

RA9002B (EVS-EN 16181:2018);
RA9002B (ISO 18287:2006)

EP05F

43

62

9,3

mg/kg dw

0,003

EP L272

Chrysene

RA9002B (EVS-EN 16181:2018);
RA9002B (ISO 18287:2006)

EP05N

5,1

6,0

2,6

mg/kg dw

0,003

EP L272

Naphthalene

RA9002B (EVS-EN 16181:2018);
RA9002B (ISO 18287:2006)

EP05P

57

1,0

0,66

mg/kg dw

0,003

EP L272

Pyrene

RA9002B (EVS-EN 16181:2018);
RA9002B (ISO 18287:2006)

EP05H

13

15

12

mg/kg dw

0,003

EP L272

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Analytical Report **AR-22-EP-016443-0**

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Date **09.05.2022**

Sample code	337-2022-00015897	337-2022-00015898	337-2022-00015899
Client sample code	K-10	K-11	K-12
Client sample description	Soil	Soil	Soil
Sampling date and time	02.05.2022.00:00	02.05.2022.00:00	02.05.2022.00:00

Unit LOQ Laboratory

Methyl- and dimethylnaphthalenes

1-Methylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	39	86	2,2	mg/kg dw	0,003	EP L272
2-Methylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	36	50	0,87	mg/kg dw	0,003	EP L272
1,2-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	9,2	12	0,90	mg/kg dw	0,003	EP L272
1,3-, 1,7- and 1,6-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	57	61	5,7	mg/kg dw	0,003	EP L272
1,4-, 1,5- and 2,3-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	24	23	2,8	mg/kg dw	0,003	EP L272
1,8-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	2,2	2,5	0,53	mg/kg dw	0,003	EP L272
2,6-Dimethylnaphthalene / 2,7-Dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	29	31	2,1	mg/kg dw	0,003	EP L272

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Analytical Report **AR-22-EP-016443-0**

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Date **09.05.2022**

Sample code	337-2022-00015897	337-2022-00015898	337-2022-00015899
Client sample code	K-10	K-11	K-12
Client sample description	Soil	Soil	Soil
Sampling date and time	02.05.2022.00:00	02.05.2022.00:00	02.05.2022.00:00

Unit LOQ Laboratory

SumPAH(14) Estonian regulation no 26

Sum PAH	EPP26	340	390	48	mg/kg dw	EP L272
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Sample code	337-2022-00015900	337-2022-00015901	337-2022-00015902
Client sample code	T-1	T-2	T-3
Client sample description	Soil	Soil	Soil
Sampling date and time	02.05.2022.00:00	02.05.2022.00:00	02.05.2022.00:00

Unit LOQ Laboratory

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Analytical Report **AR-22-EP-016443-0**

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Date **09.05.2022**

Sample code	337-2022-00015900	337-2022-00015901	337-2022-00015902
Client sample code	T-1	T-2	T-3
Client sample description	Soil	Soil	Soil
Sampling date and time	02.05.2022.00:00	02.05.2022.00:00	02.05.2022.00:00

Unit	LOQ	Laboratory
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Physical-Chemical test

Dry matter	EPDRY	93	94	94	%	3	EP L272
RA9000A (ISO 11465:1993)							

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Analytical Report **AR-22-EP-016443-0**

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Date **09.05.2022**

Sample code	337-2022-00015900	337-2022-00015901	337-2022-00015902
Client sample code	T-1	T-2	T-3
Client sample description	Soil	Soil	Soil
Sampling date and time	02.05.2022.00:00	02.05.2022.00:00	02.05.2022.00:00

Unit	LOQ	Laboratory
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Total hydrocarbons

Nonpolar TPH C10-C21

RA9002A (SFS-EN ISO 16703:2011;
SFS-EN ISO 9377-2:2001)

EPTPH	2100	6400	3000	mg/kg dw	20	EP L272
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Nonpolar TPH C21-C40

RA9002A (SFS-EN ISO 16703:2011;
SFS-EN ISO 9377-2:2001)

EPTPH	330	1500	470	mg/kg dw	20	EP L272
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Nonpolar TPH C10-C40

RA9002A (SFS-EN ISO 16703:2011;
SFS-EN ISO 9377-2:2001)

EPTPH	2500	7800	3400	mg/kg dw	20	EP L272
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Analytical Report **AR-22-EP-016443-0**

1

Date **09.05.2022**

Sample code	337-2022-00015900	337-2022-00015901	337-2022-00015902
Client sample code	T-1	T-2	T-3
Client sample description	Soil	Soil	Soil
Sampling date and time	02.05.2022.00:00	02.05.2022.00:00	02.05.2022.00:00

Unit LOQ Laboratory

PAH

Anthracene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05E	30	27	31	mg/kg dw	0,003	EP L272
Acenaphthene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05R	59	54	56	mg/kg dw	0,003	EP L272
Benzo(a)pyrene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05C	4,5	4,4	5,0	mg/kg dw	0,003	EP L272
Phenanthrene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05F	150	130	150	mg/kg dw	0,003	EP L272
Chrysene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05N	13	12	14	mg/kg dw	0,003	EP L272
Naphthalene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05P	55	110	42	mg/kg dw	0,003	EP L272
Pyrene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05H	30	27	33	mg/kg dw	0,003	EP L272

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Analytical Report **AR-22-EP-016443-0**

1

Date **09.05.2022**

Sample code	337-2022-00015900	337-2022-00015901	337-2022-00015902
Client sample code	T-1	T-2	T-3
Client sample description	Soil	Soil	Soil
Sampling date and time	02.05.2022.00:00	02.05.2022.00:00	02.05.2022.00:00

Unit LOQ Laboratory

Methyl- and dimethylnaphthalenes

1-Methylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	230	230	220	mg/kg dw	0,003	EP L272
2-Methylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	220	230	200	mg/kg dw	0,003	EP L272
1,2-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	30	28	29	mg/kg dw	0,003	EP L272
1,3-, 1,7- and 1,6-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	150	160	150	mg/kg dw	0,003	EP L272
1,4-, 1,5- and 2,3-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	59	59	56	mg/kg dw	0,003	EP L272
1,8-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	4,5	5,2	4,4	mg/kg dw	0,003	EP L272
2,6-Dimethylnaphthalene / 2,7-Dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	79	79	76	mg/kg dw	0,003	EP L272

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Analytical Report **AR-22-EP-016443-0**

1

Date **09.05.2022**

Sample code	337-2022-00015900	337-2022-00015901	337-2022-00015902
Client sample code	T-1	T-2	T-3
Client sample description	Soil	Soil	Soil
Sampling date and time	02.05.2022.00:00	02.05.2022.00:00	02.05.2022.00:00

Unit LOQ Laboratory

SumPAH(14) Estonian regulation no 26

Sum PAH	EPP26	1100	1200	1100	mg/kg dw	EP L272
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Analytical Report **AR-22-EP-016443-0**

1

Date **09.05.2022**

Laboratory

EP L272	Eurofins Environment Testing Estonia (Tallinn)	EAK accredited testing laboratory L272 in accordance with the standard EVS-EN ISO/IEC 17025:2017 EAK L272
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SIGNATURE

Eva Kristel Kail
Analytical Service Manager
EvaKristelKail@eurofins.com

This test report has been created electronically and has been verified and authorised.

Additional information

Sampling person: Artto Pello
Sampling location: Jüri Kesk tee 36, Pahnimäe pinnas

EXPLANATORY NOTE

1. This certificate may only be copied as whole.
2. Any publication of this report requires written permission. An excerpt publication is not allowed.
3. The results described apply only to the samples received.
4. All information regarding the sample (except those recorded on site or at sample registration by Eurofins) have been provided by the client. This information can have impact on the validity of the analytical results. Laboratory is not responsible for the accuracy of the information provided by the client.

< result is below LOQ
LOQ limit of quantification

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Analytical Report **AR-22-EP-021840-01**

Date **07.06.2022**

Sample(s) reception date **01.06.2022**

Our reference **EUAA55-00012021**

Client Code **EP0000006**

Technical contact for your orders **Eva Kristel Kail**

Maves OÜ

Artto Pello

Marja tn 4d
10617 Tallinn

ESTONIA

Email: artto@maves.ee

Analysis was performed between sample reception date and Analytical Report date.

Sample code	337-2022-00021708	337-2022-00021709	337-2022-00021710
Client sample code	K-1	K-2	K-3
Client sample description	Soil	Soil	Soil
Sampling date and time	31.05.2022.00:00	31.05.2022.00:00	31.05.2022.00:00

Unit LOQ Laboratory

Physical-Chemical test

Dry matter	EPDRY	96	95	94	%	3	EP L272
RA9000 (ISO 11465:1993)							

Total hydrocarbons

Nonpolar TPH C10-C21	EPTPH	1800	2800	2100	mg/kg dw	20	EP L272
RA9002A (SFS-EN ISO 16703:2011; SFS-EN ISO 9377-2:2001)							
Nonpolar TPH C21-C40	EPTPH	480	1200	680	mg/kg dw	20	EP L272
RA9002A (SFS-EN ISO 16703:2011; SFS-EN ISO 9377-2:2001)							
Nonpolar TPH C10-C40	EPTPH	2200	4000	2800	mg/kg dw	20	EP L272
RA9002A (SFS-EN ISO 16703:2011; SFS-EN ISO 9377-2:2001)							

PAH

Anthracene	EP05E	22	11	12	mg/kg dw	0,003	EP L272
RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)							
Acenaphthene	EP05R	36	21	22	mg/kg dw	0,003	EP L272
RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)							
Benzo(a)pyrene	EP05C	3,8	2,1	2,3	mg/kg dw	0,003	EP L272
RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)							
Phenanthrene	EP05F	120	59	63	mg/kg dw	0,003	EP L272
RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)							
Chrysene	EP05N	9,4	5,9	5,1	mg/kg dw	0,003	EP L272
RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)							

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Analytical Report **AR-22-EP-021840-01**

Date **07.06.2022**

Sample code	337-2022-00021708	337-2022-00021709	337-2022-00021710
Client sample code	K-1	K-2	K-3
Client sample description	Soil	Soil	Soil
Sampling date and time	31.05.2022.00:00	31.05.2022.00:00	31.05.2022.00:00

Unit LOQ Laboratory

PAH

Naphthalene

RA9002B (ISO 18287:2006); RA9002B (ISO 18287:2006)

EP05P	55	11	5,2	mg/kg dw	0,003	EP L272
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Pyrene

RA9002B (ISO 18287:2006); RA9002B (ISO 18287:2006)

EP05H	25	12	14	mg/kg dw	0,003	EP L272
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Methyl- and dimethylnaphthalenes

1-Methylnaphthalene

RA9002B (ISO 18287:2006); RA9002B (ISO 18287:2006)

EPP02	130	80	65	mg/kg dw	0,003	EP L272
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2-Methylnaphthalene

RA9002B (ISO 18287:2006); RA9002B (ISO 18287:2006)

EPP02	140	65	48	mg/kg dw	0,003	EP L272
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1,2-dimethylnaphthalene

RA9002B (ISO 18287:2006); RA9002B (ISO 18287:2006)

EPP02	21	10	11	mg/kg dw	0,003	EP L272
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1,3-, 1,7- and 1,6-dimethylnaphthalene

RA9002B (ISO 18287:2006); RA9002B (ISO 18287:2006)

EPP02	100	51	51	mg/kg dw	0,003	EP L272
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1,4-, 1,5- and 2,3-dimethylnaphthalene

RA9002B (ISO 18287:2006); RA9002B (ISO 18287:2006)

EPP02	40	22	21	mg/kg dw	0,003	EP L272
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1,8-dimethylnaphthalene

RA9002B (ISO 18287:2006); RA9002B (ISO 18287:2006)

EPP02	3,0	1,3	1,3	mg/kg dw	0,003	EP L272
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2,6-Dimethylnaphthalene / 2,7-Dimethylnaphthalene

RA9002B (ISO 18287:2006); RA9002B (ISO 18287:2006)

EPP02	54	28	27	mg/kg dw	0,003	EP L272
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SumPAH(14) Estonian regulation no 26

Sum PAH	EPP26	760	380	350	mg/kg dw	EP
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SumPAH(14) Estonian regulation no 26

Sum PAH	EPP26	760	380	350	mg/kg dw	EP
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Sample code	337-2022-00021711	337-2022-00021712	337-2022-00021713
Client sample code	K-4	K-5	K-6
Client sample description	Soil	Soil	Soil
Sampling date and time	31.05.2022.00:00	31.05.2022.00:00	31.05.2022.00:00

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Analytical Report **AR-22-EP-021840-01**

Date **07.06.2022**

Sample code	337-2022-00021711	337-2022-00021712	337-2022-00021713
Client sample code	K-4	K-5	K-6
Client sample description	Soil	Soil	Soil
Sampling date and time	31.05.2022.00:00	31.05.2022.00:00	31.05.2022.00:00

Unit LOQ Laboratory

Physical-Chemical test

Dry matter	EPDRY	91	93	93	%	3	EP L272
RA9000 (ISO 11465:1993)							

Total hydrocarbons

Nonpolar TPH C10-C21	EPTPH	220	920	1700	mg/kg dw	20	EP L272
RA9002A (SFS-EN ISO 16703:2011; SFS-EN ISO 9377-2:2001)							
Nonpolar TPH C21-C40	EPTPH	240	610	470	mg/kg dw	20	EP L272
RA9002A (SFS-EN ISO 16703:2011; SFS-EN ISO 9377-2:2001)							
Nonpolar TPH C10-C40	EPTPH	460	1500	2200	mg/kg dw	20	EP L272
RA9002A (SFS-EN ISO 16703:2011; SFS-EN ISO 9377-2:2001)							

PAH

Anthracene	EP05E	1,6	4,4	21	mg/kg dw	0,003	EP L272
RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)							
Acenaphthene	EP05R	1,3	7,3	39	mg/kg dw	0,003	EP L272
RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)							
Benzo(a)pyrene	EP05C	1,4	2,7	3,7	mg/kg dw	0,003	EP L272
RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)							
Phenanthrene	EP05F	3,8	16	100	mg/kg dw	0,003	EP L272
RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)							
Chrysene	EP05N	1,9	3,2	9,3	mg/kg dw	0,003	EP L272
RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)							
Naphthalene	EP05P	0,55	0,69	2,7	mg/kg dw	0,003	EP L272
RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)							
Pyrene	EP05H	6,6	12	25	mg/kg dw	0,003	EP L272
RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)							

Methyl- and dimethylnaphthalenes

1-Methylnaphthalene	EPP02	0,96	11	120	mg/kg dw	0,003	EP L272
RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)							

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Analytical Report **AR-22-EP-021840-01**

Date **07.06.2022**

Sample code	337-2022-00021711	337-2022-00021712	337-2022-00021713
Client sample code	K-4	K-5	K-6
Client sample description	Soil	Soil	Soil
Sampling date and time	31.05.2022.00:00	31.05.2022.00:00	31.05.2022.00:00

Unit LOQ Laboratory

Methyl- and dimethylnaphthalenes

2-Methylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	0,78	3,7	74	mg/kg dw	0,003	EP L272
1,2-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	0,32	2,2	18	mg/kg dw	0,003	EP L272
1,3-, 1,7- and 1,6-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	2,4	13	91	mg/kg dw	0,003	EP L272
1,4-, 1,5- and 2,3-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	1,3	5,4	35	mg/kg dw	0,003	EP L272
1,8-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	0,25	0,50	2,3	mg/kg dw	0,003	EP L272
2,6-Dimethylnaphthalene / 2,7-Dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	0,84	5,7	48	mg/kg dw	0,003	EP L272

SumPAH(14) Estonian regulation no 26

Sum PAH	EPP26	24	88	590	mg/kg dw		EP
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Sample code	337-2022-00021714	337-2022-00021715	337-2022-00021716
Client sample code	K-7	K-8	K-9
Client sample description	Soil	Soil	Soil
Sampling date and time	31.05.2022.00:00	31.05.2022.00:00	31.05.2022.00:00

Unit LOQ Laboratory

Physical-Chemical test

Dry matter RA9000 (ISO 11465:1993)	EPDRY	92	95	83	%	3	EP L272
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Total hydrocarbons

Nonpolar TPH C10-C21 RA9002A (SFS-EN ISO 16703:2011; SFS-EN ISO 9377-2:2001)	EPTPH	1500	1600	650	mg/kg dw	20	EP L272
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Analytical Report **AR-22-EP-021840-01**

Date **07.06.2022**

Sample code	337-2022-00021714	337-2022-00021715	337-2022-00021716
Client sample code	K-7	K-8	K-9
Client sample description	Soil	Soil	Soil
Sampling date and time	31.05.2022.00:00	31.05.2022.00:00	31.05.2022.00:00

Unit LOQ Laboratory

Total hydrocarbons

Nonpolar TPH C21-C40

RA9002A (SFS-EN ISO 16703:2011; SFS-EN ISO 9377-2:2001)

EPTPH	410	680	260	mg/kg dw	20	EP L272
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Nonpolar TPH C10-C40

RA9002A (SFS-EN ISO 16703:2011; SFS-EN ISO 9377-2:2001)

EPTPH	1900	2300	910	mg/kg dw	20	EP L272
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PAH

Anthracene

RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)

EP05E	17	18	9,9	mg/kg dw	0,003	EP L272
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Acenaphthene

RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)

EP05R	33	30	16	mg/kg dw	0,003	EP L272
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Benzo(a)pyrene

RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)

EP05C	3,0	3,4	2,8	mg/kg dw	0,003	EP L272
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Phenanthrene

RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)

EP05F	80	76	28	mg/kg dw	0,003	EP L272
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Chrysene

RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)

EP05N	7,3	9,4	6,0	mg/kg dw	0,003	EP L272
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Naphthalene

RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)

EP05P	0,50	0,64	5,1	mg/kg dw	0,003	EP L272
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Pyrene

RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)

EP05H	20	23	16	mg/kg dw	0,003	EP L272
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Methyl- and dimethylnaphthalenes

1-Methylnaphthalene

RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)

EPP02	63	50	20	mg/kg dw	0,003	EP L272
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2-Methylnaphthalene

RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)

EPP02	25	5,0	7,8	mg/kg dw	0,003	EP L272
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1,2-dimethylnaphthalene

RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)

EPP02	14	11	4,0	mg/kg dw	0,003	EP L272
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1,3-, 1,7- and 1,6-dimethylnaphthalene

RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)

EPP02	77	67	32	mg/kg dw	0,003	EP L272
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Analytical Report **AR-22-EP-021840-01**
Date **07.06.2022**

Sample code	337-2022-00021714	337-2022-00021715	337-2022-00021716
Client sample code	K-7	K-8	K-9
Client sample description	Soil	Soil	Soil
Sampling date and time	31.05.2022.00:00	31.05.2022.00:00	31.05.2022.00:00

Unit LOQ Laboratory

Methyl- and dimethylnaphthalenes

1,4-, 1,5- and 2,3-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	29	28	14	mg/kg dw	0,003	EP L272
1,8-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	2,0	2,3	1,2	mg/kg dw	0,003	EP L272
2,6-Dimethylnaphthalene / 2,7-Dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	38	35	13	mg/kg dw	0,003	EP L272

SumPAH(14) Estonian regulation no 26

Sum PAH	EPP26	410	360	180	mg/kg dw		EP
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Sample code	337-2022-00021717	337-2022-00021718	337-2022-00021719
Client sample code	K-10	K-11	K-12
Client sample description	Soil	Soil	Soil
Sampling date and time	31.05.2022.00:00	31.05.2022.00:00	31.05.2022.00:00

Unit LOQ Laboratory

Physical-Chemical test

Dry matter RA9000 (ISO 11465:1993)	EPDRY	88	90	90	%	3	EP L272
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Total hydrocarbons

Nonpolar TPH C10-C21 RA9002A (SFS-EN ISO 16703:2011; SFS-EN ISO 9377-2:2001)	EPTPH	280	540	520	mg/kg dw	20	EP L272
Nonpolar TPH C21-C40 RA9002A (SFS-EN ISO 16703:2011; SFS-EN ISO 9377-2:2001)	EPTPH	560	360	820	mg/kg dw	20	EP L272
Nonpolar TPH C10-C40 RA9002A (SFS-EN ISO 16703:2011; SFS-EN ISO 9377-2:2001)	EPTPH	840	900	1300	mg/kg dw	20	EP L272

PAH

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Analytical Report **AR-22-EP-021840-01**

Date **07.06.2022**

Sample code	337-2022-00021717	337-2022-00021718	337-2022-00021719
Client sample code	K-10	K-11	K-12
Client sample description	Soil	Soil	Soil
Sampling date and time	31.05.2022.00:00	31.05.2022.00:00	31.05.2022.00:00

Unit LOQ Laboratory

PAH

Anthracene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05E	1,2	4,0	1,2	mg/kg dw	0,003	EP L272
Acenaphthene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05R	0,35	4,2	0,61	mg/kg dw	0,003	EP L272
Benzo(a)pyrene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05C	2,0	3,0	2,3	mg/kg dw	0,003	EP L272
Phenanthrene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05F	1,4	12	1,7	mg/kg dw	0,003	EP L272
Chrysene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05N	1,2	3,7	1,2	mg/kg dw	0,003	EP L272
Naphthalene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05P	0,46	0,94	0,38	mg/kg dw	0,003	EP L272
Pyrene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05H	8,1	16	11	mg/kg dw	0,003	EP L272

Methyl- and dimethylnaphthalenes

1-Methylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	0,55	3,0	0,66	mg/kg dw	0,003	EP L272
2-Methylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	0,44	1,5	0,40	mg/kg dw	0,003	EP L272
1,2-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	0,10	0,99	0,15	mg/kg dw	0,003	EP L272
1,3-, 1,7- and 1,6-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	0,75	6,5	0,96	mg/kg dw	0,003	EP L272
1,4-, 1,5- and 2,3-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	0,40	3,1	0,52	mg/kg dw	0,003	EP L272
1,8-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	0,061	0,50	0,13	mg/kg dw	0,003	EP L272
2,6-Dimethylnaphthalene / 2,7-Dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	0,31	2,7	0,35	mg/kg dw	0,003	EP L272

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Analytical Report **AR-22-EP-021840-01**

Date **07.06.2022**

Sample code	337-2022-00021717	337-2022-00021718	337-2022-00021719
Client sample code	K-10	K-11	K-12
Client sample description	Soil	Soil	Soil
Sampling date and time	31.05.2022.00:00	31.05.2022.00:00	31.05.2022.00:00

Unit LOQ Laboratory

SumPAH(14) Estonian regulation no 26

Sum PAH	EPP26	17	63	21	mg/kg dw	EP
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Sample code	337-2022-00021720	337-2022-00021721	337-2022-00021722
Client sample code	T-1	T-2	T-3
Client sample description	Soil	Soil	Soil
Sampling date and time	31.05.2022.00:00	31.05.2022.00:00	31.05.2022.00:00

Unit LOQ Laboratory

Physical-Chemical test

Dry matter	EPDRY	91	92	92	%	3	EP L272
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RA9000 (ISO 11465:1993)

Total hydrocarbons

Nonpolar TPH C10-C21	EPTPH	780	2500	2900	mg/kg dw	20	EP L272
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RA9002A (SFS-EN ISO 16703:2011; SFS-EN ISO 9377-2:2001)

Nonpolar TPH C21-C40	EPTPH	250	830	760	mg/kg dw	20	EP L272
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RA9002A (SFS-EN ISO 16703:2011; SFS-EN ISO 9377-2:2001)

Nonpolar TPH C10-C40	EPTPH	1000	3300	3700	mg/kg dw	20	EP L272
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RA9002A (SFS-EN ISO 16703:2011; SFS-EN ISO 9377-2:2001)

PAH

Anthracene	EP05E	22	21	29	mg/kg dw	0,003	EP L272
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RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)

Acenaphthene	EP05R	37	36	56	mg/kg dw	0,003	EP L272
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RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)

Benzo(a)pyrene	EP05C	3,8	3,8	5,2	mg/kg dw	0,003	EP L272
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RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)

Phenanthrene	EP05F	110	110	150	mg/kg dw	0,003	EP L272
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RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)

Chrysene	EP05N	10	9,0	13	mg/kg dw	0,003	EP L272
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RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)

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Analytical Report **AR-22-EP-021840-01**

Date **07.06.2022**

Sample code	337-2022-00021720	337-2022-00021721	337-2022-00021722
Client sample code	T-1	T-2	T-3
Client sample description	Soil	Soil	Soil
Sampling date and time	31.05.2022.00:00	31.05.2022.00:00	31.05.2022.00:00

Unit	LOQ	Laboratory
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PAH

Naphthalene

RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)

EP05P	26	32	59	mg/kg dw	0,003	EP L272
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Pyrene

RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)

EP05H	25	24	32	mg/kg dw	0,003	EP L272
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Methyl- and dimethylnaphthalenes

1-Methylnaphthalene

RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)

EPP02	130	120	190	mg/kg dw	0,003	EP L272
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2-Methylnaphthalene

RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)

EPP02	110	110	190	mg/kg dw	0,003	EP L272
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1,2-dimethylnaphthalene

RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)

EPP02	20	18	29	mg/kg dw	0,003	EP L272
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1,3-, 1,7- and 1,6-dimethylnaphthalene

RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)

EPP02	99	93	140	mg/kg dw	0,003	EP L272
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1,4-, 1,5- and 2,3-dimethylnaphthalene

RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)

EPP02	39	36	56	mg/kg dw	0,003	EP L272
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1,8-dimethylnaphthalene

RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)

EPP02	2,7	2,3	3,5	mg/kg dw	0,003	EP L272
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2,6-Dimethylnaphthalene / 2,7-Dimethylnaphthalene

RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)

EPP02	53	50	74	mg/kg dw	0,003	EP L272
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SumPAH(14) Estonian regulation no 26

Sum PAH

EPP26	690	660	1000	mg/kg dw		EP
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Analytical Report **AR-22-EP-021840-01**Date **07.06.2022****Laboratory**

EP	Eurofins Environment Testing Estonia (Tallinn)	(Not accredited)
EP L272	Eurofins Environment Testing Estonia (Tallinn)	EAK accredited testing laboratory L272 in accordance with the standard EVS-EN ISO/IEC 17025:2017 EAK L272

SIGNATURE

Eva Kristel Kail
Analytical Service Manager
EvaKristelKail@eurofins.com

This test report has been created electronically and has been verified and authorised.

Additional information

Sampling person: Artto Pello
Sampling location: Juri kesk tee 36, Pannimäe ABT pinnas

EXPLANATORY NOTE

1. This certificate may only be copied as whole.
2. Any publication of this report requires written permission. An excerpt publication is not allowed.
3. The results described apply only to the samples received.
4. All information regarding the sample (except those recorded on site or at sample registration by Eurofins) have been provided by the client. This information can have impact on the validity of the analytical results. Laboratory is not responsible for the accuracy of the information provided by the client.

< result is below LOQ
LOQ limit of quantification

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Analytical Report **AR-22-EP-027160-01**

Date **11.07.2022**

Sample(s) reception date **01.07.2022**

Our reference **EUA55-00012573**

Client Code **EP0000006**

Technical contact for your orders **Eva Kristel Kail**

Maves OÜ

Artto Pello

Marja tn 4d

10617 Tallinn

ESTONIA

Email: artto@maves.ee

Analysis was performed between sample reception date and Analytical Report date.

Sample code	337-2022-00027112	337-2022-00027113	337-2022-00027114
Client sample code	K-1	K-2	K-3
Client sample description	Soil	Soil	Soil
Sampling date and time	30.06.2022.00:00	30.06.2022.00:00	30.06.2022.00:00

Unit LOQ Laboratory

Physical-Chemical test

Dry matter	EPDRY	94	97	97	%	3	EP L272
RA9000 (ISO 11465:1993)							

Total hydrocarbons

Nonpolar TPH C10-C21	EPTPH	1300	1700	2000	mg/kg dw	20	EP L272
RA9002A (SFS-EN ISO 16703:2011; SFS-EN ISO 9377-2:2001)							
Nonpolar TPH C21-C40	EPTPH	410	390	430	mg/kg dw	20	EP L272
RA9002A (SFS-EN ISO 16703:2011; SFS-EN ISO 9377-2:2001)							
Nonpolar TPH C10-C40	EPTPH	1700	2100	2400	mg/kg dw	20	EP L272
RA9002A (SFS-EN ISO 16703:2011; SFS-EN ISO 9377-2:2001)							

PAH

Anthracene	EP05E	28	20	25	mg/kg dw	0,003	EP L272
RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)							
Acenaphthene	EP05R	48	34	41	mg/kg dw	0,003	EP L272
RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)							
Benzo(a)pyrene	EP05C	5,3	3,8	4,4	mg/kg dw	0,003	EP L272
RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)							
Phenanthrene	EP05F	140	110	130	mg/kg dw	0,003	EP L272
RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)							
Chrysene	EP05N	15	11	12	mg/kg dw	0,003	EP L272
RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)							

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Analytical Report **AR-22-EP-027160-01**

Date **11.07.2022**

Sample code	337-2022-00027112	337-2022-00027113	337-2022-00027114
Client sample code	K-1	K-2	K-3
Client sample description	Soil	Soil	Soil
Sampling date and time	30.06.2022.00:00	30.06.2022.00:00	30.06.2022.00:00

Unit LOQ Laboratory

PAH

Naphthalene

RA9002B (ISO 18287:2006); RA9002B (ISO 18287:2006)

EP05P	12	6,6	12	mg/kg dw	0,003	EP L272
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Pyrene

RA9002B (ISO 18287:2006); RA9002B (ISO 18287:2006)

EP05H	34	23	27	mg/kg dw	0,003	EP L272
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Methyl- and dimethylnaphthalenes

1-Methylnaphthalene

RA9002B (ISO 18287:2006); RA9002B (ISO 18287:2006)

EPP02	170	150	190	mg/kg dw	0,003	EP L272
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2-Methylnaphthalene

RA9002B (ISO 18287:2006); RA9002B (ISO 18287:2006)

EPP02	120	97	130	mg/kg dw	0,003	EP L272
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1,2-dimethylnaphthalene

RA9002B (ISO 18287:2006); RA9002B (ISO 18287:2006)

EPP02	26	21	27	mg/kg dw	0,003	EP L272
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1,3-, 1,7- and 1,6-dimethylnaphthalene

RA9002B (ISO 18287:2006); RA9002B (ISO 18287:2006)

EPP02	140	100	130	mg/kg dw	0,003	EP L272
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1,4-, 1,5- and 2,3-dimethylnaphthalene

RA9002B (ISO 18287:2006); RA9002B (ISO 18287:2006)

EPP02	54	40	51	mg/kg dw	0,003	EP L272
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1,8-dimethylnaphthalene

RA9002B (ISO 18287:2006); RA9002B (ISO 18287:2006)

EPP02	5,1	3,9	4,5	mg/kg dw	0,003	EP L272
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2,6-Dimethylnaphthalene / 2,7-Dimethylnaphthalene

RA9002B (ISO 18287:2006); RA9002B (ISO 18287:2006)

EPP02	70	52	71	mg/kg dw	0,003	EP L272
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SumPAH(14) Estonian regulation no 26

EPC14	870	670	850	mg/kg dw		EP
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Sum PAH						
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SumPAH(14) Estonian regulation no 26

EPC14	870	670	850	mg/kg dw		EP
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Sum PAH						
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Sample code	337-2022-00027115	337-2022-00027116	337-2022-00027117
Client sample code	K-4	K-5	K-6
Client sample description	Soil	Soil	Soil
Sampling date and time	30.06.2022.00:00	30.06.2022.00:00	30.06.2022.00:00

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Analytical Report **AR-22-EP-027160-01**

Date **11.07.2022**

Sample code	337-2022-00027115	337-2022-00027116	337-2022-00027117
Client sample code	K-4	K-5	K-6
Client sample description	Soil	Soil	Soil
Sampling date and time	30.06.2022.00:00	30.06.2022.00:00	30.06.2022.00:00

Unit LOQ Laboratory

Physical-Chemical test

Dry matter	EPDRY	89	95	94	%	3	EP L272
RA9000 (ISO 11465:1993)							

Total hydrocarbons

Nonpolar TPH C10-C21	EPTPH	180	310	690	mg/kg dw	20	EP L272
RA9002A (SFS-EN ISO 16703:2011; SFS-EN ISO 9377-2:2001)							
Nonpolar TPH C21-C40	EPTPH	360	260	360	mg/kg dw	20	EP L272
RA9002A (SFS-EN ISO 16703:2011; SFS-EN ISO 9377-2:2001)							
Nonpolar TPH C10-C40	EPTPH	540	560	1000	mg/kg dw	20	EP L272
RA9002A (SFS-EN ISO 16703:2011; SFS-EN ISO 9377-2:2001)							

PAH

Anthracene	EP05E	1,7	2,3	8,6	mg/kg dw	0,003	EP L272
RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)							
Acenaphthene	EP05R	0,87	0,69	10	mg/kg dw	0,003	EP L272
RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)							
Benzo(a)pyrene	EP05C	1,6	2,2	4,5	mg/kg dw	0,003	EP L272
RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)							
Phenanthrene	EP05F	4,0	4,6	30	mg/kg dw	0,003	EP L272
RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)							
Chrysene	EP05N	2,0	1,8	6,5	mg/kg dw	0,003	EP L272
RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)							
Naphthalene	EP05P	1,3	0,47	2,2	mg/kg dw	0,003	EP L272
RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)							
Pyrene	EP05H	4,9	10	18	mg/kg dw	0,003	EP L272
RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)							

Methyl- and dimethylnaphthalenes

1-Methylnaphthalene	EPP02	1,1	0,69	9,4	mg/kg dw	0,003	EP L272
RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)							

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Analytical Report **AR-22-EP-027160-01**

Date **11.07.2022**

Sample code	337-2022-00027115	337-2022-00027116	337-2022-00027117
Client sample code	K-4	K-5	K-6
Client sample description	Soil	Soil	Soil
Sampling date and time	30.06.2022.00:00	30.06.2022.00:00	30.06.2022.00:00

Unit LOQ Laboratory

Methyl- and dimethylnaphthalenes

2-Methylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	0,97	0,43	5,5	mg/kg dw	0,003	EP L272
1,2-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	0,27	0,26	3,3	mg/kg dw	0,003	EP L272
1,3-, 1,7- and 1,6-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	1,7	1,4	16	mg/kg dw	0,003	EP L272
1,4-, 1,5- and 2,3-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	0,95	0,62	8,8	mg/kg dw	0,003	EP L272
1,8-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	0,22	0,16	1,7	mg/kg dw	0,003	EP L272
2,6-Dimethylnaphthalene / 2,7-Dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	0,71	0,64	6,6	mg/kg dw	0,003	EP L272

SumPAH(14) Estonian regulation no 26

Sum PAH	EPC14	22	27	130	mg/kg dw		EP
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Sample code	337-2022-00027118	337-2022-00027119	337-2022-00027120
Client sample code	K-7	K-8	K-9
Client sample description	Soil	Soil	Soil
Sampling date and time	30.06.2022.00:00	30.06.2022.00:00	30.06.2022.00:00

Unit LOQ Laboratory

Physical-Chemical test

Dry matter RA9000 (ISO 11465:1993)	EPDRY	95	95	89	%	3	EP L272
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Total hydrocarbons

Nonpolar TPH C10-C21 RA9002A (SFS-EN ISO 16703:2011; SFS-EN ISO 9377-2:2001)	EPTPH	460	440	330	mg/kg dw	20	EP L272
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Analytical Report **AR-22-EP-027160-01**

Date **11.07.2022**

Sample code	337-2022-00027118	337-2022-00027119	337-2022-00027120
Client sample code	K-7	K-8	K-9
Client sample description	Soil	Soil	Soil
Sampling date and time	30.06.2022.00:00	30.06.2022.00:00	30.06.2022.00:00

Unit LOQ Laboratory

Total hydrocarbons

Nonpolar TPH C21-C40

RA9002A (SFS-EN ISO 16703:2011; SFS-EN ISO 9377-2:2001)

EPTPH	250	310	270	mg/kg dw	20	EP L272
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Nonpolar TPH C10-C40

RA9002A (SFS-EN ISO 16703:2011; SFS-EN ISO 9377-2:2001)

EPTPH	720	750	590	mg/kg dw	20	EP L272
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PAH

Anthracene

RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)

EP05E	13	8,5	3,8	mg/kg dw	0,003	EP L272
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Acenaphthene

RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)

EP05R	18	14	4,1	mg/kg dw	0,003	EP L272
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Benzo(a)pyrene

RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)

EP05C	3,5	3,4	2,4	mg/kg dw	0,003	EP L272
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Phenanthrene

RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)

EP05F	52	23	13	mg/kg dw	0,003	EP L272
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Chrysene

RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)

EP05N	8,3	8,1	3,3	mg/kg dw	0,003	EP L272
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Naphthalene

RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)

EP05P	0,88	1,6	0,70	mg/kg dw	0,003	EP L272
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Pyrene

RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)

EP05H	22	21	13	mg/kg dw	0,003	EP L272
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Methyl- and dimethylnaphthalenes

1-Methylnaphthalene

RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)

EPP02	20	6,6	4,5	mg/kg dw	0,003	EP L272
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2-Methylnaphthalene

RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)

EPP02	3,5	2,2	1,0	mg/kg dw	0,003	EP L272
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1,2-dimethylnaphthalene

RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)

EPP02	6,0	2,6	1,2	mg/kg dw	0,003	EP L272
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1,3-, 1,7- and 1,6-dimethylnaphthalene

RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)

EPP02	41	23	8,1	mg/kg dw	0,003	EP L272
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Analytical Report **AR-22-EP-027160-01**

Date **11.07.2022**

Sample code	337-2022-00027118	337-2022-00027119	337-2022-00027120
Client sample code	K-7	K-8	K-9
Client sample description	Soil	Soil	Soil
Sampling date and time	30.06.2022.00:00	30.06.2022.00:00	30.06.2022.00:00

Unit LOQ Laboratory

Methyl- and dimethylnaphthalenes

1,4-, 1,5- and 2,3-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	17	12	4,1	mg/kg dw	0,003	EP L272
1,8-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	2,8	2,6	0,71	mg/kg dw	0,003	EP L272
2,6-Dimethylnaphthalene / 2,7-Dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	19	9,1	3,0	mg/kg dw	0,003	EP L272

SumPAH(14) Estonian regulation no 26

Sum PAH	EPC14	230	140	63	mg/kg dw		EP
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Sample code	337-2022-00027121	337-2022-00027122	337-2022-00027123
Client sample code	K-10	K-11	K-12
Client sample description	Soil	Soil	Soil
Sampling date and time	30.06.2022.00:00	30.06.2022.00:00	30.06.2022.00:00

Unit LOQ Laboratory

Physical-Chemical test

Dry matter RA9000 (ISO 11465:1993)	EPDRY	88	92	89	%	3	EP L272
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Total hydrocarbons

Nonpolar TPH C10-C21 RA9002A (SFS-EN ISO 16703:2011; SFS-EN ISO 9377-2:2001)	EPTPH	150	260	230	mg/kg dw	20	EP L272
Nonpolar TPH C21-C40 RA9002A (SFS-EN ISO 16703:2011; SFS-EN ISO 9377-2:2001)	EPTPH	270	280	270	mg/kg dw	20	EP L272
Nonpolar TPH C10-C40 RA9002A (SFS-EN ISO 16703:2011; SFS-EN ISO 9377-2:2001)	EPTPH	420	540	510	mg/kg dw	20	EP L272

PAH

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Analytical Report **AR-22-EP-027160-01**

Date **11.07.2022**

Sample code	337-2022-00027121	337-2022-00027122	337-2022-00027123
Client sample code	K-10	K-11	K-12
Client sample description	Soil	Soil	Soil
Sampling date and time	30.06.2022.00:00	30.06.2022.00:00	30.06.2022.00:00

Unit LOQ Laboratory

PAH

Anthracene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05E	1,6	3,4	2,0	mg/kg dw	0,003	EP L272
Acenaphthene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05R	0,24	2,9	0,70	mg/kg dw	0,003	EP L272
Benzo(a)pyrene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05C	2,2	2,9	2,0	mg/kg dw	0,003	EP L272
Phenanthrene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05F	1,3	9,4	2,4	mg/kg dw	0,003	EP L272
Chrysene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05N	0,57	1,4	1,1	mg/kg dw	0,003	EP L272
Naphthalene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05P	1,6	35	1,2	mg/kg dw	0,003	EP L272
Pyrene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05H	3,3	7,6	6,7	mg/kg dw	0,003	EP L272

Methyl- and dimethylnaphthalenes

1-Methylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	0,82	15	1,2	mg/kg dw	0,003	EP L272
2-Methylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	0,70	12	0,76	mg/kg dw	0,003	EP L272
1,2-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	0,16	1,5	0,30	mg/kg dw	0,003	EP L272
1,3-, 1,7- and 1,6-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	0,87	9,3	1,5	mg/kg dw	0,003	EP L272
1,4-, 1,5- and 2,3-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	0,58	3,5	0,93	mg/kg dw	0,003	EP L272
1,8-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	0,057	0,36	0,19	mg/kg dw	0,003	EP L272
2,6-Dimethylnaphthalene / 2,7-Dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	0,47	4,5	0,65	mg/kg dw	0,003	EP L272

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Analytical Report **AR-22-EP-027160-01**

Date **11.07.2022**

Sample code	337-2022-00027121	337-2022-00027122	337-2022-00027123
Client sample code	K-10	K-11	K-12
Client sample description	Soil	Soil	Soil
Sampling date and time	30.06.2022.00:00	30.06.2022.00:00	30.06.2022.00:00

Unit LOQ Laboratory

SumPAH(14) Estonian regulation no 26

Sum PAH	EPC14	15	110	22	mg/kg dw	EP
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Sample code	337-2022-00027124	337-2022-00027125	337-2022-00027126
Client sample code	T-1	T-2	T-3
Client sample description	Soil	Soil	Soil
Sampling date and time	30.06.2022.00:00	30.06.2022.00:00	30.06.2022.00:00

Unit LOQ Laboratory

Physical-Chemical test

Dry matter	EPDRY	95	92	95	%	3	EP L272
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RA9000 (ISO 11465:1993)

Total hydrocarbons

Nonpolar TPH C10-C21	EPTPH	1800	1200	1100	mg/kg dw	20	EP L272
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RA9002A (SFS-EN ISO 16703:2011; SFS-EN ISO 9377-2:2001)

Nonpolar TPH C21-C40	EPTPH	590	400	390	mg/kg dw	20	EP L272
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RA9002A (SFS-EN ISO 16703:2011; SFS-EN ISO 9377-2:2001)

Nonpolar TPH C10-C40	EPTPH	2400	1600	1500	mg/kg dw	20	EP L272
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RA9002A (SFS-EN ISO 16703:2011; SFS-EN ISO 9377-2:2001)

PAH

Anthracene	EP05E	40	24	27	mg/kg dw	0,003	EP L272
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RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)

Acenaphthene	EP05R	71	37	44	mg/kg dw	0,003	EP L272
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RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)

Benzo(a)pyrene	EP05C	6,8	4,3	4,9	mg/kg dw	0,003	EP L272
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RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)

Phenanthrene	EP05F	200	120	130	mg/kg dw	0,003	EP L272
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RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)

Chrysene	EP05N	19	12	14	mg/kg dw	0,003	EP L272
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RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)

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Analytical Report **AR-22-EP-027160-01**

Date **11.07.2022**

Sample code	337-2022-00027124	337-2022-00027125	337-2022-00027126
Client sample code	T-1	T-2	T-3
Client sample description	Soil	Soil	Soil
Sampling date and time	30.06.2022.00:00	30.06.2022.00:00	30.06.2022.00:00

Unit LOQ Laboratory

PAH

Naphthalene

RA9002B (ISO 18287:2006); RA9002B (ISO 18287:2006)

EP05P	45	30	27	mg/kg dw	0,003	EP L272
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Pyrene

RA9002B (ISO 18287:2006); RA9002B (ISO 18287:2006)

EP05H	44	29	31	mg/kg dw	0,003	EP L272
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Methyl- and dimethylnaphthalenes

1-Methylnaphthalene

RA9002B (ISO 18287:2006); RA9002B (ISO 18287:2006)

EPP02	280	140	190	mg/kg dw	0,003	EP L272
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2-Methylnaphthalene

RA9002B (ISO 18287:2006); RA9002B (ISO 18287:2006)

EPP02	250	88	140	mg/kg dw	0,003	EP L272
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1,2-dimethylnaphthalene

RA9002B (ISO 18287:2006); RA9002B (ISO 18287:2006)

EPP02	39	24	27	mg/kg dw	0,003	EP L272
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1,3-, 1,7- and 1,6-dimethylnaphthalene

RA9002B (ISO 18287:2006); RA9002B (ISO 18287:2006)

EPP02	190	130	140	mg/kg dw	0,003	EP L272
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1,4-, 1,5- and 2,3-dimethylnaphthalene

RA9002B (ISO 18287:2006); RA9002B (ISO 18287:2006)

EPP02	74	50	53	mg/kg dw	0,003	EP L272
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1,8-dimethylnaphthalene

RA9002B (ISO 18287:2006); RA9002B (ISO 18287:2006)

EPP02	6,5	5,8	4,9	mg/kg dw	0,003	EP L272
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2,6-Dimethylnaphthalene / 2,7-Dimethylnaphthalene

RA9002B (ISO 18287:2006); RA9002B (ISO 18287:2006)

EPP02	100	68	70	mg/kg dw	0,003	EP L272
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SumPAH(14) Estonian regulation no 26

Sum PAH	EPC14	1400	760	910	mg/kg dw	EP
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Sample code	337-2022-00027127	337-2022-00027128	337-2022-00027129
Client sample code	BIO5	BIO6	BIO4
Client sample description	Soil	Soil	Soil
Sampling date and time	30.06.2022.00:00	30.06.2022.00:00	30.06.2022.00:00

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Analytical Report **AR-22-EP-027160-01**

Date **11.07.2022**

Sample code	337-2022-00027127	337-2022-00027128	337-2022-00027129
Client sample code	BIO5	BIO6	BIO4
Client sample description	Soil	Soil	Soil
Sampling date and time	30.06.2022.00:00	30.06.2022.00:00	30.06.2022.00:00

Unit LOQ Laboratory

Physical-Chemical test

Dry matter	EPDRY	89	94	92	%	3	EP L272
RA9000 (ISO 11465:1993)							

Total hydrocarbons

Nonpolar TPH C10-C21	EPTPH	530	540	750	mg/kg dw	20	EP L272
RA9002A (SFS-EN ISO 16703:2011; SFS-EN ISO 9377-2:2001)							
Nonpolar TPH C21-C40	EPTPH	300	410	470	mg/kg dw	20	EP L272
RA9002A (SFS-EN ISO 16703:2011; SFS-EN ISO 9377-2:2001)							
Nonpolar TPH C10-C40	EPTPH	830	950	1200	mg/kg dw	20	EP L272
RA9002A (SFS-EN ISO 16703:2011; SFS-EN ISO 9377-2:2001)							

PAH

Anthracene	EP05E	2,2	3,8	2,7	mg/kg dw	0,003	EP L272
RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)							
Acenaphthene	EP05R	0,99	1,9	2,3	mg/kg dw	0,003	EP L272
RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)							
Benzo(a)pyrene	EP05C	2,0	3,0	2,7	mg/kg dw	0,003	EP L272
RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)							
Phenanthrene	EP05F	3,2	5,4	4,7	mg/kg dw	0,003	EP L272
RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)							
Chrysene	EP05N	1,3	2,7	2,0	mg/kg dw	0,003	EP L272
RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)							
Naphthalene	EP05P	1,7	4,7	1,2	mg/kg dw	0,003	EP L272
RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)							
Pyrene	EP05H	5,8	10	9,2	mg/kg dw	0,003	EP L272
RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)							

Methyl- and dimethylnaphthalenes

1-Methylnaphthalene	EPP02	2,0	4,6	4,2	mg/kg dw	0,003	EP L272
RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)							

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Analytical Report **AR-22-EP-027160-01**

Date **11.07.2022**

Sample code	337-2022-00027127	337-2022-00027128	337-2022-00027129
Client sample code	BIO5	BIO6	BIO4
Client sample description	Soil	Soil	Soil
Sampling date and time	30.06.2022.00:00	30.06.2022.00:00	30.06.2022.00:00

Unit LOQ Laboratory

Methyl- and dimethylnaphthalenes

2-Methylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	2,0	4,9	2,7	mg/kg dw	0,003	EP L272
1,2-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	0,41	0,83	1,1	mg/kg dw	0,003	EP L272
1,3-, 1,7- and 1,6-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	2,4	4,4	6,2	mg/kg dw	0,003	EP L272
1,4-, 1,5- and 2,3-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	1,1	2,0	2,5	mg/kg dw	0,003	EP L272
1,8-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	0,14	0,36	0,28	mg/kg dw	0,003	EP L272
2,6-Dimethylnaphthalene / 2,7-Dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	1,3	2,4	3,3	mg/kg dw	0,003	EP L272

SumPAH(14) Estonian regulation no 26

Sum PAH	EPC14	27	51	45	mg/kg dw		EP
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Analytical Report **AR-22-EP-027160-01**Date **11.07.2022****Laboratory**

EP	Eurofins Environment Testing Estonia (Tallinn)	(Not accredited)
EP L272	Eurofins Environment Testing Estonia (Tallinn)	EAK accredited testing laboratory L272 in accordance with the standard EVS-EN ISO/IEC 17025:2017 EAK L272

SIGNATURE

Eva Kristel Kail
Analytical Service Manager
EvaKristelKail@eurofins.com

This test report has been created electronically and has been verified and authorised.

Additional information

Sampling person: Artto Pello
Sampling location: Jüri, Kesk tee 36, Pahnimäe ABT pinnas

EXPLANATORY NOTE

1. This certificate may only be copied as whole.
2. Any publication of this report requires written permission. An excerpt publication is not allowed.
3. The results described apply only to the samples received.
4. All information regarding the sample (except those recorded on site or at sample registration by Eurofins) have been provided by the client. This information can have impact on the validity of the analytical results. Laboratory is not responsible for the accuracy of the information provided by the client.

< result is below LOQ
LOQ limit of quantification

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Analytical Report **AR-22-EP-030782-01**

Date **03.08.2022**

Sample(s) reception date **28.07.2022**

Our reference **EUAA55-00013051**

Client Code **EP0000006**

Technical contact for your orders **Eva Kristel Kail**

Maves OÜ

Artto Pello

Marja tn 4d

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Email: artto@maves.ee

Analysis was performed between sample reception date and Analytical Report date.

Sample code	337-2022-00031561	337-2022-00031562	337-2022-00031563
Client sample code	K-1	K-2	K-3
Client sample description	Soil	Soil	Soil
Sampling date and time	28.07.2022.00:00	28.07.2022.00:00	28.07.2022.00:00

Unit LOQ Laboratory

Physical-Chemical test

Dry matter	EPDRY	95	96	95	%	3	EP L272
RA9000 (ISO 11465:1993)							

Total hydrocarbons

Nonpolar TPH C10-C21	EPTPH	2100	1300	1400	mg/kg dw	20	EP L272
RA9002A (SFS-EN ISO 16703:2011; SFS-EN ISO 9377-2:2001)							
Nonpolar TPH C21-C40	EPTPH	690	330	530	mg/kg dw	20	EP L272
RA9002A (SFS-EN ISO 16703:2011; SFS-EN ISO 9377-2:2001)							
Nonpolar TPH C10-C40	EPTPH	2800	1700	1900	mg/kg dw	20	EP L272
RA9002A (SFS-EN ISO 16703:2011; SFS-EN ISO 9377-2:2001)							

PAH

Anthracene	EP05E	32	24	16	mg/kg dw	0,003	EP L272
RA9002B (EVS-EN 16181:2018; RA9002B (ISO 18287:2006)							
Acenaphthene	EP05R	55	40	24	mg/kg dw	0,003	EP L272
RA9002B (EVS-EN 16181:2018; RA9002B (ISO 18287:2006)							
Benzo(a)pyrene	EP05C	6,3	4,8	4,0	mg/kg dw	0,003	EP L272
RA9002B (EVS-EN 16181:2018; RA9002B (ISO 18287:2006)							
Phenanthrene	EP05F	180	130	72	mg/kg dw	0,003	EP L272
RA9002B (EVS-EN 16181:2018; RA9002B (ISO 18287:2006)							
Chrysene	EP05N	18	13	9,6	mg/kg dw	0,003	EP L272
RA9002B (EVS-EN 16181:2018; RA9002B (ISO 18287:2006)							

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Analytical Report **AR-22-EP-030782-01**

Date **03.08.2022**

Sample code	337-2022-00031561	337-2022-00031562	337-2022-00031563
Client sample code	K-1	K-2	K-3
Client sample description	Soil	Soil	Soil
Sampling date and time	28.07.2022.00:00	28.07.2022.00:00	28.07.2022.00:00

Unit LOQ Laboratory

PAH

Naphthalene RA9002B (ISO 18287:2006); RA9002B (ISO 18287:2006)	EP05P	26	5,7	4,3	mg/kg dw	0,003	EP L272
Pyrene RA9002B (ISO 18287:2006); RA9002B (ISO 18287:2006)	EP05H	39	29	21	mg/kg dw	0,003	EP L272

Methyl- and dimethylnaphthalenes

1-Methylnaphthalene RA9002B (ISO 18287:2006); RA9002B (ISO 18287:2006)	EPP02	220	190	51	mg/kg dw	0,003	EP L272
2-Methylnaphthalene RA9002B (ISO 18287:2006); RA9002B (ISO 18287:2006)	EPP02	150	110	24	mg/kg dw	0,003	EP L272
1,2-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (ISO 18287:2006)	EPP02	31	25	11	mg/kg dw	0,003	EP L272
1,3-, 1,7- and 1,6-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (ISO 18287:2006)	EPP02	160	120	61	mg/kg dw	0,003	EP L272
1,4-, 1,5- and 2,3-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (ISO 18287:2006)	EPP02	64	47	24	mg/kg dw	0,003	EP L272
1,8-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (ISO 18287:2006)	EPP02	7,1	5,0	2,4	mg/kg dw	0,003	EP L272
2,6-Dimethylnaphthalene / 2,7-Dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (ISO 18287:2006)	EPP02	83	64	27	mg/kg dw	0,003	EP L272

SumPAH(14) Estonian regulation no 26

Sum PAH	EPC14	1100	820	350	mg/kg dw		EP
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Sample code	337-2022-00031564	337-2022-00031565	337-2022-00031566
Client sample code	K-4	K-5	K-6
Client sample description	Soil	Soil	Soil
Sampling date and time	28.07.2022.00:00	28.07.2022.00:00	28.07.2022.00:00

Unit LOQ Laboratory

Sample code	337-2022-00031564	337-2022-00031565	337-2022-00031566
Client sample code	K-4	K-5	K-6
Client sample description	Soil	Soil	Soil
Sampling date and time	28.07.2022.00:00	28.07.2022.00:00	28.07.2022.00:00

Unit LOQ Laboratory

Physical-Chemical test

Dry matter RA9000 (ISO 11465:1993)	EPDRY	95	93	99	%	3	EP L272
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Total hydrocarbons

Nonpolar TPH C10-C21 RA9002A (SFS-EN ISO 16703:2011; SFS-EN ISO 9377-2:2001)	EPTPH	380	310	610	mg/kg dw	20	EP L272
Nonpolar TPH C21-C40 RA9002A (SFS-EN ISO 16703:2011; SFS-EN ISO 9377-2:2001)	EPTPH	290	250	300	mg/kg dw	20	EP L272
Nonpolar TPH C10-C40 RA9002A (SFS-EN ISO 16703:2011; SFS-EN ISO 9377-2:2001)	EPTPH	670	560	910	mg/kg dw	20	EP L272

PAH

Anthracene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05E	8,2	3,5	29	mg/kg dw	0,003	EP L272
Acenaphthene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05R	8,4	1,4	42	mg/kg dw	0,003	EP L272
Benzo(a)pyrene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05C	4,3	4,3	6,7	mg/kg dw	0,003	EP L272
Phenanthrene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05F	33	7,0	150	mg/kg dw	0,003	EP L272
Chrysene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05N	7,5	2,1	19	mg/kg dw	0,003	EP L272
Naphthalene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05P	1,0	0,64	4,5	mg/kg dw	0,003	EP L272
Pyrene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05H	21	9,8	41	mg/kg dw	0,003	EP L272

Methyl- and dimethylnaphthalenes

1-Methylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	5,5	1,8	85	mg/kg dw	0,003	EP L272
2-Methylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	1,9	0,91	37	mg/kg dw	0,003	EP L272

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Analytical Report **AR-22-EP-030782-01**

Date **03.08.2022**

Sample code	337-2022-00031564	337-2022-00031565	337-2022-00031566
Client sample code	K-4	K-5	K-6
Client sample description	Soil	Soil	Soil
Sampling date and time	28.07.2022.00:00	28.07.2022.00:00	28.07.2022.00:00

Unit LOQ Laboratory

Methyl- and dimethylnaphthalenes

1,2-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	2,0	0,51	19	mg/kg dw	0,003	EP L272
1,3-, 1,7- and 1,6-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	12	3,3	93	mg/kg dw	0,003	EP L272
1,4-, 1,5- and 2,3-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	5,6	1,3	38	mg/kg dw	0,003	EP L272
1,8-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	1,1	0,26	4,0	mg/kg dw	0,003	EP L272
2,6-Dimethylnaphthalene / 2,7-Dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	4,5	1,3	45	mg/kg dw	0,003	EP L272

SumPAH(14) Estonian regulation no 26

Sum PAH	EPC14	120	38	610	mg/kg dw		EP
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Sample code	337-2022-00031567	337-2022-00031568	337-2022-00031569
Client sample code	K-7	K-8	K-9
Client sample description	Soil	Soil	Soil
Sampling date and time	28.07.2022.00:00	28.07.2022.00:00	28.07.2022.00:00

Unit LOQ Laboratory

Physical-Chemical test

Dry matter RA9000 (ISO 11465:1993)	EPPDRY	93	91	90	%	3	EP L272
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Total hydrocarbons

Nonpolar TPH C10-C21 RA9002A (SFS-EN ISO 16703:2011; SFS-EN ISO 9377-2:2001)	EPTPH	660	520	830	mg/kg dw	20	EP L272
Nonpolar TPH C21-C40 RA9002A (SFS-EN ISO 16703:2011; SFS-EN ISO 9377-2:2001)	EPTPH	340	280	430	mg/kg dw	20	EP L272

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Analytical Report **AR-22-EP-030782-01**

Date **03.08.2022**

Sample code	337-2022-00031567	337-2022-00031568	337-2022-00031569
Client sample code	K-7	K-8	K-9
Client sample description	Soil	Soil	Soil
Sampling date and time	28.07.2022.00:00	28.07.2022.00:00	28.07.2022.00:00

Unit LOQ Laboratory

Total hydrocarbons

Nonpolar TPH C10-C40 RA9002A (SFS-EN ISO 16703:2011; SFS-EN ISO 9377-2:2001)	EPTPH	1000	790	1300	mg/kg dw	20	EP L272
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PAH

Anthracene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05E	19	9,5	7,4	mg/kg dw	0,003	EP L272
Acenaphthene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05R	25	18	14	mg/kg dw	0,003	EP L272
Benzo(a)pyrene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05C	5,1	4,9	3,6	mg/kg dw	0,003	EP L272
Phenanthrene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05F	81	33	30	mg/kg dw	0,003	EP L272
Chrysene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05N	13	9,1	5,9	mg/kg dw	0,003	EP L272
Naphthalene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05P	3,9	3,2	3,0	mg/kg dw	0,003	EP L272
Pyrene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05H	30	25	17	mg/kg dw	0,003	EP L272

Methyl- and dimethylnaphthalenes

1-Methylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	28	19	31	mg/kg dw	0,003	EP L272
2-Methylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	15	7,6	15	mg/kg dw	0,003	EP L272
1,2-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	8,4	4,5	5,3	mg/kg dw	0,003	EP L272
1,3-, 1,7- and 1,6-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	67	32	30	mg/kg dw	0,003	EP L272
1,4-, 1,5- and 2,3-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	28	13	11	mg/kg dw	0,003	EP L272
1,8-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	3,3	2,0	1,4	mg/kg dw	0,003	EP L272

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Analytical Report **AR-22-EP-030782-01**

Date **03.08.2022**

Sample code	337-2022-00031567	337-2022-00031568	337-2022-00031569
Client sample code	K-7	K-8	K-9
Client sample description	Soil	Soil	Soil
Sampling date and time	28.07.2022.00:00	28.07.2022.00:00	28.07.2022.00:00

Unit LOQ Laboratory

Methyl- and dimethylnaphthalenes

2,6-Dimethylnaphthalene / 2,7-Dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	28	12	13	mg/kg dw	0,003	EP L272
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SumPAH(14) Estonian regulation no 26

Sum PAH	EPC14	360	190	190	mg/kg dw		EP
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Sample code	337-2022-00031570	337-2022-00031571	337-2022-00031572
Client sample code	K-10	K-11	K-12
Client sample description	Soil	Soil	Soil
Sampling date and time	28.07.2022.00:00	28.07.2022.00:00	28.07.2022.00:00

Unit LOQ Laboratory

Physical-Chemical test

Dry matter RA9000 (ISO 11465:1993)	EPDRY	86	91	90	%	3	EP L272
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Total hydrocarbons

Nonpolar TPH C10-C21 RA9002A (SFS-EN ISO 16703:2011; SFS-EN ISO 9377-2:2001)	EPTPH	200	630	490	mg/kg dw	20	EP L272
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Nonpolar TPH C21-C40 RA9002A (SFS-EN ISO 16703:2011; SFS-EN ISO 9377-2:2001)	EPTPH	330	890	1000	mg/kg dw	20	EP L272
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Nonpolar TPH C10-C40 RA9002A (SFS-EN ISO 16703:2011; SFS-EN ISO 9377-2:2001)	EPTPH	530	1500	1500	mg/kg dw	20	EP L272
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PAH

Anthracene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05E	5,5	3,6	2,7	mg/kg dw	0,003	EP L272
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Acenaphthene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05R	1,8	2,6	0,98	mg/kg dw	0,003	EP L272
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Benzo(a)pyrene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05C	4,0	3,8	2,9	mg/kg dw	0,003	EP L272
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Sample code	337-2022-00031570	337-2022-00031571	337-2022-00031572
Client sample code	K-10	K-11	K-12
Client sample description	Soil	Soil	Soil
Sampling date and time	28.07.2022.00:00	28.07.2022.00:00	28.07.2022.00:00

Unit LOQ Laboratory

PAH

Phenanthrene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05F	13	8,0	3,7	mg/kg dw	0,003	EP L272
Chrysene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05N	5,4	2,2	1,2	mg/kg dw	0,003	EP L272
Naphthalene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05P	0,91	2,0	0,54	mg/kg dw	0,003	EP L272
Pyrene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05H	12	9,3	4,7	mg/kg dw	0,003	EP L272

Methyl- and dimethylnaphthalenes

1-Methylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	1,7	4,9	1,8	mg/kg dw	0,003	EP L272
2-Methylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	1,5	1,8	0,61	mg/kg dw	0,003	EP L272
1,2-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	0,49	0,97	0,38	mg/kg dw	0,003	EP L272
1,3-, 1,7- and 1,6-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	3,5	5,7	2,4	mg/kg dw	0,003	EP L272
1,4-, 1,5- and 2,3-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	1,6	2,2	0,92	mg/kg dw	0,003	EP L272
1,8-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	0,24	0,26	<0,003	mg/kg dw	0,003	EP L272
2,6-Dimethylnaphthalene / 2,7-Dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	1,1	2,3	0,93	mg/kg dw	0,003	EP L272

SumPAH(14) Estonian regulation no 26

Sum PAH	EPC14	53	50	24	mg/kg dw		EP
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Sample code	337-2022-00031573	337-2022-00031574	337-2022-00031575
Client sample code	T-1	T-2	T-3

Sample code	337-2022-00031573	337-2022-00031574	337-2022-00031575
Client sample code	T-1	T-2	T-3
Client sample description	Soil	Soil	Soil
Sampling date and time	28.07.2022.00:00	28.07.2022.00:00	28.07.2022.00:00

Unit LOQ Laboratory

Physical-Chemical test

Dry matter RA9000 (ISO 11465:1993)	EPDRY	94	93	94	%	3	EP L272
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Total hydrocarbons

Nonpolar TPH C10-C21 RA9002A (SFS-EN ISO 16703:2011; SFS-EN ISO 9377-2:2001)	EPTPH	1400	2000	1500	mg/kg dw	20	EP L272
Nonpolar TPH C21-C40 RA9002A (SFS-EN ISO 16703:2011; SFS-EN ISO 9377-2:2001)	EPTPH	450	710	500	mg/kg dw	20	EP L272
Nonpolar TPH C10-C40 RA9002A (SFS-EN ISO 16703:2011; SFS-EN ISO 9377-2:2001)	EPTPH	1800	2700	2000	mg/kg dw	20	EP L272

PAH

Anthracene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05E	29	32	32	mg/kg dw	0,003	EP L272
Acenaphthene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05R	49	57	54	mg/kg dw	0,003	EP L272
Benzo(a)pyrene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05C	5,8	5,9	6,1	mg/kg dw	0,003	EP L272
Phenanthrene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05F	150	170	170	mg/kg dw	0,003	EP L272
Chrysene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05N	16	17	17	mg/kg dw	0,003	EP L272
Naphthalene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05P	16	17	35	mg/kg dw	0,003	EP L272
Pyrene RA9002B (EVS-EN 16181:2018); RA9002B (ISO 18287:2006)	EP05H	35	36	39	mg/kg dw	0,003	EP L272

Methyl- and dimethylnaphthalenes

1-Methylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	160	200	200	mg/kg dw	0,003	EP L272
2-Methylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	98	99	150	mg/kg dw	0,003	EP L272

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Analytical Report **AR-22-EP-030782-01**

Date **03.08.2022**

Sample code	337-2022-00031573	337-2022-00031574	337-2022-00031575
Client sample code	T-1	T-2	T-3
Client sample description	Soil	Soil	Soil
Sampling date and time	28.07.2022.00:00	28.07.2022.00:00	28.07.2022.00:00

Unit LOQ Laboratory

Methyl- and dimethylnaphthalenes

1,2-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	23	29	29	mg/kg dw	0,003	EP L272
1,3-, 1,7- and 1,6-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	130	160	150	mg/kg dw	0,003	EP L272
1,4-, 1,5- and 2,3-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	49	60	58	mg/kg dw	0,003	EP L272
1,8-dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	4,6	6,1	5,8	mg/kg dw	0,003	EP L272
2,6-Dimethylnaphthalene / 2,7-Dimethylnaphthalene RA9002B (ISO 18287:2006); RA9002B (EVS-EN 16181:2018)	EPP02	66	84	78	mg/kg dw	0,003	EP L272

SumPAH(14) Estonian regulation no 26

Sum PAH	EPC14	830	970	1000	mg/kg dw		EP
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Analytical Report **AR-22-EP-030782-01**Date **03.08.2022****Laboratory**

EP	Eurofins Environment Testing Estonia (Tallinn)	(Not accredited)
EP L272	Eurofins Environment Testing Estonia (Tallinn)	EAK accredited testing laboratory L272 in accordance with the standard EVS-EN ISO/IEC 17025:2017 EAK L272

SIGNATURE

Eva Kristel Kail
Analytical Service Manager
EvaKristelKail@eurofins.com

This test report has been created electronically and has been verified and authorised.

Additional information

Sampling person: Artto Pello
Sampling location: Kesk tee 36, Jüri

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< result is below LOQ
LOQ limit of quantification