Milford Haven Terminal - DP3195LV
Land Farm 7 - Soil

Parameter	Date																			Result_Units
Sampled Date	14/07/2016	22/09/2016	30/11/2016	02/03/2017	22/05/2017	25/09/2017	01/11/2017	27/03/2018	13/06/2018	02/08/2018	26/11/2018	22/03/2019	27/06/2019	24/09/2019	24/12/2019	08/04/2020	25/06/2020	24/09/2020	10/12/2020	
pH	7.51	6.69	7.21	6.88	6.37	6.65	7.04	7.19	7.01	6.51	6.56	6.51	7.07	7.12	7.12	7.12	7.55	7.66	7.21	pH Units
TOC																				%
EPH Range >C10 - C40																				mg/kg
EPH Band >C10-C12																				mg/kg
EPH Band >C12-C16																				mg/kg
EPH Band >C16-C21																				mg/kg
EPH Band >C21-C28																				mg/kg
EPH Band >C28-C35																				mg/kg
EPH Band >C35-C40																				mg/kg
Benzene																				µg/kg
Benzene																				µg/kg
Ethylbenzene																				µg/kg
Ethylbenzene																				µg/kg
m,p-Xylene																				µg/kg
o-Xylene																				µg/kg
o-Xylene																				µg/kg
Sum of detected mpo xylene by GC	<9	<9	<9	<9	<9	<9	<9	<9												µg/kg
Sum of detected BTEX by GC	<24	<24	<24	<24	<24	<24	106	<24												µg/kg
Toluene																				µg/kg
Zinc																				mg/kg
Copper																				mg/kg
Nickel	418	439	418	392	500	1520	436	507	482	556	907	579	452	941	231	223	217	161	210	mg/kg
Lead	33.4	32.6	37.2	36.2	31.8	31.7	30.6	30.8	33.7	28.7	57	30.7	30.1	29	21.2	29.3	24.2	23.1	10.6	mg/kg
Cadmium																				mg/kg
Mercury	0.467	<0.14	1.03	<1.4	2.46	2.51	2.32	0.224	<0.14	<0.14	0.449	1.14	0.829	<0.14	<0.14	<0.14	<0.14	<0.14	0.253	mg/kg
Vanadium	78.6	81.3	79.4	78.9	79.5	77	80.2	82	80.1	79.1	70.2	73.8	80.4	82.8	67.8	53.4	79.5	63.1	67.8	mg/kg
Molybdenum	8.81	7.08	20.2	4.92	6.76	7.16	8.12	6.19	5.14	18.7	6.02	5.95	7.09	6.11	4.69	6.35	3.7	2.28	4.29	mg/kg
Arsenic	12.1	15.4	19	11.8	12	13.5	12.3	15.2	15.1	16.5	13.4	16.3	18.6	20.4	12.3	9.69	10.7	15.1	13.6	mg/kg
Aliphatics >C12-C16																				µg/kg
Aliphatics >C16-C21																				µg/kg
Aliphatics >C21-C35																				µg/kg
Aliphatics >C35-C44																				µg/kg
Aromatics >EC12-EC16																				µg/kg
Aromatics >EC16-EC21																				µg/kg
Toluene																				µg/kg
Total Aliphatics >C12-C44																				µg/kg
Aliphatics >C10-C12																				µg/kg
Aliphatics >C6-C8																				µg/kg
Aliphatics >C8-C10																				µg/kg
Aliphatics >C5-C6																47.3				µg/kg
Aromatics >EC7-EC8																				µg/kg
Aromatics >EC10-EC12																				µg/kg
Aromatics >EC16-EC35																				µg/kg
Aromatics >EC21-EC35																				µg/kg
Aromatics >EC35-EC44																				µg/kg
Aromatics >EC40-EC44																				µg/kg
Aromatics >EC8-EC10																				µg/kg
Aromatics >EC5-EC7																				µg/kg
Total Aliphatics & Aromatics >C5-C44	1.70E+07	1.81E+07	2.70E+07	1.26E+07	2.04E+07	2.14E+07	1.44E+07	1.85E+07	1.77E+07	2.44E+07	2.29E+07	2.61E+07	1.89E+07	2.52E+07	5.99E+06	4.54E+06	4.21E+06	6.32E+06	2.81E+06	µg/kg
Total Aromatics >EC12-EC44																				µg/kg
Methyl tertiary butyl ether (MTBE)	<5	<5	<5	<5	<5	<5	<5	<5												µg/kg
p/m-Xylene																				µg/kg
Methyl Tertiary Butyl Ether									<2000	<200	<10	<200	<200	<200	<200	<200	<200	<200	<200	µg/kg
Sum of BTEX									<8000	<800	244	<800	<800	<800	<800	<800	<800	<800	<800	µg/kg
Sum of Detected Xylenes									<4	<0.4	0.126	0.599	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	mg/kg
Colour	Dark brown	Dark brown	Dark brown	Dark brown	Dark brown	Dark brown	Dark brown	Dark brown	Dark brown	Dark brown	Dark brown	Dark brown	Dark brown	Dark brown	Dark brown	Dark brown	Light Brown	Dark Brown	Dark Brown	-
Description	Loamy sand	Loamy sand	Loamy sand	Sandy clay loam	Sandy clay loam	Sandy clay loam	Sandy loam	Sandy loam	Loamy sand	Sandy loam	Sandy loam	Sandy loam	Sandy loam	Sandy loam	Sandy loam	Sandy loam	Loamy Sand	Sandy Loam	Sandy Loam	-
Grain Size	0.063 - 0.2 mm	0.063 - 2.0 mm	0.063 - 2.0 mm	0.063 - 2.0 mm																-
Inclusion (1)	Crushed brick	Stones	Brick	Stones	Stones	None	Vegetation	Stones	Stones	Stones	Vegetation	Vegetation	Stones	Stones	Stones	Vegetation	Stones	Stones	Stones	-
Inclusion (2)	Stones	None	Stones	None	None	None	Stones	Bricks	Vegetation	Vegetation	Stones	Stones	Oil/ Petroleum	Oil/ Petroleum	Vegetation	NONE	Vegetation	Vegetation	Vegetation	-
GRO TOT (Moisture Corrected)	4110	11300	5860	3570	14900	4160	16200	16700	3420	5340	17400	44800	16800	6370	20	193	20	20	<20	µg/kg
Moisture Content Ratio (% of as received sample)	16	20	17	20	17	20	20	21	19	20	18	20	20	22	14	28	4	12	24	%
GRO Surrogate % recovery**	22	20	11	15	25	12	29	17	13	38	65	78.8	32.9	29	43	87.1	35.7	79.5	44.8	%
Toluene-d8**																				%
Mineral oil >C10-C40																				mg/kg
Mineral Oil Surrogate % recovery**																				%