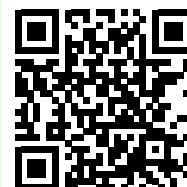


Waste Classification Report

HazWasteOnline™ classifies waste as either **hazardous** or **non-hazardous** based on its chemical composition, related legislation and the rules and data defined in the current UK or EU technical guidance (Appendix C) (note that HP 9 Infectious is not assessed). It is the responsibility of the classifier named below to:

- understand the origin of the waste
- select the correct List of Waste code(s)
- confirm that the list of determinands, results and sampling plan are fit for purpose
- select and justify the chosen metal species (Appendix B)
- correctly apply moisture correction and other available corrections
- add the meta data for their user-defined substances (Appendix A)
- check that the classification engine is suitable with respect to the national destination of the waste (Appendix C)



GHCNE-QCEYX-9PVHR

To aid the reviewer, the laboratory results, assumptions and justifications managed by the classifier are highlighted in pale yellow.

Job name

GWPR5385 2 - 6 Seagull Lane, Emsworth PO10 7QH

Description/Comments

Project

GWPR5385 2 - 6 Seagull Lane, Emsworth PO10 7QH

Site

2 - 6 Seagull Lane, Emsworth PO10 7QH

Classified by

Name: Adam Young
Date: 09 Jun 2023 08:57 GMT
Telephone: Company: Ground and Water
2 The long Barn, Norton Farm, Selbourne
Road, Alton
GU34 3NB

HazWasteOnline™ provides a two day, hazardous waste classification course that covers the use of the software and both basic and advanced waste classification techniques. Certification has to be renewed every 3 years.

HazWasteOnline™ Certification:

-

Course

Hazardous Waste Classification

Date

-

Purpose of classification

2 - Material Characterisation

Address of the waste

2 - 6 Seagull Lane, Emsworth

Post Code PO10 7QH

SIC for the process giving rise to the waste

Description of industry/producer giving rise to the waste

Redevelopment of industrial buildings.

Description of the specific process, sub-process and/or activity that created the waste

Waste created during excavation of soils.

Description of the waste

Made Ground.

Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
1	WS1-120523-0.20-0.20		Non Hazardous		3
2	WS2-120523-0.80-0.80		Non Hazardous		9
3	WS3-120523-0.20-0.20		Non Hazardous		11
4	WS4-120523-0.50-0.50		Non Hazardous		13
5	WS5-120523-0.20-0.20		Non Hazardous		15

Related documents

#	Name	Description
1	230519-69.hwol	ALS Hawarden .hwol file used to populate the Job

Report

Created by: Adam Young

Created date: 09 Jun 2023 08:57 GMT

Appendices	Page
Appendix A: Classifier defined and non GB MCL determinands	21
Appendix B: Rationale for selection of metal species	25
Appendix C: Version	26

Classification of sample: WS1-120523-0.20-0.20

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:
WS1-120523-0.20-0.20	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
20% (wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 20% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	161	mg/kg		128.8	mg/kg	0.0129 %	✓	
	082-001-00-6											
2	polychlorobiphenyls; PCB				<0.021	mg/kg		<0.021	mg/kg	<0.0000021 %		<LOD
	602-039-00-4	215-648-1	1336-36-3									
3	1,1,1-trichloroethane; methyl chloroform				<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
	602-013-00-2	200-756-3	71-55-6									
4	toluene				<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
	601-021-00-3	203-625-9	108-88-3									
5	1,2-dichloroethane; ethylene dichloride				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	602-012-00-7	203-458-1	107-06-2									
6	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		<LOD
	034-002-00-8											
7	boron { boron tribromide }				4.26	mg/kg	23.173	78.973	mg/kg	0.0079 %	✓	
	005-003-00-0	233-657-9	10294-33-4									
8	tetrachloroethylene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	602-028-00-4	204-825-9	127-18-4									
9	1,2-dichloropropane; propylene dichloride				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	602-020-00-0	201-152-2	78-87-5									
10	2,4-dinitrotoluene; [1] dinitrotoluene [2]				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	609-007-00-9	204-450-0 [1] 246-836-1 [2]	121-14-2 [1] 25321-14-6 [2]									
11	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
12	chloroform; trichloromethane				<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
	602-006-00-4	200-663-8	67-66-3									
13	vanadium { divanadium pentaoxide; vanadium pentoxide }				45.8	mg/kg	1.785	65.409	mg/kg	0.00654 %	✓	
	023-001-00-8	215-239-8	1314-62-1									
14	4-chlorophenylphenylether				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		230-281-7	7005-72-3									
15	benzo[a]anthracene				1.3	mg/kg		1.04	mg/kg	0.000104 %	✓	
	601-033-00-9	200-280-6	56-55-3									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
16	1,2,4-trichlorobenzene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	602-087-00-6	204-428-0	120-82-1								
17	3,5,5-trimethylcyclohex-2-enone; isophorone				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %			<LOD
	606-012-00-8	201-126-0	78-59-1								
18	4-bromophenylphenylether				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %			<LOD
		202-952-4	101-55-3								
19	bromoform; tribromomethane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	602-007-00-X	200-854-6	75-25-2								
20	nitrosodipropylamine				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %			<LOD
	612-098-00-8	210-698-0	621-64-7								
21	2-chloronaphthalene				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %			<LOD
		202-079-9	91-58-7								
22	trans-1,3-dichloropropene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		431-460-4	10061-02-6								
23	dimethyl phthalate				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %			<LOD
		205-011-6	131-11-3								
24	2,2-dichloropropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		209-832-0	594-20-7								
25	pentachlorophenol				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %			<LOD
	604-002-00-8	201-778-6	87-86-5								
26	hexachloroethane				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %			<LOD
		200-666-4	67-72-1								
27	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.6 mg/kg	1.923	<1.154 mg/kg	<0.000115 %			<LOD
	024-001-00-0	215-607-8	1333-82-0								
28	azobenzene				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %			<LOD
	611-001-00-6	203-102-5	103-33-3								
29	carbon tetrachloride; tetrachloromethane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	602-008-00-5	200-262-8	56-23-5								
30	bromodichloromethane				<0.007 mg/kg		<0.007 mg/kg	<0.0000007 %			<LOD
		200-856-7	75-27-4								
31	TPH (C6 to C40) petroleum group				432 mg/kg		345.6 mg/kg	0.0346 %		✓	
			TPH								
32	dibenzofuran				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %			<LOD
		205-071-3	132-64-9								
33	2,4,6-trichlorophenol				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %			<LOD
	604-018-00-5	201-795-9	88-06-2								
34	2-methoxy-2-methylbutane; tert-amyl methyl ether				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	603-213-00-2	213-611-4	994-05-8								
35	phenanthrene				1.55 mg/kg		1.24 mg/kg	0.000124 %		✓	
		201-581-5	85-01-8								
36	1,1,2-trichloroethane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	602-014-00-8	201-166-9	79-00-5								
37	chloromethane; methyl chloride				<0.007 mg/kg		<0.007 mg/kg	<0.0000007 %			<LOD
	602-001-00-7	200-817-4	74-87-3								
38	pyrene				2.18 mg/kg		1.744 mg/kg	0.000174 %		✓	
		204-927-3	129-00-0								
39	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }				180 mg/kg	4.398	633.301 mg/kg	0.0633 %		✓	
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]								
40	benzo[k]fluoranthene				0.798 mg/kg		0.638 mg/kg	0.0000638 %		✓	
	601-036-00-5	205-916-6	207-08-9								
41	1,2,3-trichloropropane				<0.016 mg/kg		<0.016 mg/kg	<0.0000016 %			<LOD
	602-062-00-X	202-486-1	96-18-4								
42	bis(2-chloroethoxy)methane				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %			<LOD
		203-920-2	111-91-1								
43	arsenic { arsenic trioxide }				10.9 mg/kg	1.32	11.513 mg/kg	0.00115 %		✓	
	033-003-00-0	215-481-4	1327-53-3								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
44	dibenz[a,h]anthracene				0.155 mg/kg		0.124 mg/kg	0.0000124 %	✓	
	601-041-00-2	200-181-8	53-70-3							
45	bromobenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-060-00-9	203-623-8	108-86-1							
46	1,4-dichlorobenzene; p-dichlorobenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-035-00-2	203-400-5	106-46-7							
47	1,2-dibromo-3-chloropropane				<0.014 mg/kg		<0.014 mg/kg	<0.0000014 %		<LOD
	602-021-00-6	202-479-3	96-12-8							
48	benzo[ghi]perylene				0.752 mg/kg		0.602 mg/kg	0.0000602 %	✓	
		205-883-8	191-24-2							
49	hexachlorobutadiene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
		201-765-5	87-68-3							
50	mercury { mercury dichloride }				<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
51	hexachlorobenzene				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	602-065-00-6	204-273-9	118-74-1							
52	4-isopropyltoluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		202-796-7	99-87-6							
53	1,1-dichloroethylene; vinylidene chloride				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-025-00-8	200-864-0	75-35-4							
54	trichlorofluoromethane				<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %		<LOD
		200-892-3	75-69-4							
55	dichloromethane; methylene chloride				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-004-00-3	200-838-9	75-09-2							
56	1,2-dibromoethane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-010-00-6	203-444-5	106-93-4							
57	3,4-xyleneol; [1] 2,5-xyleneol; [2] 2,4-xyleneol; [3] 2,3-xyleneol; [4] 2,6-xyleneol; [5] xyleneol; [6] 2,4(or 2,5)-xyleneol [7]				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]							
58	1,2,3-trichlorobenzene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
		201-757-1	87-61-6							
59	carbazole				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
		201-696-0	86-74-8							
60	trichloroethylene; trichloroethene				<0.009 mg/kg		<0.009 mg/kg	<0.0000009 %		<LOD
	602-027-00-9	201-167-4	79-01-6							
61	ethylbenzene				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
62	bis(2-chloroethyl) ether				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	603-029-00-2	203-870-1	111-44-4							
63	anthracene				0.249 mg/kg		0.199 mg/kg	0.0000199 %	✓	
		204-371-1	120-12-7							
64	chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	604-014-00-3	200-431-6	59-50-7							
65	4-chloroaniline				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	612-137-00-9	203-401-0	106-47-8							
66	vinyl chloride; chloroethylene				<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %		<LOD
	602-023-00-7	200-831-0	75-01-4							
67	fluoranthene				2.59 mg/kg		2.072 mg/kg	0.000207 %	✓	
		205-912-4	206-44-0							
68	fluorene				0.308 mg/kg		0.246 mg/kg	0.0000246 %	✓	
		201-695-5	86-73-7							
69	chloroethane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-009-00-0	200-830-5	75-00-3							

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
70		2-methyl naphthalene				0.35	mg/kg		0.28	mg/kg	0.000028 %	✓	
			202-078-3	91-57-6									
71		2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4]				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		604-008-00-0	202-433-2 [1] 203-402-6 [2] 203-582-6 [3] 246-691-4 [4]	95-57-8 [1] 106-48-9 [2] 108-43-0 [3] 25167-80-0 [4]									
72		bromomethane; methylbromide				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-002-00-2	200-813-2	74-83-9									
73		BBP; benzyl butyl phthalate				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		607-430-00-3	201-622-7	85-68-7									
74		1,2,4-trimethylbenzene				0.0177	mg/kg		0.0142	mg/kg	0.00000142 %	✓	
		601-043-00-3	202-436-9	95-63-6									
75		chrysene				1.48	mg/kg		1.184	mg/kg	0.000118 %	✓	
		601-048-00-0	205-923-4	218-01-9									
76		1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]									
77		cyanides {  salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
78		benzene				<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
79		4-nitrophenol; p-nitrophenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		609-015-00-2	202-811-7	100-02-7									
80		1,1,2,2-tetrachloroethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-015-00-3	201-197-8	79-34-5									
81		bis(2-ethylhexyl) phthalate; di-(2-ethylhexyl) phthalate; DEHP				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		607-317-00-9	204-211-0	117-81-7									
82		n-butylbenzene				<0.011	mg/kg		<0.011	mg/kg	<0.0000011 %		<LOD
			203-209-7	104-51-8									
83		di-n-octyl phthalate				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			204-214-7	117-84-0									
84		tert-butylbenzene				<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
			202-632-4	98-06-6									
85		benzo[a]pyrene; benzo[def]chrysene				1.25	mg/kg		1	mg/kg	0.0001 %	✓	
		601-032-00-3	200-028-5	50-32-8									
86		nickel {  nickel dihydroxide }				24.1	mg/kg	1.579	30.453	mg/kg	0.00305 %	✓	
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
87		2,6-dinitrotoluene				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		609-049-00-8	210-106-0	606-20-2									
88		2,4,5-trichlorophenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		604-017-00-X	202-467-8	95-95-4									
89		styrene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-026-00-0	202-851-5	100-42-5									
90		dichlorodifluoromethane				<0.006	mg/kg		<0.006	mg/kg	<0.0000006 %		<LOD
			200-893-9	75-71-8									
91		dibromomethane				<0.009	mg/kg		<0.009	mg/kg	<0.0000009 %		<LOD
		602-003-00-8	200-824-2	74-95-3									
92		diethyl phthalate				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			201-550-6	84-66-2									
93		1,1-dichloropropene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-031-00-0	209-253-3	563-58-6									
94		pH				8.8	pH		8.8	pH	8.8 pH		
				PH									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
95	1,1,1,2-tetrachloroethane	211-135-1	630-20-6		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
96	2,4-dichlorophenol	604-011-00-7	204-429-6		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
97	carbon disulphide	006-003-00-3	200-843-6		<0.007 mg/kg		<0.007 mg/kg	<0.0000007 %		<LOD
98	naphthalene	601-052-00-2	202-049-5		0.112 mg/kg		0.0896 mg/kg	0.00000896 %	✓	
99	nitrobenzene	609-003-00-7	202-716-0		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
100	1,1-dichloroethane	602-011-00-1	200-863-5		<0.008 mg/kg		<0.008 mg/kg	<0.0000008 %		<LOD
101	bromochloromethane		200-826-3		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
102	1,3-dichloropropane		205-531-3		<0.007 mg/kg		<0.007 mg/kg	<0.0000007 %		<LOD
103	acenaphthene	201-469-6	83-32-9		0.102 mg/kg		0.0816 mg/kg	0.00000816 %	✓	
104	hexachlorocyclopentadiene	602-078-00-7	201-029-3		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
105	chlorobenzene	602-033-00-1	203-628-5		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
106	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7		31.6 mg/kg	1.126	28.462 mg/kg	0.00285 %	✓	
107	1,3-dichlorobenzene	602-067-00-7	208-792-1		<0.008 mg/kg		<0.008 mg/kg	<0.0000008 %		<LOD
108	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1	0.59 mg/kg	1.285	0.607 mg/kg	0.0000472 %	✓	
109	acenaphthylene		205-917-1		0.151 mg/kg		0.121 mg/kg	0.0000121 %	✓	
110	dibromochloromethane		204-704-0		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
111	mesitylene; 1,3,5-trimethylbenzene	601-025-00-5	203-604-4		<0.008 mg/kg		<0.008 mg/kg	<0.0000008 %		<LOD
112	indeno[123-cd]pyrene		205-893-2		0.754 mg/kg		0.603 mg/kg	0.0000603 %	✓	
113	sec-butylbenzene		205-227-0		0.0159 mg/kg		0.0127 mg/kg	0.00000127 %	✓	
114	benzo[b]fluoranthene	601-034-00-4	205-911-9		1.67 mg/kg		1.336 mg/kg	0.000134 %	✓	
115	dibutyl phthalate; DBP	607-318-00-4	201-557-4		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
116	coronene		205-881-7		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
117	phenol	604-001-00-2	203-632-7		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
118	1,2-dichlorobenzene; o-dichlorobenzene	602-034-00-7	202-425-9		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
119	2-nitrophenol		201-857-5		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
120	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
121	2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]	602-040-00-X	202-424-3 [1] 203-580-5 [2] 203-397-0 [3] 246-698-2 [4]		<0.019 mg/kg		<0.019 mg/kg	<0.0000019 %		<LOD

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used					
		EU CLP index number	EC Number	CAS Number												
122		1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]			<0.016 mg/kg		<0.016 mg/kg	<0.0000016 %		<LOD						
	602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]													
123		o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]									<0.6 mg/kg		<0.6 mg/kg	<0.00006 %		<LOD
	612-012-00-9	201-855-4 [1] 202-729-1 [2] 202-810-1 [3]	88-74-4 [1] 99-09-2 [2] 100-01-6 [3]													
124		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]			<0.4 mg/kg		<0.4 mg/kg	<0.00004 %		<LOD						
	604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]													
125		cumene; [1] propylbenzene [2]									0.0079 mg/kg		0.0063 mg/kg	0.000000635 %	✓	
	601-024-00-X	202-704-5 [1] 203-132-9 [2]	98-82-8 [1] 103-65-1 [2]													
126		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }			22.6 mg/kg	1.462	26.425 mg/kg	0.00264 %	✓							
		215-160-9	1308-38-9													
Total:								0.137 %								

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
•	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because Most likely worst case scenario

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinands:

TPH (C6 to C40) petroleum group: (conc.: 0.0346%)

1,2,4-trimethylbenzene: (conc.: 1.42e-06%)

sec-butylbenzene: (conc.: 1.27e-06%)

cumene; [1] propylbenzene [2]: (conc.: 6.35e-07%)

Classification of sample: WS2-120523-0.80-0.80

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:
WS2-120523-0.80-0.80	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
9.7% (wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 9.7% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	29.2	mg/kg		26.368	mg/kg	0.00264 %	✓	
	082-001-00-6											
2	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		<LOD
	034-002-00-8											
3	boron { boron tribromide }				6.68	mg/kg	23.173	139.78	mg/kg	0.014 %	✓	
	005-003-00-0	233-657-9	10294-33-4									
4	vanadium { divanadium pentaoxide; vanadium pentoxide }				53.9	mg/kg	1.785	86.888	mg/kg	0.00869 %	✓	
	023-001-00-8	215-239-8	1314-62-1									
5	benzo[a]anthracene				<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
	601-033-00-9	200-280-6	56-55-3									
6	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
	024-001-00-0	215-607-8	1333-82-0									
7	phenanthrene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
		201-581-5	85-01-8									
8	pyrene				<0.015	mg/kg		<0.015	mg/kg	<0.0000015 %		<LOD
		204-927-3	129-00-0									
9	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }				93.5	mg/kg	4.398	371.319	mg/kg	0.0371 %	✓	
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
10	benzo[k]fluoranthene				<0.014	mg/kg		<0.014	mg/kg	<0.0000014 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
11	arsenic { arsenic trioxide }				7.37	mg/kg	1.32	8.787	mg/kg	0.000879 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
12	dibenz[a,h]anthracene				<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
13	benzo[ghi]perylene				<0.024	mg/kg		<0.024	mg/kg	<0.0000024 %		<LOD
		205-883-8	191-24-2									
14	mercury { mercury dichloride }				<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
15	anthracene	204-371-1	120-12-7		<0.016 mg/kg		<0.016 mg/kg	<0.0000016 %		<LOD
16	fluoranthene	205-912-4	206-44-0		<0.017 mg/kg		<0.017 mg/kg	<0.0000017 %		<LOD
17	fluorene	201-695-5	86-73-7		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
18	chrysene	601-048-00-0	205-923-4	218-01-9	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
	006-007-00-5									
20	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	<0.015 mg/kg		<0.015 mg/kg	<0.0000015 %		<LOD
21	nickel { nickel dihydroxide }				40.7 mg/kg	1.579	58.05 mg/kg	0.0058 %	✓	
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]							
22	pH		PH		9.14 pH		9.14 pH	9.14 pH		
23	naphthalene	601-052-00-2	202-049-5	91-20-3	<0.009 mg/kg		<0.009 mg/kg	<0.0000009 %		<LOD
24	acenaphthene	201-469-6	83-32-9		<0.008 mg/kg		<0.008 mg/kg	<0.0000008 %		<LOD
25	copper { dicopper oxide; copper (I) oxide }				23.4 mg/kg	1.126	23.79 mg/kg	0.00238 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
26	cadmium { cadmium sulfide }			1	0.562 mg/kg	1.285	0.652 mg/kg	0.0000507 %	✓	
	048-010-00-4	215-147-8	1306-23-6							
27	acenaphthylene	205-917-1	208-96-8		<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
28	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.018 mg/kg		<0.018 mg/kg	<0.0000018 %		<LOD
29	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	<0.015 mg/kg		<0.015 mg/kg	<0.0000015 %		<LOD
30	phenol	604-001-00-2	203-632-7	108-95-2	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
31	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				37 mg/kg	1.462	48.832 mg/kg	0.00488 %	✓	
	215-160-9	1308-38-9								
Total:								0.0769 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
<LOD	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS3-120523-0.20-0.20

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:
WS3-120523-0.20-0.20	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
5.6% (wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 5.6% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	358	mg/kg		337.952	mg/kg	0.0338 %	✓	
	082-001-00-6											
2	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		<LOD
	034-002-00-8											
3	boron { boron tribromide }				1.31	mg/kg	23.173	28.657	mg/kg	0.00287 %	✓	
	005-003-00-0	233-657-9	10294-33-4									
4	vanadium { divanadium pentaoxide; vanadium pentoxide }				19.4	mg/kg	1.785	32.693	mg/kg	0.00327 %	✓	
	023-001-00-8	215-239-8	1314-62-1									
5	benzo[a]anthracene				0.0683	mg/kg		0.0645	mg/kg	0.00000645 %	✓	
	601-033-00-9	200-280-6	56-55-3									
6	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
	024-001-00-0	215-607-8	1333-82-0									
7	phenanthrene				0.0926	mg/kg		0.0874	mg/kg	0.00000874 %	✓	
		201-581-5	85-01-8									
8	pyrene				0.0829	mg/kg		0.0783	mg/kg	0.00000783 %	✓	
		204-927-3	129-00-0									
9	zinc { zinc sulphate (hydrated) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }				132	mg/kg	4.398	548.017	mg/kg	0.0548 %	✓	
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
10	benzo[k]fluoranthene				0.039	mg/kg		0.0368	mg/kg	0.00000368 %	✓	
	601-036-00-5	205-916-6	207-08-9									
11	arsenic { arsenic trioxide }				6.56	mg/kg	1.32	8.176	mg/kg	0.000818 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
12	dibenz[a,h]anthracene				<0.023	mg/kg		<0.023	mg/kg	<0.0000023 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
13	benzo[ghi]perylene				0.0662	mg/kg		0.0625	mg/kg	0.00000625 %	✓	
		205-883-8	191-24-2									
14	mercury { mercury dichloride }				<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
15	anthracene	204-371-1	120-12-7		<0.016 mg/kg		<0.016 mg/kg	<0.0000016 %		<LOD
16	fluoranthene	205-912-4	206-44-0		0.0974 mg/kg		0.0919 mg/kg	0.00000919 %	✓	
17	fluorene	201-695-5	86-73-7		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
18	chrysene	601-048-00-0	205-923-4	218-01-9	0.0755 mg/kg		0.0713 mg/kg	0.00000713 %	✓	
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
	006-007-00-5									
20	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	0.0797 mg/kg		0.0752 mg/kg	0.00000752 %	✓	
21	nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]	12.2 mg/kg	1.579	18.191 mg/kg	0.00182 %	✓	
22	pH		PH		11.1 pH		11.1 pH	11.1 pH		
23	naphthalene	601-052-00-2	202-049-5	91-20-3	0.102 mg/kg		0.0963 mg/kg	0.00000963 %	✓	
24	acenaphthene	201-469-6	83-32-9		<0.008 mg/kg		<0.008 mg/kg	<0.0000008 %		<LOD
25	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	27 mg/kg	1.126	28.697 mg/kg	0.00287 %	✓	
26	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	0.198 mg/kg	1.285	0.24 mg/kg	0.0000187 %	✓	
27	acenaphthylene	205-917-1	208-96-8		0.0134 mg/kg		0.0126 mg/kg	0.00000126 %	✓	
28	indeno[123-cd]pyrene	205-893-2	193-39-5		0.0663 mg/kg		0.0626 mg/kg	0.00000626 %	✓	
29	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	0.111 mg/kg		0.105 mg/kg	0.0000105 %	✓	
30	phenol	604-001-00-2	203-632-7	108-95-2	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
31	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }	215-160-9	1308-38-9		16.1 mg/kg	1.462	22.213 mg/kg	0.00222 %	✓	
Total:								0.103 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS4-120523-0.50-0.50

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:
WS4-120523-0.50-0.50	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
14% (wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 14% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	133	mg/kg		114.38	mg/kg	0.0114 %	✓	
	082-001-00-6											
2	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		<LOD
	034-002-00-8											
3	boron { boron tribromide }				1.56	mg/kg	23.173	31.089	mg/kg	0.00311 %	✓	
	005-003-00-0	233-657-9	10294-33-4									
4	vanadium { divanadium pentaoxide; vanadium pentoxide }				36.7	mg/kg	1.785	56.344	mg/kg	0.00563 %	✓	
	023-001-00-8	215-239-8	1314-62-1									
5	benzo[a]anthracene				0.963	mg/kg		0.828	mg/kg	0.0000828 %	✓	
	601-033-00-9	200-280-6	56-55-3									
6	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.6	mg/kg	1.923	<1.154	mg/kg	<0.000115 %		<LOD
	024-001-00-0	215-607-8	1333-82-0									
7	phenanthrene				0.758	mg/kg		0.652	mg/kg	0.0000652 %	✓	
		201-581-5	85-01-8									
8	pyrene				1.43	mg/kg		1.23	mg/kg	0.000123 %	✓	
		204-927-3	129-00-0									
9	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }				130	mg/kg	4.398	491.688	mg/kg	0.0492 %	✓	
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
10	benzo[k]fluoranthene				0.438	mg/kg		0.377	mg/kg	0.0000377 %	✓	
	601-036-00-5	205-916-6	207-08-9									
11	arsenic { arsenic trioxide }				10.4	mg/kg	1.32	11.809	mg/kg	0.00118 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
12	dibenz[a,h]anthracene				0.0953	mg/kg		0.082	mg/kg	0.0000082 %	✓	
	601-041-00-2	200-181-8	53-70-3									
13	benzo[ghi]perylene				0.482	mg/kg		0.415	mg/kg	0.0000415 %	✓	
		205-883-8	191-24-2									
14	mercury { mercury dichloride }				<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
15	anthracene	204-371-1	120-12-7		0.41 mg/kg		0.353 mg/kg	0.0000353 %	✓	
16	fluoranthene	205-912-4	206-44-0		1.78 mg/kg		1.531 mg/kg	0.000153 %	✓	
17	fluorene	201-695-5	86-73-7		0.067 mg/kg		0.0576 mg/kg	0.00000576 %	✓	
18	chrysene	601-048-00-0	205-923-4	218-01-9	1.02 mg/kg		0.877 mg/kg	0.0000877 %	✓	
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
	006-007-00-5									
20	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	0.915 mg/kg		0.787 mg/kg	0.0000787 %	✓	
21	nickel { nickel dihydroxide }				21.9 mg/kg	1.579	29.748 mg/kg	0.00297 %	✓	
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]							
22	pH		PH		8.32 pH		8.32 pH	8.32 pH		
23	naphthalene	601-052-00-2	202-049-5	91-20-3	0.0477 mg/kg		0.041 mg/kg	0.0000041 %	✓	
24	acenaphthene	201-469-6	83-32-9		0.0117 mg/kg		0.0101 mg/kg	0.00000101 %	✓	
25	copper { dicopper oxide; copper (I) oxide }				26.6 mg/kg	1.126	25.756 mg/kg	0.00258 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
26	cadmium { cadmium sulfide }			1	0.417 mg/kg	1.285	0.461 mg/kg	0.0000359 %	✓	
	048-010-00-4	215-147-8	1306-23-6							
27	acenaphthylene	205-917-1	208-96-8		0.0803 mg/kg		0.0691 mg/kg	0.00000691 %	✓	
28	indeno[123-cd]pyrene	205-893-2	193-39-5		0.5 mg/kg		0.43 mg/kg	0.000043 %	✓	
29	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	1.08 mg/kg		0.929 mg/kg	0.0000929 %	✓	
30	phenol	604-001-00-2	203-632-7	108-95-2	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
31	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				16 mg/kg	1.462	20.111 mg/kg	0.00201 %	✓	
	215-160-9	1308-38-9								
Total:								0.0795 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS5-120523-0.20-0.20

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:
WS5-120523-0.20-0.20	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
20% (wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 20% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	338	mg/kg		270.4	mg/kg	0.027 %	✓	
	082-001-00-6											
2	1,1,1-trichloroethane; methyl chloroform				<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
	602-013-00-2	200-756-3	71-55-6									
3	toluene				<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
	601-021-00-3	203-625-9	108-88-3									
4	1,2-dichloroethane; ethylene dichloride				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	602-012-00-7	203-458-1	107-06-2									
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		<LOD
	034-002-00-8											
6	boron { boron tribromide }				4.21	mg/kg	23.173	78.047	mg/kg	0.0078 %	✓	
	005-003-00-0	233-657-9	10294-33-4									
7	tetrachloroethylene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	602-028-00-4	204-825-9	127-18-4									
8	1,2-dichloropropane; propylene dichloride				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	602-020-00-0	201-152-2	78-87-5									
9	2,4-dinitrotoluene; [1] dinitrotoluene [2]				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	609-007-00-9	204-450-0 [1] 246-836-1 [2]	121-14-2 [1] 25321-14-6 [2]									
10	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
11	chloroform; trichloromethane				<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
	602-006-00-4	200-663-8	67-66-3									
12	vanadium { divanadium pentaoxide; vanadium pentoxide }				44.4	mg/kg	1.785	63.41	mg/kg	0.00634 %	✓	
	023-001-00-8	215-239-8	1314-62-1									
13	4-chlorophenylphenylether				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		230-281-7	7005-72-3									
14	benzo[a]anthracene				0.146	mg/kg		0.117	mg/kg	0.0000117 %	✓	
	601-033-00-9	200-280-6	56-55-3									
15	1,2,4-trichlorobenzene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
	602-087-00-6	204-428-0	120-82-1									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
16	3,5,5-trimethylcyclohex-2-enone; isophorone				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	606-012-00-8	201-126-0	78-59-1							
17	4-bromophenylphenylether				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		202-952-4	101-55-3							
18	bromoform; tribromomethane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-007-00-X	200-854-6	75-25-2							
19	nitrosodipropylamine				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	612-098-00-8	210-698-0	621-64-7							
20	2-chloronaphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		202-079-9	91-58-7							
21	trans-1,3-dichloropropene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		431-460-4	10061-02-6							
22	dimethyl phthalate				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-011-6	131-11-3							
23	2,2-dichloropropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		209-832-0	594-20-7							
24	pentachlorophenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-002-00-8	201-778-6	87-86-5							
25	hexachloroethane				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		200-666-4	67-72-1							
26	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.6 mg/kg	1.923	<1.154 mg/kg	<0.000115 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
27	azobenzene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	611-001-00-6	203-102-5	103-33-3							
28	carbon tetrachloride; tetrachloromethane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-008-00-5	200-262-8	56-23-5							
29	bromodichloromethane				<0.007 mg/kg		<0.007 mg/kg	<0.0000007 %		<LOD
		200-856-7	75-27-4							
30	TPH (C6 to C40) petroleum group				94.1 mg/kg		75.28 mg/kg	0.00753 %	✓	
			TPH							
31	dibenzofuran				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-071-3	132-64-9							
32	2,4,6-trichlorophenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-018-00-5	201-795-9	88-06-2							
33	2-methoxy-2-methylbutane; tert-amyl methyl ether				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	603-213-00-2	213-611-4	994-05-8							
34	phenanthrene				0.199 mg/kg		0.159 mg/kg	0.0000159 %	✓	
		201-581-5	85-01-8							
35	1,1,2-trichloroethane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-014-00-8	201-166-9	79-00-5							
36	chloromethane; methyl chloride				<0.007 mg/kg		<0.007 mg/kg	<0.0000007 %		<LOD
	602-001-00-7	200-817-4	74-87-3							
37	pyrene				0.309 mg/kg		0.247 mg/kg	0.0000247 %	✓	
		204-927-3	129-00-0							
38	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }				319 mg/kg	4.398	1122.351 mg/kg	0.112 %	✓	
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]							
39	benzo[k]fluoranthene				0.0654 mg/kg		0.0523 mg/kg	0.00000523 %	✓	
	601-036-00-5	205-916-6	207-08-9							
40	1,2,3-trichloropropane				<0.016 mg/kg		<0.016 mg/kg	<0.0000016 %		<LOD
	602-062-00-X	202-486-1	96-18-4							
41	bis(2-chloroethoxy)methane				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		203-920-2	111-91-1							
42	arsenic { arsenic trioxide }				14.6 mg/kg	1.32	15.421 mg/kg	0.00154 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
43	dibenz[a,h]anthracene				<0.023 mg/kg		<0.023 mg/kg	<0.0000023 %		<LOD
	601-041-00-2	200-181-8	53-70-3							

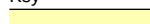
#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
44	bromobenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-060-00-9	203-623-8	108-86-1							
45	1,4-dichlorobenzene; p-dichlorobenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-035-00-2	203-400-5	106-46-7							
46	1,2-dibromo-3-chloropropane				<0.014 mg/kg		<0.014 mg/kg	<0.0000014 %		<LOD
	602-021-00-6	202-479-3	96-12-8							
47	benzo[ghi]perylene				0.0804 mg/kg		0.0643 mg/kg	0.00000643 %	✓	
		205-883-8	191-24-2							
48	hexachlorobutadiene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
		201-765-5	87-68-3							
49	mercury { mercury dichloride }				0.175 mg/kg	1.353	0.189 mg/kg	0.0000189 %	✓	
	080-010-00-X	231-299-8	7487-94-7							
50	hexachlorobenzene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	602-065-00-6	204-273-9	118-74-1							
51	4-isopropyltoluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		202-796-7	99-87-6							
52	1,1-dichloroethylene; vinylidene chloride				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-025-00-8	200-864-0	75-35-4							
53	trichlorofluoromethane				<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %		<LOD
		200-892-3	75-69-4							
54	dichloromethane; methylene chloride				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-004-00-3	200-838-9	75-09-2							
55	1,2-dibromoethane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-010-00-6	203-444-5	106-93-4							
56	3,4-xyleneol; [1] 2,5-xyleneol; [2] 2,4-xyleneol; [3] 2,3-xyleneol; [4] 2,6-xyleneol; [5] xyleneol; [6] 2,4(or 2,5)-xyleneol [7]				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]							
57	1,2,3-trichlorobenzene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
		201-757-1	87-61-6							
58	carbazole				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-696-0	86-74-8							
59	trichloroethylene; trichloroethene				<0.009 mg/kg		<0.009 mg/kg	<0.0000009 %		<LOD
	602-027-00-9	201-167-4	79-01-6							
60	ethylbenzene				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
61	bis(2-chloroethyl) ether				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	603-029-00-2	203-870-1	111-44-4							
62	anthracene				0.0353 mg/kg		0.0282 mg/kg	0.00000282 %	✓	
		204-371-1	120-12-7							
63	chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-014-00-3	200-431-6	59-50-7							
64	4-chloroaniline				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	612-137-00-9	203-401-0	106-47-8							
65	vinyl chloride; chloroethylene				<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %		<LOD
	602-023-00-7	200-831-0	75-01-4							
66	fluoranthene				0.345 mg/kg		0.276 mg/kg	0.0000276 %	✓	
		205-912-4	206-44-0							
67	fluorene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7							
68	chloroethane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-009-00-0	200-830-5	75-00-3							
69	2-methyl naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		202-078-3	91-57-6							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
70	2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4]										
	604-008-00-0	202-433-2 [1] 203-402-6 [2] 203-582-6 [3] 246-691-4 [4]	95-57-8 [1] 106-48-9 [2] 108-43-0 [3] 25167-80-0 [4]		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
71	bromomethane; methylbromide				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	602-002-00-2	200-813-2	74-83-9								
72	BBP; benzyl butyl phthalate				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	607-430-00-3	201-622-7	85-68-7								
73	1,2,4-trimethylbenzene				<0.009 mg/kg		<0.009 mg/kg	<0.0000009 %			<LOD
	601-043-00-3	202-436-9	95-63-6								
74	chrysene				0.168 mg/kg		0.134 mg/kg	0.0000134 %		✓	
	601-048-00-0	205-923-4	218-01-9								
75	1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]								
76	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
	006-007-00-5										
77	benzene				<0.009 mg/kg		<0.009 mg/kg	<0.0000009 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
78	4-nitrophenol; p-nitrophenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	609-015-00-2	202-811-7	100-02-7								
79	1,1,2,2-tetrachloroethane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	602-015-00-3	201-197-8	79-34-5								
80	bis(2-ethylhexyl) phthalate; di-(2-ethylhexyl) phthalate; DEHP				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	607-317-00-9	204-211-0	117-81-7								
81	n-butylbenzene				<0.011 mg/kg		<0.011 mg/kg	<0.0000011 %			<LOD
		203-209-7	104-51-8								
82	di-n-octyl phthalate				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		204-214-7	117-84-0								
83	tert-butylbenzene				<0.014 mg/kg		<0.014 mg/kg	<0.0000014 %			<LOD
		202-632-4	98-06-6								
84	benzo[a]pyrene; benzo[def]chrysene				0.13 mg/kg		0.104 mg/kg	0.0000104 %		✓	
	601-032-00-3	200-028-5	50-32-8								
85	nickel { nickel dihydroxide }				24.2 mg/kg	1.579	30.579 mg/kg	0.00306 %		✓	
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]								
86	2,6-dinitrotoluene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	609-049-00-8	210-106-0	606-20-2								
87	2,4,5-trichlorophenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	604-017-00-X	202-467-8	95-95-4								
88	styrene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-026-00-0	202-851-5	100-42-5								
89	dichlorodifluoromethane				<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %			<LOD
		200-893-9	75-71-8								
90	dibromomethane				<0.009 mg/kg		<0.009 mg/kg	<0.0000009 %			<LOD
	602-003-00-8	200-824-2	74-95-3								
91	diethyl phthalate				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		201-550-6	84-66-2								
92	1,1-dichloropropene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	602-031-00-0	209-253-3	563-58-6								
93	pH		PH		8.64 pH		8.64 pH	8.64 pH			
94	1,1,1,2-tetrachloroethane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		211-135-1	630-20-6								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
95	2,4-dichlorophenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-011-00-7	204-429-6	120-83-2							
96	carbon disulphide				<0.007 mg/kg		<0.007 mg/kg	<0.0000007 %		<LOD
	006-003-00-3	200-843-6	75-15-0							
97	naphthalene				<0.009 mg/kg		<0.009 mg/kg	<0.0000009 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
98	nitrobenzene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	609-003-00-7	202-716-0	98-95-3							
99	1,1-dichloroethane				<0.008 mg/kg		<0.008 mg/kg	<0.0000008 %		<LOD
	602-011-00-1	200-863-5	75-34-3							
100	bromochloromethane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		200-826-3	74-97-5							
101	1,3-dichloropropane				<0.007 mg/kg		<0.007 mg/kg	<0.0000007 %		<LOD
		205-531-3	142-28-9							
102	acenaphthene				0.0195 mg/kg		0.0156 mg/kg	0.00000156 %	✓	
		201-469-6	83-32-9							
103	hexachlorocyclopentadiene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	602-078-00-7	201-029-3	77-47-4							
104	chlorobenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-033-00-1	203-628-5	108-90-7							
105	copper { dicopper oxide; copper (I) oxide }				41.5 mg/kg	1.126	37.379 mg/kg	0.00374 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
106	1,3-dichlorobenzene				<0.008 mg/kg		<0.008 mg/kg	<0.0000008 %		<LOD
	602-067-00-7	208-792-1	541-73-1							
107	cadmium { cadmium sulfide }			1	0.533 mg/kg	1.285	0.548 mg/kg	0.0000426 %	✓	
	048-010-00-4	215-147-8	1306-23-6							
108	acenaphthylene				<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
		205-917-1	208-96-8							
109	dibromochloromethane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		204-704-0	124-48-1							
110	mesitylene; 1,3,5-trimethylbenzene				<0.008 mg/kg		<0.008 mg/kg	<0.0000008 %		<LOD
	601-025-00-5	203-604-4	108-67-8							
111	indeno[123-cd]pyrene				0.0901 mg/kg		0.0721 mg/kg	0.00000721 %	✓	
		205-893-2	193-39-5							
112	sec-butylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		205-227-0	135-98-8							
113	benzo[b]fluoranthene				0.172 mg/kg		0.138 mg/kg	0.0000138 %	✓	
	601-034-00-4	205-911-9	205-99-2							
114	dibutyl phthalate; DBP				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	607-318-00-4	201-557-4	84-74-2							
115	phenol				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
116	1,2-dichlorobenzene; o-dichlorobenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-034-00-7	202-425-9	95-50-1							
117	2-nitrophenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-857-5	88-75-5							
118	xylene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
119	2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.019 mg/kg		<0.019 mg/kg	<0.0000019 %		<LOD
	602-040-00-X	202-424-3 [1] 203-580-5 [2] 203-397-0 [3] 246-698-2 [4]	95-49-8 [1] 108-41-8 [2] 106-43-4 [3] 25168-05-2 [4]							

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
120	1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.016 mg/kg		<0.016 mg/kg	<0.0000016 %		<LOD	
	602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]								
121	o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD	
	612-012-00-9	201-855-4 [1] 202-729-1 [2] 202-810-1 [3]	88-74-4 [1] 99-09-2 [2] 100-01-6 [3]								
122	m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD	
	604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]								
123	cumene; [1] propylbenzene [2]				<0.015 mg/kg		<0.015 mg/kg	<0.0000015 %		<LOD	
	601-024-00-X	202-704-5 [1] 203-132-9 [2]	98-82-8 [1] 103-65-1 [2]								
124		chromium in chromium(III) compounds {  chromium(III) oxide (worst case) }			18 mg/kg	1.462	21.046 mg/kg	0.0021 %	✓		
		215-160-9	1308-38-9								
Total:								0.172 %			

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because Most likely worst case scenario

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00753%)

Appendix A: Classifier defined and non GB MCL determinands

• lead compounds with the exception of those specified elsewhere in this Annex (worst case)

GB MCL index number: 082-001-00-6

Description/Comments: Worst Case: IARC considers lead compounds Group 2A; Probably carcinogenic to humans; Lead REACH Consortium, following MCL protocols, considers lead compounds from smelting industries, flue dust and similar to be Carcinogenic category 1A

Additional Hazard Statement(s): Carc. 1A; H350

Reason for additional Hazards Statement(s):

20 Nov 2021 - Carc. 1A; H350 hazard statement sourced from: IARC Group 2A (Sup 7, 87) 2006; Lead REACH Consortium www.reach-lead.eu/substanceinformation.html (worst case lead compounds). Review date 29/09/2015

• polychlorobiphenyls; PCB (EC Number: 215-648-1, CAS Number: 1336-36-3)

GB MCL index number: 602-039-00-4

Description/Comments: Worst Case: IARC considers PCB Group 1; Carcinogenic to humans;

POP specific threshold from ATP1 (Regulation 756/2010/EU) to POPs Regulation (Regulation 850/2004/EC). Where applicable, the calculation method laid down in European standards EN 12766-1 and EN 12766-2 shall be applied.

Additional Hazard Statement(s): Carc. 1A; H350

Reason for additional Hazards Statement(s):

20 Nov 2021 - Carc. 1A; H350 hazard statement sourced from: IARC Group 1 (23, Sup 7, 100C) 2012

• divanadium pentaoxide; vanadium pentoxide (EC Number: 215-239-8, CAS Number: 1314-62-1)

GB MCL index number: 023-001-00-8

Description/Comments: Hazard statements H301, H330, H350 added by HazWasteOnline due to ATP 18 (Regulation (EU) 2022/692) considers vanadium pentoxide to be Carc. 1B; H350. The GB MCL Agency has reached the same opinion [but is yet to formerly make this change to the MCL List]. Substance has therefore been self-classified.

Additional Hazard Statement(s): Carc. 1B; H350, Acute Tox. 3; H301, Acute Tox. 2; H330

Reason for additional Hazards Statement(s):

20 Sep 2022 - Carc. 1B; H350 hazard statement sourced from: ATP 18 (Regulation (EU) 2022/692) considers vanadium pentoxide to be Carc. 1B; H350. The GB MCL Agency has reached the same opinion [but is yet to formerly make this change to the MCL List].

Substance has therefore been self-classified.

28 Sep 2022 - Acute Tox. 3; H301 hazard statement sourced from: ATP 18 (Regulation (EU) 2022/692) considers vanadium pentoxide to be "Acute tox 3; H301". The GB MCL Agency has reached the same opinion [but is yet to formerly make this change to the MCL List].

Substance has therefore been self-classified.

28 Sep 2022 - Acute Tox. 2; H330 hazard statement sourced from: ATP 18 (Regulation (EU) 2022/692) considers vanadium pentoxide to be "Acute tox 2; H330". The GB MCL Agency has reached the same opinion [but is yet to formerly make this change to the MCL List].

Substance has therefore been self-classified.

• 4-chlorophenylphenylether (EC Number: 230-281-7, CAS Number: 7005-72-3)

Description/Comments: VOC; Data from C&L Inventory Database

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Acute Tox. 4; H302, Skin Irrit. 2; H315, Skin Sens. 1; H317, Eye Dam. 1; H318, Eye Irrit. 2; H319, STOT SE 3; H335, Aquatic Acute 1; H400, Aquatic Chronic 1; H410

• 4-bromophenylphenylether (EC Number: 202-952-4, CAS Number: 101-55-3)

Description/Comments: VOC; Data from C&L Inventory Database

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Acute Tox. 4; H302, Skin Irrit. 2; H315, Skin Sens. 1; H317, Eye Dam. 1; H318, Eye Irrit. 2; H319, Aquatic Acute 1; H400, Aquatic Chronic 1; H410

• 2-chloronaphthalene (EC Number: 202-079-9, CAS Number: 91-58-7)

Description/Comments: VOC; Data from C&L Inventory Database

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Eye Irrit. 2; H319, STOT SE 3; H335, Skin Irrit. 2; H315

• trans-1,3-dichloropropene (EC Number: 431-460-4, CAS Number: 10061-02-6)

Description/Comments: VOC; Data from C&L Inventory Database

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Flam. Liq. 3; H226, Acute Tox. 3; H301, Asp. Tox. 1; H304, Acute Tox. 3; H311, Skin Irrit. 2; H315, Skin Sens. 1; H317, Eye Irrit. 2; H319, Acute Tox. 4; H332, STOT SE 3; H335, Aquatic Chronic 1; H410

• **dimethyl phthalate** (EC Number: 205-011-6, CAS Number: 131-11-3)

Description/Comments: VOC; Data from C&L Inventory Database

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , Acute Tox. 3; H331 , STOT SE 3; H335 , STOT SE 3; H336 , Repr. 2; H361 , Aquatic Chronic 3; H412

• **2,2-dichloropropane** (EC Number: 209-832-0, CAS Number: 594-20-7)

Description/Comments: VOC; Data from C&L Inventory Database

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Acute Tox. 4; H332 , Flam. Liq. 2; H225 , Acute Tox. 4; H302 , Acute Tox. 4; H312 , Eye Irrit. 2; H319

• **hexachloroethane** (EC Number: 200-666-4, CAS Number: 67-72-1)

Description/Comments: VOC; Data from C&L Inventory Database; IARC considers substance Group 2B;

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Carc. 2; H351 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , STOT RE 2; H373

• **bromodichloromethane** (EC Number: 200-856-7, CAS Number: 75-27-4)

Description/Comments: VOC; Data from C&L Inventory Database; IARC considers substance Group 2B;

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Eye Dam. 1; H318 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Muta. 1B; H340 , Carc. 1B; H350 , Repr. 1A; H360

• **TPH (C6 to C40) petroleum group** (CAS Number: TPH)

Description/Comments: Hazard statements taken from WM3 1st Edition 2015; Risk phrases: WM2 3rd Edition 2013

Data source: WM3 1st Edition 2015

Data source date: 25 May 2015

Hazard Statements: Flam. Liq. 3; H226 , Asp. Tox. 1; H304 , STOT RE 2; H373 , Muta. 1B; H340 , Carc. 1B; H350 , Repr. 2; H361d , Aquatic Chronic 2; H411

• **dibenzofuran** (EC Number: 205-071-3, CAS Number: 132-64-9)

Description/Comments: VOC; Data from C&L Inventory Database

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Acute Tox. 4; H302 , Acute Tox. 4; H312 , Acute Tox. 4; H332 , Aquatic Chronic 2; H411

• **phenanthrene** (EC Number: 201-581-5, CAS Number: 85-01-8)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 06 Aug 2015

Hazard Statements: Acute Tox. 4; H302 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Carc. 2; H351 , Skin Sens. 1; H317 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , Skin Irrit. 2; H315

• **pyrene** (EC Number: 204-927-3, CAS Number: 129-00-0)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 2014

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 21 Aug 2015

Hazard Statements: Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

• **bis(2-chloroethoxy)methane** (EC Number: 203-920-2, CAS Number: 111-91-1)

Description/Comments: VOC; Data from C&L Inventory Database

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Acute Tox. 3; H301 , Acute Tox. 4; H312 , Acute Tox. 1; H330 , Acute Tox. 2; H330 , STOT SE 1; H370 , STOT RE 2; H373

• **benzo[ghi]perylene** (EC Number: 205-883-8, CAS Number: 191-24-2)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 28/02/2015

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 23 Jul 2015

Hazard Statements: Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

▪ **hexachlorobutadiene** (EC Number: 201-765-5, CAS Number: 87-68-3)

Description/Comments: VOC; Data from C&L Inventory Database; IARC considers substance Group 3;

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Acute Tox. 3; H301 , Acute Tox. 2; H310 , Skin Irrit. 2; H315 , Skin Sens. 1; H317 , Eye Irrit. 2; H319 , Acute Tox. 2; H330 , Carc. 2; H351 , Repr. 2; H361 , STOT SE 2; H371 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

▪ **4-isopropyltoluene** (EC Number: 202-796-7, CAS Number: 99-87-6)

Description/Comments: VOC; Data from C&L Inventory Database

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Flam. Liq. 3; H226 , Asp. Tox. 1; H304 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Aquatic Chronic 2; H411

▪ **trichlorofluoromethane** (EC Number: 200-892-3, CAS Number: 75-69-4)

Description/Comments: VOC; Data from C&L Inventory Database

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Acute Tox. 4; H312 , Ozone 1; H420

▪ **1,2,3-trichlorobenzene** (EC Number: 201-757-1, CAS Number: 87-61-6)

Description/Comments: VOC; Data from C&L Inventory Database

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , STOT SE 3; H336 , Aquatic Acute 1; H400 , Aquatic Chronic 3; H410

▪ **carbazole** (EC Number: 201-696-0, CAS Number: 86-74-8)

Description/Comments: VOC; Data from C&L Inventory Database; IARC considers substance Group 2B;

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Muta. 2; H341 , Carc. 2; H351 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , Acute Tox. 3; H331 , Acute Tox. 3; H311 , Acute Tox. 3; H301

▪ **ethylbenzene** (EC Number: 202-849-4, CAS Number: 100-41-4)

GB MCL index number: 601-023-00-4

Description/Comments:

Additional Hazard Statement(s): Carc. 2; H351

Reason for additional Hazards Statement(s):

20 Nov 2021 - Carc. 2; H351 hazard statement sourced from: IARC Group 2B (77) 2000

▪ **anthracene** (EC Number: 204-371-1, CAS Number: 120-12-7)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 17 Jul 2015

Hazard Statements: Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Skin Sens. 1; H317 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

▪ **fluoranthene** (EC Number: 205-912-4, CAS Number: 206-44-0)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 21 Aug 2015

Hazard Statements: Acute Tox. 4; H302 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

▪ **fluorene** (EC Number: 201-695-5, CAS Number: 86-73-7)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 06 Aug 2015

Hazard Statements: Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

▪ **2-methyl naphthalene** (EC Number: 202-078-3, CAS Number: 91-57-6)

Description/Comments: VOC; Data from C&L Inventory Database

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , STOT SE 3; H336 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

▪ **salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex**

GB MCL index number: 006-007-00-5

Description/Comments: Conversion factor based on a worst case compound: sodium cyanide

Additional Hazard Statement(s): EUH032 >= 0.2 %

Reason for additional Hazards Statement(s):

20 Nov 2021 - EUH032 >= 0.2 % hazard statement sourced from: WM3, Table C12.2

▪ **n-butylbenzene** (EC Number: 203-209-7, CAS Number: 104-51-8)

Description/Comments: VOC; Data from C&L Inventory Database

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Flam. Liq. 3; H226 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

▪ **di-n-octyl phthalate** (EC Number: 204-214-7, CAS Number: 117-84-0)

Description/Comments: VOC; Data from C&L Inventory Database

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Repr. 2; H361 , Skin Sens. 1; H317 , Resp. Sens. 1; H334 , Eye Irrit. 2; H319 , Aquatic Chronic 4; H413

▪ **tert-butylbenzene** (EC Number: 202-632-4, CAS Number: 98-06-6)

Description/Comments: VOC; Data from C&L Inventory Database

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Flam. Liq. 3; H226 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , Acute Tox. 3; H331 , Acute Tox. 4; H332 , STOT SE 3; H335 , Asp. Tox. 1; H304 , Aquatic Chronic 2; H411

▪ **dichlorodifluoromethane** (EC Number: 200-893-9, CAS Number: 75-71-8)

Description/Comments: VOC; Data from C&L Inventory Database

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Aquatic Chronic 3; H412 , Ozone 1; H420 , Press. Gas; H280

▪ **diethyl phthalate** (EC Number: 201-550-6, CAS Number: 84-66-2)

Description/Comments: VOC; Data from C&L Inventory Database

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Skin Irrit. 2; H315 , Acute Tox. 3; H331 , Acute Tox. 3; H311 , STOT SE 3; H335 , STOT RE 2; H373 , Repr. 2; H361 , Acute Tox. 4; H302 , STOT SE 3; H336 , Skin Sens. 1; H317 , Aquatic Chronic 1; H410

▪ **pH** (CAS Number: PH)

Description/Comments: Appendix C4

Data source: WM3 1st Edition 2015

Data source date: 25 May 2015

Hazard Statements: None.

▪ **1,1,1,2-tetrachloroethane** (EC Number: 211-135-1, CAS Number: 630-20-6)

Description/Comments: VOC; Data from C&L Inventory Database; IARC considers substance Group 2B;

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Acute Tox. 4; H302 , Acute Tox. 1; H310 , Eye Irrit. 2; H319 , Acute Tox. 3; H331 , Eye Dam. 1; H318 , Acute Tox. 4; H332 , Carc. 2; H351 , Acute Tox. 4; H312 , Aquatic Chronic 3; H412 , Skin Irrit. 2; H315

▪ **bromochloromethane** (EC Number: 200-826-3, CAS Number: 74-97-5)

Description/Comments: VOC; Data from C&L Inventory Database

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Acute Tox. 4; H312 , Skin Corr. 1B; H314 , Eye Dam. 1; H318 , Acute Tox. 4; H332 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Ozone 1; H420

▪ **1,3-dichloropropane** (EC Number: 205-531-3, CAS Number: 142-28-9)

Description/Comments: VOC; Data from C&L Inventory Database

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Acute Tox. 4; H332 , Flam. Liq. 2; H225 , Flam. Liq. 3; H226 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335

▪ **acenaphthene** (EC Number: 201-469-6, CAS Number: 83-32-9)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 17 Jul 2015

Hazard Statements: Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , Aquatic Chronic 2; H411

▪ **acenaphthylene** (EC Number: 205-917-1, CAS Number: 208-96-8)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 17 Jul 2015

Hazard Statements: Acute Tox. 4; H302 , Acute Tox. 1; H330 , Acute Tox. 1; H310 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315

▪ **dibromochloromethane** (EC Number: 204-704-0, CAS Number: 124-48-1)

Description/Comments: VOC; Data from C&L Inventory Database; IARC considers substance Group 3;

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Acute Tox. 4; H302 , Acute Tox. 4; H312 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , Acute Tox. 4; H332 , STOT SE 3; H335 , STOT SE 3; H336 , Muta. 2; H341 , Aquatic Chronic 2; H411

▪ **indeno[123-cd]pyrene** (EC Number: 205-893-2, CAS Number: 193-39-5)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 06 Aug 2015

Hazard Statements: Carc. 2; H351

▪ **sec-butylbenzene** (EC Number: 205-227-0, CAS Number: 135-98-8)

Description/Comments: VOC; Data from C&L Inventory Database

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Flam. Liq. 3; H226 , Asp. Tox. 1; H304 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , Aquatic Chronic 2; H411

▪ **coronene** (EC Number: 205-881-7, CAS Number: 191-07-1)

Description/Comments: Data from C&L Inventory Database; no entries in Registered Substances or Pesticides Properties databases; SDS: Sigma Aldrich, 1907/2006 compliant, dated 2012 - no entries; IARC – Group 3, not carcinogenic.

Data source: <http://clp-inventory.echa.europa.eu/SummaryOfClassAndLabelling.aspx?SubstanceID=17010&HarmOnly=no?fc=true&lang=en>

Data source date: 16 Jun 2014

Hazard Statements: STOT SE 2; H371

▪ **2-nitrophenol** (EC Number: 201-857-5, CAS Number: 88-75-5)

Description/Comments: VOC; Data from C&L Inventory Database

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Acute Tox. 4; H302 , Acute Tox. 4; H312 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , Acute Tox. 4; H332 , STOT SE 3; H335 , STOT RE 2; H373 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

▪ **chromium(III) oxide (worst case)** (EC Number: 215-160-9, CAS Number: 1308-38-9)

Description/Comments: Data from C&L Inventory Database

Data source: <https://echa.europa.eu/information-on-chemicals/cl-inventory-database/-/discli/details/33806>

Data source date: 17 Jul 2015

Hazard Statements: Acute Tox. 4; H332 , Acute Tox. 4; H302 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Resp. Sens. 1; H334 , Skin Sens. 1; H317 , Repr. 1B; H360FD , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

Appendix B: Rationale for selection of metal species

lead {lead compounds with the exception of those specified elsewhere in this Annex (worst case)}

Most likely worst case

selenium {selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex}

Most likely worst-case

boron {boron tribromide}

worst-case

vanadium {divanadium pentaoxide; vanadium pentoxide}

Most likely worst-case

chromium in chromium(VI) compounds {chromium(VI) oxide}

Most likely worst-case

zinc {zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2]}

Most likely worst case

arsenic {arsenic trioxide}

Most likely worst-case

mercury {mercury dichloride}

Most likely worst-case

cyanides {salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex}

Most likely worst-case

nickel {nickel dihydroxide}

Most likely worst-case

copper {dicopper oxide; copper (I) oxide}

Most likely worst-case

cadmium {cadmium sulfide}

Most likely worst-case

chromium in chromium(III) compounds {chromium(III) oxide (worst case)}

worst case

Appendix C: Version

HazWasteOnline Classification Engine: **WM3 1st Edition v1.2.GB - Oct 2021**
HazWasteOnline Classification Engine Version: 2023.111.5569.10274 (22 Apr 2023)
HazWasteOnline Database: 2023.111.5569.10274 (22 Apr 2023)

This classification utilises the following guidance and legislation:

WM3 v1.2.GB - Waste Classification - 1st Edition v1.2.GB - Oct 2021

CLP Regulation - Regulation 1272/2008/EC of 16 December 2008

1st ATP - Regulation 790/2009/EC of 10 August 2009

2nd ATP - Regulation 286/2011/EC of 10 March 2011

3rd ATP - Regulation 618/2012/EU of 10 July 2012

4th ATP - Regulation 487/2013/EU of 8 May 2013

Correction to 1st ATP - Regulation 758/2013/EU of 7 August 2013

5th ATP - Regulation 944/2013/EU of 2 October 2013

6th ATP - Regulation 605/2014/EU of 5 June 2014

WFD Annex III replacement - Regulation 1357/2014/EU of 18 December 2014

Revised List of Waste 2014 - Decision 2014/955/EU of 18 December 2014

7th ATP - Regulation 2015/1221/EU of 24 July 2015

8th ATP - Regulation (EU) 2016/918 of 19 May 2016

9th ATP - Regulation (EU) 2016/1179 of 19 July 2016

10th ATP - Regulation (EU) 2017/776 of 4 May 2017

HP14 amendment - Regulation (EU) 2017/997 of 8 June 2017

13th ATP - Regulation (EU) 2018/1480 of 4 October 2018

14th ATP - Regulation (EU) 2020/217 of 4 October 2019

15th ATP - Regulation (EU) 2020/1182 of 19 May 2020

The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use)(Amendment etc.) (EU Exit)

Regulations 2020 - UK: 2020 No. 1567 of 16th December 2020

The Waste and Environmental Permitting etc. (Legislative Functions and Amendment etc.) (EU Exit) Regulations 2020 - UK: 2020 No. 1540 of 16th December 2020

GB MCL List - version 1.1 of 09 June 2021

APPENDIX I:

BGS Radon

Report

Alex Stratford
234
IVYDALE ROAD
LONDON
SE15 3BU
United Kingdom

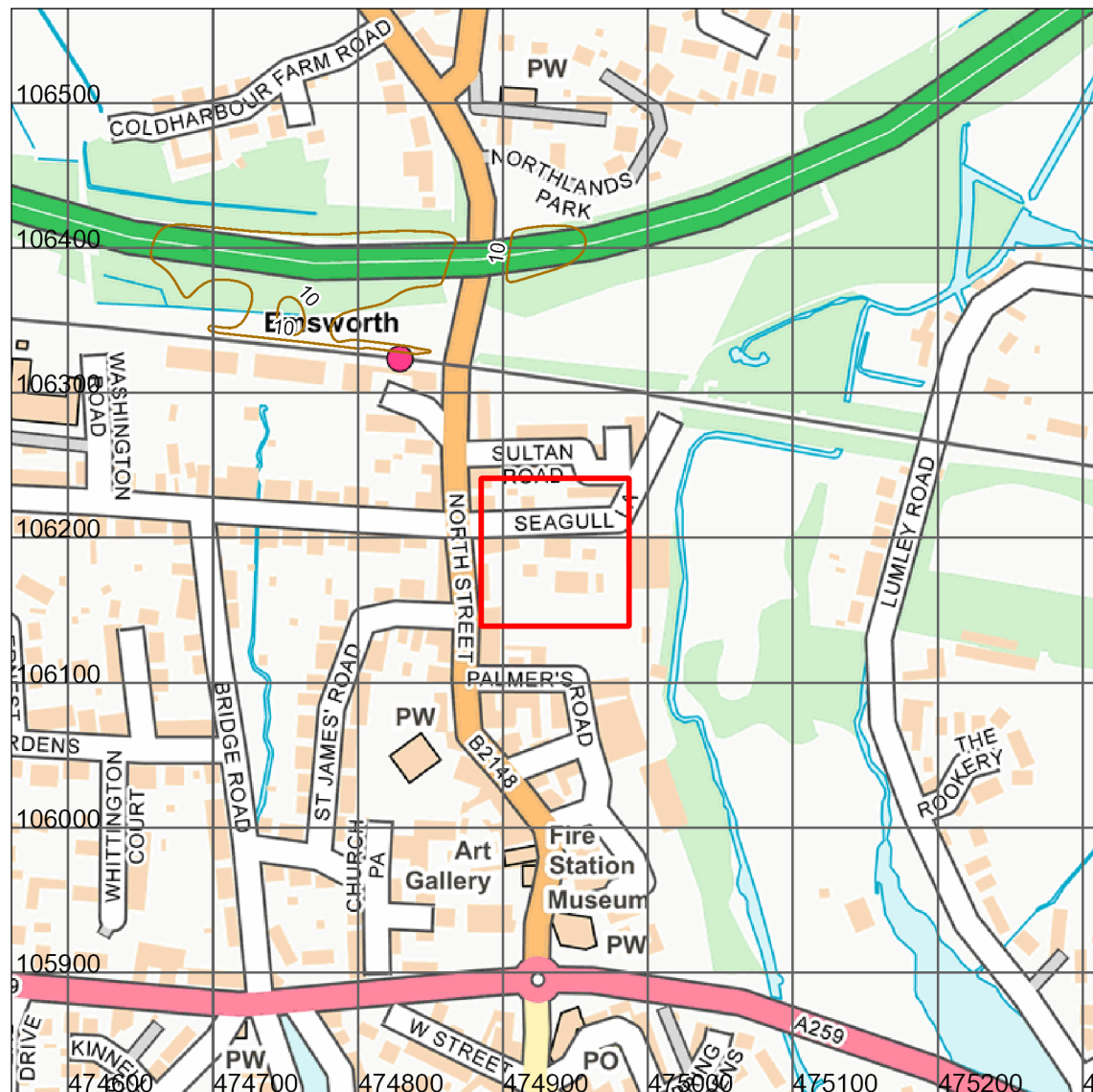
RADON REPORT

ADVISORY REPORT ON THE REQUIREMENT FOR RADON PROTECTIVE MEASURES IN NEW BUILDINGS, CONVERSIONS AND EXTENSIONS TO EXISTING BUILDINGS. THE REPORT ALSO INDICATES WHETHER A SITE IS LOCATED WITHIN A RADON AFFECTED AREA

REPORT ID: *BGS_333017/45235*

CLIENT REFERENCE: GWPR5385 2-6 SEAGULL LANE EMSWORTH

Search location



Contains OS data © Crown Copyright and database right 2023. OS OpenMap Local: Scale: 1:5 000 (1cm = 50 m)

Search location indicated in red

Site Address:

2

SEAGULL LANE

EMSWORTH

PO10 7QH

This report describes a site located at the National Grid Reference obtained from Ordnance Survey OS Places API.

Note that for sites of irregular shape, this point may lie outside the site boundary.

Where the client has submitted a site plan the assessment will be based on the area

given.

Radon Report: UK

When extensions are made to existing buildings in high radon areas, or new buildings are constructed in these areas, the Building Regulations for England, Wales, Scotland and Northern Ireland require that protective measures are taken against radon entering the building.

This report provides information on whether radon protective measures are required. Depending on the probability of buildings having high radon levels, the Regulations may require either:

1. No protective measures
2. Basic protective measures
3. Full protective measures

This is an advisory report on the requirement for radon protective measures in new buildings, conversions and extensions. The report also indicates whether a site is located within a radon Affected Area

Requirement for radon protective measures

The determination below follows advice in *BR211 Radon: Guidance on protective measures for new buildings (2015 edition)*, which also provides guidance on what to do if the result indicates that protective measures are required.

Is the property in an area where radon protective measures are required for new buildings or extensions to existing ones as described in publication BR211 (2015 edition) Radon: Guidance on protective measures for new buildings?

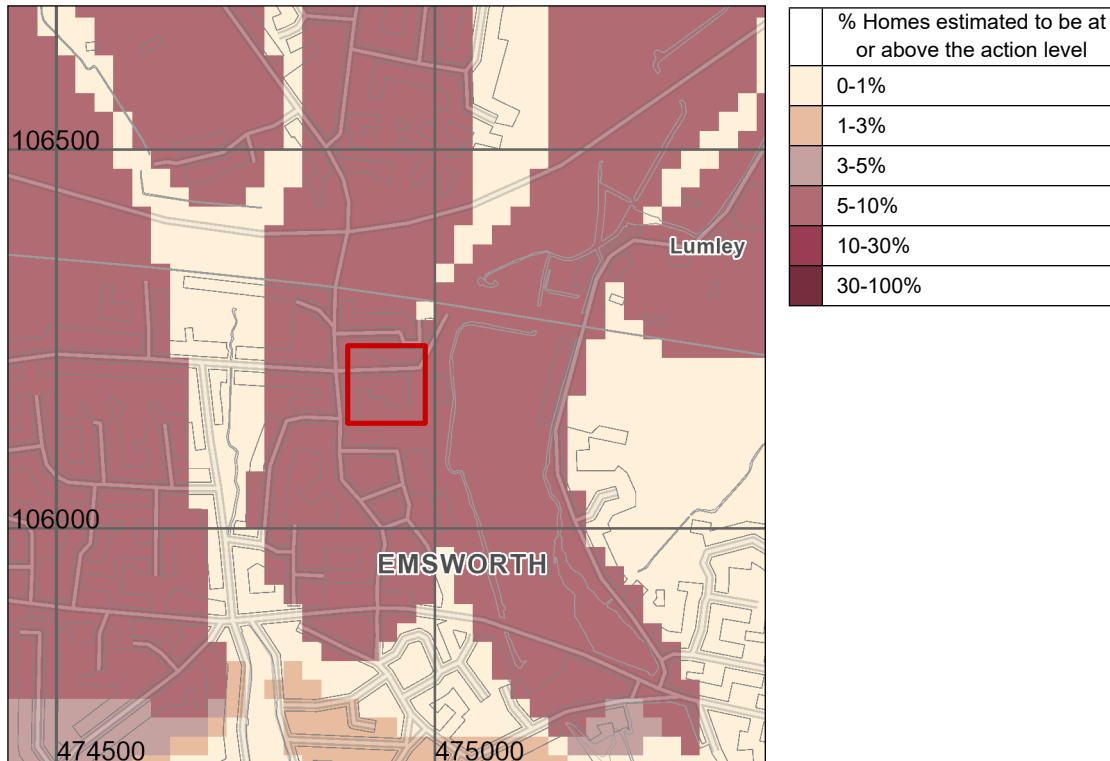
BASIC RADON PROTECTIVE MEASURES ARE REQUIRED FOR THE REPORT AREA.

More details of the protective measures required are available in *BR211 Radon: Guidance on protective measures for new buildings (2015 Edition)*. Additional information and guidance is available from the Building Research Establishment website (<http://www.bre.co.uk/radon/>).

Whether or not the radon level in a building is above or below the radon Action Level can only be established by having the building tested. The UKHSA provides a radon testing service which can be accessed at www.ukradon.org or by telephone (01235 822622).

If you require further information or guidance, you should contact your local authority building control officer or approved inspector.

Radon Affected Area



Contains OS data © Crown Copyright and database right 2023
Scale: 1:10 000 (1cm = 100 m)
Search area indicated in red

Is the property in a radon Affected Area as defined by the UK Health Security Agency (UKHSA) and if so what percentage of homes are estimated to be at or above the Action Level? YES

Additional Information

THE PROPERTY IS IN A RADON AFFECTED AREA WHERE 5 TO 10% OF HOMES ARE ESTIMATED TO BE AT OR ABOVE THE ACTION LEVEL.

The UKHSA recommends a radon 'Action Level' of 200 Becquerels per cubic metre of air (Bq m^{-3}) for the annual average of the radon gas concentration in a home. Where 1% or more of homes are estimated to be at or above the Action Level the area should be regarded as a radon Affected Area.

This report informs you whether the property is in a radon Affected Area and the percentage of homes that are estimated to be at or above the radon Action Level at this location. Being in an Affected Area does not necessarily mean there is a high radon level within the property; the only way to determine the radon level is to carry out a radon measurement.

The UKHSA advises that radon gas should be measured in all properties within radon Affected Areas and that homes with radon levels at or above the Action Level (200 Bq m⁻³) should be remediated. Householders with levels between the Target Level (100 Bq m⁻³) and Action Level should seriously consider reducing their radon level, especially if they are at greater risk, such as if they are current or ex smokers. Whether or not a home is in fact above or below the Action Level or Target Level can only be established by having the building tested. The UKHSA provides a validated radon testing service which can be accessed at www.ukradon.org.

The information in this report provides an answer to one of the standard legal enquiries on house purchase in England and Wales, known as Law Society CON29 Enquiries of the Local Authority (2016); 3.14 Radon Gas: Do records indicate that the property is in a “Radon Affected Area” as identified by the UKHSA. The data can also be used to advise house buyers and sellers in Scotland and Northern Ireland.

If you are buying a new build property in a Radon Affected Area, you should ask the builder whether radon protective measures were incorporated in the construction of the property.

If you are buying a currently occupied property in a radon Affected Area, you should ask the present owner whether radon levels have been measured in the property. If they have, ask whether the results were at or above the radon Action Level and if so, whether remedial measures were installed, radon levels were re-tested, and if the results of re-testing confirmed the effectiveness of the measures.

Further information on radon is available from the UKHSA at www.ukradon.org.

What is radon?

Radon is a naturally occurring radioactive gas, which is produced by the radioactive decay of radium which, in turn, is derived from the radioactive decay of uranium. Uranium is found in small quantities in all soils and rocks, although the amount varies from place to place. Radon released from rocks and soils is quickly diluted in the atmosphere. Concentrations in the open air are normally very low and do not present a hazard. Radon that enters enclosed spaces such as some buildings (particularly basements), caves, mines, and tunnels may reach high concentrations in some circumstances. The construction method and degree of ventilation will influence radon levels in individual buildings. A person's exposure to radon will also vary according to how particular buildings and spaces are used.

Inhalation of the radioactive decay products of radon gas increases the chance of developing lung cancer. If individuals are exposed to high concentrations for significant periods of time, there may be cause for concern. In order to limit the risk to individuals, the Government has adopted an Action Level for radon in homes of 200 becquerels per cubic metre (Bq m⁻³). The Government advises householders that, where the radon level is at or above the Action Level, measures should be taken to reduce the concentration.

Radon in workplaces

The Ionising Radiation Regulations 2017 require employers to take action when radon is present above a defined level in the workplace. Advice may be obtained from your local Health and Safety Executive Area Office or the Environmental Health Department of your local authority. The BRE publishes a guide (BR293): **Radon in the workplace**. BRE publications may be obtained from the BRE Bookshop, Tel: 01923 664262, email: bookshop@bre.co.uk website: www.brebookshop.com

Contact Details

Keyworth Office

British Geological Survey
Environmental Science Centre
Nicker Hill
Keyworth
Nottingham
NG12 5GG
Tel: 0115 9363100
Email: enquiries@bgs.ac.uk

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British Geological Survey
Lyell Centre
Research Avenue South
Edinburgh
EH14 4AP
Tel: 0131 6671000
Email: enquiry@bgs.ac.uk

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Important notes about this Report

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- Geological observations and interpretations are made according to the prevailing understanding of the subject at the time. The quality of such observations and interpretations may be affected by the availability of new data, by subsequent advances in knowledge, improved methods of interpretation, and better access to sampling locations.
- Raw data may have been transcribed from analogue to digital format, or may have been acquired by means of automated measuring techniques. Although such processes are subjected to quality control to ensure reliability where possible, some raw data may have been processed without human intervention and may in consequence contain undetected errors.
- Detail, which is clearly defined and accurately depicted on large-scale maps, may be lost when small-scale maps are derived from them.
- Although samples and records are maintained with all reasonable care, there may be some deterioration in the long term.
- The most appropriate techniques for copying original records are used, but there may be some loss of detail and dimensional distortion when such records are copied.
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- The topography shown on any map extracts is based on the latest OS mapping and is not necessarily the same as that used in the original compilation of the BGS geological map, and to which the geological linework available at that time was fitted.
- Note that for some sites, the latest available records may be historical in nature, and while every effort is made to place the analysis in a modern geological context, it is possible in some cases that the detailed geology at a site may differ from that described.

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**Report issued by
BGS Enquiry Service**

APPENDIX J:

Ground Gas Monitoring Results

Job No:	GWPR5385
Site name:	Seagull Lane Emsworth
Operator:	AA

Date:	25/05/2023		
Time:	12:20	to	12:40
Visit No:	1	of	2

Ground Gas Analyser:	GFM-436
Last Calibration:	Apr-22



	GAS CONCENTRATIONS								VOLATILES		FLOW DATA		WELL AND WATER DATA		Additional Remarks	
Monitoring Point	Methane (%v/v)		Carbon dioxide (%v/v)		Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	Oxygen (%v/v)		PID Peak (ppm)	Product thickness (mm)	Flow rate (l/hr)		Differential borehole Pressure (Pa)	Water level (m bgl)		Depth of well (m bgl)
	Peak	Steady	Peak	Steady	Peak	Peak	Min	Steady			Peak	Steady				
Ambient air	0.00	0.00	0.10	0.00	0.00	0.00	20.40	20.40	0.10	0.00	0.00	0.00	0.00			
WS1	21.20	21.20	3.30	3.30	0.00	0.00	5.50	5.60	155.50	0.00	0.00	0.00	0.00	0.60	3.50	
WS3	0.00	0.00	0.30	0.30	0.00	0.00	20.00	20.00	412.60	0.00	0.00	0.00	0.00	0.50	4.40	
WS5	0.00	0.00	0.70	0.70	0.00	0.00	19.80	19.80	389.20	0.00	0.00	0.00	0.00	0.30	4.60	
Max	21.20	21.20	3.30	3.30	0	0	20.40	20.40	412.6	0	0.00	0.00	0.00	0.6		
Min	0.00	0.00	0.10	0.00	0	0	5.50	5.60	0.1	0	0.00	0.00	0.00	0.3		

SITE INFORMATION:

State of ground:	☒ Dry	☐ Wet	☐ Snow	☐ Frozen	☐ Hardstanding
Wind:	☒ Calm	☐ Moderate	☐ Strong		
Cloud cover:	☐ None	☒ Cloudy	☐ Overcast		
Precipitation:	☒ None	☐ Moderate	☐ Heavy		

METEOROLOGICAL INFORMATION:

Official Barometric Pressure (mbar): 3hr Before End of Monitoring (taken from www.metoffice.gov.uk station Southbourne)

Official Pressure Tendency:

(Change in atmospheric pressure for the preceding 3 hours of monitoring)

☐	Falling (decreasing change >1.6 mbar)
☒	Steady (change of 0.1 - 1.5 mbar)
☐	Rising (increasing change >1.6 mbar)

Job No:	GWPR5385
Site name:	Seagull lane Emsworth
Operator:	JC

Date:	08/06/2023		
Time:	15:25	to	15:40
Visit No:	2	of	2

Ground Gas Analyser:	GFM-436
Last Calibration:	Apr-22



	GAS CONCENTRATIONS								VOLATILES		FLOW DATA			WELL AND WATER DATA		Additional Remarks
Monitoring Point	Methane (%v/v)		Carbon dioxide (%v/v)		Carbon monoxide (ppm)	Hydrogen sulphide (ppm)	Oxygen (%v/v)		PID Peak (ppm)	Product thickness (mm)	Flow rate (l/hr)		Differential borehole Pressure (Pa)	Water level (m bgl)	Depth of well (m bgl)	
	Peak	Steady	Peak	Steady	Peak	Peak	Min	Steady			Peak	Steady				
Ambient air	0.00	0.00	0.00	0.00	0.00	0.00	20.60	20.60	-	-	0.00	0.00	0.00	-	-	
WS1	31.00	31.00	3.90	3.90	0.00	0.00	0.10	0.10	0.60		0.00	0.00	0.00	0.70	3.40	
WS3	0.00	0.00	0.40	0.40	0.00	0.00	19.60	19.60	1.00		0.00	0.00	0.00	0.90	4.40	
WS5	0.00	0.00	0.70	0.70	0.00	0.00	20.50	20.50	6.30		0.00	0.00	0.00	0.40	4.60	
Max	31.00	31.00	3.90	3.90	0	0	20.60	20.60	6.3	0	0.00	0.00	0.00	0.9		
Min	0.00	0.00	0.00	0.00	0	0	0.10	0.10	0.6	0	0.00	0.00	0.00	0.4		

SITE INFORMATION:

State of ground: ☒ Dry ☐ Wet ☐ Snow ☐ Frozen ☐ Hardstanding
Wind: ☒ Calm ☐ Moderate ☐ Strong
Cloud cover: ☒ None ☐ Cloudy ☐ Overcast
Precipitation: ☒ None ☐ Moderate ☐ Heavy

METEOROLOGICAL INFORMATION:

Official Barometric Pressure (mbar): 3hr Before End of Monitoring (taken from www.metoffice.gov.uk station Southbourne)

Official Pressure Tendency:

(Change in atmospheric pressure for the preceding 3 hours of monitoring)

☐ Falling (decreasing change >1.6 mbar)
☒ Steady (change of 0.1 - 1.5 mbar)
☐ Rising (increasing change >1.6 mbar)

APPENDIX K: Gas Cannister and Dissolved Gasses in Groundwater results



Unit 7-8 Hawarden Business Park
Manor Road (off Manor Lane)
Hawarden
Deeside
CH5 3US

Tel: (01244) 528777
email: hawardencustomerservices@alsglobal.com
Website: www.alsenvironmental.co.uk

Ground and Water Ltd
Head Office
2 The Long Barn
Norton Farm, Selborne Road
Alton
Hampshire
GU34 3NB

Attention: Alex Stratford

CERTIFICATE OF ANALYSIS

Date of report Generation:	13 July 2023
Customer:	Ground and Water Ltd
Sample Delivery Group (SDG):	230705-89
Your Reference:	GWPR5475 2 - 6 Seagull Lane, Emsworth, PO10 7QH
Location:	2 - 6 Seagull Lane, Emsworth PO10 7QH
Report No:	696276
Order Number:	GWPR5475

We received 3 samples on Wednesday July 05, 2023 and 3 of these samples were scheduled for analysis which was completed on Thursday July 13, 2023. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden.

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.

Incorrect sampling dates and/or sample information will affect the validity of results.

The customer is not permitted to reproduce this report except in full without the approval of the laboratory.

Approved By:

Sonia McWhan

Operations Manager





CERTIFICATE OF ANALYSIS

Validated

SDG: 230705-89 Report Number: 696276 Superseded Report:
Client Ref.: GWPR5475 2 - 6 Seagull Lan Location: 2 - 6 Seagull Lane, Emsworth PO10 7QH

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
28276297	WS1		0.00 - 0.00	03/07/2023
28276301	WS3		0.00 - 0.00	03/07/2023
28276304	WS5		0.00 - 0.00	03/07/2023

Only received samples which have had analysis scheduled will be shown on the following pages.



CERTIFICATE OF ANALYSIS

Validated

SDG: 230705-89

Report Number: 696276

Superseded Report:

Client Ref.: GWPR5475 2 - 6 Seagull Lan

Location: 2 - 6 Seagull Lane, Emsworth PO10 7QH

Results Legend



Test



No Determination Possible

Sample Types -

S - Soil/Solid
 UNS - Unspecified Solid
 GW - Ground Water
 SW - Surface Water
 LE - Land Leachate
 PL - Prepared Leachate
 PR - Process Water
 SA - Saline Water
 TE - Trade Effluent
 TS - Treated Sewage
 US - Untreated Sewage
 RE - Recreational Water
 DW - Drinking Water
 Non-regulatory
 UNL - Unspecified Liquid
 SL - Sludge
 G - Gas
 OTH - Other

Lab Sample No(s)

Customer Sample Reference

AGS Reference

Depth (m)

Container

Sample Type

Bulk Gas

All

NDPs: 0
 Tests: 3

X

X

X

Odourant Gas Analysis (G)

All

NDPs: 0
 Tests: 3

X

X

X

TPH in Gas samples

All

NDPs: 0
 Tests: 3

X

X

X

VOC's

All

NDPs: 0
 Tests: 3

X

X

X

SDG: 230705-89

Report Number: 696276

Superseded Report:

Client Ref.: GWPR5475 2 - 6 Seagull Lan

Location: 2 - 6 Seagull Lane, Emsworth PO10 7QH

[illegible]



CERTIFICATE OF ANALYSIS

Validated

SDG: 230705-89
Client Ref.: GWPR5475 2 - 6 Seagull Lan

Report Number: 696276
Location: 2 - 6 Seagull Lane, Emsworth PO10 7QH

Superseded Report:

Sample Number 28276297

Sample ID WS1

Depth 0.00 - 0.00

Sampled Date 03/07/2023 00:00

- ISO17025 accredited. M - mCERTS accredited. 1-4*§@ - Sample deviation (see appendix)

Method TM335 Determination of TPH in atmospheric, sub-slab and soil gas samples

Canister No. 92 Sample Volume (ml) 5 Initial pressure (psia) 13.39 Final pressure (psia) 19.04 Dilution 1.4219566841

CAS Number	Compound	LOD	Result	Units	LOD	Result	Units
1634-04-4	MTBE	<42.7	<42.7	ppbv	<154	<154	ug/m ³
71-43-2	Benzene	<37.0	<37.0	ppbv	<118	<118	ug/m ³
108-88-3	Toluene	<42.7	53.8	ppbv	<161	203	ug/m ³
100-41-4	Ethyl Benzene	<42.7	95.0	ppbv	<185	412	ug/m ³
108-38-3 & 106-42-3	m/p-Xylene	<42.7	86.2	ppbv	<185	374	ug/m ³
95-47-6	o-Xylene	<42.7	43.2	ppbv	<185	187	ug/m ³
91-20-3	Naphthalene	<65.4	<65.4	ppbv	<342	<342	ug/m ³
-	TPH (C4-C6)	<284	9810	ppbv	<829	28600	ug/m ³
-	TPH (C6-C8)	<284	9180	ppbv	<1050	33900	ug/m ³
-	TPH (C8-C10)	<390	17100	ppbv	<1840	80700	ug/m ³
-	TPH (C10-C12)	<603	5860	ppbv	<3500	34000	ug/m ³
-	TPH (C4-C12)	<1560	41900	ppbv	<7220	177000	ug/m ³
-	Aliphatic (C4-C6)	<284	9810	ppbv	<829	28600	ug/m ³
-	Aliphatic (C6-C8)	<204	9130	ppbv	<771	33700	ug/m ³
-	Aliphatic (C8-C10)	<106	16300	ppbv	<540	77200	ug/m ³
-	Aliphatic (C10-C12)	<319	5860	ppbv	<1280	34000	ug/m ³
-	Aromatic (EC5-EC7)	<37.0	<37.0	ppbv	<118	<118	ug/m ³
-	Aromatic (EC7-EC8)	<42.7	53.8	ppbv	<161	203	ug/m ³
-	Aromatic (EC8-EC10)	<284	765	ppbv	<1300	3510	ug/m ³
-	Aromatic (EC10-EC12)	<284	<284	ppbv	<2220	<2230	ug/m ³



CERTIFICATE OF ANALYSIS

Validated

SDG: 230705-89
Client Ref.: GWPR5475 2 - 6 Seagull Lan

Report Number: 696276
Location: 2 - 6 Seagull Lane, Emsworth PO10 7QH

Superseded Report:

Sample Number 28276301

Sample ID WS3

Depth 0.00 - 0.00

Sampled Date 03/07/2023 00:00

- ISO17025 accredited. M - mCERTS accredited. 1-4* - Sample deviation (see appendix)

Method TM335 Determination of TPH in atmospheric, sub-slab and soil gas samples

Canister No. 331 Sample Volume (ml) 160 Initial pressure (psia) 12.54 Final pressure (psia) 19.04 Dilution 1.5183413078

CAS Number	Compound	LOD	Result	Units	LOD	Result	Units
1634-04-4	MTBE	<1.42	<1.42	ppbv	<5.11	<5.12	ug/m ³
71-43-2	Benzene	<1.23	1.76	ppbv	<3.92	5.61	ug/m ³
108-88-3	Toluene	<1.42	1.60	ppbv	<5.34	6.02	ug/m ³
100-41-4	Ethyl Benzene	<1.42	<1.42	ppbv	<6.16	<6.17	ug/m ³
108-38-3 & 106-42-3	m/p-Xylene	<1.42	1.62	ppbv	<6.16	7.02	ug/m ³
95-47-6	o-Xylene	<1.42	<1.42	ppbv	<6.16	<6.17	ug/m ³
91-20-3	Naphthalene	<2.18	<2.18	ppbv	<11.4	<11.4	ug/m ³
-	TPH (C4-C6)	<9.49	354	ppbv	<27.7	1030	ug/m ³
-	TPH (C6-C8)	<9.49	84.6	ppbv	<35.0	312	ug/m ³
-	TPH (C8-C10)	<13.0	47.3	ppbv	<61.5	223	ug/m ³
-	TPH (C10-C12)	<20.1	54.3	ppbv	<117	315	ug/m ³
-	TPH (C4-C12)	<52.1	540	ppbv	<241	1880	ug/m ³
-	Aliphatic (C4-C6)	<9.49	354	ppbv	<27.7	1030	ug/m ³
-	Aliphatic (C6-C8)	<6.84	81.2	ppbv	<25.7	300	ug/m ³
-	Aliphatic (C8-C10)	<3.51	47.3	ppbv	<18.0	223	ug/m ³
-	Aliphatic (C10-C12)	<10.6	54.3	ppbv	<42.7	315	ug/m ³
-	Aromatic (EC5-EC7)	<1.23	1.76	ppbv	<3.92	5.61	ug/m ³
-	Aromatic (EC7-EC8)	<1.42	1.60	ppbv	<5.34	6.02	ug/m ³
-	Aromatic (EC8-EC10)	<9.49	<9.49	ppbv	<43.5	<43.5	ug/m ³
-	Aromatic (EC10-EC12)	<9.49	<9.49	ppbv	<74.3	<74.3	ug/m ³



CERTIFICATE OF ANALYSIS

Validated

SDG: 230705-89
Client Ref.: GWPR5475 2 - 6 Seagull Lan

Report Number: 696276
Location: 2 - 6 Seagull Lane, Emsworth PO10 7QH

Superseded Report:

Sample Number 28276304

Sample ID WS5

Depth 0.00 - 0.00

Sampled Date 03/07/2023 00:00

- ISO17025 accredited. M - mCERTS accredited. 1-4* - Sample deviation (see appendix)

Method TM335 Determination of TPH in atmospheric, sub-slab and soil gas samples

Canister No. 131 Sample Volume (ml) 160 Initial pressure (psia) 13.18 Final pressure (psia) 19.04 Dilution 1.4446130501

CAS Number	Compound	LOD	Result	Units	LOD	Result	Units
1634-04-4	MTBE	<1.35	<1.35	ppbv	<4.86	<4.87	ug/m ³
71-43-2	Benzene	<1.17	3.11	ppbv	<3.73	9.91	ug/m ³
108-88-3	Toluene	<1.35	4.13	ppbv	<5.08	15.5	ug/m ³
100-41-4	Ethyl Benzene	<1.35	<1.35	ppbv	<5.85	<5.87	ug/m ³
108-38-3 & 106-42-3	m/p-Xylene	<1.35	2.98	ppbv	<5.85	12.9	ug/m ³
95-47-6	o-Xylene	<1.35	1.45	ppbv	<5.85	6.27	ug/m ³
91-20-3	Naphthalene	<2.08	<2.08	ppbv	<10.9	<10.9	ug/m ³
-	TPH (C4-C6)	<9.03	149	ppbv	<26.3	435	ug/m ³
-	TPH (C6-C8)	<9.03	46.7	ppbv	<33.3	172	ug/m ³
-	TPH (C8-C10)	<12.4	116	ppbv	<58.6	549	ug/m ³
-	TPH (C10-C12)	<19.1	75.5	ppbv	<111	438	ug/m ³
-	TPH (C4-C12)	<49.6	387	ppbv	<229	1590	ug/m ³
-	Aliphatic (C4-C6)	<9.03	149	ppbv	<26.3	435	ug/m ³
-	Aliphatic (C6-C8)	<6.51	39.5	ppbv	<24.5	147	ug/m ³
-	Aliphatic (C8-C10)	<3.37	103	ppbv	<17.2	487	ug/m ³
-	Aliphatic (C10-C12)	<10.1	75.5	ppbv	<40.3	438	ug/m ³
-	Aromatic (EC5-EC7)	<1.17	3.11	ppbv	<3.73	9.91	ug/m ³
-	Aromatic (EC7-EC8)	<1.35	4.13	ppbv	<5.08	15.5	ug/m ³
-	Aromatic (EC8-EC10)	<9.03	13.5	ppbv	<41.4	61.8	ug/m ³
-	Aromatic (EC10-EC12)	<9.03	<9.03	ppbv	<70.7	<70.7	ug/m ³



CERTIFICATE OF ANALYSIS

Validated

SDG: 230705-89
Client Ref.: GWPR5475 2 - 6 Seagull Lan

Report Number: 696276
Location: 2 - 6 Seagull Lane, Emsworth PO10 7QH

Superseded Report:

Sample Number 28276297

Sample ID WS1

Depth 0.00 - 0.00

Sampled Date 03/07/2023 00:00:0

- ISO17025 accredited.

M - mCERTS accredited.

1-4*§@ - Sample deviation (see appendix)

Method TM330

Determination of VOC's in atmospheric, sub-slab and soil gas samples

Canister No. 92

Sample Volume (ml) 5

Dispatch pressure (psia) -0.06 Initial pressure (psia) 13.39 Final pressure (psia) 19.26 Dilution 1.4383868559

CAS Number	Compound	LOD	Result	Units	LOD	Result	Units
71-55-6	1,1,1-Trichloroethane	<43.2	<43.2	# ppbv	<235	<235	# ug/m ³
79-34-5	1,1,2,2-Tetrachloroethane	<43.2	<43.2	3 # ppbv	<297	<297	3 # ug/m ³
79-00-5	1,1,2-Trichloroethane	<43.2	<43.2	# ppbv	<235	<235	# ug/m ³
75-34-3	1,1-Dichloroethane	<43.2	<43.2	# ppbv	<175	<175	# ug/m ³
75-35-4	1,1-Dichloroethene	<43.2	<43.2	# ppbv	<171	<171	# ug/m ³
526-73-8	1,2,3-Trimethylbenzene	<43.2	<43.2	# ppbv	<212	<212	# ug/m ³
120-82-1	1,2,4-Trichlorobenzene	<43.2	<43.2	3 # ppbv	<320	<319	3 # ug/m ³
95-63-6	1,2,4-Trimethylbenzene	<43.2	<43.2	# ppbv	<212	<212	# ug/m ³
106-93-4	1,2-Dibromoethane	<43.2	<43.2	# ppbv	<332	<332	# ug/m ³
95-50-1	1,2-Dichlorobenzene	<43.2	<43.2	3 # ppbv	<260	<259	3 # ug/m ³
107-06-2	1,2-Dichloroethane	<43.2	<43.2	# ppbv	<175	<175	# ug/m ³
78-87-5	1,2-Dichloropropane	<43.2	<43.2	# ppbv	<200	<199	# ug/m ³
76-14-2	1,2-Dichlorotetrafluoroethane	<43.2	<43.2	# ppbv	<302	<302	# ug/m ³
108-67-8	1,3,5-Trimethylbenzene	<43.2	<43.2	# ppbv	<212	<212	# ug/m ³
106-99-0	1,3-Butadiene	<43.2	<43.2	# ppbv	<95.4	<95.3	# ug/m ³
106-46-7	1,4-Dichlorobenzene	<43.2	<43.2	3 # ppbv	<260	<259	3 # ug/m ³
123-91-1	1,4-Dioxane	<43.2	<43.2	ppbv	<155	<155	ug/m ³
71-23-8	1-Propanol	<43.2	<43.2	ppbv	<106	<106	ug/m ³
78-93-3	2-Butanone (MEK)	<43.2	<43.2	# ppbv	<127	<127	# ug/m ³
591-78-6	2-Hexanone	<43.2	<43.2	# ppbv	<177	<176	# ug/m ³
107-87-9	2-Pentanone	<43.2	<43.2	ppbv	<152	<152	ug/m ³
589-38-8	3-Hexanone	<43.2	281	ppbv	<177	1150	ug/m ³
96-22-0	3-Pentanone	<43.2	<43.2	ppbv	<152	<152	ug/m ³
108-10-1	4-Methyl-2-pentanone	<43.2	<43.2	# ppbv	<177	<176	# ug/m ³
67-64-1 & 123-38-6	Acetone + Propanal	<86.3	<86.3	# ppbv	<205	<205	# ug/m ³
75-05-8	Acetonitrile	<43.2	<43.2	ppbv	<72.4	<72.4	ug/m ³
107-02-8	Acrolein	<43.2	<43.2	# ppbv	<98.9	<98.8	# ug/m ³
71-43-2	Benzene	<37.4	<37.4	# ppbv	<119	<119	# ug/m ³
100-44-7	Benzyl Chloride	<43.2	<43.2	3 # ppbv	<224	<224	3 # ug/m ³
75-27-4	Bromodichloromethane	<43.2	<43.2	# ppbv	<290	<289	# ug/m ³
75-25-2	Bromoform	<43.2	<43.2	# ppbv	<447	<447	# ug/m ³
74-83-9	Bromomethane	<43.2	<43.2	3 # ppbv	<168	<168	3 # ug/m ³
123-72-8	Butanal	<43.2	<43.2	ppbv	<127	<127	ug/m ³
75-15-0	Carbon Disulfide	<43.2	375	# ppbv	<134	1170	# ug/m ³
56-23-5	Carbon Tetrachloride	<43.2	<43.2	# ppbv	<272	<272	# ug/m ³
108-90-7	Chlorobenzene	<43.2	<43.2	# ppbv	<200	<199	# ug/m ³
75-00-3	Chloroethane	<43.2	<43.2	# ppbv	<115	<115	# ug/m ³
67-66-3	Chloroform	<43.2	<43.2	# ppbv	<210	<210	# ug/m ³
74-87-3	Chloromethane	<43.2	<43.2	# ppbv	<88.3	<88.2	# ug/m ³
156-59-2	cis-1,2-Dichloroethene	<43.2	<43.2	# ppbv	<171	<171	# ug/m ³
10061-01-5	cis-1,3-Dichloropropene	<43.2	<43.2	# ppbv	<196	<196	# ug/m ³
110-82-7	Cyclohexane	<43.2	382	# ppbv	<148	1310	# ug/m ³
75-71-8	Dichlorodifluoromethane	<43.2	<43.2	# ppbv	<214	<214	# ug/m ³
75-45-6	Difluorochloromethane	<43.2	<43.2	ppbv	<152	<152	ug/m ³
100-41-4	Ethylbenzene	<43.2	113	# ppbv	<187	490	# ug/m ³
87-68-3	Hexachlorobutadiene	<43.2	<43.2	ppbv	<459	<459	ug/m ³



CERTIFICATE OF ANALYSIS

Validated

SDG: 230705-89
Client Ref.: GWPR5475 2 - 6 Seagull Lan

Report Number: 696276
Location: 2 - 6 Seagull Lane, Emsworth PO10 7QH

Superseded Report:

Sample Number 28276297

Sample ID WS1

Depth 0.00 - 0.00

Sampled Date 03/07/2023 00:00:0

- ISO17025 accredited.

M - mCERTS accredited.

1-4*§@ - Sample deviation (see appendix)

Method TM330

Determination of VOC's in atmospheric, sub-slab and soil gas samples

Canister No. 92

Sample Volume (ml) 5

Dispatch pressure (psia) -0.06 Initial pressure (psia) 13.39 Final pressure (psia) 19.26 Dilution 1.4383868559

CAS Number	Compound	LOD	Result	Units	LOD	Result	Units
66-25-1	Hexanal	<43.2	<43.2	# ppbv	<177	<176	# ug/m ³
110-54-3	Hexane	<43.2	153	# ppbv	<152	538	# ug/m ³
74-88-4	Iodomethane	<43.2	<43.2	ppbv	<251	<251	ug/m ³
115-11-7	Isobutene	<43.2	2340	ppbv	<98.9	5360	ug/m ³
78-79-5	Isoprene	<43.2	<43.2	ppbv	<120	<120	ug/m ³
108-38-3 & 106-42-3	m/p-Xylene	<86.3	110	# ppbv	<374	478	# ug/m ³
78-85-3	Methylacrolein	<43.2	<43.2	ppbv	<124	<124	ug/m ³
75-09-2	Methylene Chloride	<43.2	<43.2	# ppbv	<150	<150	# ug/m ³
1634-04-4	MTBE	<43.2	<43.2	# ppbv	<155	<155	# ug/m ³
91-20-3	Naphthalene	<43.2	<43.2	ppbv	<226	<226	ug/m ³
95-47-6	o-Xylene	<43.2	50.5	# ppbv	<187	219	# ug/m ³
110-62-3	Pentanal	<43.2	<43.2	ppbv	<152	<152	ug/m ³
109-66-0	Pentane	<43.2	369	ppbv	<127	1090	ug/m ³
100-42-5	Styrene	<43.2	727	# ppbv	<184	3090	# ug/m ³
127-18-4	Tetrachloroethene	<43.2	<43.2	# ppbv	<293	<293	# ug/m ³
TIC's		See Attached					
108-88-3	Toluene	<43.2	64.3	# ppbv	<163	242	# ug/m ³
156-60-5	trans-1,2-Dichloroethene	<43.2	<43.2	# ppbv	<171	<171	# ug/m ³
1006-02-6	trans-1,3-Dichloropropene	<43.2	<43.2	# ppbv	<196	<196	# ug/m ³
79-01-6	Trichloroethene	<43.2	<43.2	# ppbv	<231	<231	# ug/m ³
75-69-4	Trichlorofluoromethane	<43.2	<43.2	# ppbv	<242	<242	# ug/m ³
26523-64-8	Trichlorotrifluoroethane	<43.2	<43.2	# ppbv	<330	<330	# ug/m ³
108-05-4	Vinyl Acetate	<43.2	<43.2	# ppbv	<152	<152	# ug/m ³
75-01-4	Vinyl Chloride	<43.2	<43.2	# ppbv	<110	<109	# ug/m ³



CERTIFICATE OF ANALYSIS

Validated

SDG: 230705-89
Client Ref.: GWPR5475 2 - 6 Seagull Lan

Report Number: 696276
Location: 2 - 6 Seagull Lane, Emsworth PO10 7QH

Superseded Report:

Sample Number 28276301

Sample ID WS3

Depth 0.00 - 0.00

Sampled Date 03/07/2023 00:00:0

- ISO17025 accredited. M - mCERTS accredited. 1-4*§@ - Sample deviation (see appendix)

Method TM330 Determination of VOC's in atmospheric, sub-slab and soil gas samples

Canister No. 331

Sample Volume (ml) 160 Dispatch pressure (psia) -0.10 Initial pressure (psia) 12.54 Final pressure (psia) 18.92 Dilution 1.5087719298

CAS Number	Compound	LOD	Result	Units	LOD	Result	Units
71-55-6	1,1,1-Trichloroethane	<1.41	<1.41	# ppbv	<7.67	<7.69	# ug/m ³
79-34-5	1,1,2,2-Tetrachloroethane	<1.41	<1.41	3 # ppbv	<9.69	<9.72	3 # ug/m ³
79-00-5	1,1,2-Trichloroethane	<1.41	<1.41	# ppbv	<7.67	<7.69	# ug/m ³
75-34-3	1,1-Dichloroethane	<1.41	<1.41	# ppbv	<5.71	<5.73	# ug/m ³
75-35-4	1,1-Dichloroethene	<1.41	<1.41	# ppbv	<5.59	<5.61	# ug/m ³
526-73-8	1,2,3-Trimethylbenzene	<1.41	<1.41	# ppbv	<6.92	<6.94	# ug/m ³
120-82-1	1,2,4-Trichlorobenzene	<1.41	<1.41	3 # ppbv	<10.4	<10.5	3 # ug/m ³
95-63-6	1,2,4-Trimethylbenzene	<1.41	1.50	3 # ppbv	<6.92	7.38	3 # ug/m ³
106-93-4	1,2-Dibromoethane	<1.41	<1.41	# ppbv	<10.8	<10.9	# ug/m ³
95-50-1	1,2-Dichlorobenzene	<1.41	<1.41	3 # ppbv	<8.48	<8.50	3 # ug/m ³
107-06-2	1,2-Dichloroethane	<1.41	<1.41	# ppbv	<5.71	<5.73	# ug/m ³
78-87-5	1,2-Dichloropropane	<1.41	<1.41	# ppbv	<6.52	<6.54	# ug/m ³
76-14-2	1,2-Dichlorotetrafluoroethane	<1.41	<1.41	# ppbv	<9.86	<9.89	# ug/m ³
108-67-8	1,3,5-Trimethylbenzene	<1.41	<1.41	3 # ppbv	<6.92	<6.94	3 # ug/m ³
106-99-0	1,3-Butadiene	<1.41	<1.41	# ppbv	<3.11	<3.12	# ug/m ³
106-46-7	1,4-Dichlorobenzene	<1.41	<1.41	3 # ppbv	<8.48	<8.50	3 # ug/m ³
123-91-1	1,4-Dioxane	<1.41	<1.41	ppbv	<5.07	<5.09	ug/m ³
71-23-8	1-Propanol	<1.41	<1.41	ppbv	<3.46	<3.47	ug/m ³
78-93-3	2-Butanone (MEK)	<1.41	<1.41	# ppbv	<4.15	<4.17	# ug/m ³
591-78-6	2-Hexanone	<1.41	<1.41	# ppbv	<5.77	<5.79	# ug/m ³
107-87-9	2-Pentanone	<1.41	<1.41	ppbv	<4.96	<4.98	ug/m ³
589-38-8	3-Hexanone	<1.41	<1.41	ppbv	<5.77	<5.79	ug/m ³
96-22-0	3-Pentanone	<1.41	<1.41	ppbv	<4.96	<4.98	ug/m ³
108-10-1	4-Methyl-2-pentanone	<1.41	<1.41	# ppbv	<5.77	<5.79	# ug/m ³
67-64-1 & 123-38-6	Acetone + Propanal	<2.83	23.1	# ppbv	<6.71	54.8	# ug/m ³
75-05-8	Acetonitrile	<1.41	<1.41	ppbv	<2.36	<2.37	ug/m ³
107-02-8	Acrolein	<1.41	<1.41	# ppbv	<3.23	<3.24	# ug/m ³
71-43-2	Benzene	<1.23	1.56	# ppbv	<3.92	4.99	# ug/m ³
100-44-7	Benzyl Chloride	<1.41	<1.41	3 # ppbv	<7.32	<7.35	3 # ug/m ³
75-27-4	Bromodichloromethane	<1.41	<1.41	# ppbv	<9.46	<9.49	# ug/m ³
75-25-2	Bromoform	<1.41	<1.41	# ppbv	<14.6	<14.6	# ug/m ³
74-83-9	Bromomethane	<1.41	<1.41	3 # ppbv	<5.48	<5.50	3 # ug/m ³
123-72-8	Butanal	<1.41	<1.41	ppbv	<4.15	<4.17	ug/m ³
75-15-0	Carbon Disulfide	<1.41	82.2	# ppbv	<4.38	256	# ug/m ³
56-23-5	Carbon Tetrachloride	<1.41	<1.41	# ppbv	<8.88	<8.91	# ug/m ³
108-90-7	Chlorobenzene	<1.41	<1.41	3 # ppbv	<6.52	<6.54	3 # ug/m ³
75-00-3	Chloroethane	<1.41	<1.41	# ppbv	<3.75	<3.76	# ug/m ³
67-66-3	Chloroform	<1.41	<1.41	# ppbv	<6.86	<6.88	# ug/m ³
74-87-3	Chloromethane	<1.41	<1.41	# ppbv	<2.88	<2.89	# ug/m ³
156-59-2	cis-1,2-Dichloroethene	<1.41	<1.41	# ppbv	<5.59	<5.61	# ug/m ³
10061-01-5	cis-1,3-Dichloropropene	<1.41	<1.41	# ppbv	<6.40	<6.42	# ug/m ³
110-82-7	Cyclohexane	<1.41	<1.41	# ppbv	<4.84	<4.86	# ug/m ³
75-71-8	Dichlorodifluoromethane	<1.41	<1.41	# ppbv	<6.98	<7.00	# ug/m ³
75-45-6	Difluorochloromethane	<1.41	<1.41	ppbv	<4.96	<4.98	ug/m ³
100-41-4	Ethylbenzene	<1.41	<1.41	3 # ppbv	<6.11	<6.13	3 # ug/m ³
87-68-3	Hexachlorobutadiene	<1.41	<1.41	ppbv	<15.0	<15.0	ug/m ³



CERTIFICATE OF ANALYSIS

Validated

SDG: 230705-89
Client Ref.: GWPR5475 2 - 6 Seagull Lan

Report Number: 696276
Location: 2 - 6 Seagull Lane, Emsworth PO10 7QH

Superseded Report:

Sample Number 28276301

Sample ID WS3

Depth 0.00 - 0.00

Sampled Date 03/07/2023 00:00:0

- ISO17025 accredited. M - mCERTS accredited. 1-4*§@ - Sample deviation (see appendix)

Method TM330 Determination of VOC's in atmospheric, sub-slab and soil gas samples

Canister No. 331

Sample Volume (ml) 160 Dispatch pressure (psia) -0.10 Initial pressure (psia) 12.54 Final pressure (psia) 18.92 Dilution 1.5087719298

CAS Number	Compound	LOD	Result	Units	LOD	Result	Units
66-25-1	Hexanal	<1.41	<1.41	# ppbv	<5.77	<5.79	# ug/m ³
110-54-3	Hexane	<1.41	<1.41	# ppbv	<4.96	<4.98	# ug/m ³
74-88-4	Iodomethane	<1.41	<1.41	ppbv	<8.19	<8.21	ug/m ³
115-11-7	Isobutene	<1.41	<1.41	ppbv	<3.23	<3.24	ug/m ³
78-79-5	Isoprene	<1.41	<1.41	ppbv	<3.92	<3.93	ug/m ³
108-38-3 & 106-42-3	m/p-Xylene	<2.83	<2.83	# ppbv	<12.3	<12.3	# ug/m ³
78-85-3	Methylacrolein	<1.41	<1.41	ppbv	<4.04	<4.05	ug/m ³
75-09-2	Methylene Chloride	<1.41	<1.41	# ppbv	<4.90	<4.92	# ug/m ³
1634-04-4	MTBE	<1.41	<1.41	# ppbv	<5.07	<5.09	# ug/m ³
91-20-3	Naphthalene	<1.41	2.43	ppbv	<7.38	12.7	ug/m ³
95-47-6	o-Xylene	<1.41	<1.41	# ppbv	<6.11	<6.13	# ug/m ³
110-62-3	Pentanal	<1.41	<1.41	ppbv	<4.96	<4.98	ug/m ³
109-66-0	Pentane	<1.41	<1.41	ppbv	<4.15	<4.17	ug/m ³
100-42-5	Styrene	<1.41	4.91	3 # ppbv	<6.00	20.9	3 # ug/m ³
127-18-4	Tetrachloroethene	<1.41	<1.41	3 # ppbv	<9.57	<9.60	3 # ug/m ³
TIC's		See Attached					
108-88-3	Toluene	<1.41	1.70	# ppbv	<5.31	6.40	# ug/m ³
156-60-5	trans-1,2-Dichloroethene	<1.41	<1.41	# ppbv	<5.59	<5.61	# ug/m ³
1006-02-6	trans-1,3-Dichloropropene	<1.41	<1.41	# ppbv	<6.40	<6.42	# ug/m ³
79-01-6	Trichloroethene	<1.41	<1.41	# ppbv	<7.55	<7.58	# ug/m ³
75-69-4	Trichlorofluoromethane	<1.41	<1.41	# ppbv	<7.90	<7.93	# ug/m ³
26523-64-8	Trichlorotrifluoroethane	<1.41	<1.41	# ppbv	<10.8	<10.8	# ug/m ³
108-05-4	Vinyl Acetate	<1.41	<1.41	# ppbv	<4.96	<4.98	# ug/m ³
75-01-4	Vinyl Chloride	<1.41	<1.41	# ppbv	<3.58	<3.59	# ug/m ³



CERTIFICATE OF ANALYSIS

Validated

SDG: 230705-89
Client Ref.: GWPR5475 2 - 6 Seagull Lan

Report Number: 696276
Location: 2 - 6 Seagull Lane, Emsworth PO10 7QH

Superseded Report:

Sample Number 28276304

Sample ID WS5

Depth 0.00 - 0.00

Sampled Date 03/07/2023 00:00:0

- ISO17025 accredited. M - mCERTS accredited. 1-4*§@ - Sample deviation (see appendix)

Method TM330 Determination of VOC's in atmospheric, sub-slab and soil gas samples

Canister No. 131

Sample Volume (ml) 160 Dispatch pressure (psia) -0.09 Initial pressure (psia) 13.18 Final pressure (psia) 19.04 Dilution 1.4446130501

CAS Number	Compound	LOD	Result	Units	LOD	Result	Units
71-55-6	1,1,1-Trichloroethane	<1.35	<1.35	# ppbv	<7.34	<7.37	# ug/m ³
79-34-5	1,1,2,2-Tetrachloroethane	<1.35	<1.35	3 # ppbv	<9.28	<9.31	3 # ug/m ³
79-00-5	1,1,2-Trichloroethane	<1.35	<1.35	# ppbv	<7.34	<7.37	# ug/m ³
75-34-3	1,1-Dichloroethane	<1.35	1.77	# ppbv	<5.47	7.17	# ug/m ³
75-35-4	1,1-Dichloroethene	<1.35	<1.35	# ppbv	<5.36	<5.37	# ug/m ³
526-73-8	1,2,3-Trimethylbenzene	<1.35	<1.35	# ppbv	<6.63	<6.65	# ug/m ³
120-82-1	1,2,4-Trichlorobenzene	<1.35	<1.35	3 # ppbv	<9.99	<10.0	3 # ug/m ³
95-63-6	1,2,4-Trimethylbenzene	<1.35	<1.35	3 # ppbv	<6.63	<6.65	3 # ug/m ³
106-93-4	1,2-Dibromoethane	<1.35	<1.35	# ppbv	<10.4	<10.4	# ug/m ³
95-50-1	1,2-Dichlorobenzene	<1.35	<1.35	3 # ppbv	<8.12	<8.14	3 # ug/m ³
107-06-2	1,2-Dichloroethane	<1.35	<1.35	# ppbv	<5.47	<5.48	# ug/m ³
78-87-5	1,2-Dichloropropane	<1.35	<1.35	# ppbv	<6.24	<6.26	# ug/m ³
76-14-2	1,2-Dichlorotetrafluoroethane	<1.35	<1.35	# ppbv	<9.44	<9.47	# ug/m ³
108-67-8	1,3,5-Trimethylbenzene	<1.35	<1.35	3 # ppbv	<6.63	<6.65	3 # ug/m ³
106-99-0	1,3-Butadiene	<1.35	<1.35	# ppbv	<2.98	<2.99	# ug/m ³
106-46-7	1,4-Dichlorobenzene	<1.35	<1.35	3 # ppbv	<8.12	<8.14	3 # ug/m ³
123-91-1	1,4-Dioxane	<1.35	<1.35	ppbv	<4.86	<4.87	ug/m ³
71-23-8	1-Propanol	<1.35	<1.35	ppbv	<3.31	<3.32	ug/m ³
78-93-3	2-Butanone (MEK)	<1.35	<1.35	# ppbv	<3.98	<3.99	# ug/m ³
591-78-6	2-Hexanone	<1.35	<1.35	# ppbv	<5.52	<5.54	# ug/m ³
107-87-9	2-Pentanone	<1.35	<1.35	ppbv	<4.75	<4.76	ug/m ³
589-38-8	3-Hexanone	<1.35	<1.35	ppbv	<5.52	<5.54	ug/m ³
96-22-0	3-Pentanone	<1.35	<1.35	ppbv	<4.75	<4.76	ug/m ³
108-10-1	4-Methyl-2-pentanone	<1.35	<1.35	# ppbv	<5.52	<5.54	# ug/m ³
67-64-1 & 123-38-6	Acetone + Propanal	<2.71	16.4	# ppbv	<6.43	38.8	# ug/m ³
75-05-8	Acetonitrile	<1.35	<1.35	ppbv	<2.26	<2.27	ug/m ³
107-02-8	Acrolein	<1.35	<1.35	# ppbv	<3.09	<3.10	# ug/m ³
71-43-2	Benzene	<1.17	2.77	# ppbv	<3.73	8.82	# ug/m ³
100-44-7	Benzyl Chloride	<1.35	<1.35	3 # ppbv	<7.01	<7.03	3 # ug/m ³
75-27-4	Bromodichloromethane	<1.35	<1.35	# ppbv	<9.06	<9.08	# ug/m ³
75-25-2	Bromoform	<1.35	<1.35	# ppbv	<14.0	<14.0	# ug/m ³
74-83-9	Bromomethane	<1.35	<1.35	3 # ppbv	<5.25	<5.26	3 # ug/m ³
123-72-8	Butanal	<1.35	<1.35	ppbv	<3.98	<3.99	ug/m ³
75-15-0	Carbon Disulfide	<43.3	106	# ppbv	<135	329	# ug/m ³
56-23-5	Carbon Tetrachloride	<1.35	<1.35	# ppbv	<8.50	<8.53	# ug/m ³
108-90-7	Chlorobenzene	<1.35	<1.35	3 # ppbv	<6.24	<6.26	3 # ug/m ³
75-00-3	Chloroethane	<1.35	<1.35	# ppbv	<3.59	<3.60	# ug/m ³
67-66-3	Chloroform	<1.35	<1.35	# ppbv	<6.57	<6.59	# ug/m ³
74-87-3	Chloromethane	<1.35	<1.35	# ppbv	<2.76	<2.77	# ug/m ³
156-59-2	cis-1,2-Dichloroethene	<1.35	<1.35	# ppbv	<5.36	<5.37	# ug/m ³
10061-01-5	cis-1,3-Dichloropropene	<1.35	<1.35	# ppbv	<6.13	<6.15	# ug/m ³
110-82-7	Cyclohexane	<1.35	<1.35	# ppbv	<4.64	<4.65	# ug/m ³
75-71-8	Dichlorodifluoromethane	<1.35	<1.35	# ppbv	<6.68	<6.70	# ug/m ³
75-45-6	Difluorochloromethane	<1.35	<1.35	ppbv	<4.75	<4.76	ug/m ³
100-41-4	Ethylbenzene	<1.35	<1.35	3 # ppbv	<5.85	<5.87	3 # ug/m ³
87-68-3	Hexachlorobutadiene	<1.35	<1.35	ppbv	<14.4	<14.4	ug/m ³



CERTIFICATE OF ANALYSIS

Validated

SDG: 230705-89
Client Ref.: GWPR5475 2 - 6 Seagull Lan

Report Number: 696276
Location: 2 - 6 Seagull Lane, Emsworth PO10 7QH

Superseded Report:

Sample Number 28276304

Sample ID WS5

Depth 0.00 - 0.00

Sampled Date 03/07/2023 00:00:00

- ISO17025 accredited. M - mCERTS accredited. 1-4*§@ - Sample deviation (see appendix)

Method TM330 Determination of VOC's in atmospheric, sub-slab and soil gas samples

Canister No. 131

Sample Volume (ml) 160 Dispatch pressure (psia) -0.09 Initial pressure (psia) 13.18 Final pressure (psia) 19.04 Dilution 1.4446130501

CAS Number	Compound	LOD	Result	Units	LOD	Result	Units
66-25-1	Hexanal	<1.35	<1.35	# ppbv	<5.52	<5.54	# ug/m ³
110-54-3	Hexane	<1.35	4.95	# ppbv	<4.75	17.4	# ug/m ³
74-88-4	Iodomethane	<1.35	<1.35	ppbv	<7.84	<7.87	ug/m ³
115-11-7	Isobutene	<1.35	18.0	ppbv	<3.09	41.3	ug/m ³
78-79-5	Isoprene	<1.35	<1.35	ppbv	<3.75	<3.77	ug/m ³
108-38-3 & 106-42-3	m/p-Xylene	<2.71	3.68	# ppbv	<11.7	16.0	# ug/m ³
78-85-3	Methylacrolein	<1.35	<1.35	ppbv	<3.87	<3.88	ug/m ³
75-09-2	Methylene Chloride	<1.35	<1.35	# ppbv	<4.69	<4.71	# ug/m ³
1634-04-4	MTBE	<1.35	<1.35	# ppbv	<4.86	<4.87	# ug/m ³
91-20-3	Naphthalene	<1.35	<1.35	ppbv	<7.07	<7.09	ug/m ³
95-47-6	o-Xylene	<1.35	1.67	# ppbv	<5.85	7.25	# ug/m ³
110-62-3	Pentanal	<1.35	<1.35	ppbv	<4.75	<4.76	ug/m ³
109-66-0	Pentane	<1.35	1.44	ppbv	<3.98	4.23	ug/m ³
100-42-5	Styrene	<1.35	3.70	3 # ppbv	<5.74	15.7	3 # ug/m ³
127-18-4	Tetrachloroethene	<1.35	<1.35	3 # ppbv	<9.17	<9.20	3 # ug/m ³
TIC's		See Attached					
108-88-3	Toluene	<1.35	4.65	# ppbv	<5.08	17.5	# ug/m ³
156-60-5	trans-1,2-Dichloroethene	<1.35	<1.35	# ppbv	<5.36	<5.37	# ug/m ³
1006-02-6	trans-1,3-Dichloropropene	<1.35	<1.35	# ppbv	<6.13	<6.15	# ug/m ³
79-01-6	Trichloroethene	<1.35	1.73	# ppbv	<7.23	9.26	# ug/m ³
75-69-4	Trichlorofluoromethane	<1.35	<1.35	# ppbv	<7.56	<7.59	# ug/m ³
26523-64-8	Trichlorotrifluoroethane	<1.35	<1.35	# ppbv	<10.3	<10.4	# ug/m ³
108-05-4	Vinyl Acetate	<1.35	<1.35	# ppbv	<4.75	<4.76	# ug/m ³
75-01-4	Vinyl Chloride	<1.35	<1.35	# ppbv	<3.42	<3.43	# ug/m ³



CERTIFICATE OF ANALYSIS

Validated

SDG: 230705-89 Report Number: 696276 Superseded Report:
Client Ref.: GWPR5475 2 - 6 Seagull Lan Location: 2 - 6 Seagull Lane, Emsworth PO10 7QH

Table of Results - Appendix

Method No	Description
TM053	Determination of Bulk Gas Composition
TM335	TPH in atmospheric, sub-slab and soil gas samples
TM216	The Determination of Odourant Compounds in Gases by Gas Chromatography with PFPD Detection
TM330	Determination Of Volatile Organic Compounds (VOCs) In Air Collected In Specially-Prepared Canisters And Analyzed By Gas Chromatography/Mass Spectrometry (GC/MS)

NA = not applicable.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden (Method codes TM).



CERTIFICATE OF ANALYSIS

Validated

SDG: 230705-89

Report Number: 696276

Superseded Report:

Client Ref.: GWPR5475 2 - 6 Seagull Lan

Location: 2 - 6 Seagull Lane, Emsworth PO10 7QH

Test Completion Dates

Lab Sample No(s)
Customer Sample Ref.

AGS Ref.

Depth

Type

28276297	28276301	28276304
WS1	WS3	WS5
0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
Gas (G)	Gas (G)	Gas (G)
Bulk Gas	13-Jul-2023	13-Jul-2023
Odourant Gas Analysis (G)	13-Jul-2023	13-Jul-2023
TPH in Gas samples	11-Jul-2023	11-Jul-2023
VOC's	11-Jul-2023	11-Jul-2023



VOC TENTATIVELY IDENTIFIED COMPOUNDS REPORT

JOB NUMBER:	230705-89
SAMPLE IDENTITY:	WS1
DATE REPORTED:	10/07/2023
ANALYST:	dj

TENTATIVE COMPOUND IDENTIFICATION		RESULT (ppbv)	RESULT (µg/m3)
1	isobutane	1692	4018
2	ethanol	3345	6302
3	3-methyl-pentane	1262	4446
4	methyl-cyclohexane	2439	9789
5	1,2,4-trimethyl-cyclopentane	1057	4846
6	1,2-dimethyl-cyclohexane	753	3451
7	mixed hydrocarbons	755	
8	2,6-dimethyl-octane	1033	6006
9	4-methyl-decane	437	2793
10	trans-decahydro-naphthalene	314	1773.5

Tentatively Identified Compounds (TICs) are non-target peaks in the VOC air analysis. All non-target peaks detected with a concentration above the LoD of 10ppbv are subjected to a mass spectral library search. Non-target peaks with a **Library Search Confidence of >75%** are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as **“Mixed Hydrocarbons”**. Non-target compounds identified from the scan data are semi-quantified relative to one of the internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as a Tentatively Identified Compound (TIC). TICs are outside the scope of our UKAS accreditation.



VOC TENTATIVELY IDENTIFIED COMPOUNDS REPORT

JOB NUMBER:	230705-89
SAMPLE IDENTITY:	WS3
DATE REPORTED:	10/07/2023
ANALYST:	dj

TENTATIVE COMPOUND IDENTIFICATION		RESULT (ppbv)	RESULT (µg/m3)
1	propane	960	1730
2	isobutane	361	857
3	butane	48	113
4	mixed hydrocarbons	63	
5	1-butanol	12	36
6	1-methoxy-2-propanol	71	263
7	undecane	21	137
8	mixed hydrocarbons	25	
9	dodecane	20	138
10			

Tentatively Identified Compounds (TICs) are non-target peaks in the VOC air analysis. All non-target peaks detected with a concentration above the LoD of 10ppbv are subjected to a mass spectral library search. Non-target peaks with a **Library Search Confidence of >75%** are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as **“Mixed Hydrocarbons”**. Non-target compounds identified from the scan data are semi-quantified relative to one of the internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as a Tentatively Identified Compound (TIC). TICs are outside the scope of our UKAS accreditation.



VOC TENTATIVELY IDENTIFIED COMPOUNDS REPORT

JOB NUMBER:	230705-89
SAMPLE IDENTITY:	WS5
DATE REPORTED:	10/07/2023
ANALYST:	dj

TENTATIVE COMPOUND IDENTIFICATION		RESULT (ppbv)	RESULT (µg/m3)
1	2-methyl-furan	17	58
2	1,2-ethanediol	18	45
3	mixed hydrocarbons	57	
4	trans-decahydro-naphthalene	17	97
5	dodecane	13	94
6			
7			
8			
9			
10			

Tentatively Identified Compounds (TICs) are non-target peaks in the VOC air analysis. All non-target peaks detected with a concentration above the LoD of 10ppbv are subjected to a mass spectral library search. Non-target peaks with a **Library Search Confidence of >75%** are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as **“Mixed Hydrocarbons”**. Non-target compounds identified from the scan data are semi-quantified relative to one of the internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as a Tentatively Identified Compound (TIC). TICs are outside the scope of our UKAS accreditation.



CERTIFICATE OF ANALYSIS

SDG: 230705-89

Report Number: 696276

Superseded Report:

Client Ref: GWPR5475 2 - 6 Seagull

Location: 2 - 6 Seagull Lane, Emsworth PO10 7QH

Appendix

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH₄ by the BRE method, VOC TICs and SVOC TICs.

2. If sufficient sample is received a sub sample will be retained free of charge for 15 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

3. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

4. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

5. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

6. NDP - No determination possible due to insufficient/unsuitable sample.

7. Results relate only to the items tested.

8. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

9. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

10. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

11. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

12. For dried and crushed preparations of soils volatile loss may occur e.g volatile mercury

13. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

14. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

15. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

16. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

17 Data retention. All records, communications and reports pertaining to the analysis are archived for seven years from the date of issue of the final report.

General

18. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

19. Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
4	Matrix interference
♦	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to late arrival of instructions or samples
§	Sampled on date not provided

20. Asbestos

When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2021), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials and soils are obtained from supplied bulk materials and soils which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2021).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining.

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Respirable Fibres

Respirable fibres are defined as fibres of <3 µm diameter, longer than 5 µm and with aspect ratios of at least 3:1 that can be inhaled into the lower regions of the lung and are generally acknowledged to be most important predictor of hazard and risk for cancers of the lung.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.



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Website: www.alsenvironmental.co.uk

Ground and Water Ltd
Head Office
2 The Long Barn
Norton Farm, Selborne Road
Alton
Hampshire
GU34 3NB

Attention: Alex Stratford

CERTIFICATE OF ANALYSIS

Date of report Generation:	21 July 2023
Customer:	Ground and Water Ltd
Sample Delivery Group (SDG):	230718-37
Your Reference:	GWPR5475 2 - 6 Seagull Lane, Emsworth, PO10 7QH
Location:	2 - 6 Seagull Lane, Emsworth PO10 7QH
Report No:	697246
Order Number:	GWPR5475

We received 3 samples on Friday July 14, 2023 and 3 of these samples were scheduled for analysis which was completed on Friday July 21, 2023. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden.

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.

Incorrect sampling dates and/or sample information will affect the validity of results.

The customer is not permitted to reproduce this report except in full without the approval of the laboratory.

Approved By:

Sonia McWhan

Operations Manager



CERTIFICATE OF ANALYSIS

Validated

SDG: 230718-37

Report Number: 697246

Superseded Report:

Client Ref.: GWPR5475 2 - 6 Seagull Lan

Location: 2 - 6 Seagull Lane, Emsworth PO10 7QH

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
28344040	WS1		0.00 - 0.00	13/07/2023
28344048	WS3		0.00 - 0.00	13/07/2023
28344055	WS5		0.00 - 0.00	13/07/2023

Only received samples which have had analysis scheduled will be shown on the following pages.



CERTIFICATE OF ANALYSIS

Validated

SDG: 230718-37

Report Number: 697246

Superseded Report:

Client Ref.: GWPR5475 2 - 6 Seagull Lan

Location: 2 - 6 Seagull Lane, Emsworth PO10 7QH

Results Legend



Test



No Determination Possible

Sample Types -

S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water
Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

Lab Sample No(s)

28344055
28344048
28344040

Customer
Sample Reference

WS5
WS3
WS1

AGS Reference

Depth (m)

0.00 - 0.00
0.00 - 0.00
0.00 - 0.00

Container

Vial (ALE297)
Vial (ALE297)
Vial (ALE297)

Sample Type

GW
GW
GW

Determination of Dissolved Gases

All

NDPs: 0
Tests: 3

X X X



CERTIFICATE OF ANALYSIS

Validated

SDG: 230718-37 Report Number: 697246 Superseded Report:
Client Ref.: GWPR5475 2 - 6 Seagull Lan Location: 2 - 6 Seagull Lane, Emsworth PO10 7QH

Table of Results - Appendix

Method No	Description
TM223	Determination of Dissolved C1-7 Hydrocarbon gases in waters

NA = not applicable.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden (Method codes TM).



CERTIFICATE OF ANALYSIS

Validated

SDG: 230718-37

Report Number: 697246

Superseded Report:

Client Ref.: GWPR5475 2 - 6 Seagull Lan

Location: 2 - 6 Seagull Lane, Emsworth PO10 7QH

Test Completion Dates

Lab Sample No(s)	28344040	28344048	28344055
Customer Sample Ref.	WS1	WS3	WS5
AGS Ref.			
Depth	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
Type	Ground Water	Ground Water	Ground Water
Determination of Dissolved Gases	21-Jul-2023	21-Jul-2023	21-Jul-2023



CERTIFICATE OF ANALYSIS

SDG: 230718-37

Report Number: 697246

Superseded Report:

Client Ref: GWPR5475 2 - 6 Seagull

Location: 2 - 6 Seagull Lane, Emsworth PO10 7QH

Appendix

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH₄ by the BRE method, VOC TICs and SVOC TICs.

2. If sufficient sample is received a sub sample will be retained free of charge for 15 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

3. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

4. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

5. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

6. NDP - No determination possible due to insufficient/unsuitable sample.

7. Results relate only to the items tested.

8. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

9. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

10. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

11. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

12. For dried and crushed preparations of soils volatile loss may occur e.g volatile mercury

13. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

14. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

15. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

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Identification of Asbestos in Bulk Materials & Soils

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Asbestos Type	Common Name
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Amosite	Brown Asbestos
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Fibrous Actinolite	-
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Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Respirable Fibres

Respirable fibres are defined as fibres of <3 µm diameter, longer than 5 µm and with aspect ratios of at least 3:1 that can be inhaled into the lower regions of the lung and are generally acknowledged to be most important predictor of hazard and risk for cancers of the lung.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

APPENDIX L:

Vapour

Assessment

Methodology

Derivation of Vapour Phase Generic Assessment Criteria for Volatile Organic Compounds

Background

This document provides background and methodology for the calculation of Generic Assessment Criteria (GAC) for various Volatile Organic Compounds (VOCs) when directly measured in their vapour phases within the soil gas, from here in referred to as vGAC. This is based upon the framework for assessing the risk posed to a site's receptors outlined within CIRIA C682^[1].

The development of these vGAC has been driven by the limitations in using the results of soil or groundwater testing, compared to published Soil Guideline Values (SGV) or calculated GAC, for assessing the risk posed to a development and its end-users by VOCs within the soils underlying the site. The most notable of these limitations arises from the volatile nature of the contaminants of concern, resulting in the loss of VOC to the atmosphere during sampling. To counter this, there is a need for assessment criteria that can be applied to direct measurements of the level of VOCs within the soil gas, for example via sampling of the soil gas from ground-gas monitoring standpipes installed onsite. Further guidance on investigating VOCs in soil gas can be found in CIRIA C682, Section 6.4^[1], which should be followed during any sampling of soil gas.

It should be noted that it is not considered necessary to undertake VOC testing of soil gas on every site. Development of the Conceptual Site Model (CSM) should evaluate the potential risk to the site's receptors posed by VOCs and determine on a site-by-site basis whether soil gas VOC testing is an appropriate assessment tool. Factors that should be considered within this assessment include the presence and scale of potential VOC sources, presence or lack of visual/olfactory evidence of VOC contamination during intrusive investigations and the presence of VOCs above laboratory detection limits within other forms of chemical testing undertaken on the site (within soil or groundwater).

Method

Ground and Water Limited have chosen to calculate vGAC using the J&E method^[2] as per discussion within CIRIA C682 Section 7.4.3^[1] and recommendation by Evans *et al* (2002)^[3]. The basis of this methodology can be seen outlined within the *Updated technical background to the CLEA model (SR3), 2009, (section 10.3, equation 10.4)*^[4]. The J&E method describes the attenuation factor (α), which is a quantitative representation of the reduction of VOC concentration as it migrates from soil gas, present directly below the site, to the air indoors within a building onsite. The attenuation factor can be calculated as outlined overleaf:

$$\alpha = \frac{\left[\frac{D_{eff} A_B}{Q_b L_T} \exp \left(\frac{Q_s L_{crack}}{D_{crack} A_{crack}} \right) \right]}{\left[\exp \left(\frac{Q_s L_{crack}}{D_{crack} A_{crack}} \right) + \frac{D_{eff} A_B}{Q_b L_T} + \left(\frac{D_{eff} A_B}{Q_s L_T} \right) \left[\exp \left(\frac{Q_s L_{crack}}{D_{crack} A_{crack}} \right) - 1 \right] \right]}$$

Where: α is the steady-state attenuation coefficient between soil and indoor air, dimensionless
 D_{eff} is the effective diffusion coefficient for unsaturated soils, $\text{cm}^2 \text{s}^{-1}$
 A_B is the area of enclosed floor and walls below ground, cm^2
 Q_b is the building ventilation rate, $\text{cm}^3 \text{s}^{-1}$
 L_T is the source-building separation, cm
 Q_s is the volumetric flow rate of soil gas into the enclosed space, $\text{cm}^3 \text{s}^{-1}$ [25 to 150]
 L_{crack} is the foundation slab thickness, cm
 A_{crack} is the floor crack area, cm^2
 D_{crack} is the effective diffusion coefficient through the cracks, $\text{cm}^2 \text{s}^{-1}$ [= D_{eff}]
 Note: Appendix 1, Equation A10 where the Peclet number approaches infinity

However, it is considered that the full method of calculating the attenuation factor as outlined above is not practical from a site investigation standpoint as there are too many variables that would be impractical or too costly to measure, and if assumed would not necessarily provide an adequate level of conservatism.

A more simple and suitably conservative determination of attenuation factor can be provided by Johnson (2002)^[5], in which the output of the model was found to be dependent on only three parameters. The relationship between these three parameters within the output of the model varies depending on the relative dominance of advection vs diffusion as the rate limiting process for VOC migrating from soil gas to indoor air. In the most conservative of the identified scenarios, where advection is both the dominant mechanism across foundations and is the overall rate-limiting factor, the attenuation factor was shown to be roughly equivalent to the parameter C. This scenario is considered the most conservative as VOC migration via advection occurs at a quicker rate than via diffusion, parameter C can be calculated as below:

$$C = \left[\frac{Q_{soil}}{Q_B} \right]$$

Where: Q_B is the building ventilation rate ($\text{cm}^3 \text{s}^{-1}$)
 Q_{soil} is the soil gas flow into building ($\text{cm}^3 \text{s}^{-1}$)

For this calculation, worst-case Q_{soil} values can be obtained from *Updated technical background to the CLEA model (SR3), 2009, (section 10.3)^[4]*, these are provided as $25 \text{ cm}^3 \text{s}^{-1}$ and $150 \text{ cm}^3 \text{s}^{-1}$ respectively for residential and commercial land-use scenarios. Further to this, SR3 section 10.3, equation 10.5 ref provides a calculation for Q_B which is outlined overleaf:

$$Q_b = (H \times A_{foot} \times Ex) \times 1000000 \text{ cm}^3 \text{ m}^{-3} \times \frac{1}{3600} \text{ s hr}^{-1}$$

Where: Q_b is the building ventilation rate, $\text{cm}^3 \text{ s}^{-1}$
 H is height of living space, m
 A_{foot} is the building footprint, m^2
 Ex is the building air exchange rate, hour^{-1}

The height and area used in this calculation can either be directly taken from existing or proposed development plans for the relevant site, or from a number of example scenarios provided within SR3, Tables 3.3, 3.10 and 4.21^[4]. The values for the Air Exchange Rate can be taken from SR3, Tables 3.3 and 3.10^[4].

Once the attenuation factor (α) is known, the equation below is used to calculate vGAC from any applicable inhalation Health Criteria Value (HCV), the HCV is required to be presented in units of mg/m^3 .

$$vGAC = HCV / \alpha$$

The standard set of HCVs used by Ground and Water Limited have been calculated based on the data provided in the following sources: *LQM S4UL (2015)*^[5], *CLEA1.071 Software*^[6] and *CLAIRE GAC (2010)*^[7]. Within these sources the inhalation HCVs are listed in units of $\mu\text{g}/\text{kg}/\text{day}$, this represents the amount of contaminant that is inhaled per kg of body weight per day by the critical receptor. To be used in the calculation for vGAC these values need to be converted into mg/m^3 , the process for this conversion is outlined below.

$$HCV = \frac{HCV_{source} \times Bw}{V_{inh}} \div 1000$$

Where: HCV is the calculated Health Criteria Value for the critical receptor (mg/m^3)
 HCV_{source} is the Health Criteria Value taken from the source material ($\mu\text{g}/\text{kg}/\text{day}$)
 Bw is the critical receptors body weight (kg)
 V_{inh} is the daily inhalation rate for the critical receptor (m^3/day)

For calculation of the HCVs two critical receptor scenarios have been considered; residential and commercial, the inputs used for these two scenarios are outlined below, inhalation rates and weight for the critical receptors have been taken from Table 3.2 of SP1010^[9] and Table 4.6 of SR3^[4] respectively:

Residential

- The critical receptor for this scenario is a female child, age classes 1 – 6 (0 – 6 years old).
- The average weight of the critical receptor is 13.3kg.
- The average inhalation rate of the critical receptor is $11.85 \text{ m}^3/\text{day}$.

Commercial

- The critical receptor for this scenario is a female adult of age class 17 (16 – 65 years old).
- The average weight of the critical receptor is 70kg.
- The average inhalation rate of the critical receptor is $15.7 \text{ m}^3/\text{day}$.

An exception to the above method of calculating the HCV had to be made for two determinands, these were 1,1-dichloroethane and cis-1,2-dichloroethene. This exception was made due to there being no available inhalation pathway HCV for these determinands within the available source material. Instead, the HCVs for the oral pathway from the *CL:AIRE GACs (2010)*^[8] was used, this is considered to be suitable conservative, and the most appropriate approach based on the data/resources available at the time of writing.

Limitations and Assumptions

The following assumptions have been made in development of the vGACs:

- The source of the VOCs is directly beneath the building foundations.
- The movement of VOCs from soil gas to indoor air is controlled by advection and diffusion has a negligible effect on the change in VOC concentration.

The following limitations in this methodology were considered worth highlighting:

- The vGAC are only relevant for contaminants where the indoor inhalation pathway is the dominant exposure pathway.
- The vGAC are only to be used for comparison against onsite measurements of VOC concentration within soil gas.
- The vGAC may not be suitably conservative in a situation where there are high rates of flow measured from ground-gas monitoring.
- The methodology for calculating vGAC does not factor in vapour intrusion/migration along drainage pipes.
- Biodegradation of the VOCs is not factored into the methodology.

Despite these limitations/assumptions it is considered by Ground and Water Limited that the methodology presented herein provides an adequately conservative and appropriate approach for assessing the risk of VOCs onsite.

References

1. Baker, K, Hayward, H, Potter, L, Bradley, D & MacLeod, C. (2009). *The VOCs Handbook. Investigating, assessing and managing risks of inhalation of VOC on land affected by contamination*. CIRIA C682 (London).
2. Johnson P.C. & Ettinger R.A. (1991). *Heuristic model for the intrusion rate of contaminant vapors into buildings*. Environmental Science & Technology, 25(8); 1445–1452.
3. Evans, D, Hers, I, Wolters, R. M, Boddington, R. T. B. & Hall, D. H. (2002) *Vapour transfer of soil contaminants*. R&D Technical Report P5-018/TR, Environment Agency (Bristol).
4. Jeffries, J. & Martin, I. (2009). *Updated technical background to the CLEA model*. Science Report – SC050021/SR3. Environment Agency (Bristol).
5. Johnson P.C. (2002). *Identification of critical parameters for the Johnson & Ettinger (1991) vapour intrusion model*. American Petroleum Institute.
6. Nathania, C. P, McCaffrey, C, Gillet, A. G, Ogden, R. C. and Nathania, J. F. (2015), *The LQM/CIEH S4ULs for Human Health Risk Assessment*. Land Quality Press (Nottingham).
7. Environment Agency (2015). CLEA Software version 1.071. Accessed at [Contaminated land exposure assessment \(CLEA\) tool - GOV.UK \(www.gov.uk\)](http://www.gov.uk/government/uploads/system/uploads/attachment_data/file/444444/Contaminated_land_exposure_assessment_(CLEA)_tool_-_GOV.UK_(www.gov.uk).pdf)
8. CL:AIRE (2010). *Soil Generic Assessment Criteria for Human Health Risk Assessment*. CL:AIRE (London).
9. CL:AIRE (2014). *SP1010 - Development of Category 4 Screening Levels for Assessment of Land Affected by Contamination, Revision 2*. DEFRA research project.

APPENDIX M:

Vapour

Assessment

Criteria

Table 4 - Vapour Generic Assessment Criteria (Commercial)

Determinand	Commercial vGACs (mg/m3)					
	Warehouse (pre-1970)	Warehouse (post-1970)	Office (pre-1970)	Office (post-1970)	Service Station	Site Specific (Commercial)
TPH_Aliph EC5-EC6	70619	140827	53933	98893	2993	7358
TPH_Aliph >EC6-EC8	70619	140827	53933	98893	2993	7358
TPH_Aliph >EC8-EC10	4096	8168	3128	5736	174	427
TPH_Aliph >EC10-EC12	4096	8168	3128	5736	174	427
TPH_Aliph >EC12-EC16	4096	8168	3128	5736	174	427
TPH_Arom >EC5-EC7	21260	42396	16237	29772	901	2215
TPH_Arom >EC7-EC8	22747	45361	17372	31854	964	2370
TPH_Arom >EC8-EC10	847	1690	647	1187	35.9	88.3
TPH_Arom >EC10-EC12	847	1690	647	1187	35.9	88.3
TPH_Arom >EC12-EC16	847	1690	647	1187	35.9	88.3
Acenaphthene	847	1690	647	1187	35.9	88.3
Acenaphthylene	847	1690	647	1187	35.9	88.3
Acetonitrile	755	1506	577	1057	32.0	78.7
Difluorochloromethane	629200	1254733	480533	881111	26667	65556
Chloroethane	40352	80468	30817	56507	1710	4204
Chloromethane	72.6	145	55.4	102	3.08	7.56
1,2-Dichlorotetrafluoroethane	7000*	7000*	7000*	7000*	7000*	7000*
Dichlorodifluoromethane	1258	2509	961	1762	53.3	131
Vinyl Chloride	404	806	308	566	17.1	42.1
Bromomethane	50.3	100	38.4	70.5	2.13	5.24
Isobutene						
Acetone + Propanal	101	201	76.9	141	4.27	10.5
1,3-Butadiene	25.2	50.2	19.2	35.2	1.07	2.62
1,1-Dichloroethene	805	1605	615	1127	34.1	83.9
Iodomethane	10*	10*	10*	10*	10*	10*
Trichlorofluoromethane	5600*	5600*	5600*	5600*	5600*	5600*
Acrolein	0.252	0.502	0.192	0.352	0.0107	0.0262
Methylene Chloride (Dichloromethane)	1897	3783	1449	2656	80.4	198
Isoprene						
Pentane	12584	25095	9611	17622	533	1311
trans-1,2-Dichloroethene	240	479	183	336	10.2	25.0
Trichlorotrifluoroethane	62920	125473	48053	88111	2667	6556
Carbon Disulfide	404	806	308	566	17.1	42.1
Methylacrolein						
Vinyl Acetate	2517	5019	1922	3524	107	262
1-Propanol	500*	500*	500*	500*	500*	500*
Benzene	19.8	39.4	15.1	27.7	0.838	2.06
cis-1,2-Dichloroethene	84.7	169	64.7	119	3.59	8.83
1,1-Dichloroethane	2825	5633	2157	3956	120	294
MTBE	10197	20335	7788	14280	432	1062
Butanal	51085	101872	39015	71538	2165	5322
Trichloromethane (chloroform)	565	1127	431	791	23.9	58.9
2-Butanone (MEK)	62920	125473	48053	88111	2667	6556
Cyclohexane	75504	150568	57664	105733	3200	7867
Hexane	8809	17566	6727	12336	373	918
1,2-Dichloroethane	1.69	3.38	1.29	2.37	0.0718	0.177
Carbon Tetrachloride	46.0	91.8	35.2	64.5	1.95	4.80
1,1,1-Trichloroethane	8474	16899	6472	11867	359	883
4-Methyl-2-pentanone	37752	75284	28832	52867	1600	3933
Trichloroethene	8.05	16.1	6.15	11.3	0.341	0.839
Bromoform	282	563	216	396	12.0	29.4
Pentanal						
cis-1,3-Dichloropropene	252	502	192	352	10.7	26.2
1,2-Dichloropropane	16.1	32.1	12.3	22.5	0.682	1.68
trans-1,3-Dichloropropene	252	502	192	352	10.7	26.2
Bromodichloromethane	4.24	8.45	3.24	5.93	0.180	0.441
Hexanal						
Toluene	19773	39431	15101	27690	838	2060
m/p-Xylene	847	1690	647	1187	35.9	88.3
1,1,2-Trichloroethane	68.5	137	52.3	95.9	2.90	7.14
Ethylbenzene	1049	2093	801	1470	44.5	109
1,2-Dibromoethane	113	226	86.5	159	4.80	11.8
Tetrachloroethene	805	1605	615	1127	34.1	83.9
Chlorobenzene	114	228	87.4	160	4.85	11.9
1,2,4-Trimethylbenzene	28.2	56.3	21.6	39.6	1.20	2.94
1,3,5-Trimethylbenzene	755	1506	577	1057	32.0	78.7
Styrene	3390	6760	2589	4747	144	353
o-Xylene	847	1690	647	1187	35.9	88.3
1,1,2,2-Tetrachloroethane	81.9	163	62.6	115	3.47	8.53
1,2-Dichlorobenzene	607	1211	464	850	25.7	63.3
1,2,3-Trimethylbenzene	755	1506	577	1057	32.0	78.7
Benzyl Chloride	12.6	25.1	9.61	17.6	0.533	1.31
1,2,4-Trichlorobenzene	32.5	64.8	24.8	45.5	1.38	3.38
1,4-Dichlorobenzene	1695	3380	1294	2373	71.8	177
1,4-Dioxane	378	753	288	529	16.0	39.3
Naphthalene	12.1	24.2	9.28	17.0	0.515	1.27
Hexachlorobutadiene	0.24*	0.24*	0.24*	0.24*	0.24*	0.24*
2-Pentanone	530*	530*	530*	530*	530*	530*
3-Pentanone	705*	705*	705*	705*	705*	705*
3-Hexanone						
2-Hexanone	378	753	288	529	16.0	39.3

Notes

* The National Institute for Occupational Safety and Health (NIOSH) limits, given the absence of available toxicological data.