

Attachment 3: Land sampling and analysis

Parameter monitored	Standard methodology used (EN or ISO standards preferred)	Detection limit (include units)	Is this company accredited for this test?
Sampling	UNICHIM Manual No. 196/2 2004 (only paragraph No. 5 and 6)	/	Yes
<i>Chemical Parameters</i>			
<i>*Metals</i>			
Antimony	UNI EN ISO 13657:2004 + APAT CNR IRSA 3020 Man 29 2003	0,1mg/kg	Yes
Arsenic	UNI EN ISO 13657:2004 + APAT CNR IRSA 3020 Man 29 2003	0,1mg/kg	Yes
Beryllium	UNI EN ISO 13657:2004 + APAT CNR IRSA 3020 Man 29 2003	0,1mg/kg	Yes
Cadmium	UNI EN ISO 13657:2004 + APAT CNR IRSA 3020 Man 29 2003	0,1mg/kg	Yes
Cobalt	UNI EN ISO 13657:2004 + APAT CNR IRSA 3020 Man 29 2003	0,1mg/kg	Yes
Chromium	UNI EN ISO 13657:2004 + APAT CNR IRSA 3020 Man 29 2003	0,1mg/kg	Yes
Hexavalent chromium (VI)	EPA 3060A 1996 + EPA 7196A 1992	0,1mg/kg	Yes
Mercury	EPA 3051A 2007 + EPA 6010D 2014	0,1mg/kg	Yes
Nickel	UNI EN ISO 13657:2004 + APAT CNR IRSA 3020 Man 29 2003	0,1mg/kg	Yes
Lead	UNI EN ISO 13657:2004 + APAT CNR IRSA 3020 Man 29 2003	0,1mg/kg	Yes
Copper	UNI EN ISO 13657:2004 + APAT CNR IRSA 3020 Man 29 2003	0,1mg/kg	Yes
Selenium	UNI EN ISO 13657:2004 + APAT CNR IRSA 3020 Man 29 2003	0,1mg/kg	Yes
Thallium	UNI EN ISO 13657:2004 + APAT CNR IRSA 3020 Man 29 2003	0,1mg/kg	Yes
Vanadium	UNI EN ISO 13657:2004 + APAT CNR IRSA 3020 Man 29 2003	0,1mg/kg	Yes
Zinc	UNI EN ISO 13657:2004 + APAT CNR IRSA 3020 Man 29 2003	0,1mg/kg	Yes

Cyanides	EPA 9010C 2004 + EPA 9013A 2004 + EPA 9014 1996	0,1mg/kg	Yes
Flourides	CNR IRSA 14 Q 64 Vol 3 1996	0,1mg/kg	Yes
*Organic Aromatic Compounds			
Benzene	EPA 5035A 2002 + EPA 8260C 2006	0,01mg/kg	Yes
Ethylbenzene	EPA 5035A 2002 + EPA 8260C 2006	0,01mg/kg	Yes
Styrene	EPA 5035A 2002 + EPA 8260C 2006	0,01mg/kg	Yes
Toluene	EPA 5035A 2002 + EPA 8260C 2006	0,01mg/kg	Yes
Xylenes	EPA 5035A 2002 + EPA 8260C 2006	0,01mg/kg	Yes
BTEX (Total Organic Aromatic Compounds)	EPA 5035A 2002 + EPA 8260C 2006	0,01mg/kg	Yes
*PAHS	-		
Benzo (a) anthracene	EPA 3541 1994 + EPA 3630C 1996 + EPA 8270D 2014	0,01mg/kg	Yes
Benzo (a) pyrene	EPA 3541 1994 + EPA 3630C 1996 + EPA 8270D 2014	0,01mg/kg	Yes
Benzo (b) fluoranthene	EPA 3541 1994 + EPA 3630C 1996 + EPA 8270D 2014	0,01mg/kg	Yes
Benzo (k) fluoranthene	EPA 3541 1994 + EPA 3630C 1996 + EPA 8270D 2014	0,01mg/kg	Yes
Benzo (g, h, i) perylene	EPA 3541 1994 + EPA 3630C 1996 + EPA 8270D 2014	0,01mg/kg	Yes
Chrysene	EPA 3541 1994 + EPA 3630C 1996 + EPA 8270D 2014	0,01mg/kg	Yes
Dibenzo (a,e) pyrene	EPA 3541 1994 + EPA 3630C 1996 + EPA 8270D 2014	0,01mg/kg	Yes
Dibenzo (a,l) pyrene	EPA 3541 1994 + EPA 3630C 1996 + EPA 8270D 2014	0,01mg/kg	Yes
Dibenzo (a,i) pyrene	EPA 3541 1994 + EPA 3630C 1996 + EPA 8270D 2014	0,01mg/kg	Yes
Dibenzo(a,h)pyrene	EPA 3541 1994 + EPA 3630C 1996 + EPA 8270D 2014	0,01mg/kg	Yes
Dibenzo (a, h) anthracene	EPA 3541 1994 + EPA 3630C 1996 + EPA 8270D 2014	0,01mg/kg	Yes
Indeno (1,2,3-c,d) pyrene	EPA 3541 1994 + EPA 3630C 1996 + EPA 8270D 2014	0,01mg/kg	Yes
Pyrene	EPA 3541 1994 + EPA 3630C 1996 + EPA 8270D 2014	0,01mg/kg	Yes
PAHs	EPA 3541 1994 + EPA 3630C 1996 + EPA 8270D 2014	0,01mg/kg	Yes
*Carcinogenic Chlorinated Aliphatic Compounds			
Chloromethane	EPA 5035A 2002 + EPA 8260C 2006	0,01mg/kg	Yes
Dichloromethane	EPA 5035A 2002 + EPA 8260C 2006	0,01mg/kg	Yes

Trichloromethane	EPA 5035A 2002 + EPA 8260C 2006	0,01mg/kg	Yes
Vinyl chloride	EPA 5035A 2002 + EPA 8260C 2006	0,001mg/kg	Yes
1,2-Dichloroethane	EPA 5035A 2002 + EPA 8260C 2006	0,01mg/kg	Yes
1,1-Dichloroethylene	EPA 5035A 2002 + EPA 8260C 2006	0,01mg/kg	Yes
Trichloroethylene	EPA 5035A 2002 + EPA 8260C 2006	0,01mg/kg	Yes
Tetrachloroethylene	EPA 5035A 2002 + EPA 8260C 2006	0,01mg/kg	Yes
*Non-Carcinogenic *Chlorinated Aliphatic Compounds			
1,1-Dichloroethane	EPA 5035A 2002 + EPA 8260C 2006	0,01mg/kg	Yes
1,2-Dichloroethylene	EPA 5035A 2002 + EPA 8260C 2006	0,01mg/kg	Yes
1,1,1-Trichloroethane	EPA 5035A 2002 + EPA 8260C 2006	0,01mg/kg	Yes
1,2-Dichloropropane	EPA 5021A 2014 + EPA 8260C 2006	0,01mg/kg	Yes
1,1,2-Trichloroethane	EPA 5035A 2002 + EPA 8260C 2006	0,01mg/kg	Yes
1,2,3-trichloropropane	EPA 5035A 2002 + EPA 8260C 2006	0,01mg/kg	Yes
1,1,2,2-tetrachlorine	EPA 5035A 2002 + EPA 8260C 2006	0,01mg/kg	Yes
*Halogenated Aliphatic Compounds			
Tribromomethane (Bromofom)	EPA 5035A 2002 + EPA 8260C 2006	0,01mg/kg	Yes
1,2-Dibromoethane	EPA 5035A 2002 + EPA 8260C 2006	0,001mg/kg	Yes
Dibromochloromethane	EPA 5035A 2002 + EPA 8260C 2006	0,01mg/kg	Yes
Bromodichloromethane	EPA 5035A 2002 + EPA 8260C 2006	0,01mg/kg	Yes
*Nitrobenzene Compound			
Nitrobenzene	EPA 3541 1994 + EPA 3620C 2007 + EPA 8270D 2014	0,05mg/kg	Yes
1,2-dinitrobenzene	EPA 3541 1994 + EPA 3620C 2007 + EPA 8270D 2014	0,05mg/kg	Yes
1,3-dinitrobenzene	EPA 3541 1994 + EPA 3620C 2007 + EPA 8270D 2014	0,05mg/kg	Yes
Chloronitrobenzene	EPA 3541 1994 + EPA 3620C 2007 + EPA 8270D 2014	0,05mg/kg	Yes
*Chlorobenzene Compound			
Monochlorobenzene	EPA 5035A 2002 + EPA 8260C 2006	0,01mg/kg	Yes
1,2-Dichlorobenzene	EPA 5035A 2002 + EPA 8260C 2006	0,01mg/kg	Yes

	2006		
1,4-Dichlorobenzene	EPA 5035A 2002 + EPA 8260C 2006	0,01mg/kg	Yes
1,2,4-Trichlorobenzene	EPA 3541 1994 + EPA 3620C 2007 + EPA 8270D 2014	0,01mg/kg	Yes
1,2,4,5-Tetrachlorobenzene	EPA 3541 1994 + EPA 3620C 2007 + EPA 8270D 2014	0,01mg/kg	Yes
Pentachlorobenzene	EPA 3541 1994 + EPA 3620C 2007 + EPA 8270D 2014	0,01mg/kg	Yes
Hexachlorobenzene	EPA 3541 1994 + EPA 3630C 1996 + EPA 8081B 2007	0,001mg/kg	Yes
*Non-Chlorinated Phenols			
Methylphenol (o, m, p)	EPA 3541 1994 + EPA 3630C 1996 + EPA 8270D 2014	0,01mg/kg	Yes
Phenol	EPA 3541 1994 + EPA 3630C 1996 + EPA 8270D 2014	0,01mg/kg	Yes
*Chlorophenols			
2-chlorophenol	EPA 3541 1994 + EPA 3630C 1996 + EPA 8270D 2014	0,01mg/kg	Yes
2,4-dichlorophenol	EPA 3541 1994 + EPA 3630C 1996 + EPA 8270D 2014	0,01mg/kg	Yes
2,4,6-Trichlorophenol	EPA 3541 1994 + EPA 3630C 1996 + EPA 8270D 2014	0,001mg/kg	Yes
Pentachlorophenol	EPA 3541 1994 + EPA 3630C 1996 + EPA 8270D 2014	0,001mg/kg	Yes
*Aromatic Amines			
Aniline	EPA 3541 1994 + EPA 3620C 2007 + EPA 8270D 2014	0,01mg/kg	Yes
o-Anisidine	EPA 3541 1994 + EPA 3620C 2007 + EPA 8270D 2014	0,01mg/kg	Yes
m, p-Anisidine	EPA 3541 1994 + EPA 3620C 2007 + EPA 8270D 2014	0,01mg/kg	Yes
Diphenylamine	EPA 3541 1994 + EPA 3620C 2007 + EPA 8270D 2014	0,01mg/kg	Yes
p-Toluidine	EPA 3541 1994 + EPA 3620C 2007 + EPA 8270D 2014	0,01mg/kg	Yes
Summation aromatic amines	EPA 3541 1994 + EPA 3620C 2007 + EPA 8270D 2014	0,01mg/kg	Yes
*Phytopharmaceuticals			
Alachlor	EPA 3541 1994 + EPA 3630C 1996 + EPA 8081B 2007	0,001mg/kg	Yes
Aldrin	EPA 3541 1994 + EPA 3630C 1996 + EPA 8081B 2007	0,001mg/kg	Yes
Atrazine	EPA 3541 1994 + EPA 3630C 1996 + EPA 8270D 2014	0,001mg/kg	Yes
alpha-hexachlorocyclohexane	EPA 3541 1994 + EPA 3630C 1996 + EPA 8081B 2007	0,001mg/kg	Yes
beta-hexachlorocyclohexane	EPA 3541 1994 + EPA 3630C 1996 + EPA 8081B 2007	0,001mg/kg	Yes
gamma-hexachlorocyclohexane	EPA 3541 1994 + EPA 3630C 1996 + EPA 8081B 2007	0,001mg/kg	Yes
Chlordane	EPA 3541 1994 + EPA 3630C	0,001mg/kg	Yes

	1996 + EPA 8081B 2007		
DDD, DDT, DDE	EPA 3541 1994 + EPA 3630C 1996 + EPA 8081B 2007	0,001mg/kg	Yes
Dieldrin	EPA 3541 1994 + EPA 3630C 1996 + EPA 8081B 2007	0,001mg/kg	Yes
Endrin	EPA 3541 1994 + EPA 3630C 1996 + EPA 8081B 2007	0,001mg/kg	Yes
Hydrocarbons			
Light hydrocarbons C <12	EPA 5021A 2014 + EPA 8015D 2003	0,1mg/kg	Yes
Heavy hydrocarbons C >12 (C12-C40)	EPA 3541 1994 + EPA 3620C 2007 + EPA 8015D 2003	1mg/kg	Yes
ORGANOTINS SUBSTANCES			
Organotin Substances	UNI EN ISO 23161:2011	0,01mg/Kg Sn	Yes
OTHER SUBSTANCES			
PCB	EPA 3541 1994 + EPA 3630C 1996 + EPA 8082A 2007	0,005mg/kg	Yes
Asbestos IR	DM 06/09/1994 SO n°129 GU n°220 20/09/1994 + DGR 12/02/2008 n°8/677 BURL n°73 08/04/2008 I° suppl. straordinario	1000mg/kg	Yes
Esters of phthalic	EPA 3541 1994 + EPA 3620C 2007 + EPA 8270D 2014	0,01mg/kg	Yes
*Dioxins and Furans			
Summation PCDD + PCDF I-TEQ (WHO)	EPA 3545A 2007 + EPA 1613B 1994 + UNEP/POPS/COP.3/I NF/27 11/04/2007 WHO 2005 TEF	0,1ng/Kg	Yes

*subcontracted